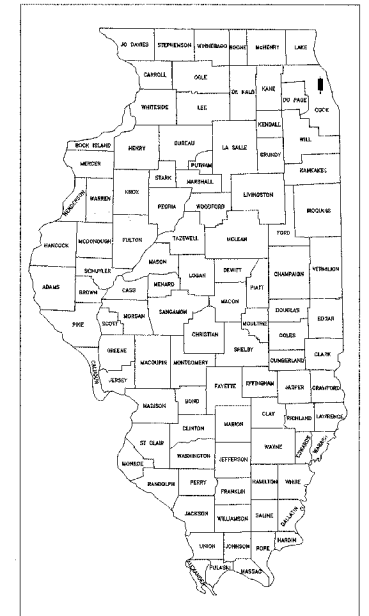


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	1
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR
PROPOSED FEDERAL AID PROJECT
STPM PROJECT
FAU 2732 PRAIRIE AVENUE
BROOKFIELD AVENUE TO WASHINGTON AVENUE
VILLAGE OF BROOKFIELD
SECTION 00-00115-01-WR
RESURFACING AND RECONSTRUCTION
PROJECT M-8003(712)
COOK COUNTY
C- 91-062-07

FOR INDEX OF SHEETS SEE SHEET NO. 2



LOCATION OF SECTION INDICATED THUS:

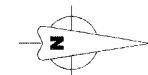
TRAFFIC DATA

2030 ADT = 6,000
 POSTED SPEED LIMIT: 30 MPH
 DESIGN SPEED LIMIT: 30 MPH

PROJECT LOCATED IN THE VILLAGE OF BROOKFIELD

PROJECT BEGINS STATION 4+65 PRAIRIE AVENUE

LOCATION MAP
 TOWNSHIP 39 NORTH, RANGE 12 EAST, SECTION 34



0 10' 20' 30' SCALE: 1" = 10'

0 50' 100' SCALE: 1" = 50'

0 50' 100' SCALE: 1" = 40'

0 50' 100' SCALE: 1" = 30'

0 50' 100' SCALE: 1" = 20'

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. 83881

PROJECT BEGINS STATION 1+17 LINCOLN AVENUE

PROJECT BEGINS STATION 0+60 FOREST AVENUE

PROJECT ENDS STATION 3+66 LINCOLN AVENUE

PROJECT ENDS STATION 23+25 PRAIRIE AVENUE

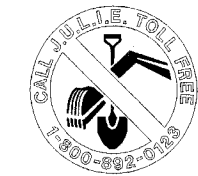
PROJECT ENDS STATION 7+95 FOREST AVENUE

PROVISO TOWNSHIP

- AREA OF IMPROVEMENT

GROSS AND NET LENGTH OF PROJECT = 2,844 FT. = 0.5386 MI.

WARNING



CALL BEFORE YOU DIG

Derek S. Treichel



DATE SIGNED: 10-09-06
 LICENSE EXPIRES: 11-30-07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DEPARTMENT OF HIGHWAYS

APPROVED: *October 9 2006*
Christopher Holt
 VILLAGE OF BROOKFIELD, PRESIDENT

PASSED: *October 31 2006*
Christopher Holt
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: *November 1 2006*
Diane O'Keefe
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

(PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS)

E.H.E. NO. 125-04-26301

FEDERAL AID DESIGN ENGINEER: ABIGAIL WILGREEN (847)705-4233
 CONSULTANT: EDWIN HANCOCK ENGINEERING COMPANY
 9933 ROOSEVELT ROAD PHONE: (708)865-0300
 WESTCHESTER, ILLINOIS 60154

INDEX OF SHEETS

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3	GENERAL NOTES
4-5	SUMMARY OF QUANTITIES
6-7	TYPICAL CROSS SECTIONS
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10-17	PLAN AND PROFILE
18	ROADWAY DETAILS
19-27	DRAINAGE AND UTILITIES
29-32	DRAINAGE AND UTILITIES DETAILS
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36	ASPHALT AND LANDSCAPING PLAN
37	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
38	TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS, AND DRIVEWAYS
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BM-4	WEST-NORTHWEST FLANGE BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF FOREST AVENUE AND WASHINGTON AVENUE.	617.39
BM-5	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF PRAIRIE AVENUE AND WASHINGTON AVENUE.	617.51
BM-21	NORTH-NORTHEAST BONNET BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF BROOKFIELD AVENUE AND PRAIRIE AVENUE (NORTH SIDE OF RR TRACKS)	620.49
TBM-5	WEST-NORTHWEST BONNET BOLT ON FIRE HYDRANT IN FRONT OF 3522 PRAIRIE AVENUE.	619.78
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TBM-3	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT IN FRONT OF 3624 PRAIRIE AVENUE.	619.40
TBM-2	NORTH BONNET BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF GRANT AVENUE AND PRAIRIE AVENUE.	620.32
TBM-1	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT IN FRONT OF 3724 PRAIRIE AVENUE.	621.12

LEGEND OF SYMBOLS

(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-04)

SYMBOL	DESCRIPTION
	EXISTING POWER POLE
	EXISTING GAS VALVE
	EXISTING STREET LIGHT
	EXISTING WATER MAIN BUFFALO BOX
	EXISTING SPRINKLER
	EXISTING WATER MAIN VALVE VAULT
	EXISTING BUSH
	EXISTING TREE
	EXISTING EVERGREEN TREE
	EXISTING BITUMINOUS CONCRETE AREA
	EXISTING CONCRETE AREA
	EXISTING GRASS AREA
	EXISTING STONE OR GRAVEL AREA
	EXISTING STORM SEWER
	EXISTING COMBINATION SEWER
	EXISTING ELECTRIC LINE
	EXISTING GAS LINE
	EXISTING TELEPHONE LINE
	EXISTING WATER MAIN
	EXISTING CURB AND GUTTER
	EXISTING RIGHT OF WAY
	EXISTING STRUCTURE TO BE REMOVED
	EXISTING STORM SEWER TO BE ABANDONED
	EXISTING WATER MAIN TO BE ABANDONED
	EXISTING CURB AND GUTTER TO BE REMOVED
	BITUMINOUS SURFACE TO BE REMOVED
	EXISTING BITUMINOUS AREA TO BE REMOVED
	EXISTING CONCRETE AREA TO BE REMOVED
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED COMBINATION SEWER
	PROPOSED WATER MAIN
	PROPOSED DIRECTION OF FLOW
	PROPOSED SUMMIT
	PROPOSED BITUMINOUS CONCRETE PARKWAY
	PROPOSED CONCRETE AREA
	PROPOSED GRASS AREA
	PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

I.D.O.T. STANDARD DRAWINGS

STANDARD NO.	TITLE OR DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-03	TEMPORARY EROSION CONTROL SYSTEMS
353001-03	PCC BASE COURSE WITH HOT-MIX ASPHALT (HMA) BINDER AND SURFACE COURSE
424001-04	CURB RAMPS FOR SIDEWALKS
442101-06	CLASS B PATCHES
542106-01	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERT 42" THRU 60" DIA. AT RIGHT ANGLES WITH ROADWAY
602421	MANHOLE, TYPE A, 2.7 M (9') DIAMETER
602601-01	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
701501-03	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-03	LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
702001-06	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS FOR SIGNS, MARKERS, AND DELINEATORS
729001	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS)
780001-01	TYPICAL PAVEMENT MARKINGS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	3
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				

ACCESS

THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN ACCESS FOR EMERGENCY VEHICLES TO INGRESS AND EGRESS ONTO PRIVATE & COMMERCIAL PROPERTY DURING THE CONSTRUCTION PERIOD. ALSO DURING CONSTRUCTION, GARBAGE TRUCKS MUST BE PERMITTED ACCESS TO THE WORK ZONE IN ORDER TO PICK UP RESIDENTIAL AND COMMERCIAL GARBAGE FOR THOSE PROPERTIES FRONTING THE WORK ZONE.

STANDARDS

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE DEPARTMENT AS SHOWN ON THE INDEX OF SHEETS IN THE PLANS.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD SURVEYS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THE DATA IS ESSENTIALLY CORRECT, BUT THE VILLAGE OF BROOKFIELD, THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND/OR OTHER OFFICES AND AGENCIES ASSOCIATED WITH THE DEVELOPMENT OF THESE PLANS DO NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR WILL BE REQUIRED TO VERIFY THE EXACT LOCATION OF EACH FACILITY WITH THE UTILITY COMPANY, AND SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

ADJUSTMENTS REQUIRED BY UTILITY COMPANIES WILL BE PERFORMED BY THE COMPANY INVOLVED OR ITS CONTRACTOR.

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRE-CONSTRUCTION CONFERENCE.

THE CONTRACTOR SHALL USE EXTREME CAUTION IN THE REMOVAL OF ABANDONED EXISTING GAS LINES SINCE RESIDUAL MATERIALS CONTAINED THEREIN ARE HIGHLY EXPLOSIVE, FLAMMABLE, AND TOXIC. ONCE THE MAINS ARE ABANDONED BY THE OWNER, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DAMAGE AND/OR INJURY OCCURRING ON THE PROJECT DUE TO HIS OPERATIONS NEXT TO THE MAINS AND/OR THE METHOD OF REMOVAL OF THE ABANDONED MAINS. UNDER NO CIRCUMSTANCE SHALL THE UTILITY COMPANIES BE HELD LIABLE FOR ANY DAMAGE AND/OR INJURY ONCE THEIR MAINS HAVE BEEN RELOCATED AND THE EXISTING ABANDONED.

STORM SEWER

THE VERTICAL AND HORIZONTAL CLEARANCES BETWEEN WATER MAINS AND PROPOSED OR EXISTING STORM SEWERS SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 41-1.02A THROUGH 41-1.02D OF THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS".

FRAMES AND GRATES

THE TYPE OF FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLES LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 604.01 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE.

ON ALL IMPROVEMENTS, THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES, AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF BROOKFIELD AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF BROOKFIELD PUBLIC WORKS YARD LOCATED AT 4545 EBERLY AVENUE.

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES FLOWS THROUGH EXISTING STORM AND SANITARY SEWER SYSTEMS. HE SHALL ALSO PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT IF NECESSARY AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER COLLECTED IN A SAFE MANNER WITHOUT DAMAGE OF ANY KIND TO ADJACENT PROPERTIES. THE ENDS OF EXISTING DRAINAGE LINES WHICH ARE NOT TO BE INCORPORATED INTO THE PROJECT ARE TO BE SEALED AS SPECIFIED IN THE SPECIAL PROVISIONS. THE COST OF ALL THE PREVIOUSLY MENTIONED WORK SHALL BE INCLUDED IN THE CONTRACT. ALL ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS AS WELL AS MATERIAL EXISTING BEFORE CONSTRUCTION, SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.

EXISTING STRUCTURE MODIFICATIONS

ALL KNOWN EXISTING STRUCTURES IN THE PAVEMENT OR ADJACENT AREAS WHICH ARE INVOLVED IN THE CONSTRUCTION HAVE BEEN SHOWN ON THE PLANS AND NOTED AS TO BE REMOVED, FILLED, RECONSTRUCTED, OR ADJUSTED BY THE CONTRACTOR EXCEPT THOSE OF AMERITECH, COMED, AND THE NICOR GAS COMPANY, WHICH ARE TO BE ADJUSTED BY THE APPROPRIATE UTILITY FORCE. WHERE EXISTING STRUCTURES ARE TO BE REMOVED OR FILLED, OR THE EXISTING CASTING REPLACED, THE CASTINGS REMOVED FROM THE STRUCTURE BECOME THE PROPERTY OF THE VILLAGE OF BROOKFIELD.

SHEETING OR SHORING

IT SHOULD BE NOTED THAT ANY SHEETING OR SHORING REQUIRED FOR THE STORM SEWER INSTALLATION OR OTHER CONSTRUCTION ELEMENTS REQUIRING RELATIVELY DEEP EXCAVATIONS, SHALL BE INCLUDED IN THE PARTICULAR PAYMENT ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY SUPPLEMENTAL WORK ASSOCIATED WITH THE MAINTENANCE OF TRENCH SIDES OR OTHER EXCAVATED AREAS.

MAINTENANCE OF EXISTING DRAINAGE STRUCTURES

WHEN DURING THE CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF ANY GUTTERS OR DRAINAGE STRUCTURE SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE FACILITIES SHALL BE CLEAN AND FREE OF ALL OBSTRUCTIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT.

SAW CUTTING

THE CONTRACTOR SHALL SAW CUT ASPHALT PAVEMENT AND DRIVEWAY PAVEMENT AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, TO SEPARATE THE EXISTING PAVEMENT TO BE REMOVED BY MEANS OF AN APPROVED CONCRETE SAW TO A DEPTH AS DIRECTED BY THE ENGINEER. SUITABLE GUIDELINES OR DEVICES SHALL BE USED TO ASSURE CUTTING A NEAT, STRAIGHT LINE AS SHOWN ON THE PLANS. CARE SHALL BE TAKEN BY THE CONTRACTOR SO AS NOT TO DAMAGE THE REMAINING PAVEMENT DIRECTLY ADJACENT TO THE PAVEMENT TO BE REMOVED. ANY DAMAGE TO THE EXISTING PAVEMENT RESULTING FROM PAVEMENT REMOVAL OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE PRICE OF SAW CUTTING, AS NOTED ABOVE, SHALL BE INCLUDED IN THE PARTICULAR PAY ITEMS.

TRAFFIC PROTECTION

CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT WHEN WORK COMMENCES, THE CONTRACTOR SHALL ASSUME THE MAINTENANCE OF ANY PAVEMENT, SHOULDERS, DRAINAGE FACILITIES, TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND OTHER APPURTENANCES ON ROADWAYS WITHIN THE LIMITS OF THE CONTRACT WHICH ARE TO BE USED BY THE PUBLIC DURING CONSTRUCTION AND TO RETAIN THIS MAINTENANCE RESPONSIBILITY UNTIL THE VILLAGE ASSUMES THE MAINTENANCE. NEED FOR SNOW AND ICE CONTROL DURING THE CONSTRUCTION PERIOD SHALL BE ACCOMMODATED FOR BY OTHERS. ALL UNBALLASTED TYPE I & TYPE II BARRICADES SHALL HAVE TWO SANDBAGS ONE ACROSS EACH BOTTOM RAIL.

EXISTING ROADWAY SIGNS

ALL EXISTING ROADWAY SIGNS, MARKERS, ETC., LOCATED WITHIN THE ROADWAY RIGHT-OF-WAY WHICH ARE INVOLVED IN THIS CONSTRUCTION SHALL BE REMOVED AND DELIVERED TO THE VILLAGE PUBLIC WORKS YARD LOCATED AT 4545 EBERLY AVENUE. ALL WORK ASSOCIATED WITH THIS ITEM SHALL BE CONSIDERED INCLUDED IN THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

SOILS REPORT

A SOILS REPORT HAS BEEN PREPARED CONTAINING CERTAIN INFORMATION RELATING TO GENERAL SOIL CONDITIONS TO BE ENCOUNTERED ALONG THE ROUTE OF THE WORK. THE CONTRACTOR WILL BE PERMITTED TO EXAMINE THIS INFORMATION AND DETERMINE ITS VALUE. ANY ADDITIONAL BORINGS DEEMED NECESSARY BY THE CONTRACTOR SHALL BE MADE AT HIS OWN EXPENSE.

PLUGGING EXISTING SEWERS AND DRAINS

UNLESS OTHERWISE SPECIFIED, ABANDONED SEWERS AND DRAINS, AS DESIGNATED BY THE ENGINEER, SHALL BE PLUGGED WITH CLASS "SI" CONCRETE OR BRICK AND SUITABLE MORTAR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEMS FOR REMOVING AND/OR FILLING THE VARIOUS TYPES OF STRUCTURES.

Drawing file: W:\Projects\12504265 - Profile Ave 2nd Phase\3D Project\Gen-Notes.dwg 04/05/2006 11:22:30am



◆ Civil Engineers
◆ Municipal Consultants
◆ Established 1911

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Westchester, Illinois 60154-2780
Phone: 708/865-0300
Fax: 708/865-1212

**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

GENERAL NOTES

SCALE:	NONE	SHEET 3 OF 47
DRAWN BY:	MK/LEV	
BOOK NO.:	#1475, #1504	
DATE:	10-6-06	
REVISION:	E.H.E. NO.: 125-04-26301	OF

SUMMARY OF QUANTITIES					
CODE	PAY ITEM	UNIT	TOTAL QUANTITY	1000-2A 75% FEDERAL 25% LOCAL	1000-2A 100% LOCAL
* 20100110	TREE REMOVAL (6 TO 15 INCH DIAMETER)	UNIT	12	12	
* 20100210	TREE REMOVAL (OVER 15 INCH DIAMETER)	UNIT	120	120	
* 20101100	TREE TRUNK PROTECTION	EACH	105	105	
* 20101200	TREE ROOT PRUNING	EACH	105	105	
20200100	EARTH EXCAVATION	CUYD	3,245	3145	100
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	CUYD	400	400	
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CUYD	400	400	
20800150	TRENCH BACKFILL	CUYD	3,215	2880	335
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQYD	8,700	8700	
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQYD	4,700	3800	900
* 25000312	SEEDING, CLASS 4A	ACRE	0.1	0.1	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	70	70	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	70	70	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	70	70	
* 25200100	SODDING	SQYD	4,300	3,600	700
* 25200200	SUPPLEMENTAL WATERING	UNIT	100	100	
28000510	INLET FILTERS	EACH	23	19	4
35101800	AGGREGATE BASE COURSE, TYPE B, 6"	SQYD	1,200	1,200	
35102400	AGGREGATE BASE COURSE, TYPE B, 12"	SQYD	7,550	7,550	
35300300	PORTLAND CEMENT CONCRETE BASE COURSE, 8"	SQYD	400	400	
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8"	SQYD	225	12	213
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	2,200	2,200	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	1,700	1,510	190
40600300	AGGREGATE (PRIME COAT)	TON	100	100	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	270	110	160
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	150	70	80
40701801	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"	SQYD	1,200	1,200	
40701861	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"	SQYD	7,500	7,500	
42101300	PROTECTIVE COAT	SQYD	2,500	2,105	395
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQYD	350	258	92
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQYD	50	25	25
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQFT	7,700	7,205	495
42400800	DETECTABLE WARNINGS	SQFT	350	300	50
44000100	PAVEMENT REMOVAL	SQYD	9,200	9,115	85
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQYD	1,850	620	1230
44000200	DRIVEWAY PAVEMENT REMOVAL	SQYD	350	258	92
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	5,600	4,650	950
44000600	SIDEWALK REMOVAL	SQFT	8,200	7,505	695
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	1	1	
55021700	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III, 15"	FOOT	310	310	
55021800	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III, 18"	FOOT	354	354	
55022000	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III, 24"	FOOT	316	316	
55022100	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III, 27"	FOOT	345	345	
55022500	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III, 42"	FOOT	65	65	
55022600	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III, 48"	FOOT	338	338	
55022700	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III, 54"	FOOT	324	324	
* 56103000	DUCTILE IRON WATER MAIN, 6"	FOOT	150	90	60
* 56103100	DUCTILE IRON WATER MAIN, 8"	FOOT	650	25	625
* 56106700	ADJUSTING WATER MAIN, 16"	FOOT	35	35	
* 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2		2
* 56400510	FIRE HYDRANTS TO BE REMOVED AND REPLACED	EACH	4	4	
* 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	5	3	2
60213800	RESTRICTED DEPTH CATCH BASINS, 4' DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	23	19	4
60224600	RESTRICTED DEPTH MANHOLES, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	
60225400	RESTRICTED DEPTH MANHOLES, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3	
* 60248700	VALVE VAULTS, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1
60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	5	5	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2	
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	7	7	
60500040	REMOVING MANHOLES	EACH	9	6	3
60500050	REMOVING CATCH BASINS	EACH	24	20	4

* DENOTES SPECIALTY ITEM

Drawing file: W:\Projects\12504263 - Prairie Ave 2nd Phase\2RD Project\Sum_Quantities.dwg Oct 10, 2006 - 2:17pm



◆ Civil Engineers
◆ Municipal Consultants
◆ Established 1911

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Phone: 708/865-0300
Fax: 708/865-1212

**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

SUMMARY OF QUANTITIES

SCALE:	NONE	SHEET	4 / 47
DRAWN BY:	MK/LEV		
BOOK NO.:	#1475, #1504		
DATE:	10-6-06		
REVISION:	E.H.E. NO.: 125-04-26301	OF	

SUMMARY OF QUANTITIES					
CODE	PAY ITEM	UNIT	TOTAL QUANTITY	1000-2A	
				75% FEDERAL 25% LOCAL	100% LOCAL
60500060	REMOVING INLETS	EACH	21	21	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	5,600	4,650	950
67000400	ENGINEER'S FIELD OFFICE - TYPE A	CALMO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1	
72000100	SIGN PANEL - TYPE 1	SQFT	75	75	
72900100	METAL POST - TYPE A	FOOT	25	25	
72900200	METAL POST - TYPE B	FOOT	160	160	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,700	3,700	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	600	600	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	50	50	
* A2000924	TREE, ACER PLATANOIDES EMERALD QUEEN (EMERALD QUEEN NORWAY MAPLE), 3" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
* A2001724	TREE, ACER SACCHARUM (SUGAR MAPLE), 3" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
* A2005024	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 3" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
* A2008124	TREE, TILIA CORDATA (GREENSPIRE LITTLE LEAF LINDEN), 3" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
* K1003679	MULCH	CUYD	80	80	
X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	23	19	4
X0325207	TELEVISION INSPECTION OF SEWER	FOOT	1,400	1400	
X6020098	MANHOLES, TYPE A, 9' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	2	1
X0104800	CHANGEABLE MESSAGE SIGN	CAL-MO	1	1	
* XX000479	WATER MAIN REMOVAL, 6 INCH	FOOT	370	370	
XX000541	EXPLORATORY EXCAVATION	CUYD	50	50	
XX000836	PRESSURE TESTING AND DISINFECTION	L SUM	1		1
XX001386	SANITARY SEWERS, PVC, 8"	FOOT	180	180	
XX001464	SANITARY SEWERS, PVC, 6"	FOOT	1,000	946	54
XX001466	SANITARY SEWERS, PVC, 12"	FOOT	365	365	
XX001490	GATE VALVES, 8"	EACH	1		1
XX001672	STORM SEWERS, (POLYVINYL CHLORIDE) SDR 26, 12"	FOOT	260	112	147
* XX002907	WATER SERVICE CONNECTION (SHORT)	EACH	10		10
* XX004814	WATER SERVICE CONNECTION (LONG)	EACH	4	1	3
XX003036	STORM SEWERS, PVC, SDR 26, 10"	FOOT	386	336	50
XX003037	DUCTILE IRON FITTINGS AND ACCESSORIES	POUND	1,400	720	680
* XX003516	CONNECTION TO EXISTING WATER MAINS (NON-PRESSURE) - 8"	EACH	1		1
* XX003517	CONNECTION TO EXISTING WATER MAINS (NON-PRESSURE) - 6"	EACH	1		1
XX005197	BOX STRUCTURE	EACH	2	2	
XX005634	12" X 6" PVC SEWER SERVICE CONNECTIONS	EACH	17	14	3
XX005636	PIPE UNDERDRAINS, PERFORATED POLYVINYL CHLORIDE PIPE, 6"	FOOT	138	114	24
XX006203	STORM SEWERS, PVC, SDR 26, 8"	FOOT	25		25
XX006227	RESTRAINED JOINT, 8"	EACH	19	0	19
XX006228	RESTRAINED JOINT, 6"	EACH	40	28	12
XX006445	RESTRICTED DEPTH COMBINED SEWER MANHOLES, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	11	8	3
XX006449	12" PVC COMBINED SEWER PIPE REPLACEMENT	FOOT	131	66	65
XX006450	15" PVC COMBINED SEWER PIPE REPLACEMENT	FOOT	34	34	
XX006452	15" X 6" PVC SEWER SERVICE CONNECTIONS	EACH	6	6	
XX006453	6" PVC SEWER SERVICE PIPE REPAIR ACROSS TRENCH	FOOT	100	100	
* XX006454	WATER SERVICE RELOCATION	EACH	35	35	
Z0004900	BITUMINOUS MIXTURE FOR PATCHING POTHoles (HOT MIX)	TON	25	25	
Z0019600	DUST CONTROL WATERING	UNIT	100	100	
Δ Z0076600	TRAINEES	HOUR	1,000	1,000	
XX004815	8" X 6" PVC SEWER SERVICE CONNECTIONS	EACH	2	2	
XX004816	12" X 6" PVC SEWER SERVICE CONNECTIONS (SPECIAL)	EACH	9	9	
XX004817	15" X 6" PVC SEWER SERVICE CONNECTIONS (SPECIAL)	EACH	3	3	
* XX004818	WATER SERVICE RELOCATION (STORM SEWER)	EACH	38	38	

* DENOTES SPECIALTY ITEM
Δ Y080



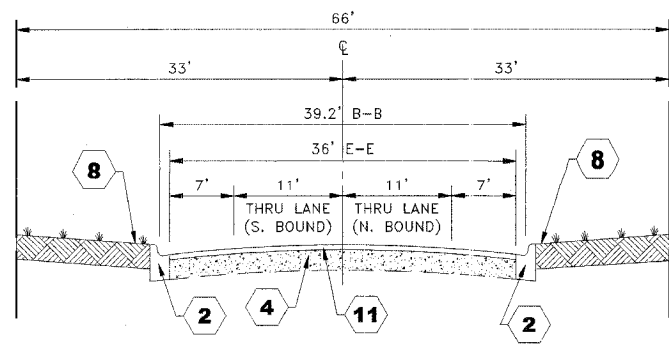
◆ Civil Engineers
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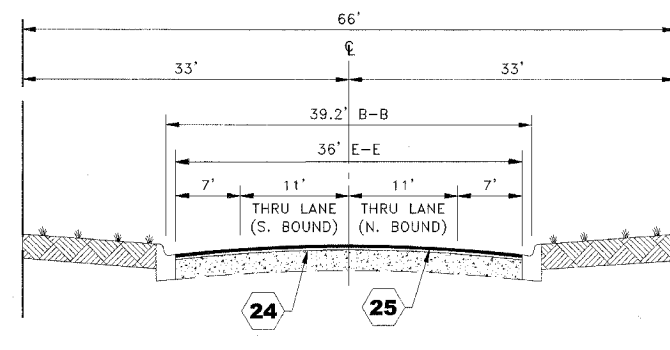
**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

SUMMARY OF QUANTITIES

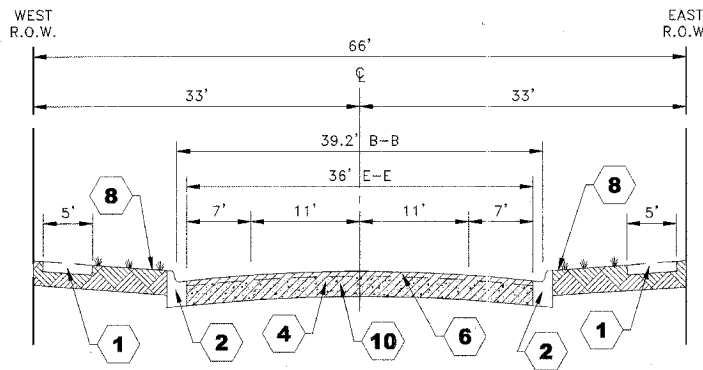
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DATE:	10-6-06	REVISION:	
E.H.E. NO.:	125-04-26301	OF	47



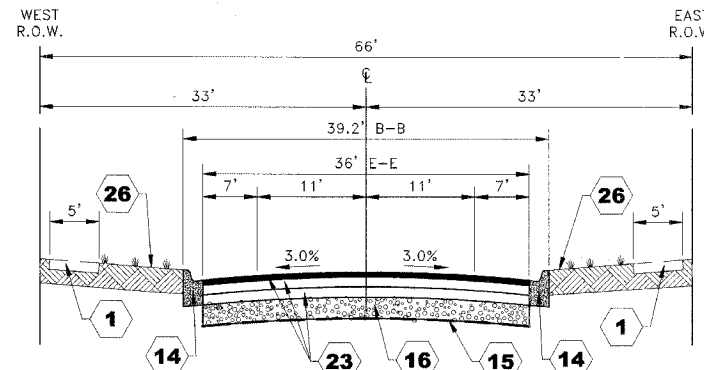
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PRAIRIE AVENUE
(STATION 4+65 TO STATION 5+60)



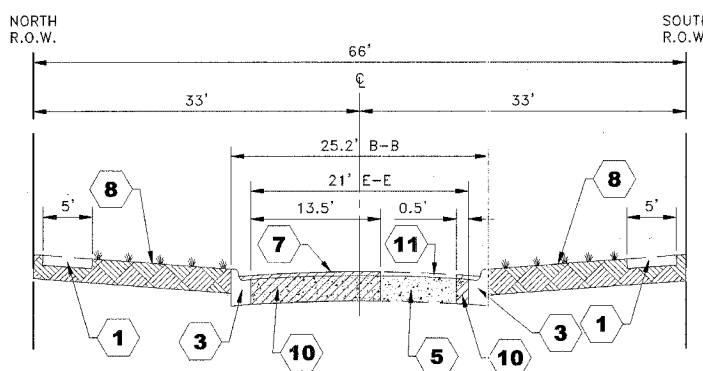
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PRAIRIE AVENUE
(STATION 4+65 TO STATION 5+60)



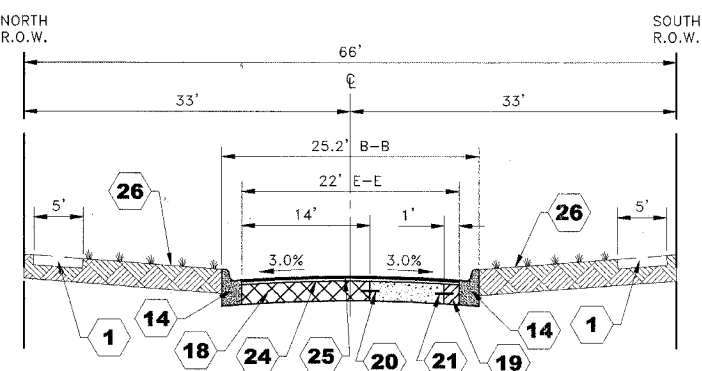
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PRAIRIE AVENUE
(STATION 5+60 TO STATION 23+25)



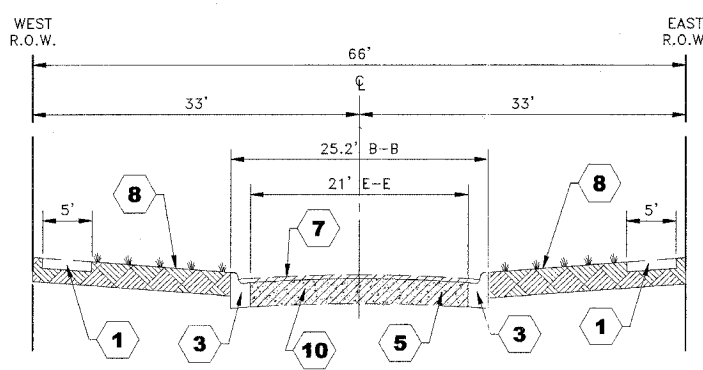
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PRAIRIE AVENUE
(STATION 5+60 TO STATION 23+25)



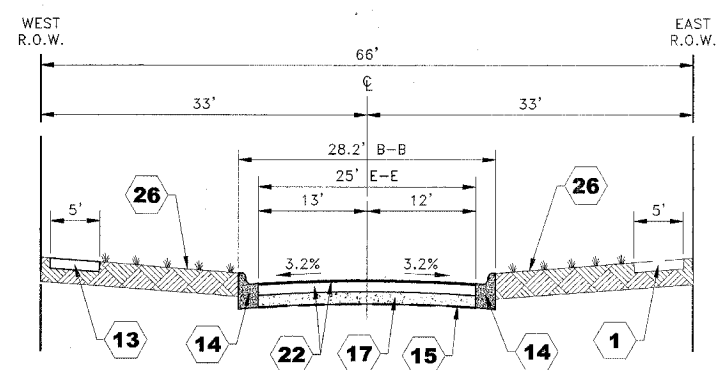
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LINCOLN AVENUE
(STATION 1+17 TO STATION 3+66)



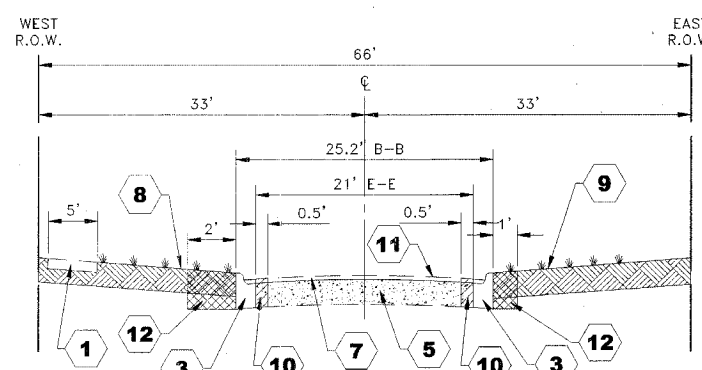
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LINCOLN AVENUE
(STATION 1+17 TO STATION 3+66)



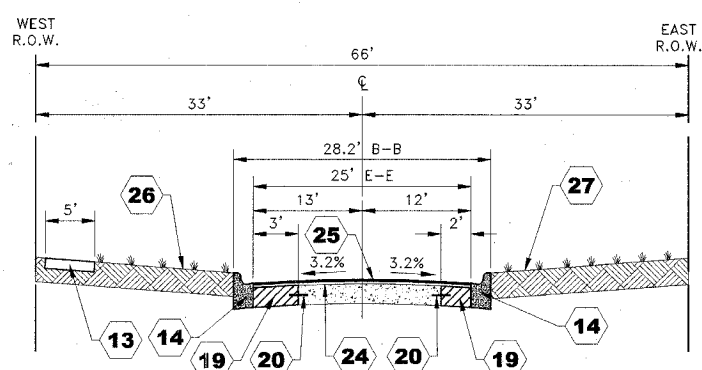
EXISTING TYPICAL CROSS SECTION
FOREST AVENUE
(STATION 0+60 TO STATION 4+75)



PROPOSED TYPICAL CROSS SECTION
FOREST AVENUE
(STATION 0+60 TO STATION 4+75)



EXISTING TYPICAL CROSS SECTION
FOREST AVENUE
(STATION 4+75 TO STATION 7+95)



PROPOSED TYPICAL CROSS SECTION
FOREST AVENUE
(STATION 4+75 TO STATION 7+95)

TYPICAL CROSS SECTION LEGEND

- | EXISTING | PROPOSED |
|--|---|
| 1 PORTLAND CEMENT CONCRETE SIDEWALK, 5" | 13 PORTLAND CEMENT CONCRETE SIDEWALK, 5" |
| 2 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 | 14 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 |
| 3 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18 | 15 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION |
| 4 PORTLAND CEMENT CONCRETE BASE COURSE, 6" - 10 1/2" | 16 AGGREGATE BASE COURSE, TYPE B, 12" |
| 5 PORTLAND CEMENT CONCRETE BASE COURSE, 6" - 8" | 17 AGGREGATE BASE COURSE, TYPE B, 6" |
| 6 BITUMINOUS CONCRETE BINDER & SURFACE COURSE, 2" - 5 1/2" | 18 PORTLAND CEMENT CONCRETE BASE COURSE, 8" |
| 7 BITUMINOUS CONCRETE BINDER & SURFACE COURSE, 2" - 4" | 19 PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8" |
| 8 SODDED PARKWAY | 20 EPOXY COATED, 3/4" DIAMETER, 18" LONG DEFORMED TIE BARS @ 24" O.C. (INCIDENTAL TO PORTLAND CEMENT CONCRETE BASE COURSE, 8" OR PORTLAND CEMENT CONCRETE BASE COURSE SIDENING, 8") |
| 9 WOODDED PARKWAY | 21 EPOXY COATED, 3/4" DIAMETER, 12" LONG DEFORMED TIE BARS @ 24" O.C. (INCIDENTAL TO PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8") |
| 10 PAVEMENT REMOVAL (8"-16") | 22 HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6"
- HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2"
- HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" |
| 11 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (0"-3") | 23 HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9"
- HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2"
- HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 7" (2 LIFTS) |
| 12 EARTH EXCAVATION | 24 LEVELING BINDER (MACHINE METHOD), N50, 1" |
| | 25 HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 1 1/2" |
| | 26 SODDED PARKWAY WITH 4" TOPSOIL |
| | 27 SEEDED PARKWAY WITH 4" TOPSOIL |

Drawing file: W:\Projects\12504263 - Prairie Ave 2nd Phase\2D Project\Typical.dwg Oct 05, 2006 - 2:28pm

**POROUS GRANULAR EMBANKMENT
SUBGRADE LOCATIONS PER SOIL REPORT**

LOCATION	EAST SIDE		WEST SIDE	
	WIDTH	DEPTH	WIDTH	DEPTH
10+25 TO 12+00	18'	6"	18'	6"
22+00 TO 23+15	18'	6"	18'	6"

NOTE:
ACTUAL LOCATIONS, WIDTHS,
AND DEPTHS TO BE DETERMINED
BY ENGINEER IN THE FIELD.

PAVEMENT CORE SUMMARY

BORE	STATION	OFFSET	LEFT/RIGHT	BITUMINOUS	CONC. BASE	TOTAL
PC-1	4+88	14'	RIGHT	5 3/4"	6"	11 1/2"
PC-2	6+24	5'	RIGHT	5"	7"	12"
PC-3	7+92	5.5"	LEFT	3 3/4"	7"	10 3/4"
PC-4	9+58	14.5'	LEFT	2"	8 1/2"	10 1/4"
PC-5	11+16	14'	RIGHT	2 1/4"	7"	9 1/2"
PC-6	12+86	3.5'	RIGHT	3 1/2"	7 1/2"	11"
PC-7	14+50	5'	LEFT	3 1/4"	7 1/4"	10 1/2"
PC-8	16+17	13.5'	LEFT	3"	10 1/4"	13 1/4"
PC-9	17+97	14.5'	RIGHT	2 1/4"	8 1/2"	10 3/4"
PC-10	19+60	4'	RIGHT	3 1/2"	7"	10 1/2"
PC-11	21+26	5.5'	RIGHT	4 1/4"	7 1/2"	11 3/4"
PC-12	22+93	13.5'	LEFT	5"	9 1/2"	14 1/2"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	AC TYPE	PERCENT AIR VOIDS
HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9"		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (7") (2 LIFTS)	PG 6A-22/58-22	4% @ 50 Gyr
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (2")	PG 6A-22	4% @ 50 Gyr
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (4")	PG 6A-22/58-22	4% @ 50 Gyr
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (2")	PG 6A-22	4% @ 50 Gyr
LEVELING BINDER (MACHINE METHOD), N50	PG 6A-22/58-22	4% @ 50 Gyr
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50	PG 6A-22	4% @ 50 Gyr

* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER
IN THE MIX SHALL BE PG 58-22.
** THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX
ASPHALT MIXTURES IS 112 LBS/SQYD/IN.

PROJECT STAGING AND LOCAL ACCESS

- DURING THE CONSTRUCTION OF THE PROJECT, PRAIRIE AVENUE WILL BE CLOSED TO THROUGH TRAFFIC FROM BROOKFIELD AVENUE TO WASHINGTON AVENUE.
- LOCAL ACCESS WILL BE PROVIDED AT GRANT AVENUE, LINCOLN AVENUE, AND FOREST AVENUE.
- THE CONTRACTOR WILL MAINTAIN ACCESS TO THE INTERSECTIONS OF GRANT AVENUE AND LINCOLN AVENUE AT ALL TIMES INCLUDING DURING THE RECONSTRUCTION OF THE PAVEMENT SO THAT RESIDENTS WILL HAVE ACCESS TO THE ALLEY BEHIND THE HOUSES ON THE EAST SIDE OF PRAIRIE AVENUE. THIS WILL BE PAID FOR UNDER AGGREGATE BASE COURSE, TYPE B ITEM.
- WHILE THE STORM SEWER, COMBINED SEWER, AND CONCRETE WORK IS BEING PERFORMED, ON-STREET PARKING WILL BE ALLOWED ON BOTH SIDES OF THE STREET AND 2 THROUGH LANES TO PERMIT LOCAL ACCESS WILL BE MAINTAINED DURING NON-WORKING HOURS.
- DURING THE INSTALLATION OF THE STORM SEWER AND COMBINED SEWER, ALL TRENCHES SHALL BE SAW-CUT FULL-DEPTH TO ALLOW FOR THE NEAT REMOVAL OF THE EXISTING PAVEMENT.
- DURING THE INSTALLATION OF THE CURB AND GUTTER, THE EXISTING PAVEMENT SHALL REMAIN IN PLACE. THE PAVEMENT SHALL BE SAW-CUT FULL-DEPTH 6" FROM THE EDGE OF PAVEMENT TO ALLOW FOR THE NEAT REMOVAL OF THE EXISTING CURB AND GUTTER.
- ALL REQUIRED SAW - CUTTING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PERTINENT INDIVIDUAL PAY ITEMS IN THE CONTRACT.
- THE TRENCHES FOR THE STORM SEWER LATERALS AND THE COMBINED SEWER REPAIRS WILL BE BACKFILLED TO THE TOP OF THE EXISTING PAVEMENT TO PROVIDE LOCAL ACCESS. THIS WILL BE PAID FOR UNDER AGGREGATE BASE COURSE, TYPE B ITEM.
- THE TRENCH ALONG THE EAST SIDE OF PRAIRIE AVENUE FOR THE STORM SEWER WILL BE BACKFILLED TO THE TOP OF THE EXISTING PAVEMENT TO PROVIDE ACCESS AT ALL DRIVEWAYS, ALLEY RETURNS, INTERSECTIONS AND AS DIRECTED BY THE ENGINEER. THIS WILL BE PAID FOR UNDER AGGREGATE BASE COURSE, TYPE B ITEM.
- THE EXCAVATION FOR THE PROPOSED PAVEMENT SHALL BEGIN AFTER THE PLACEMENT OF THE PROPOSED CONCRETE CURB AND GUTTER, DRIVEWAYS AND SIDEWALKS.

EARTHWORK TABLE

LOCATION	REMOVAL & DISPOSAL MATERIAL (PGES) (CU YD)	EARTH EXCAVATION (CU YD)	TOTAL SUITABLE EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR 15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
PRAIRIE AVENUE						
4+65 TO 10+00	0	760	760	640	0	+640
10+00 TO 20+00	200	1,685	1,685	1,430	0	+1,430
20+00 TO 23+25	200	480	480	410	0	+410
FOREST AVENUE						
0+80 TO 7+85	0	320	320	270	0	+270
TOTALS	400	3,245	3,245	2,750	0	+2,750

Drawing File: W:\Projects\1250203 - Prairie Ave 2nd Phase\DWG Project\Typical.dwg Oct 10, 2006 - 1:46pm

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**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

TYPICAL CROSS SECTIONS

SCALE:	NONE	7 / 47
DRAWN BY:	MK/LEV	
BOOK NO.:	#1475, #1504	
DATE:	10-6-06	
REVISION:	E.H.E. NO.: 125-04-26301	OF

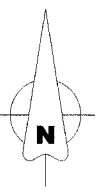
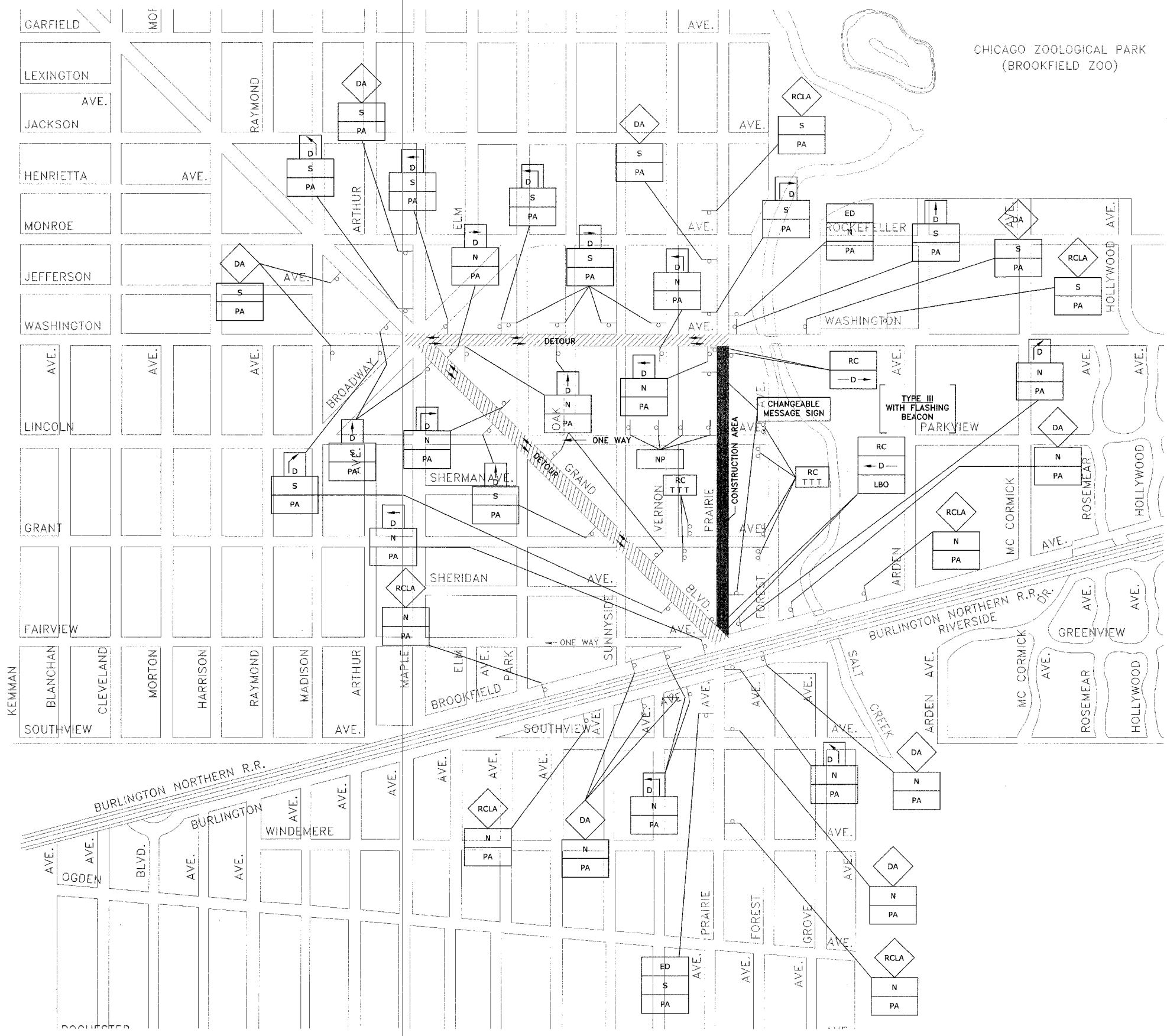
LEGEND OF SYMBOLS		
SYMBOL	DESCRIPTION	CODE & SIZE
		W20-3 48"x48"
		W20-2 48"x48"
		W1-2 24"x24"
		W1-2 24"x24"
		R8-3 24"x24"
		R11-4 60"x30"
		R11-4 60"x30"
		M3-1 24"x12"
		M3-1 24"x12"
		M4-8 36"x12"

LEGEND OF SYMBOLS		
SYMBOL	DESCRIPTION	CODE & SIZE
		M4-8 24"x18"
		M4-8 36"x24"
		M4-9 30"x24"
		M4-9 30"x24"
		M4-9 30"x24"
		M4-9R 24"x30"
		M4-9L 24"x30"
		M4-10 48"x18"
		M4-10 48"x18"

NOTE:

CONTRACTOR TO NOTIFY IDOT HEAD OF TRAFFIC MAINTENANCE (842)705-4470, SEVENTY-TWO HOURS IN ADVANCE OF SETTING UP DETOUR ROUTE.

Drawing: C:\Projects\125042631 - Prairie Ave. 2nd Phase\200 - Project\Maintenance of Traffic.dwg Oct 05, 2006 - 2:28pm



- NOTES:**
1. ALL LOCAL DETOURS SHALL BE APPROVED BY THE VILLAGE AT LEAST 48 HOURS PRIOR TO INSTALLATION.
 2. THE TWO (2) CHANGEABLE MESSAGE SIGNS ARE TO BE ONSITE AND FUNCTIONING FOR 2 WEEKS PRIOR TO PRAIRIE AVENUE BEING CLOSED.

Drawing file: W:\Projects\2504263 - Prairie Ave 2nd Phase\2ND Project\Maintenance of Traffic.dwg Oct 05, 2006 - 2:27pm

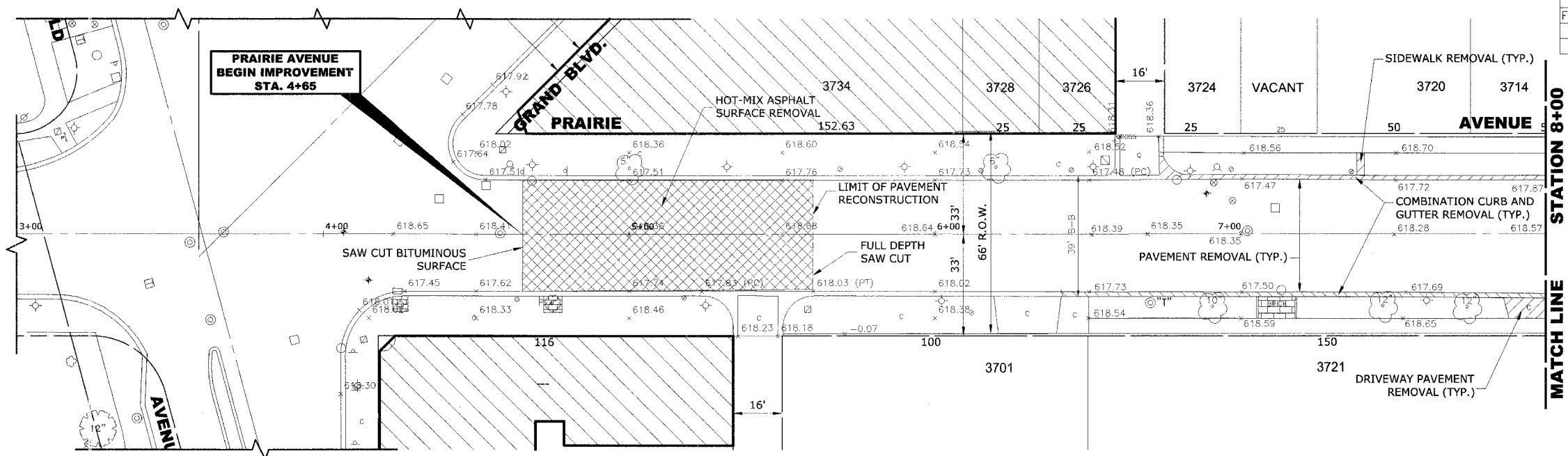
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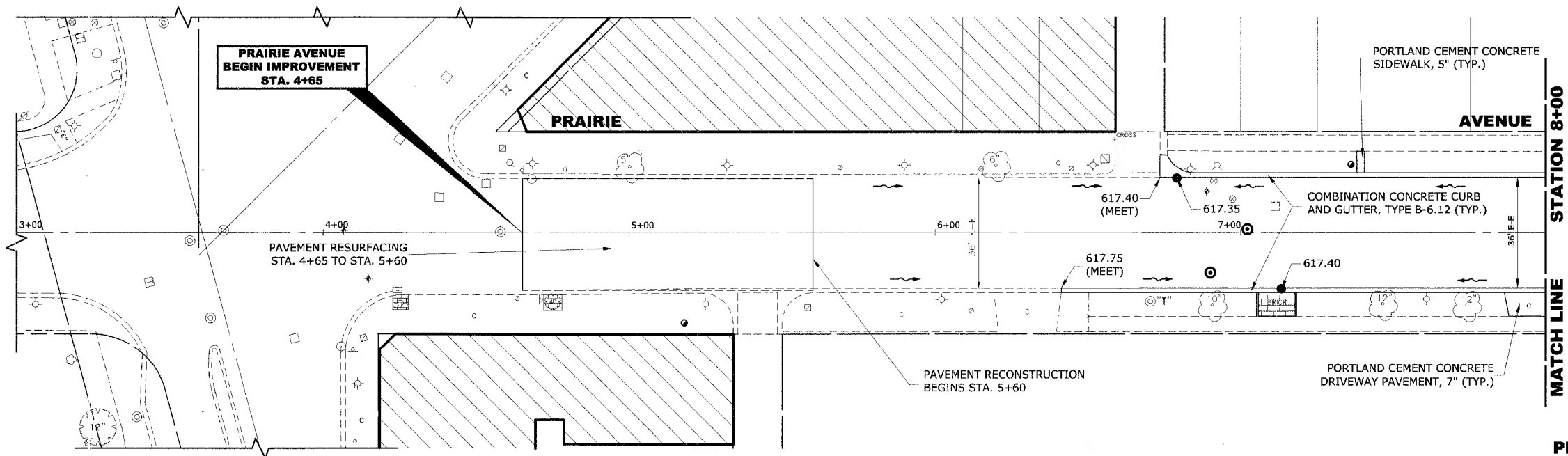
**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

**DETOUR SIGNING FOR THROUGH TRAFFIC
 WHEN PRARIE AVENUE IS CLOSED**

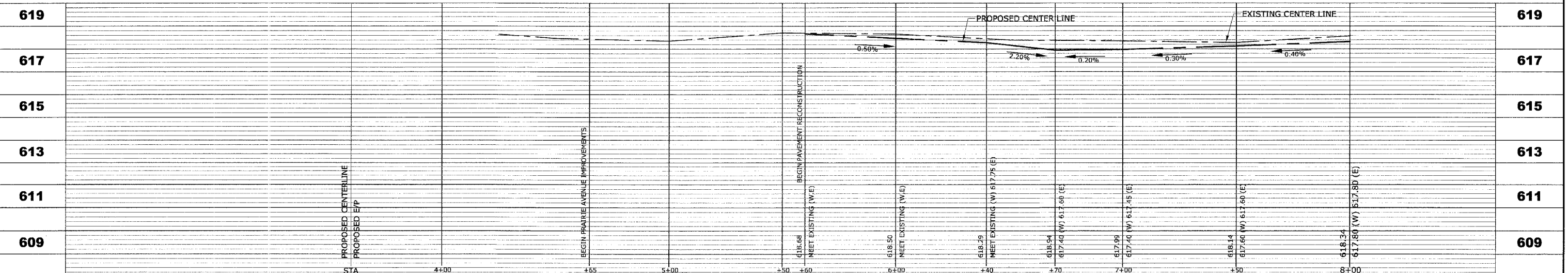
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BOOK NO.:	#1475, #1504	
DATE:	10-6-06	
E.H.E. NO.:	125-04-26301	
REVISION:		OF



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS



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**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

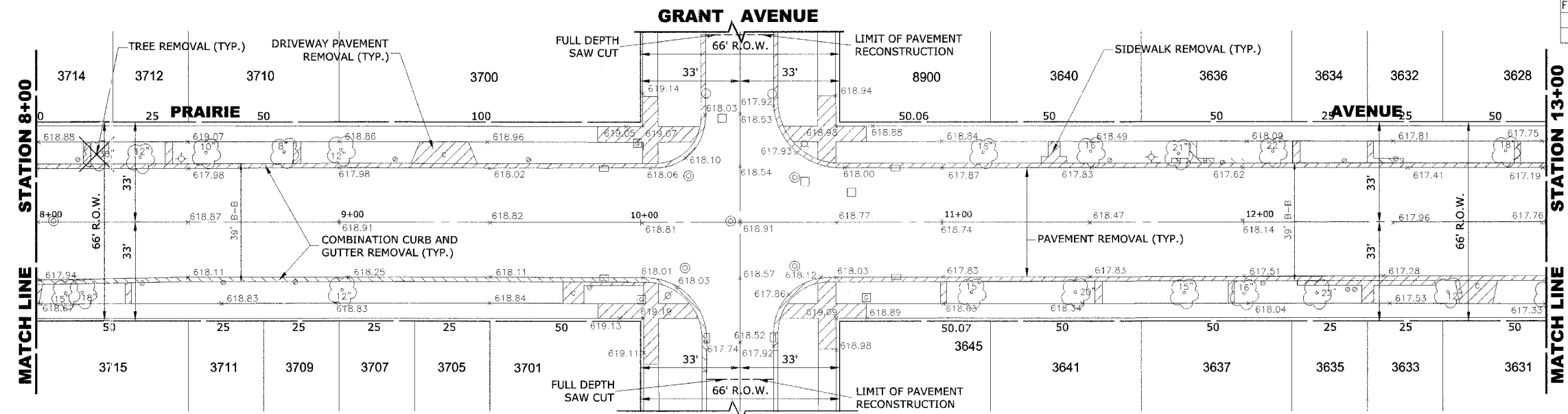
**EXISTING AND PROPOSED
 PAVING PLAN AND PROFILE**

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 BOOK NO.: #1475, #1504
 DATE: 10-6-06
 E.H.E. NO.: 125-04-26301

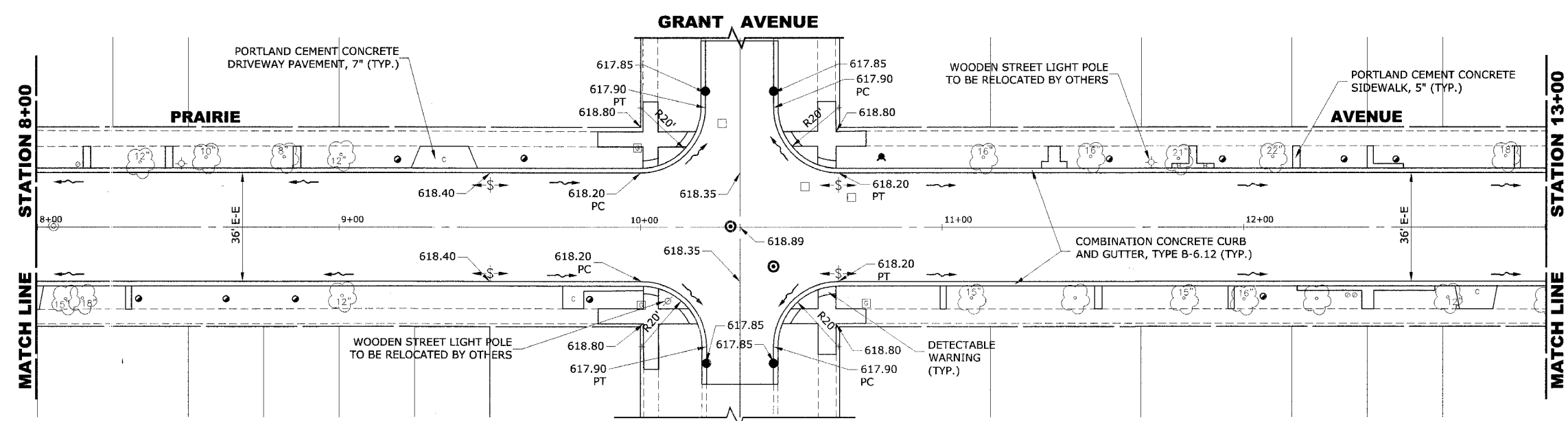
REVISION:

SHEET **10** / **47**

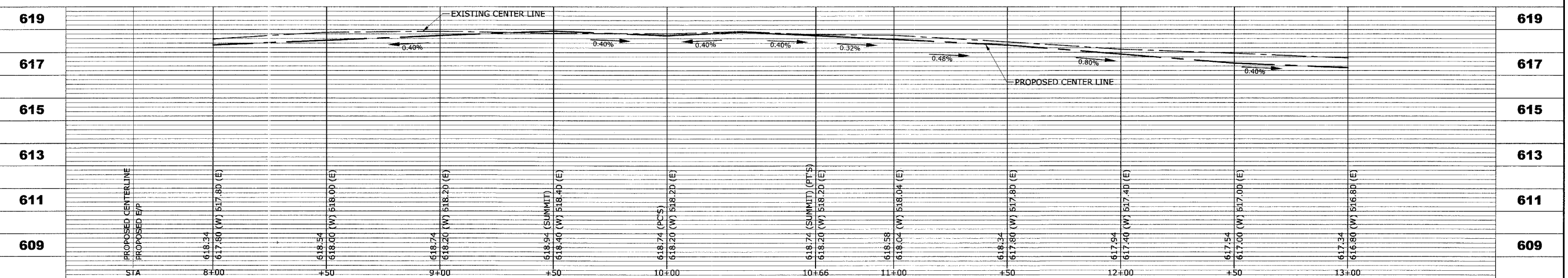
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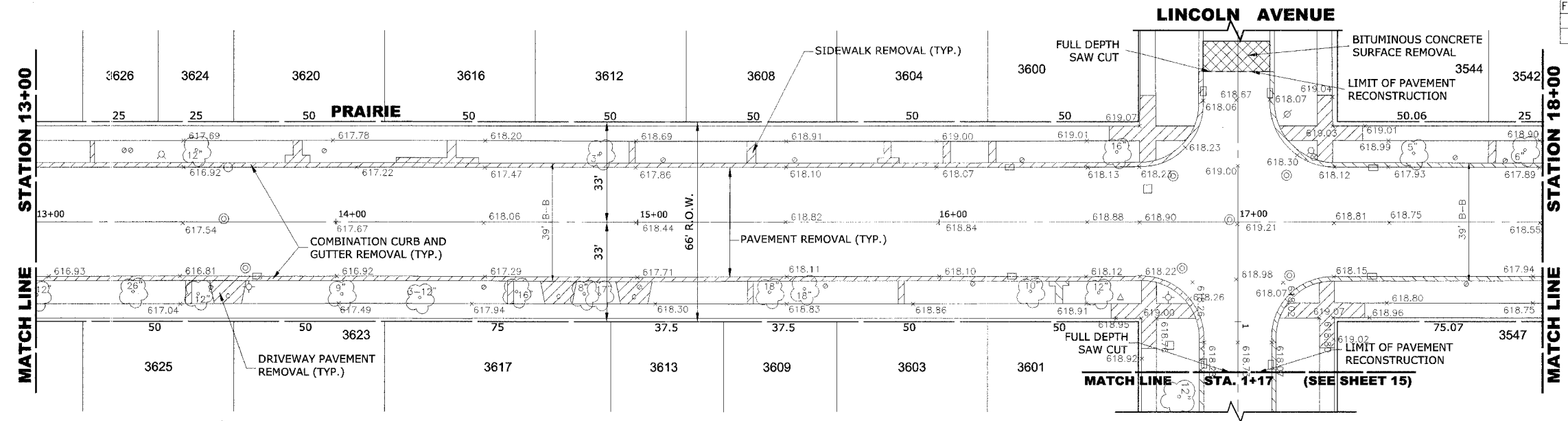
EXISTING TOPOGRAPHY



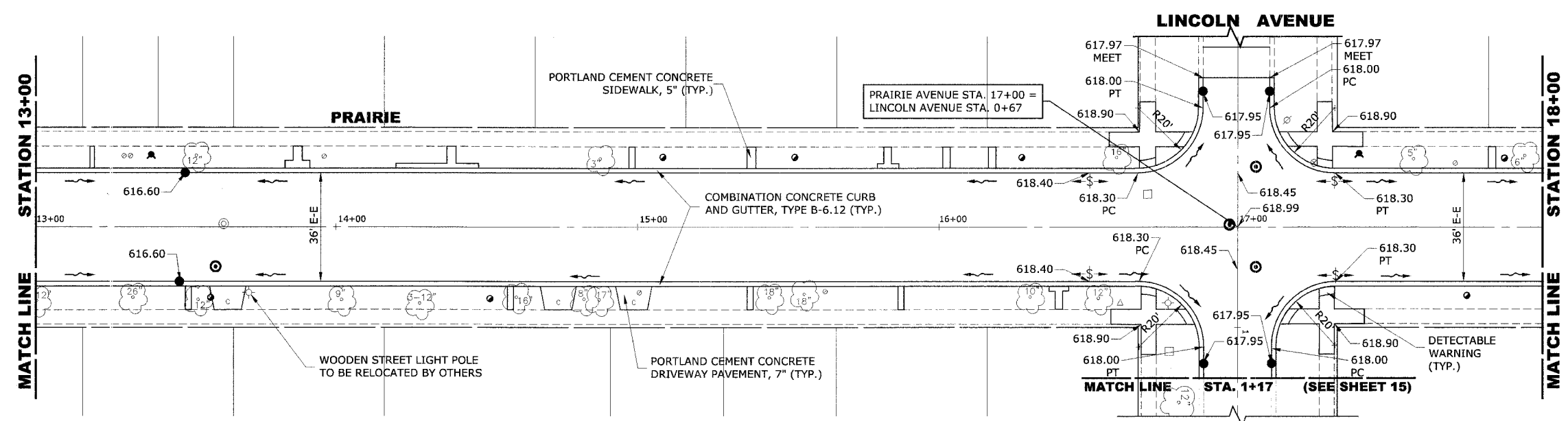
PROPOSED IMPROVEMENTS



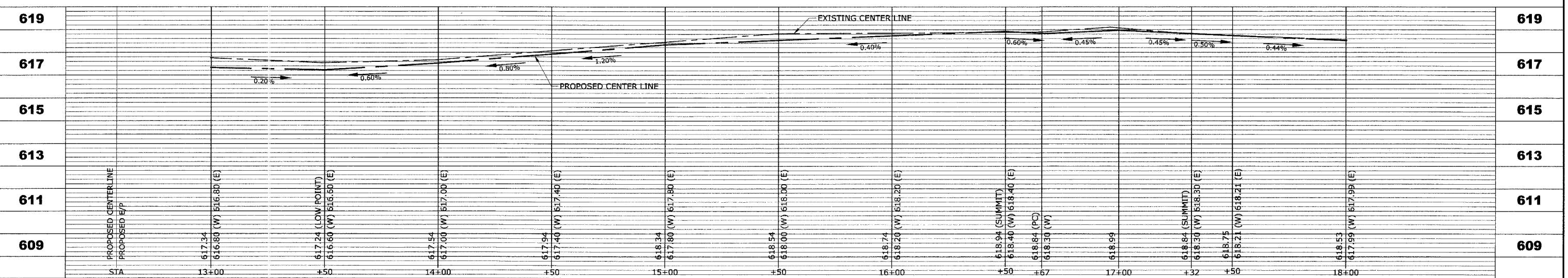
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EXISTING TOPOGRAPHY

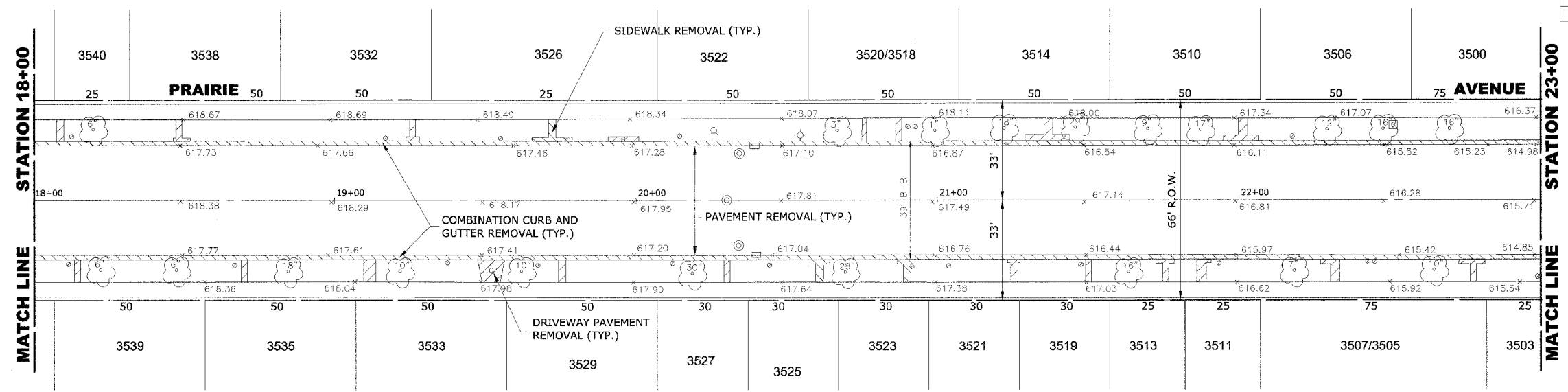


PROPOSED IMPROVEMENTS

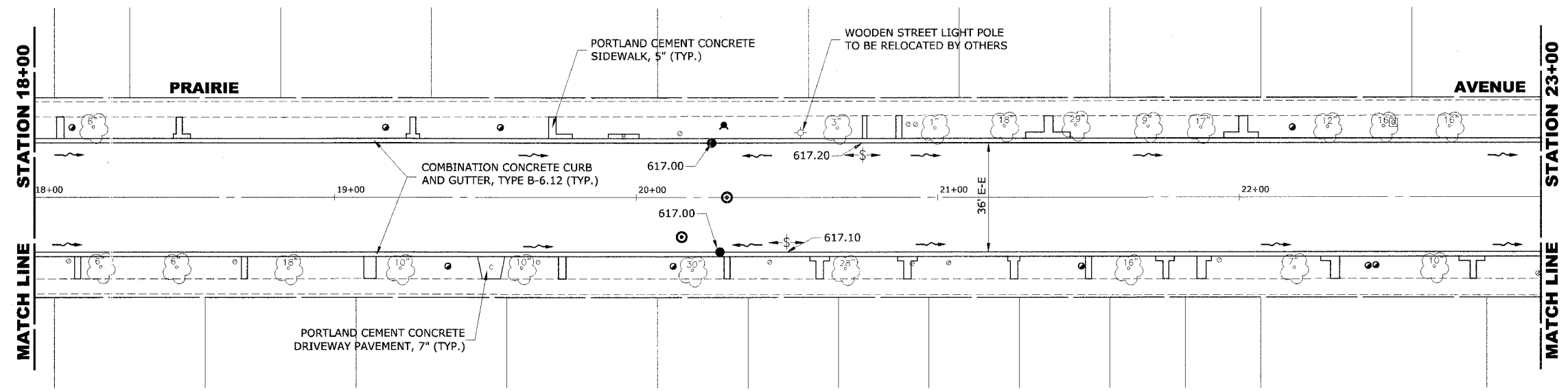


<p>HANCOCK ENGINEERING</p> <ul style="list-style-type: none"> Civil Engineers Municipal Consultants Established 1911 	<p>9933 Roosevelt Road Westchester, Illinois 60154-2780 Phone: 708/865-0300 Fax: 708/865-1212</p>	<p>PRAIRIE AVENUE IMPROVEMENTS PHASE II VILLAGE OF BROOKFIELD, ILLINOIS</p>	<p>EXISTING AND PROPOSED PAVING PLAN AND PROFILE</p>	<p>SCALE: H: 1"=20', V: 1"=2'</p>	<p>SHEET 12 OF 47</p>
				<p>DRAWN BY: MK/LEV BOOK NO.: #1475, #1504 DATE: 10-6-06 E.H.E. NO.: 125-04-26301</p>	

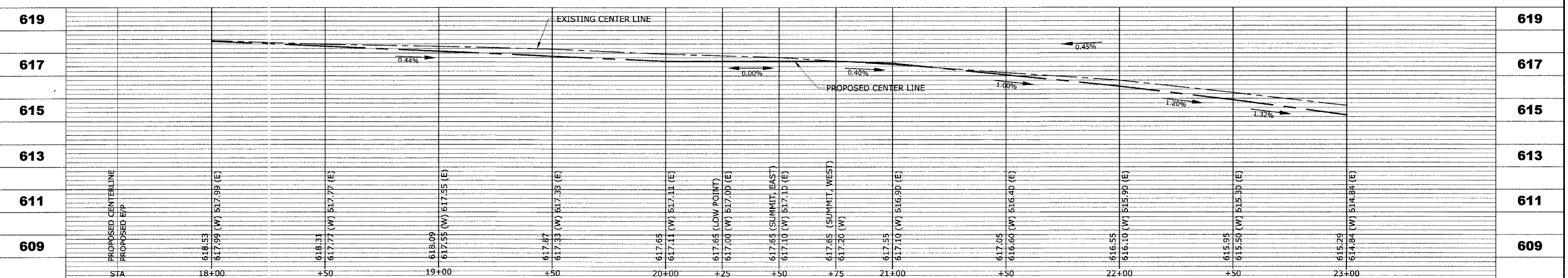
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 Oct 06, 2006 - 3:11pm



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS



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**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

**EXISTING AND PROPOSED
 PAVING PLAN AND PROFILE**

SCALE: H: 1"=20', V: 1"=2'
 DRAWN BY: MK/LEV
 BOOK NO.: #1475, #1504
 DATE: 10-6-06
 E.H.E. NO.: 125-04-26301

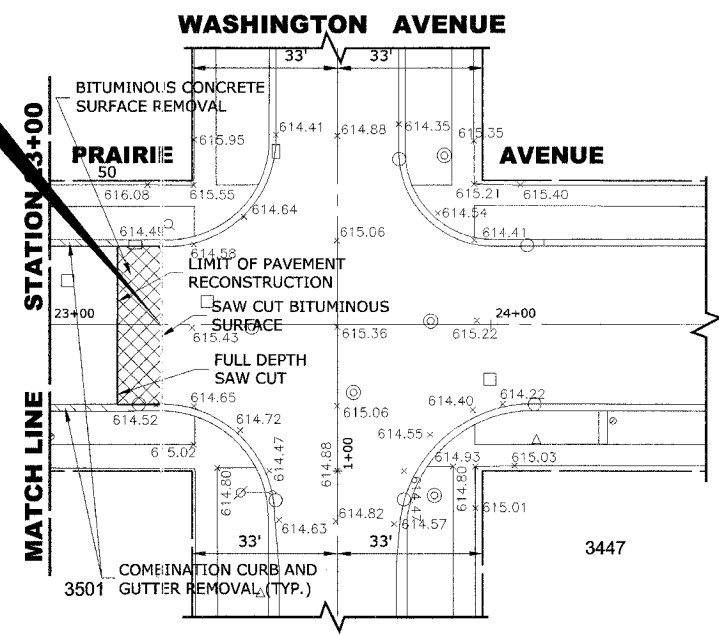
REVISION:

SHEET **13** / **47**

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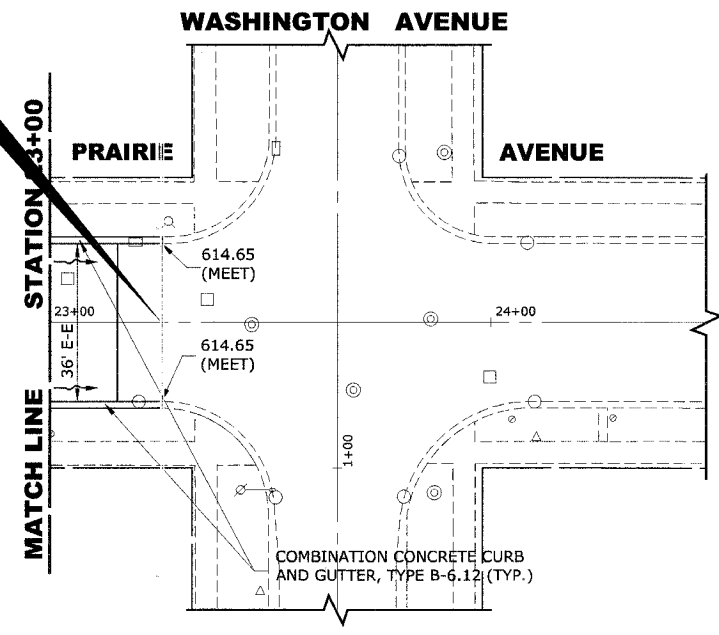
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FAU 2732	**	COOK	47	14
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				

**PRAIRIE AVENUE
END IMPROVEMENT
STA. 23+25**



EXISTING TOPOGRAPHY

**PRAIRIE AVENUE
END IMPROVEMENT
STA. 23+25**



PROPOSED IMPROVEMENTS

619				619
617				617
615		EXISTING CENTER LINE		615
613		0.76%	PROPOSED CENTER LINE	613
611				611
609				609

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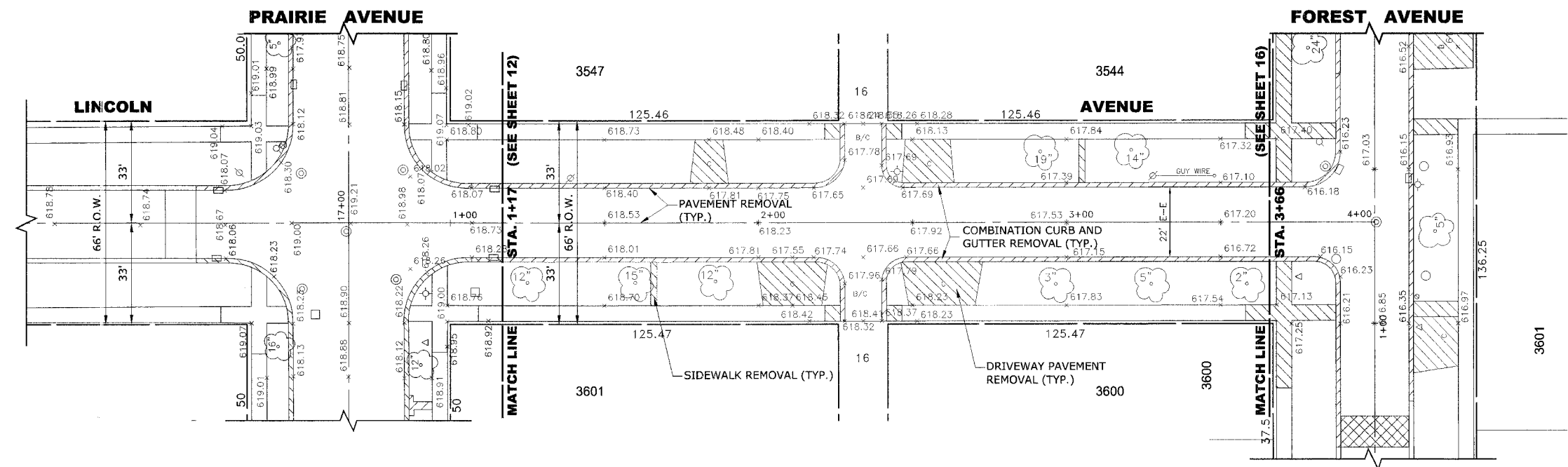
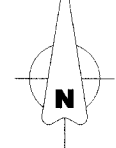
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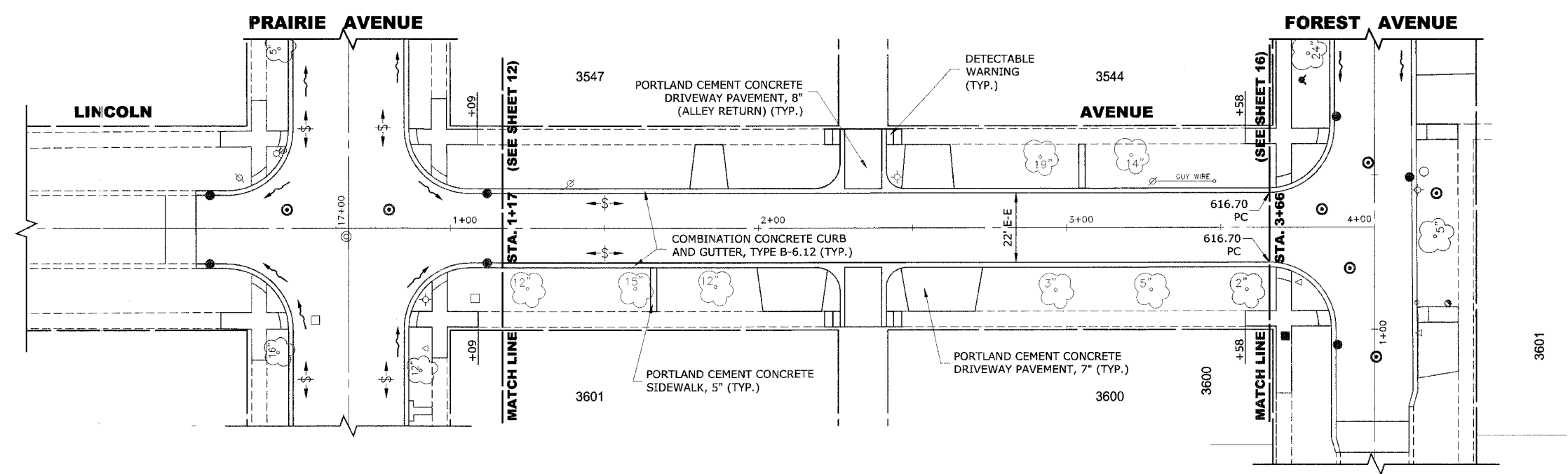
**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

**EXISTING AND PROPOSED
PAVING PLAN AND PROFILE**

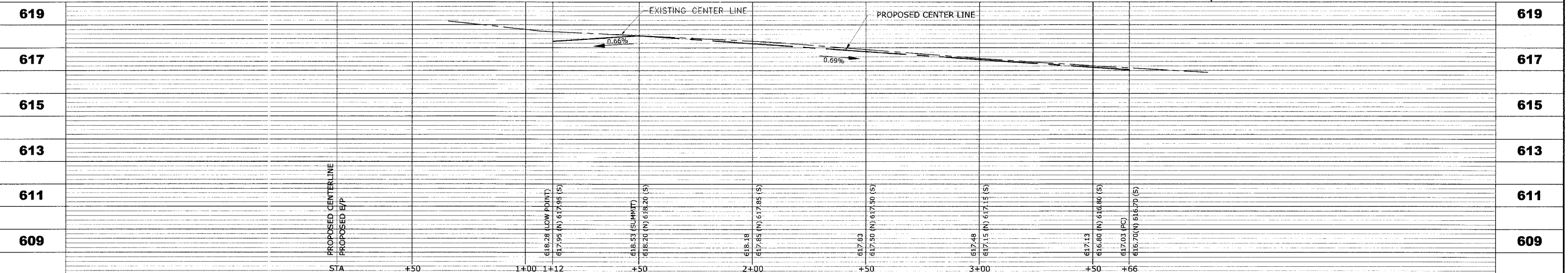
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DRAWN BY: MK/LEV	
BOOK NO.: #1475, #1504	
DATE: 10-6-06	
REVISION:	E.H.E. NO.: 125-04-26301



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS



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**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

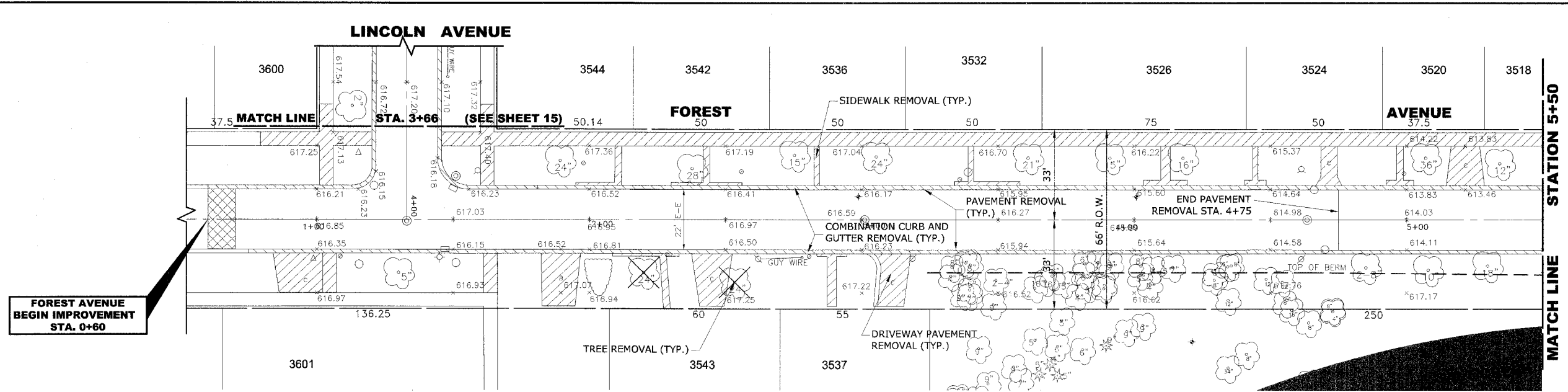
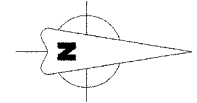
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 PAVING PLAN AND PROFILE**

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 DATE: 10-6-06
 E.H.E. NO.: 125-04-26301

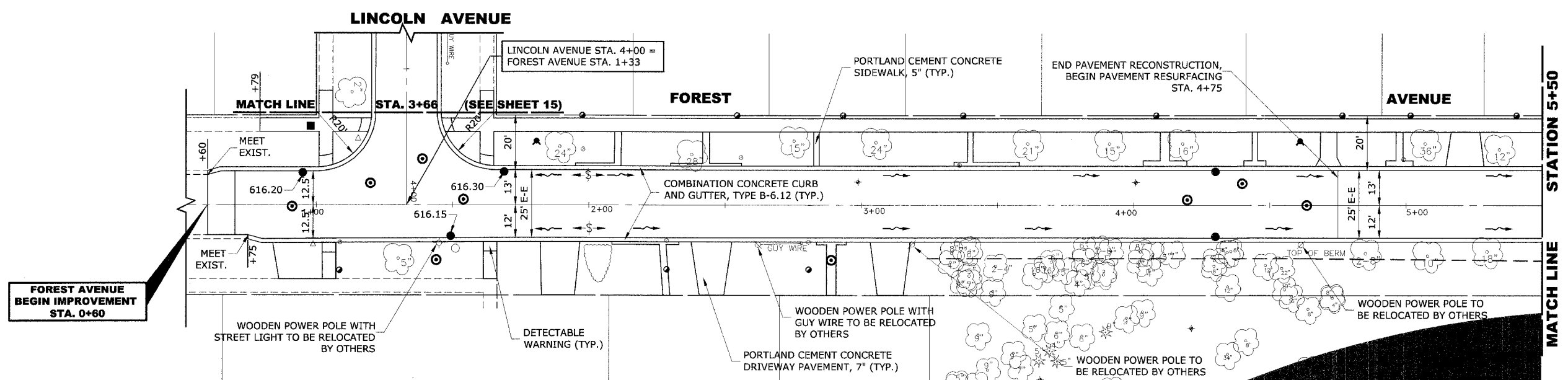
REVISION:

SHEET
15
 OF
47

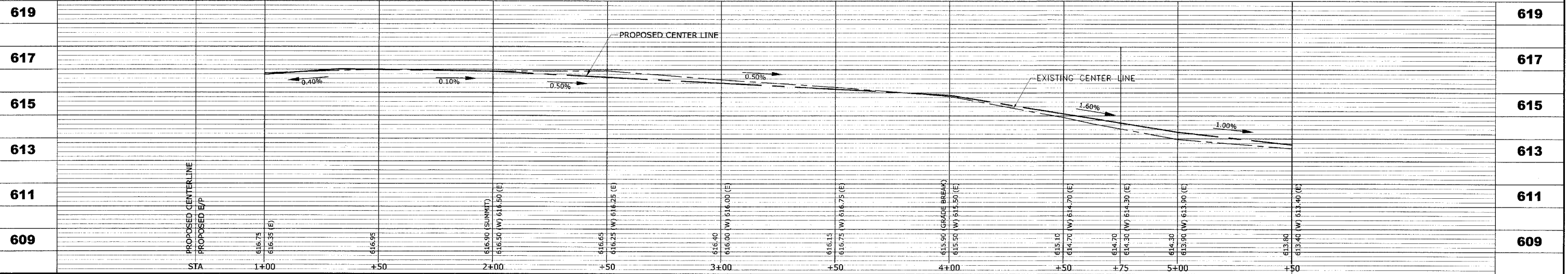
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EXISTING TOPOGRAPHY



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**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

**EXISTING AND PROPOSED
PAVING PLAN AND PROFILE**

SCALE: H: 1"=20', V: 1"=2'

DRAWN BY: MK/LEV

BOOK NO.: #1475, #1504

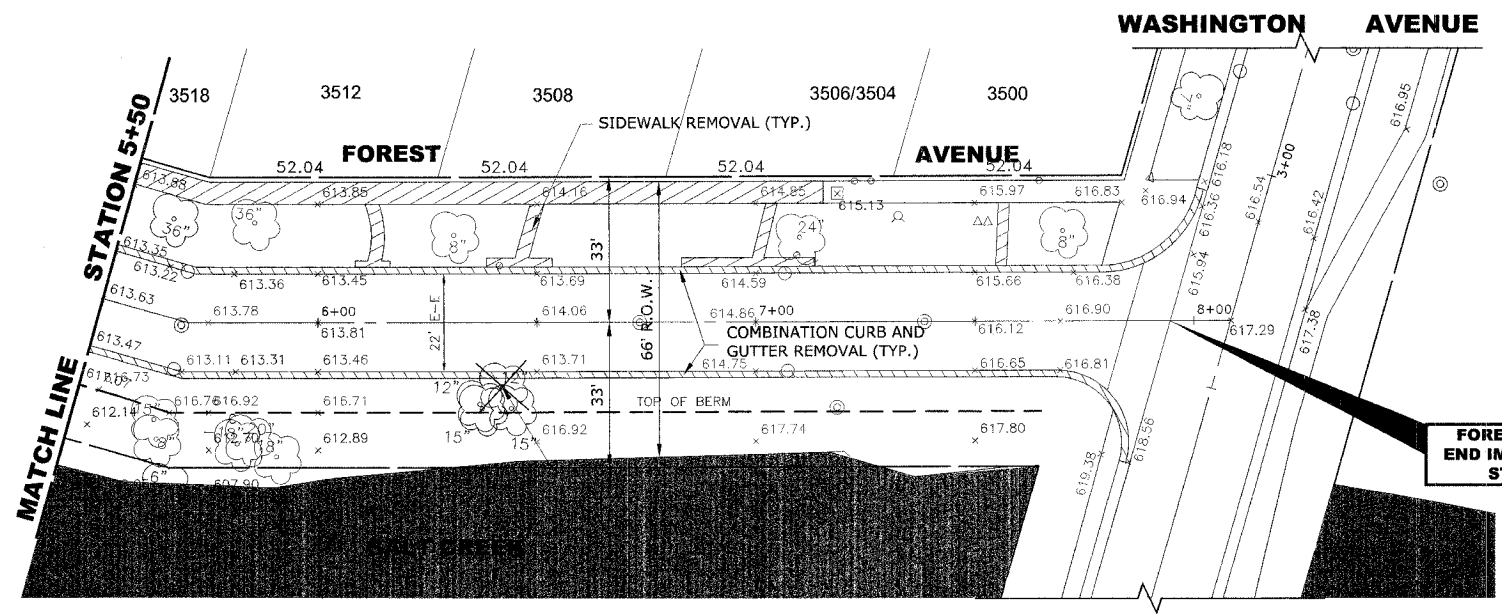
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E.H.E. NO.: 125-04-26301

REVISION:

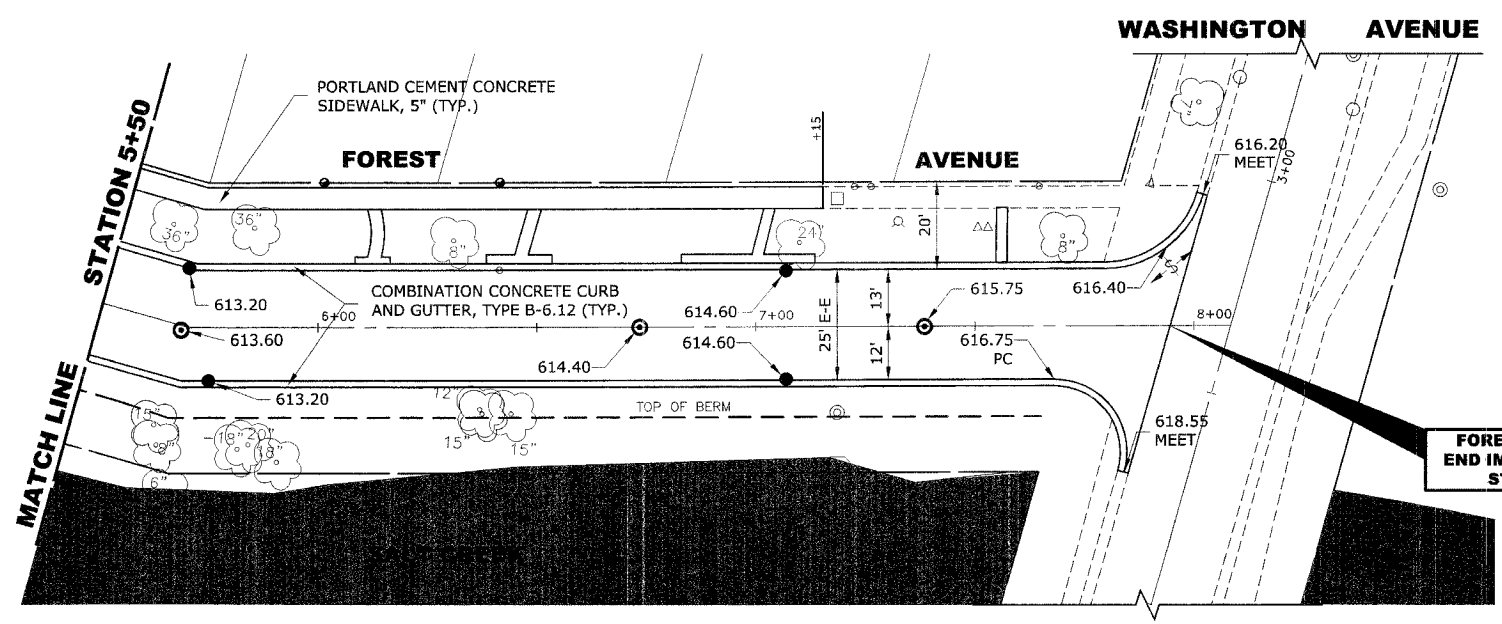
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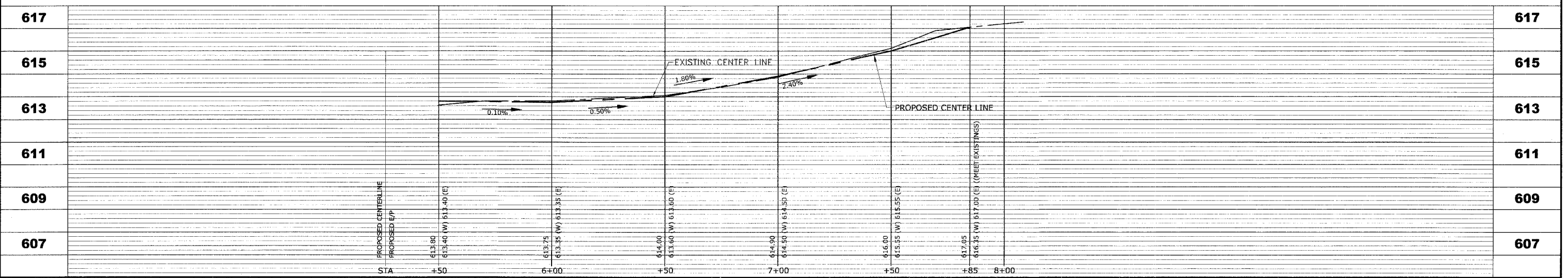
**FOREST AVENUE
END IMPROVEMENT
STA. 7+95**

EXISTING TOPOGRAPHY



**FOREST AVENUE
END IMPROVEMENT
STA. 7+95**

PROPOSED IMPROVEMENTS



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**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

**EXISTING AND PROPOSED
PAVING PLAN AND PROFILE**

SCALE: H: 1"=20', V: 1"=2'
DRAWN BY: MK/LEV
BOOK NO.: #1475, #1504
DATE: 10-6-06
E.H.E. NO.: 125-04-26301

REVISION:

SHEET **17** OF **47**

Drawing file: W:\Projects\1504283 - Prairie Ave 2nd Phase\Profile\Profile_Side_Roads.dwg Oct 05, 2006 - 3:24pm

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	18
ILLINOIS PROJECT	M-8003(712)			
VILLAGE SECTION	00-00115-01-WR			
CONTRACT NO. 83881				

GENERAL NOTES

DEPRESSED CURBS - THE TOP OF CURBS SHALL BE DEPRESSED WHERE THE CURB AND GUTTER IS CONSTRUCTED AT HANDICAP ACCESSIBLE SIDEWALK RAMPS AT ALLEY RETURNS AND STREET INTERSECTIONS, AND FOR PRIVATE DRIVES AND AS DIRECTED BY THE ENGINEER

DRAINAGE OPENINGS - AT ALL LOCATIONS WHERE CASTINGS ARE TO BE INCORPORATED IN THE CURB AND GUTTER, A 3/4" EXPANSION JOINT SHALL BE INSTALLED IN THE CURB AND GUTTER A DISTANCE OF 5 FT. FROM EACH SIDE OF THE CASTING. 2-NO. 4 RE-BARS, 9' IN LENGTH, SHALL BE INCORPORATED IN THE CONTINUOUS PORTION OF CONCRETE CURB BEHIND THE CASTING.

SLIPFORM CONSTRUCTION - VERTICAL FACES MAY BE BATTERED AT THE RATE OF 3/4" PER FOOT OF HEIGHT TO AID IN SLIPFORM OPERATIONS.

DEPRESSED CURB HEIGHT - THE HEIGHT OF THE DEPRESSED CURB SHALL BE 1-1/2" AT DRIVEWAYS. SEE IDOT STANDARD 424001-04 FOR HEIGHT AT SIDEWALK RAMP.

BITUMINOUS EXPANSION JOINTS - THREE QUARTER INCH (3/4") BITUMINOUS PREMOLDED INORGANIC FIBER EXPANSION JOINTS SHALL BE INSTALLED WHERE NEW SIDEWALK OR CURB AND GUTTER OR DRIVEWAY PAVEMENT ABUTS AN EXISTING CONCRETE WALK, DRIVE, OR CURB WHICH IS TO REMAIN IN PLACE, AND AT NOT LESS THAN NINETY FOOT (90') INTERVALS AT LOCATIONS WHERE CURB REPLACEMENT IS IN EXCESS OF NINETY FEET (90'); AT RADIUS POINTS, AT BOTH SIDES OF FRAMES AND GRATES WHICH FALL IN THE CURB; AND AS DIRECTED BY THE ENGINEER.

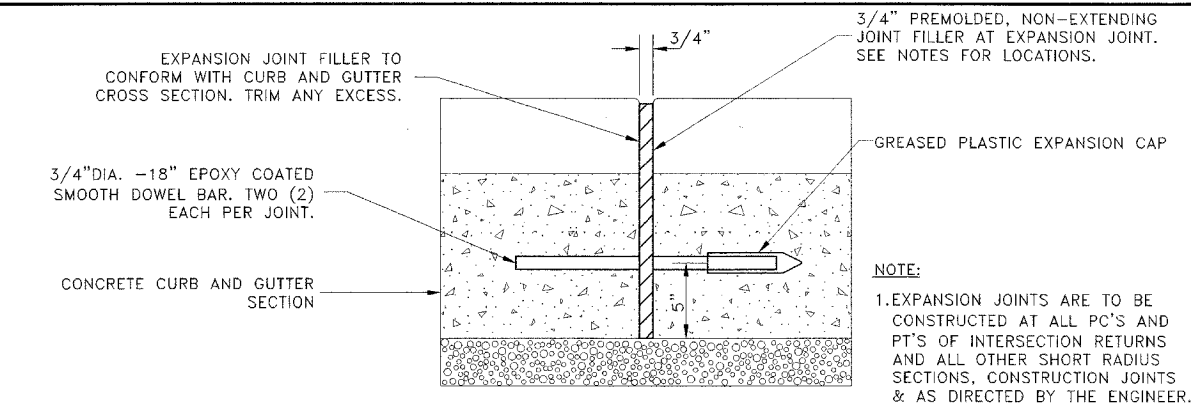
ALL EXPANSION JOINTS LOCATED IN THE CURB AND GUTTER SHALL HAVE TWO (2) THREE QUARTER INCH (3/4") DIAMETER, SMOOTH, ROUND, EPOXY COATED DOWEL BARS, EIGHTEEN INCHES (18") IN LENGTH, WITH GREASED PLASTIC END CAPS INSERTED TO ALLOW THE CURB AND GUTTER TO EXPAND AND CONTRACT LATERALLY. CONTRACTION JOINTS SHALL BE TOOLED INTO THE CURB AND GUTTER AT INTERVALS NOT TO EXCEED FIFTEEN FEET (15'). THESE CONTRACTION JOINTS SHALL BE SAW CUT TO A DEPTH OF TWO INCHES (2") WITHIN TWENTY-FOUR (24) HOURS OF CONCRETE PLACEMENT. THE COST OF THE ABOVE WORK SHALL BE INCLUDED IN THE RESPECTIVE ITEMS FOR CONCRETE INSTALLATION.

CURB AND GUTTER REMOVAL

THE COSTS FOR REMOVAL OF ANY ASPHALT OVERLAY THAT EXTENDS INTO THE GUTTER PORTION OF THE CURB AND GUTTER WILL BE INCLUDED IN THE PRICE FOR COMBINATION CURB AND GUTTER REMOVAL.

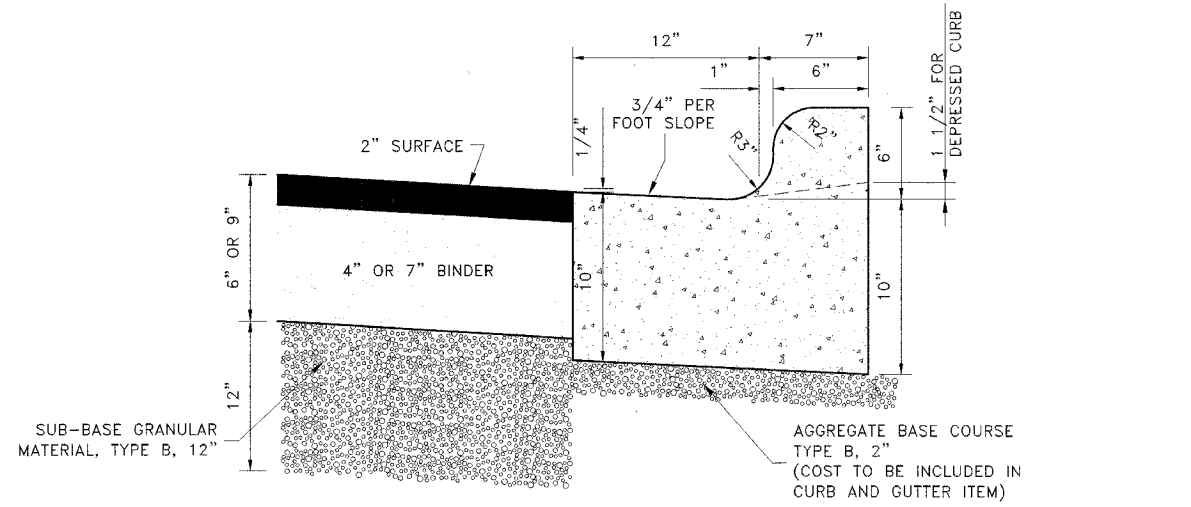
UNDERCUT AND POROUS GRANULAR EMBANKMENT (PGE)

A QUANTITY OF POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES), HAS BEEN PROVIDED FOR USE IF THE EXISTING SOILS ARE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHALL BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGES AS DETERMINED BY THE ENGINEER. IF UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY OF PGES WILL REMAIN UNUSED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR. THE 3-INCH CAPPING AGGREGATE (CA-6 GRADATION) WILL NOT BE REQUIRED SINCE GRANULAR SUBBASE WILL BE PLACED ON TOP OF THE PGE.

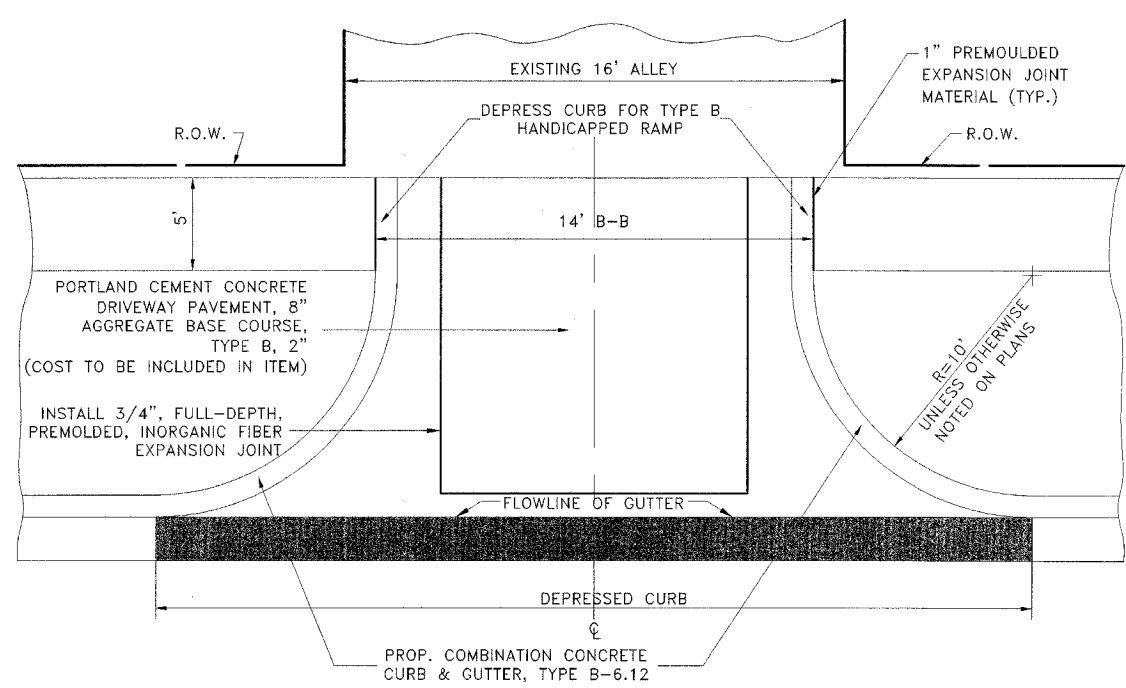


TYPICAL CURB AND GUTTER EXPANSION JOINT

NOTE:
1. EXPANSION JOINTS ARE TO BE CONSTRUCTED AT ALL PC'S AND PT'S OF INTERSECTION RETURNS AND ALL OTHER SHORT RADIUS SECTIONS, CONSTRUCTION JOINTS & AS DIRECTED BY THE ENGINEER.

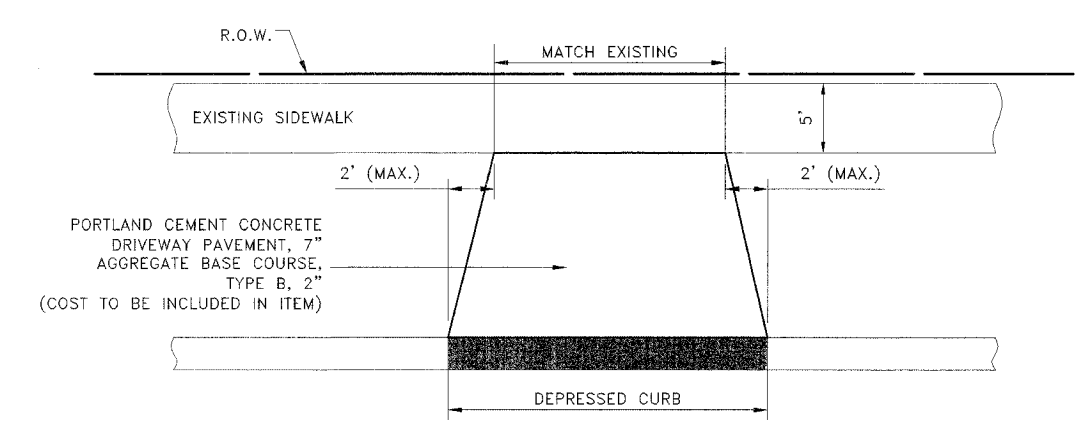


COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12



NOTE: UNLESS OTHERWISE NOTED ON PLAN USE RADII AS MARKED ABOVE.

CONCRETE ALLEY RETURN DETAIL



DRIVEWAY DETAIL

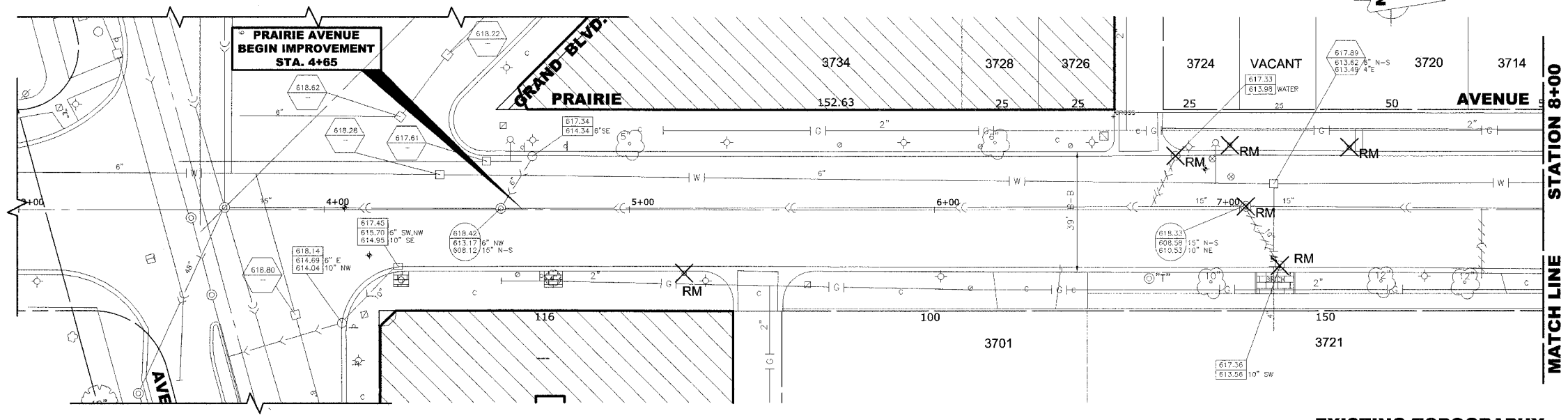
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PRAIRIE AVENUE IMPROVEMENTS PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS

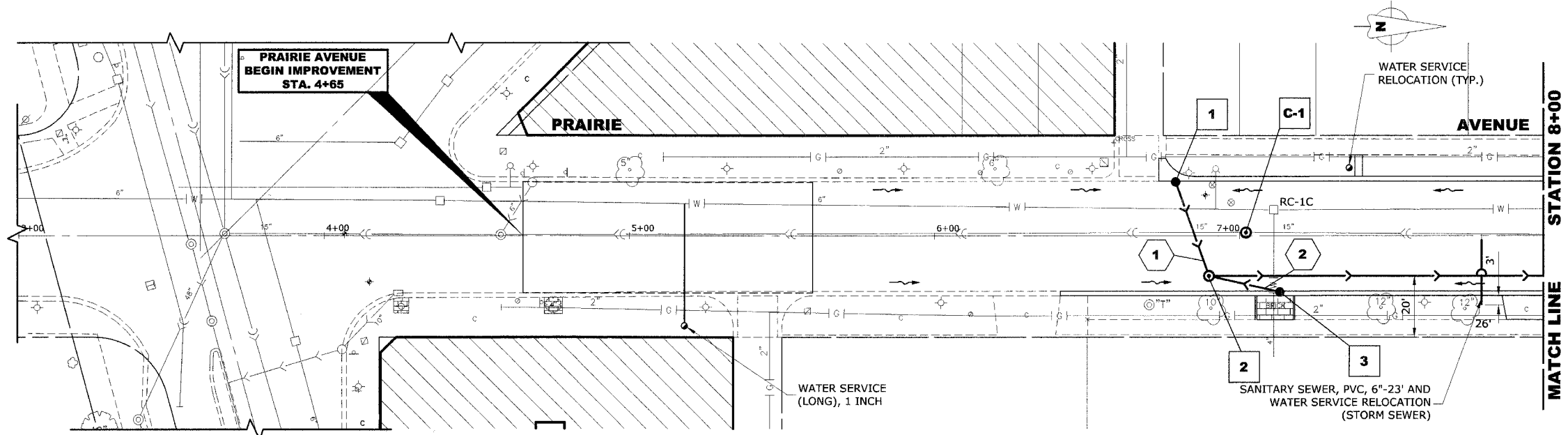
ROADWAY DETAILS

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DRAWN BY:	MK/LEV	
BOOK NO.:	#1475, #1504	
DATE:	10-6-06	
REVISION:	E.H.E. NO.: 125-04-26301	OF



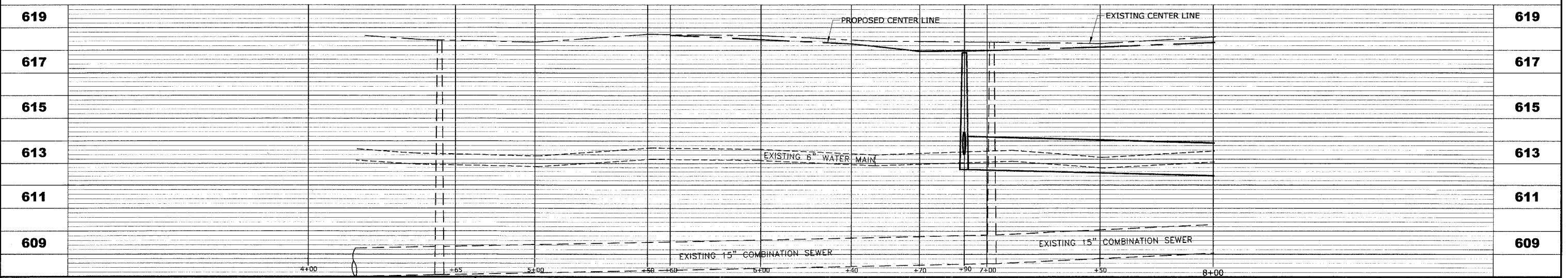
EXISTING TOPOGRAPHY

STRUC. NO.	STA.	OFFSET	TYPE	RIM ELEV.	INV. ELEV.
1	6+80	18' LT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.35	613.60 NE
2	6+90	13' RT	R.D. STORM SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, CLOSED LID	617.90	613.40 NE 613.30 SW 612.70 N
3	7+13	18' RT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.40	613.65 SW
C-1	7+02	1' LT	R.D. COMBINED SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, CLOSED LID	617.99	608.58 N-S



PROPOSED IMPROVEMENTS

PIPE NO.	LENGTH	DIA.	TYPE	SLOPE	C.Y.T.B.
1	32'	10"	SS,PVC, SDR 26	1.00%	1.7
2	24'	10"	SS,PVC, SDR 26	1.00%	1.2



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**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

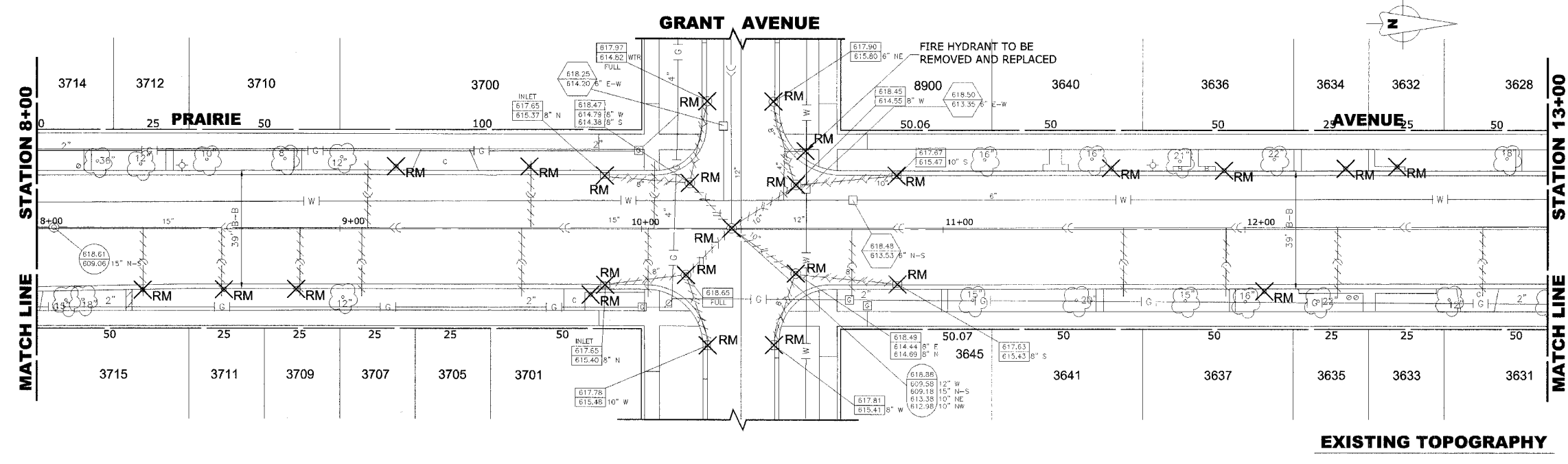
**EXISTING AND PROPOSED
 DRAINAGE AND UTILITIES
 PLAN AND PROFILE**

SCALE: H: 1"=20', V: 1"=2'
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 BOOK NO.: #1475, #1504
 DATE: 10-6-06
 E.H.E. NO.: 125-04-26301

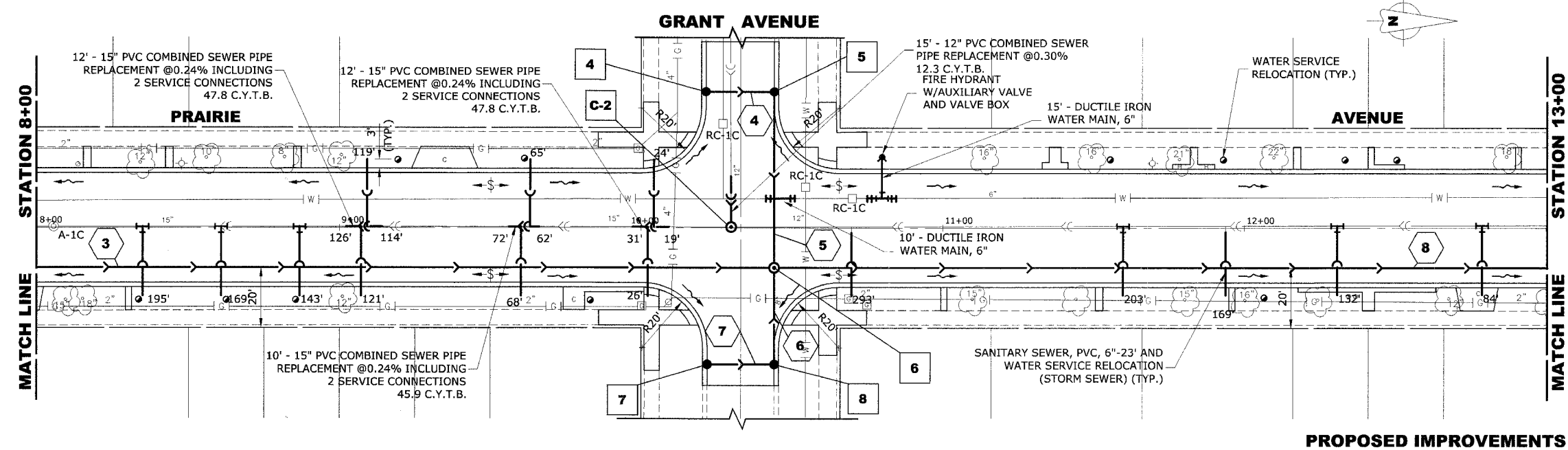
REVISION:

SHEET **19** / **47**

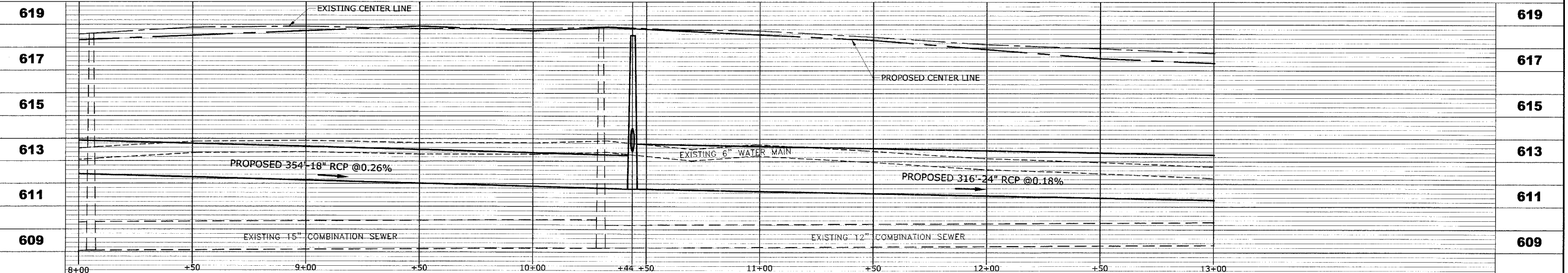
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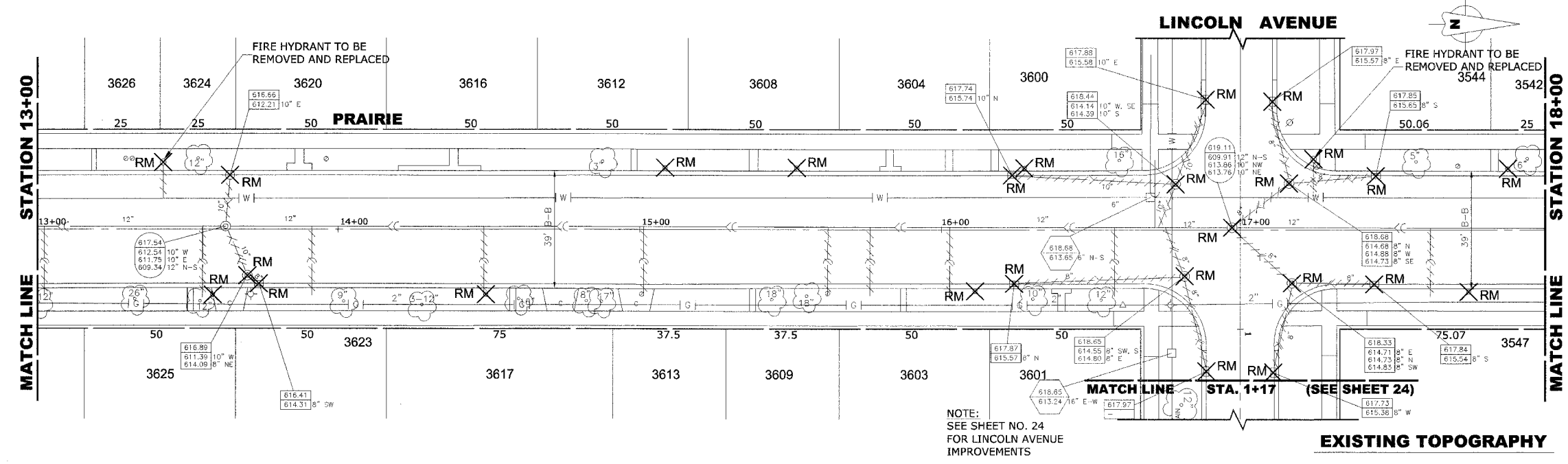
STRUC. NO.	STA.	OFFSET	TYPE	RIM ELEV.	INV. ELEV.
4	10+22	45' LT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.85	614.10 N
5	10+44	45' LT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.85	613.90 S 613.80 E
6	10+44	13' RT	R.D. STORM SEWER MANHOLE, 5' DIA., TYPE 1 FRAME, CLOSED LID	618.55	613.45 W 613.25 E 611.77 N,S
7	10+22	45' RT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.85	614.10 N
8	10+44	45' RT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.85	613.90 S 613.80 W
C-2	10+30	0	R.D. COMBINED SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, CLOSED LID	618.99	609.58 SW 609.18 S,N



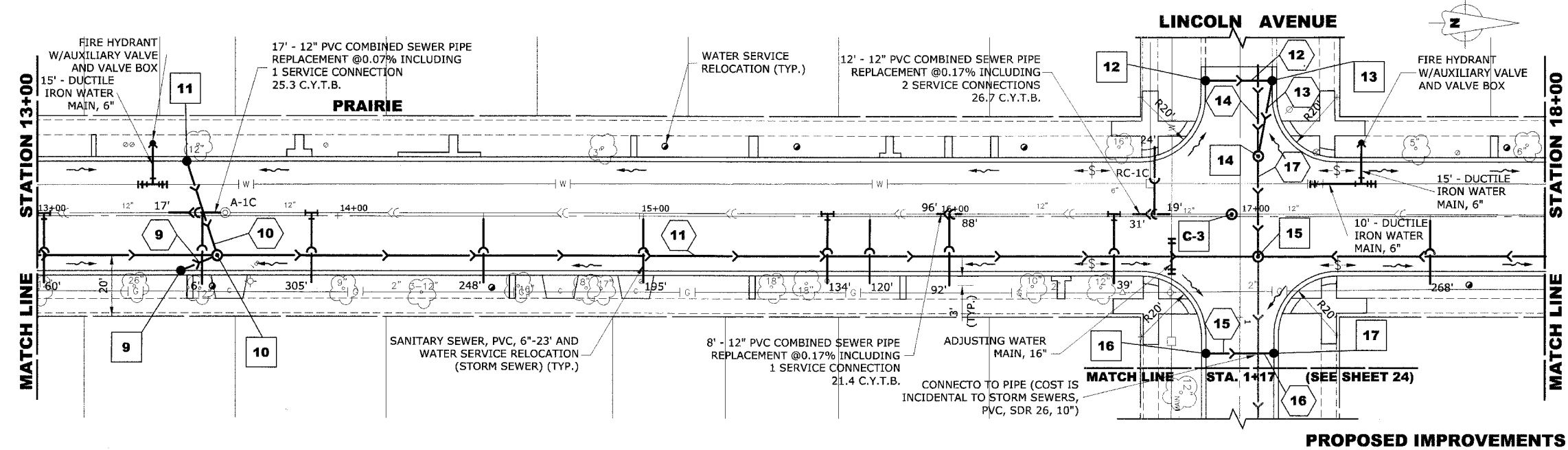
PIPE NO.	LENGTH	DIA.	TYPE	SLOPE	C.Y.T.B.
3	354'	18"	SS, TY-2, RCCP, CL-III	0.26%	205.9
4	20'	10"	SS, PVC, SDR 26	1.00%	0.5
5	55'	12"	SS, PVC, SDR 26	1.00%	4.2
6	35'	12"	SS, PVC, SDR 26	1.00%	3.0
7	20'	10"	SS, PVC, SDR 26	1.00%	0.5
8	316'	24"	SS, TY-2, RCCP, CL-III	0.18%	205.7



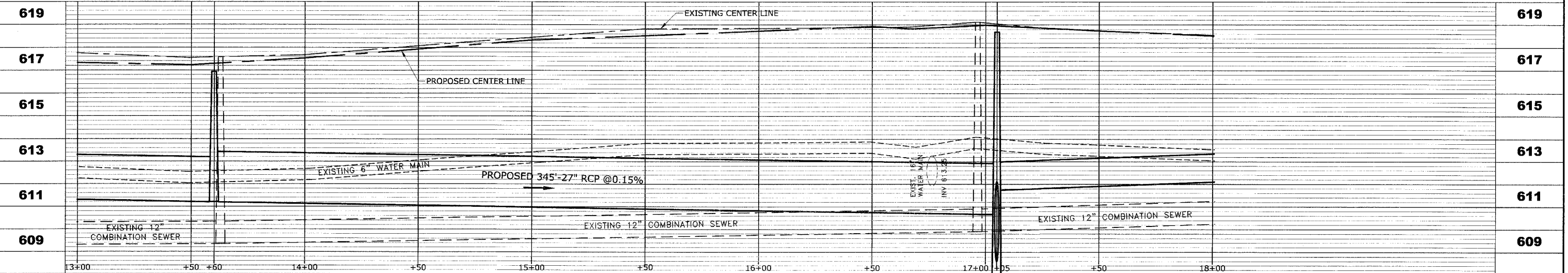
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STRUC. NO.	STA.	OFFSET	TYPE	RIM ELEV.	INV. ELEV.
9	13+48	18' RT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	616.60	612.85 NW
10	13+60	13' RT	R.D. STORM SEWER MANHOLE, 5' DIA., TYPE 1 FRAME, CLOSED LID	616.95	612.70 SE 612.55 SW 611.20 N,S
11	13+50	18' LT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	616.60	612.85 NW
12	16+88	45' LT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.95	614.20 N
13	17+10	45' LT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.95	614.00 S 613.90 SE
14	17+05	20' LT	R.D. STORM SEWER MANHOLE, 5' DIA., TYPE 1 FRAME, CLOSED LID	618.40	613.65 NW 608.75 W 605.50 E
15	17+05	13' RT	BOX STRUCTURE	618.70	611.90 N 610.68 S 608.63 E 605.15 W
16	16+88	45' RT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.95	614.20 N
17	17+10	45' RT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.95	614.00 S
C-3	16+97	0	R.D. COMBINED SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, CLOSED LID	618.99	609.91 N-S



PIPE NO.	LENGTH	DIA.	TYPE	SLOPE	C.Y.T.B.
9	13'	10"	SS,PVC, SDR 26	1.00%	0.5
10	32'	10"	SS,PVC, SDR 26	1.00%	1.4
11	345'	27"	SS,TY-2, RCCP, CL-III	0.15%	269.0
12	22'	10"	SS,PVC, SDR 26	1.00%	0.5
13	25'	12"	SS,PVC, SDR 26	1.00%	1.4
14	30'	42"	SS,TY-2, RCCP, CL-III	0.09%	44.4
15	19'	10"	SS,PVC, SDR 26	1.00%	0.5
16	3'	10"	SS,PVC, SDR 26	1.00%	0.2
17	35'	42"	SS,TY-2, RCCP, CL-III	1.00%	81.9



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**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

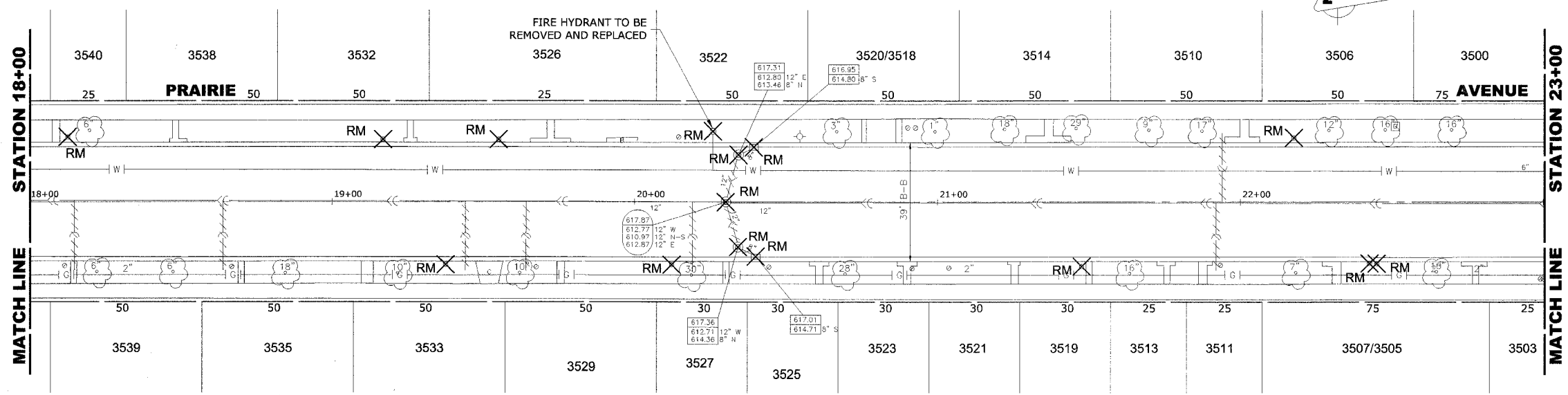
**EXISTING AND PROPOSED
DRAINAGE AND UTILITIES
PLAN AND PROFILE**

SCALE: H: 1"=20', V: 1"=2'
DRAWN BY: MK/LEV
BOOK NO.: #1475, #1504
DATE: 10-6-06
E.H.E. NO.: 125-04-26301

REVISION:

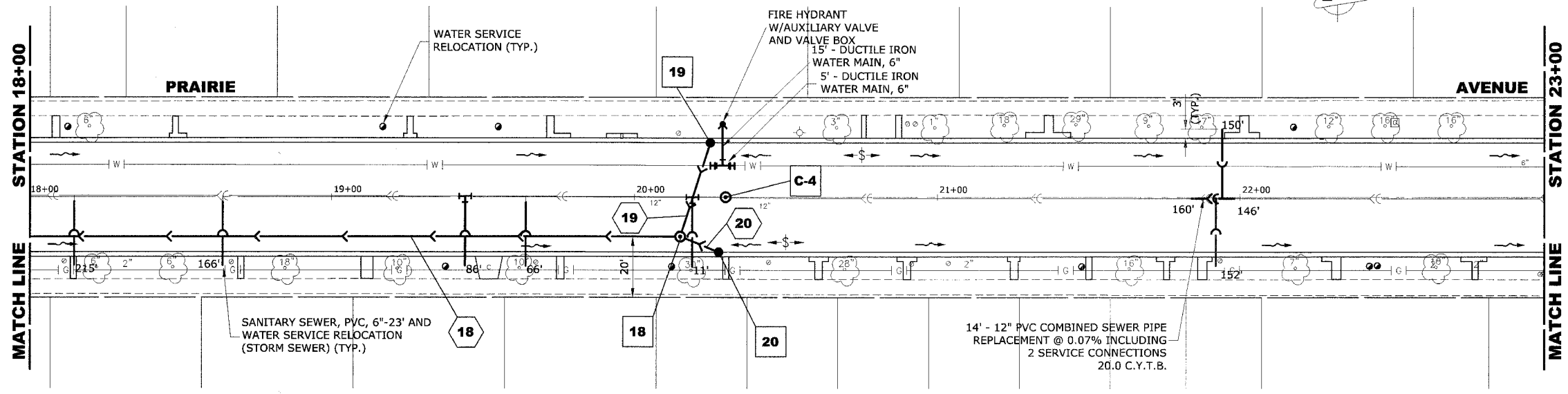
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OF
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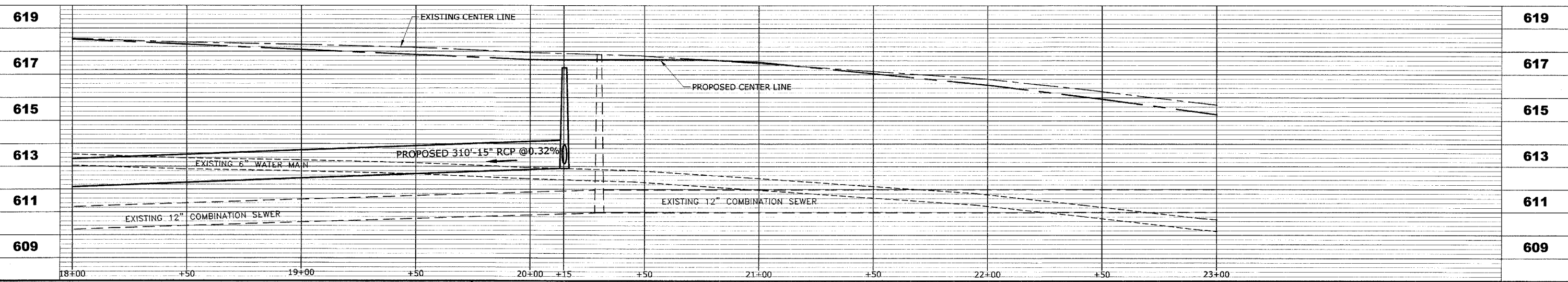
EXISTING TOPOGRAPHY

STRUC. NO.	STA.	OFFSET	TYPE	RIM ELEV.	INV. ELEV.
18	20+15	13' RT	R.D. STORM SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, CLOSED LID	617.30	613.10 NE 612.95 NW 612.90 S
19	20+25	18' LT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.00	613.25 SE
20	20+28	18' RT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	617.00	613.25 SW
C-4	20+30	0	R.D. COMBINED SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, CLOSED LID	617.65	610.97 N-S



PROPOSED IMPROVEMENTS

PIPE NO.	LENGTH	DIA.	TYPE	SLOPE	C.Y.T.B.
18	310'	15"	SS, TY-2, RCCP, CL-III	0.32%	157.4
19	32'	10"	SS, PVC, SDR 26	1.00%	1.3
20	14'	10"	SS, PVC, SDR 26	1.00%	0.5



Drawing file: W:\Projects\12504283 - Prairie Ave 2nd Phase\Prarie\Profile.dwg Oct 05, 2005 - 3:14pm

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 9933 Roosevelt Road
 Westchester, Illinois 60154-2790
 Phone: 708/865-0300
 Fax: 708/865-1212

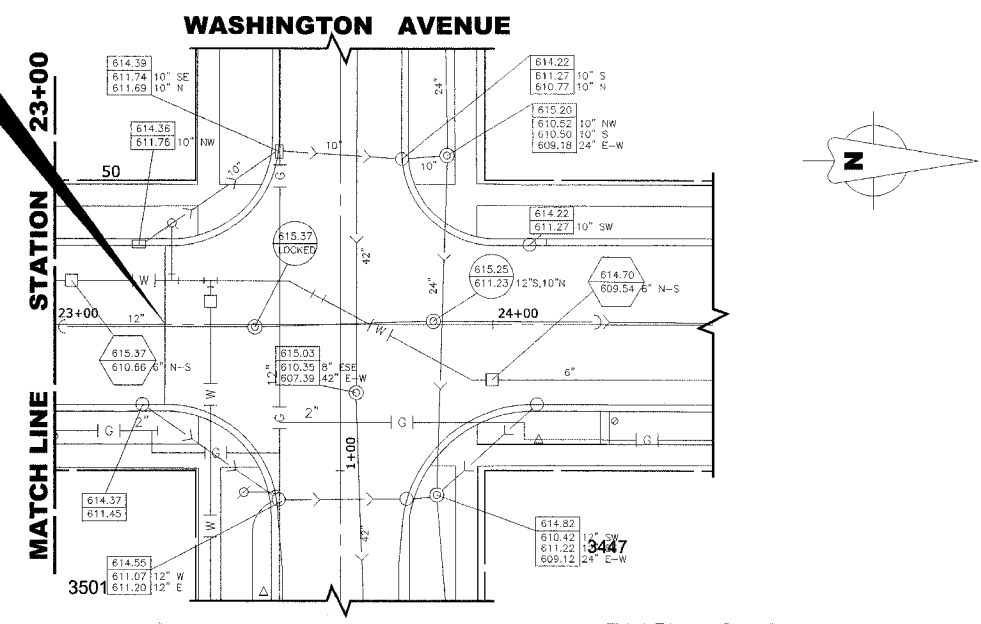
**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

**EXISTING AND PROPOSED
 DRAINAGE AND UTILITIES
 PLAN AND PROFILE**

SCALE: H: 1"=20', V: 1"=2'	SHEET 22 / 47
DRAWN BY: MK/LEV	
BOOK NO.: #1475, #1504	
DATE: 10-6-06	
REVISION:	E.H.E. NO.: 125-04-26301

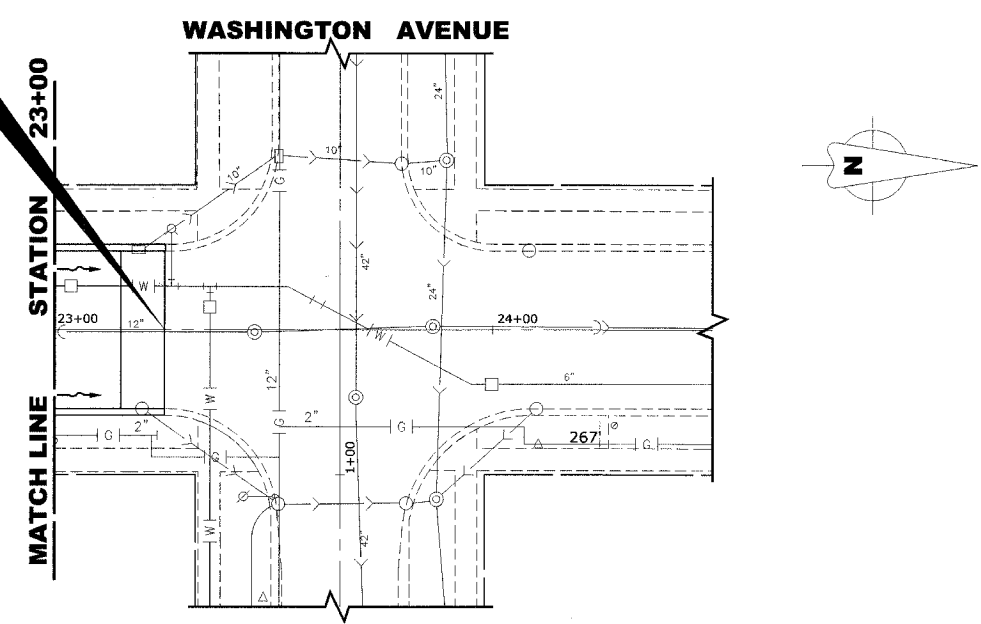
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FAU 2732	**	COOK	47	23
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				

PRAIRIE AVENUE
END IMPROVEMENT
STA. 23+25



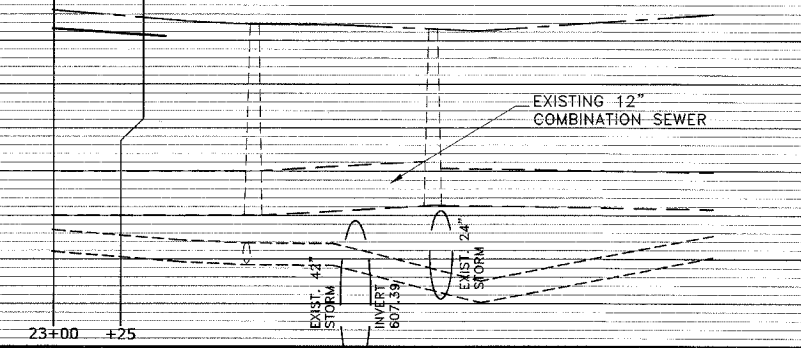
EXISTING TOPOGRAPHY

PRAIRIE AVENUE
END IMPROVEMENT
STA. 23+25



PROPOSED IMPROVEMENTS

619				619
617				617
615				615
613				613
611				611
609				609



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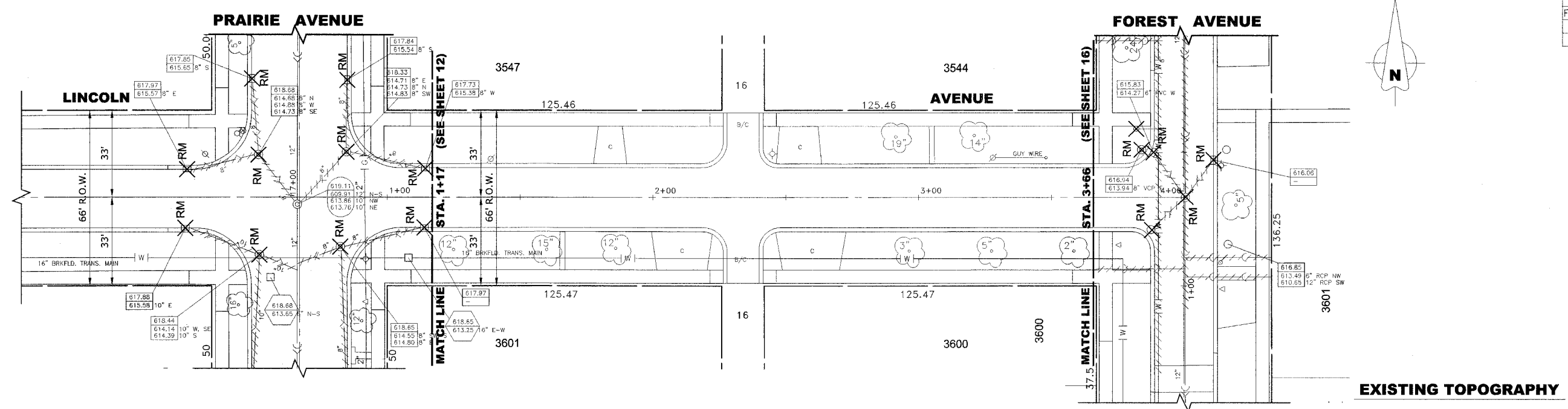
9933 Roosevelt Road
 Westchester, Illinois 60154-2780
 Phone: 708/865-0300
 Fax: 708/865-1212

**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

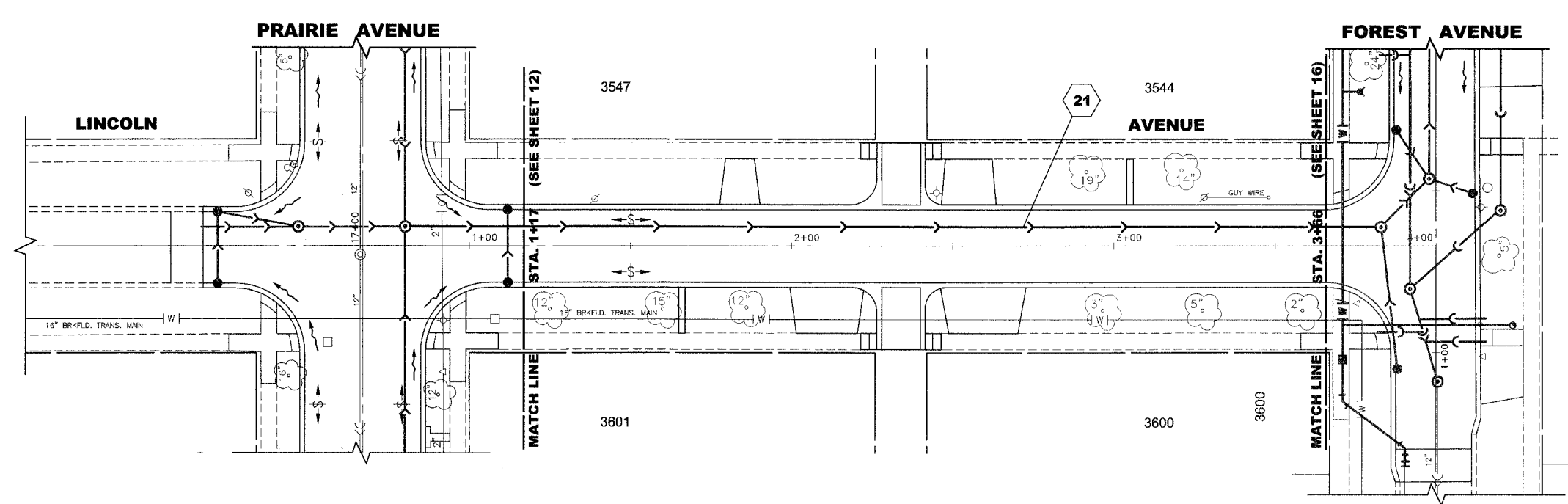
**EXISTING AND PROPOSED
 DRAINAGE AND UTILITIES
 PLAN AND PROFILE**

REVISION:	SCALE: H: 1"=20', V: 1"=2'	SHEET
	DRAWN BY: MK/LEV	23
	BOOK NO.: #1475, #1504	47
	DATE: 10-6-06	
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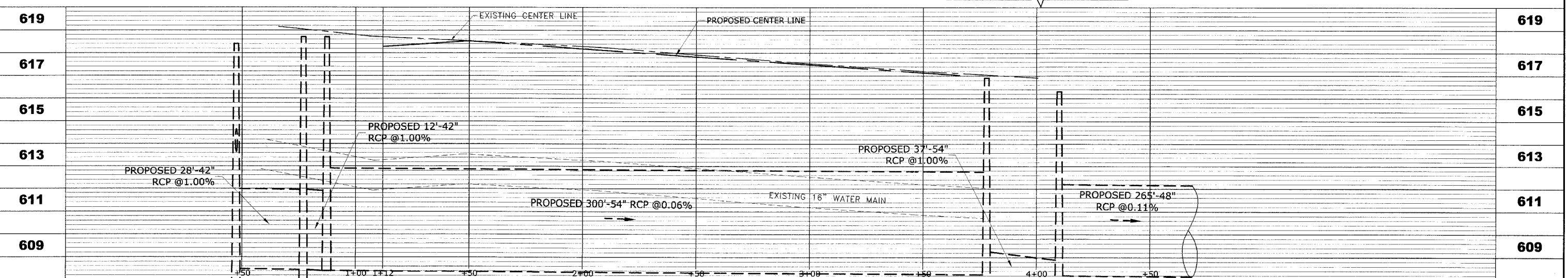


EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS

PIPE NO.	LENGTH	DIA.	TYPE	SLOPE	C.Y.T.B.
21	300'	54"	SS, TY-2, RCCP, CL-III	0.06%	443.8



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**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

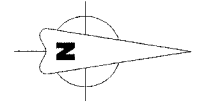
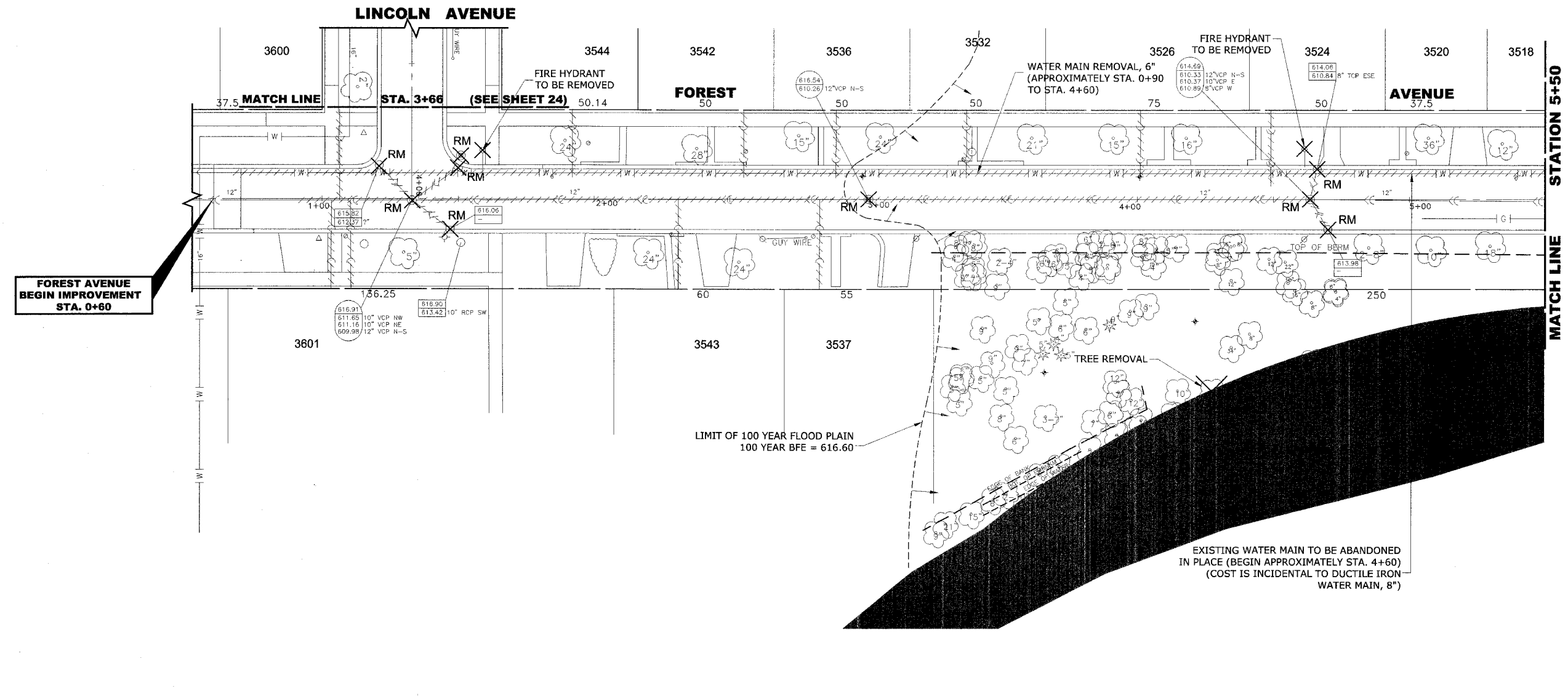
**EXISTING AND PROPOSED
 DRAINAGE AND UTILITIES
 PLAN AND PROFILE**

SCALE: H: 1"=20', V: 1"=2'
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 DATE: 10-6-06
 E.H.E. NO.: 125-04-26301

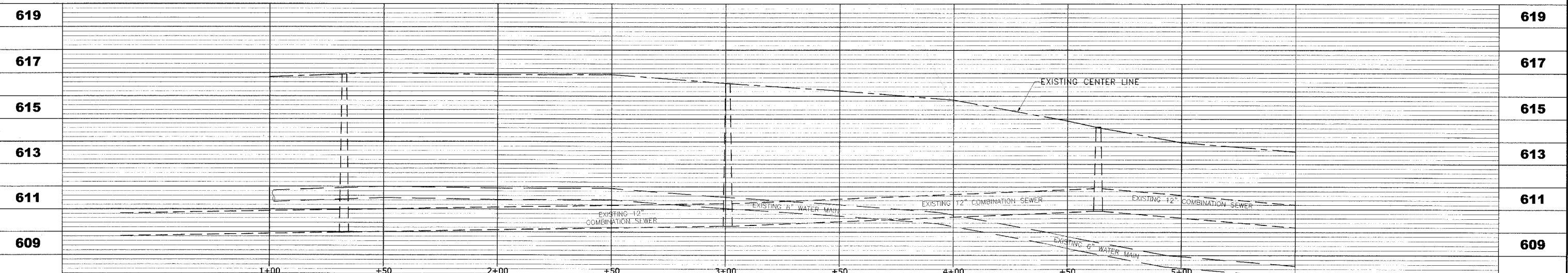
REVISION:

SHEET **24** OF **47**

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EXISTING TOPOGRAPHY



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**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

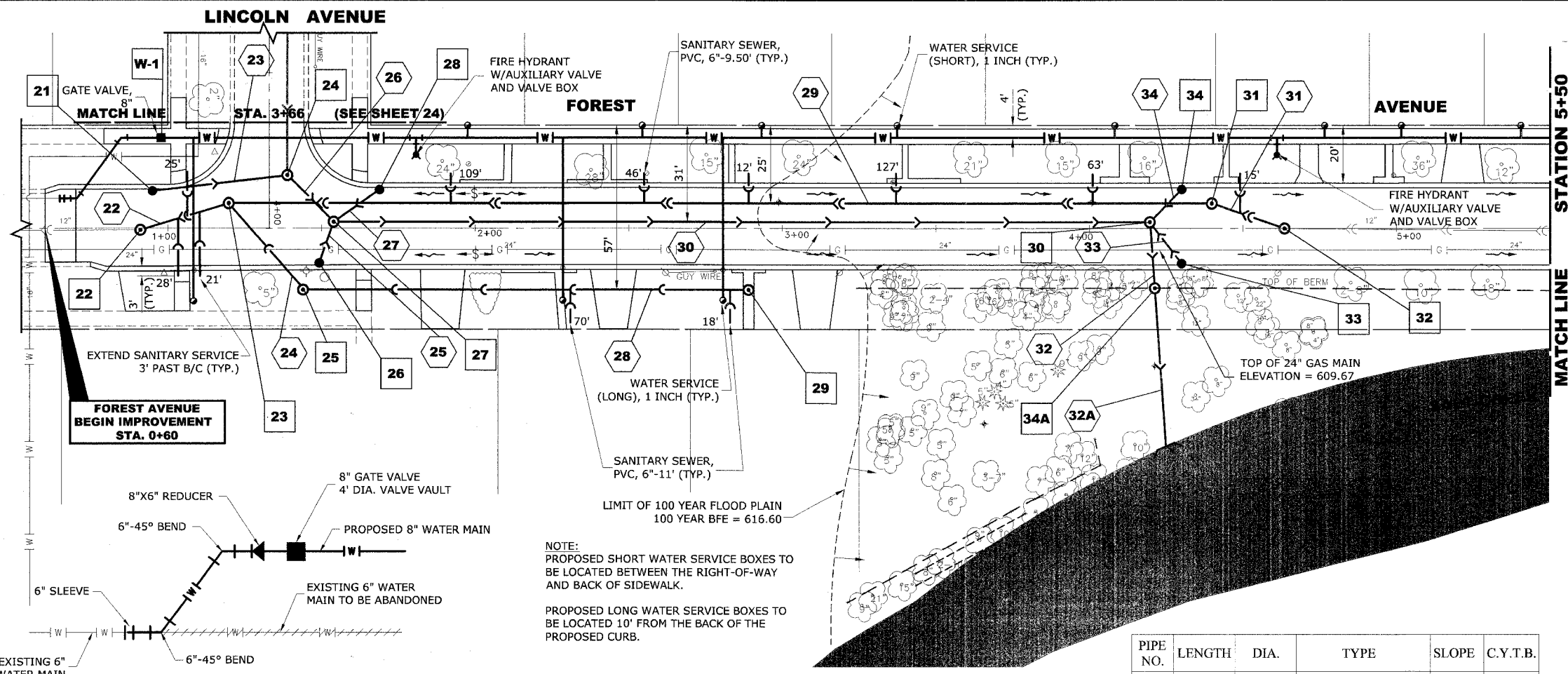
**EXISTING PLAN
DRAINAGE AND UTILITIES**

SCALE: H: 1"=20', V: 1"=2'
DRAWN BY: MK/LEV
BOOK NO.: #1475, #1504
DATE: 10-6-06
E.H.E. NO.: 125-04-26301

REVISION:

SHEET **25** / **47**

Drawing file: W:\Projects\12504263 - Prairie Ave 2nd Phase\Profile\Profile_Side_Roads.dwg Oct 05, 2006 - 3:27pm



STATION 5+50
MATCH LINE

STA.	OFFSET	TYPE	RIM ELEV.	INV. ELEV.	
21	0+95	12.5' LT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	616.20	612.45 N
22	0+91	0.5' RT	R.D. COMBINED SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, CLOSED LID	616.70	609.94 NW,S
	1+20	8' RT	R.D. COMBINED SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, CLOSED LID	617.10	610.00 NE 609.97 N,SE
24	1+39	17' LT	STORM SEWER MANHOLE, 9' DIA., TYPE A, TYPE 1 FRAME, CLOSED LID	616.90	612.00 S 608.45 W 604.50 NE
25	1+44	20' RT	R.D. SANITARY SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, CLOSED LID	616.75	610.10 N,SW
26	1+49	11.5' RT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	616.15	612.40 NW
27	1+54	2' LT	STORM SEWER MANHOLE, 9' DIA., TYPE A, TYPE 1 FRAME, CLOSED LID	616.80	612.40 NW 612.25 E 608.36 N 604.30 SW
28	1+69	12.5' LT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	616.30	612.55 SE
29	2+89	20' RT		617.20	610.54 S
30	4+20	2' LT	BOX STRUCTURE	615.55	611.50 NW 611.10 NE 608.08 S 602.08 E
31	4+40	8' LT		614.90	610.30 NE,S
32	4+64	0	R.D. COMBINED SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, WATER TIGHT BOLT DOWN LID	614.90	610.33 N,SW
33	4+30	11.5' LT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	615.00	611.25 SW
34	4+30	11.5' RT	R.D. CATCH BASIN, 4' DIA. TYPE 1 FRAME, OPEN LID	615.00	611.65 SE
34A	4+20	20' RT	STORM SEWER MANHOLE, 9' DIA., TYPE A, TYPE 1 FRAME, CLOSED LID	617.50	601.85 W 608.05 E
W1	0+97	31' LT	VALVE VAULT, TYPE A, 4' DIA., TYPE 1 FRAME, CLOSED LID	617.50	-

PIPE NO.	LENGTH	DIA.	TYPE	SLOPE	C.Y.T.B.
28	145'	8"	SAN. SEW.,PVC, SDR 26	0.30%	63.8
29	320'	12"	SAN. SEW.,PVC, SDR 26	0.10%	100.3
30	265'	48"	SS,TY-2, RCCP, CL-III	0.11%	286.7
31	23'	12"	SAN. SEW.,PVC, SDR 26	0.13%	1.8
32	23'	48"	SS,TY-2, RCCP, CL-III	1.00%	30
32A	50'	48"	SS,TY-2, RCCP, CL-III	0.11%	0
33	15'	10"	SS, PVC, SDR26	1.00%	0.3
34	15'	10"	SS, PVC, SDR26	1.00%	0.3

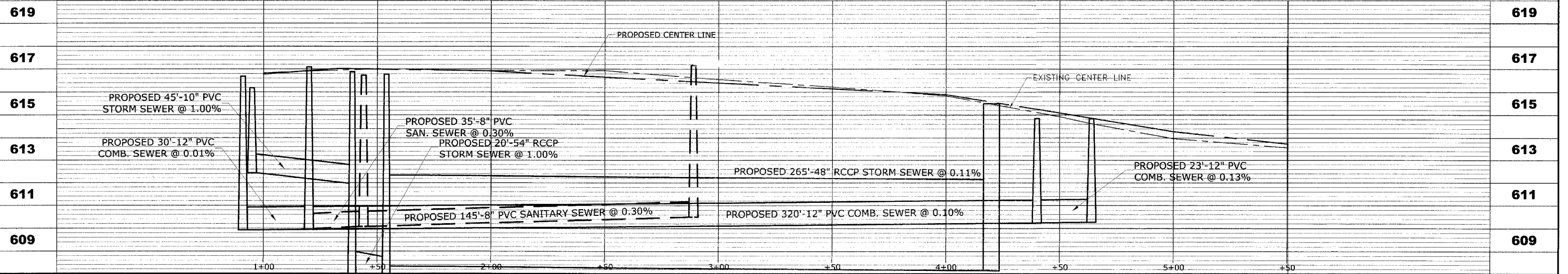
DETAIL OF CONNECTION TO EXISTING WATER MAIN AT LINCOLN AVENUE

PIPE NO.	LENGTH	DIA.	TYPE	SLOPE	C.Y.T.B.
22	30'	12"	SAN. SEW.,PVC, SDR 26	0.10%	14.2
23	45'	10"	SS, PVC, SDR 26	1.00%	1.7
24	35'	8"	SAN. SEW.,PVC, SDR 26	0.30%	16.0
25	15'	10"	SS, PVC, SDR 26	1.00%	0.3
26	20'	54"	SS, TY-2, RCCP, CL-III	1.00%	47.0
27	15'	10"	SS, PVC, SDR26	1.00%	0.3

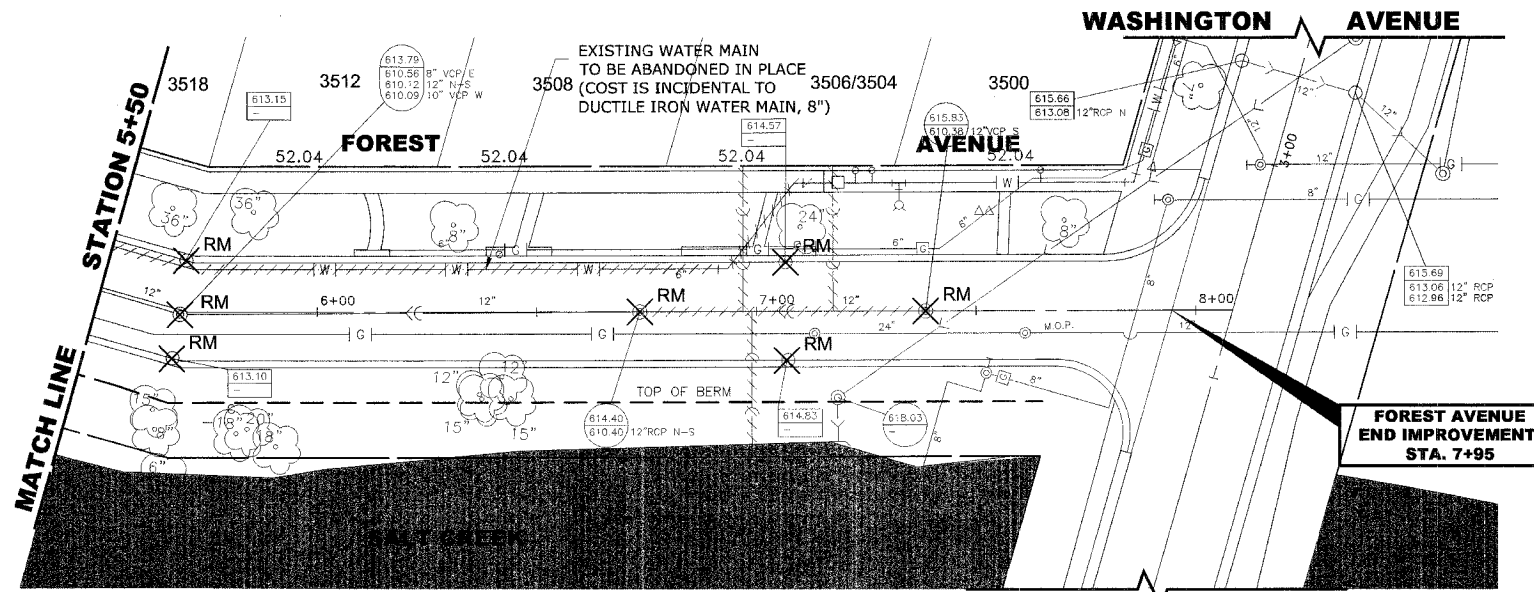
NOTE:
PROPOSED SHORT WATER SERVICE BOXES TO BE LOCATED BETWEEN THE RIGHT-OF-WAY AND BACK OF SIDEWALK.
PROPOSED LONG WATER SERVICE BOXES TO BE LOCATED 10' FROM THE BACK OF THE PROPOSED CURB.

- GENERAL NOTE:
- PORTIONS OF THE EXISTING WATER MAIN MAY HAVE TO BE REMOVED TO ALLOW FOR THE INSTALLATION OF THE PROPOSED COMBINED SEWER. THIS WORK WILL BE PAID FOR UNDER THE ITEM FOR WATER MAIN REMOVAL, 6".
 - PORTIONS OF THE EXISTING COMBINED SEWER MAY HAVE TO BE REMOVED TO ALLOW FOR THE INSTALLATION OF THE PROPOSED STORM SEWER. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE ITEM FOR 54" STORM SEWER INSTALLATION.
 - THE UTILITIES ALONG FOREST AVENUE SHALL BE INSTALLED IN THE FOLLOWING SEQUENCE:
1) WATER MAIN
2) SANITARY/COMBINED SEWERS
3) STORM SEWER

PROPOSED IMPROVEMENTS

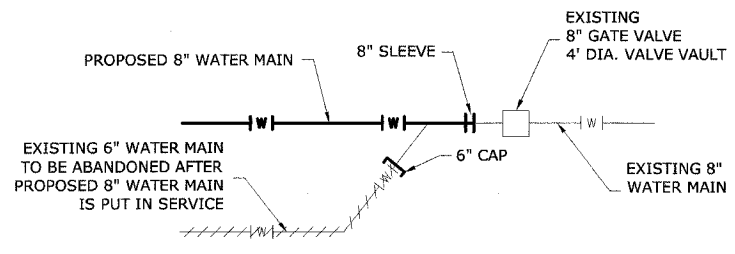


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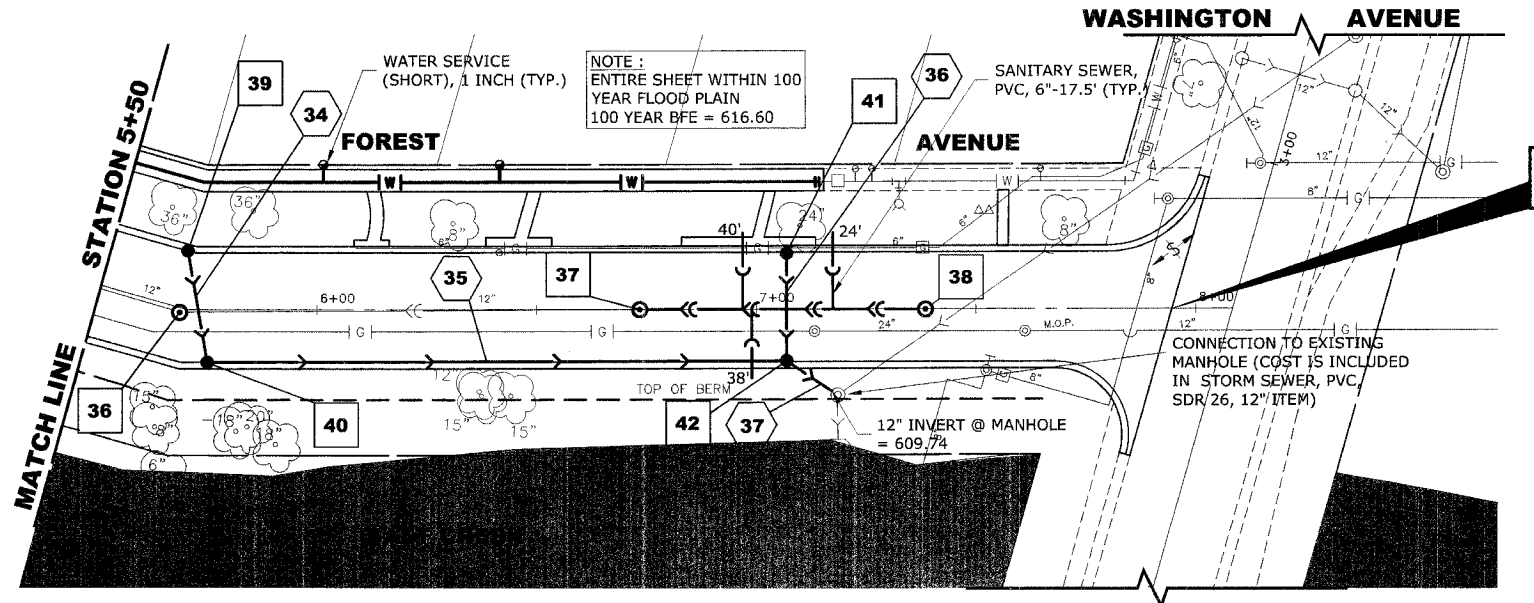


STRUC. NO.	STA.	OFFSET	TYPE	RIM ELEV.	INVERT ELEV.
36	5+69	1' RT.	R.D. COMBINED SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, WATER TIGHT BOLT DOWN CLOSED LID	613.60	610.70 E,W 610.12 N-S
37	6+74	0	R.D. COMBINED SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, WATER TIGHT BOLT DOWN CLOSED LID	614.40	610.40 N-S
38	7+39	0	R.D. COMBINED SEWER MANHOLE, 4' DIA., TYPE 1 FRAME, WATER TIGHT BOLT DOWN CLOSED LID	615.75	610.40 S
39	5+67	12.5' LT.	R.D. CATCH BASIN, 4' DIA., TYPE 1 FRAME, OPEN LID	613.20	610.80 E
40	5+75	11.5' RT.	R.D. CATCH BASIN, 4' DIA., TYPE 1 FRAME, OPEN LID	613.20	610.60 W 610.50 N
41	7+07	12.5' LT.	R.D. CATCH BASIN, 4' DIA., TYPE 1 FRAME, OPEN LID	614.60	611.80 E
42	7+07	11.5' RT.	R.D. CATCH BASIN, 4' DIA., TYPE 1 FRAME, OPEN LID	614.60	611.55 W 609.89 S,NE

EXISTING TOPOGRAPHY

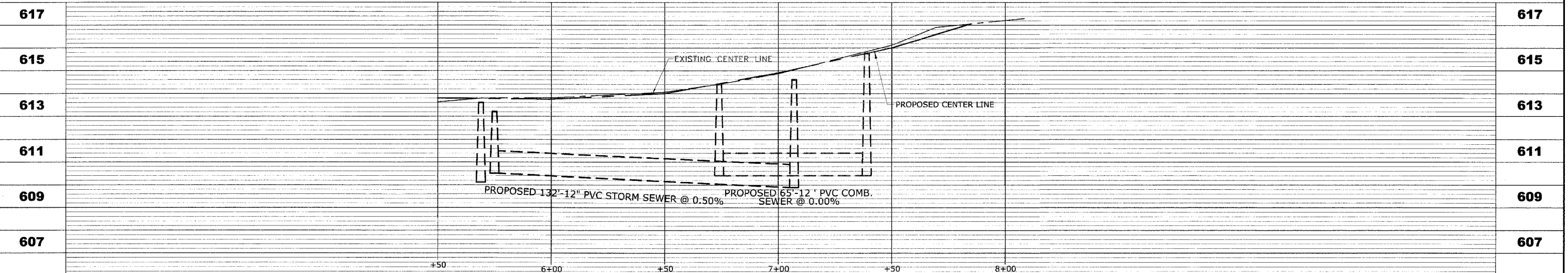


DETAIL OF CONNECTION TO EXISTING WATER MAIN AT WASHINGTON AVENUE



PIPE NO.	LENGTH	DIA.	TYPE	SLOPE	C.Y.T.B.
34	20'	8"	SS,PVC, SDR 26	1.00%	0.20
35	132'	12"	SS,PVC, SDR 26	0.50%	15.0
36	25'	10"	SS,PVC, SDR 26	1.00%	0.20
37	15'	12"	SS,PVC, SDR 26	1.00%	0.38

PROPOSED IMPROVEMENTS



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 Oct 05, 2006 - 3:26pm

M.W.R.D.G.C. GENERAL NOTES

1. THE MWRDGC LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK AT (708) 588-4055.
2. ELEVATION DATUM IS U.S.G.S.
3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
4. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE INTO THE STORM SEWER SYSTEM.
5. ALL PVC STORM, COMBINED, AND SANITARY SEWER PIPE JOINTS SHALL CONFORM TO ASTM D-3139, AND THE PIPE SHALL CONFORM TO ASTM D-2241. ALL PVC SEWER PIPE SHALL BE SDR 26. ALL RCCP SEWER TO MEET ASTM C-76 AND JOINTS SHALL CONFORM TO ASTM C-443.
6. ALL SANITARY SEWER CONSTRUCTION, AND ALSO STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS, REQUIRES STONE BEDDING 1/2" TO 1" IN SIZE, WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR INCHES (4") NOR MORE THAN EIGHT INCHES (8"). MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC PIPE.
7. "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE OF DISSIMILAR MATERIALS.
8. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 - 1) CIRCULAR SAW-CUT OF SEWER MAIN BY MECHANICAL CORING MACHINE, AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - 2) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION. AFTER THE WYE OR TEE BRANCH IS INSERTED, CONCRETE SHALL BE PLACED OVER THE BROKEN AREA TO A MINIMUM THICKNESS OF 4" AND TO A DIMENSION OF 8" IN ALL DIRECTIONS.
 - 3) USING PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING. USE "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THE INSTALLATION.
9. WHEREVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/ COMBINED SEWERS AND WATER MAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATER MAIN LOCATED AT THE OPPOSITE SIDE ON BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS.
10. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
11. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
12. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FOOT LONG, NON-SHRINK CONCRETE/MORTAR PLUG.
13. ALL INLET AND OUTLET PIPES OF SANITARY SEWER MANHOLES AND OTHER UNDERGROUND STRUCTURES (IN COMBINED SEWER AREAS, ALSO INCLUDED ARE ALL COMBINED/STORM SEWER MANHOLES, CATCH BASINS, INLETS, AND UNDERGROUND DETENTION STORAGE STRUCTURES) SHALL BE JOINED WITH WATERTIGHT FLEXIBLE RUBBER CONNECTORS CONFORMING TO ASTM C-443 AND C-923 WITH STAINLESS STEEL BAND.

DRAINAGE AND UTILITIES NOTES

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, COMBINED SEWERS, TELEPHONE LINES, COMMUNICATION LINES, ELECTRIC LINES, GAS MAINS, AND WATER SERVICES ARE APPROXIMATE AND THEIR SPECIFIC LOCATIONS ARE TO BE DETERMINED IN THE FIELD AT NO COMPENSATION TO THE CONTRACTOR.

COORDINATION OF ALL UTILITY WORK INVOLVED WITHIN THE CONSTRUCTION AREAS SHALL BE SUBJECT TO DISCUSSION AND CLARIFICATION AT A PRECONSTRUCTION MEETING.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINAGE STRUCTURES OR SEWERS UNTIL PERMANENT CONNECTIONS TO SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

WHEN, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINES OF GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE OBSTRUCTING MATERIALS SHALL BE REMOVED AT THE CLOSE OF EACH WORK DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES ARE TO BE FREE OF ALL DIRT, DEBRIS, AND OBSTRUCTING MATERIALS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

ALL COSTS INVOLVED IN CONNECTING OF PROPOSED STORM SEWERS AND STORM STRUCTURES TO EXISTING STORM SEWERS OR PROPOSED STORM SEWERS SHALL BE CONSIDERED INCIDENTAL TO THE PROPOSED ITEMS BEING CONSTRUCTED.

ALL PROPOSED WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", FIFTH EDITION, DATED 1996, AND ALL REVISIONS THERETO.

THE CONTRACTOR SHALL VERIFY THE TYPE OF ALL WATER MAIN HARDWARE INCLUDING VALVES, FIRE HYDRANTS, VALVE BOXES, CORPORATION STOPS, CURB STOPS, AND WATER SERVICES BOXES WITH THE UTILITY SUPERINTENDENT PRIOR TO ORDERING SUCH MATERIAL.

THE TYPE OF FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLES LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 604.01 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE.

ON ALL IMPROVEMENTS, THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES, AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF BROOKFIELD AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF BROOKFIELD PUBLIC WORKS YARD LOCATED AT 4545 EBERLY AVENUE.

ANY COSTS FOR SHEETING OR SHORING REQUIRED FOR THE STORM SEWER INSTALLATION OR OTHER CONSTRUCTION ELEMENTS REQUIRING RELATIVELY DEEP EXCAVATIONS SHALL BE INCLUDED IN THE PARTICULAR PAYMENT ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY SUPPLEMENTAL WORK ASSOCIATED WITH THE MAINTENANCE OF TRENCH SIDES OR OTHER EXCAVATED AREAS.

UNLESS OTHERWISE SPECIFIED, ABANDONED SEWERS AND DRAINS, AS DESIGNATED BY THE ENGINEER, SHALL BE PLUGGED WITH CLASS "SI" CONCRETE OR BRICK AND SUITABLE MORTAR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEMS FOR REMOVING AND/OR FILLING THE VARIOUS TYPES OF STRUCTURES.

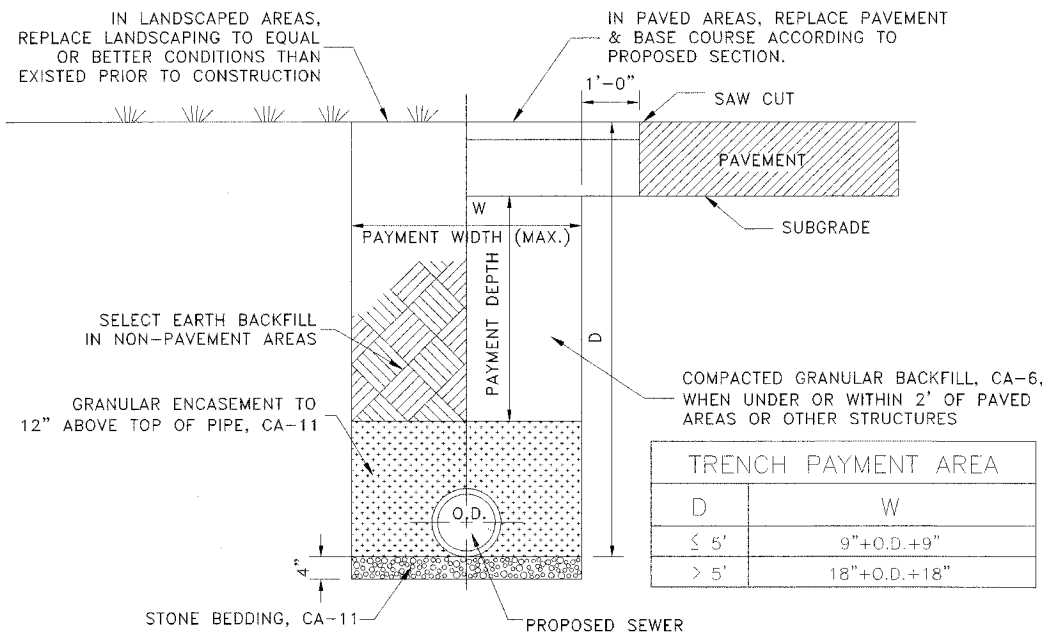
SEWER PIPE INSTALLED ON THIS PROJECT SHALL CONFORM TO THE FOLLOWING STANDARD:

TYPE OF PIPE	MATERIAL STANDARD	JOINT STANDARD
REINFORCED CONCRETE PIPE	ASTM C-76	ASTM C-361
POLYVINYLCHLORIDE PIPE (8"-12")	ASTM D-2241	ASTM D-3139
POLYVINYLCHLORIDE PIPE (6"-15")	ASTM D-3034	ASTM D-3212

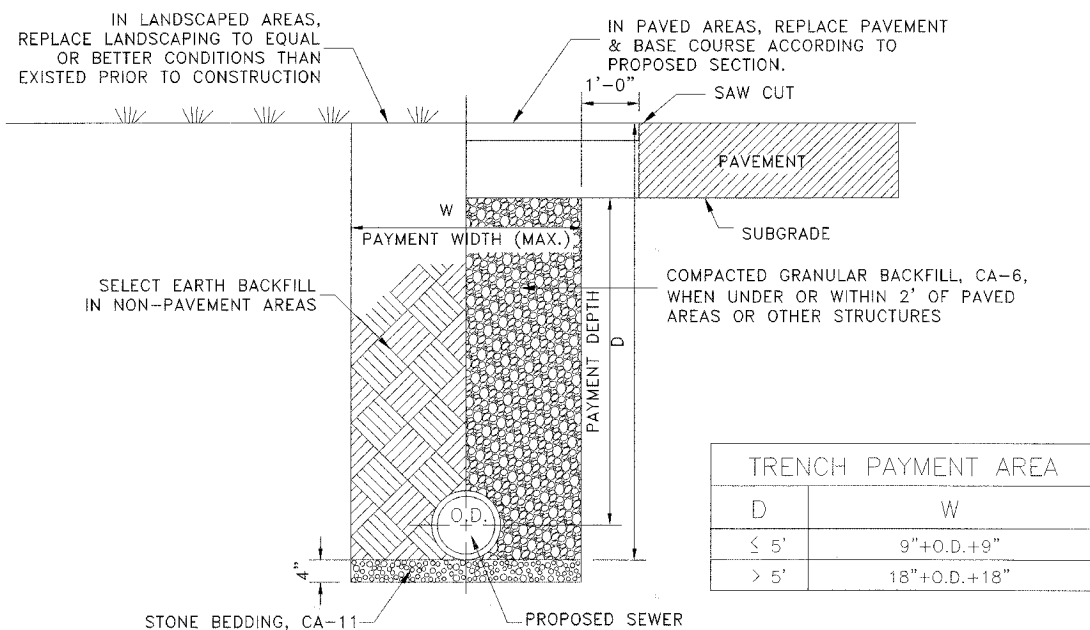
FINAL ADJUSTMENT OF ALL STRUCTURES IN THE PAVEMENT, INCLUDING THOSE IN THE PROPOSED BASE COURSE, SHALL NOT BE COMPLETED UNTIL AFTER THE PLACEMENT OF THE BITUMINOUS CONCRETE BINDER COURSE.

THE AREA WITHIN THE ROUNDOUT SHALL BE FILLED WITH CRUSHED STONE AND A MINIMUM OF 1/2" THICK BITUMINOUS MATERIAL APPROVED BY THE ENGINEER. COST IS TO BE INCLUDED IN THE RESPECTIVE PAY ITEM FOR THE NEW, ADJUSTED OR RECONSTRUCTED STRUCTURE.

A 3 FOOT PIECE OF PIPE UNDERDRAIN SHALL BE INSTALLED IN EACH DIRECTION PARALLEL TO THE CURB AND GUTTER AT EACH DRAINAGE STRUCTURE.

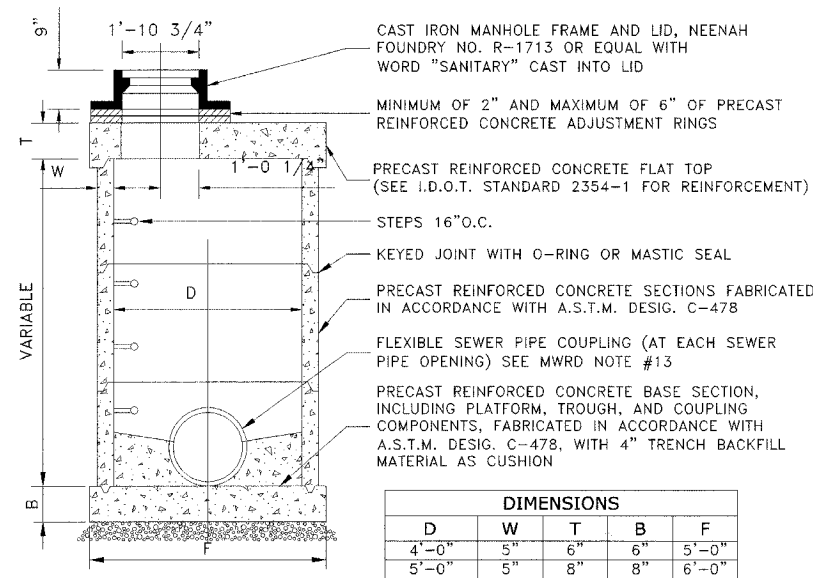


TYPICAL PVC SEWER TRENCH DETAIL

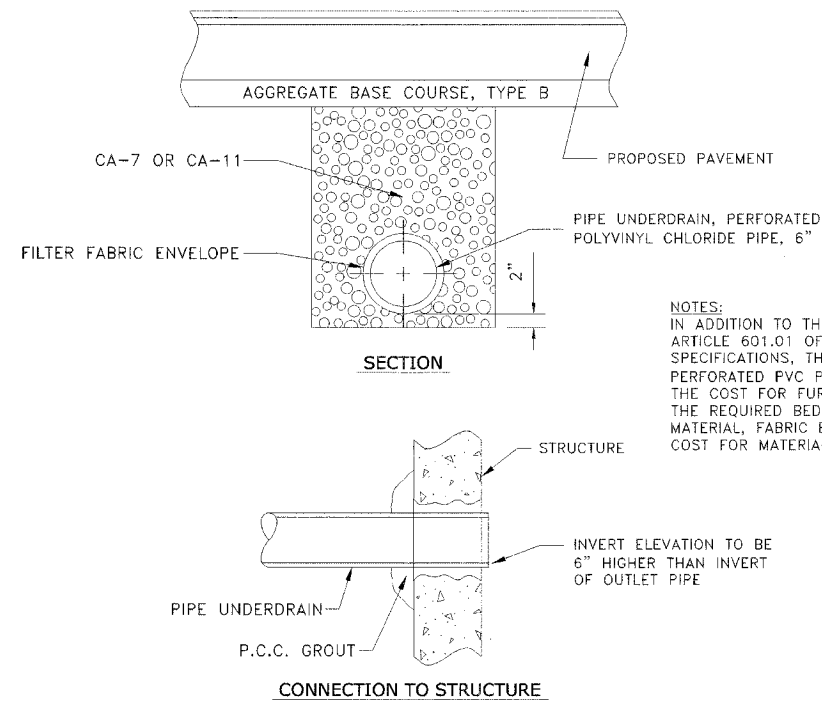


TYPICAL RCCP SEWER TRENCH DETAIL

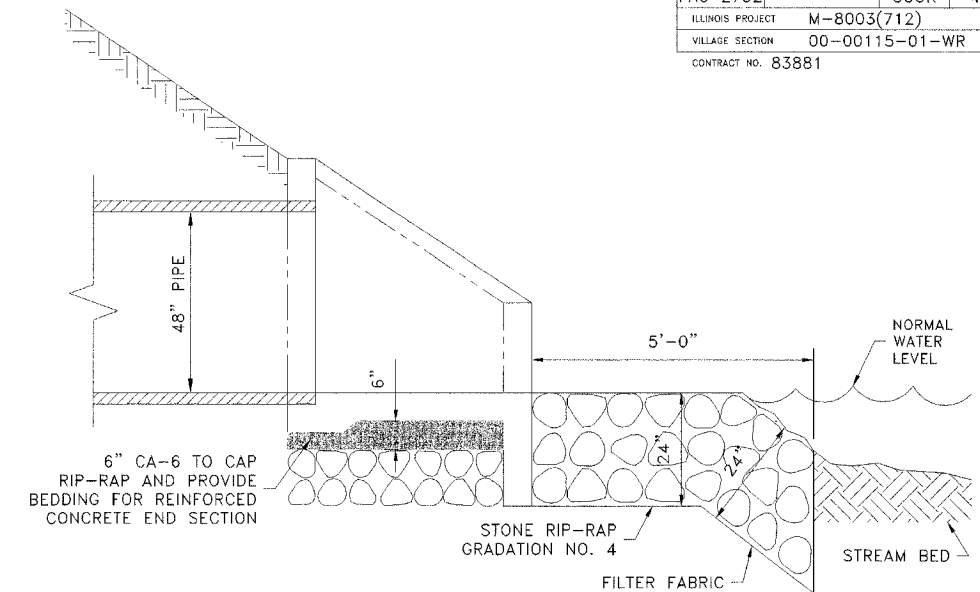
Drawing File: W:\Projects\2504263 - Prairie Ave 2nd Phase\2ND Project\Drainage-Detail.dwg Oct 05, 2006 - 2:32pm



RESTRICTED DEPTH COMBINED MANHOLE



PIPE UNDERDRAIN DETAIL



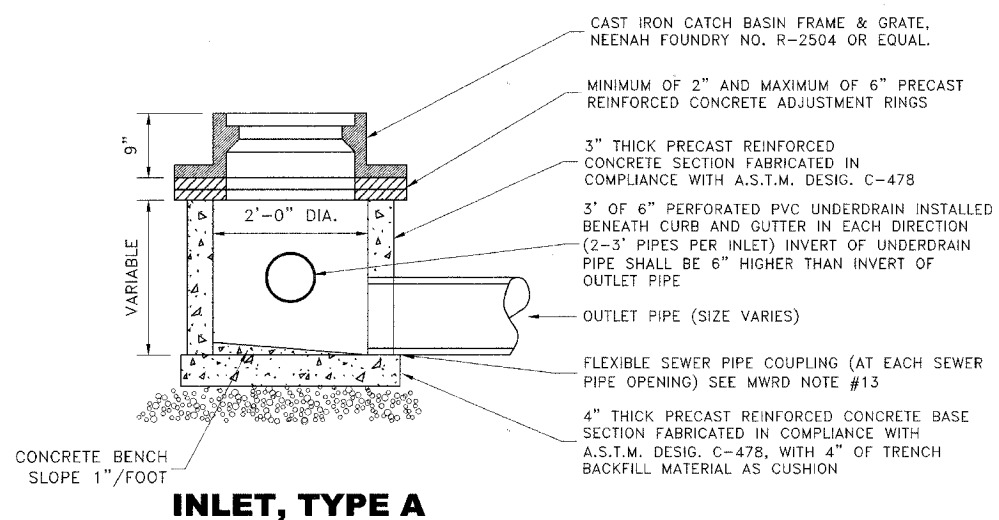
48" REINFORCED CONCRETE END SECTION RIP-RAP DETAIL

NOTES:

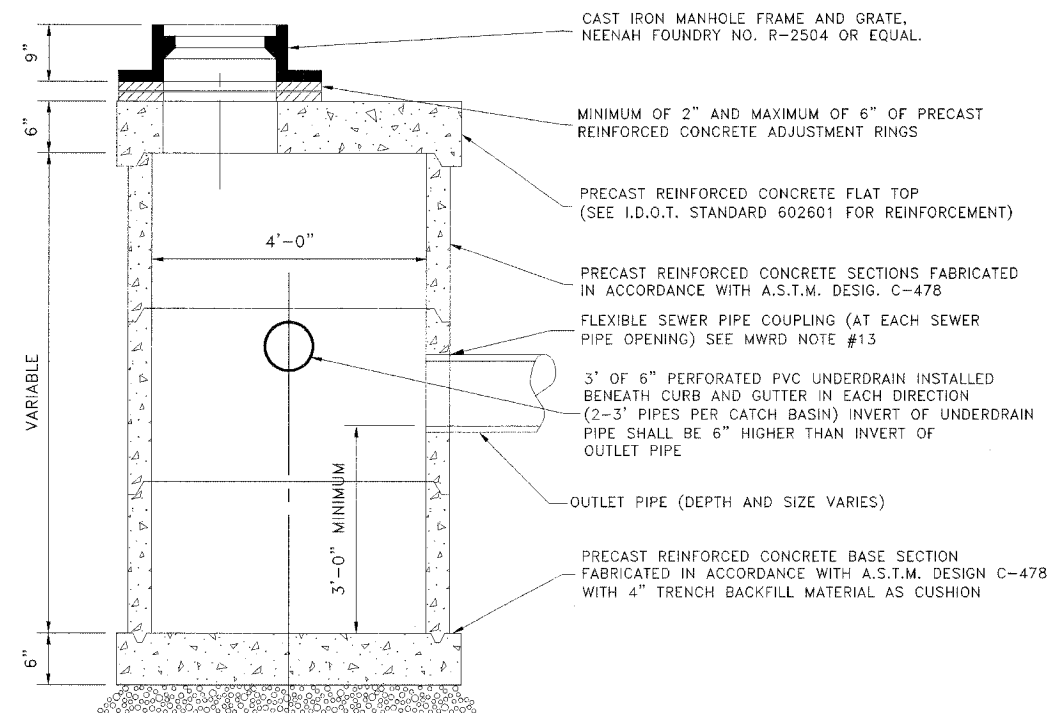
1. NEENAH NO. R-5050-SF54 AUTOMATIC DRAINAGE GATE TO BE ATTACHED TO 48" STORM SEWER OUTLET PIPE. SEE I.D.O.T. STANDARD 542106-1 FOR END SECTION DETAIL.

DUCTILE IRON PIPE SPECIFICATIONS

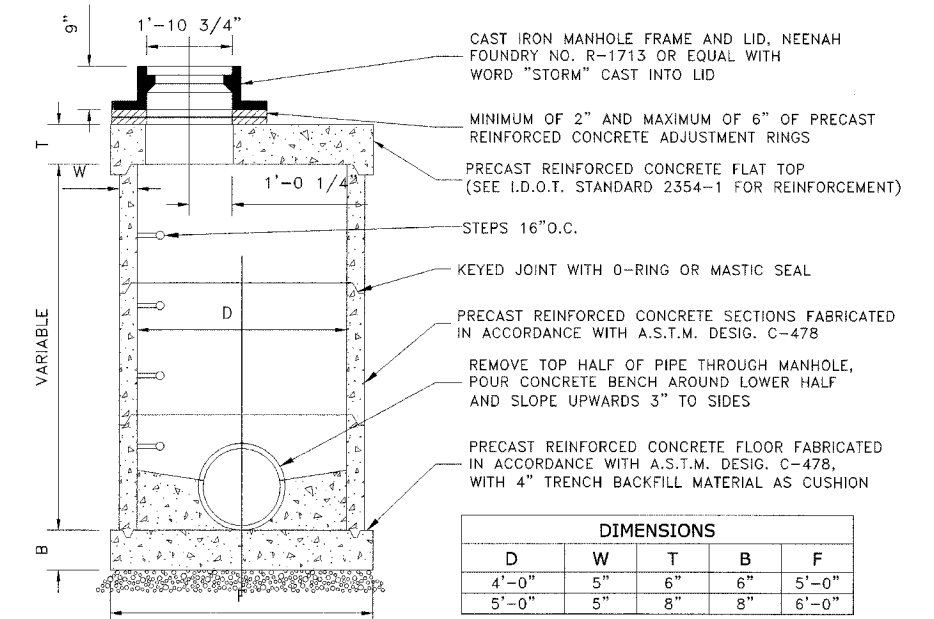
- ALL DUCTILE IRON PIPE WATER MAINS AND SEWER MAINS SHALL BE CLASS 52, CEMENT-LINED AND TAR-COATED, MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C151/A21.51 WITH "PUSH-ON" JOINTS MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C111/A21.11. WHERE SPECIFIED ON THE PLANS, OR IN THE SPECIFICATIONS, MECHANICAL JOINTS AND "LOCK-TYPE" JOINTS SHALL BE USED IN LIEU OF "PUSH-ON" JOINTS.
- ALL PIPE FITTINGS AND SPECIAL CASTINGS SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C153/A21.53 AND ANSI/AWWA C111/A21.11 SPECIFICATIONS AND SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS 150 DUCTILE IRON PIPE. IF CERTAIN FITTINGS ARE NOT MANUFACTURED IN DUCTILE IRON, CAST IRON FITTINGS SHALL BE ACCEPTABLE. MECHANICAL JOINT TYPE FITTINGS SHALL BE USED.
- ALL PROPOSED DUCTILE IRON PIPE WATER MAIN AND SEWER MAIN WILL BE ENCASED WITHIN FOUR (4) MIL THICK, HIGH-DENSITY POLYETHYLENE TUBING. ALL FITTINGS SHALL BE ENCASED IN A DOUBLE-LAYER OF POLYETHYLENE TUBING. THE POLYETHYLENE MATERIAL SHALL BE MANUFACTURED AND INSTALLED IN COMPLIANCE WITH ANSI/AWWA C105/A21.5. ALL PROPOSED WATER AND SEWER SERVICES SHALL BE ENCASED IN POLYETHYLENE TUBING FOR A MINIMUM DISTANCE OF THREE FEET (3') FROM THE PROPOSED WATER MAIN AND SEWER MAIN.



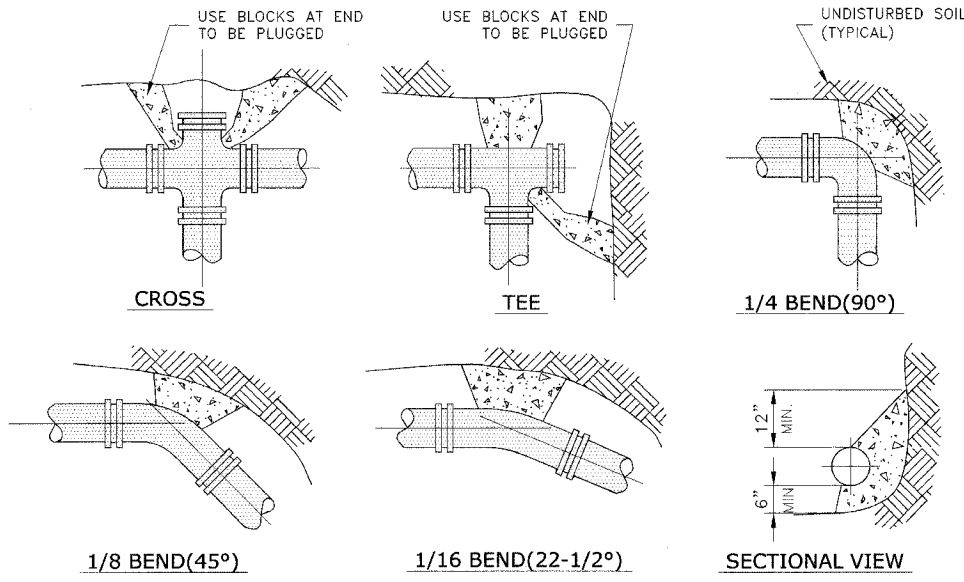
INLET, TYPE A



RESTRICTED DEPTH CATCH BASIN



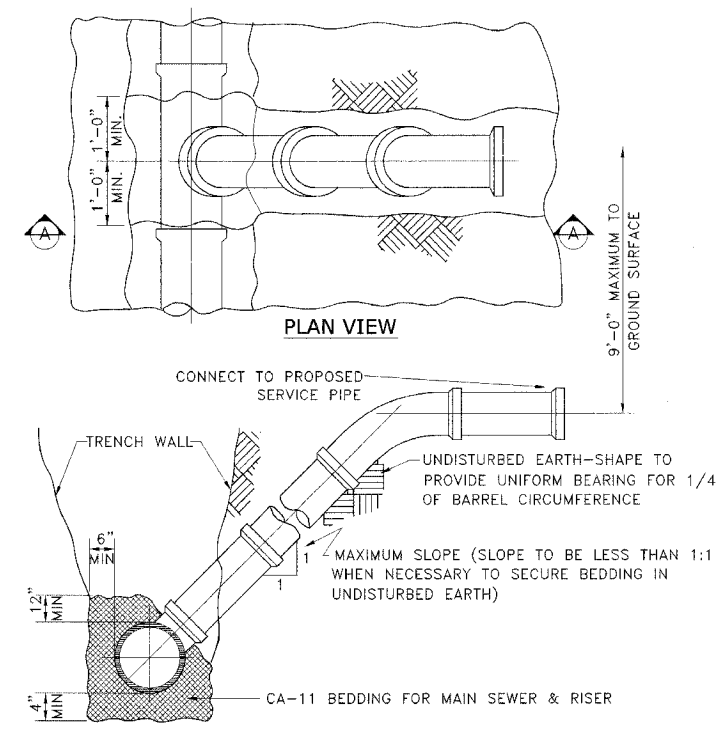
RESTRICTED DEPTH STORM MANHOLE



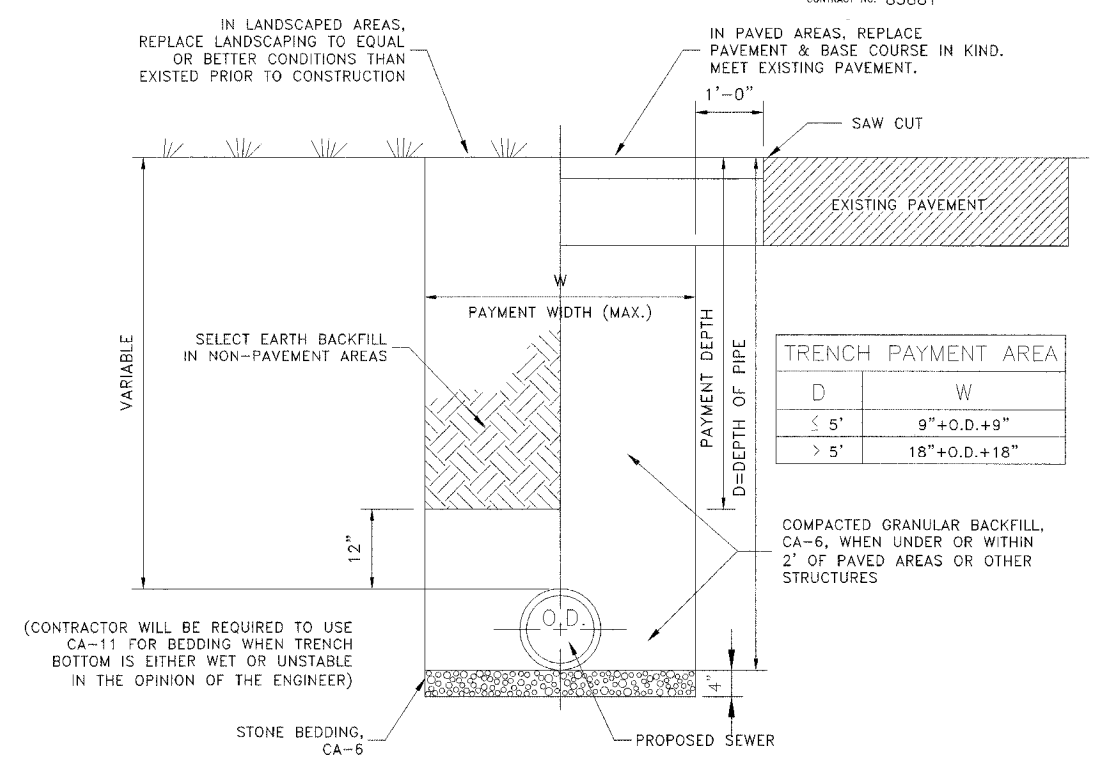
NOTE:

1. THRUST BLOCKS TO BE USED AT 1/16(22-1/2°) OR GREATER BENDS & AT ALL ENDS TO BE PLUGGED.
2. PRECAST CONCRETE THRUST BLOCKS TO BE PLACED AGAINST FIRM, UNDISTURBED SOIL.

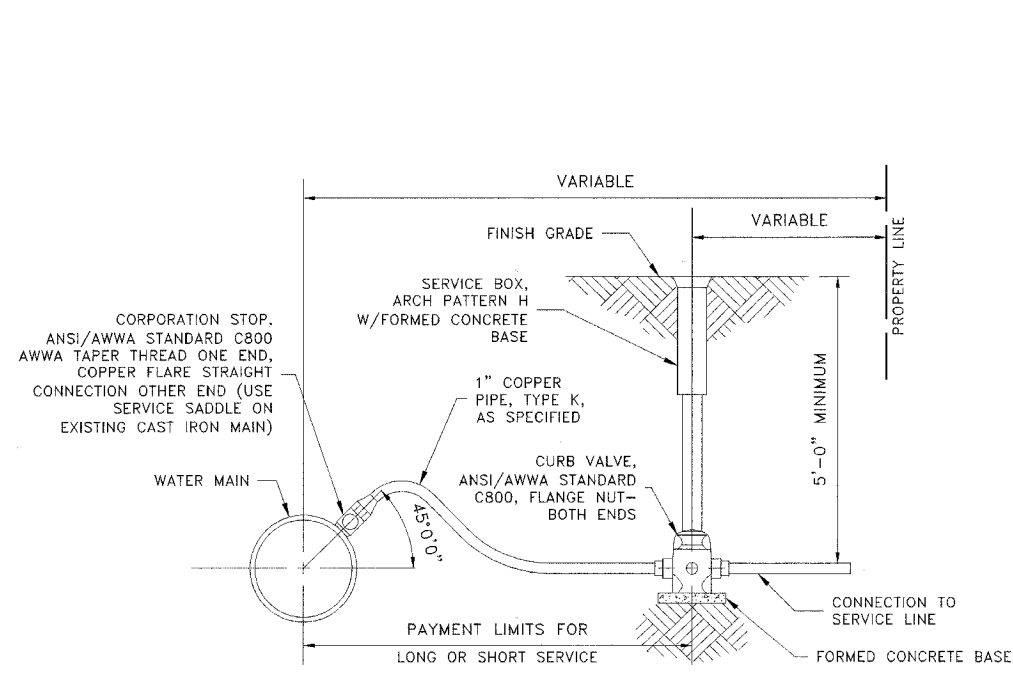
THRUST BLOCK DETAIL



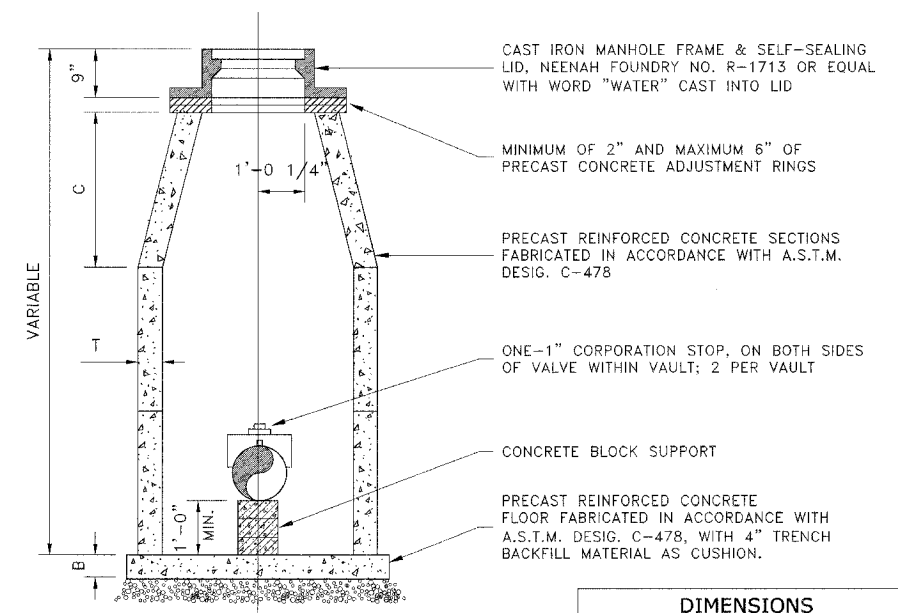
TYPICAL RISER FOR SERVICE LATERAL



TYPICAL WATER MAIN TRENCH DETAIL

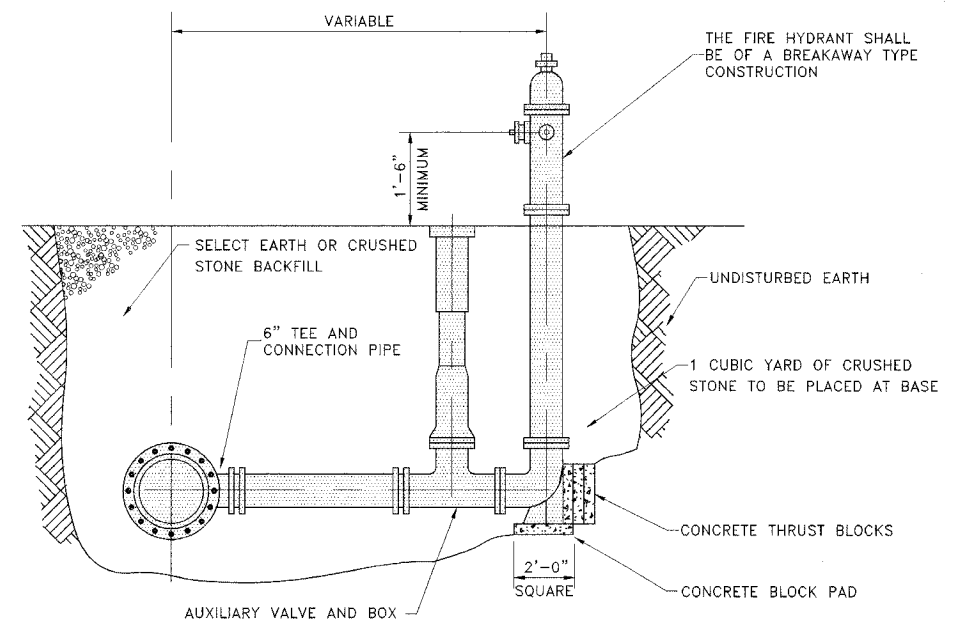


TYPICAL WATER SERVICE DETAIL



DIMENSIONS			
D	C	T(MIN.)	B
4'-0"	2'-6"	4"	6"
5'-0"	3'-9"	5"	8"

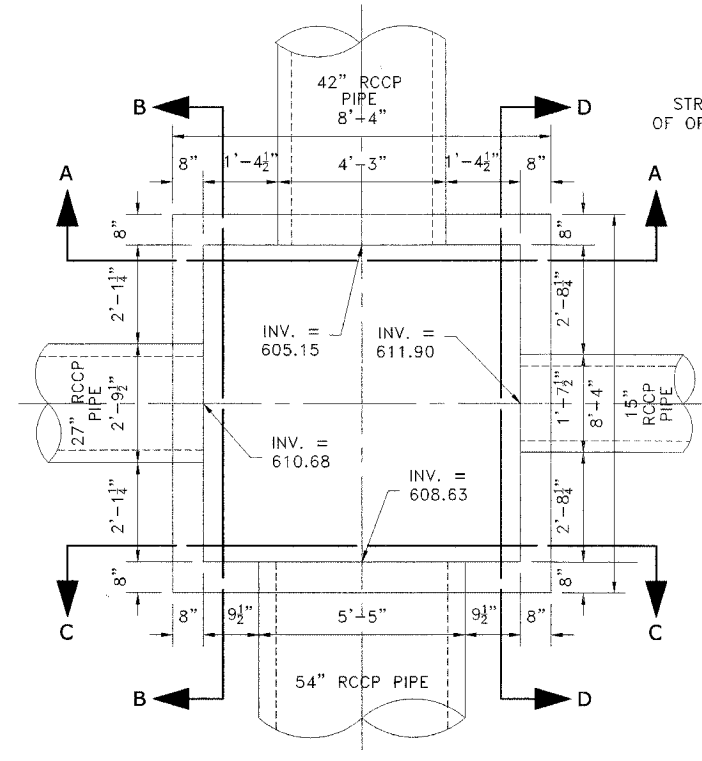
STANDARD VALVE VAULT DETAIL



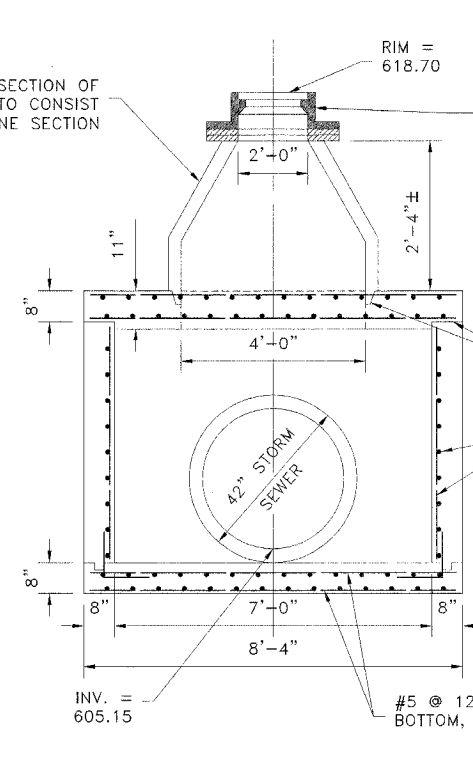
FIRE HYDRANT DETAIL

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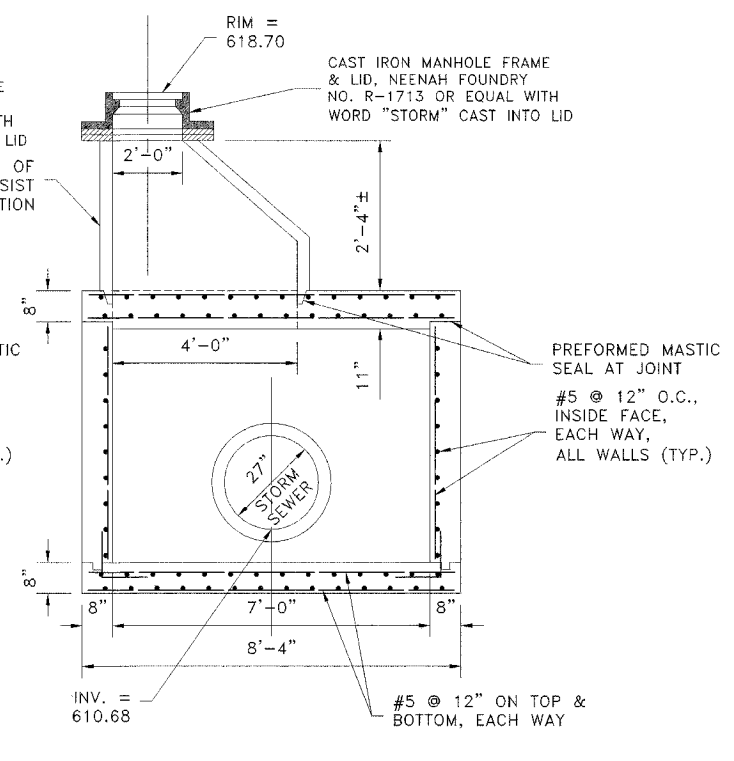
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	31
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				



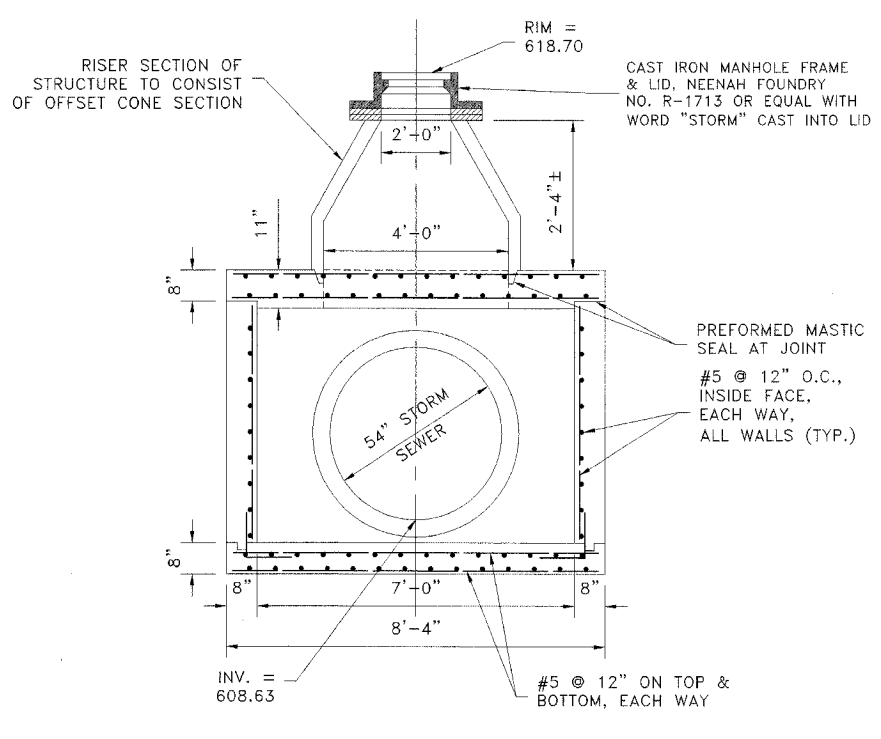
PLAN VIEW



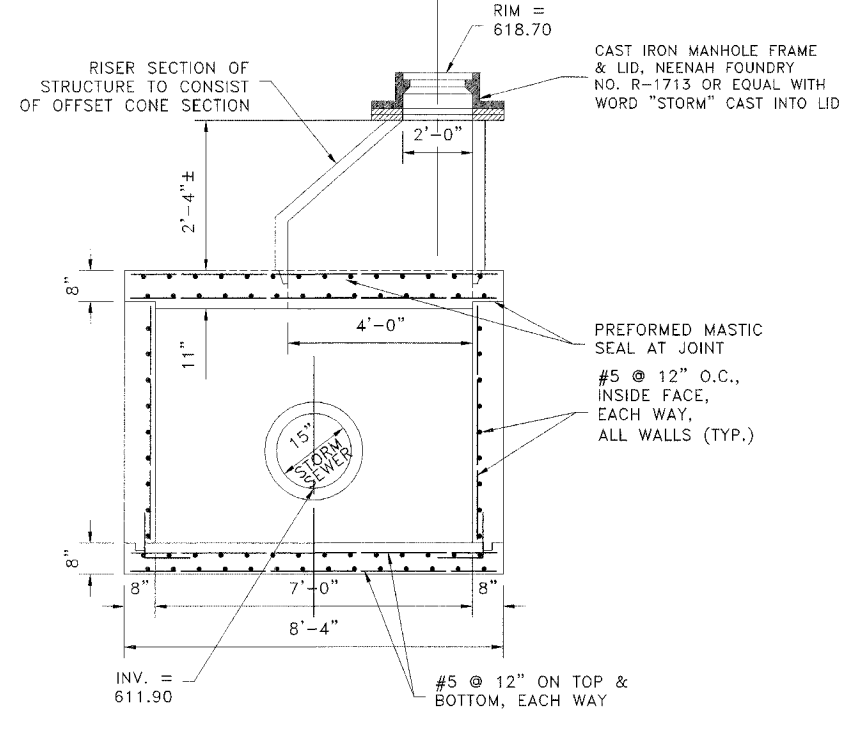
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

BOX STRUCTURE #15
(SEE SHEET NO. 21)

Drawing file: W:\Projects\12504263 - Prairie Ave 2nd Phase\210 Project\Drainage-Details.dwg Oct 05, 2006 - 2:32pm

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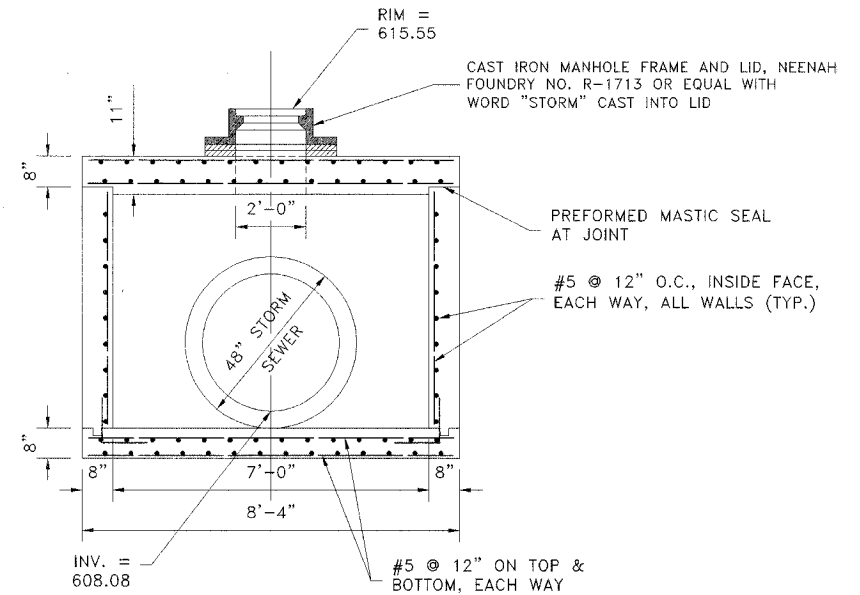
9933 Roosevelt Road
 Westchester, Illinois 60154-2780
 Phone: 708/865-0300
 Fax: 708/865-1212

**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

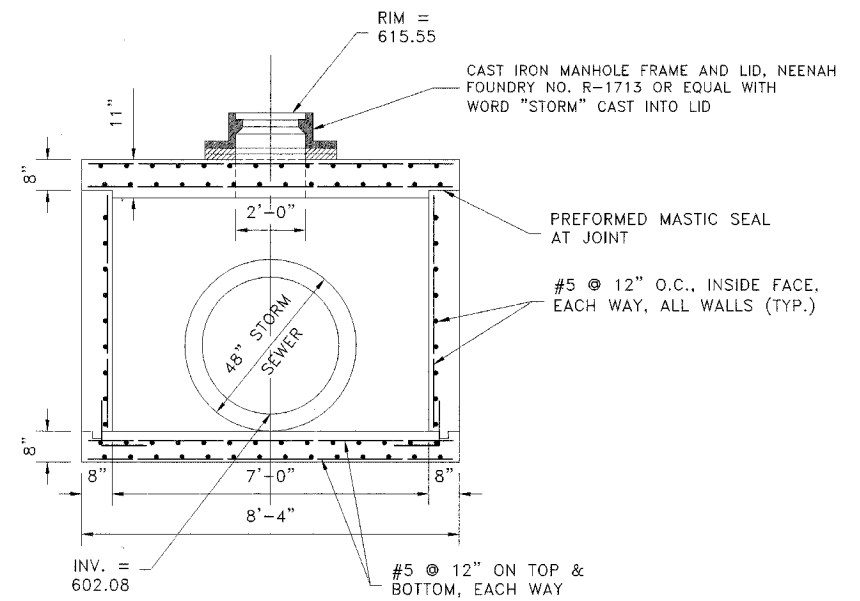
DRAINAGE AND UTILITY DETAILS

SCALE:	NONE	SHEET 31 OF 47
DRAWN BY:	MK/LEV	
BOOK NO.:	#1475, #1504	
DATE:	10-6-06	
E.H.E. NO.:	125-04-26301	
REVISION:		

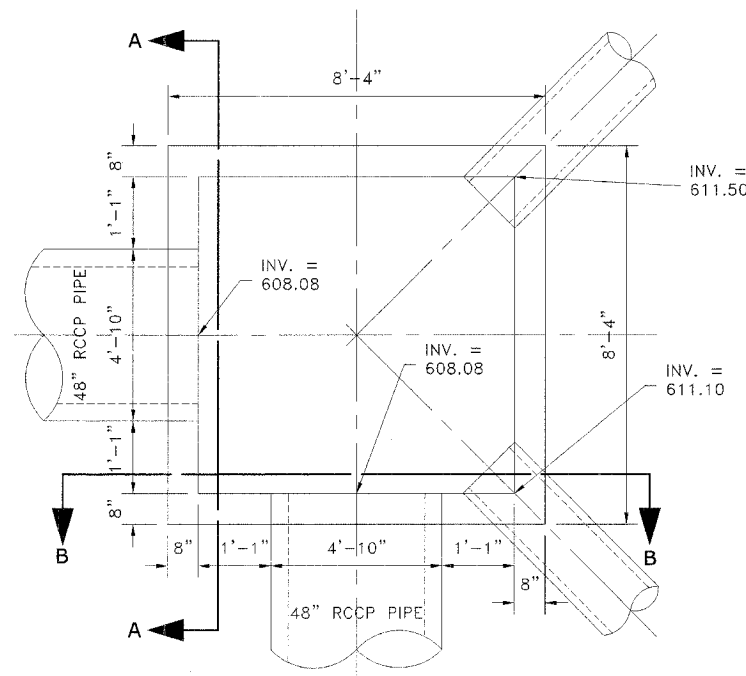
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	32
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				



SECTION A-A

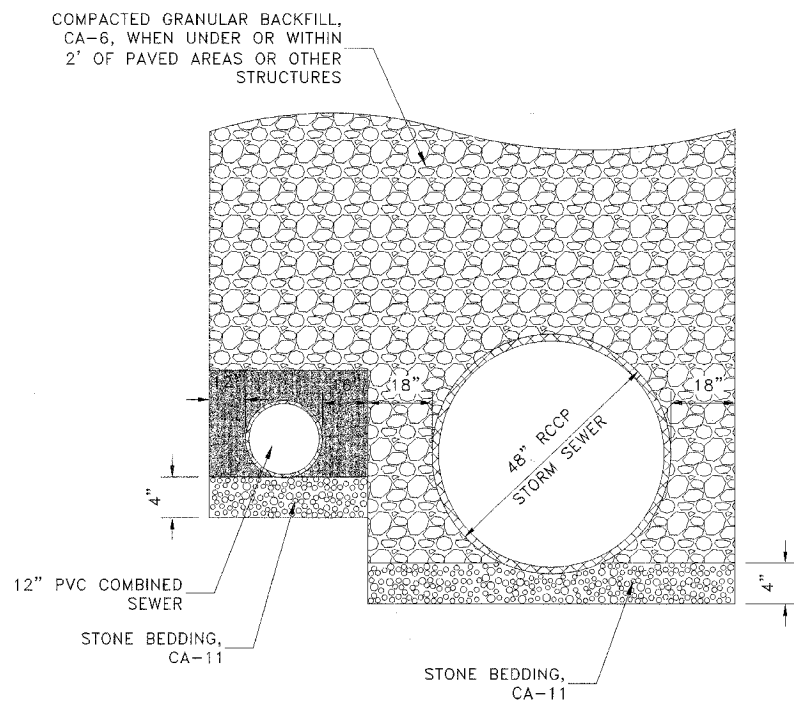


SECTION B-B



PLAN VIEW

BOX STRUCTURE #30
(SEE SHEET NO. 26)



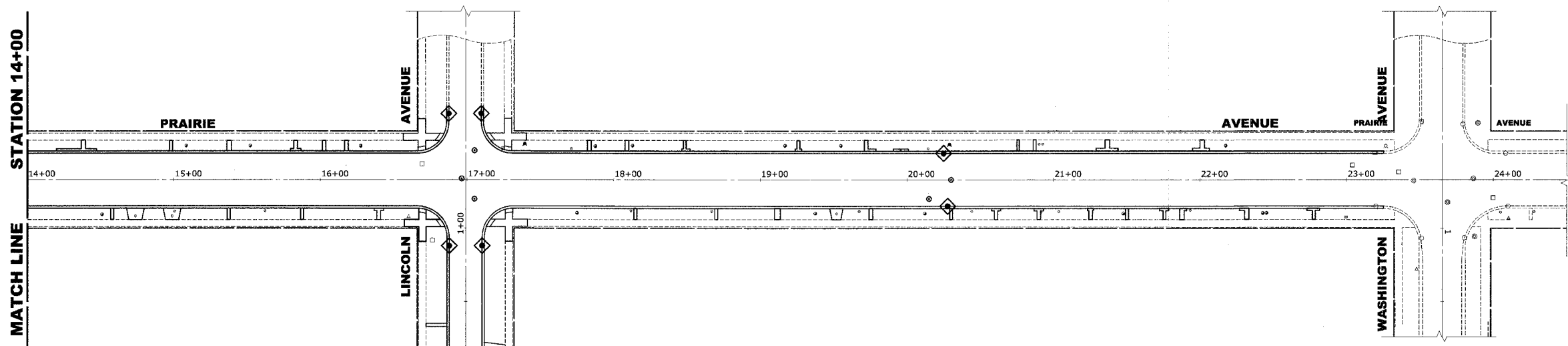
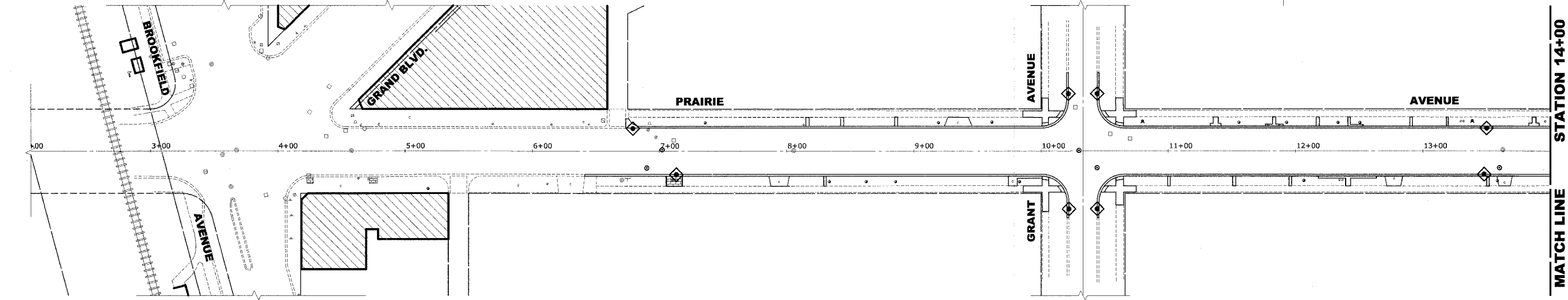
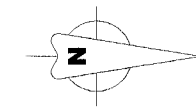
COMBINED SEWER TRENCH
(FOR USE ON FOREST AVENUE, FROM STA. 1+54 TO STA. 4+20)

Drawing File: W:\Projects\12504263 - Prairie Ave 2nd Phase\2010 Project\Drainage-Detail.dwg Jan 18, 2007 - 4:37pm

	Civil Engineers Municipal Consultants Established 1911	9933 Roosevelt Road Westchester, Illinois 60154-2780 Phone: 708/865-0300 Fax: 708/865-1212
	PRAIRIE AVENUE IMPROVEMENTS PHASE II VILLAGE OF BROOKFIELD, ILLINOIS	
	DRAINAGE AND UTILITY DETAILS	
	SCALE: NONE DRAWN BY: MK/LEV BOOK NO.: #1475, #1504 DATE: 10-6-06 E.H.E. NO.: 125-04-26301	

1-18-07 N.J.C.O.R. DMM	REVISION:	SHEET 32 OF 47
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	33
ILLINOIS PROJECT	M-8003(712)			
VILLAGE SECTION	00-00115-01-WR			
CONTRACT NO. 83881				

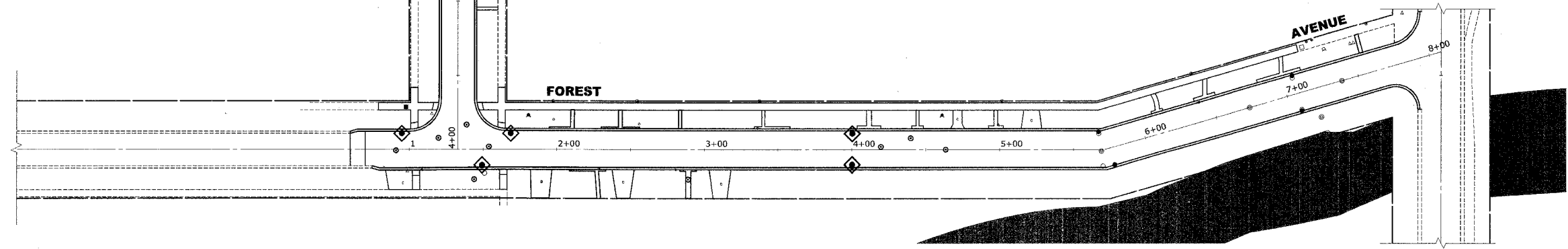


LEGEND

SYMBOL	DESCRIPTION
◆	SEDIMENT CONTROL, DRAINAGE STRUCTURE, INLET FILTER CLEANING
◇	INLET FILTER

NOTES

- SEE IDOT STANDARD 280001-03 FOR TEMPORARY EROSION CONTROL SYSTEMS.
- THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
- SOIL STOCKPILES SHALL BE PROTECTED WITH PERIMETER EROSION BARRIER OR OTHER EROSION PROTECTION SPECIFIED BY THE RESIDENT ENGINEER. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL SOIL MATERIALS.
- WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. THE PROVISIONS MAY INCLUDE SPRAYING VEHICLE WHEELS TO CLEAR SEDIMENT BEFORE EXITING THE CONSTRUCTION SITE OR OTHER MEASURES APPROVED BY THE ENGINEER.



Drawing File: W:\Projects\2504263 - Prairie Ave 2nd Phase\Prarie\Enrain_Control_Plan.dwg Oct 05, 2006 - 2:34pm

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**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

EROSION CONTROL PLAN

SCALE:	1"=40'	SHEET 33 / 47
DRAWN BY:	MK/LEV	
BOOK NO.:	#1475, #1504	
DATE:	10-6-06	
REVISION:	E.H.E. NO.: 125-04-26301	OF

SYMBOL	SIGN	CODE & SIZE	SYMBOL	SIGN	CODE & SIZE	SYMBOL	SIGN	CODE & SIZE
		R1-1 30"x30"			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD
		R1-3 12"x6"			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD
		R2-1 24"x30"			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			TO BE REMOVED AND REPLACED BY PACE
		R2-1 24"x30"			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			EXISTING STREET SIGN AND POST TO BE REMOVED AND REPLACED BY CONTRACTOR
		R5-1 30"x30"			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			EXISTING STREET SIGN AND POST TO BE REMOVED AND REPLACED BY CONTRACTOR
		R6-2 18"x24"			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			EXISTING STREET SIGN AND POST TO BE REMOVED AND REPLACED BY CONTRACTOR
		W3-1w 36"x36"			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			EXISTING STREET SIGN AND POST TO BE REMOVED AND REPLACED BY CONTRACTOR
		TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			
		TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			
		TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			
		TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			
		TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			TO BE REMOVED AND REPLACED BY VILLAGE OF BROOKFIELD			

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
• A	PROPOSED TRAFFIC SIGN (TYPE A METAL POST)
• 2A	PROPOSED TRAFFIC SIGN (2 TYPE A METAL POSTS)
• B	PROPOSED TRAFFIC SIGN (TYPE B METAL POST)

Drawing file: W:\Projects\12504263 - Prairie Ave 2nd Phase\2RD Project\Signing Legend.dwg Oct 05, 2006 - 2:34pm

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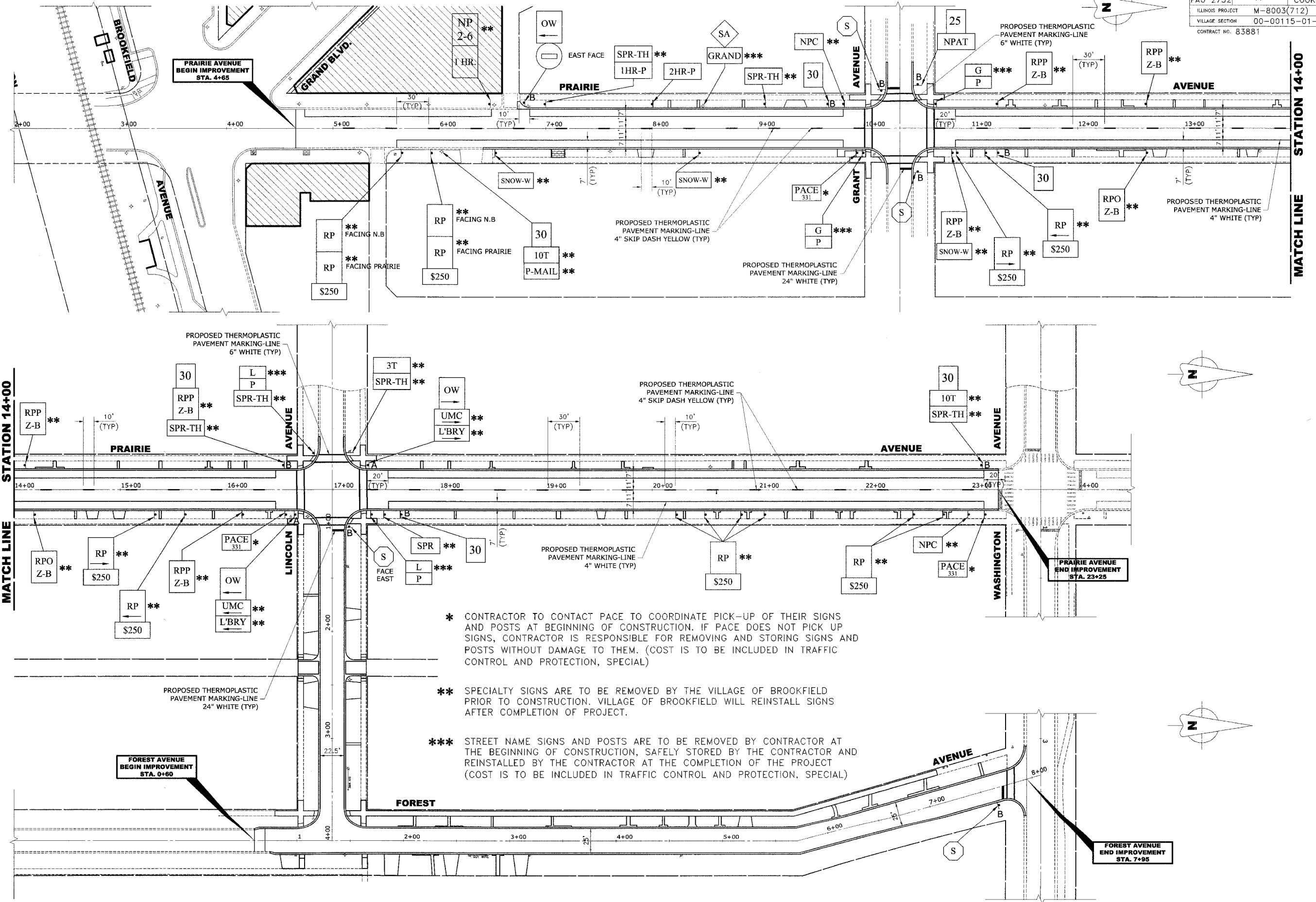
9933 Roosevelt Road
 Westchester, Illinois 60154-2780
 Phone: 708/865-0390
 Fax: 708/865-1212

**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

SIGNING LEGEND AND NOTES

SCALE:	NONE	SHEET	34
DRAWN BY:	MK/LEV	OF	47
BOOK NO.:	#1475, #1504		
DATE:	10-6-06		
REVISION:	E.H.E. No.: 125-04-26301		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	35
ILLINOIS PROJECT	M-8003(712)			
VILLAGE SECTION	00-00115-01-WR			
CONTRACT NO. 83881				



- * CONTRACTOR TO CONTACT PACE TO COORDINATE PICK-UP OF THEIR SIGNS AND POSTS AT BEGINNING OF CONSTRUCTION. IF PACE DOES NOT PICK UP SIGNS, CONTRACTOR IS RESPONSIBLE FOR REMOVING AND STORING SIGNS AND POSTS WITHOUT DAMAGE TO THEM. (COST IS TO BE INCLUDED IN TRAFFIC CONTROL AND PROTECTION, SPECIAL)
- ** SPECIALTY SIGNS ARE TO BE REMOVED BY THE VILLAGE OF BROOKFIELD PRIOR TO CONSTRUCTION. VILLAGE OF BROOKFIELD WILL REINSTALL SIGNS AFTER COMPLETION OF PROJECT.
- *** STREET NAME SIGNS AND POSTS ARE TO BE REMOVED BY CONTRACTOR AT THE BEGINNING OF CONSTRUCTION, SAFELY STORED BY THE CONTRACTOR AND REINSTALLED BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT (COST IS TO BE INCLUDED IN TRAFFIC CONTROL AND PROTECTION, SPECIAL)

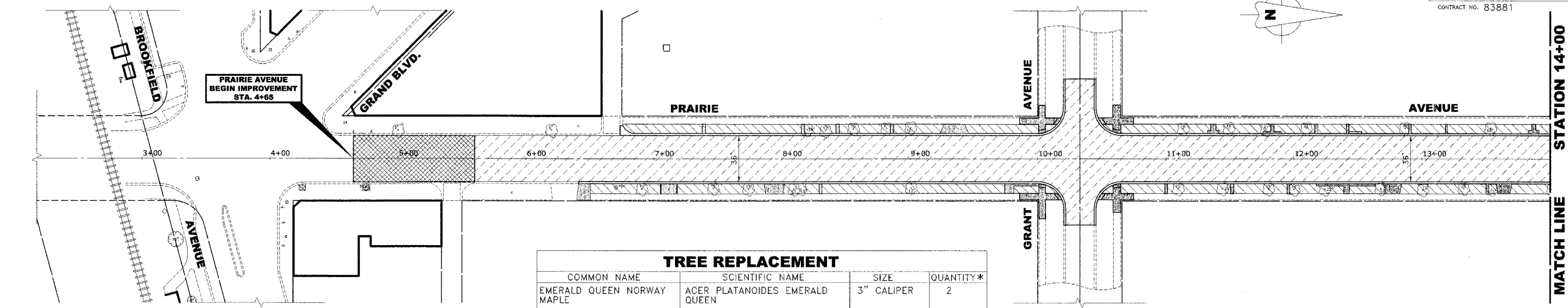
Drawing file: W:\Projects\125042633 - Prairie Ave 2nd Phase\Prarie\Prarie Pavement markings.dwg Oct 05, 2006 - 2:36pm

	◆ Civil Engineers	9933 Roosevelt Road
	◆ Municipal Consultants	Westchester, Illinois 60154-2780
	◆ Established 1911	Phone: 708/865-0300
		Fax: 708/865-1212

**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

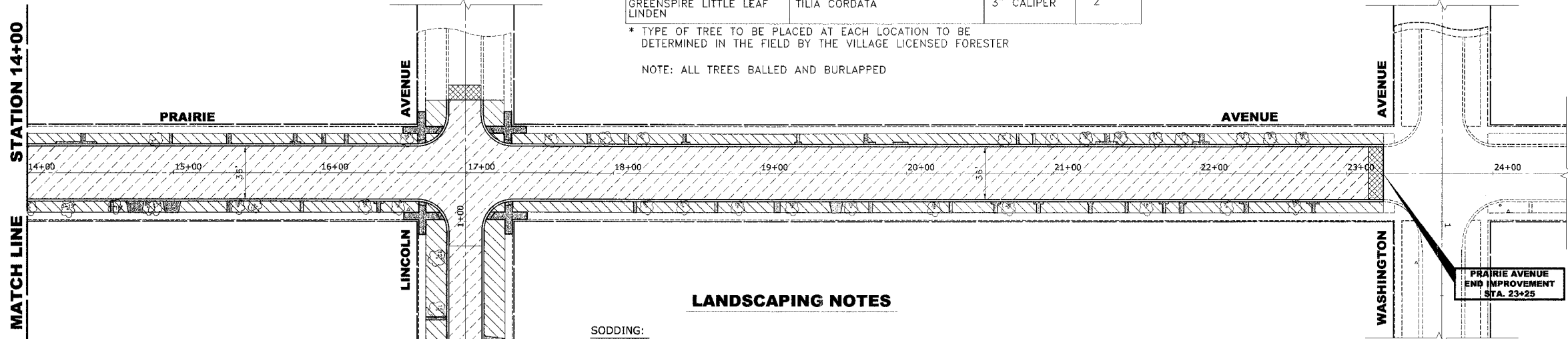
PAVEMENT MARKING AND SIGNING PLAN

SCALE:	1"=40'	SHEET 35 / 47
DRAWN BY:	MK/LEV	
BOOK NO.:	#1475, #1504	
DATE:	10-6-06	
REVISION:	E.H.E. NO.: 125-04-26301	OF



TREE REPLACEMENT			
COMMON NAME	SCIENTIFIC NAME	SIZE	QUANTITY*
EMERALD QUEEN NORWAY MAPLE	ACER PLATANOIDES EMERALD QUEEN	3" CALIPER	2
SUGAR MAPLE	ACER SACCHARUM	3" CALIPER	2
KENTUCKY COFFEE TREE	GYMNOCLADUS DIOICUS	3" CALIPER	2
GREENSPIRE LITTLE LEAF LINDEN	TILIA CORDATA	3" CALIPER	2

* TYPE OF TREE TO BE PLACED AT EACH LOCATION TO BE DETERMINED IN THE FIELD BY THE VILLAGE LICENSED FORESTER
 NOTE: ALL TREES BALLED AND BURLAPPED



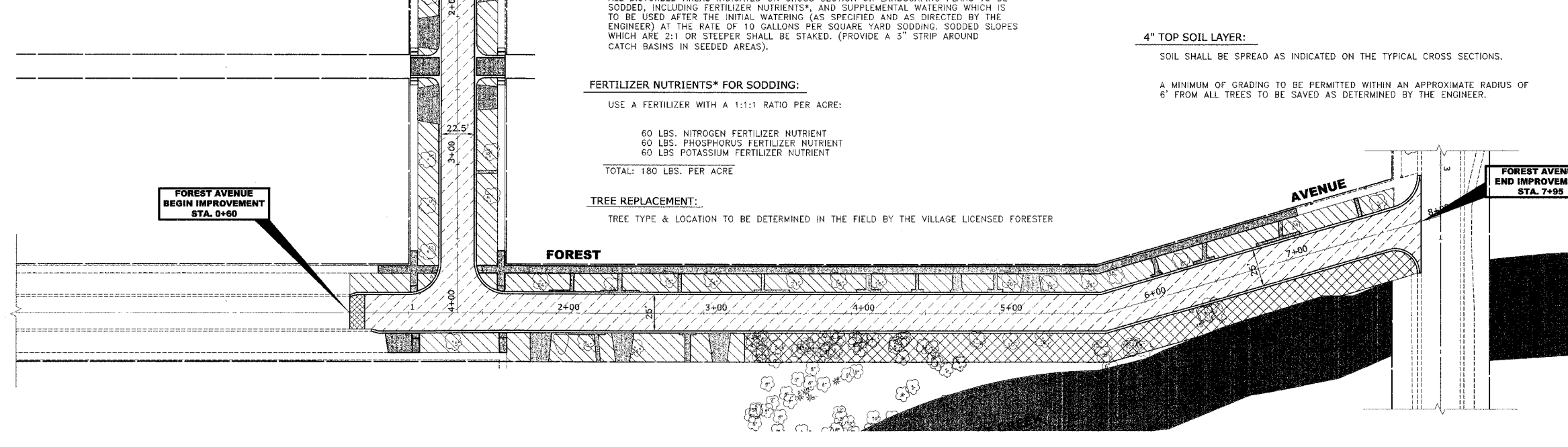
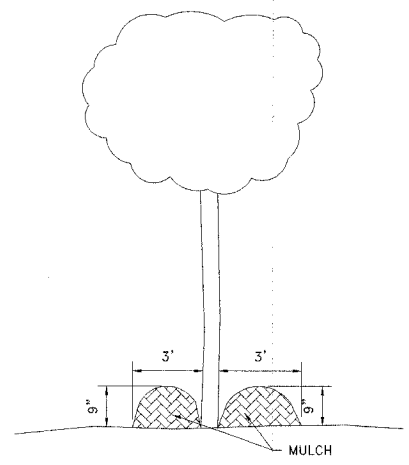
LANDSCAPING NOTES

SODDING:
 ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS*, AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 10 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDD AREAS).

FERTILIZER NUTRIENTS* FOR SODDING:
 USE A FERTILIZER WITH A 1:1:1 RATIO PER ACRE:
 60 LBS. NITROGEN FERTILIZER NUTRIENT
 60 LBS. PHOSPHORUS FERTILIZER NUTRIENT
 60 LBS. POTASSIUM FERTILIZER NUTRIENT
 TOTAL: 180 LBS. PER ACRE

TREE REPLACEMENT:
 TREE TYPE & LOCATION TO BE DETERMINED IN THE FIELD BY THE VILLAGE LICENSED FORESTER

4" TOP SOIL LAYER:
 SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS.
 A MINIMUM OF GRADING TO BE PERMITTED WITHIN AN APPROXIMATE RADIUS OF 6' FROM ALL TREES TO BE SAVED AS DETERMINED BY THE ENGINEER.



FOREST AVENUE END IMPROVEMENT STA. 7+95

SYMBOL	DESCRIPTION
[Solid black box]	PROPOSED CONCRETE AREA
[Diagonal hatching]	PROPOSED BITUMINOUS CONCRETE AREA
[Cross-hatching]	PROPOSED SODDED PARKWAY
[Dotted pattern]	PROPOSED SEEDD PARKWAY
[Stippled pattern]	PROPOSED BITUMINOUS CONCRETE REMOVAL

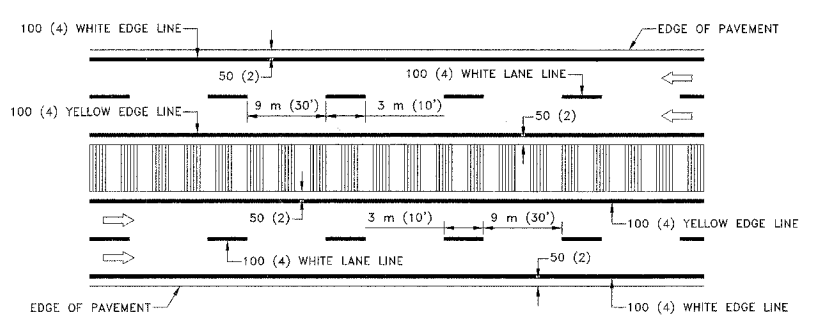
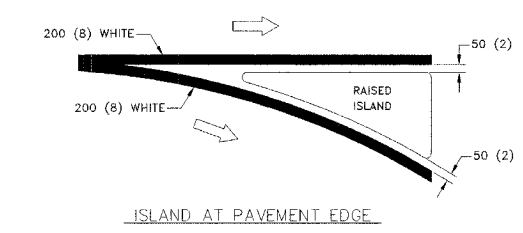
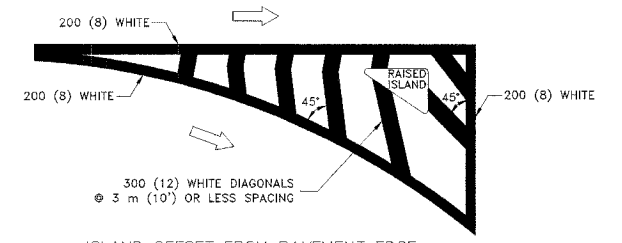
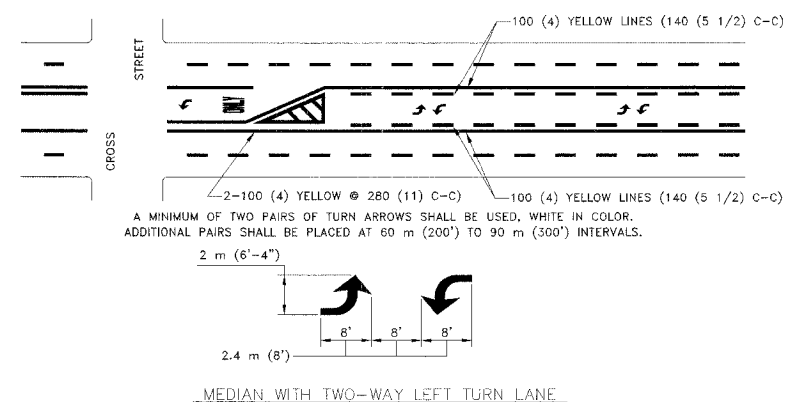
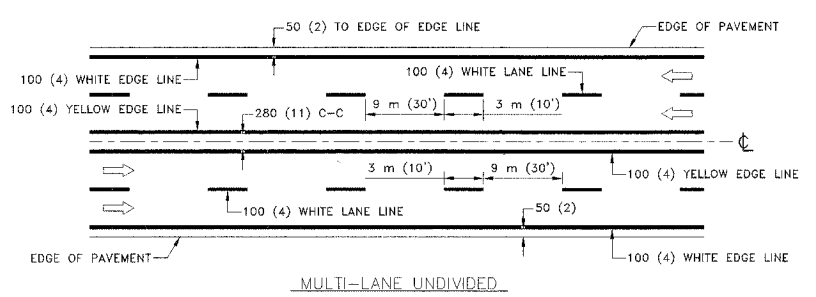
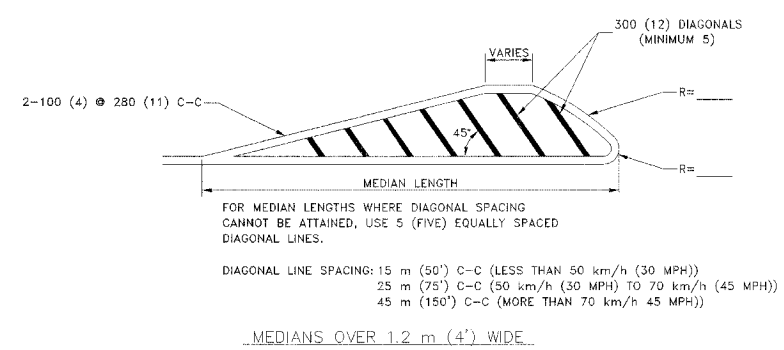
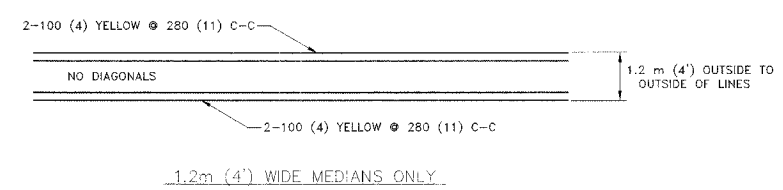
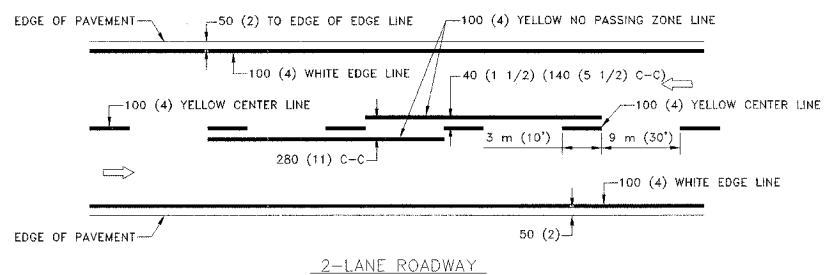
Drawing File: W:\Projects\12504263 - Prairie Ave 2nd Phase\Pravie\Asst\12504263 - Landscape Plan.dwg Oct 05, 2006 - 2:37pm

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PRAIRIE AVENUE IMPROVEMENTS PHASE II VILLAGE OF BROOKFIELD, ILLINOIS

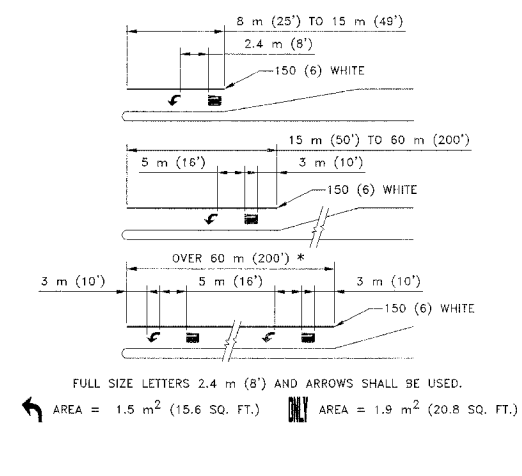
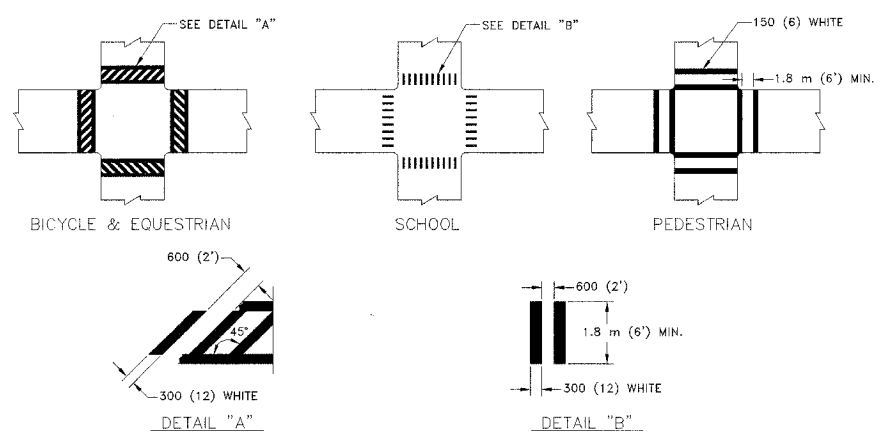
ASPHALT AND LANDSCAPING PLAN

SCALE: 1"=40'	SHEET 36 / 47
DRAWN BY: MK/LEV	
BOOK NO.: #1475, #1504	
DATE: 10-6-06	
REVISION:	E.H.E. NO.: 125-04-26301 OF



NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGELINE.

TYPICAL LANE AND EDGE LINE MARKING



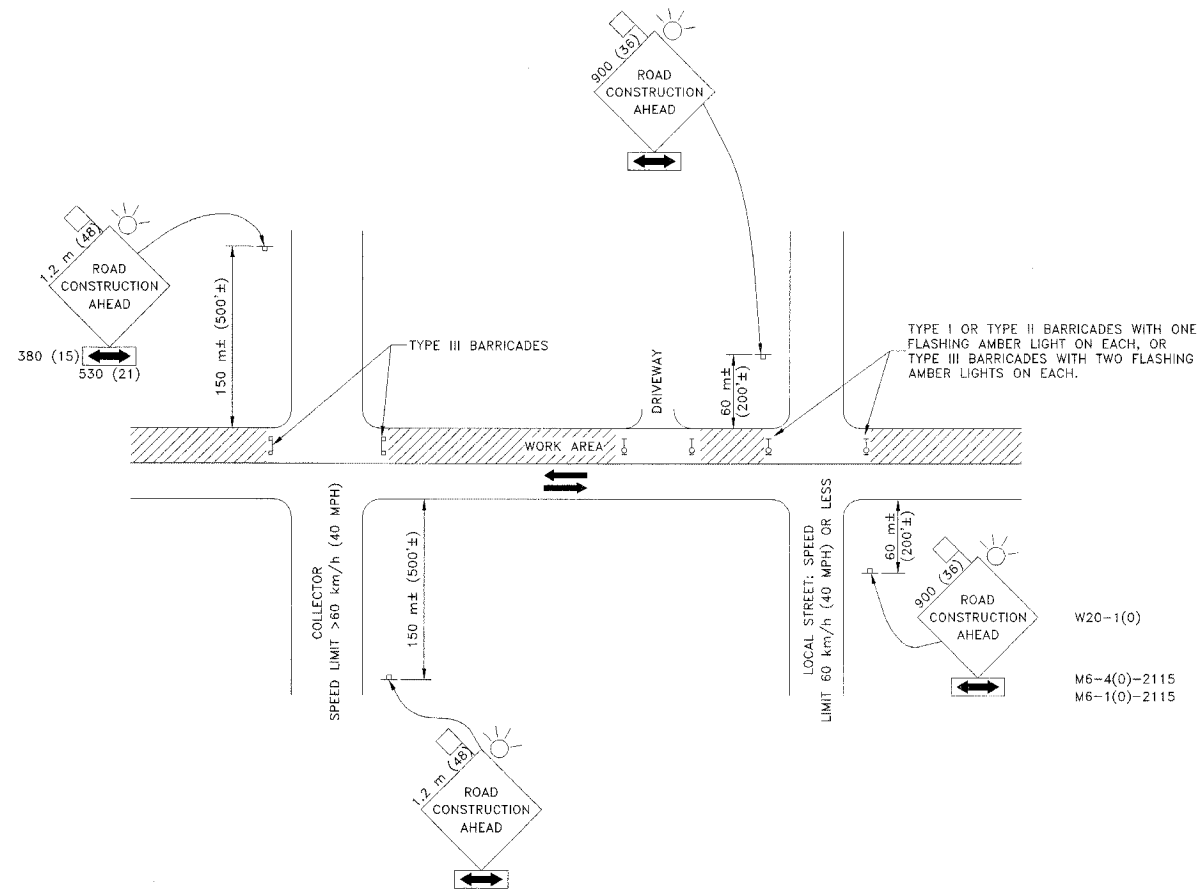
TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING/REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINE	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS BEING EXTENDED	SKIP-DASH	SAME AS BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINE	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL.
TWO WAY LEFT TURN MARKING	2 @ 100 (4) 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT.
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MAKING.
GOPE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30MPH)) 6 m (20') C-C (50km/h (30MPH) TO 70km/h (45MPH)) 9 m (30') C-C (OVER 70km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.40 m ² (4.3 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45MPH))

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

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

<p>HANCOCK ENGINEERING</p> <p>◆ Civil Engineers ◆ Municipal Consultants ◆ Established 1911</p> <p>9933 Roosevelt Road Westchester, Illinois 60154-2780 Phone: 788-865-4100 Fax: 788-865-1212</p>	<p>REVISIONS</p> <table border="1"> <tr> <th>NAME</th> <th>DATE</th> </tr> <tr> <td>EVERS</td> <td>03/19/90</td> </tr> <tr> <td>T. RAMMACHER</td> <td>10/27/94</td> </tr> <tr> <td>A. HOUSER</td> <td>10/09/96</td> </tr> <tr> <td>A. HOUSER</td> <td>10/17/96</td> </tr> <tr> <td>T. RAMMACHER</td> <td>01/06/00</td> </tr> </table>	NAME	DATE	EVERS	03/19/90	T. RAMMACHER	10/27/94	A. HOUSER	10/09/96	A. HOUSER	10/17/96	T. RAMMACHER	01/06/00	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p>DISTRICT ONE TYPICAL PAVEMENT MARKINGS</p>
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<p>SCALE: NONE</p> <p>DATE: 03/25/02</p>	<p>DRAWN BY: CADD</p> <p>CHECKED BY:</p>	<p>E.H.E. PROJECT NO. 125-04-26301</p>												



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 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

A) ONE "ROAD CONSTRUCTION AHEAD" SIGN 900 X 900 (36 X 36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') 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 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

A) ONE "ROAD CONSTRUCTION AHEAD" SIGN 1.2m X 1.2m (48" BY 48") WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 150m (500 FT.) IN ADVANCE OF THE MAIN ROUTE.

B) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE II 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 LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606, OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

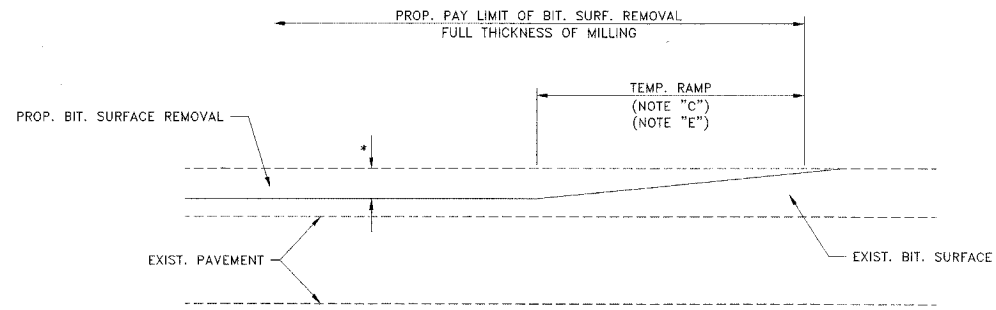
D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIC TRAFFIC CONTROL STANDARDS OR ITEMS.

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

Drawing file: W:\Projects\12504263 - Prairie Ave 2nd Phase\210 Project\State Standard Markings.dwg Oct 05, 2005 - 3:40pm

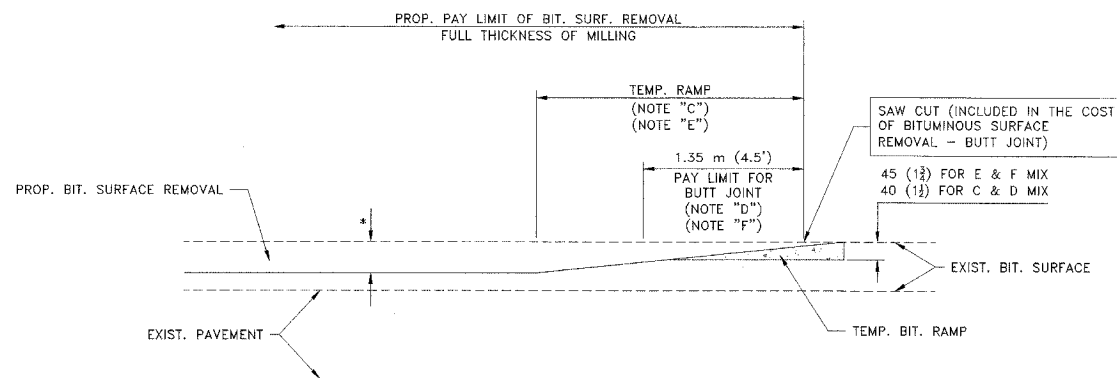
<p>HANCOCK ENGINEERING</p> <p>◆ Civil Engineers ◆ Municipal Consultants ◆ Established 1911</p> <p>9933 Roosevelt Road Westchester, Illinois 60154-2700 Phone: 708/965-4700 Fax: 708/965-1212</p>	<p align="center">ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS</p>															
	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>LHA</td> <td>06/89</td> </tr> <tr> <td>T. RAMMACHER</td> <td>09/08/94</td> </tr> <tr> <td>J. OBERLE</td> <td>10/18/95</td> </tr> <tr> <td>A. HOUSER</td> <td>03/06/96</td> </tr> <tr> <td>A. HOUSER</td> <td>10/15/96</td> </tr> <tr> <td>T. RAMMACHER</td> <td>01/06/00</td> </tr> </tbody> </table>	REVISIONS		NAME	DATE	LHA	06/89	T. RAMMACHER	09/08/94	J. OBERLE	10/18/95	A. HOUSER	03/06/96	A. HOUSER	10/15/96	T. RAMMACHER
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	39
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				



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

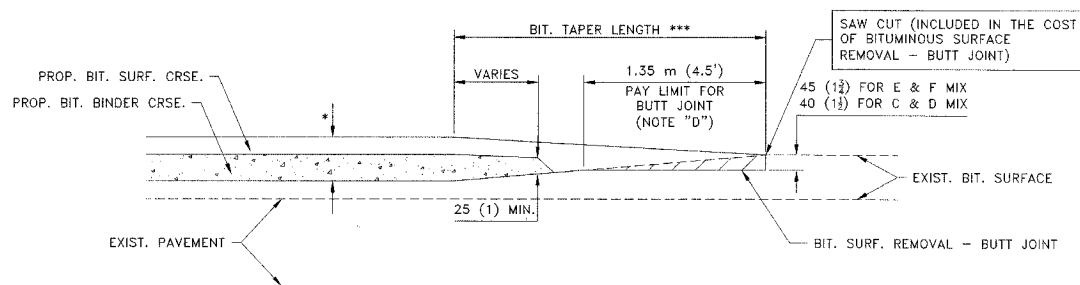
OPTION 1



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

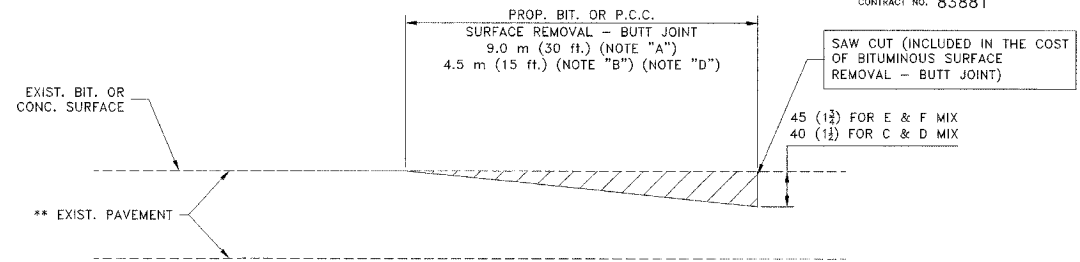
OPTION 2

TYPICAL TEMPORARY RAMP

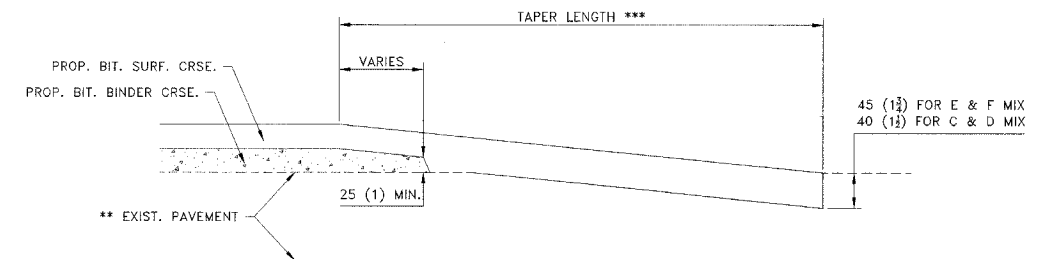


BITUMINOUS TAPER DETAIL

TYPICAL BUTT JOINT AND BITUMINOUS TAPER
FOR MILLING AND RESURFACING ONLY



BUTT JOINT DETAIL



BITUMINOUS TAPER DETAIL

TYPICAL BUTT JOINT AND BITUMINOUS TAPER
FOR RESURFACING ONLY

** PC CONCRETE, BITUMINOUS OR BITUMINOUS RESURFACED PAVEMENT.

NOTES

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

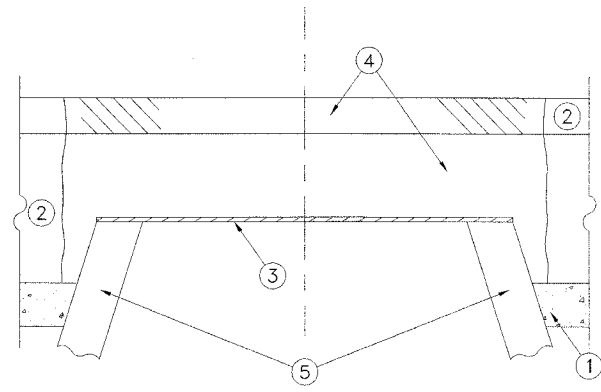
*All references to Bituminous shall mean Asphalt and Superpave shall mean Hot Mix, on this sheet only.

BASIS OF PAYMENT:

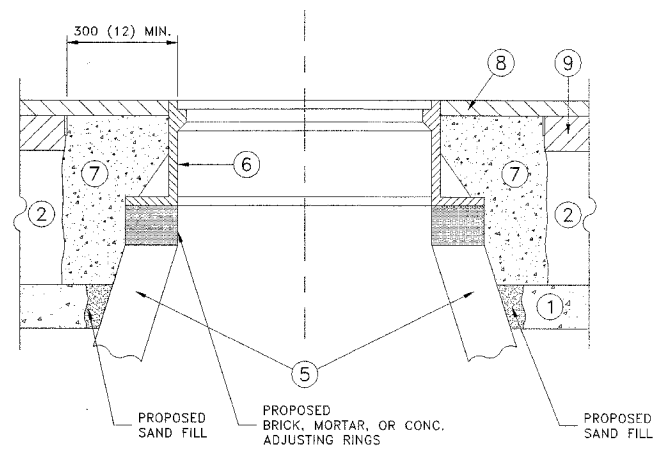
THE BUTT JOINT WILL BE PAID FOR PER SQUARE METER (SQUARE YARD) AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT" OR AS "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

<p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p>	<p>REVISIONS</p> <table border="1"> <tr> <th>NAME</th> <th>DATE</th> </tr> <tr> <td>M. DE YOUNG</td> <td>06/13/90</td> </tr> <tr> <td>M. DE YOUNG</td> <td>07/03/90</td> </tr> <tr> <td>M. DE YOUNG</td> <td>3/27/92</td> </tr> <tr> <td>R. SHAH</td> <td>09/09/94</td> </tr> <tr> <td>R. SHAH</td> <td>10/25/94</td> </tr> <tr> <td>A. ABBAS</td> <td>03/21/97</td> </tr> <tr> <td>M. GOMEZ</td> <td>04/06/01</td> </tr> </table>		NAME	DATE	M. DE YOUNG	06/13/90	M. DE YOUNG	07/03/90	M. DE YOUNG	3/27/92	R. SHAH	09/09/94	R. SHAH	10/25/94	A. ABBAS	03/21/97	M. GOMEZ	04/06/01	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p>BUTT JOINT AND BITUMINOUS TAPER DETAILS</p>	
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<p>9933 Roosevelt Road Westchester, Illinois 60154-2780 Phone: 708/865-4300 Fax: 708/865-1212</p>		SCALE: NONE	DRAWN BY: CADD																	
		DATE: 03/25/02	CHECKED BY:																	
<p>E.H.E. PROJECT NO. 125-04-26301</p>																				



- CONSTRUCTION PROCEDURES**
- STAGE 1 (BEFORE PAVEMENT MILLING)**
- REMOVE A MINIMUM OF 300 (12) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
 - REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
 - COVER THE STRUCTURE OPENING WITH A 900 (36) DIAMETER METAL PLATE.
 - BACKFILL WITH CRUSHED STONE AND A MINIMUM 40 (1 1/2) THICK BITUMINOUS MATERIAL APPROVED BY THE ENGINEER.



- STAGE 2 (AFTER PAVEMENT MILLING)**
- REMOVE THE BITUMINOUS MATERIAL AND CRUSHED STONE.
 - INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
 - THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

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

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

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 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 RECONSTRUCTION PAY ITEM.

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT: FRAMES AND LIDS TO BE ADJUSTED, SPECIAL EACH
NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING



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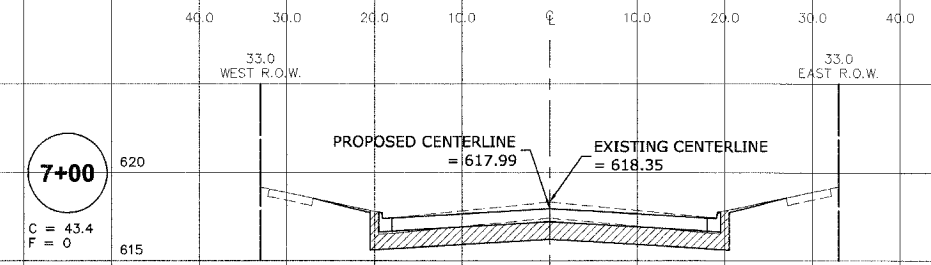
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<p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p> <p>9933 Roosevelt Road Westchester, Illinois 60154-2780 Phone: 708/965-8100 Fax: 708/965-1212</p>	<p>REVISIONS</p> <table border="1"> <tr><th>NAME</th><th>DATE</th></tr> <tr><td>R. SHAH</td><td>10/25/94</td></tr> <tr><td>R. SHAH</td><td>01/30/95</td></tr> <tr><td>R. SHAH</td><td>03/10/95</td></tr> <tr><td>A. ABBAS</td><td>03/21/97</td></tr> </table>	NAME	DATE	R. SHAH	10/25/94	R. SHAH	01/30/95	R. SHAH	03/10/95	A. ABBAS	03/21/97	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p>DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING</p>
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<p>SCALE: NONE</p> <p>DATE: 03/25/02</p>	<p>DRAWN BY: CADD</p> <p>CHECKED BY:</p>	<p>E.H.E. PROJECT NO. 125-04-26301</p>										

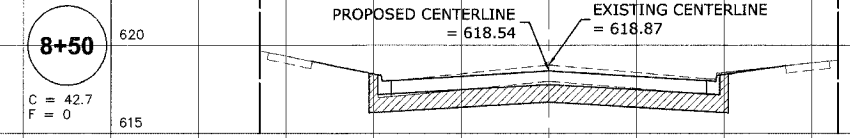
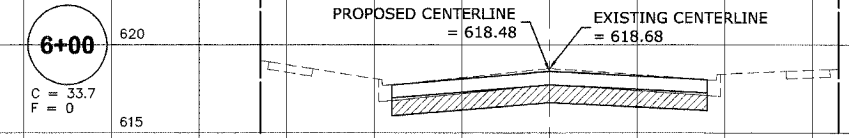
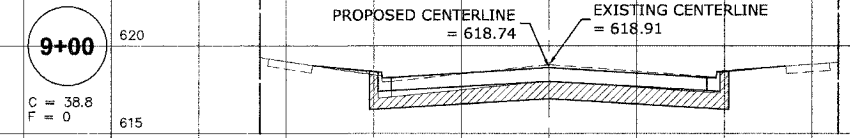
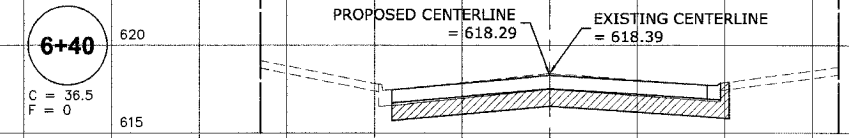
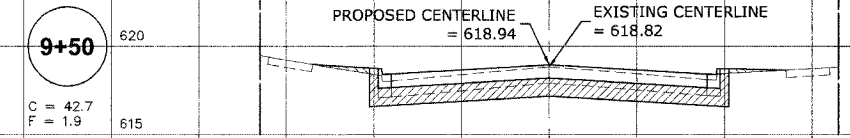
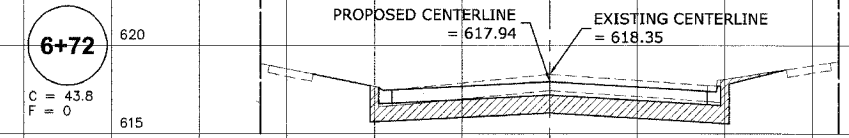
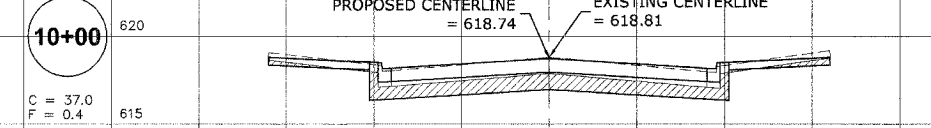
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	41
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				

CROSS SECTION LEGEND

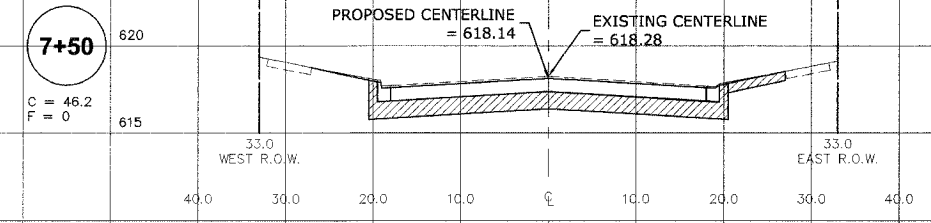
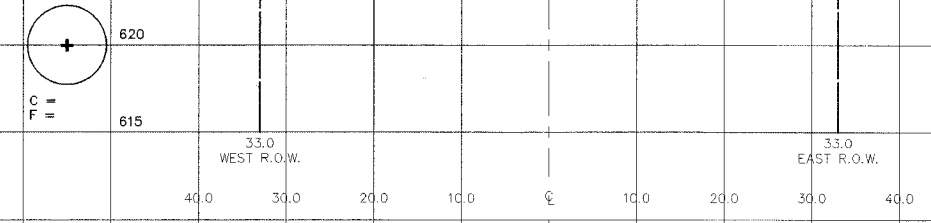
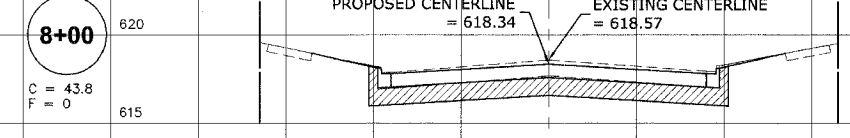
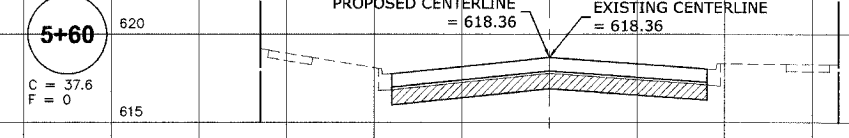
C = CUT (SQ. FT.) 
F = FILL (SQ. FT.) 



PC GRANT AVE.



BEGIN RECONSTRUCTION



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HANCOCK ENGINEERING ♦ Civil Engineers ♦ Municipal Consultants ♦ Established 1911
 9933 Roosevelt Road Westchester, Illinois 60154-2780
 Phone: 708/865-0300 Fax: 708/865-1212



PRAIRIE AVENUE IMPROVEMENTS PHASE II VILLAGE OF BROOKFIELD, ILLINOIS

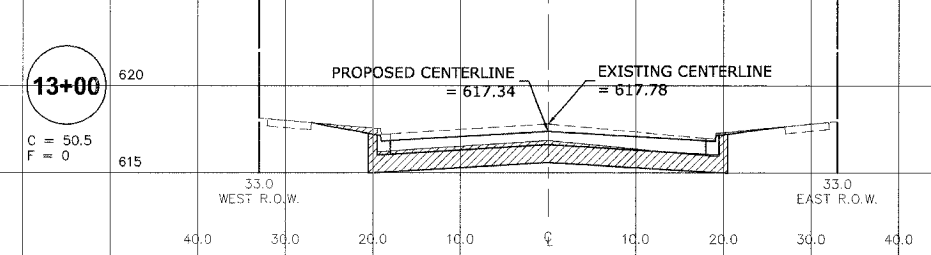
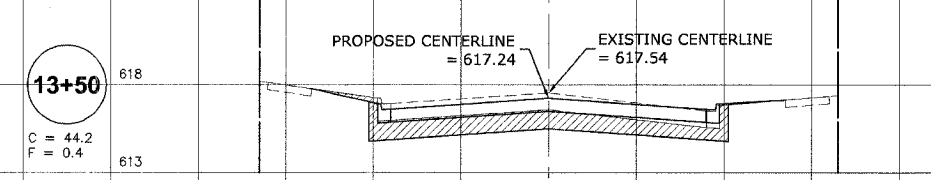
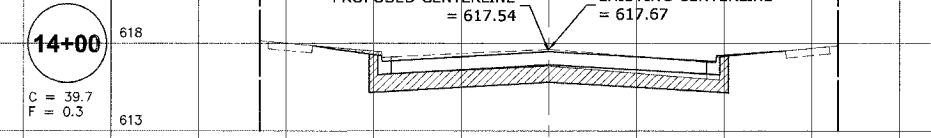
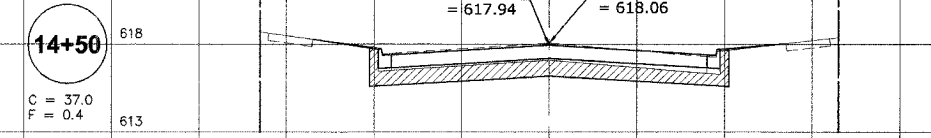
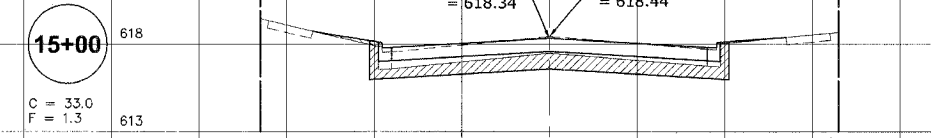
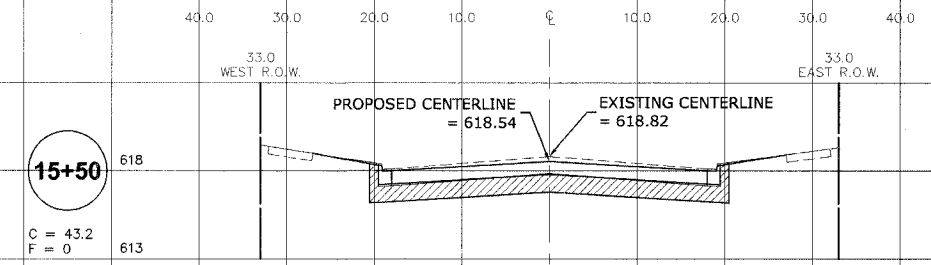
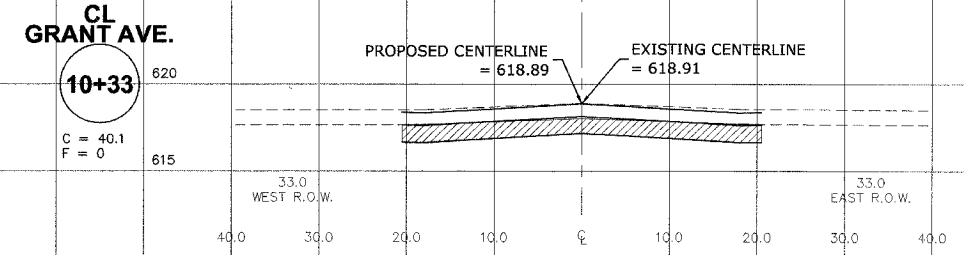
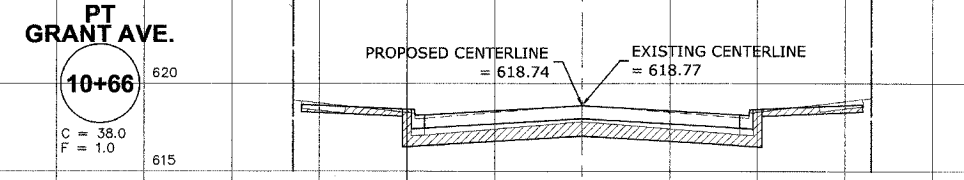
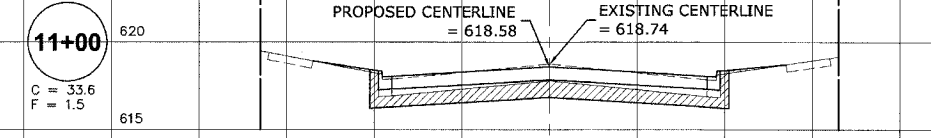
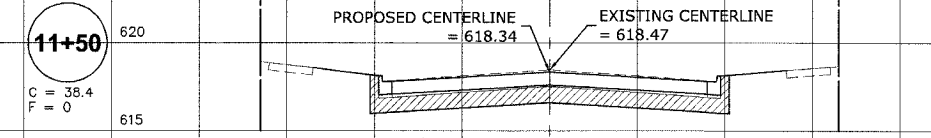
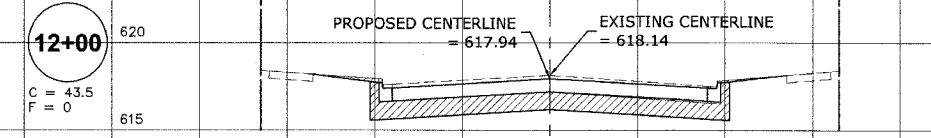
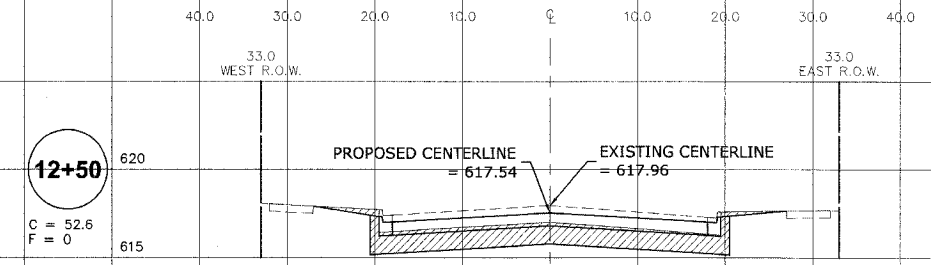
PRAIRIE AVENUE STATION CROSS SECTIONS STATION 5+60 TO STATION 10+00

SCALE: 1"=10'H. & 1"=5'V SHEET **41** / **47**
 DRAWN BY: MK/LEV
 BOOK NO.: #1475, #1504
 DATE: 10-6-06
 E.H.C. NO.: 125-04-26301 OF

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	42
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				

CROSS SECTION LEGEND

C = CUT (SQ. FT.) 
F = FILL (SQ. FT.) 



Drawing file: W:\Projects\1504263 - Prairie Ave 2nd Phase\Xref\2\Sheet2.dwg Oct 05, 2006 - 2:47pm

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PRAIRIE AVENUE IMPROVEMENTS PHASE II VILLAGE OF BROOKFIELD, ILLINOIS

PRAIRIE AVENUE STATION CROSS SECTIONS STATION 10+33 TO STATION 15+50

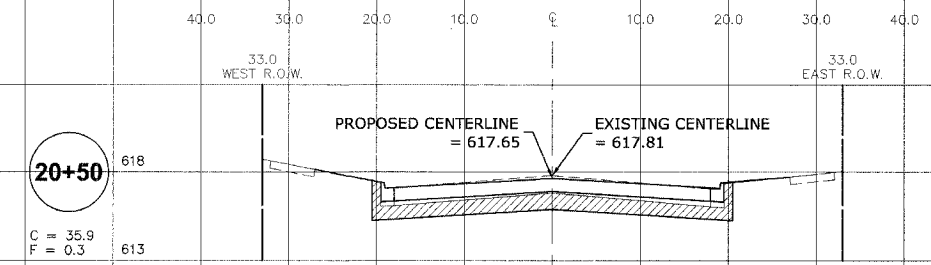
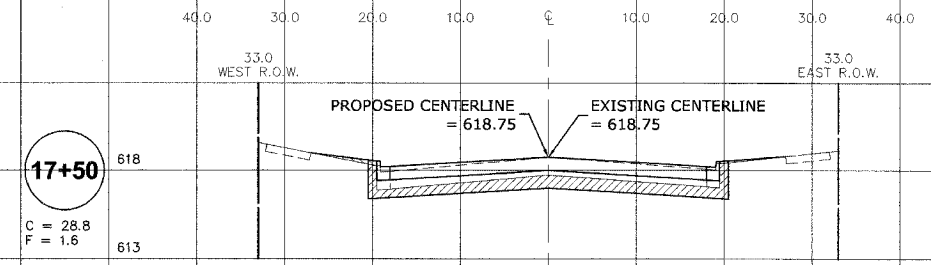
SCALE: 1"=10'H. & 1"=5'V SHEET **42/47**
 DRAWN BY: MK/LEV
 BOOK NO.: #1475, #1504
 DATE: 10-6-06
 E.H.E. NO.: 125-04-26301

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	43
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				

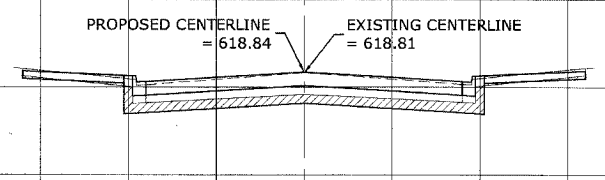
CROSS SECTION LEGEND

C = CUT (SQ. FT.)

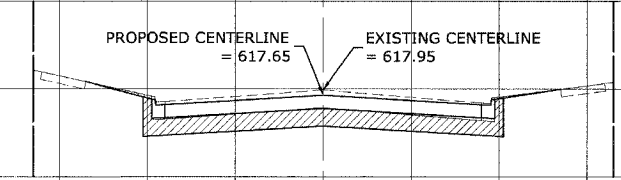
F = FILL (SQ. FT.)



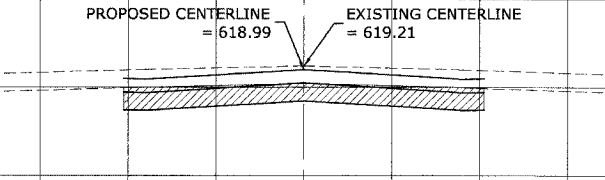
PT LINCOLN AVE.
17+32
C = 25.8
F = 0.8



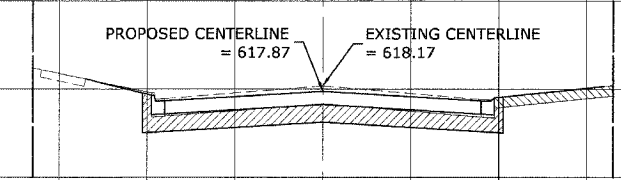
20+00
C = 42.7
F = 0



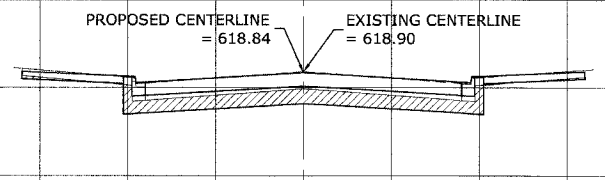
CL LINCOLN AVE.
17+00
C = 47.1
F = 0



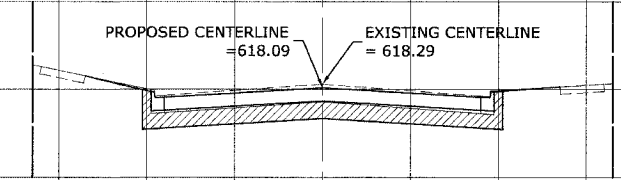
19+50
C = 40.9
F = 7.9



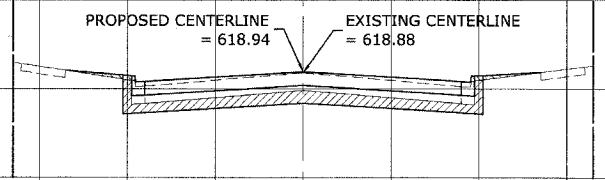
PC LINCOLN AVE.
16+67
C = 34.8
F = 0.2



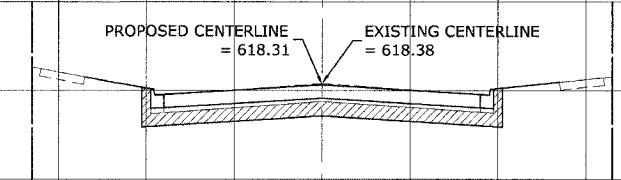
19+00
C = 39.6
F = 0



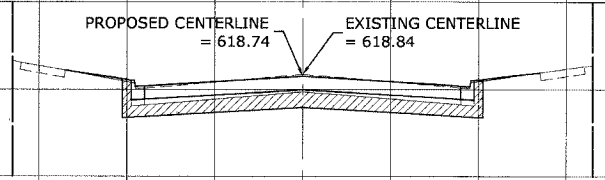
16+50
C = 27.7
F = 2.1



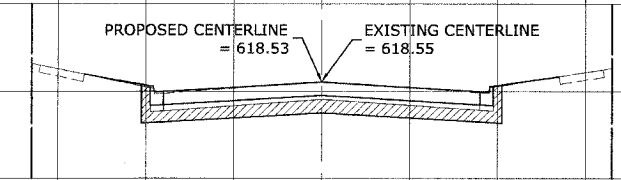
18+50
C = 34.4
F = 0.2



16+00
C = 34.3
F = 0.9



18+00
C = 32.3
F = 0.6



Drawing file: W:\Projects\12504263 - Prairie Ave 2nd Phase\Sheet3\Sheet3.dwg Oct 05, 2006 - 2:48pm

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**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

**PRAIRIE AVENUE
STATION CROSS SECTIONS
STATION 16+00 TO STATION 20+50**

SCALE: 1"=10'H. & 1"=5'V SHEET 43/47

DRAWN BY: MK/LEV

BOOK NO.: #1475, #1504

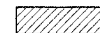

DATE: 10-6-06

E.H.E. NO.: 125-04-26301

REVISION:

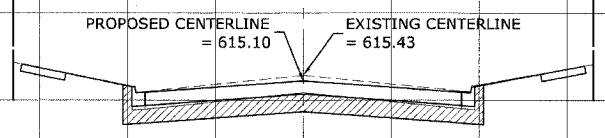
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	44
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				

CROSS SECTION LEGEND

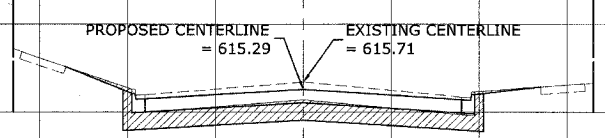
C = CUT (SQ. FT.) 
 F = FILL (SQ. FT.) 

END IMPROVEMENT PC WASHINGTON AVE.
 33.0 WEST R.O.W. 33.0 EAST R.O.W.

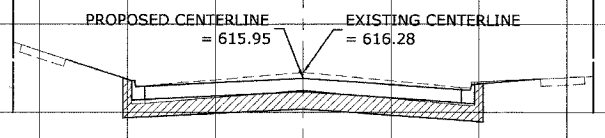
23+20
 C = 82.5
 F = 0



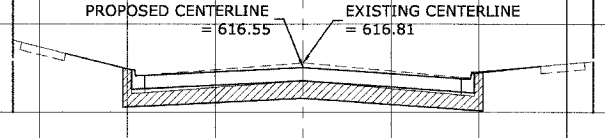
23+00
 C = 46.6
 F = 0



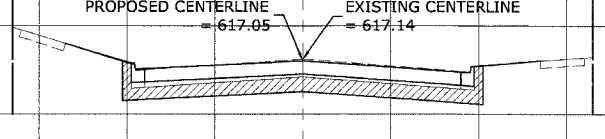
22+50
 C = 41.5
 F = 0



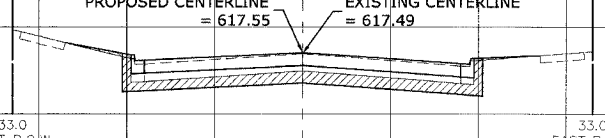
22+00
 C = 39.4
 F = 0



21+50
 C = 35.2
 F = 0.3



21+00
 C = 28.3
 F = 1.4



33.0 WEST R.O.W. 33.0 EAST R.O.W.

Drawing file: W:\Projects\12504263 - Prairie Ave 2nd Phase\Asst4\Sheet4.dwg Oct 05, 2006 - 2:49pm

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PRAIRIE AVENUE IMPROVEMENTS PHASE II VILLAGE OF BROOKFIELD, ILLINOIS

PRAIRIE AVENUE STATION CROSS SECTIONS STATION 21+00 TO STATION 23+20

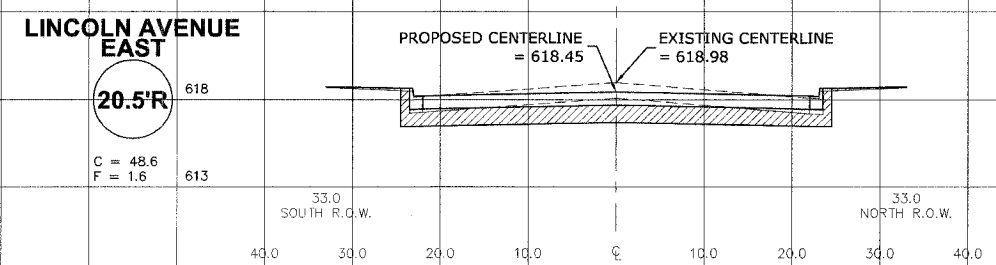
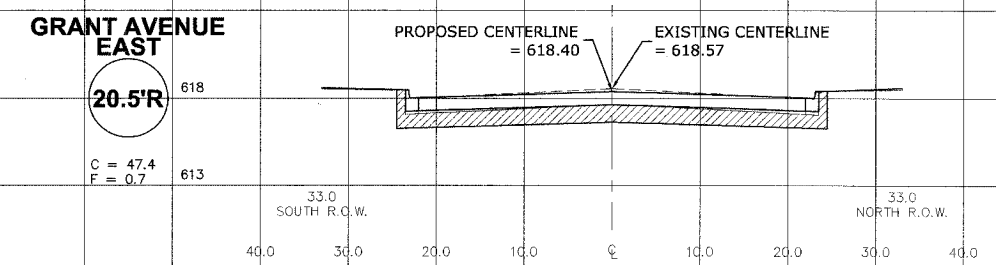
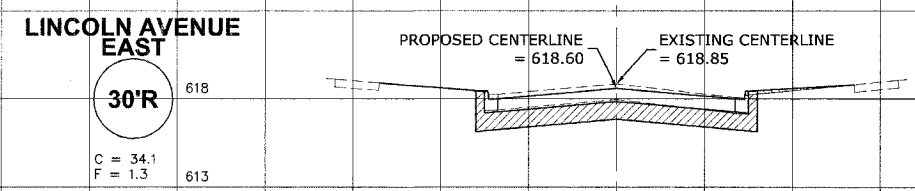
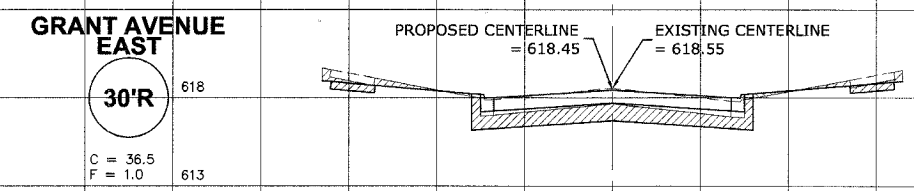
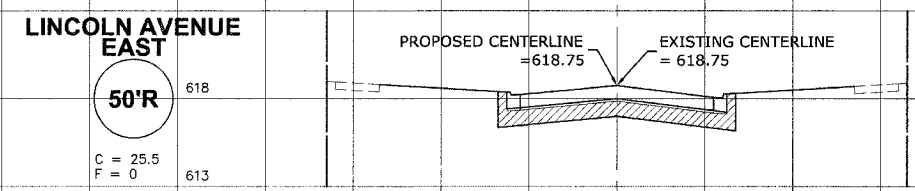
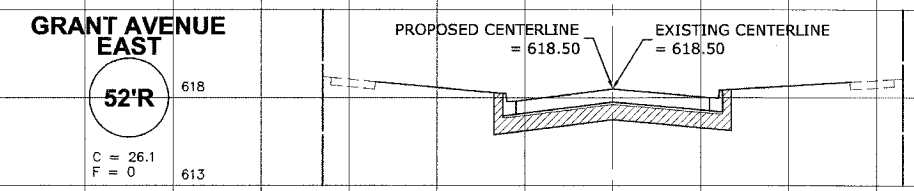
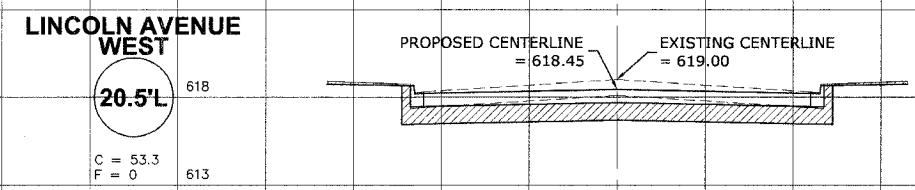
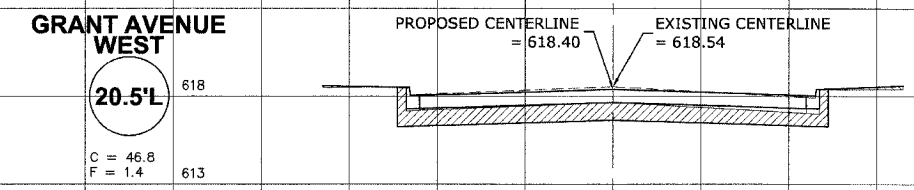
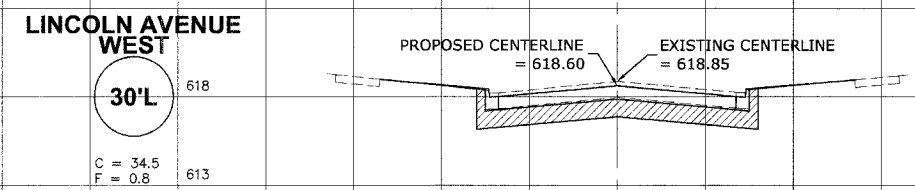
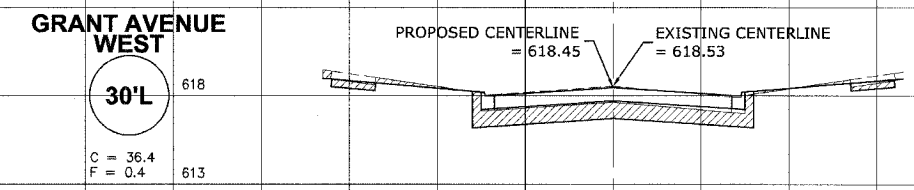
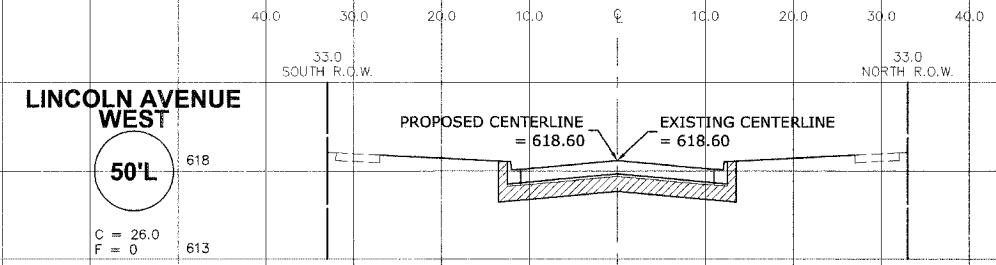
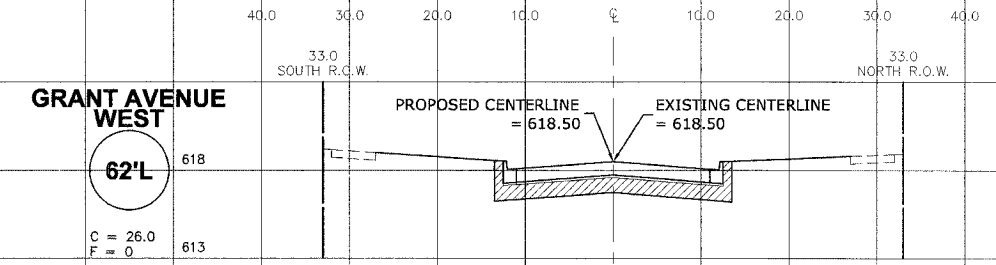
SCALE: 1"=10'H. & 1"=5'V SHEET 44/47
 DRAWN BY: MK/LEV
 BOOK NO.: #1475, #1504
 DATE: 10-6-06
 E.H.E. NO.: 125-04-26301 OF

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	45
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				

CROSS SECTION LEGEND

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)



Drawing file: W:\Projects\12504263 - Prairie Ave 2nd Phase\sect5\sect5.dwg Oct 05, 2006 - 2:50pm

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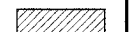
**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

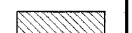
**GRANT AVENUE & LINCOLN AVENUE
STATION CROSS SECTIONS**

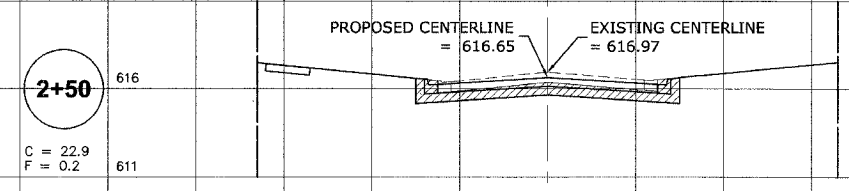
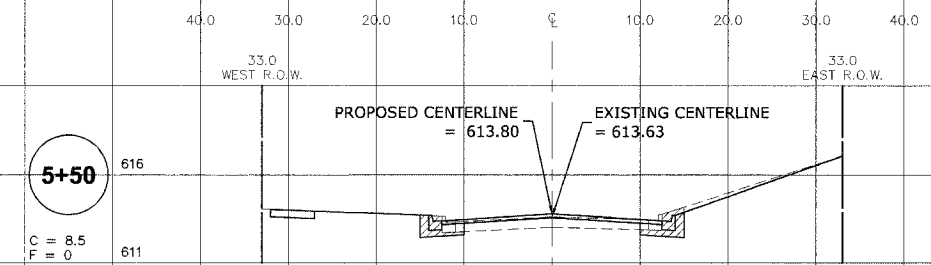
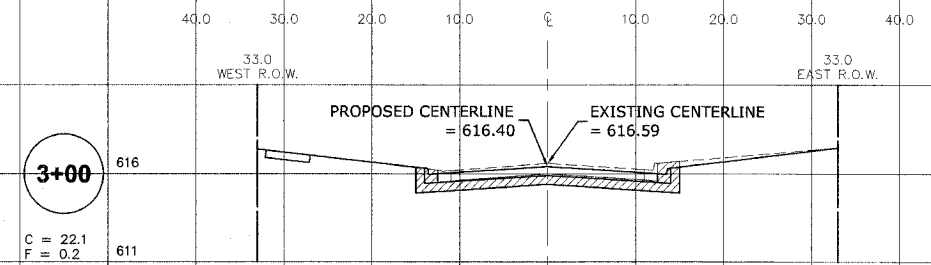
SCALE: 1"=10'H. & 1"=5'V	SHEET 45 47
DRAWN BY: MK/LEV	
BOOK NO.: #1475, #1504	
DATE: 10-6-06	
REVISION:	E.H.E. NO.: 125-04-26301

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	46
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				

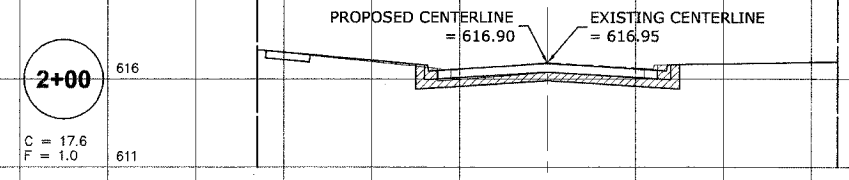
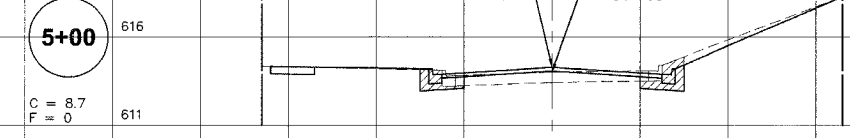
CROSS SECTION LEGEND

C = CUT (SQ. FT.) 

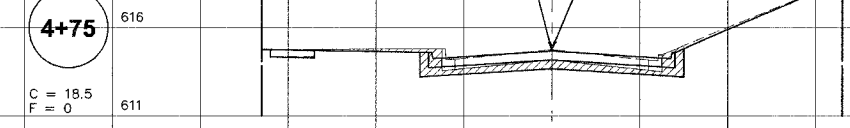
F = FILL (SQ. FT.) 



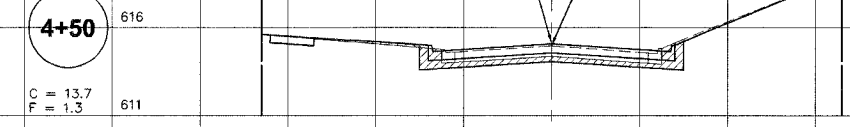
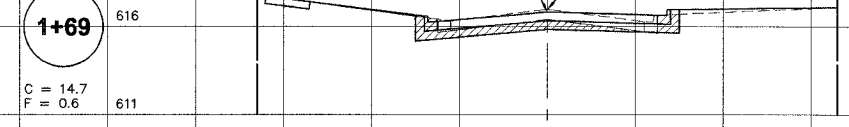
START PAVEMENT WIDENING



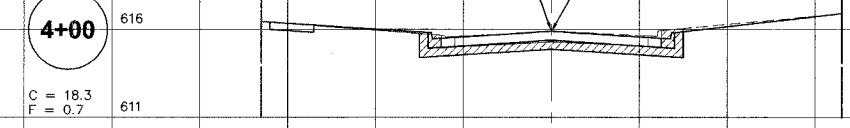
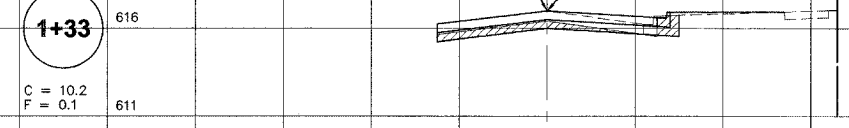
END RECONSTRUCTION



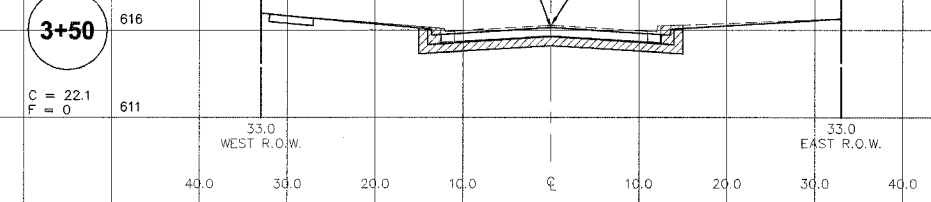
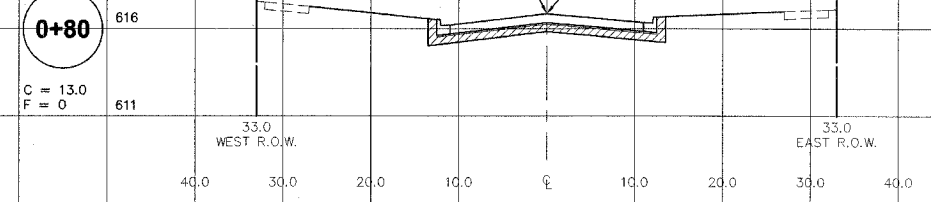
PT LINCOLN AVENUE



CL-CL LINCOLN AVENUE



BEGIN RECONSTRUCTION



Drawing file: W:\Projects\12504635 - Prairie Ave 2nd Phase\sect\sect6.dwg Oct 05, 2006 - 05:51pm



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**PRAIRIE AVENUE IMPROVEMENTS
 PHASE II
 VILLAGE OF BROOKFIELD, ILLINOIS**

**FOREST AVENUE
 STATION CROSS SECTIONS**

REVISION:

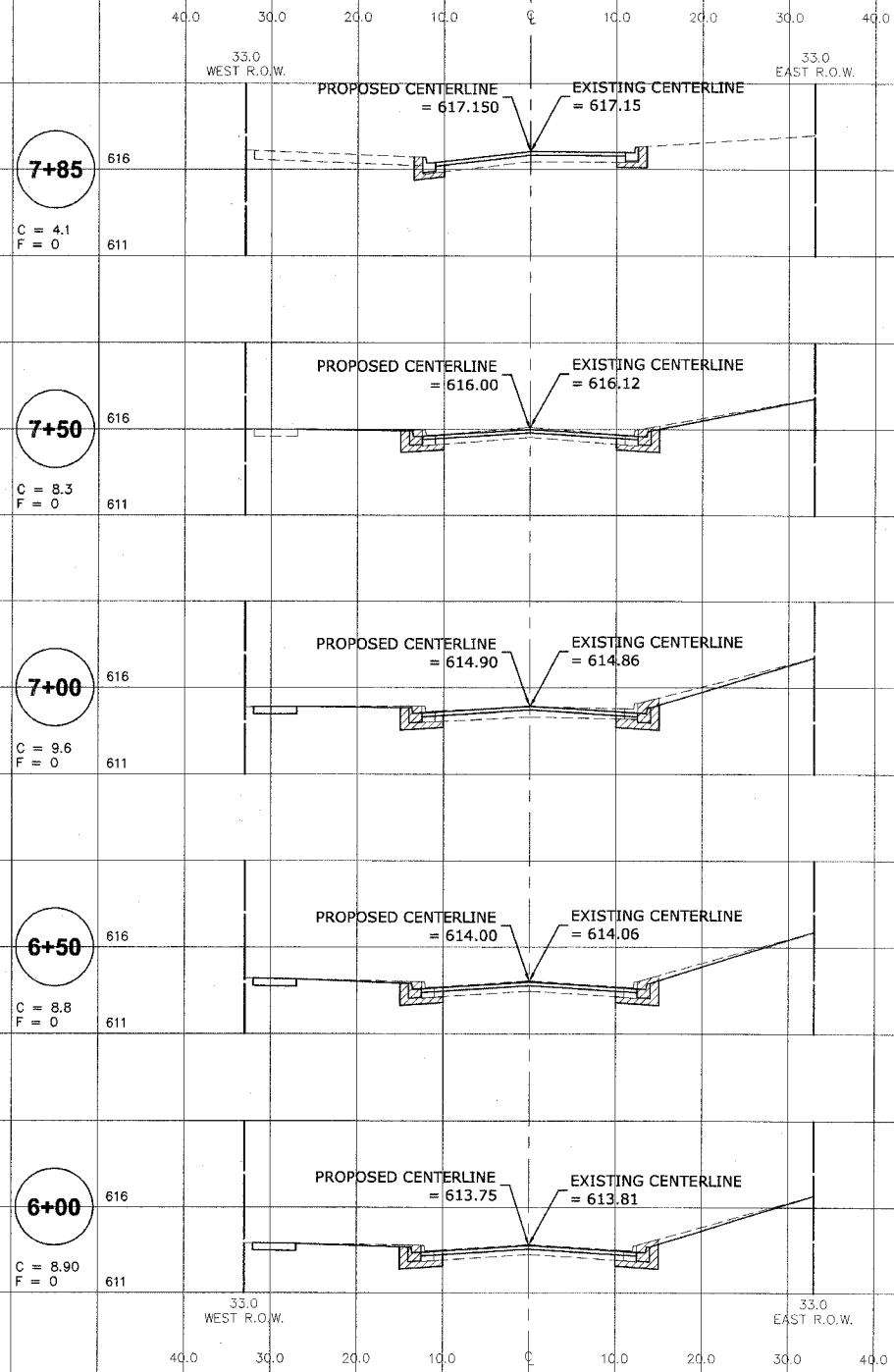
SCALE: 1"=10'H. & 1"=5'V
 DRAWN BY: MK/LEV
 BOOK NO.: #1475, #1504
 DATE: 10-6-06
 E.H.E. NO.: 125-04-26301

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2732	**	COOK	47	47
ILLINOIS PROJECT		M-8003(712)		
VILLAGE SECTION		00-00115-01-WR		
CONTRACT NO. 83881				

CROSS SECTION LEGEND

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)



Drawing file: W:\Projects\12504263 - Prairie Ave 2nd Phase\Asst7\Asst7.dwg Oct 05, 2006 - 3:35pm



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**PRAIRIE AVENUE IMPROVEMENTS
PHASE II
VILLAGE OF BROOKFIELD, ILLINOIS**

**FOREST AVENUE
STATION CROSS SECTIONS**

REVISION:

SCALE: 1" = 10'H. & 1" = 5'V
DRAWN BY: MK/LEV
BOOK NO.: #1475, #1504
DATE: 10-6-06
E.H.E. NO.: 125-04-26301

SHEET
47
OF
47