ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	1
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO.	63008			

INDEX OF SHEETS ON SHEET NO. 2

4-25-08 Letting, Item 047

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID PROJECT
LOCAL AGENCY PAVEMENT PRESERVATION (LAPP)
FAU ROUTE 1472 (WASHINGTON AVENUE)
PRAIRIE AVENUE TO GOLF ROAD
SECTION NO. 07-00123-00-RS
PROJECT M-8003(902)
VILLAGE OF BROOKFIELD
COOK COUNTY
JOB NO. C-91-080-08

LOCATION OF SECTION INDICATED THUS:

TRAFFIC DATA

2030 ADT = 5,075
POSTED SPEED LIMIT: 30 MPH
DESIGN SPEED 30 MPH

DESIGN DESIGNATION

COLLECTOR

PROJECT LOCATED IN THE VILLAGE OF BROOKFIELD

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.

811 Know what's below. Call before you dig.

CONTRACT NO. 63008

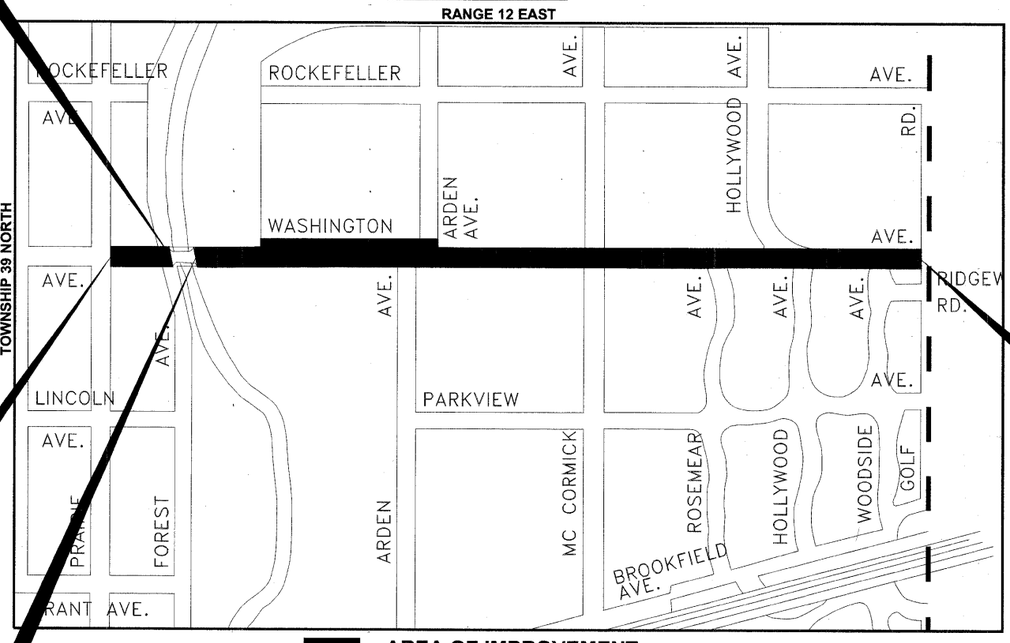
PROJECT OMISSION BEGINS STATION 102+80 WASHINGTON AVENUE

PROJECT BEGINS STATION 100+75 WASHINGTON AVENUE

PROJECT OMISSION ENDS STATION 104+20 WASHINGTON AVENUE

LOCATION MAP

RANGE 12 EAST



PROJECT ENDS STATION 132+95 WASHINGTON AVENUE

- AREA OF IMPROVEMENT

NOT TO SCALE

GROSS LENGTH OF IMPROVEMENT = 3,220 FT. = 0.61 MI.
NET LENGTH OF IMPROVEMENT = 3,080 FT. = 0.58 MI.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED January 22, 2008
VILLAGE OF BROOKFIELD, PRESIDENT

PASSED FEBRUARY 8, 2008
CHRISTOPHER HOLT
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW FEBRUARY 13, 2008
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

(PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS)

DEREK S. TREICHEL
62-048414
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

DATE SIGNED: 01-22-08

LICENSE EXPIRES: 11-30-09

EDWIN HANCOCK ENGINEERING COMPANY
9933 ROOSEVELT ROAD PHONE : (708) 865-0300
WESTCHESTER, ILLINOIS 60154

E.H.E. PROJECT NO. 125-07-13601

FIELD ENGINEER: MARILIN SOLOMON, (847)705-4407

Drawing file: W:\Projects\125071136 - Washington Avenue LAPP\Cover.dwg Jan 22, 2008 - 9:48am

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	2
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO.	63008			

INDEX OF SHEETS

I.D.O.T. STANDARD DRAWINGS

STANDARD NO.	TITLE OR DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-05	CURB RAMPS FOR SIDEWALKS
442101-07	CLASS B PATCHES
602601-01	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
606001-03	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701501-04	URBAN LANE CLOSURE, 2-LANE, 2-WAY, UNDIVIDED
701606-05	URBAN LANE CLOSURE, MULTILANE, 2-WAY WITH MOUNTABLE MEDIAN
701701-05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-03	LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS

LEGEND OF SYMBOLS

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

SYMBOL	DESCRIPTION
B	EXISTING HOT-MIX ASPHALT CONCRETE AREA
C	EXISTING CONCRETE AREA
	PROPOSED PCC BUTT JOINT
	PROPOSED HOT-MIX ASPHALT BUTT JOINT
	HOT-MIX ASPHALT SURFACE REMOVAL
	PORTLAND CEMENT CONCRETE SURFACE REMOVAL
	CONCRETE SIDEWALK AND DRIVEWAY REMOVAL
	PROPOSED CONCRETE AREA, 5" SIDEWALK, 7" DRIVEWAY
	PROPOSED HOT-MIX ASPHALT PAVING AREA
A	STRUCTURE TO BE ADJUSTED
A*	STRUCTURE TO BE ADJUSTED (SPECIAL)
F	FILLING VALVE VAULTS
1C	CLOSED LID TYPE 1
1P	OPEN LID TYPE 1
3P	OPEN LID TYPE 3
R-1C	STRUCTURE TO BE RECONSTRUCTED WITH A NEW TYPE 1 FRAME & LID (C = CLOSED, P = OPEN LID)
	EXISTING HANDHOLE
	PROPOSED HANDHOLE
"E"H	EXISTING HEAVY DUTY HANDHOLE
H	PROPOSED HEAVY DUTY HANDHOLE
	TRAFFIC SIGNAL CONTROLER
	DOUBLE HANDHOLE
⊗	EXISTING WATER VALVE BOX
	EXISTING CURB AND GUTTER
	PROPOSED CURB & GUTTER REMOVAL
	PROPOSED COMBINATION CONCRETE CURB & GUTTER B-6.24 (UNLESS NOTED ON PLANS)

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

WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

INDEX OF SHEETS, LEGEND OF SYMBOLS, & I.D.O.T. STANDARD DRAWINGS

REVISION:

SCALE:	NONE
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

SHEET 2 OF 20

Drawing file: W:\Projects\12507136 - Washington Avenue LAPP\INDEX.dwg Jan 15, 2008 - 1:40pm

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	3
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO. 63008				

GENERAL NOTES

STANDARDS

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AS SHOWN ON THE INDEX OF SHEETS IN THE PLANS. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2008, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY 1996 FIFTH EDITION, AND THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

UNDERGROUND UTILITIES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 811 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).

THE LOCATIONS OF THE UNDERGROUND UTILITIES IF SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD SURVEYS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT 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.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF BROOKFIELD.

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 604.04 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE. ALL LIDS ON SANITARY MANHOLES, COMBINED SEWER MANHOLES, AND VALVE VAULTS SHALL BE OF THE SELF SEALING TYPE.

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. THESE ITEMS SHALL BE DELIVERED TO THE VILLAGE OF BROOKFIELD.

MANHOLE OR VALVE COVERS

THE WORD "WATER", "SANITARY", OR "STORM" SHALL BE CAST INTO THE LID OF EACH RESPECTIVE MANHOLE OR VALVE VAULT.

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AS TO MAINTAIN AT ALL TIMES FLOW 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. EXISTING STRUCTURES ARE TO BE INSPECTED BEFORE CONSTRUCTION STARTS - ANY ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.

MAINTENANCE OF EXISTING DRAINAGE STRUCTURES

WHEN DURING THE CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF ANY GUTTERS AND 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 DUE TO CONSTRUCTION OPERATIONS. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.

SAW CUTTING

THE CONTRACTOR SHALL SAW CUT ASPHALT PAVEMENT AND DRIVEWAY PAVEMENT AS INDICATED ON THE PLANS TO SEPARATE THE EXISTING PAVEMENT TO BE REMOVED BY APPROVED MEANS OR 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 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 COST OF SAW CUTTING DESCRIBED ABOVE SHALL BE INCLUDED IN THE ITEM BEING REMOVED. SAW CUTS FOR PAVEMENT PATCHING WILL BE PAID FOR IN THE CONTRACT.

FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)

THIS ITEM ONLY PERTAINS TO STRUCTURES LOCATED IN THE CONCRETE AND HOT-MIX ASPHALT ROADWAY PAVEMENT AREAS THAT WILL REQUIRE CONCRETE OR HOT-MIX SURFACE REMOVAL. ALL STRUCTURES IN THE CURB AND GUTTER OR WITHIN THE RAISED MEDIANS WILL NOT BE DONE UNDER THIS ITEM. THE ENGINEER WILL MARK IN THE FIELD ALL STRUCTURES TO BE DONE UNDER THIS ITEM. SEE "DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING."

PRIME COAT

PRIME COAT MUST BE INSTALLED NO EARLIER THAN TWENTY-FOUR (24) HOURS PRIOR TO PLACEMENT OF HOT-MIX ASPHALT.

FIELD OFFICE

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT OR THE VILLAGE .

BARRICADES

THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED, ONE (1) WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL

BUTT JOINTS

BUTT JOINT WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT). IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

MILLED PAVEMENT OPEN TO TRAFFIC

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H)

PAVING OPERATIONS

CONTRACTOR MUST PAVE WASHINGTON AVENUE IN A MAXIMUM OF 2 PASSES. IF THE CONTRACTOR IS NOT ABLE TO COMPLETE ALL PAVING ONE (1) DAY, THE CENTERLINE JOINT SHALL BE SEALED.

PAVEMENT PATCHING

LOCATIONS OF CLASS B PATCHES ON PLANS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN FIELD BY ENGINEER.

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

WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

GENERAL NOTES

REVISION:

SCALE:	NONE
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

SHEET 3 OF 20

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	4
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO.	63008			

SUMMARY OF QUANTITIES

	CODE	PAY ITEM	UNIT	TOTAL QUANTITY	1000 60% FEDERAL 40% VILLAGE
	20800150	TRENCH BACKFILL	CUYD	25	25
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQYD	300	300
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	5	5
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	5	5
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	5	5
	25200100	SODDING	SQYD	300	300
	25200200	SUPPLEMENTAL WATERING	UNIT	20	20
	40201000	AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS	TON	50	50
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	800	800
	40600300	AGGREGATE (PRIME COAT)	TON	20	20
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	30	30
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQYD	250	250
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50	TON	1,200	1,200
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	10	10
	42101300	PROTECTIVE COAT	SQYD	450	450
	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQYD	150	150
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQFT	800	800
	42400800	DETECTABLE WARNINGS	SQFT	100	100
	44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQYD	10,500	10,500
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQYD	125	125
	44000600	SIDEWALK REMOVAL	SQFT	900	900
	44001700	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	650	650
	44200948	CLASS B PATCHES, TYPE I, 9 INCH	SQYD	40	40
	44200956	CLASS B PATCHES, TYPE II, 9 INCH	SQYD	150	150
	44200962	CLASS B PATCHES, TYPE III, 9 INCH	SQYD	75	75
	44200964	CLASS B PATCHES, TYPE IV, 9 INCH	SQYD	410	410
	60213800	RESTRICTED DEPTH CATCH BASINS, 4' DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1
	60228110	MANHOLES, SANITARY, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1
	60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1	1
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1
	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	18	18
	60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	17	17
	60404300	FRAMES AND GRATES, TYPE 3	EACH	12	12
	60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	6	6
	60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	13	13
	60500405	FILLING VALVE VAULTS	EACH	1	1
	70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	900	900
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	800	800
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	175	175
	X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	525	525
	X7015000	CHANGEABLE MESSAGE SIGN	CAL-MO	2	2
	Z0004900	BITUMINOUS MIXTURE FOR PATCHING POTHOLES (HOT MIX)	TON	20	20
	XX006203	STORM SEWERS, PVC SDR 26, 8"	FOOT	90	90
	XX104100	CONNECTION TO EXISTING MANHOLE	EACH	3	3

* DENOTES SPECIALTY ITEM

HANCOCK ENGINEERING
Civil Engineers
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9933 Roosevelt Road
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Fax: 708/865-1212

WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

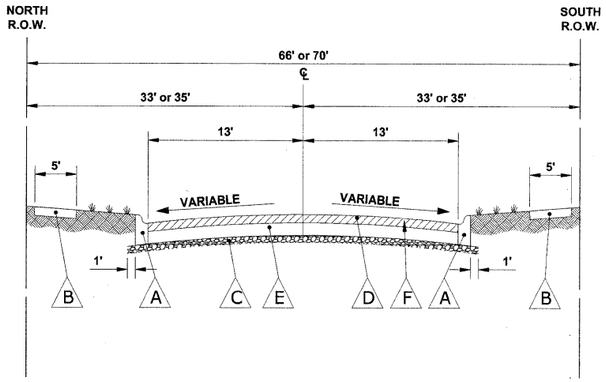
SUMMARY OF QUANTITIES

REVISION:

SCALE:	NONE
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

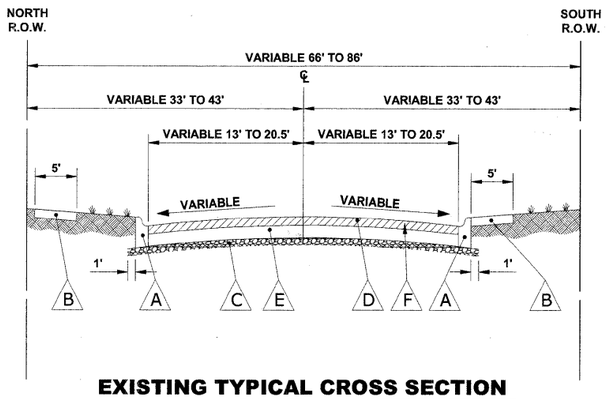
SHEET 4 OF 20

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	5
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO.	63008			



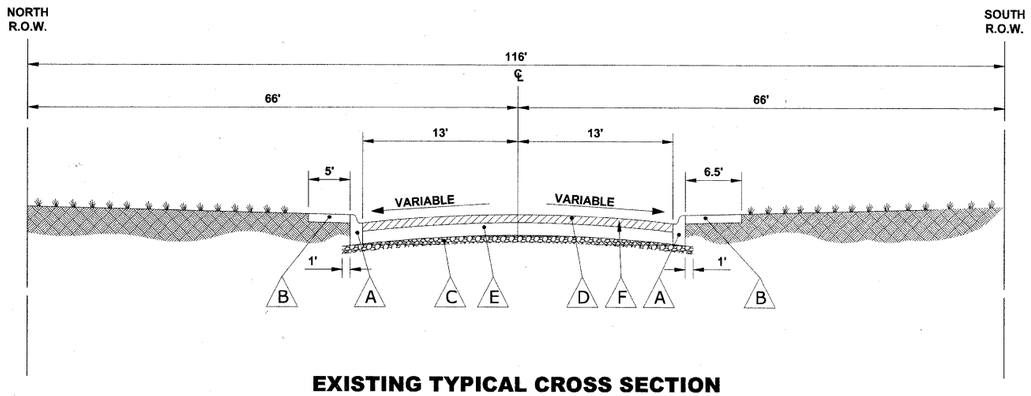
EXISTING TYPICAL CROSS SECTION

WASHINGTON AVENUE
STATION 100+75 TO STATION 102+80
STATION 112+70 TO STATION 131+65



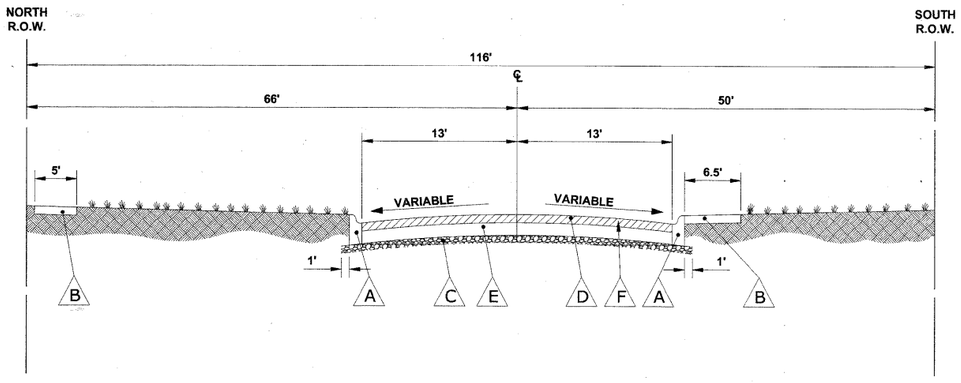
EXISTING TYPICAL CROSS SECTION

WASHINGTON AVENUE
STATION 131+65 TO STATION 132+95



EXISTING TYPICAL CROSS SECTION

WASHINGTON AVENUE
STATION 104+20 TO STATION 106+65



EXISTING TYPICAL CROSS SECTION

WASHINGTON AVENUE
STATION 106+65 TO STATION 112+70

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
A	EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
B	EXISTING PORTLAND CEMENT CONCRETE SIDEWALK, 5"
C	EXISTING SUB-BASE GRANULAR MATERIAL, 4"
D	EXISTING HOT-MIX ASPHALT SURFACE COURSES, 3-1/2" & VARIABLE
E	EXISTING CONCRETE BASE COURSE, 8"
F	PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2-1/2"

HANCOCK ENGINEERING
◆ Civil Engineers
◆ Municipal Consultants
◆ Established 1911
9933 Roosevelt Road
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WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

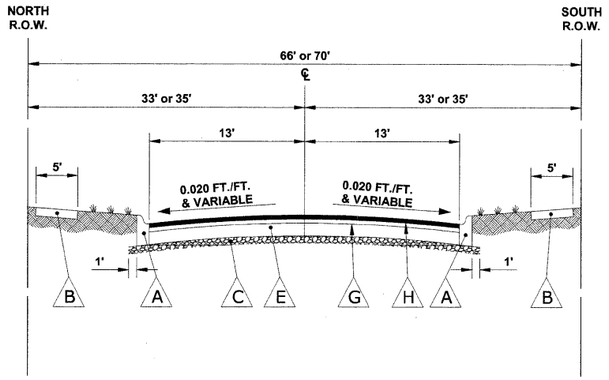
EXISTING TYPICAL CROSS SECTIONS

REVISION:

SCALE:	NONE
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

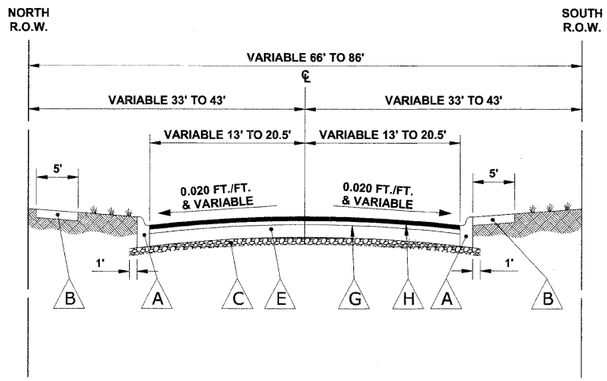
SHEET 5 OF 20

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	6
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO	63008			



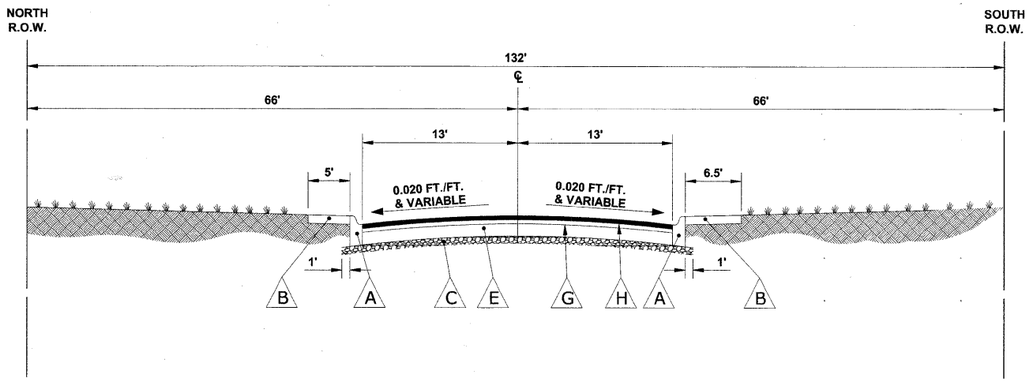
PROPOSED TYPICAL CROSS SECTION

WASHINGTON AVENUE
STATION 100+75 TO STATION 102+80
STATION 112+70 TO STATION 131+65



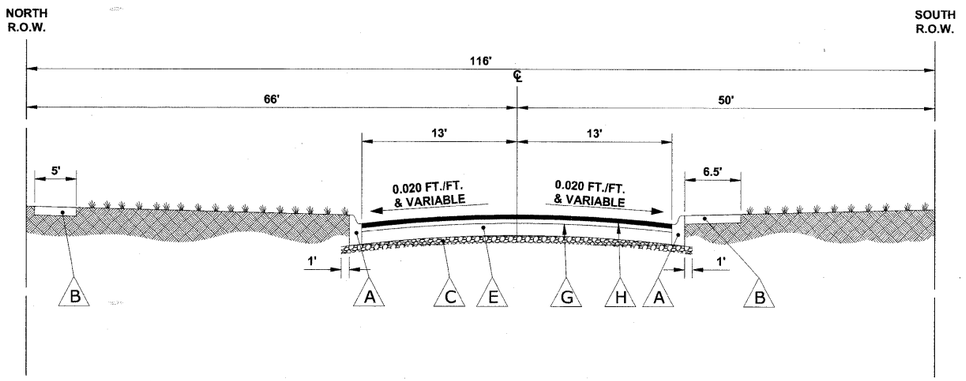
PROPOSED TYPICAL CROSS SECTION

WASHINGTON AVENUE
STATION 131+65 TO STATION 132+95



PROPOSED TYPICAL CROSS SECTION

WASHINGTON AVENUE
STATION 104+20 TO STATION 106+65



PROPOSED TYPICAL CROSS SECTION

WASHINGTON AVENUE
STATION 106+65 TO STATION 112+70

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
A	EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
B	EXISTING PORTLAND CEMENT CONCRETE SIDEWALK, 5"
C	EXISTING SUB-BASE GRANULAR MATERIAL, 4"
E	EXISTING CONCRETE BASE COURSE, 8"
G	PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) IL-4.75, N50, MINIMUM 3/4"
H	PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 1-3/4"

HOT-MIX ASPHALT (HMA) MIXTURE REQUIREMENTS

ITEM	A C TYPE *	VOIDS
HMA SURFACE COURSE, MIX D, N50, IL - 9.5 mm	PG 64-22	4% @ 50 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	SBS/SBR PG 76-28/22	4% @ 50 GYR.
INCIDENTAL HOT-MIX ASPHALT SURFACING, MIX "C", N50	PG 64-22	4% @ 50 GYR.
HOT-MIX ASPHALT MIXTURE FOR PATCHING POTHOLES, MIX "C", N50	PG 64-22	4% @ 50 GYR.

* THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE IS 112 LBS/SQYD/IN AND THE UNIT WEIGHT USED TO CALCULATE POLYMERIZED LEVELING BINDER IS 105 LBS/SQYD/IN.

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

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WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

PROPOSED TYPICAL CROSS SECTIONS

REVISION:

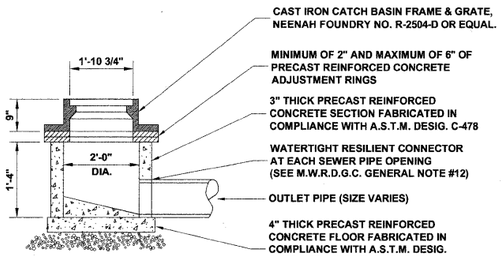
SCALE:	NONE
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

SHEET 6 OF 20

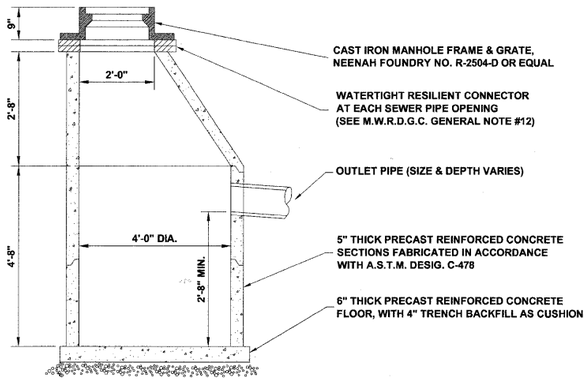
Drawing file: W:\Projects\12507136 - Washington Avenue LAPP\TYPSEC.dwg Jan 15, 2008 - 1:59pm

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	7
ILLINOIS PROJECT	M-8003(902)			

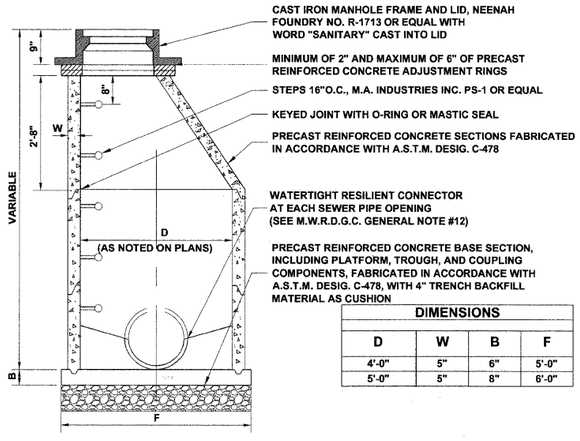
CONTRACT NO. 63008



INLET, TYPE "A"

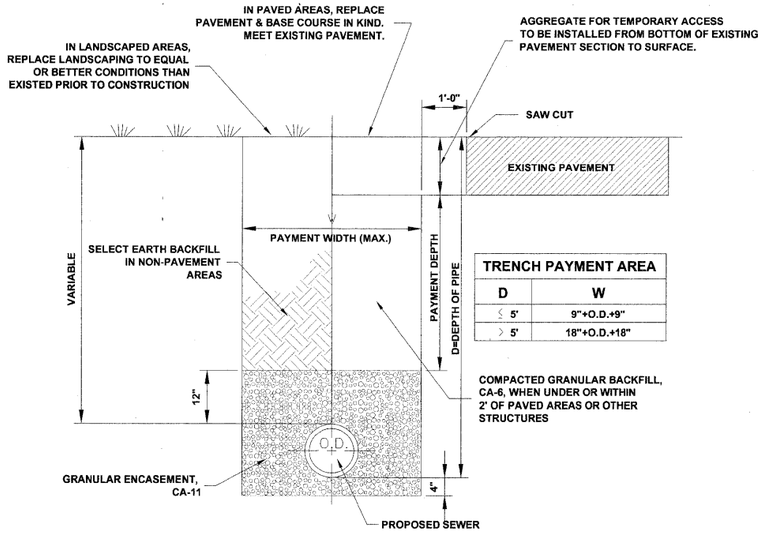


CATCH BASIN, TYPE A



DIMENSIONS			
D	W	B	F
4'-0"	5"	6"	5'-0"
5'-0"	5"	8"	6'-0"

STANDARD SEWER MANHOLE

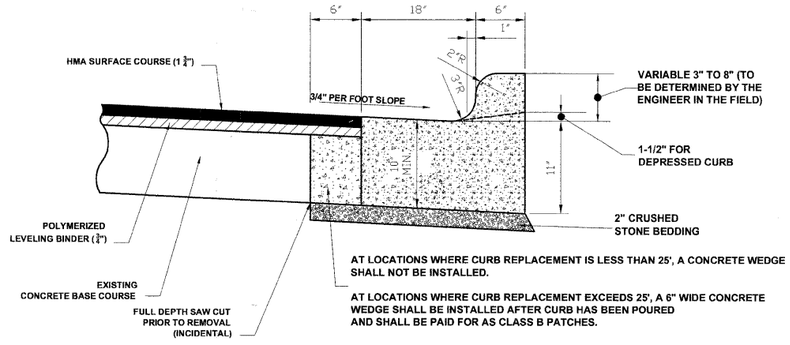


TRENCH PAYMENT AREA	
D	W
≤ 5'	9"+O.D.+9"
> 5'	18"+O.D.+18"

TYPICAL SEWER TRENCH DETAIL

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

1. THE MWRD 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. ALL PVC SEWER PIPE 12" IN DIAMETER OR LESS SHALL CONFORM TO ASTM D-2241 (WATER QUALITY PIPE). ALL PVC SEWER PIPE 15" OR GREATER SHALL CONFORM TO ASTM D-3034. ALL PVC SEWER PIPE SHALL BE SDR 26.
6. ALL SANITARY SEWER CONSTRUCTION, AND ALSO STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS, REQUIRES STONE BEDDING 1/4" 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 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 WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS 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 WATERMAIN 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 WATERMAIN, THE SEWER SHALL BE CONSTRUCTED WATERMAIN STANDARDS.
10. 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.
11. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG, NON-SHRINK CONCRETE/MORTAR PLUG.
12. 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.
13. THE MAXIMUM ALLOWABLE INFILTRATION OR EX-FILTRATION IS 100 GAL/DAY/MILE/INCH DIA. OF SEWER PIPE.



COMBINATION CONCRETE CURB & GUTTER
TYPE B-6.24 (MODIFIED)

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WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

DETAILS & NOTES

REVISION:

SCALE:	NONE
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

SHEET 7 OF 20

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	8
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO.	63008			

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION	CODE & SIZE
RCLA	ROAD CLOSED AHEAD	W20-3 48"x48"
DA	DETOUR AHEAD	W20-2 48"x48"
RC	ROAD CLOSED	R11-4 60"x30"
RC T T T	ROAD CLOSED TO THRU TRAFFIC	R11-4 60"x30"
E	EAST	M3-1 24"X12"
W	WEST	M3-1 24"X12"
WA	WASHINGTON AVE.	M4-8 36"X12"

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION	CODE & SIZE
ED	END DETOUR	M4-8 24"x18"
D	DETOUR	M4-9 30"x24"
D	DETOUR	M4-9 30"x24"
D	DETOUR	M4-9 30"x24"
D	DETOUR	M4-9R 24"x30"
D	DETOUR	M4-9L 24"x30"
D	DETOUR	M4-10 48"X18"
D	DETOUR	M4-10 48"X18"

NOTE:

CONTRACTOR TO NOTIFY IDOT HEAD OF TRAFFIC MAINTENANCE (847)705-4470, SEVENTY-TWO HOURS IN ADVANCE OF SETTING UP DETOUR ROUTE.

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WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

MAINTENANCE OF TRAFFIC PLAN

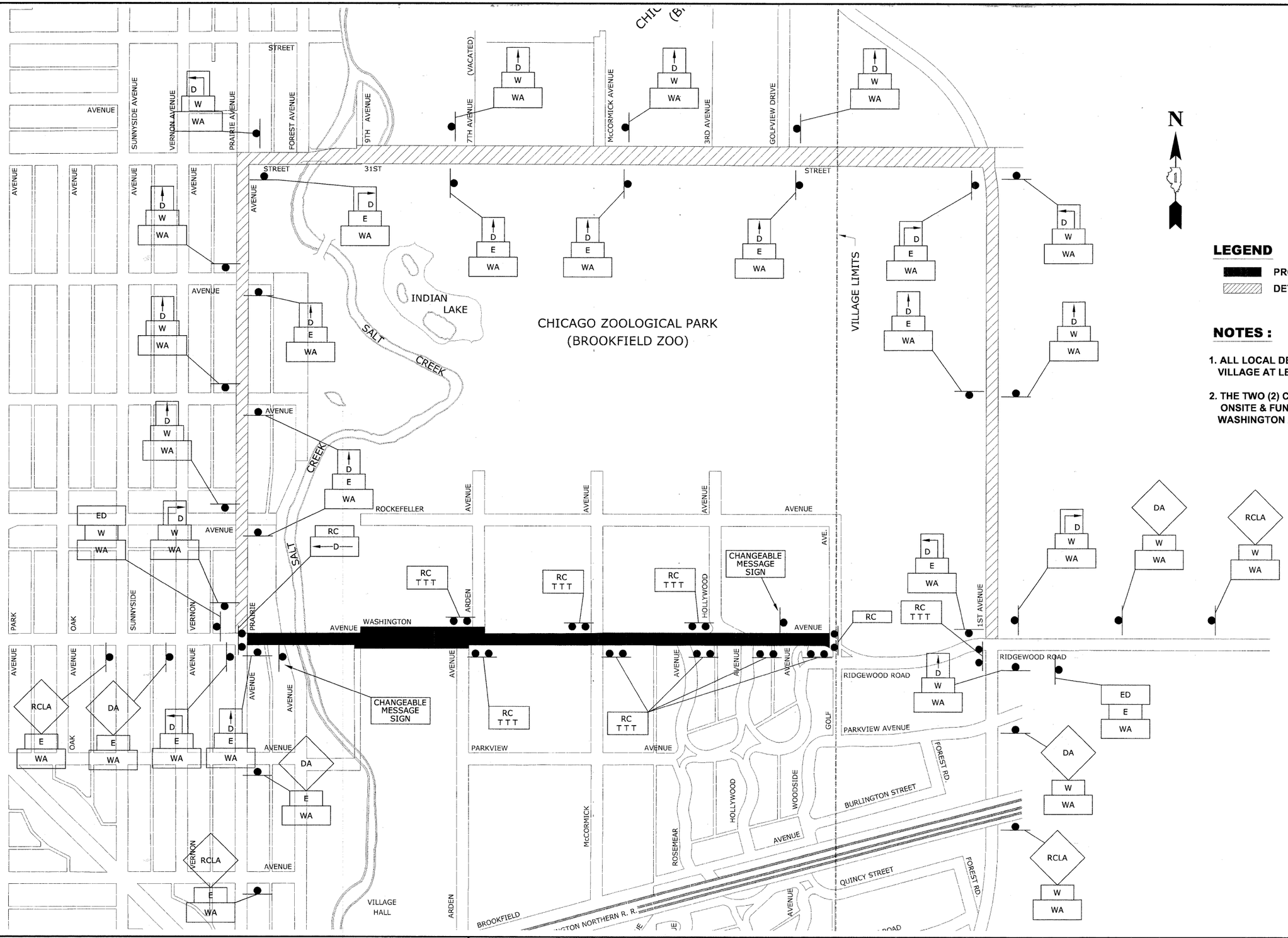
REVISION:

SCALE:	NOT TO SCALE
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

SHEET 8 OF 20

Drawing file: w:\Projects\2507136 - Washington Avenue LAPP\Maintenance of Traffic.dwg Jan 15, 2008 - 3:44pm

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	9
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO.	63008			



N

LEGEND

- PROJECT LOCATION
- DETOUR ROUTE

NOTES :

1. ALL LOCAL DETOURS SHALL BE BE APPROVED BY THE VILLAGE AT LEAST 48 HOURS PRIOR TO INSTALLATION.
2. THE TWO (2) CHANGEABLE MESSAGE SIGN ARE TO BE ONSITE & FUNCTIONING FOR TWO (2) WEEKS PRIOR TO WASHINGTON AVENUE BEING CLOSED.

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WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

DETOUR SIGNING FOR THROUGH TRAFFIC WHEN WASHINGTON AVENUE IS CLOSED

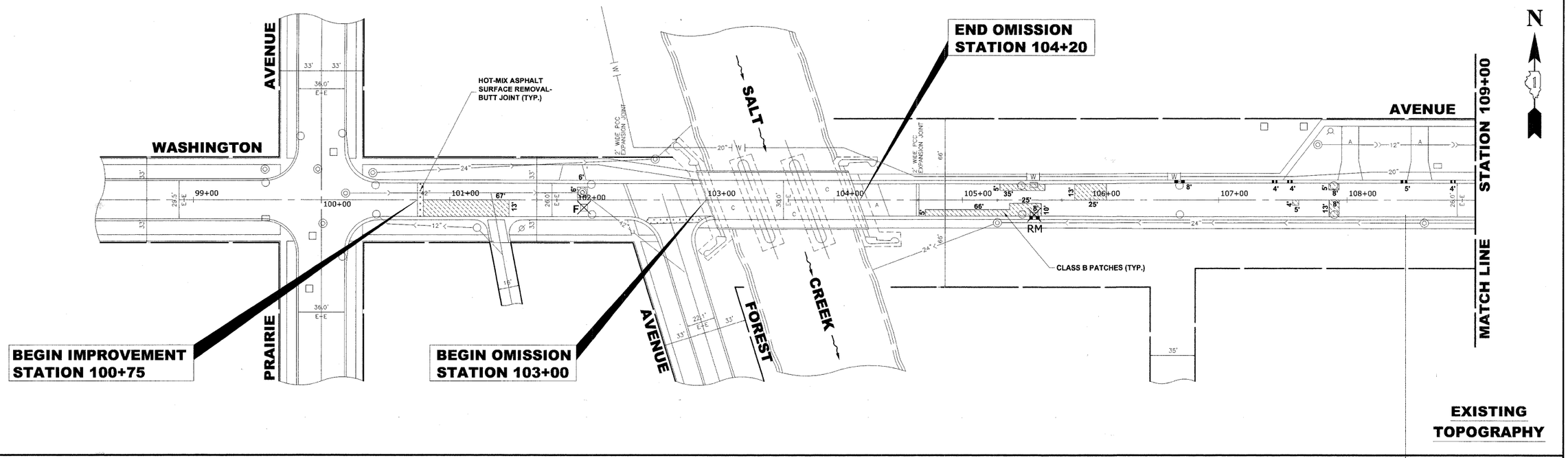
REVISION:

SCALE:	NOT TO SCALE
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

SHEET 9 OF 20

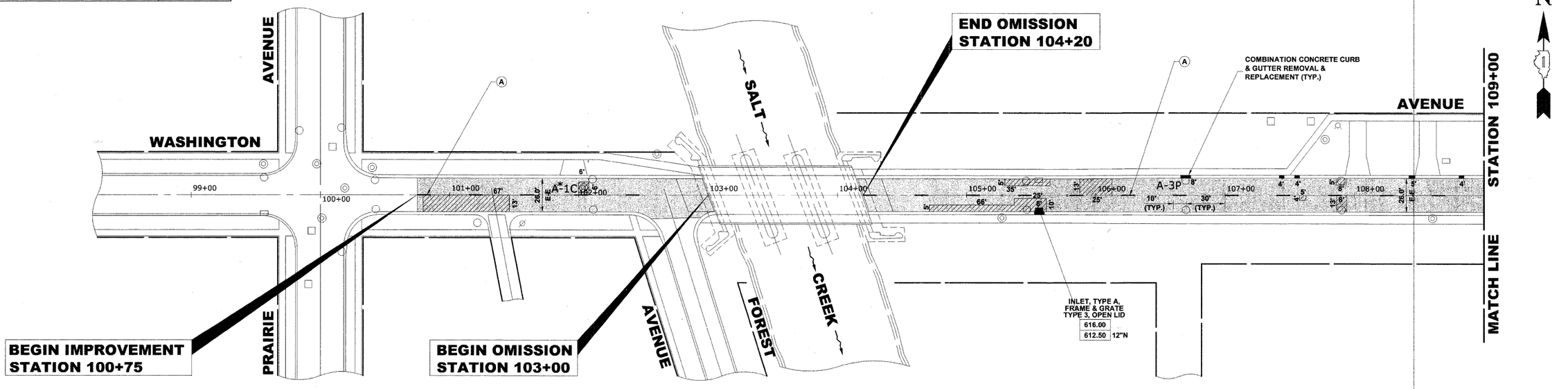
Drawing File: W:\Projects\12507136 - Washington Avenue IJPP\Maintenance of Traffic.dwg Jan 22, 2008 - 9:05am

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	10
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO. 63008				



EXISTING TOPOGRAPHY

ITEM DESCRIPTION	SYMBOL
THERMOPLASTIC PVMT. MARKING LINE 4", 30" SKIP 10' DASH, YELLOW	A
THERMOPLASTIC PVMT. MARKING LINE 12", SCHOOL CROSSWALK @ 36" C-C, WHITE	B
THERMOPLASTIC PVMT. MARKING LINE 24", STOP BAR, WHITE	C



PROPOSED IMPROVEMENT

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WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

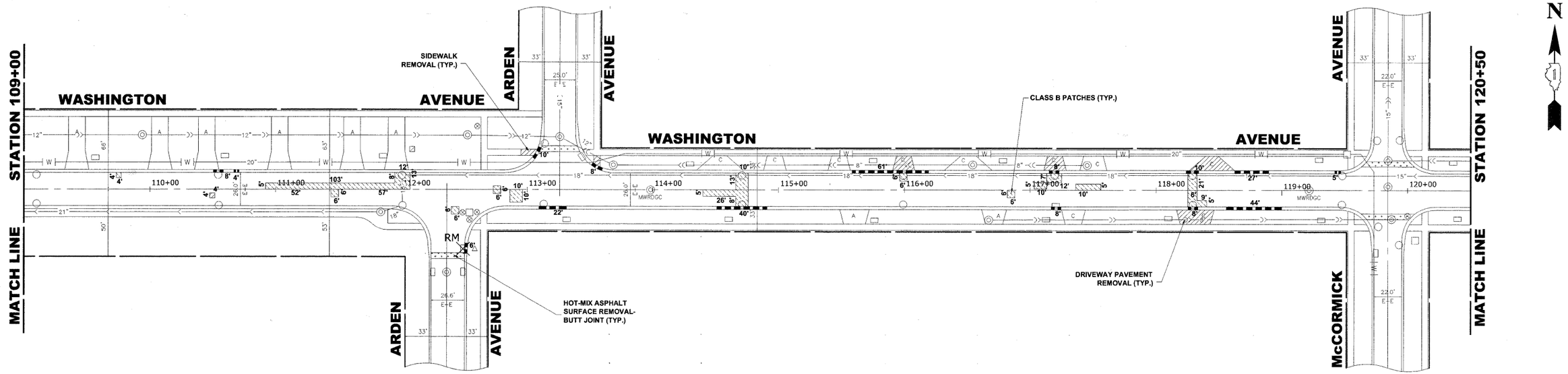
WASHINGTON AVENUE
PAVING PLAN

REVISION:

SCALE:	1" = 40'
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

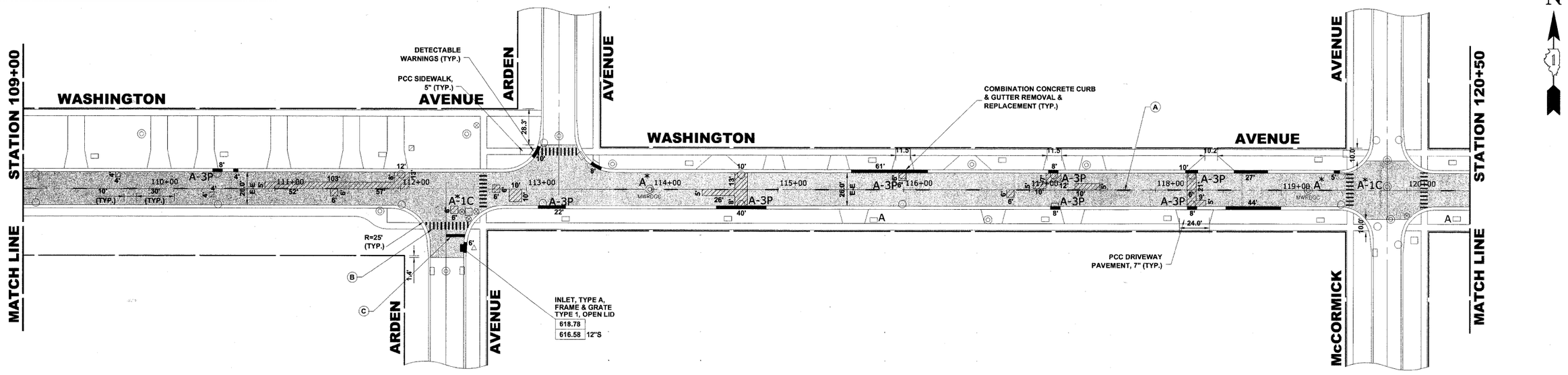
SHEET 10 OF 20

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	11
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO. 63008				



EXISTING TOPOGRAPHY

ITEM DESCRIPTION	SYMBOL
THERMOPLASTIC PVMT. MARKING LINE 4", 30" SKIP 10' DASH, YELLOW	A
THERMOPLASTIC PVMT. MARKING LINE 12", SCHOOL CROSSWALK @ 36" C-C, WHITE	B
THERMOPLASTIC PVMT. MARKING LINE 24", STOP BAR, WHITE	C



PROPOSED IMPROVEMENT

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WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

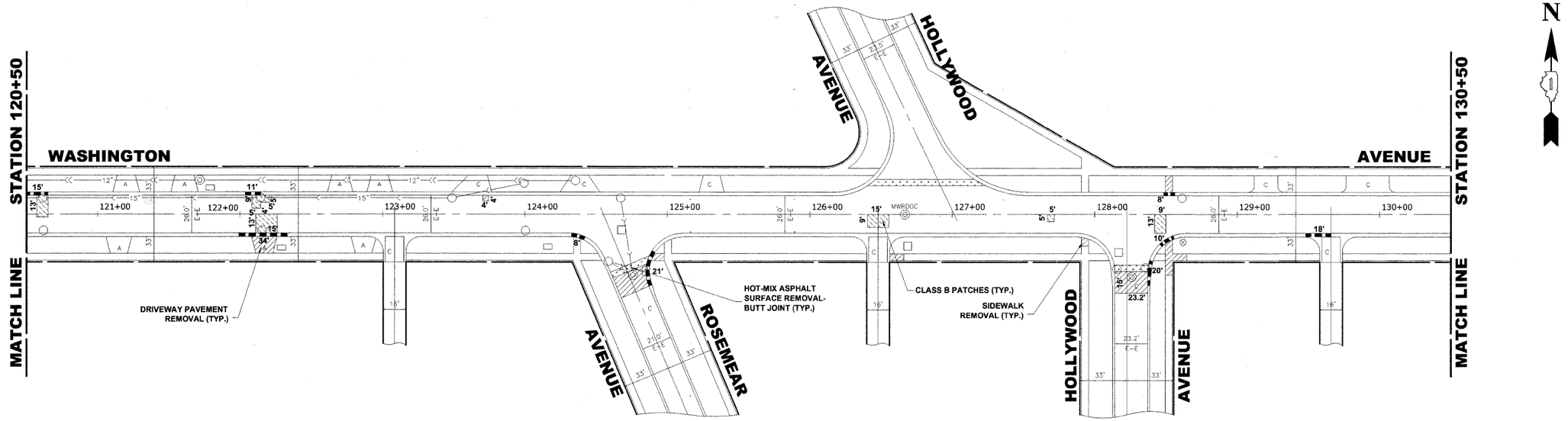
WASHINGTON AVENUE
PAVING PLAN

REVISION:

SCALE:	1" = 40'
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

SHEET 11 OF 20

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	12
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO. 63008				



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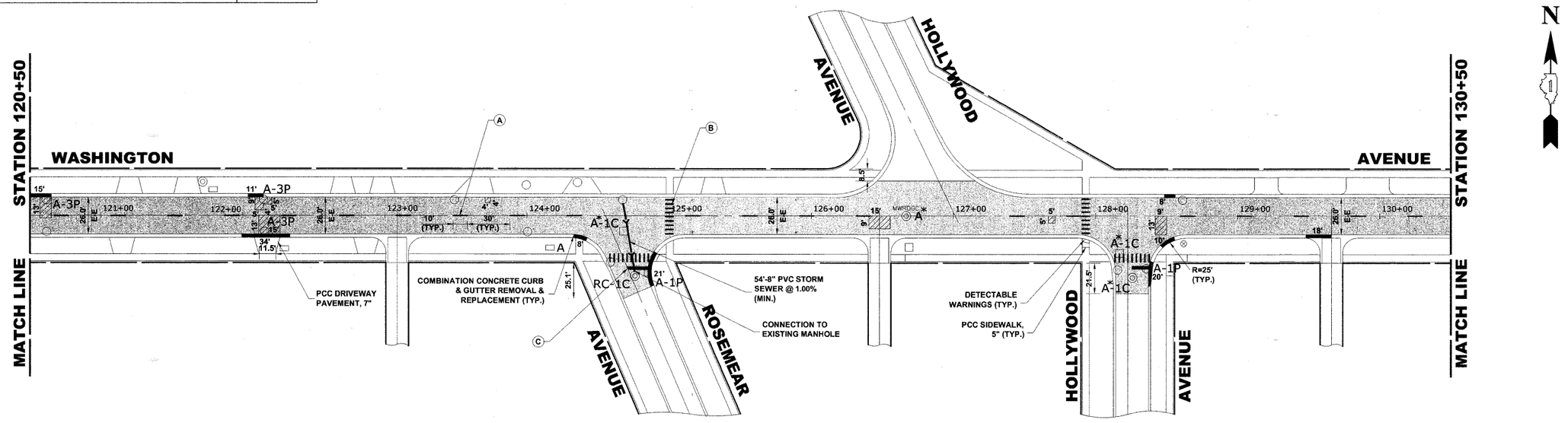
EXISTING TOPOGRAPHY

ITEM DESCRIPTION	SYMBOL
THERMOPLASTIC PVMT. MARKING LINE 4", 30" SKIP 10' DASH, YELLOW	A
THERMOPLASTIC PVMT. MARKING LINE 12", SCHOOL CROSSWALK @ 36" C-C, WHITE	B
THERMOPLASTIC PVMT. MARKING LINE 24", STOP BAR, WHITE	C



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WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

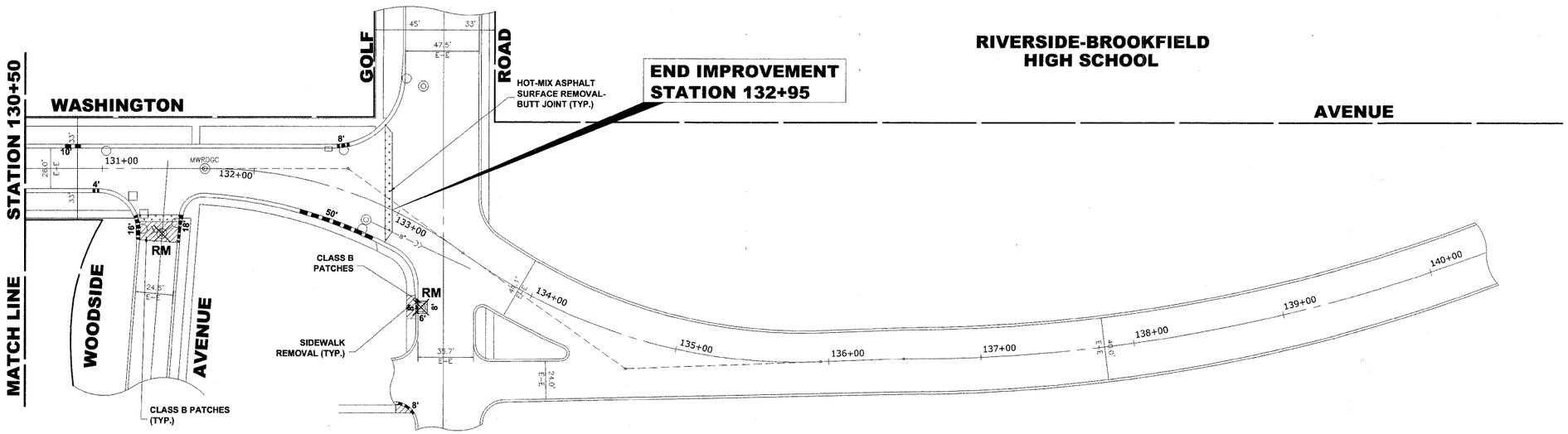
WASHINGTON AVENUE PAVING PLAN

REVISION:

SCALE:	1" = 40'
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

SHEET 12 OF 20

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	13
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO.	63008			



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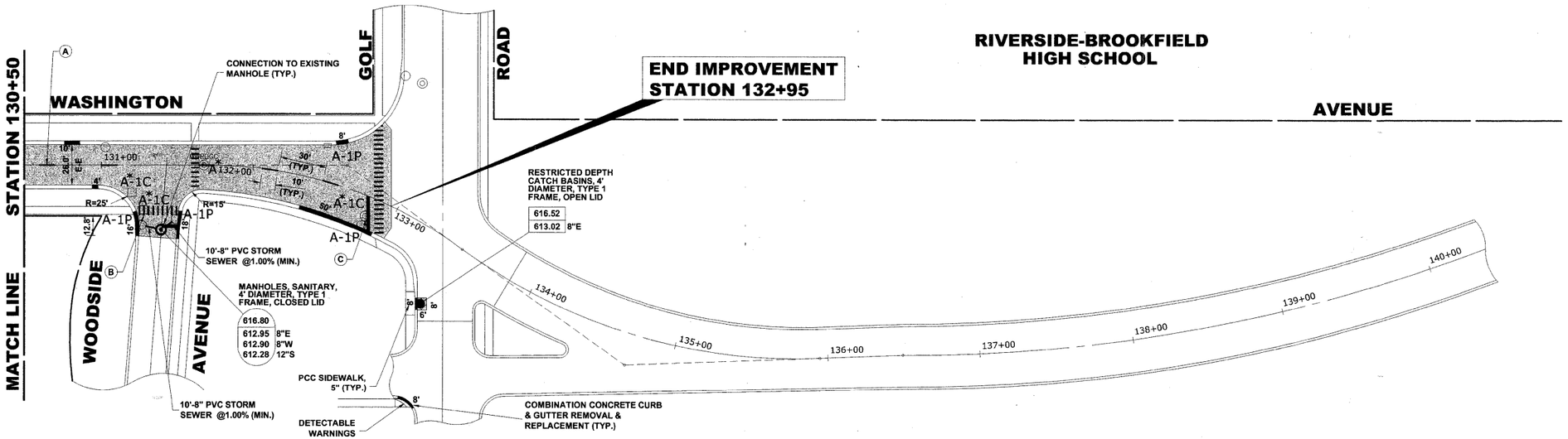
EXISTING TOPOGRAPHY

ITEM DESCRIPTION	SYMBOL
THERMOPLASTIC PVMT. MARKING LINE 4", 36" SKIP 10' DASH, YELLOW	A
THERMOPLASTIC PVMT. MARKING LINE 12", SCHOOL CROSSWALK @ 36" C-C, WHITE	B
THERMOPLASTIC PVMT. MARKING LINE 24", STOP BAR, WHITE	C



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PROPOSED IMPROVEMENT

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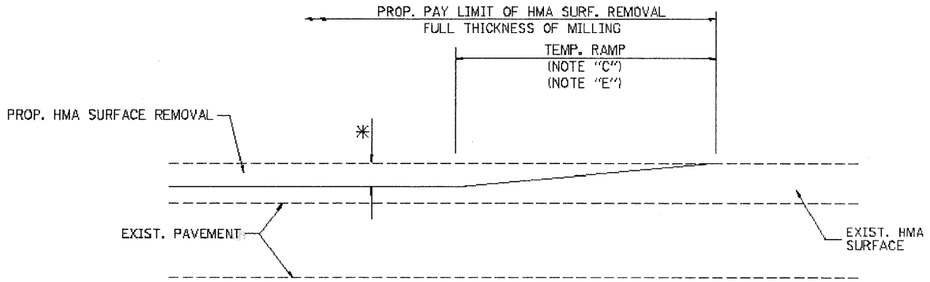
WASHINGTON AVENUE
PROJECT NO. M- 8003(902)
VILLAGE SECTION 07-00123-00-RS
VILLAGE OF BROOKFIELD, ILLINOIS

WASHINGTON AVENUE
PAVING PLAN

REVISION:

SCALE:	1" = 40'
DRAWN BY:	LEV/MK
BOOK NO.:	SCANS/BP/LS
DATE:	1-16-08
E.H.E. NO.:	125-07-13601

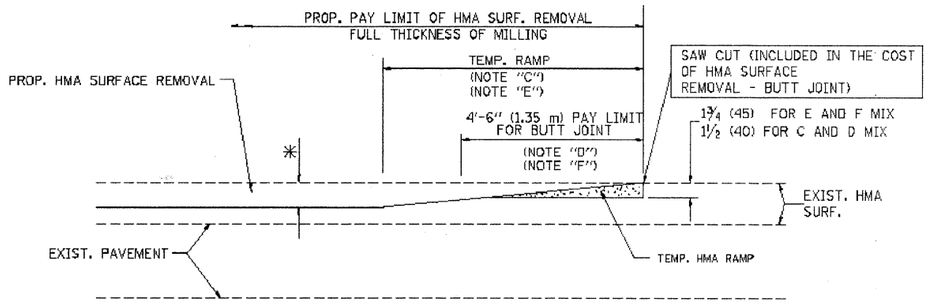
SHEET 13 OF 20



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

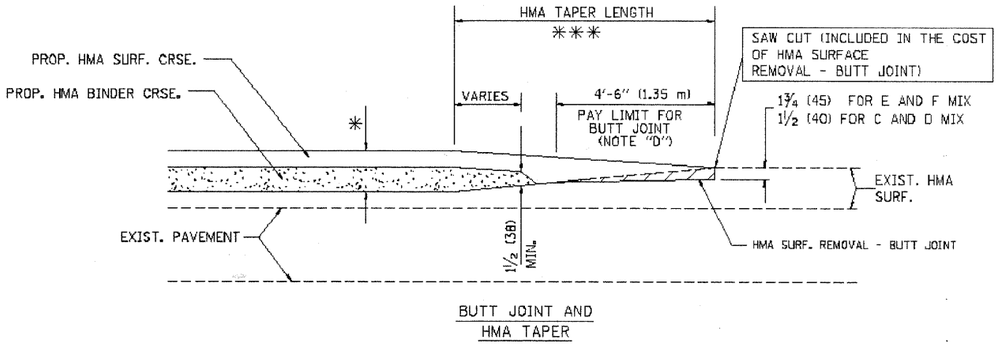


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

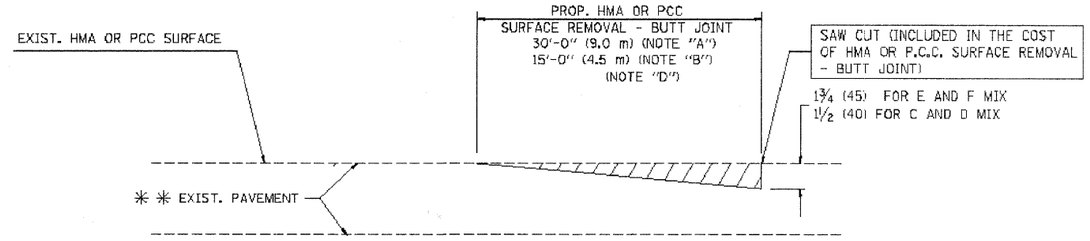
TYPICAL TEMPORARY RAMP



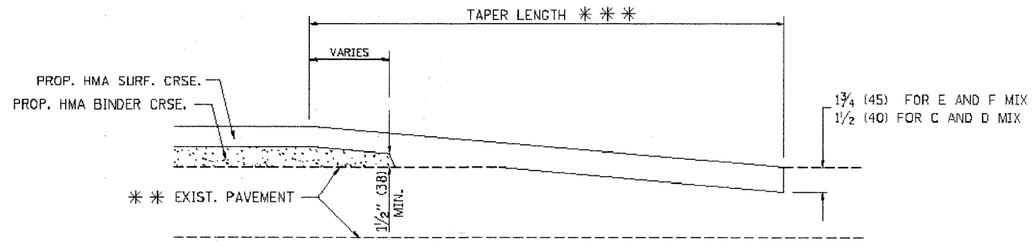
BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	14
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO. 63008				



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

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

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

BASIS OF PAYMENT:

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

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. HORIZ. NONE

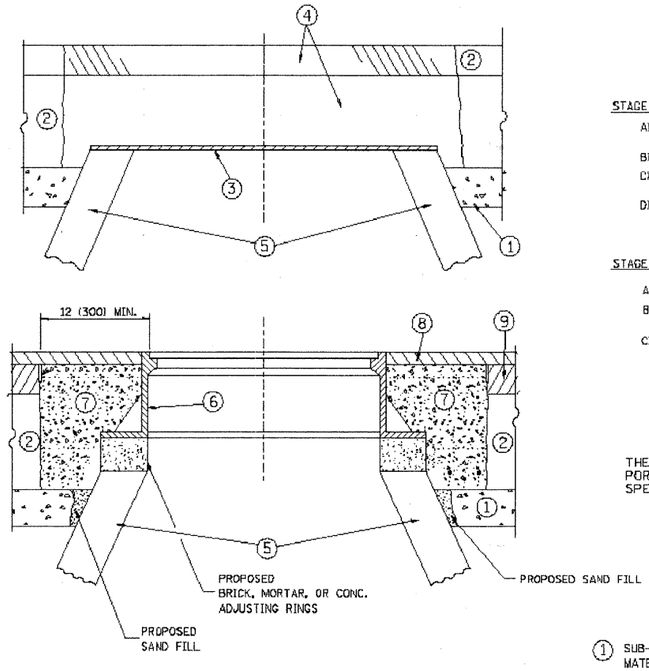
DRAWN BY

CHECKED BY

BD32

E.H.E. PROJECT NO. 125-07-13601

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	15
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO. 63008				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.

B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.

C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.

B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.

C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

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

LEGEND

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

NOTES:

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

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

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

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

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: VERT. NONE HORIZ.

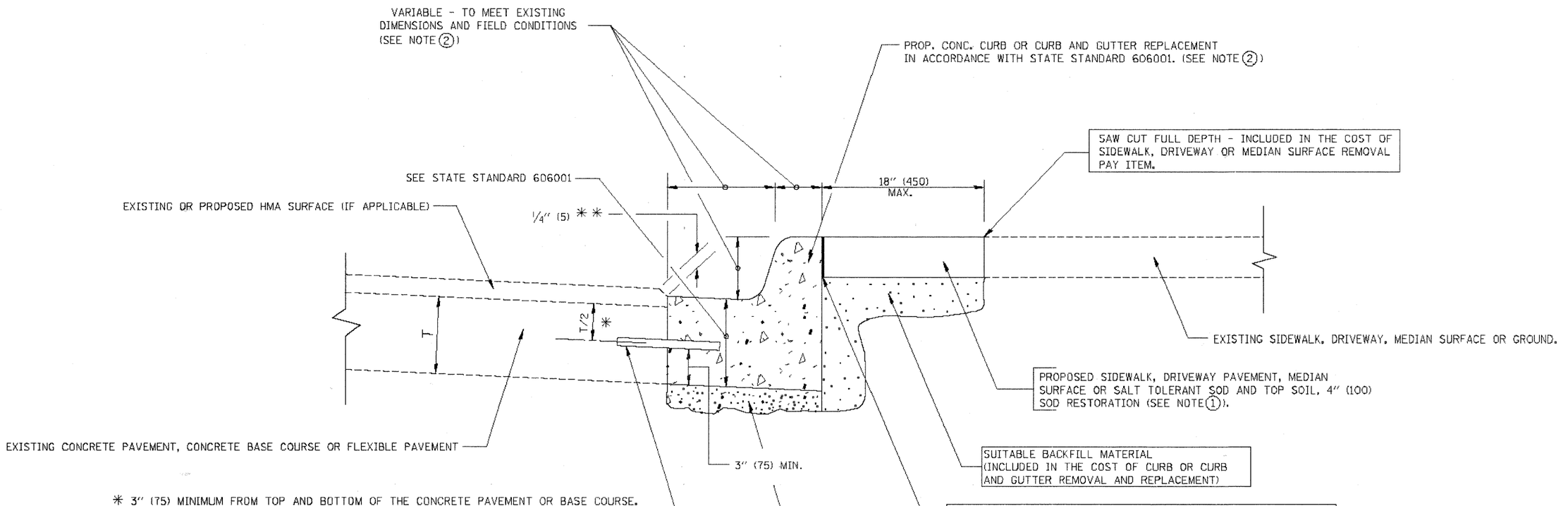
DRAWN BY

CHECKED BY

BD08

E.H.E. PROJECT NO. 125-07-13601

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	16
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO.	63008			



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

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

NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

(2) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

(3) FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

(4) LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

(5) THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

(6) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

(7) THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

BASIS OF PAYMENT:

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: VERT. NONE HORIZ.

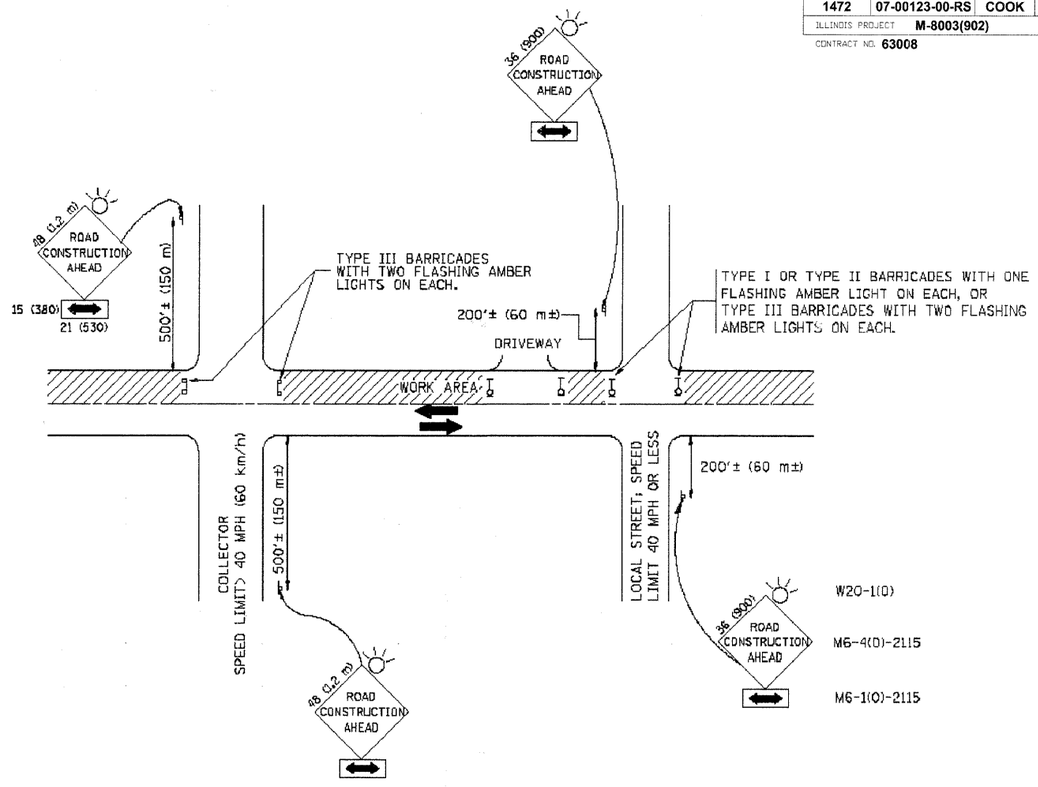
DRAWN BY

CHECKED BY

BD24

E.H.E. PROJECT NO. 125-07-13601

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	17
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO. 63008				



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

NOTES:

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

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

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

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

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE

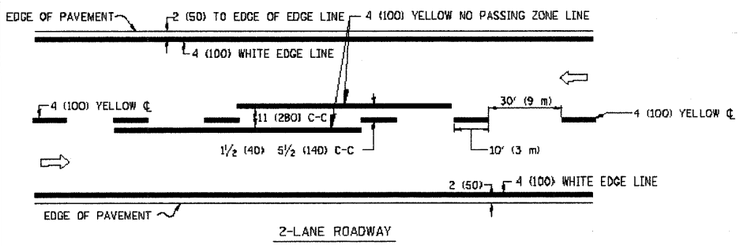
DRAWN BY

CHECKED BY

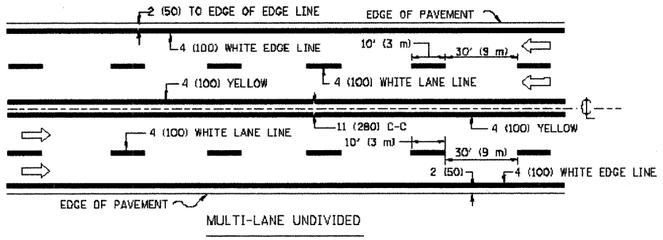
TC10

E.H.E. PROJECT NO. 125-07-13601

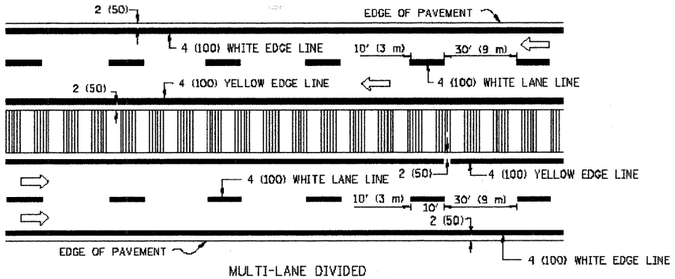
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	18
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO. 63008				



2-LANE ROADWAY



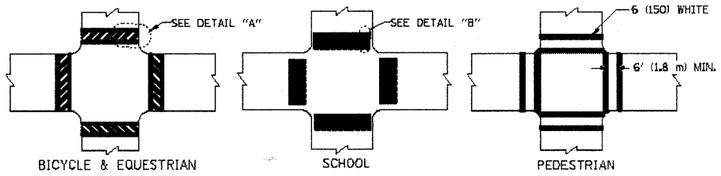
MULTI-LANE UNDIVIDED

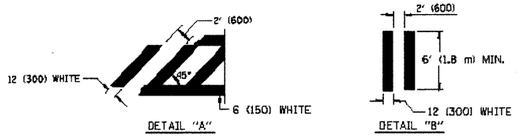


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

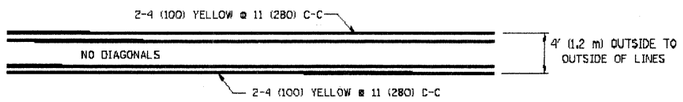
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

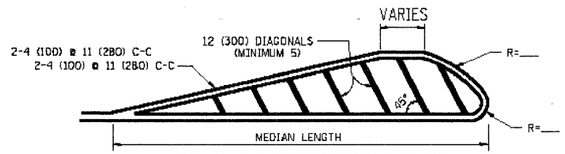




TYPICAL CROSSWALK MARKING



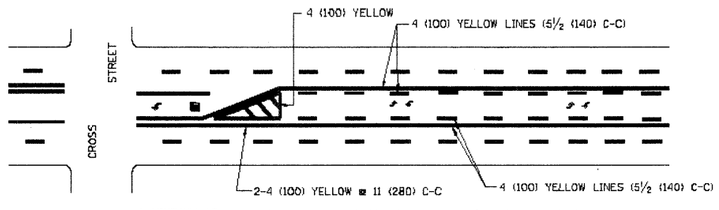
4' (1.2 m) WIDE MEDIANS ONLY



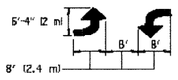
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

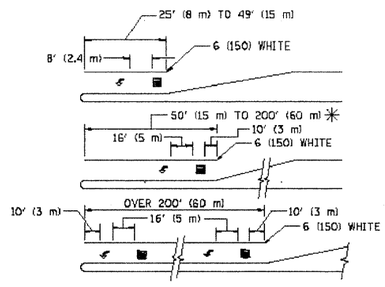


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

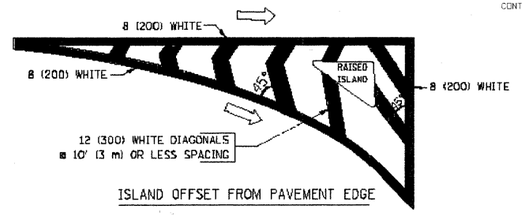


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m^2) AREA = 20.8 SQ. FT. (1.9 m^2)

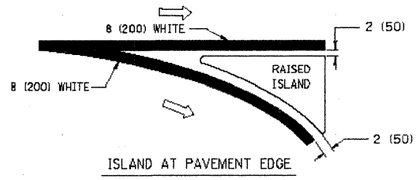
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 ⧈ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ⧈ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ⧈ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⧈ 6 (150) 12 (300) @ 45° 12 (300) ⧈ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⧈ 4 (100) WITH 12 (300) DIAGONALS ⧈ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE

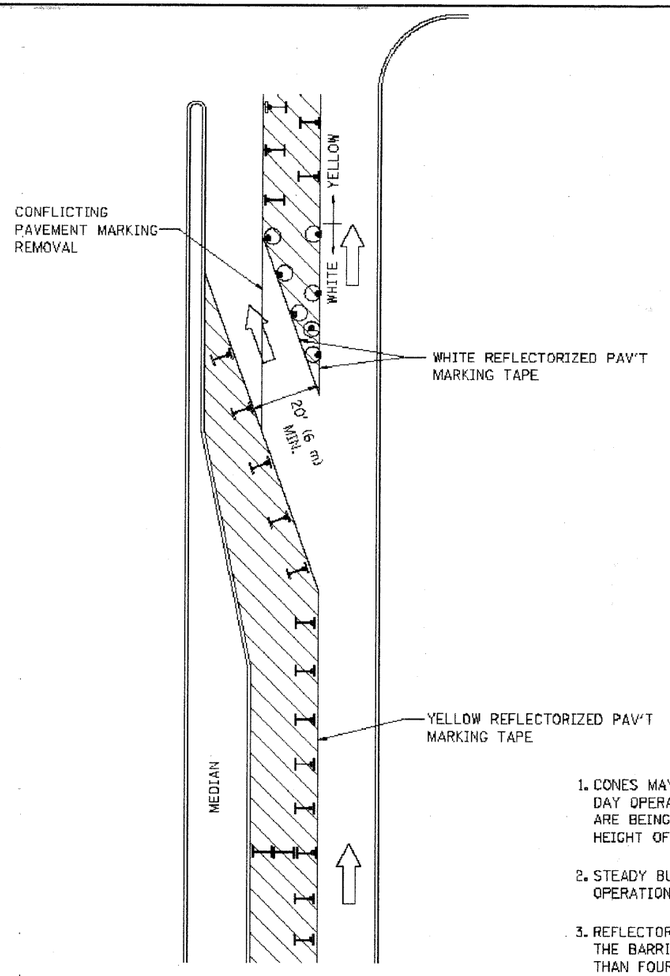
DRAWN BY CADD

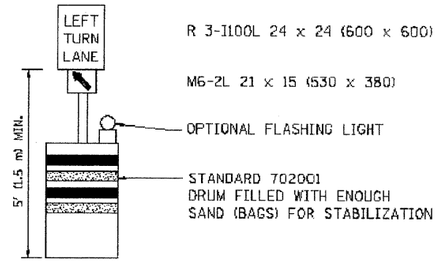
CHECKED BY

TC13

E.H.E. PROJECT NO. 125-07-13601

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	19
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO.	63008			





GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

WORK AREA

LANE OPEN TO TRAFFIC

TYPE I OR II BARRICADE WITH STEADY BURN LIGHT

DRUM WITH STEADY BURN LIGHT

DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL

TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/99
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

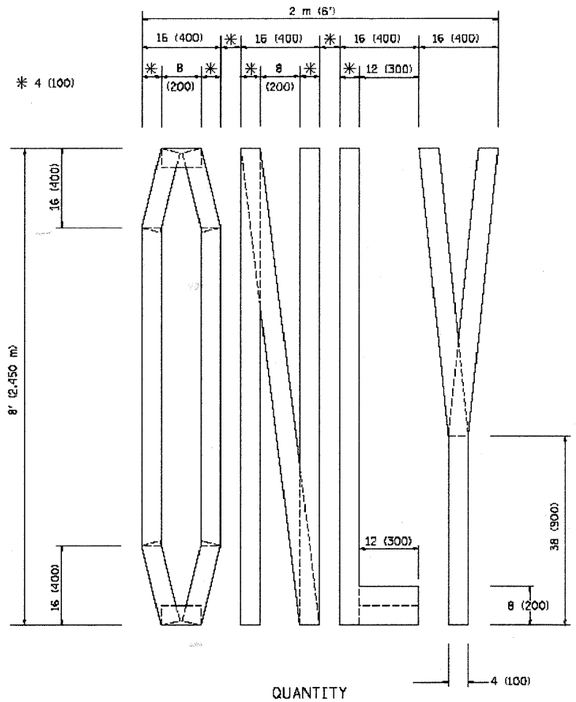
SCALE: NONE

DRAWN BY

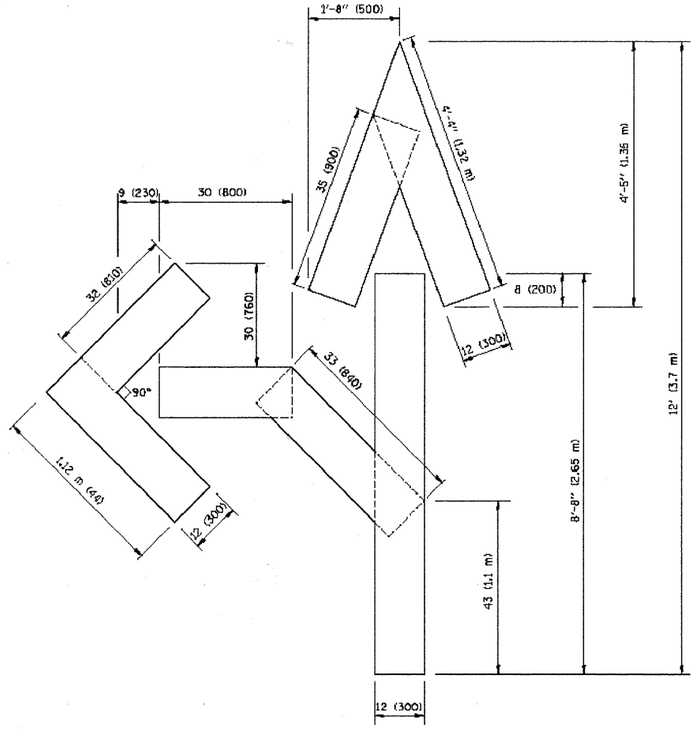
CHECKED BY LHA

E.H.E. PROJECT NO. 125-07-13601

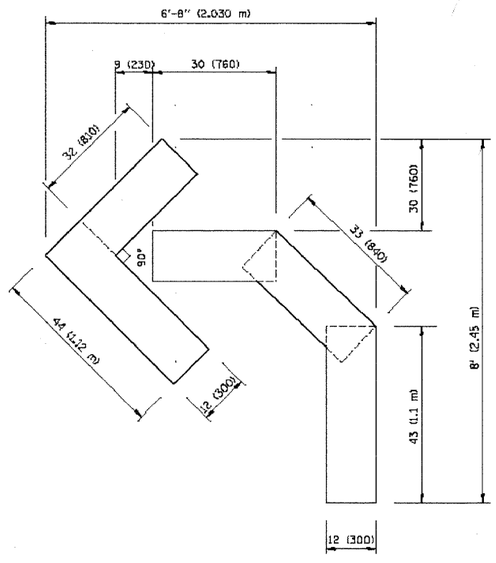
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	07-00123-00-RS	COOK	20	20
ILLINOIS PROJECT	M-8003(902)			
CONTRACT NO.	63008			



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



QUANTITY
4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.39 sq. m)

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

SCALE: NONE

DRAWN BY CADD

CHECKED BY

E.H.E. PROJECT NO. 125-07-13601