

CONTRACT NO. 60B89

F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	(537&537 X) T	COOK	8	1
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

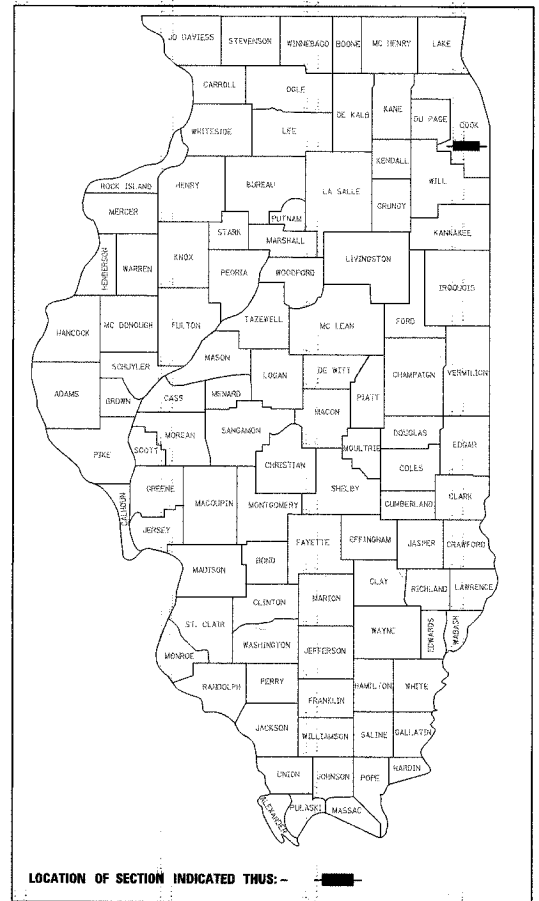
D-91-337-06

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
HIGHWAY**

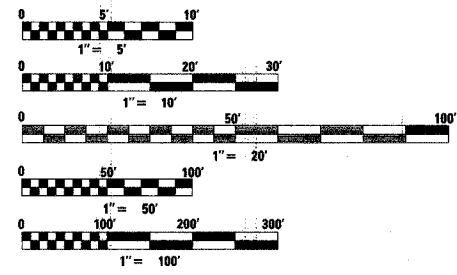
FAP 351 (US 6 /159TH STREET)
AT METRA ENTRANCE W/O IL 50
SECTION: (537 & 537 X) T
SEWER REPAIR
COOK COUNTY
C-91-017-07

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA
EXISTING ADT
33,900 (2005)
SPEED LIMIT 40 MPH

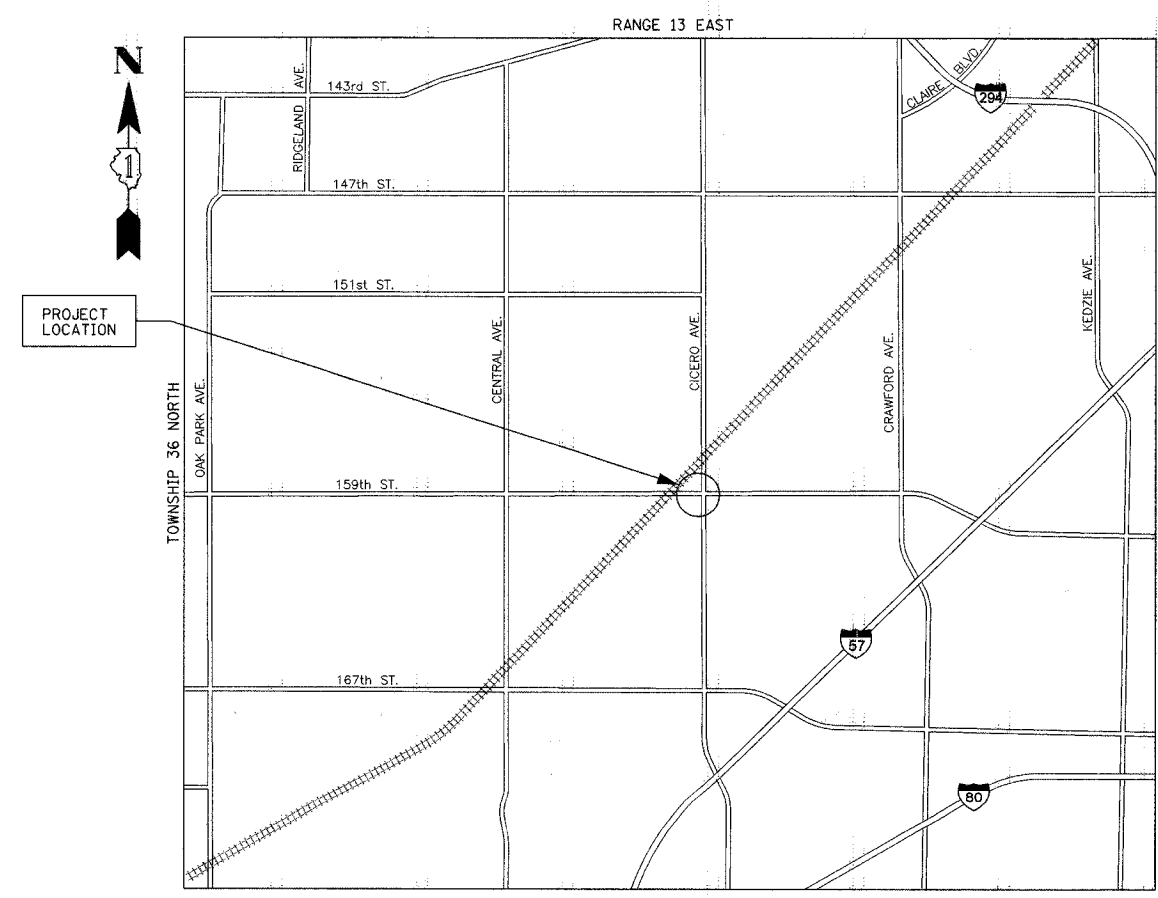


PROJECT LOCATED IN THE CITY OF OAK FOREST



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

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



BREMEN TOWNSHIP
NOT TO SCALE

GROSS AND NET LENGTH OF PROJECT: 20 FT (0 MI)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Sept. 18, 2006

Diane O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

October 13, 2006
Mike New
ENGINEER OF DESIGN AND ENVIRONMENT

October 13, 2006
Milton R. See, P.E.
DIRECTOR, DIVISION OF HIGHWAYS

PETER M. JOHNSON
062-047647
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
Expires 11-30-07

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
ENGINEERS & SCIENTISTS
8501 W. Higgins Road, Suite 280
Chicago, Illinois 60631
(773) 399-0112

DISTRICT ONE PLAN PREPARATION ENGINEER: KEN ENG (847) 705-4247

CONTRACT NO. 60B89

CONTRACT NO. 60889

F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	(537&537 X) T	COOK	8	2
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

INDEX OF SHEETS

- 1 TITLE SHEET
- 2 INDEX OF DRAWINGS, HIGHWAY STANDARDS, GENERAL NOTES AND BITUMINOUS MIXTURE REQUIREMENTS
- 3 SUMMARY OF QUANTITIES
- 4 PLAN
- 5 MAINTENANCE OF TRAFFIC
- 6 DETAILS
- 7 DRIVEWAY DETAILS
- 8 TEMPORARY INFORMATION SIGNING

STATE STANDARDS

STD. NO.	DESCRIPTION
000001	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
602416	MANHOLE TYPE A 2.4 m (8') DIAMETER
602701-01	CAST IRON STEPS
604001-02	FRAME AND LIDS, TYPE 1
701701-04	URBAN LANE CLOSURE MULTILANE INTERSECTION
702001-00	TRAFFIC CONTROL DEVICES

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION), (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, CABLE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
3. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
4. ALL ELEVATIONS SHOWN ON THE PLANS ARE REFERENCED TO U.S.G.S. MEAN SEA LEVEL DATUM.
5. THE COST OF MAKING ANY SEWER CONNECTIONS TO AN EXISTING DRAINAGE STRUCTURE OR PIPE SHALL BE INCLUDED IN THE COST OF THE NEW CONFLICT MANHOLE.
6. THE CONTRACTOR SHALL CONTACT METRA AT LEAST 2 WEEKS PRIOR TO THE CLOSURE OF THE DRIVEWAY
7. UPON COMPLETION OF THE MANHOLE AND SERVICE INSTALLATION, THE SANITARY SEWER SERVICE WILL BE CLEANED, COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO THE CONTRACT.
8. SITE BORINGS INDICATE THAT SOME SITE SOILS HAVE MOISTURE CONTENTS OF 25% TO 27%. THEREFORE, ADDITIONAL SHORING OR TRENCH WALL STABILITY MAY BE NECESSARY DURING CONSTRUCTION.
9. RESTORATION OF THE SEWER WORK AREA SHALL BE INCIDENTAL TO THE MANHOLE AND SANITARY SEWER PAY ITEMS AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ROADWAY SURFACES SUCH AS MEDIAN AND CURB SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD IN ACCORDANCE TO ARTICLE 252 OF THE STANDARD SPECIFICATION.

BITUMINOUS MIXTURE REQUIREMENTS					
OPERATION	ITEM	AC TYPE	VOIDS	MAX RAP %	MIX TYPE
BITUMINOUS DRIVEWAY PAVEMENT	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	PG 64-22	4% @ 50 GYR	15%	SAME AS ITEM
	BITUMINOUS BASE COURSE, SUPERPAVE, 6" (PE) OR 8" (CE)	PG 58-22	2% @ 50 GYR	50%	BITUMINOUS BASE COURSE, SUPERPAVE

* IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURES IS 112 lbs/sqyd/in.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP 351 (US 6 / 159TH STREET) AT METRA ENTRANCE W/O IL 50 SECTION: (537 & 537 X) T SEWER REPAIR
NAME	DATE	
		INDEX OF DRAWINGS, HIGHWAY STANDARDS, GENERAL NOTES AND BITUMINOUS MIXTURE REQUIREMENTS DRAWN BY: WS DATE: 9/14/06 CHECKED BY: PJ



GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
CHICAGO, ILLINOIS


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DATE: 14-Sep-06 14:37

CONTRACT NO. 60889

F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	(537&537 X) T	COOK	8	3
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

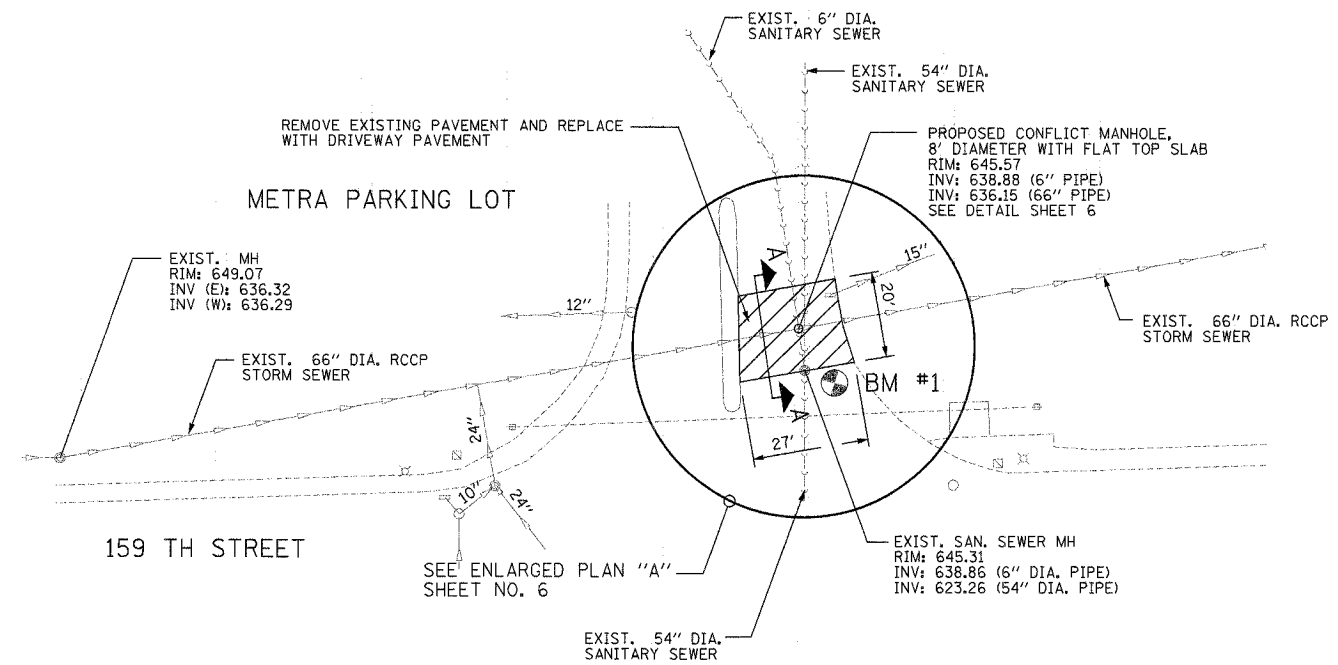
CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	URBAN 100% STATE
20800150	TRENCH BACKFILL	CU YD	4	4
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	55	55
44000100	PAVEMENT REMOVAL	SQ YD	55	55
55102200	STORM SEWER REMOVAL 66"	FOOT	5	5
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	26	26
X0324078	CONFLICT MANHOLES	EACH	1	1
X3550500	BITUMINOUS BASE COURSE SUPERPAVE 8"	SQ YD	55	55
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	7	7
Z0056800	SANITARY SEWER 6"	FOOT	15	15
67100100	MOBILIZATION	L SUM	1	1

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP 351 (US 6 / 159TH STREET) AT METRA ENTRANCE W/O IL 50 SECTION: (537 & 537 X) T SEWER REPAIR
NAME	DATE	
DATE: 9/14/06		DRAWN BY: WS CHECKED BY: PJ
		GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC. CHICAGO, ILLINOIS

REV.

CONTRACT NO. 60B89

F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	(537&537 X) T	COOK	8	4
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		




BM #1
RIM OF EXISTING SANITARY SEWER MANHOLE, ELEV. 645.31

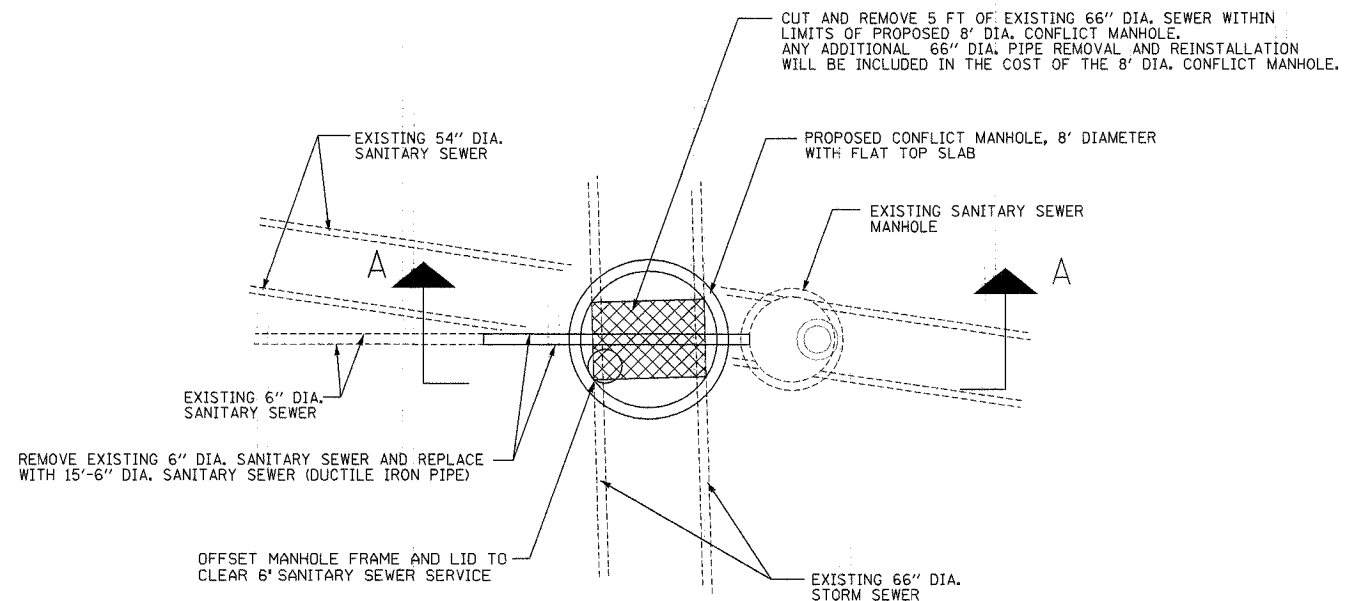
PLAN

SCALE: 1"=20'

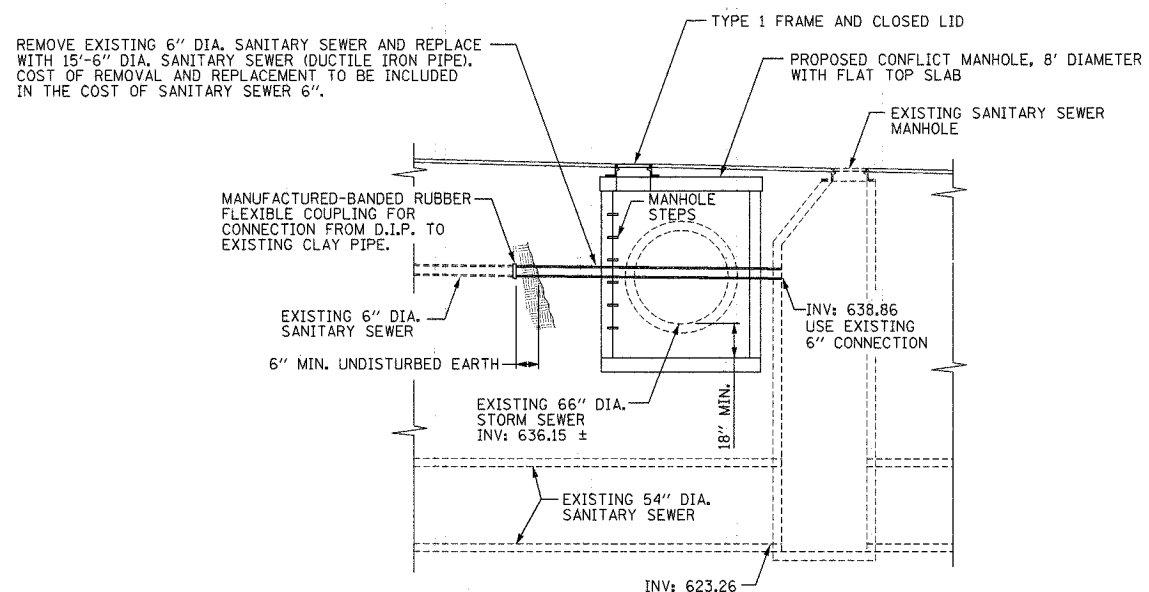
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP 351 (US 6 / 159TH STREET) AT METRA ENTRANCE W/O IL 50 SECTION: (537 & 537 X) T SEWER REPAIR
NAME	DATE	
		PLAN SCALE: 1"=20' DATE: 9/14/06 DRAWN BY: WS CHECKED BY: PJ

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CHICAGO, ILLINOIS

F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	(537&537 X) T	COOK	8	6
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ENLARGED PLAN "A"
SCALE: 1"=5'



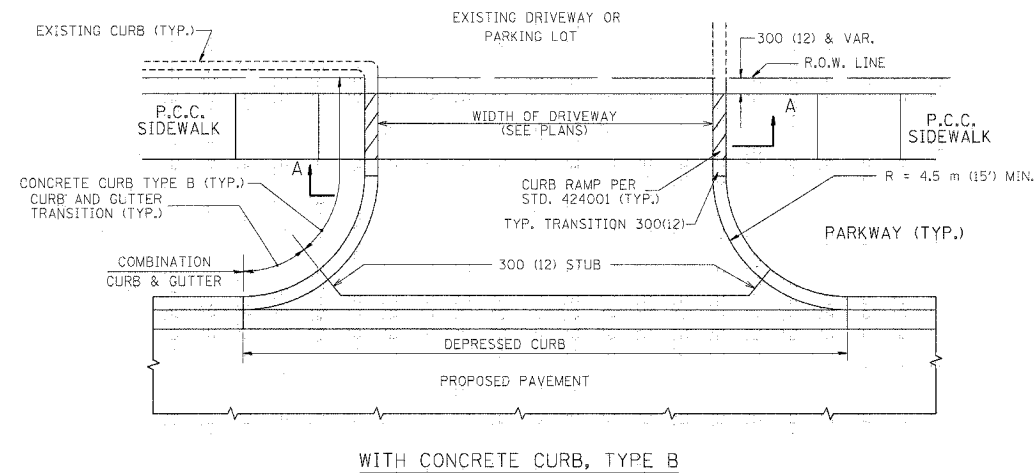
SECTION A-A
SCALE: 1"=5'

- NOTES:
1. REFER TO HIGHWAY STANDARDS 602416, 602701 AND 604001 FOR ADDITIONAL DETAILS.
 2. THE CONTRACT UNIT PRICE FOR CONFLICT MANHOLES SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE AGGREGATE BASE, MANHOLE BASE AND BARREL SECTIONS, ADJUSTING RINGS, TYPE 1 FRAME AND LID, AND CAST IRON STEPS.
 3. THE CONTRACT UNIT PRICE FOR SANITARY SEWER 6" WILL INCLUDE THE COST FOR REMOVING AND RECONNECTING EXISTING SEWERS INCLUDING FLEXIBLE CONNECTORS.

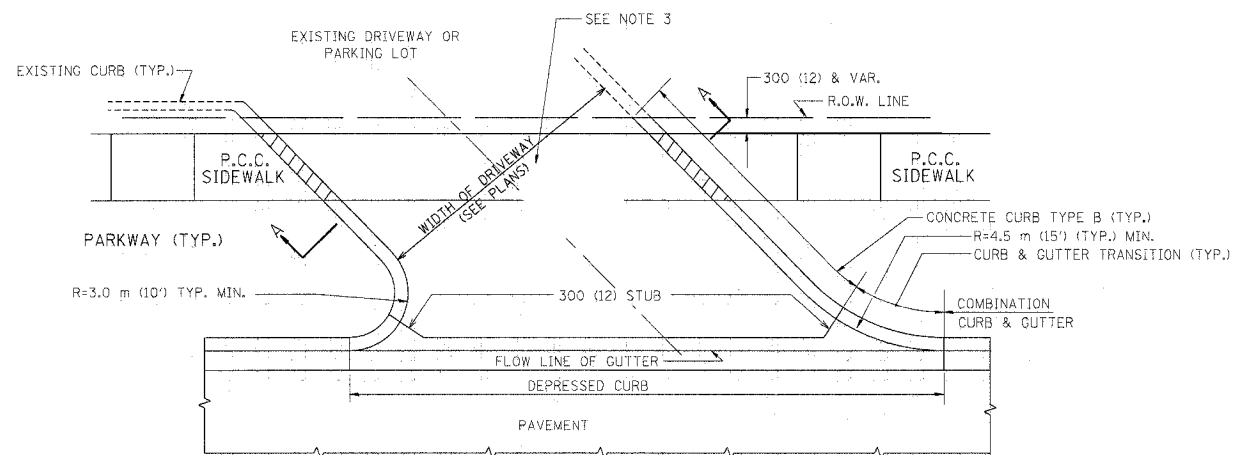
GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
CHICAGO, ILLINOIS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP 351 (US 6 / 159TH STREET) AT METRA ENTRANCE W/O IL 50 SECTION: (537 & 537 X) T SEWER REPAIR DETAILS
NAME	DATE	
		SCALE: 1"=5'
		DATE: 9/14/06
		DRAWN BY: WS
		CHECKED BY: PJ

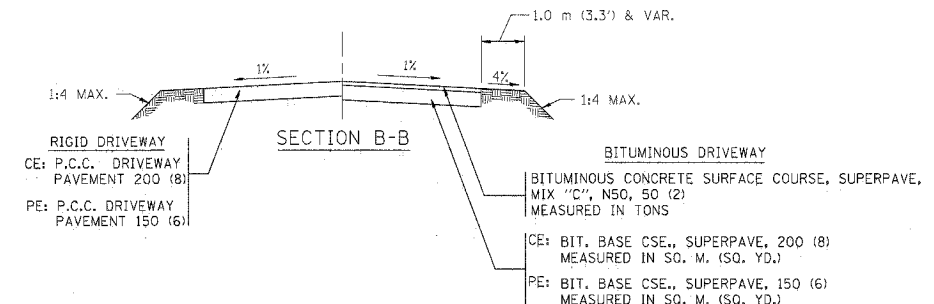
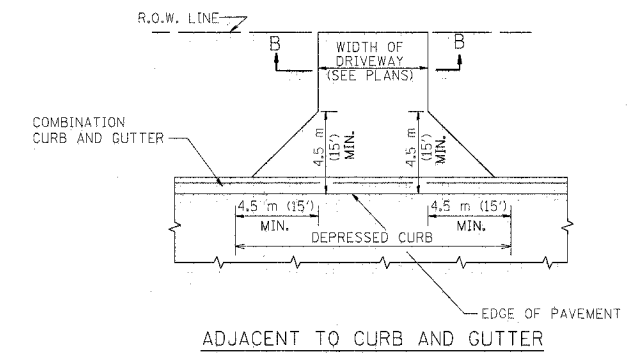
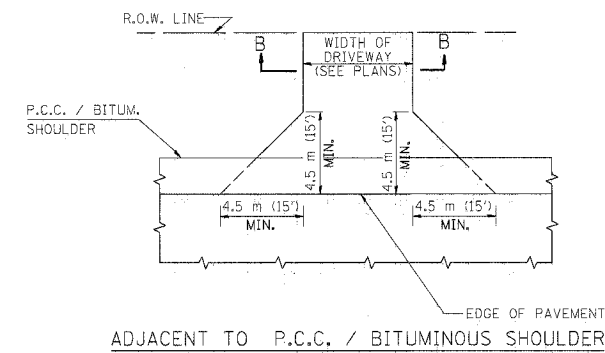
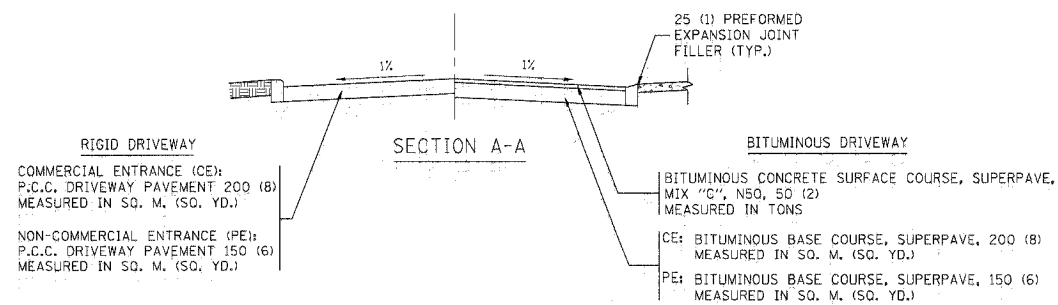
F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
391 (517) (337X)T		COOK	8	7
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



GENERAL NOTES:

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

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

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

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

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

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

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

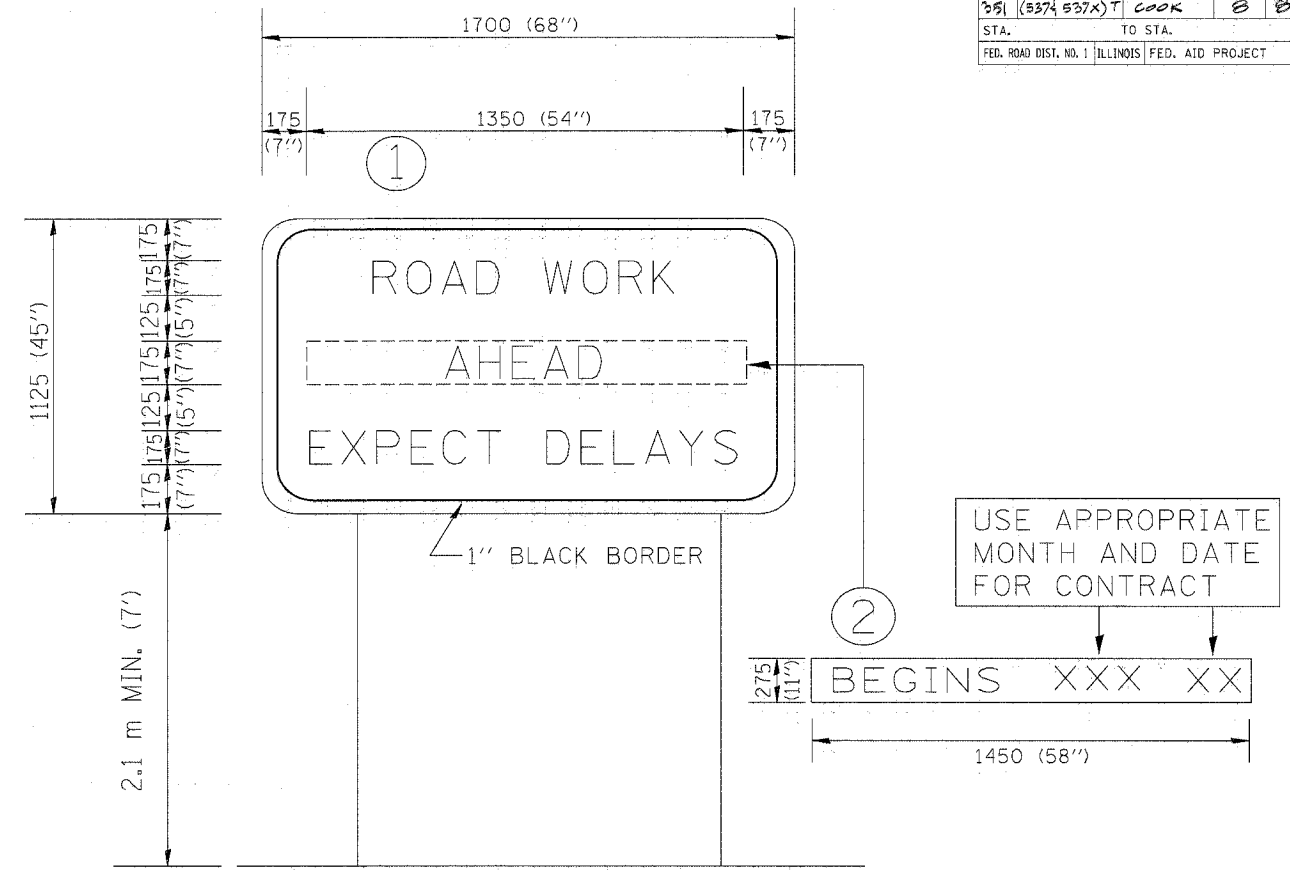
ILLINOIS DEPARTMENT OF TRANSPORTATION

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

REVISIONS	
NAME	DATE
P. LOFLEUR	04-15-03
R. SHAH	11-04-95
J. POLLASTRINI	08-12-96
J. POLLASTRINI	12-14-96
A. ABBAS	03-21-97
T. HOLTZ	04-08-97
M. GOMEZ	04-06-01

SCALE: NONE
DATE PLOTTED: 04/17/2003
DRAWN BY: SG
CHECKED BY: JFP

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351 (5374 537X)T	COOK		8	8
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



NOTES:

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

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	2-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY INFORMATION SIGNING

SCALE: DATE 10/18/2002
DRAWN BY: BUR. OF DESIGN
CHECKED BY: