

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	1
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT CMM-7003 (750)		

CONTRACT NO. 83727 Total Sheets 116+11=126

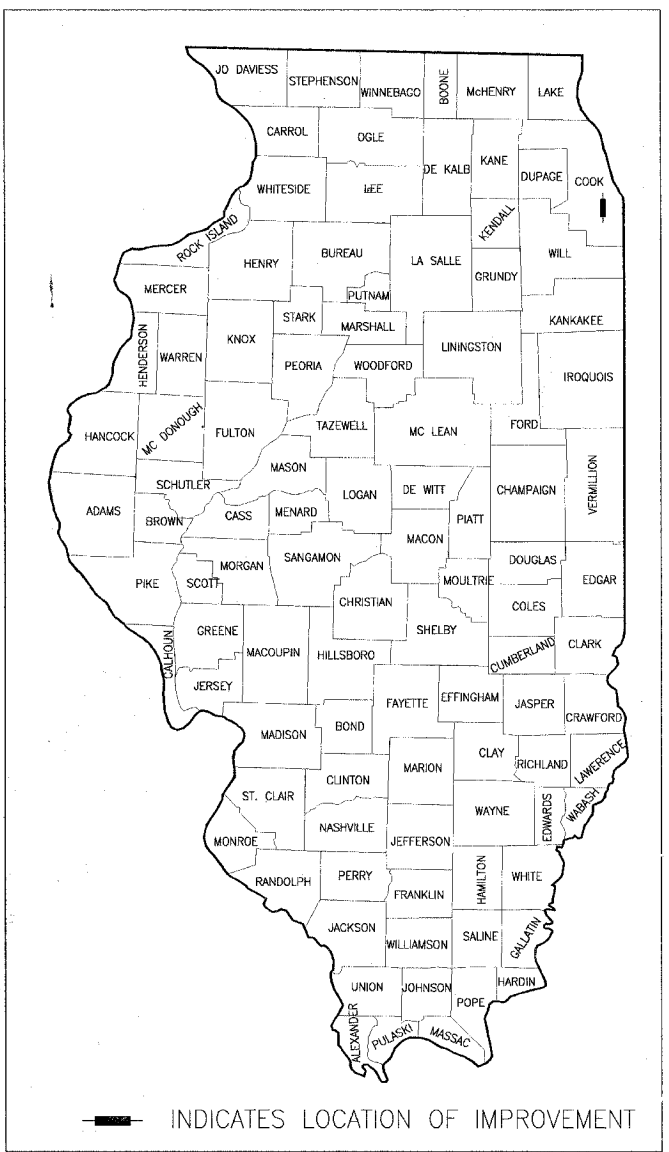
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED F.A.U. ROUTE 2774 OAK PARK AVENUE FROM 159TH ST (U.S.6)(F.A.P. 0351) TO 147TH ST (F.A.U. 1602)

PROJECT NO.: CMM-7003 (750)
SECTION NO: 99-00073-00-WR
JOB NO.: C-91-180-99
WIDENING, RESURFACING, AND TRAFFIC SIGNALS
CITY OF OAK FOREST, ILLINOIS
COOK COUNTY



Nathan J. Paul 04-28-06
 LICENSE EXPIRES 11-30-07
 PROJECT MANAGER

BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2007
 DATE: 4-28-06

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED April 28 2006 Sray Joller
LOCAL AGENCY REPRESENTATIVE

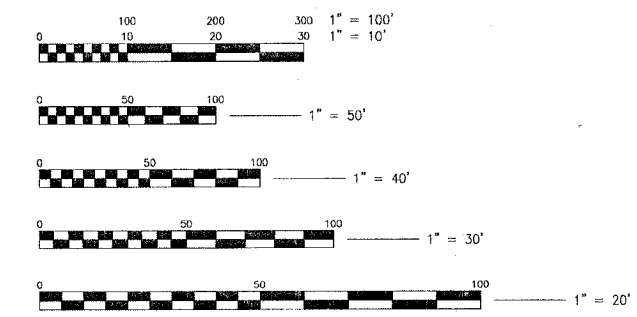
PASSED May 2 2006 Cheryl Holt
BUREAU OF LOCAL ROADS AND STREETS

SIGNED May 2 2006 Diane M. O'Keefe/Cof
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

STANDARD NO. STANDARD
SEE SHEET NO. 2 FOR STANDARDS

DESIGN DESIGNATION
OAK PARK AVENUE: 20,440 (25) COLLECTOR 2.71 (B 20)

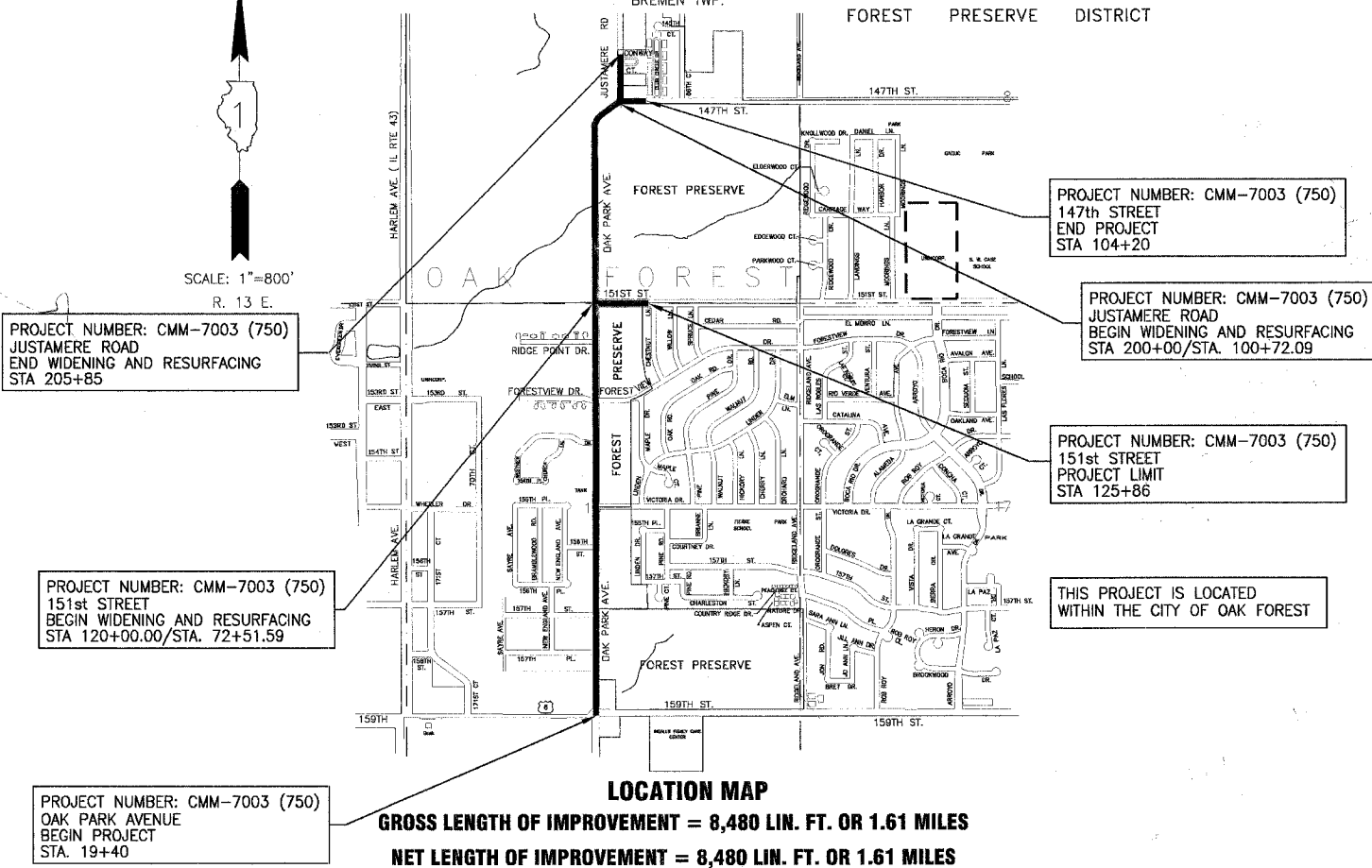
TRAFFIC DATA
OAK PARK AVENUE
POSTED AND DESIGN SPEED = 40 MPH
2000 ADT = 17,631
151ST STREET
POSTED AND DESIGN SPEED = 35 MPH
2000 ADT = 2,092



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

CONTRACT NO. 83727

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WITH THE FOLLOWING:
COUNTY = COOK
CITY-TOWNSHIP = OAK FOREST - BREMEN
SEC. & 4SEC. NO. = N1/2 OF SEC 19; SEC 18; SEC 7
48 HOURS BEFORE YOU DIG
EXCLUDING SAT., SUN. & HOLIDAYS



Baxter & Woodman

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 815.459.1260 -262.763.7834 815.787.3111 708.478.2090 847.223.5088 815.489.1551 815.609.7425
(OFFICE WHICH PREPARED PLANS)

COUNTY COOK SECTION NUMBER: 99-00073-00-WR

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

JESSICA MILLER 847-705-4487 SCHAUMBURG, IL
 FEDERAL AID DESIGN ENGINEER
 I.D.O.T.

CONTRACT NO. 83727

LEGEND

EXISTING	PROPOSED	DESCRIPTION
SA	SA	SANITARY SEWER OR SERVICE
ST	ST	STORM SEWER OR SERVICE
	UD	PIPE UNDERDRAIN
W	W	WATER MAIN
WS		WATER SERVICE
FM		FORCE MAIN
⊙	⊙	MANHOLE
○	●	CATCH BASIN
□	■	INLET
▽	▶	DRYWELL
△	◀	FLARED END SECTION
⌒	⌒	METAL END SECTION
⊕	⊕	FIRE HYDRANT
⊙ WV	⊕ WV	WATER VALVE W/ BOX AND COVER
□	■	WATER VALVE VAULT
⊙ BB	○ BB	WATER SERVICE BOX OR CURB STOP
⊙ WM		WATER METER
○ CO		CLEAN OUT
○ SV		SEPTIC VENT
⊙	⊙	TO BE ABANDONED AND/OR REMOVED
G	G	GAS LINE
⊙ GV	⊕ GV	GAS VALVE W/ BOX AND COVER
□ GVW	□ GM	GAS VALVE VAULT
⊕ GM	○ CR	GAS METER
○ CR	⊕ GAS	GAS RISER
⊕ GAS		GAS SERVICE VALVE
T	T	TELEPHONE CABLE
TD	TD	TELEPHONE DUCT
TEL	TEL	TELEPHONE VAULT
TR	TR	TELEPHONE RISER
TV	TV	CABLE TELEVISION (BURIED)
CTV	CTV	CABLE T.V. RISER
CTV	CTV	CABLE T.V. VAULT
E	E	UNDERGROUND ELECTRICAL
OH	OH	OVERHEAD
EM	EM	ELECTRIC METER
ET	ET	PAD MOUNTED TRANSFORMER
EV	EV	ELECTRIC VAULT
JB	JB	JUNCTION BOX
UP	UP	UTILITY POLE w/ GUY ANCHOR
UL	UL	UTILITY POLE w/ LIGHT
LS	LS	LIGHT STANDARD
MB	MB	MAIL BOX
SS	SS	STREET SIGN
R	R	RAILROAD SIGNAL
TC	TC	TRAFFIC SIGNAL CONTROLLER
TS	TS	TRAFFIC SIGNAL POST W/ SIGNAL HEAD
HC	HC	HANDHOLE
T12'	T12'	DECIDUOUS TREE (W/ TRUNK INCH DIA.)
T16'	T16'	CONIFEROUS TREE (W/ HEIGHT)
B	B	DECIDUOUS BUSH
C	C	CONIFEROUS BUSH
DEF	DEF	DEFINING EDGE OF BRUSH OR FORESTED AREA

(HATCHED SHALL BE REMOVED)

(HATCHED SHALL BE REMOVED)

LEGEND

EXISTING	PROPOSED	DESCRIPTION
X	X	FENCE
G	G	GUARD RAIL
C	C	CULVERT (CMP UNLESS NOTED)
P	P	PIPE CULVERT
FL	FL	PIPE CULVERT W/FLARED END SECTION
D	D	DITCH
S	S	SUMMIT
EL	EL	EDGE OF LAKE, RIVER, ETC.
M	M	MARSH
TS	TS	TOP OR TOE OF SLOPE
742	742	CONTOUR
ROW	ROW	EASEMENT
X-ROW	X-ROW	RIGHT OF WAY (ROW)
ROW	ROW	FENCED RIGHT OF WAY (ROW)
P.L.	P.L.	RIGHT OF WAY MONUMENT
X P.L.	X P.L.	UNFENCED PROPERTY LINE
IP	IP	FENCED PROPERTY LINE
IP	IP	IRON PIPE (PROPERTY CORNER)
		CORPORATE LIMITS
		BASE LINE OR SURVEY LINE
		CENTER LINE
625.35 P.C.C. (625.9)		PROPOSED EL./ (EXISTING EL.) (POINT, GUTTER, TOP OF CURB)
▲ (#)		SOIL BORING AND NUMBER
B.M.		BENCH MARK
CP		SURVEY CONTROL POINT

STANDARD NO.

- 280001-02
- 424001-04
- 442101-05
- 442201-01
- 482011-01
- 542301
- 542311
- 542401
- 602001
- 602011
- 602301-01
- 602401-01
- 602406-02
- 602601
- 602701-01
- 604001-02
- 604036-01
- 604091-01
- 606001-02
- 606006
- 630001-06
- 630101-06
- 630201-03
- 630301-03
- 635006-02
- 635011-01
- 642001
- 701006-02
- 701011-01
- 701101-01
- 701201-02
- 701301-02
- 701326-02
- 701406-04
- 701501-03
- 701502-01
- 701701-04
- 701801-03
- 702001-06
- 720001
- 720006
- 720011
- 720016-01
- 729001
- 780001-01
- 805001
- 814001
- 814006
- 857001
- 877001-02
- 877006-02
- 878001-04
- 880001
- 880006
- 886001

STANDARD

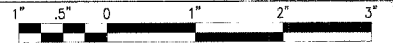
- TEMPORARY EROSION CONTROL SYSTEMS
- CURB RAMPS FOR SIDEWALKS
- CLASS B PATCHES
- CLASS C & D PATCHES
- BITUMINOUS SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- PRECAST REINFORCED CONCRETE FLARED END SECTIONS
- GRATING FOR CONCRETE FLARED END SECTIONS
- METAL END SECTION FOR PIPE CULVERTS
- CATCH BASIN, TYPE A
- CATCH BASIN, TYPE C
- INLET, TYPE A
- MANHOLE, TYPE A
- MANHOLE, TYPE A, 6' DIA.
- PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- MANHOLE STEPS
- FRAME AND LIDS, TYPE 1
- GRATE, TYPE B
- FRAME AND GRATE, TYPE 24
- CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- OUTLET FOR CONCRETE CURB AND GUTTER, TYPE B-15.60 (B-6.24)
- STEEL PLATE BEAM GUARDRAIL
- GUARDRAIL MOUNTED ON EXISTING CULVERTS
- PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- REFLECTOR AND TERMINAL MARKER PLACEMENT
- REFLECTOR MARKER AND MOUNTING DETAILS
- SHOULDER RUMBLE STRIPS
- OFF-ROAD OPR. 2L, 2W, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
- OFF-ROAD MOVING OPERATIONS 2L, 2W DAY ONLY
- OFF-ROAD OPERATIONS, MULTILANE, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
- LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
- LANE CLOSURE 2L, 2W, PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
- LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- URBAN LANE CLOSURE, 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE (2 SHEETS)
- URBAN LANE CLOSURE, MULTILANE INTERSECTION
- LANE CLOSURE, MULTILANE 1 W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- TRAFFIC CONTROL DEVICES (3 SHEETS)
- SIGN PANEL MOUNTING DETAILS
- SIGN PANEL ERECTION DETAILS
- METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- MAST ARM MOUNTED STREET NAME SIGNS
- APPLICATIONS OF TYPES OF A & B METAL POSTS
- TYPICAL PAVEMENT MARKINGS
- ELECTRICAL SERVICE INSTALLATION DETAILS
- CONCRETE HANDHOLES
- DOUBLE HANDHOLES
- STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES (2 SHEETS)
- STEEL MAST ARM ASSEMBLY AND POLE
- STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
- CONCRETE FOUNDATION DETAILS
- SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
- TRAFFIC SIGNAL MOUNTING DETAILS
- DETECTOR LOOP INSTALLATIONS

ABBREVIATIONS

CONC	PORTLAND CEMENT CONCRETE	R	STRUCTURE TO BE RECONSTRUCTED
BIT	BITUMINOUS PAVEMENT	A	STRUCTURE TO BE ADJUSTED
GR	GRAVEL	▲	CENTRAL ANGLE
CMP	CORRUGATED METAL PIPE	D=	DEGREE OF CURVE
FH	FIRE HYDRANT	T=	TANGENT LENGTH
CI	CAST IRON	L=	CURVE LENGTH
DI	DUCTILE IRON	R=	RADIUS OF CURVE
F-F	FACE-TO-FACE	E=	EXTERNAL DISTANCE
E-E	EDGE-TO-EDGE	SE=	SUPERELEVATION (FT. PER FT. OF WIDTH)
B-B	BACK-TO-BACK	X=	EXTERNAL DISTANCE OF VERTICAL CURVE
BM	BENCH MARK	PC	POINT OF CURVATURE
INV EL	INVERT ELEVATION	PI	POINT OF INTERSECTION
CL EL	CENTERLINE ELEVATION	PT	POINT OF TANGENCY
P	POINT	POT	POINT ON TANGENCY
G	GUTTER	PCC	POINT OF COMPOUND CURVATURE
C	CURB	PRC	POINT OF REVERSE CURVATURE
BC	BACK OF CURB	VC	VERTICAL CURVE
EOP	EDGE OF PAVEMENT	N&W	NAIL AND WASHER
PL	PROPERTY LINE	TCE	TEMPORARY CONSTRUCTION EASEMENT
ROW	RIGHT OF WAY		
FL	FLOW LINE		
TF	TOP OF FRAME		
TC	TOP OF CURB OR CONCRETE		

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
* REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			



BAXTER & WOODMAN
 Consulting Engineers

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Rockford, Illinois	815.489.1951
Plainfield, Illinois	815.602.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

**LEGEND, HIGHWAY STANDARDS
 AND ABBREVIATIONS**

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
UKB	020146
CHECKED BY	SHEET NO.
NJP	2 OF 116
DATE	
1-20-05	

GENERAL NOTES

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	3
STA.	TO STA.		FED AID PROJECT	
FED. ROAD DIST. NO. 1	ILLINOIS		CMM-7003 (750)	

CONTRACT NO. 83727

- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNER, AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED IN THE STANDARD SPECIFICATIONS. UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL USE CAUTION WHERE THERE ARE POTENTIAL CONFLICTS. PRIOR TO THE CONSTRUCTION OF THE STORM SEWER, THE CONTRACTOR SHALL NOTIFY THE CITY TO LOCATE EXISTING WATER MAIN, WATER SERVICES, SANITARY SEWER, AND SANITARY SEWER SERVICES WHERE THE PROPOSED STORM SEWER WILL CROSS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER OR REPLACED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- STORM SEWER SHALL BE BACKFILLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ARTICLE 550.07, METHOD 1 ONLY.
- STORM SEWER STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE. OTHERWISE IT IS TO THE CENTER OF THE STRUCTURE.
- RIM ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION ON THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
- ALL AGGREGATE USED ON THIS PROJECT SHALL BE CRUSHED MATERIAL.
- ALL SAW CUTTING SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
- SIDEWALK RAMPS FOR ACCESS FOR THE DISABLED SHALL BE PROVIDED IN ACCORDANCE WITH HIGHWAY STANDARD 424001, THE BDE SPECIAL PROVISION 80113 AND THE DETAILS IN THE PLANS AT THE LOCATIONS WHERE PROPOSED CROSSWALKS ABUT THE STREET RETURNS OR AS DIRECTED BY THE ENGINEER. THE ENGINEER SHALL DETERMINE THE TYPE OF SIDEWALK RAMP TO BE PROVIDED AND THE LOCATION.
- THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO STRUCTURES AT ALL TIMES.
- IF ANY EXISTING STORM SEWER LATERALS ARE FOUND DURING CONSTRUCTION AND ARE NOT IDENTIFIED ON THE PLANS, THEY SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM. SAID CONNECTION SHALL BE CONSIDERED INCIDENTAL TO THE STORM SEWER CONSTRUCTION.
- ANY DAMAGE DONE TO THE WATER MAIN, WATER SERVICES, SANITARY SEWER, OR SANITARY SEWER SERVICES NOT CONSIDERED IN CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE.
- ALL TRENCHES SHALL BE CLASS D PATCHES PLACED ON TOP OF THE TRENCH BACKFILL THROUGH EXISTING PAVEMENT AREAS TO REMAIN OPEN TO TRAFFIC. CLASS D PATCHES WILL NOT BE REQUIRED ON TRENCHES THROUGH RESIDENTIAL DRIVEWAYS.
- ALL CONSTRUCTION PERSONNEL WILL BE REQUIRED TO WEAR FLUORESCENT VEST AT ALL TIMES WHILE ON THE CONSTRUCTION SITE. FLAGGERS ARE REQUIRED TO WEAR VESTS AS DESCRIBED IN THE SPECIAL PROVISIONS. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.
- DURING CONSTRUCTION STAGING OPERATIONS, THE OAK FOREST POLICE AND FIRE DEPARTMENTS, POST OFFICE, AND SCHOOL DISTRICTS SHALL BE NOTIFIED IN WRITING 48 HOURS PRIOR TO STREET CLOSURES. EMERGENCY ACCESS SHALL BE ALLOWED AT ALL TIMES.
- THE CONTRACTOR SHALL REPLACE ALL STREET SIGNS REMOVED DURING CONSTRUCTION AS NEAR AS POSSIBLE TO THEIR ORIGINAL LOCATION AS PER ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS OR AS DETERMINED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ALL POSTS, RAILROAD TIES, FENCING, LANDSCAPING ITEMS, AND SPECIAL CONCRETE OR BRICK MAILBOX SUPPORTS IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED AS PER ARTICLE 201.01(a) OF THE STANDARD SPECIFICATIONS OR DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION AND SHALL BE INCLUDED AS PART OF EARTH EXCAVATION.
- CONNECTION OF PROPOSED STORM SEWER INTO EXISTING STORM SEWER OR EXISTING STORM SEWER STRUCTURES SHALL BE INCIDENTAL.
- CONNECTION OF EXISTING STORM SEWER INTO PROPOSED STORM SEWER OR PROPOSED STORM SEWER STRUCTURES SHALL BE INCIDENTAL.
- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE II BARRICADE USED-ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
- ALL MANHOLES AND HANDHOLES SHALL HAVE THE WORDS "STORM", "SANITARY", "WATER", OR "LIGHTING", AS APPLICABLE STAMPED ONTO SELF SEALING LIDS FOR TYPE 1 FRAMES AS INCIDENTAL TO THE MANHOLE OR HANDHOLE.
- ANY MAILBOXES IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH U.S.P.S. STANDARDS AND ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS AS INCIDENTAL TO CONSTRUCTION. MAIL MAIL SERVICE SHALL BE MAINTAINED AT ALL TIMES.
- POROUS GRANULAR EMBANKMENT SUBGRADE: FINAL QUANTITY DETERMINATION SHALL BE BASED ON CROSS-SECTIONS TAKEN AT THE TIME OF CONSTRUCTION.
- BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE: ANY ANTI-STRIPPING ADDITIVE REQUIRED SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SURFACE COURSE.

- PORTLAND CEMENT CONCRETE SIDEWALK: EXCAVATION FOR THE PROPOSED SIDEWALK WILL BE PAID FOR AS EARTH EXCAVATION IN AREAS WHERE THERE IS NO EXISTING SIDEWALK. WHERE SIDEWALK IS TO BE REMOVED AND REPLACED ANY ADDITIONAL EXCAVATION TO ESTABLISH THE PROPOSED SUBGRADE ELEVATION FOR THE PROPOSED SIDEWALK WILL BE INCLUDED AS INCIDENTAL TO SIDEWALK REMOVAL.
- CONCRETE DRIVEWAY PAVEMENT REMOVAL: THIS WORK SHALL ALSO INCLUDE REMOVING AND DISPOSING OF ANY ADDITIONAL MATERIAL REQUIRED TO ESTABLISH THE PROPOSED SUBGRADE ELEVATION AS DETERMINED BY THE ENGINEER.
- PIPE CULVERT REMOVAL: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE CULVERT REMOVAL, REGARDLESS OF SIZE.
- WHERE THE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT TO REMAIN IN PLACE (BEGIN, END AND LIMITS OF CONSTRUCTION), THE EXISTING PAVEMENT SHALL BE SAWCUT TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND EXISTING SURFACE.
- THE CURB SHALL BE TAPERED TO THE HEIGHT OF THE GUTTER IN THE SPECIFIED LENGTH WHERE EVER THE CURB AND GUTTER TERMINATES, WITH AN EXPANSION JOINT PLACED AT THE START OF THE TAPER.
- THE PROPOSED COMBINATION CONCRETE CURB AND GUTTER SHALL BE DEPRESSED ACROSS DRIVEWAYS, AND IN ANY OTHER AREA AS SPECIFIED BY THE ENGINEER.
- CONNECTION OF PROPOSED WATER MAIN ITEMS INTO EXISTING WATER MAIN SHALL BE CONSIDERED INCIDENTAL TO THE ITEM BEING INSTALLED.
- EXISTING BITUMINOUS CONCRETE PAVEMENT REMOVAL HAS BEEN INCLUDED IN EARTH EXCAVATION QUANTITY FOR CUT AREAS.
- TWO WEEKS PRIOR TO PLACING PERMANENT MARKINGS, CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN AT 708-597-9800.
- ONE-LANE TRAFFIC CONTROL OPERATIONS (STD. 701326 AND 701501) WILL BE RESTRICTED TO BE PERFORMED BETWEEN 9:00 A.M. TO 3:00 P.M. OR AS DETERMINED BY THE ENGINEER.
- MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS: ALL NECESSARY OPERATIONS AND LABOR OR CLEANING OF THE CRACKS AND JOINTS TO RECEIVE THE MIXTURE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE MATERIAL.
- THE CONTRACTOR SHALL PROVIDE WARRANTIES OR GUARANTEES PROVIDING FOR SATISFACTORY IN-SERVICE OPERATION OF THE MECHANICAL AND ELECTRICAL EQUIPMENT AND RELATED COMPONENTS AS PER I.D.O.T. STANDARDS.
- ALL AREAS DAMAGED OR DISTURBED BY THE INSTALLATION OF SIGNAL POLES, FOUNDATIONS, UNDERGROUND CABLES, CONDUIT, AND CONTROLLER CABINETS SHALL HAVE TOPSOIL REPLACED TO A DEPTH OF 4" FERTILIZED, AND HYDRO SEEDED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE "STANDARD SPECIFICATIONS" THE WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING, CROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS AS APPLICABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED IN RELATION TO THE TOP OF POLE FOUNDATIONS AND OTHER CONCRETE STRUCTURES WITHIN THE PARKWAY.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- ALL CONDUITS UNDER ROADWAYS AND DRIVEWAYS SHALL BE INSTALLED IN TRENCH BEFORE PAVEMENT IS PLACED. CONDUIT LENGTHS SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL DISTANCE REQUIREMENTS IN THE FIELD.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE MARKERS AND SHALL TAG ALL WIRING ACCORDINGLY.
- THE CONTRACTOR WILL BE REIMBURSED BY THIS CONTRACT TO THE EXACT AMOUNT OF MONEY AS BILLED BY COM-ED FOR THEIR SERVICES, AND NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY INCIDENTAL MATERIALS AND LABOR REQUIRED TO FULFILL THE REQUIREMENTS AS SHOWN ON THE PLANS AND SPECIFIED HEREIN. SEE SECTION 109.05 "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".
- ALL ELECTRICAL DEVICES AND MATERIALS SHALL BE U/L LISTED WHERE APPLICABLE.
- CONTRACTOR SHALL INSTALL 25-FOOT LINEAL SECTIONS OF LONGITUDINAL UNDERDRAINS AT THE OUTSIDE EDGE OF PAVEMENT AT THE LOW POINTS OF THE ROADWAY PROFILE, AT THE LOW POINTS OF ANY UNDERCUTS THAT ARE REPLACED WITH PGES, AND AS DIRECTED BY THE ENGINEER. UNDERDRAINS SHOULD BE INSTALLED AT A DEPTH OF 30-INCHES BELOW THE TOP OF PROPOSED PAVEMENT IN ACCORDANCE WITH THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- CONTRACTOR SHALL INSTALL AN APPROVED GEOTEXTILE/GROUND STABILIZATION FABRIC BE PLACED AT THE BASE OF ANY UNDERCUT AND AS DIRECTED BY THE ENGINEER PRIOR TO BACKFILLING WITH PGES.
- ALL PARTIES INVOLVED WITH THE CONSTRUCTION OF THE PROJECT SHALL BE INFORMED THAT ANY SNAKE ENCOUNTERED MUST NOT BE KILLED OR HARMED. THE KIRTLAND'S SNAKE IS LEGALLY PROTECTED UNDER THE ILLINOIS ENDANGERED SPECIES ACT, AND A VIOLATION OF THIS ACT IS A CLASS A MISDEMEANOR WHICH CARRIES UP TO \$1000. FINE AND UP TO 364 DAYS IN JAIL. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY SNAKE ENCOUNTER.

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

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 Crystal Lake, Illinois 815.458.1269
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 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.809.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

GENERAL NOTES

DESIGNED BY	NJP	SCALE	NONE
DRAWN BY	LKB	PROJECT NO.	020146
CHECKED BY	NJP	SHEET NO.	3 OF 116
DATE	1-20-05		

SUMMARY OF QUANTITIES

SPCLTY/IDOT CODE	ITEM	UNIT	TOTAL QUANTITY	ROADWAY I000-2A	SIGNAL Y031-1F	SIDEWALK SFTY-1B
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	90	90		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	193	193		
20101000	TEMPORARY FENCE	FOOT	910	910		
20101100	TREE TRUNK PROTECTION	EACH	6	6		
20101200	TREE ROOT PRUNING	EACH	30	30		
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	10	10		
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	20	20		
20200100	EARTH EXCAVATION	CU YD	4509	4509		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	8826	8826		
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	250	250		
20800250	TRENCH BACKFILL, SPECIAL	CU YD	1785	1785		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	300	300		
** 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	26942	26942		
21300010	EXPLORATION TRENCH, SPECIAL	FOOT	10	10		
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	623	623		
** 25000210	SEEDING, CLASS 2A	ACRE	3.30	3.30		
** 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	433	433		
** 25000500	PHOSPOROUS FERTILIZER NUTRIENT	POUND	433	433		
** 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	433	433		
25100630	EROSION CONTROL BLANKET	SQ YD	15972	15972		
25200110	SODDING, SALT TOLERANT	SQ YD	10970	10970		
25200200	SUPPLEMENTAL WATERING	UNIT	329	329		
28000400	PERIMETER EROSION BARRIER	FOOT	5260	5260		
28000500	INLET AND PIPE PROTECTION	EACH	54	54		
28000510	INLET FILTERS	EACH	53	53		
28100107	STONE RIP RAP, CLASS A4	SQ YD	105	105		
28200200	FILTER FABRIC	SQ YD	120	120		
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	455	455		
40500100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	7975	7975		
40600300	AGGREGATE (PRIME COAT)	TON	160	160		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	20	20		
40600895	CONSTRUCTING TEST STRIP	EACH	3	3		
40602000	BITUMINOUS REPLACEMENT OVER PATCHES, SUPERPAVE	TON	69	69		
40800040	INCIDENTAL BITUMINOUS SURFACING	TON	272	272		
42300710	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6", SPECIAL	SQ YD	12	12		
42300800	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 8", SPECIAL	SQ YD	228	228		
42400430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	19012			19012
42400440	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL	SQ FT	1110			1110
42400800	DETECTABLE WARNINGS	SQ FT	256			256
44000030	BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	22061	22061		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	299	299		
44000300	CURB REMOVAL	FOOT	232	232		
44000500	COMBINATION CONCRETE CURB AND GUTTER REMOVAL	FOOT	3014	3014		
44000600	SIDEWALK REMOVAL	SQ FT	353			353
44200934	CLASS B PATCHES, TYPE II, 8 INCH	SQ YD	183	183		
44200942	CLASS B PATCHES, TYPE III, 8 INCH	SQ YD	174	174		
44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD	741	741		
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	112	112		
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	328	328		
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	374	374		
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	19302	19302		
48202400	BITUMINOUS SHOULDERS, SUPERPAVE - 6"	SQ YD	1536	1536		
50104400	CONCRETE HEADWALL REMOVAL	EACH	13	13		
50105220	PIPE CULVERT REMOVAL	FOOT	1614	1614		
542C0217	PIPE CULVERTS, CLASS C, TYPE 1 12"	FOOT	176	176		

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	4
STA.	TO STA.	FED. ROAD DIST. NO. 1		
		ILLINOIS	FED. AID PROJECT CMM-700.3 (750)	
CONTRACT NO. 83727				

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			



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 DeKalb, Illinois 815.787.2111
 Crystal Lake, Illinois 815.459.1200
 Rockford, Illinois 815.409.1651
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

SUMMARY OF QUANTITIES

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
LIK	020146
CHECKED BY	SHEET NO.
NJP	4 OF 116
DATE	1-20-05

SUMMARY OF QUANTITIES, CONTINUED

SPCLTY	IDOT CODE	ITEM	UNIT	TOTAL QUANTITY	ROADWAY I000-2A	SIGNAL Y031-1F	SIDEWALK SFFY-1B
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1		
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4	4		
	54214719	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 24"	EACH	1	1		
	54214725	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 30"	EACH	2	2		
	54247100	GRATING FOR CONCRETE FLARED END SECTION 15"	EACH	4	4		
	54248130	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 24"	EACH	1	1		
	54248150	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 30"	EACH	2	2		
	550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	2090	2090		
	550A2330	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	328	328		
	550A2340	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	FOOT	7	7		
	550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	939	939		
	550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	476	476		
	550A2540	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 18"	FOOT	441	441		
	550A2550	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 21"	FOOT	285	285		
	550A2560	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 24"	FOOT	291	291		
	55034300	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 30, RISE 19	FOOT	128	128		
	55034500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 38, RISE 24	FOOT	476	476		
	55035400	STORM SEWERS, TYPE 2, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 30, RISE 19	FOOT	227	227		
	55100500	STORM SEWER REMOVAL 12"	FOOT	182	182		
	55100700	STORM SEWER REMOVAL 15"	FOOT	160	160		
	55100900	STORM SEWER REMOVAL 18"	FOOT	133	133		
	56109210	WATER VALVES TO BE ADJUSTED	EACH	1	1		
	56400100	FIRE HYDRANTS TO BE MOVED	EACH	12	12		
	60101705	PIPE DRAINS 6" (SPECIAL)	FOOT	70	70		
	60101805	PIPE DRAINS 8" (SPECIAL)	FOOT	24	24		
	60107600	PIPE UNDERDRAINS 4"	FOOT	700	700		
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1		
	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	5	5		
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	22	22		
	60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1		
	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	3	3		
	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	23	23		
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	15	15		
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5		
	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4		
	60224466	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	8	8		
	60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	11	11		
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	6	6		
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	3	3		
	60255500	MANHOLES TO BE ADJUSTED	EACH	12	12		
	60257600	MANHOLES TO BE ADJUSTED WITH FRAME AND GRATE (SPECIAL)	EACH	4	4		
	60258000	MANHOLES TO BE RECONSTRUCTED (SPECIAL)	EACH	4	4		
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	9	9		
	60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	2	2		
	60500060	REMOVING INLETS	EACH	5	5		
	60600605	CONCRETE CURB, TYPE B - 6"	FOOT	160	160		
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	883	883		
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	11877	11877		
**	63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	91	91		
**	63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	34	34		
**	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	4	4		
	63200310	GUARDRAIL REMOVAL	FOOT	606	606		
	64200105	SHOULDER RUMBLE STRIP	FOOT	6720	6720		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	14	14		

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	4A
STA.	TO STA.	ILLINOIS	FED AID PROJECT	
FED. ROAD DIST. NO. 1			CMM-7003 (750)	
CONTRACT NO. B3727				

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			


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 Graylake, Illinois 847.223.5088
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

DESIGNED BY	NJP	SCALE	NONE
DRAWN BY	UKB	PROJECT NO.	020146
CHECKED BY		SHEET NO.	
NJP DATE	1-20-05	4A OF 116	

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES, CONTINUED

SPCLTY	IDOT CODE	ITEM	UNIT	TOTAL QUANTITY	ROADWAY I000-2A	SIGNAL Y031-1F	SIDEWALK SFT-Y-1B
	67100100	MOBILIZATION	L SUM	1	1		
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
	70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1		
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
	70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1		
	70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	3	3		
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	10311	10311		
	70300200	TEMPORARY PAVEMENT MARKING	FOOT	41244	41244		
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3437	3437		
**	72000100	SIGN PANEL - TYPE 1	SQ FT	300	200	100	
**	72900100	METAL POST - TYPE A	FOOT	632	632		
**	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	858	858		
**	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	33625	33625		
**	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2654	2654		
**	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1296	1296		
**	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	326	326		
**	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	561	561		
**	78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8		
**	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	3437	3437		
**	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	208	208		
**	81000300	CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	15	15		
**	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	5631		5631	
**	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	287		287	
**	81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	48		48	
**	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	30		30	
**	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	581		581	
**	81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	71		71	
**	81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	231		231	
**	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	520		520	
**	81400100	HANDHOLE	EACH	18		18	
**	81400200	HEAVY DUTY HANDHOLE	EACH	11		11	
**	81400300	DOUBLE HANDHOLE	EACH	3		3	
**	81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	6002		6002	
**	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	20	20		
**	84200700	LIGHTING FOUNDATION REMOVAL	EACH	2	2		
**	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2		2	
**	85000200	MAINTAINANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2		2	
**	85700200	FULL - ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2		2	
**	85700300	FULL - ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1		1	
**	86000100	MASTER CONTROLLER	EACH	1		1	
**	86400100	TRANSCEIVER - FIBER OPTIC	EACH	3		3	
**	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	813		813	
**	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	2681		2681	
**	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	4540		4540	
**	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	2522		2522	
**	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4677		4677	
**	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	621		621	
**	87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	1		1	
**	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	5		5	
**	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	4		4	
**	87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2		2	

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	5
STA.	TO STA.		FED AID PROJECT	
FED. ROAD DIST. NO. 1	ILLINOIS		CMM-700.3 (750)	
CONTRACT NO. 83727				

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			


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 Graylake, Illinois 815.259.5089
 Rockford, Illinois 815.449.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
UKB	020146
CHECKED BY	SHEET NO.
NJP	5 OF 116
DATE	
1-20-05	

SUMMARY OF QUANTITIES, CONTINUED

SPCLTY	IDOT CODE	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1000-2A	SIGNAL Y031-1F	SIDEWALK SFTY-1B
**	87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2		2	
**	87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	4		4	
**	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1	
**	87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1		1	
**	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	40		40	
**	87800200	CONCRETE FOUNDATION, TYPE D	FOOT	12		12	
**	87800400	CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	150		150	
**	87800415	CONCRETE FOUNDATION, TYPE E 36" DIAMETER	FOOT	15		15	
**	87900200	DRILL EXISTING HANDHOLE	EACH	3		3	
**	88000170	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2		2	
**	88000290	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4		4	
**	88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	28		28	
**	88500100	INDUCTIVE LOOP DETECTOR	EACH	21		21	
**	88600100	DETECTOR LOOP, TYPE 1	FOOT	2320		2320	
**	88700200	LIGHT DETECTOR	EACH	7		7	
**	88700300	LIGHT DETECTOR AMPLIFIER	EACH	3		3	
**	88800100	PEDESTRIAN PUSH BUTTON	EACH	7		7	
**	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2		2	
**	89502200	MODIFY EXISTING CONTROLLER	EACH	1		1	
**	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4819		4819	
**	89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	3023		3023	
**	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		2	
**	89502380	REMOVE EXISTING HANDHOLE	EACH	11		11	
**	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9	
**	A2004620	TREE, GLEDITSIA TRIACANTHOS INERMIS (THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	1	1		
**	A2008020	TREE, TILIA CORDATA (LITTLE LEAF LINDEN) 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
**	K0036120	MULCH PLACEMENT 4"	SQ YD	65	65		
**	XX001877	SUMP PUMP LINE CONNECTION	EACH	3	3		
**	XX002202	VEHICLE CONTROL BOLLARDS	EACH	3	3		
**	XX002881	TRAFFIC SIGNAL SYSTEM OPTIMIZATION	L SUM	1	1		
**	XX003183	POST MOUNTED FLASHING BEACON INSTALLATION	EACH	1	1		
**	XX003817	GRATING FOR CONCRETE FLARED END SECTION 12"	EACH	1	1		
**	XX005011	BOX CULVERT EXTENSION WITH HEADWALL	L SUM	1	1		
**	X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	1	1		
**	XX006372	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE 4"	FOOT	30	30		
**	XX006373	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE 8"	FOOT	45	45		
**	X0321905	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE 12"	FOOT	67	67		
**	X0321906	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE 15"	FOOT	164	164		
**	X0321020	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (COLD MILLING) VARIABLE DEPTH	SQ YD	3503	3503		
**	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	100	100		
**	X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4297		4297	
**	X0323868	DRAINAGE RESTRICTOR	EACH	1	1		
**	X0545000	BOX CULVERT REMOVAL	FOOT	71	71		
**	X2800100	TEMPORARY DITCH CHECKS, ROLLED EXCELSIOR	EACH	12	12		
**	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	14	14		
**	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	15	15		
**	X4023000	TEMPORARY ACCESS (ROAD)	EACH	10	10		
**	X4066616	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	TON	5718	5718		
**	X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	386	386		
**	X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	3305	3305		
**	X4066770	LEVELING BINDER (MACHINE METHOD), SUPERPAVE, N70	TON	1097	1097		

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	5A
STA.	TO STA.	ILLINOIS	FED AID PROJECT	
FED. ROAD DIST. NO. 1			CMM-7003 (750)	

CONTRACT NO. 83727

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

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 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 815.223.5098
 Rockford, Illinois 815.399.1551
 Plainfield, Illinois 815.600.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

SUMMARY OF QUANTITIES

DESIGNED BY	NJP	SCALE	NONE
DRAWN BY	UKB	PROJECT NO.	020146
CHECKED BY	NJP	SHEET NO.	5A OF 116
DATE	1-20-05		

SUMMARY OF QUANTITIES, CONTINUED

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	6
STA.	TO STA.	FED AID PROJECT CMM-7003 (750)		
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 83727	

SPLCLTY	IDOT CODE	ITEM	UNIT	TOTAL QUANTITY	ROADWAY I000-2A	SIGNAL Y031-1F	SIDEWALK SFTY-1B
**	X8050015	SERVICE INSTALLATION, POLE MOUNT	EACH	4		4	
**	X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM 12F, SM 12F	FOOT	4297		4297	
**	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1704		1704	
**	X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	972		972	
**	X8800020	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	17		17	
**	X8800035	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6		6	
**	X8800040	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3		3	
**	X8800045	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4		4	
**	X8800060	SIGNAL HEAD, L.E.D., 2-FACE, 3 SECTION, BRACKET MOUNTED	EACH	2		2	
**	X8805280	SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1		1	
**	X8810610	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	4		4	
**	X8810620	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	3		3	
	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	14767	14767		
	Z0019600	DUST CONTROL WATERING	UNIT	50	50		
	Z0064800	SELECTIVE CLEARING	UNIT	65	65		
Δ	Z0076600	TRAINEES	HOUR	1500	1500		
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
	Z0022800	FENCE REMOVAL	FOOT	360	360		
	XX006571	REMOVE AND REPLACE BOLLARDS	EACH	3	3		
**	XX006572	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 26 FT.	EACH	1		1	
	XX006573	CATCH BASINS, TYPE A, 6' DIAMETER, TYPE 8 GRATE	EACH	1	1		
	XX006574	CATCH BASINS, TYPE A, 6' DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2	2		

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			



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 Rockford, Illinois 815.459.1551
 Plainfield, Illinois 815.609.7425
 Consulting Engineers

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

SUMMARY OF QUANTITIES

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
LIK	020146
CHECKED BY	SHEET NO.
NJP	6 OF 116
DATE	1-20-05

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	7
STA.	TO STA.		FED. ROAD DIST. NO. 1	
	ILLINOIS		ILLINOIS	
			FED. AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				

PAVEMENT SCHEDULE

STATION	LENGTH FT	PROPOSED PAVEMENT WIDTH	EXISTING PAVEMENT WIDTH	AVERAGE PROPOSED WIDTH FT	AVERAGE EXISTING WIDTH FT	AVERAGE WIDENING WIDTH FT	BIT BINDER AREA SY	AGGREGATE SUBGRADE AREA SY	LEVELING BINDER AREA SY	BIT SURFACE AREA SY	BIT BINDER TONS	BIT LEVELING TONS	BIT SURFACE TONS
OAK PARK AVENUE													
19+40	60						115.63	184.43	455.48	571.11	67.99		47.97
20+00	80.6	66.0	52.4	65.9	52.35	13.6	121.35	185.83	468.82	590.17	71.35	26.25	49.57
20+81	108.9	65.8	52.3	60.1	51.5	8.6	104.06	191.18	623.15	727.21	61.19	34.90	61.09
21+90	110.5	54.4	50.7	53.1	47.45	5.6	69.37	157.77	582.58	651.95	40.79	32.62	54.76
23+00	100	51.8	44.2	49.05	41.15	7.9	87.78	167.78	457.22	545.00	51.61	25.60	45.78
24+00	100	46.3	38.1	43.55	35.35	8.2	91.11	171.11	392.78	483.89	53.57	22.00	40.65
25+00	100	40.8	32.6	38.4	28.7	9.7	107.78	187.78	318.89	426.67	63.37	17.86	35.84
26+00	75.5	36.0	24.8	36	24	12.0	100.67	161.07	201.33	302.00	59.19	11.27	25.37
26+76		36.0	23.2				286.24	403.08	481.76	768.00	168.31	26.98	64.51
28+06	93.7	36.0	22.8	36	22.7	13.3	138.47	213.43	236.33	374.80	81.42	13.23	31.48
29+00	100	36.0	22.6	36	22.1	13.9	154.44	234.44	245.56	400.00	90.81	13.75	33.60
30+00	100	36.0	21.6	36	21.65	14.4	159.44	239.44	240.56	400.00	93.75	13.47	33.60
31+00	48.1	36.0	21.7	36	21.75	14.3	76.16	114.64	116.24	192.40	44.78	6.51	16.16
31+48		36.0	21.8				304.62	420.34	444.87	749.49	179.12	24.91	62.96
32+73	127	36.0	22.2	36	22.7	13.3	187.68	289.28	320.32	508.00	110.35	17.94	42.67
34+00	100	36.0	23.2	36	23.3	12.7	141.11	221.11	258.89	400.00	82.97	14.50	33.60
35+00	100	36.0	23.4	36	23.3	12.7	141.11	221.11	258.89	400.00	82.97	14.50	33.60
36+00	100	36.0	23.2	36	23.1	12.9	143.33	223.33	256.67	400.00	84.28	14.37	33.60
37+00	100	36.0	23.0	36	22.5	13.5	150.00	230.00	250.00	400.00	88.20	14.00	33.60
38+00	100	36.0	22.0	36	22	14	155.56	235.56	244.44	400.00	91.47	13.69	33.60
39+00	97.9	36.0	22.0	36	21.95	14.05	152.83	231.15	238.77	391.60	89.87	13.37	32.89
39+98		36.0	21.9				194.04	321.04	609.97	804.01	114.10	34.16	67.54
41+31	69	36.0	22.2	36	22.2	13.8	105.80	161.00	170.20	276.00	62.21	9.53	23.18
42+00	100	36.0	22.2	36	22.25	13.75	152.78	232.78	247.22	400.00	89.83	13.84	33.60
43+00	100	36.0	22.3	36	22.45	13.55	150.56	230.56	249.44	400.00	88.53	13.97	33.60
44+00	100	36.0	22.6	36	22.6	13.4	148.89	228.89	251.11	400.00	87.55	14.06	33.60
45+00	100	36.0	22.6	36	23	13	144.44	224.44	255.56	400.00	84.93	14.31	33.60
46+00	100	36.0	23.4	36	23.5	12.5	138.89	218.89	261.11	400.00	81.67	14.62	33.60
47+00	100	36.0	23.6	36	23.75	12.25	136.11	216.11	263.89	400.00	80.03	14.78	33.60
48+00	100	36.0	23.9	36	24.1	11.9	132.22	212.22	267.78	400.00	77.75	15.00	33.60
49+00	100	36.0	24.3	36	23.65	12.35	137.22	217.22	262.78	400.00	80.69	14.72	33.60
50+00	100	36.0	23.0	36	22.95	13.05	145.00	225.00	255.00	400.00	85.26	14.28	33.60
51+00	100	36.0	22.9	36	22.3	13.7	152.22	232.22	247.78	400.00	89.51	13.88	33.60
52+00	100	36.0	21.7	36	21.45	14.55	161.67	241.67	238.33	400.00	95.06	13.35	33.60
53+00	47	36.0	21.2	36	21.3	14.7	76.77	114.37	111.23	188.00	45.14	6.23	15.79
53+47		36.0	21.4				113.05	230.77	653.12	766.17	66.47	36.57	64.36
54+80	120	36.0		36			157.01	277.01	322.99	480.00	92.32	18.09	40.32
56+00	100	36.0	21.9	36	21.50	14.50	161.11	241.11	238.89	400.00	94.73	13.38	33.60

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			

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 Consulting Engineers

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 Mokena, Illinois 708.478.5090
 DeKalb, Illinois 815.787.3111
 Grayslake, Illinois 847.323.5088
 Rockford, Illinois 815.469.1551
 Peoria, Illinois 815.699.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

SCHEDULE OF MATERIALS

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
UKB	020146
CHECKED BY	SHEET NO.
NJP	7 OF 116
DATE	
1-20-05	

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	7A
STA.	TO STA.		FED AID PROJECT	
FED. ROAD DIST. NO. 1	ILLINOIS		CMM-7003 (750)	
CONTRACT NO. 83727				

PAVEMENT SCHEDULE, CONTINUED

STATION	LENGTH FT	PROPOSED PAVEMENT WIDTH	EXISTING PAVEMENT WIDTH	AVERAGE PROPOSED WIDTH FT	AVERAGE EXISTING WIDTH FT	AVERAGE WIDENING WIDTH FT	BIT BINDER AREA SY	AGGREGATE SUBGRADE AREA SY	LEVELING BINDER AREA SY	BIT SURFACE AREA SY	BIT BINDER TONS	BIT LEVELING BINDER TONS	BIT SURFACE TONS
OAK PARK AVENUE													
56+00	100	36.0	21.9	36	21.50	14.50	161.11	241.11	238.89	400.00	94.73	13.38	33.60
57+00	100	36.0	21.1	36	21.15	14.85	165.00	245.00	235.00	400.00	97.02	13.16	33.60
58+00	89.1	36.0	21.2	36	21.20	14.80	146.52	217.80	209.88	356.40	86.15	11.75	29.94
58+89		36.0	21.2				178.97	310.33	942.42	1121.39	105.23	52.78	94.20
60+39	60.9	36.0	21.6	36	21.30	14.70	99.47	148.19	144.13	243.60	58.49	8.07	20.46
61+00	100	36.0	21.0	36	21.00	15.00	166.67	246.67	233.33	400.00	98.00	13.07	33.60
62+00	100	36.0	21.0	36	20.50	15.50	172.22	252.22	227.78	400.00	101.27	12.76	33.60
63+00	100	36.0	20.0	36	20.35	15.65	173.89	253.89	226.11	400.00	102.25	12.66	33.60
64+00	100	36.0	20.7	36	20.70	15.30	170.00	250.00	230.00	400.00	99.96	12.88	33.60
65+00	100	36.0	20.7	36	20.95	15.05	167.22	247.22	232.78	400.00	98.33	13.04	33.60
66+00	100	36.0	21.2	36	21.55	14.45	160.56	240.56	239.44	400.00	94.41	13.41	33.60
67+00	100	36.0	21.9	36	22.80	13.20	146.67	226.67	253.33	400.00	86.24	14.19	33.60
68+00	67.3	36.0	23.7	36	25.20	10.80	80.76	134.60	188.44	269.20	47.49	10.55	22.61
68+67		36.0	26.7										
68+67	132.7		29.5	36	32.75	3.25	47.92	154.08	482.88	530.80			
70+00	100	36.0	36.0	36	36.00	0.00	0.00	80.00	400.00	400.00	0.00	22.40	33.60
71+00	66.3	36.0	36.0	36	36.00	0.00	0.00	53.04	265.20	265.20	0.00	14.85	22.28
71+66		36.0	36.0				50.79	144.71	791.97	842.76	29.86	44.35	70.79
73+00	92.2	46.4	41.7	41.2	38.85	2.35	10.47	53.75	411.60	422.07	6.16	23.05	35.45
73+92	107.8	36.0	36.0	36	36.00	0.00	0.00	0.00	431.20	431.20	0.0	0.0	36.22
75+00	100	36.0	36.0	36	36.00	0.00	0.00	0.00	400.00	400.00	0.0	0.0	33.60
76+00	100	36.0	36.0	33.7	33.70	0.00	0.00	0.00	374.44	374.44	0.0	0.0	31.45
77+00	100	31.4	31.4	29.3	29.30	0.00	0.00	0.00	325.56	0.00	0.0	0.0	0.00
78+00	100	27.2	27.2	25.95	25.95	0.00	0.00	0.00	288.33	288.33	0.0	0.0	24.22
79+00	100	24.7	24.7	24.35	24.35	0.00	0.00	0.00	270.56	270.56	0.0	0.0	22.73
80+00	100	24.0	24.0	24	24.00	0.00	0.00	0.00	266.67	266.67	0.0	0.0	22.40
81+00	100	24.0	24.0	24	24.00	0.00	0.00	0.00	266.67	266.67	0.0	0.0	22.40
82+00	100	24.0	24.0	24	24.00	0.00	0.00	0.00	266.67	266.67	0.0	0.0	22.40
83+00	100	24.0	24.0	24	24.00	0.00	0.00	0.00	266.67	266.67	0.0	0.0	22.40
84+00	100	24.0	24.0	24	24.00	0.00	0.00	0.00	266.67	266.67	0.0	0.0	22.40
85+00	100	24.0	24.0	24	24.00	0.00	0.00	0.00	266.67	266.67	0.0	0.0	22.40
86+00	100	24.0	24.0	24	24.00	0.00	0.00	0.00	266.67	266.67	0.0	0.0	22.40
87+00	100	24.0	24.0	24	24.00	0.00	0.00	0.00	266.67	266.67	0.0	0.0	22.40
88+00	100	24.0	24.0	24	24.00	0.00	0.00	0.00	266.67	266.67	0.0	0.0	22.40
89+00	100	24.0	24.0	24	24.00	0.00	0.00	0.00	266.67	266.67	0.0	0.0	22.40
90+00	100	24.0	24.0	24	24.00	0.00	0.00	0.00	266.67	266.67	0.0	0.0	22.40
91+00	104	24.0	24.0	24	24.00	0.00	0.00	0.00	277.33	277.33	0.0	0.0	23.30

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

Baxter & Woodman
 Consulting Engineers
 Crystal Lake, Illinois 815.459.1800
 Burlington, Wisconsin 262.763.7934
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.767.2111
 Grayslake, Illinois 815.223.5088
 Rockford, Illinois 815.499.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

SCHEDULE OF MATERIALS


DESIGNED BY	NJP	SCALE	NONE
DRAWN BY	UKB	PROJECT NO.	020146
CHECKED BY	NJP	SHEET NO.	7A OF 116
DATE	1-20-05		

PAVEMENT SCHEDULE, CONTINUED

STATION	LENGTH FT	PROPOSED PAVEMENT WIDTH	EXISTING PAVEMENT WIDTH	AVERAGE PROPOSED WIDTH FT	AVERAGE EXISTING WIDTH FT	AVERAGE WIDENING WIDTH FT	BIT BINDER AREA SY	AGGREGATE SUBGRADE AREA SY	LEVELING BINDER AREA SY	BIT SURFACE AREA SY	BIT BINDER TONS	BIT LEVELING BINDER TONS	BIT SURFACE TONS
OAK PARK AVENUE													
92+04		24.0	24.0										
92+04		30.0	30.0										
93+00	96	34.0	34.0	32	32.00	0.00	0.00	0.00	341.33	341.33	0.0	0.0	28.67
94+00	100	34.0	34.0	34	34.00	0.00	0.00	0.00	377.78	377.78	0.0	0.0	31.73
95+00	100	34.0	34.0	34.9	34.90	0.00	0.00	0.00	387.78	387.78	0.0	0.0	32.57
96+00	100	35.8	35.8	38.8	38.80	0.00	0.00	0.00	431.11	431.11	0.0	0.0	36.21
97+10	110	41.8	41.8	44.1	44.10	0.00	0.00	0.00	539.00	539.00	0.0	0.0	45.28
97+10		46.4	46.4										
97+10		34.4	34.4										
98+00	90	34.4	34.4	35.2	35.20	0.00	0.00	0.00	352.00	352.00	0.0	0.0	29.57
98+00	100	36.0	36.0	36	36.00	0.00	0.00	0.00	400.00	400.00	0.0	0.0	33.60
99+00		36.0	36.0										
99+00		36.0	18.0										
100+00	100	36.0	16.0	34	17.00	17.00	188.89	266.67	188.89	377.78	111.07	10.58	31.73
101+58		36.0	36.0				985.87	985.87	193.33	1179.20	579.69	10.83	99.05
101+58	42	41.4	10.6	38.2	10.80	27.40	230.33	230.33	50.65	178.27	135.43	2.84	14.97
102+00		35.0	11.0										
102+00		35.0	24.8										
102+00	100	35.0	24.8	32.45	24.85	7.60	50.48	153.33	276.11	360.56	29.68	15.46	30.29
103+00	120	29.9	24.9	27.45	24.95	2.50	19.63	116.00	332.67	366.00	11.54	18.63	30.74
104+20		25.0	25.0										
				OAK PARK AVENUE SUBTOTAL			8808.64	13520.08	26885.65	35313.89	5151.42	997.78	2921.78
151ST STREET													
120+50		57.1	40.2										
120+50	44.8	42.1	31.6	49.6	35.9	13.7	68.20	68.20	0.00	246.90	40.10	0.00	20.74
120+95	105.2	42.1	31.6	42.05	31.1	10.95	127.99	127.99	0.00	491.52	75.26	0.00	41.29
122+00		42.0	30.6										
122+00	100	42.0	30.6	42	30.4	11.6	128.89	128.99	0.00	466.67	75.79	0.00	39.20
123+00		42.0	30.2										
123+00	100	42.0	30.2	40.65	30.1	10.55	117.22	117.22	0.00	451.67	68.93	0.00	37.94
124+00		39.3	30.0										
124+00	100	39.3	30.0	37.65	30	7.65	85.00	85.00	0.00	418.33	49.98	0.00	35.14
125+00		36.0	30.0										
125+00	86	36.0	30.0	36	30	6	57.33	57.33	0.00	344.00	33.71	0.00	28.90
125+86		36.0	30.0										
				151ST STREET SUBTOTAL			584.63	584.73	0.00	2419.08	343.76	0.00	203.20
JUSTAMERE ROAD													
201+00		36.0	26.6										
201+00	100	36.0	26.6	36	26	10	111.11	184.44	288.89	400.00	65.33	16.18	33.60
202+00		36.0	25.4										
202+00	143.9	36.0	25.4	36	25.3	10.7	171.08	276.61	404.52	575.60	100.60	22.65	48.35
203+44		36.0	25.2										
203+44	58.7	36.0	25.2	37.2	28	9.2	60.00	103.05	182.62	242.63	35.28	10.23	20.38
204+03		38.4	30.8										
204+03		38.4	30.8				36.80	98.47	887.46	924.26	21.64	49.70	77.64
205+85		36.0											
				JUSTAMERE ROAD SUBTOTAL			379.00	662.57	1763.49	2142.49	222.85	98.76	179.97
				PROJECT TOTAL			9772.5	14767.4	28649.1	39875.5	5718.0	1096.5	3305.0

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			


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 Consulting Engineers
 Crystal Lake, Illinois 815.439.1260
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 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 815.223.2088
 Rockford, Illinois 815.489.1051
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

SCHEDULE OF MATERIALS

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
UKB	020146
CHECKED BY	SHEET NO.
NJP	7B OF 116
DATE	
1-20-05	

EARTHWORK SCHEDULE, CONTINUED

STATION	EARTH EXCAVATION				15% SHRINKAGE				REM. & DISP. OF UNSUIT. (CY)	EARTH EXC. TO BE USED IN EMBANK. (CY)	BALANCE WASTE (+) SHORTAGE (-)
	EARTH EXCAVATION (SF)	EMBANK. (SF)	TOPSOIL EX (SF)	UNDERCUT (SF)	EARTH EXCAVATION (CY)	EMBANK. (CY)	TOPSOIL EXCAVATION (CY)	UNDERCUT (CY)			
OAK PARK AVENUE											
87+00	2.7	0.0	8.3	0.0	10.9	0.0	29.3	0.0	29.3	9.3	9.3
88+00	4.1	0.0	7.4	0.0	12.6	0.0	29.1	0.0	29.1	10.7	10.7
89+00	3.2	0.0	7.6	0.0	13.5	0.0	27.8	0.0	27.8	11.5	11.5
90+00	3.5	0.0	7.3	0.0	12.4	0.0	27.6	0.0	27.6	10.5	10.5
91+00	2.7	0.0	8.1	0.0	11.5	0.0	28.5	0.0	28.5	9.8	9.8
92+00	3.7	0.0	8.3	0.0	11.9	0.0	30.4	0.0	30.4	10.1	10.1
93+00	0.0	0.0	0.0	0.0	6.9	0.0	15.4	0.0	15.4	5.8	5.8
94+00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95+00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96+00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97+00	2.3	5.5	6.5	0.0	4.3	10.2	12.0	0.0	12.0	3.6	-6.6
98+00	1.8	0.0	7.4	0.0	7.6	10.2	25.7	0.0	25.7	6.5	-3.7
99+00	16.8	4.9	27.4	0.0	34.4	9.1	64.4	0.0	64.4	29.3	20.2
100+00	29.2	6.8	10.4	0.0	85.2	21.7	70.0	0.0	70.0	72.4	50.7
101+00	93.0	0.0	0.0	0.0	226.3	12.6	19.3	0.0	19.3	192.4	179.8
102+00	29.2	9.7	14.8	0.0	226.3	18.0	27.4	0.0	27.4	192.4	174.4
103+00	8.0	1.3	12.0	0.0	68.9	20.4	49.6	0.0	49.6	58.6	38.2
104+00	5.0	0.4	13.9	0.0	24.1	3.1	48.0	0.0	48.0	20.5	17.3
104+20				0.0	1.9	0.1	5.1	0.0	5.1	1.6	1.4
	SUBTOTALS				3949.1	1977.9	7294.5	71.9	7366.3	3356.7	1378.8
JUSTAMERE											
200+50	98.0	0.0	6.4								
201+00	98.0	0.0	6.4	0.0	181.5	0.0	11.9	0.0	11.9	154.3	154.3
202+00	6.1	2.6	147.2	0.0	192.8	4.8	284.4	0.0	284.4	163.9	159.0
203+00	5.2	3.0	29.2	1.0	20.9	10.4	326.7	1.9	328.5	17.8	7.4
204+00	9.8	4.2	22.3	1.0	27.8	13.3	95.4	3.7	99.1	23.6	10.3
205+00	0.0	2.0	10.2	1.0	18.1	11.5	60.2	3.7	63.9	15.4	3.9
205+85	0.0	2.0	10.2	1.0	0.0	6.3	32.1	3.1	35.3	0.0	-6.3
	SUBTOTALS				441.1	46.3	810.6	12.4	823.0	374.9	328.6
151ST ST											
120+50	23.9	1.1	24.3								
121+00	16.0	8.8	49.3	0.0	36.9	9.2	68.1	0.0	68.1	31.4	22.2
122+00	3.7	5.6	24.8	1.0	36.5	26.7	137.2	1.9	139.1	31.0	4.3
123+00	1.8	6.0	46.5	1.0	10.2	21.5	132.0	3.7	135.7	8.7	-12.8
124+00	5.1	6.5	31.1	1.0	12.8	23.1	143.7	3.7	147.4	10.9	-12.3
125+00	2.6	8.5	18.9	1.0	14.3	27.8	92.6	3.7	96.3	12.1	-15.7
125+86	2.5	1.0	10.3	1.0	8.1	15.1	46.5	3.2	49.7	6.9	-8.2
	SUBTOTALS				118.8	123.4	620.2	16.1	636.4	101.0	-22.4
TOTALS					4509.0	2147.6	8725.3	100.4	8825.7	3832.6	1685.0
EARTHWORK NOTES:											
ASSUME 4 INCH DEPTH OF PROPOSED TOPSOIL PLACEMENT.											
ASSUME 12 INCH DEPTH OF EXISTING TOPSOIL EXCAVATION											
ASSUME 15% SHRINKAGE FACTOR.											

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
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* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

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 Consulting Engineers

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CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

SCHEDULE OF MATERIALS

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
UKB	020146
CHECKED BY	SHEET NO.
NJP	9A OF 116
DATE	
1-20-05	

MANHOLES

OAK PARK AVENUE

ST-MH 1 MANHOLE, TY A, TY 1 F&G, CL 4' DIA. STA. 25+50, 12.4' LT. RIM = 732.35 INV. = 727.49 12" N & W INV. = 728.51 12" E

ST-MH 14 MANHOLE, TY A, TY 1 F&G, CL 4' DIA. STA. 49+50 13' LT. RIM = 712.87 INV. = 706.40 12" N INV. = 709.32 12" W INV. = 709.07 12" E

CATCH BASINS

OAK PARK AVENUE

ST-CB 1 CATCH BASIN, TY C, TY 24 F&G 2' DIA. STA. 19+82 39.2' LT. EP = 731.25 INV. = 726.00

ST-CB 19 CATCH BASIN, TY C, TY 24 F&G 2' DIA. STA. 39+00 18' LT. EP = 726.00 INV. = 722.62 12" E

INLETS

OAK PARK AVENUE

ST-IN 1 INLET, TY A, TY 1 F&G, OL STA. 25+50 32.7' LT. RIM = 729.94 INV. = 727.70 12" E

ST-IN 19 INLET, TY A, TY 8 F&G STA. 64+88 27' LT. RIM = 695.00 INV. = 693.50 12" E

FLARED END SECTION

OAK PARK AVENUE

ST-FES 1 RCEP 24"x30" STA. 32+03 29' RT. INV. 721.97 NW

ST-P 1 15 L.F. OF 12" STSW, CL A, TY 2 @ 1.40% T.B.F. = 2.6 C.Y.

STORM SEWER PIPES

OAK PARK AVENUE

ST-P 32 32 L.F. OF 12" STSW, TY 1 @ 1.00% T.B.F. = 4.2 C.Y.

Table with columns: F.A.U. ROUTE NO., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., STA. TO STA., FED. ROAD DIST. NO., ILLINOIS, FED AID PROJECT, CONTRACT NO. 83727

ST-P 59 32 L.F. OF 12" STSW, TY 1 @ 1.00% T.B.F. = 4.2 C.Y.

FLARED END SECTION

JUSTAMERE ROAD

ST-FES 8 RCP 15" STA. 201+75 28' LT. INV. 673.79

ST-P 11 12 L.F. OF 15" STSW, TY 2 @ 1.00% T.B.F. = 2.8 C.Y.

ST-P 42 8 L.F. OF 12" STSW, TY 1 @ 1.00% T.B.F. = 1.1 C.Y.

ST-P 67 190 L.F. OF 18" STSW, TY 2 @ 1.73% T.B.F. = 48.6 C.Y.

VERTICAL CURVES: 2014-05-SC-H-147-149

CONTRACT NO. 000146 (DNVSS) 2014-05-SC-H-147-149

DESIGNED BY: NJP

DRAWN BY: LKB

CHECKED BY: NJP

DATE: 1-20-05

SCALE: NONE

PROJECT NO.: 020146

SHEET NO.: 10 OF 116

CONSULTANTS

Table with columns: REV, DATE, DESCRIPTION



Baxter & Woodman Consulting Engineers

CITY OF OAK FOREST, ILLINOIS

OAK PARK AVENUE PROJECT

OAK PARK AVENUE, JUSTAMERE ROAD AND 151st STREET DRAINAGE STRUCTURE SCHEDULE

10 OF 116

**MANHOLE
JUSTAMERE ROAD**

ST-MH 25 (SEE OAK PARK AVE/147TH ST. FOR PLAN LOCATION)
MANHOLE, TY A, TY 1 FR, CL
4" DIA.
STA. 200+19 11' LT.
RIM = 679.99
INV. 674.00 15" SW & N

**CATCH BASINS
OAK PARK AVENUE CONT.**

ST-CB 36
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 54+35 53.9' LT.
EP = 704.99
INV. 704.75 15" E
705.02 12" S

ST-CB 37
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 56+25 18' LT.
EP = 704.99
INV. 701.63 12" W & E

ST-CB 38
CATCH BASIN, TY C, TY 24 F&G
2" DIA.
STA. 56+25 18' RT.
EP = 704.99
INV. 701.61 12" W

ST-CB 39
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 59+09 20' RT.
EP = 699.72
INV. 696.34 12" W & SE

ST-CB 40
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 59+09 19.1' LT.
EP = 699.92
INV. 696.54 12" SW & E

ST-CB 41
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 62+00 18' RT.
EP = 697.10
INV. 693.72 12" W & E

ST-CB 42
CATCH BASIN, TY C, TY 24 F&G
2" DIA.
STA. 62+00 18' RT.
EP = 697.10
INV. 693.72 12" W

ST-CB 43
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 64+88 18' LT.
EP = 695.19
INV. 691.81 12" W & E

ST-CB 44
CATCH BASIN, TY C, TY 24 F&G
2" DIA.
STA. 64+88 18' RT.
EP = 695.19
INV. 691.81 12" W

ST-CB 45
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 66+00.7 18' LT.
EP = 695.06
INV. 691.68 12" W & E

ST-CB 46
CATCH BASIN, TY A, TY 24 F&G
6" DIA.
STA. 66+00.7 18' RT.
EP = 694.88
INV. 691.15 24"x38" W & E

ST-CB 47
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 67+55 18' LT.
EP = 695.65
INV. 692.98 12" NW & E

ST-CB 48
CATCH BASIN, TY C, TY 24 F&G
2" DIA.
STA. 67+55 18' RT.
EP = 695.47
INV. 692.92 12" W

ST-CB 49
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 71+00 18' LT.
EP = 696.46
INV. 693.39 12" W & E

ST-CB 50
CATCH BASIN, TY C, TY 24 F&G
2" DIA.
STA. 71+00 18' RT.
EP = 696.64
INV. 693.00 12" E & W

ST-CB 51
CATCH BASIN, TY A, TY 8 F&G
4" DIA.
STA. 71+00 26' RT.
RIM = 695.70
INV. 692.94 12" W & N

**CATCH BASINS
151st STREET**

ST-CB 53 (SEE OAK PARK AVE SHT. NO. FOR PLAN LOCATION)
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 120+28 56' RT.
RIM = 694.44
INV. 691.65 15" NE
691.99 12" S

**CATCH BASINS
JUSTAMERE ROAD**

ST-CB 55 (SEE OAK PARK AVE/147TH ST. FOR PLAN LOCATION)
CATCH BASIN, TY A, TY 8 F&G
4" DIA.
STA. 200+92 28' RT.
RIM = 677.38
INV. 673.27 12" N
675.55 12" W

ST-CB 56
CATCH BASIN, TY A, TY 8 F&G
4" DIA.
STA. 203+30 28.2' RT.
RIM = 672.73
INV. 668.53 12" N & S
670.23 12" W

ST-CB 57
CATCH BASIN, TY A, TY 8 F&G
4" DIA.
STA. 204+19 23.8' RT.
RIM = 670.55
INV. 667.18 12" N & S

ST-CB 58
CATCH BASIN, TY A, TY 8 F&G
6" DIA.
STA. 204+29 23.8' RT.
RIM = 670.16
INV. 667.00 12" N & S

**FLARED END SECTION
151st STREET**

ST-FES 5 (SEE OAK PARK AVE SHT. NO. FOR PLAN LOCATION)
RCP 15"
STA. 120+61 44' RT.
INV. 692.00

**INLETS
JUSTAMERE ROAD**

ST-IN 23 (SEE OAK PARK AVE/147TH ST. FOR PLAN LOCATION)
INLET, TY A, TY 24 F&G
STA. 200+92 18.8' RT.
EP = 678.13
INV. 675.63 12" E

ST-IN 24
INLET, TY A, TY 24 F&G
STA. 203+30 17' RT.
EP = 673.98
INV. 671.19 12" E

**STORM SEWER PIPES
OAK PARK AVENUE CONT.**

ST-P 85
7 L.F. OF 12" STSW, TY 1 @ 2.57%
T.B.F. = 0.9 C.Y.

ST-P 86
33 L.F. OF 12" STSW, TY 1 @ 0.61%
T.B.F. = 4.4 C.Y.

ST-P 87
113 L.F. OF 24"x38" E STSW, TY 1 @ 0.27%
T.B.F. = 14.7 C.Y.

ST-P 88
8 L.F. OF 12" STSW, TY 1 @ 1.00%

ST-P 89
7 L.F. OF 12" STSW, TY 1 @ 3.29%
T.B.F. = 0.9 C.Y.

ST-P 90
33 L.F. OF 24"x38" E STSW, TY 1 @ 0.64%
T.B.F. = 4.3 C.Y.

ST-P 91
5 L.F. OF 24"x38" E STSW, TY 1 @ 0.46%

ST-P 92
154 L.F. OF 15" STSW, TY 1 @ 0.52%
T.B.F. = 18.6 C.Y.

ST-P 93
27 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 1.3 C.Y.

ST-P 94
7 L.F. OF 12" STSW, TY 1 @ 0.50%
T.B.F. = 0.9 C.Y.

ST-P 95
33 L.F. OF 12" STSW, TY 1 @ 0.50%
T.B.F. = 4.4 C.Y.

ST-P 96
11 L.F. OF 12" STSW, TY 1 @ 1.00%

ST-P 97
39 L.F. OF 12" STSW, TY 2 @ 1.00%
T.B.F. = 5.1 C.Y.

ST-P 98
6 L.F. OF 12" STSW, TY 1 @ 1.00%

ST-P 99
80 L.F. OF 12" STSW, TY 1 @ 1.00%

ST-P 100
15 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 1.0 C.Y.

ST-P 101
29 L.F. OF 15" STSW, TY 1 @ 1.00%
T.B.F. = 0.8 C.Y.

ST-P 102
120 L.F. OF 15" STSW, TY 1, WATER MAIN,
QUALITY @ 0.50%
T.B.F. = 14.5 C.Y.

ST-P 103
5 L.F. OF 15" STSW, TY 1 @ 0.50%
T.B.F. = 0.6 C.Y.

ST-P 104
76 L.F. OF 15" STSW, TY 2 @ 0.16%
T.B.F. = 21.1 C.Y.

ST-P 105
154 L.F. OF 15" STSW, TY 2 @ 0.16%
T.B.F. = 54.2 C.Y.

ST-P 106
8 L.F. OF 12" STSW, TY 1 @ 1.0%
T.B.F. = 0.6 C.Y.

ST-P 107
6 L.F. OF 12" STSW, TY 1 @ ???
T.B.F. = 0.9 C.Y.

ST-P 108
30 L.F. OF 4" STSW, TY 1, WATER MAIN QUALITY
@ 1.00%
T.B.F. = 1.0 C.Y.

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	11
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT	
			CMM-7003 (750)	

CONTRACT NO. 83727

**STORM SEWER PIPES
JUSTAMERE ROAD**

ST-P 105
SEE OAK PARK AVE/147TH ST. SHT. NO.

ST-P 108
237 L.F. OF 12" STSW, TY 1 @ 2.0%
T.B.F. = 14.6 C.Y.

ST-P 109
10 L.F. OF 12" STSW, TY 1 @ 9.6%

ST-P 110
89 L.F. OF 12" STSW, TY 1 @ 1.5%

ST-P 111
9 L.F. OF 10" STSW, TY 1 @ 2.0%
T.B.F. = 1.2 C.Y.

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			

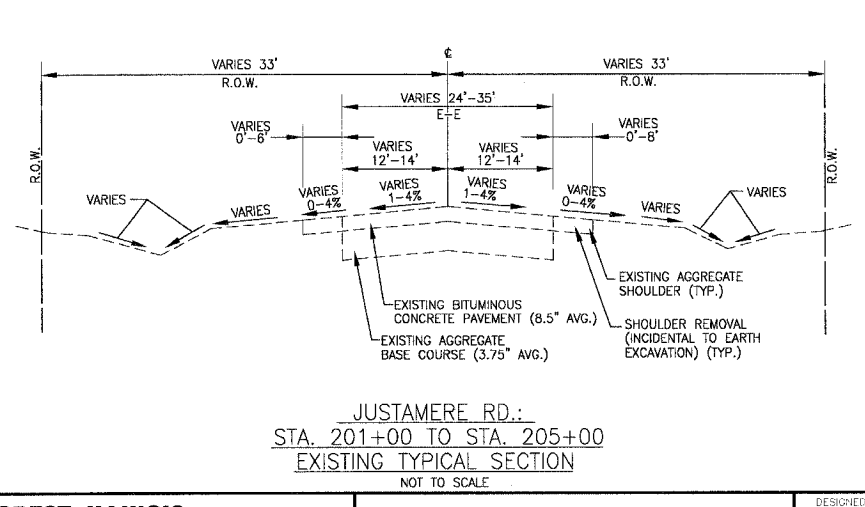
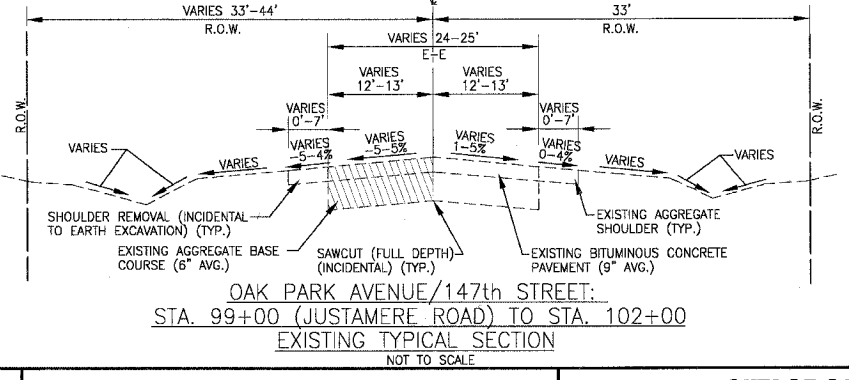
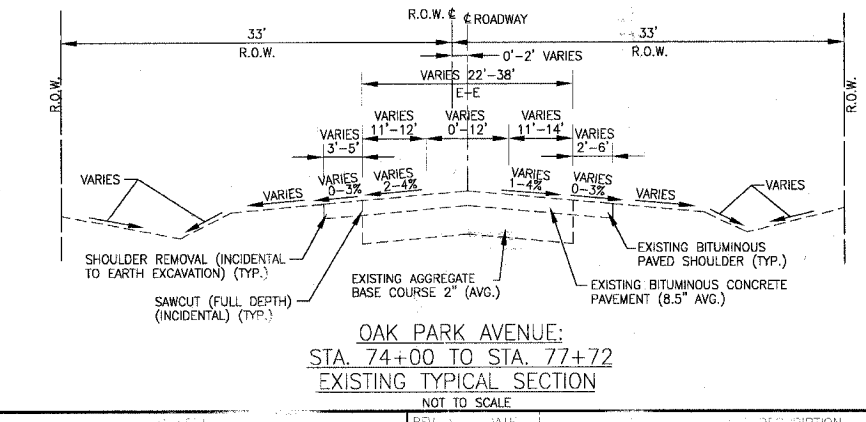
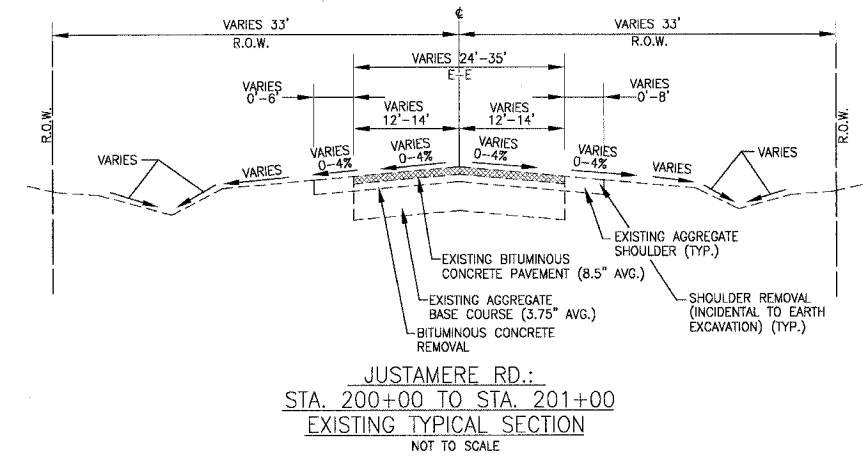
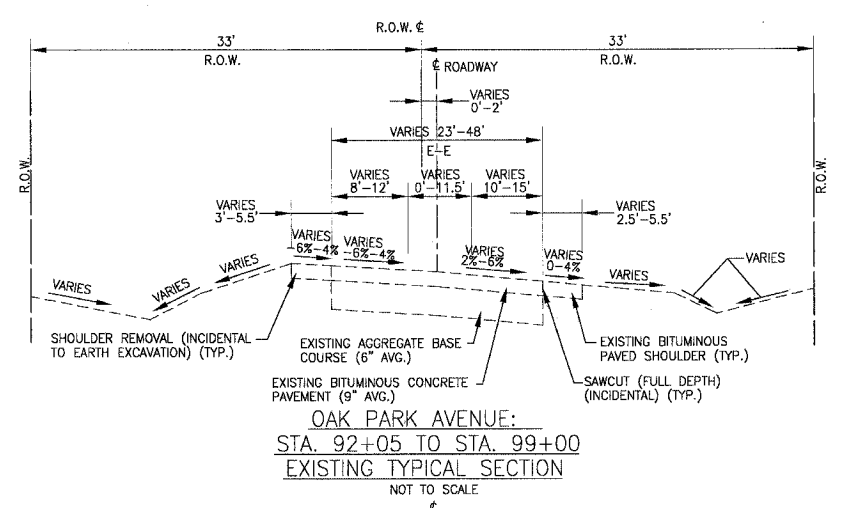
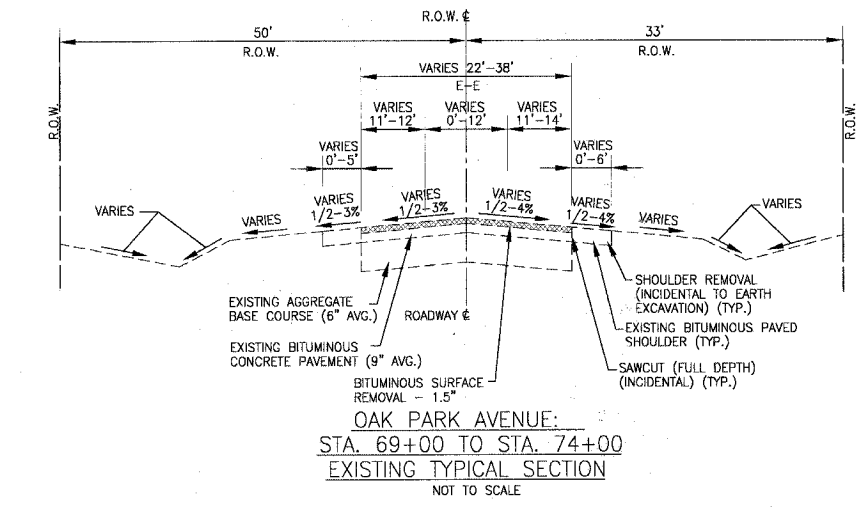
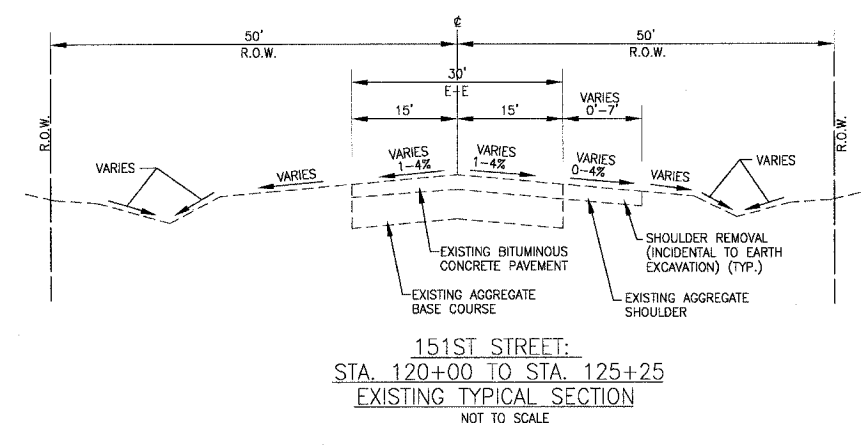
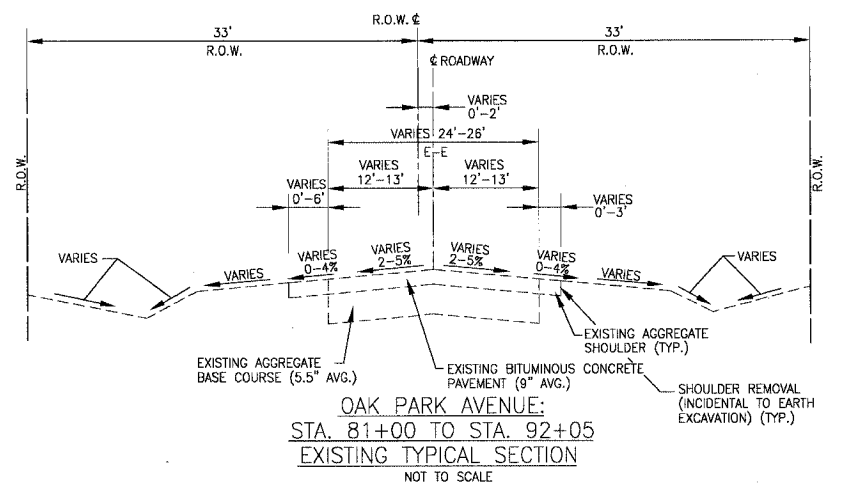
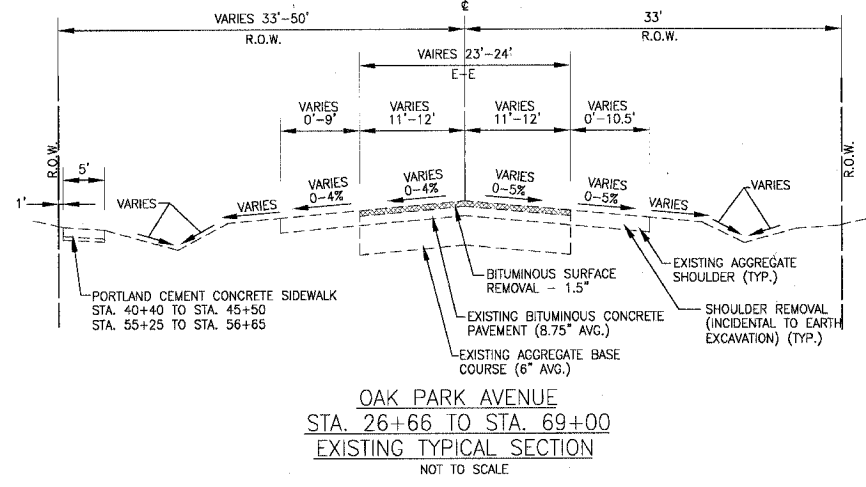
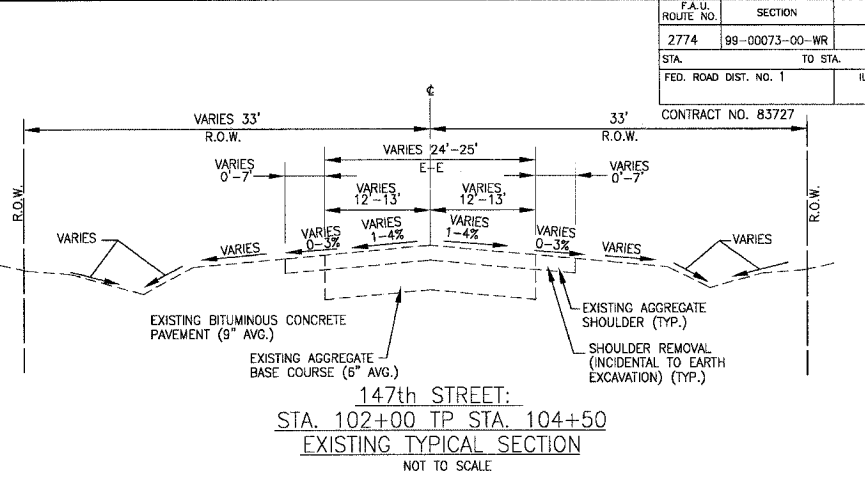
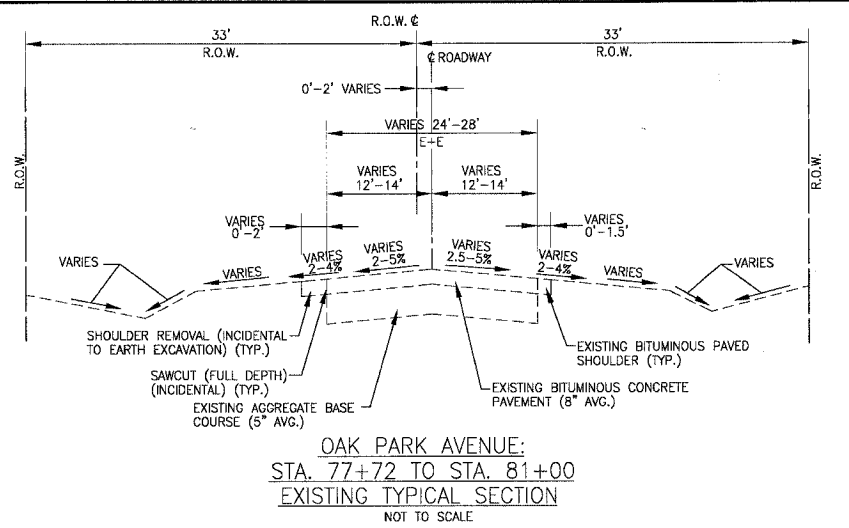
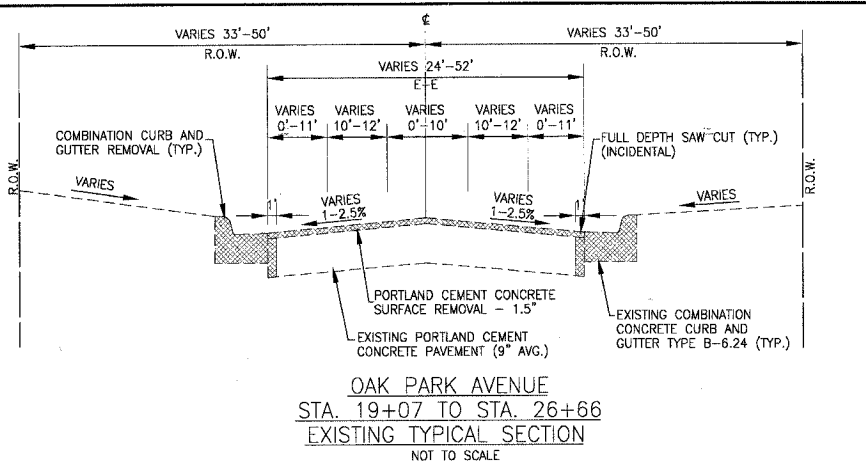
BAKTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.459.1200
 Burlington, Wisconsin 262.763.7854
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Graystone, Illinois 847.253.5089
 Rockford, Illinois 815.489.1651
 Plainfield, Illinois 815.609.7435

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

**OAK PARK AVENUE, JUSTAMERE ROAD
 AND 151st STREET
 DRAINAGE STRUCTURE SCHEDULE**

DESIGNED BY NJP	SCALE NONE
DRAWN BY LKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO. 11 OF 116
DATE 1-20-05	

CONTRACT NO. 83727



A. OAK FOREST, ILLINOIS 60451
 1515 W. 116th Street
 Oak Forest, IL 60451
 815-797-1111
 www.oakforest.org

REV.	DATE	DESCRIPTION
1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

BAXTER & WOODMAN
 Consulting Engineers

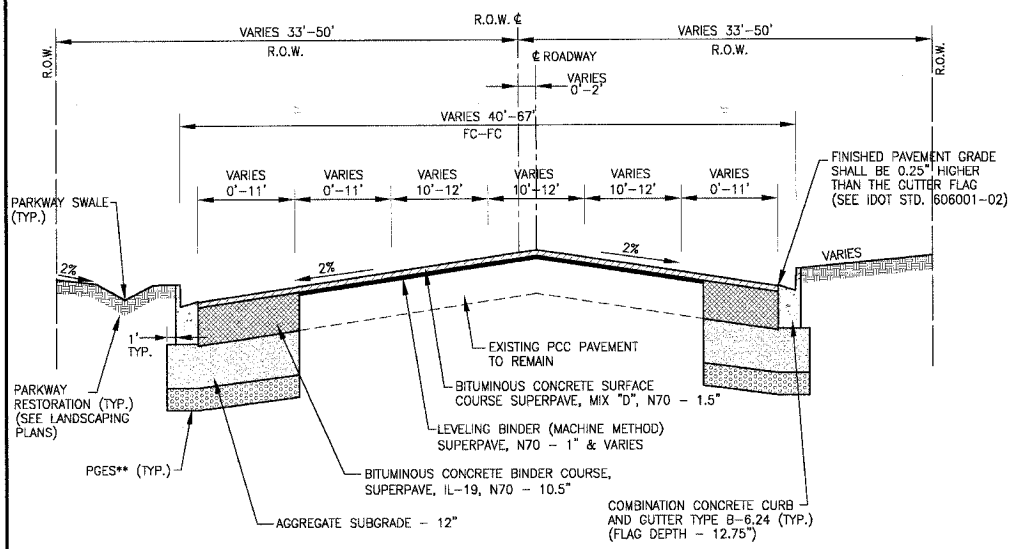
Baxter & Woodman
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 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.797.1111
 Ompok, Illinois 847.223.0888
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

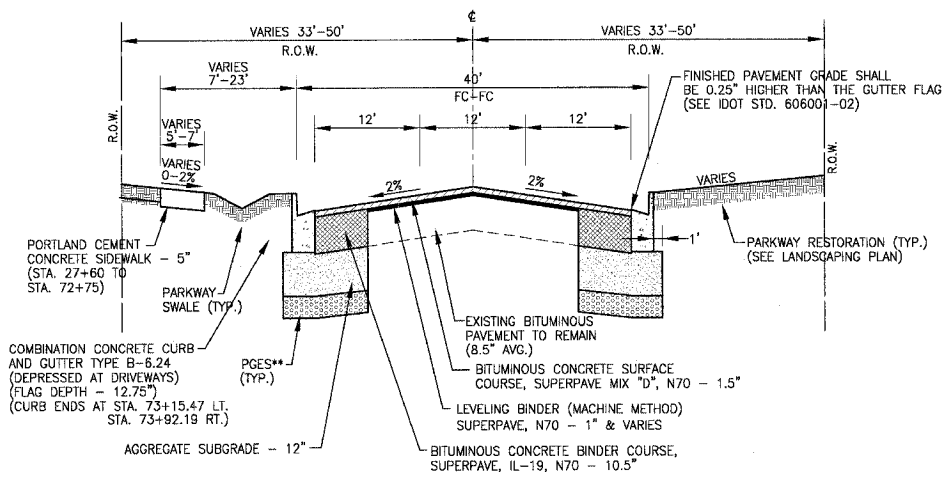
EXISTING TYPICAL SECTIONS

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DRAWN BY	UKB	PROJECT NO.	020146
CHECKED BY	NJP	SHEET NO.	12 OF 116
DATE	1-20-05		

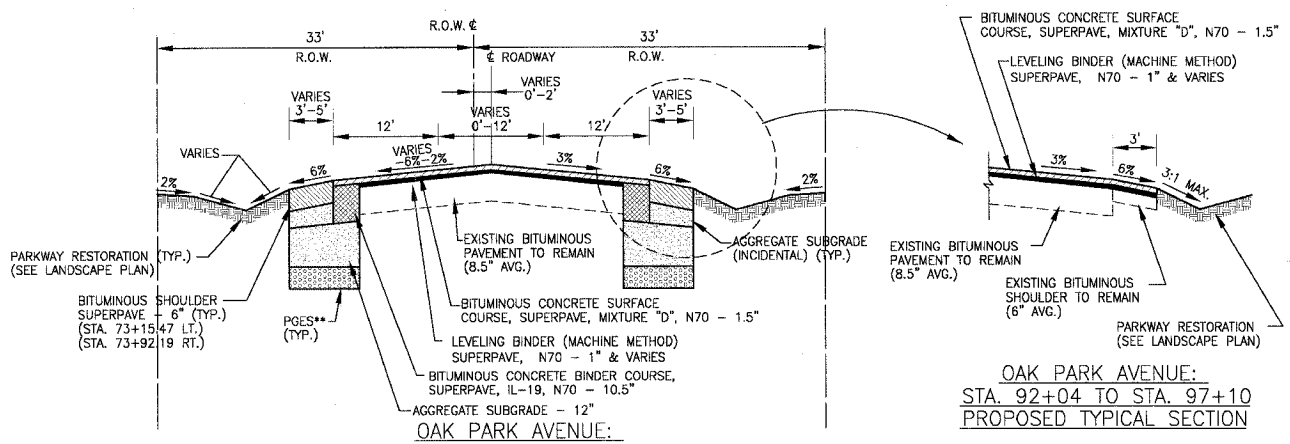
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	13
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		
		CMM-7003 (750)		
CONTRACT NO. 83727				



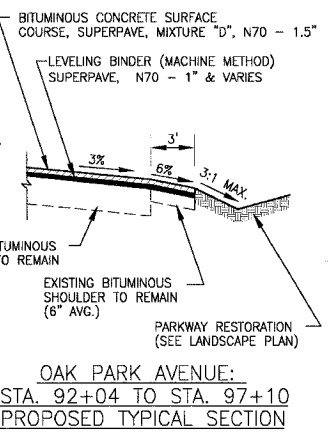
OAK PARK AVENUE:
STA. 19+07 (159TH STREET) TO STA. 26+50
PROPOSED TYPICAL SECTION



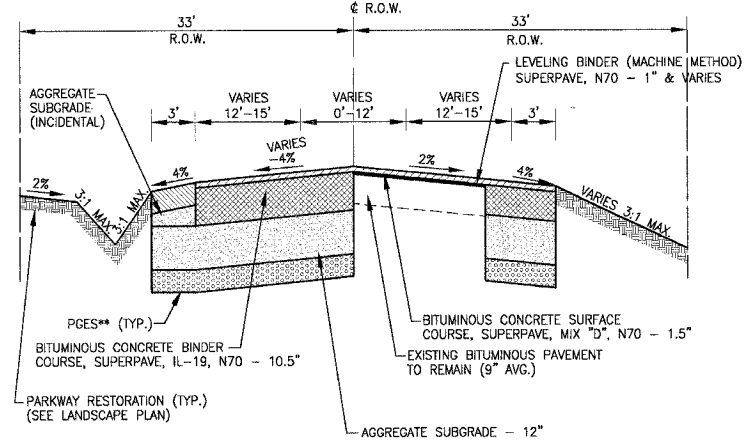
OAK PARK AVENUE:
STA. 26+50 TO STA. 74+00
PROPOSED TYPICAL SECTION



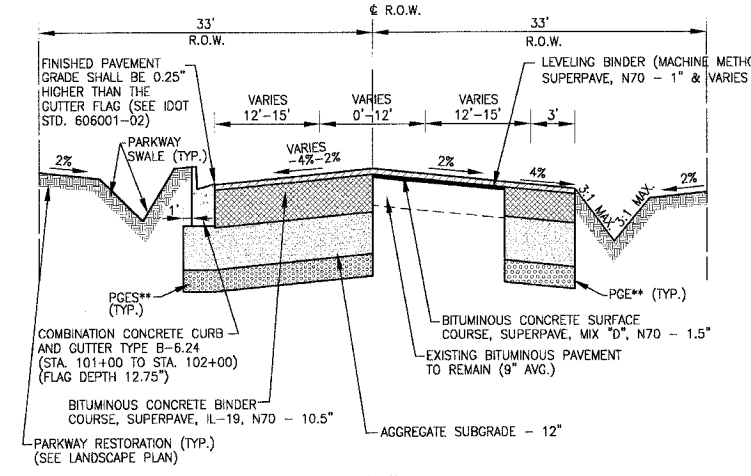
OAK PARK AVENUE:
STA. 74+00 TO STA. 99+00
PROPOSED TYPICAL SECTION



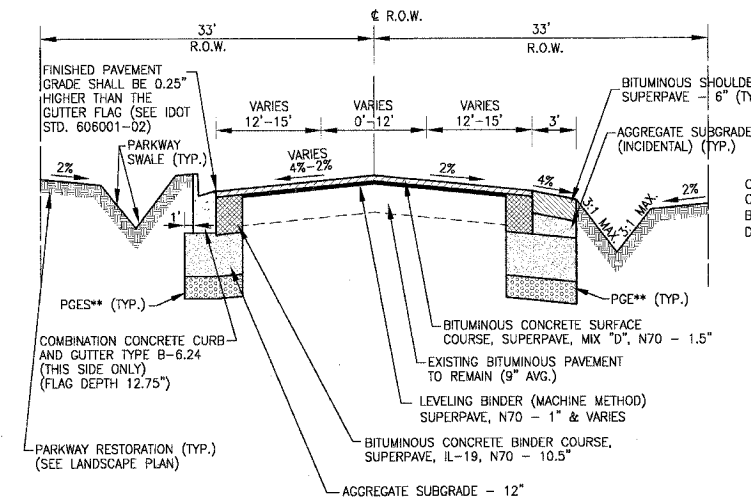
OAK PARK AVENUE:
STA. 92+04 TO STA. 97+10
PROPOSED TYPICAL SECTION



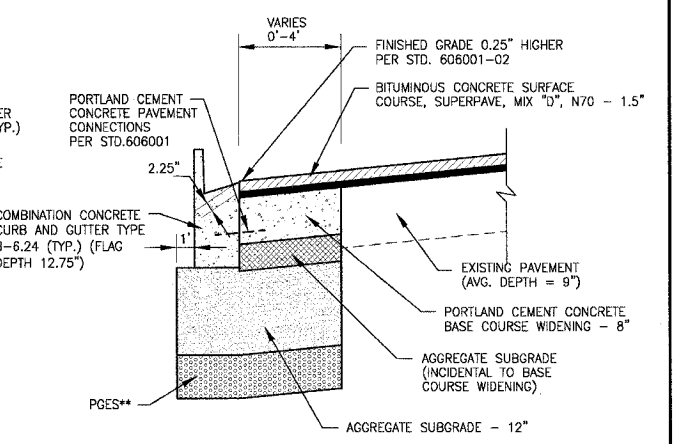
OAK PARK AVENUE:
STA. 99+00 TO STA. 100+72
PROPOSED TYPICAL SECTION



147th STREET
STA. 100+72 TO STA. 102+00
PROPOSED TYPICAL SECTION



147th STREET
STA. 102+00 TO STA. 104+20
PROPOSED TYPICAL SECTION



PORTLAND CEMENT CONCRETE
BASE COURSE WIDENING DETAIL

NOTES

1. STRIP REFLECTIVE CRACK CONTROL TREATMENT SHALL BE PLACED OVER ALL JOINTS WHERE THE EXISTING EDGE OF PAVEMENT ADJUTS NEW PAVEMENT WIDENING PRIOR TO THE FINAL RESURFACING, IN ACCORDANCE WITH SECTION 443 OF THE STANDARD SPECIFICATIONS.
2. PORTLAND CEMENT CONCRETE BASE COURSE WIDENING SHALL BE USED WHERE WIDENING WIDTH FROM EXISTING TO PROPOSED EDGE OF PAVEMENT IS 4 FEET OR LESS, AND NOT PARALLEL AND DIRECTLY OVER PROPOSED MAINLINE STORM SEWER. SEE DETAIL THIS SHEET.
3. STATION 100+72, C/L OF OAK PARK AVENUE (BK) = STATION 100+72 C/L OF 147TH STREET (AH)

PARKWAY RESTORATION:

PARKWAY RESTORATION SHALL BE PAID AS THE FOLLOWING ITEMS IN AREAS ADJACENT TO RESIDENTIAL OR COMMERCIAL PROPERTIES, AND WHERE DIRECTED BY THE ENGINEER:

- TOPSOIL FURNISH AND PLACE, 4"
- SODDING, SALT TOLERANT
- NITROGEN, PHOSPHOROUS, AND POTASSIUM NUTRIENTS
- SUPPLEMENTAL WATERING

PARKWAY RESTORATION SHALL BE PAID AS THE FOLLOWING ITEMS IN AREAS ADJACENT TO FOREST PRESERVE, UNDEVELOPED PROPERTY, AND WHERE DIRECTED BY THE ENGINEER:

- TOPSOIL FURNISH AND PLACE, 4"
- SEEDING, CLASS 2A
- NITROGEN, PHOSPHOROUS, AND POTASSIUM NUTRIENTS
- EROSION CONTROL BLANKET
- SUPPLEMENTAL WATERING

POROUS GRANULAR EMBANKMENT SUBGRADE (PGES) QUANTITY HAS BEEN INCLUDED IN CONTRACT FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT NEED TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSUITABLE SOILS SHOULD 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 AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGE OR EMBANKMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSUITABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
Consulting Engineers

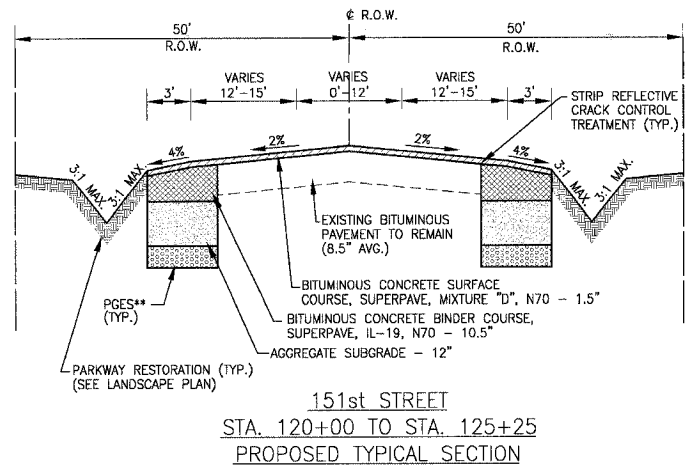
Baxter & Woodman
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Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.707.2111
Ogleside, Illinois 847.233.5088
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

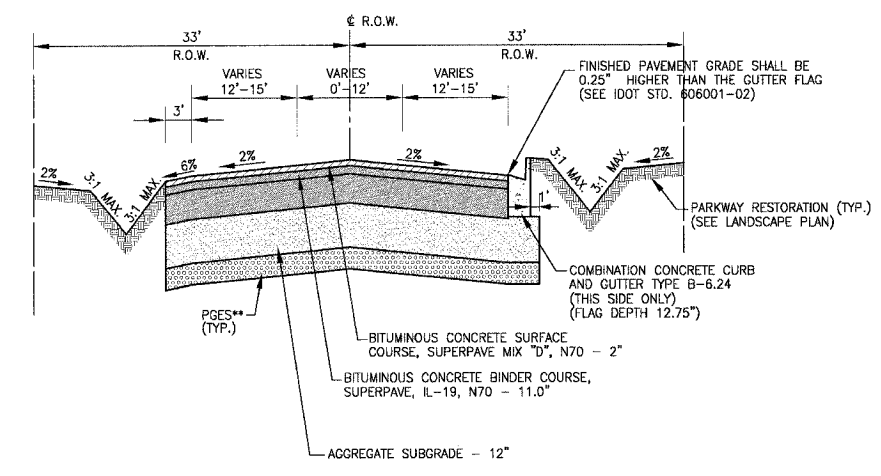
OAK PARK AVENUE/147th STREET
PROPOSED TYPICAL SECTIONS

DESIGNED BY NJP	SCALE NONE
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	13 OF 116

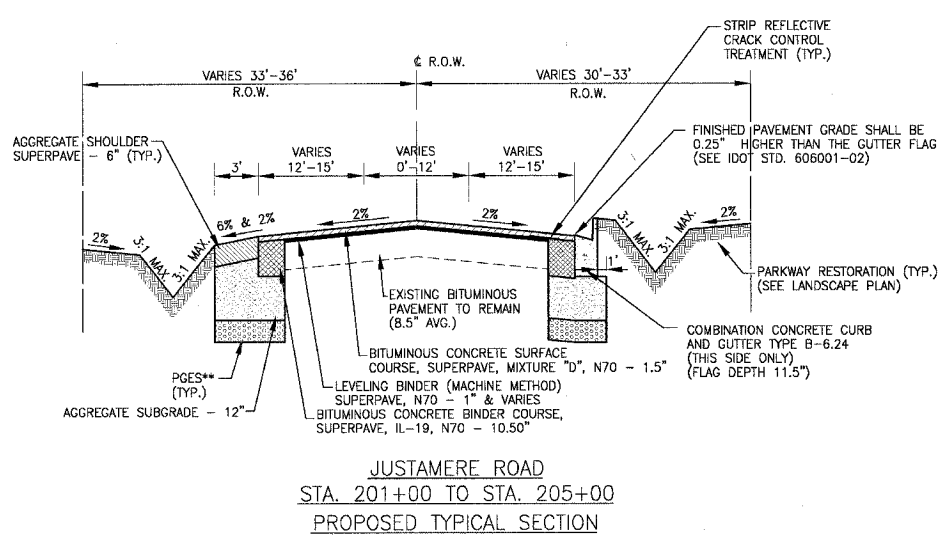
CONTRACT NO. 83727



151st STREET
STA. 120+00 TO STA. 125+25
PROPOSED TYPICAL SECTION



JUSTAMERE ROAD
STA. 200+21 TO STA. 201+00
PROPOSED TYPICAL SECTION



JUSTAMERE ROAD
STA. 201+00 TO STA. 205+00
PROPOSED TYPICAL SECTION

MIXTURE REQUIREMENTS
THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURES IS 112 LBS/SQYD/IN
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

ITEM	AC TYPE	VOIDS	RAP %
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70	PG 64-22	4% @ 70 Gyr	15%
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	PG 64-22	4% @ 70 Gyr	10%
DRIVEWAY MIXES (BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX. "C", N50)	PG 64-22	4% @ 50 Gyr	15%
LEVELING BINDER (MACHINE METHOD) SUPERPAVE, N70	PG 64-22	4% @ 70 Gyr	10%
CLASS D PATCHES, 9-INCH / IL-19	PG 64-22	4% @ 70 Gyr	15%
INCIDENTAL BITUMINOUS SURFACING (BIT. CONC. SURFACE CSE, SUPERPAVE, MIX "C", N50) *	PG 64-22	4% @ 50 Gyr	15%
BITUMINOUS REPLACEMENT OVER PATCHES, IL-19	PG 64-22	4% @ 70 Gyr	15%

* = TO BE USED IN PARKING LOT SURFACING, RAMPS, BIKE PATH, AND WHERE DIRECTED BY ENGINEER

PARKWAY RESTORATION:

PARKWAY RESTORATION SHALL BE PAID AS THE FOLLOWING ITEMS IN AREAS ADJACENT TO RESIDENTIAL OR COMMERCIAL PROPERTIES, AND WHERE DIRECTED BY THE ENGINEER:

- TOPSOIL FURNISH AND PLACE, 4"
- SODDING, SALT TOLERANT
- NITROGEN, PHOSPHOROUS, AND POTASSIUM NUTRIENTS
- SUPPLEMENTAL WATERING

PARKWAY RESTORATION SHALL BE PAID AS THE FOLLOWING ITEMS IN AREAS ADJACENT TO FOREST PRESERVE, UNDEVELOPED PROPERTY, AND WHERE DIRECTED BY THE ENGINEER:

- TOPSOIL FURNISH AND PLACE, 4"
- SEEDING, CLASS 2A
- NITROGEN, PHOSPHOROUS, AND POTASSIUM NUTRIENTS
- EROSION CONTROL BLANKET
- SUPPLEMENTAL WATERING

STRUCTURAL DESIGN DATA

STREET	STRUCTURAL DESIGN TRAFFIC 2013			STREET CLASS	TRAFFIC FACTOR	SSR	TEMP	STRAIN	AC	EAC	REQ'D BIT. THICKNESS	CHOSEN MECHANISTIC PAVEMENT DESIGN
	PV	SU	MU									
OAK PARK AVENUE	9474	563	184	II	2.71	PODR	78°F	77	20	590	11.75"	1.5" BIT. CONC. SURF. CRSE., SUPERPAVE, MIX D, N70 1" & VARIES LEVELING BINDER (MACHINE METHOD), SUPERPAVE, N70 10.5" BIT. CONC. BINDER CRSE., SUPERPAVE, IL-19, N70 12" AGGREGATE SUBGRADE, TYPE B
147th STREET	9248	549	180	II	2.71	PODR	78°F	77	20	590	11.75"	1.5" BIT. CONC. SURF. CRSE., SUPERPAVE, MIX D, N70 1" & VARIES LEVELING BINDER (MACHINE METHOD) SUPERPAVE, N70 10.5" CONC. BINDER CRSE., SUPERPAVE, IL-19, N70 12" AGGREGATE SUBGRADE, TYPE B
JUSTAMERE ROAD	4929	292	95	II	2.71	PODR	78°F	77	20	590	11.75"	1.5" BIT. CONC. SURF. CRSE., SUPERPAVE, MIX D, N70 1" & VARIES LEVELING BINDER (MACHINE METHOD) SUPERPAVE, N70 10.5" BIT. CONC. BINDER CRSE., SUPERPAVE, IL-19, N70 12" AGGREGATE SUBGRADE, TYPE B
151st STREET	1153	61	0	II	0.50	PODR	78°F	130	20	590	9.0"	1.5" BIT. CONC. SURF. CRSE., SUPERPAVE, MIX D, N70 10.25" BIT. CONC. BINDER CRSE., SUPERPAVE, IL-19, N70 12" AGGREGATE SUBGRADE, TYPE B

**POROUS GRANULAR EMBANKMENT SUBGRADE (PGES) QUANTITY HAS BEEN INCLUDED IN CONTRACT FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD 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 UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGE OR EMBANKMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
BAXTER & WOODMAN	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

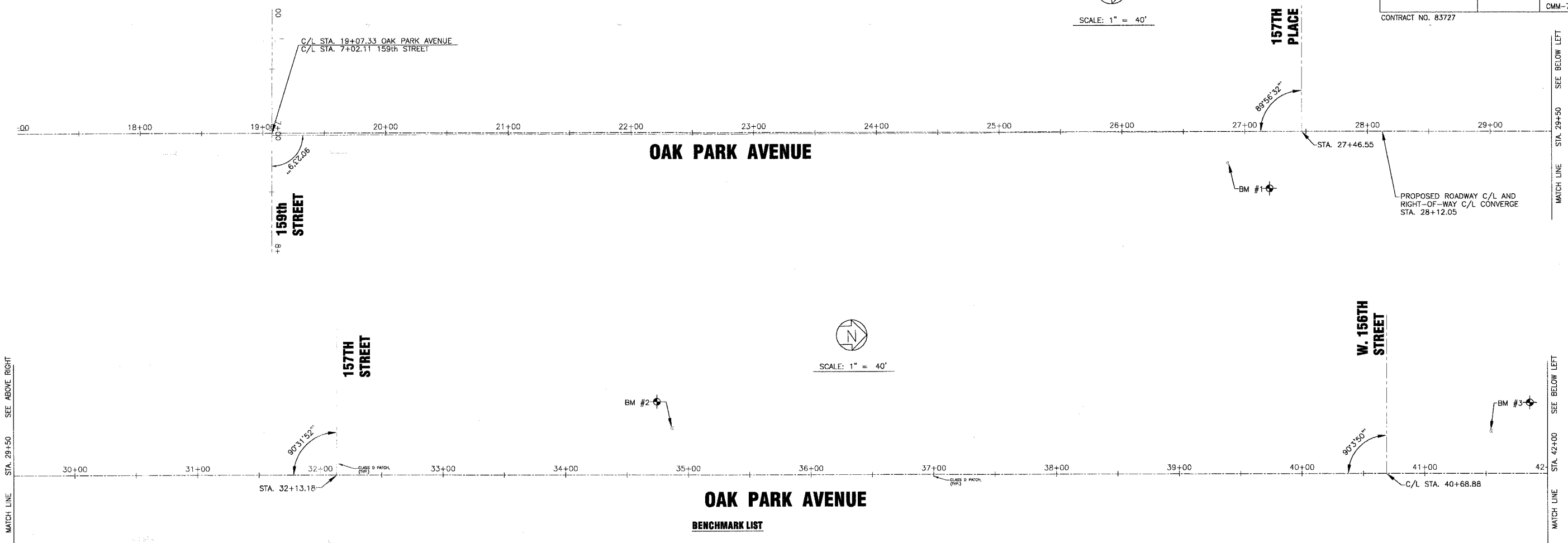
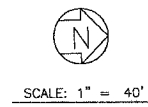
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 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Grayslake, Illinois 847.223.9089
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

151st STREET & JUSTAMERE ROAD
PROPOSED TYPICAL SECTIONS AND
STRUCTURAL DESIGN DATA

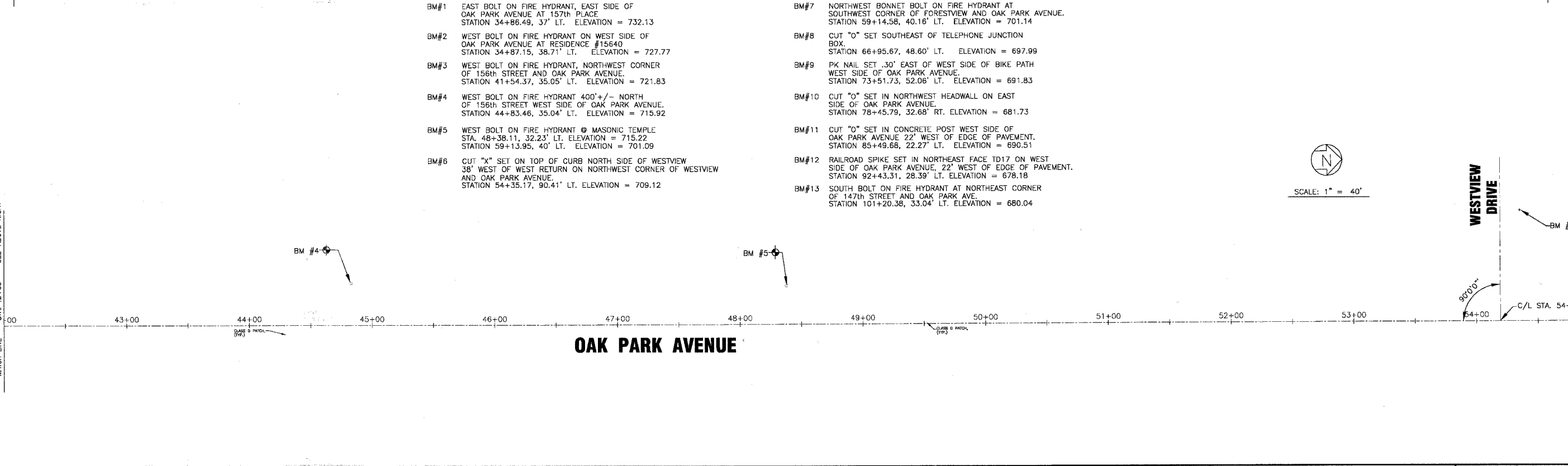
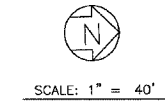
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DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	14 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	15
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT CMM-7003 (750)		
CONTRACT NO. 83727				



BENCHMARK LIST

- | | |
|--|---|
| <p>BM#1 EAST BOLT ON FIRE HYDRANT, EAST SIDE OF OAK PARK AVENUE AT 157th PLACE STATION 34+86.49, 37' LT. ELEVATION = 732.13</p> <p>BM#2 WEST BOLT ON FIRE HYDRANT ON WEST SIDE OF OAK PARK AVENUE AT RESIDENCE #15640 STATION 34+87.15, 38.71' LT. ELEVATION = 727.77</p> <p>BM#3 WEST BOLT ON FIRE HYDRANT, NORTHWEST CORNER OF 156th STREET AND OAK PARK AVENUE. STATION 41+54.37, 35.05' LT. ELEVATION = 721.83</p> <p>BM#4 WEST BOLT ON FIRE HYDRANT 400'+/- NORTH OF 156th STREET WEST SIDE OF OAK PARK AVENUE. STATION 44+83.46, 35.04' LT. ELEVATION = 715.92</p> <p>BM#5 WEST BOLT ON FIRE HYDRANT @ MASONIC TEMPLE STA. 48+38.11, 32.23' LT. ELEVATION = 715.22 STATION 59+13.95, 40' LT. ELEVATION = 701.09</p> <p>BM#6 CUT "X" SET ON TOP OF CURB NORTH SIDE OF WESTVIEW 38' WEST OF WEST RETURN ON NORTHWEST CORNER OF WESTVIEW AND OAK PARK AVENUE. STATION 54+35.17, 90.41' LT. ELEVATION = 709.12</p> | <p>BM#7 NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF FORESTVIEW AND OAK PARK AVENUE. STATION 59+14.58, 40.16' LT. ELEVATION = 701.14</p> <p>BM#8 CUT "O" SET SOUTHEAST OF TELEPHONE JUNCTION BOX. STATION 66+95.67, 48.60' LT. ELEVATION = 697.99</p> <p>BM#9 PK NAIL SET .30' EAST OF WEST SIDE OF BIKE PATH WEST SIDE OF OAK PARK AVENUE. STATION 73+51.73, 52.06' LT. ELEVATION = 691.83</p> <p>BM#10 CUT "O" SET IN NORTHWEST HEADWALL ON EAST SIDE OF OAK PARK AVENUE. STATION 78+45.79, 32.68' RT. ELEVATION = 681.73</p> <p>BM#11 CUT "O" SET IN CONCRETE POST WEST SIDE OF OAK PARK AVENUE 22' WEST OF EDGE OF PAVEMENT. STATION 85+49.68, 22.27' LT. ELEVATION = 690.51</p> <p>BM#12 RAILROAD SPIKE SET IN NORTHEAST FACE TD17 ON WEST SIDE OF OAK PARK AVENUE, 22' WEST OF EDGE OF PAVEMENT. STATION 92+43.31, 28.39' LT. ELEVATION = 678.18</p> <p>BM#13 SOUTH BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF 147th STREET AND OAK PARK AVENUE. STATION 101+20.38, 33.04' LT. ELEVATION = 680.04</p> |
|--|---|



I:\OAKF\1000\46\DWG\20146-TIES.dwg
 Plotter: 5-01-06 @ 4:56pm By: 354rjp
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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			

BAXTER & WOODMAN
 Consulting Engineers

Baxter & Woodman
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Ormsville, Illinois 847.233.5080
 Rockford, Illinois 815.488.1551
 Plainfield, Illinois 815.608.7485

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

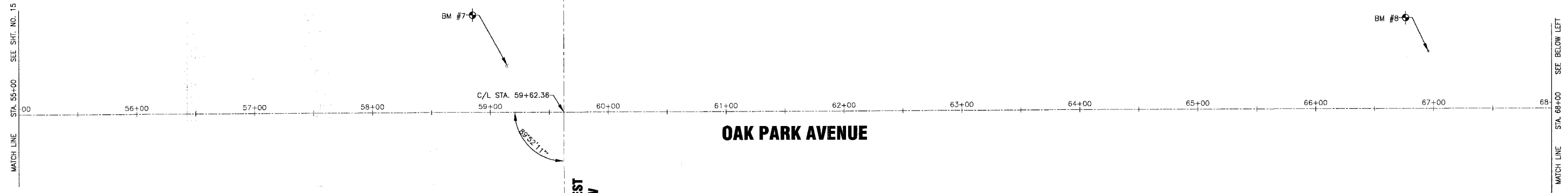
ALIGNMENT AND TIES
OAK PARK AVENUE
STA. 17+00 TO STA. 55+00

DESIGNED BY	SCALE
NJP	HORIZ: 1"=40'
DRAWN BY	PROJECT NO.
UKB	020146
CHECKED BY	SHEET NO.
NJP	15 OF 116
DATE	
1-20-05	

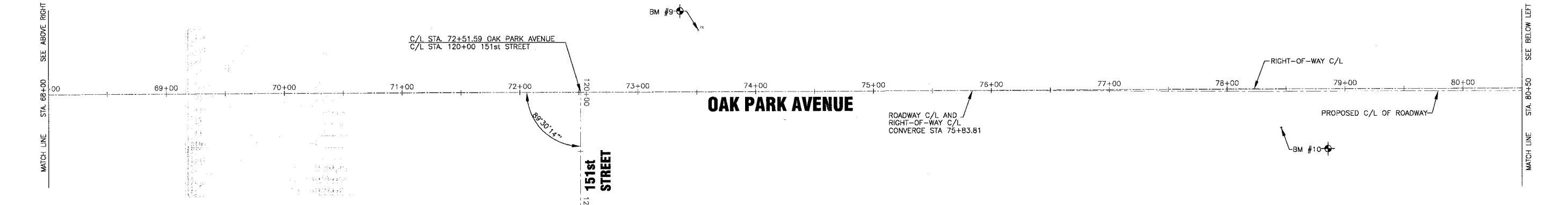
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	16
STA.	TO STA.	ILLINOIS	FED AID PROJECT	
FED. ROAD DIST. NO. 1			CMM-7003 (750)	
CONTRACT NO. 83727				



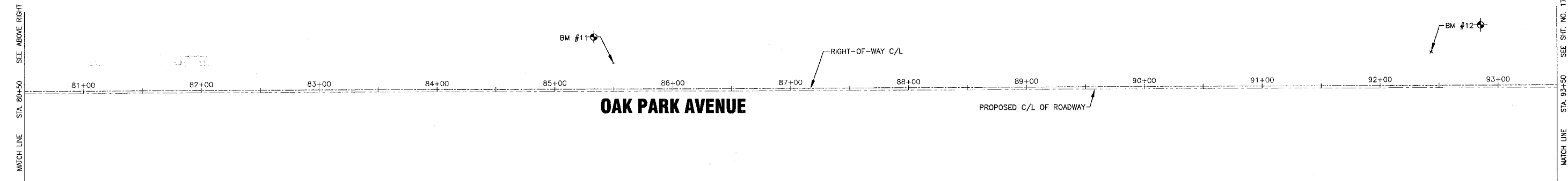
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SCALE: 1" = 40'



SCALE: 1" = 40'



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	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
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 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Grayslake, Illinois 847.220.6089
 Rockford, Illinois 815.409.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

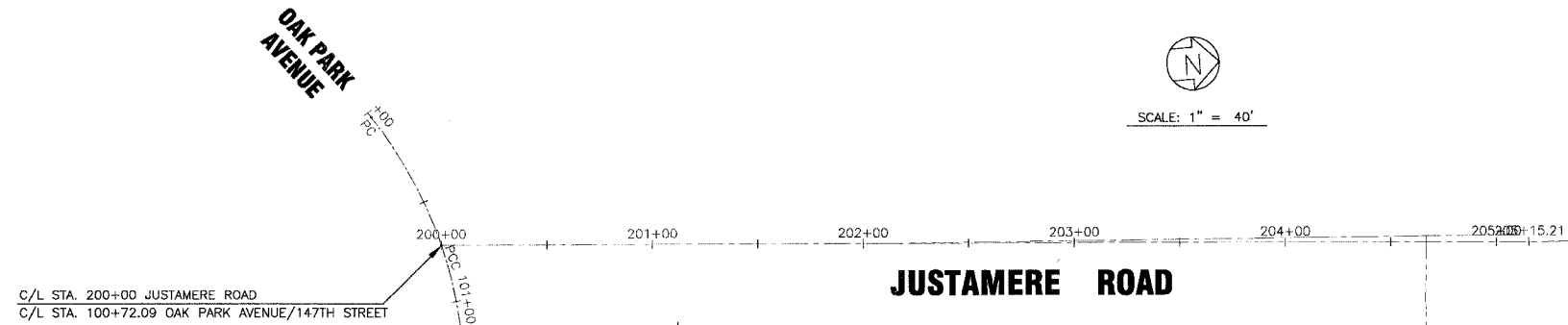
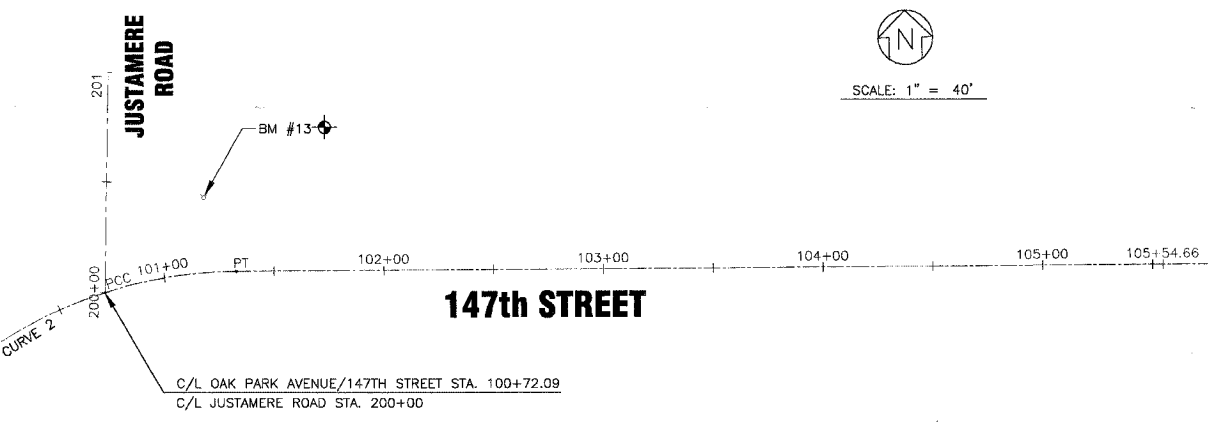
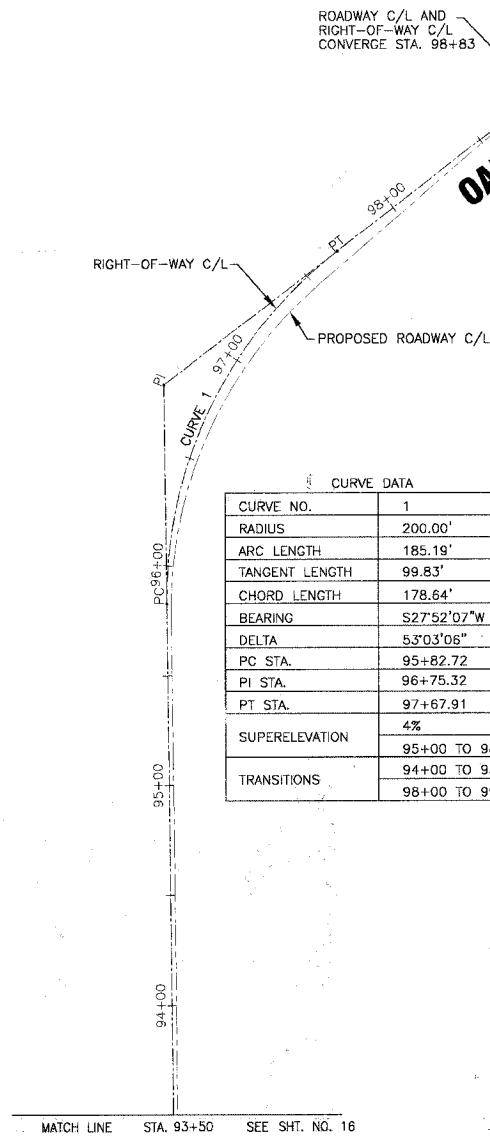
ALIGNMENT AND TIES
OAK PARK AVENUE
STA. 55+00 TO STA. 93+50

DESIGNED BY	SCALE
NJP	HORIZ: 1"=40'
DRAWN BY	PROJECT NO.
UKB	020146
CHECKED BY	SHEET NO.
NJP	16 OF 116
DATE	
1-20-05	

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	17
STA. TO STA.		FED. ROAD DIST. NO. 1		ILLINOIS
		FED AID PROJECT		CMM-7003 (750)
CONTRACT NO. 83727				

CURVE DATA	
CURVE NO.	2
RADIUS	200.00'
ARC LENGTH	130.09'
TANGENT LENGTH	67.44'
CHORD LENGTH	127.81'
BEARING	S73°01'41"W
DELTA	37°16'03"
PC STA.	100+02.77
PI STA.	100+67.76
PT STA.	101+32.80
SUPERELEVATION	4%
	100+00 TO 102+00
TRANSITIONS	99+00 TO 100+00
	102+00 TO 103+00

CURVE DATA	
CURVE NO.	1
RADIUS	200.00'
ARC LENGTH	185.19'
TANGENT LENGTH	99.83'
CHORD LENGTH	178.64'
BEARING	S27°52'07"W
DELTA	53°03'06"
PC STA.	95+82.72
PI STA.	96+75.32
PT STA.	97+67.91
SUPERELEVATION	4%
	95+00 TO 98+00
TRANSITIONS	94+00 TO 95+00
	98+00 TO 99+00



IN: OAK FLY 020146.Dwg, 20146-TES.dwg
 Plotted: 4-27-06 @ 3.57cm, B1: 23.tbl
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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
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 Crystal Lake, Illinois 815.459.1800
 Burlington, Wisconsin 262.763.7834
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 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 847.223.5088
 Rockford, Illinois 815.499.1551
 Plainfield, Illinois 815.609.7425
 Consulting Engineers

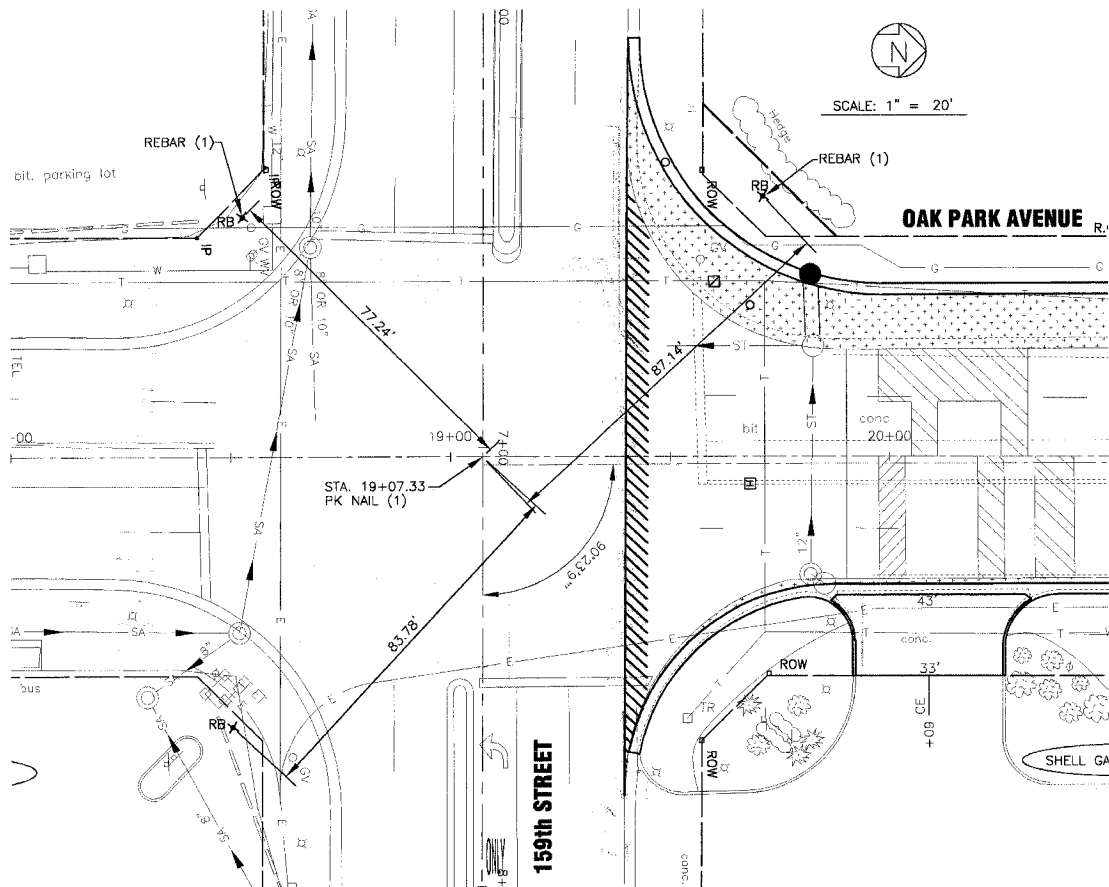
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

ALIGNMENT AND TIES
OAK PARK AVE. - 151ST STREET
AND JUSTAMERE ROAD

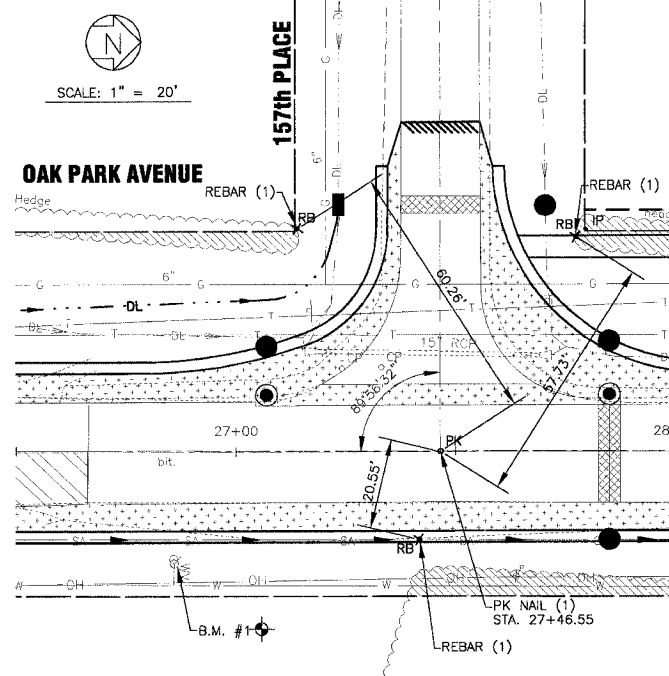
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DRAWN BY	UKB	PROJECT NO.	020146
CHECKED BY	LDH	SHEET NO.	17 OF 116
DATE	1-20-05		



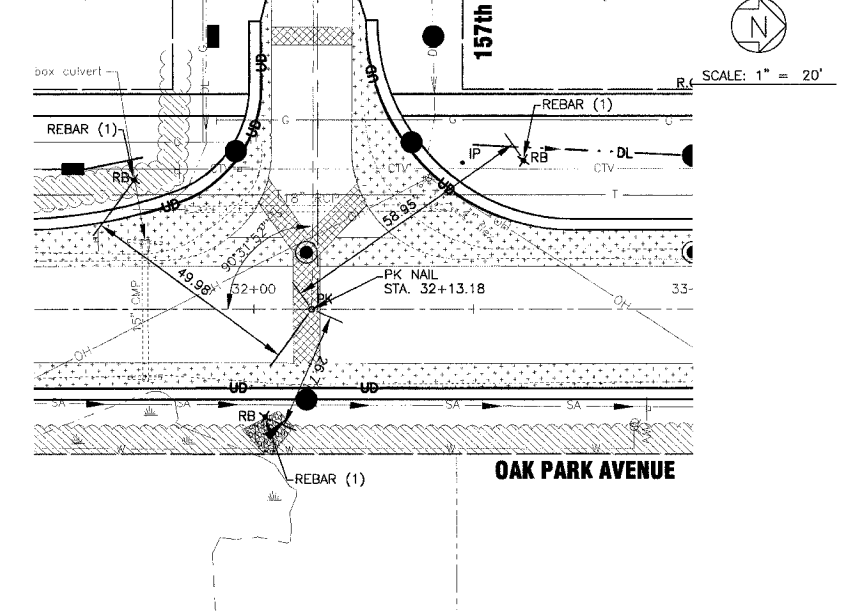
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	18
STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT CMM-7003 (750)
				CONTRACT NO. 83727



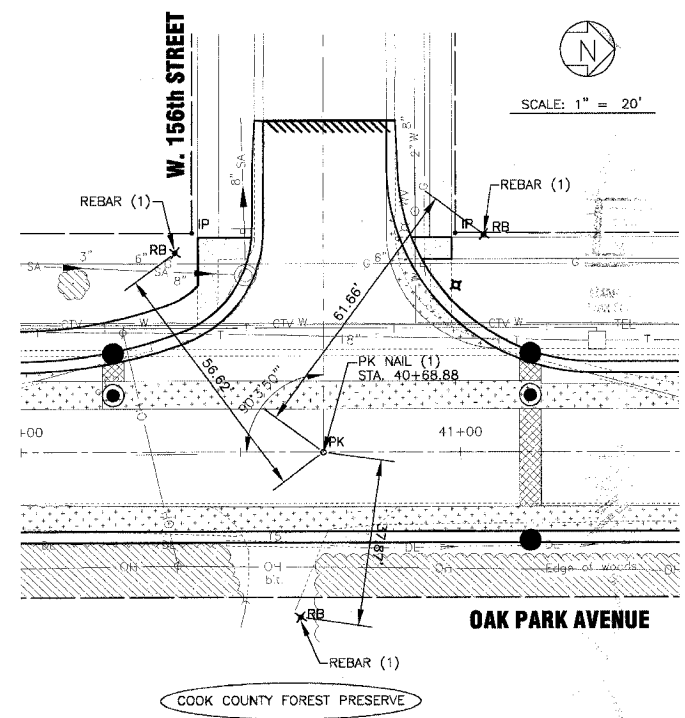
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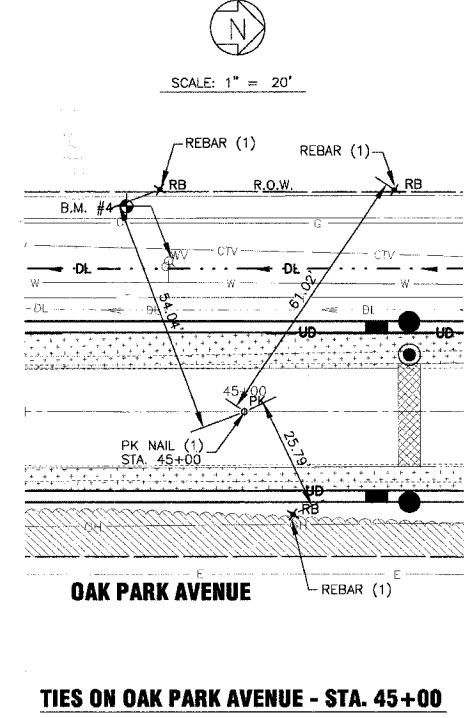
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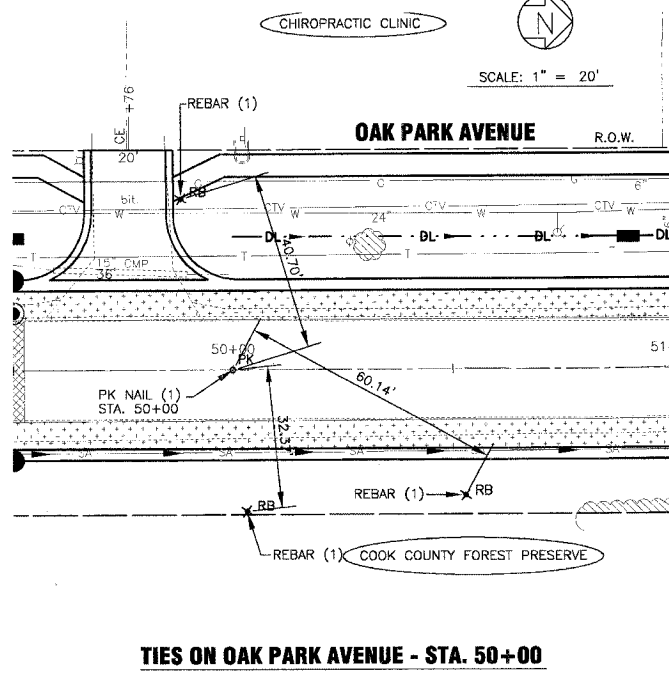
TIES ON OAK PARK AVENUE - STA. 32+13.18



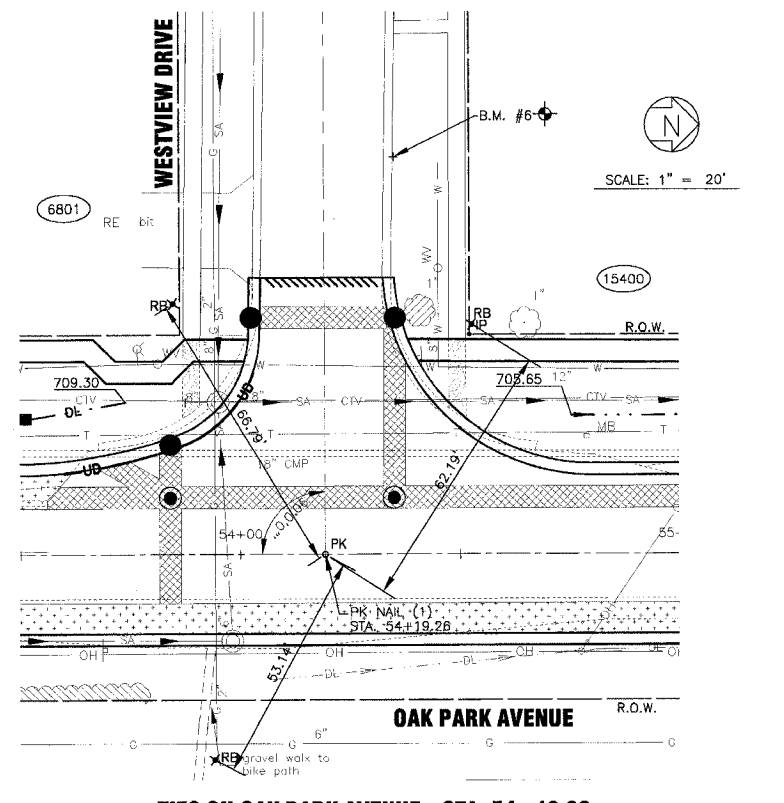
TIES ON OAK PARK AVENUE - STA. 40+68.88



TIES ON OAK PARK AVENUE - STA. 45+00



TIES ON OAK PARK AVENUE - STA. 50+00



TIES ON OAK PARK AVENUE - STA. 54+19.26

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
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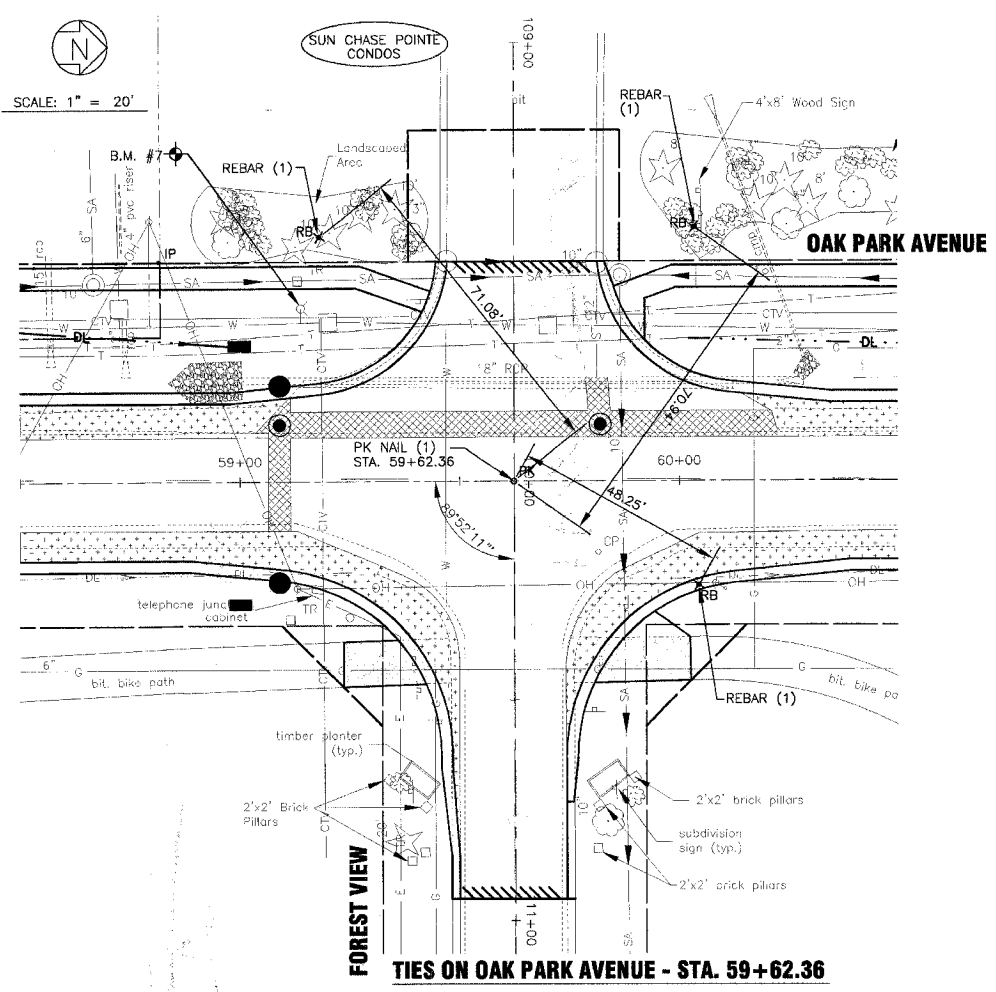
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

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 Consulting Engineers
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 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 Peoria, Illinois 815.787.3111
 Graylake, Illinois 847.263.5088
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7435

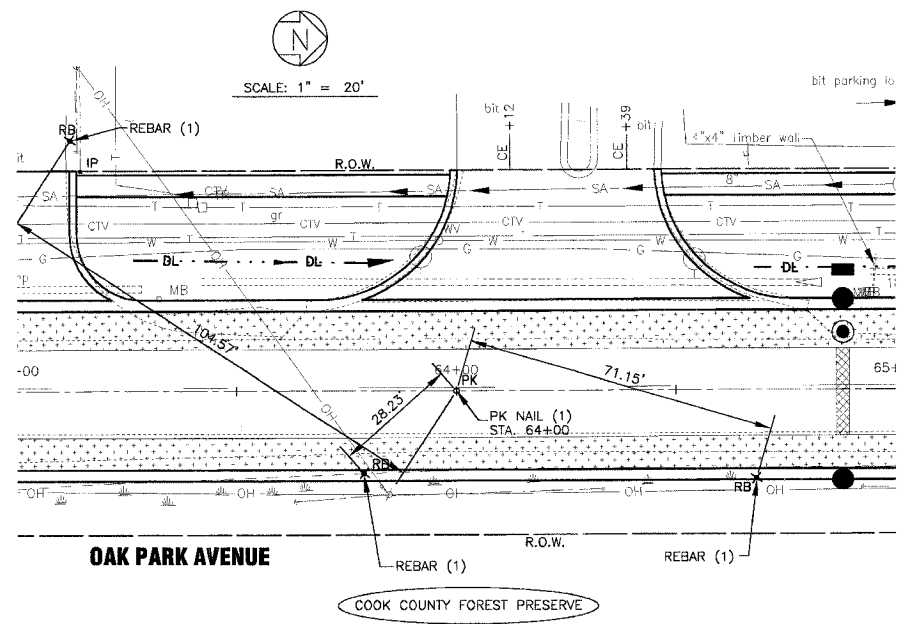
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
ALIGNMENT AND TIES

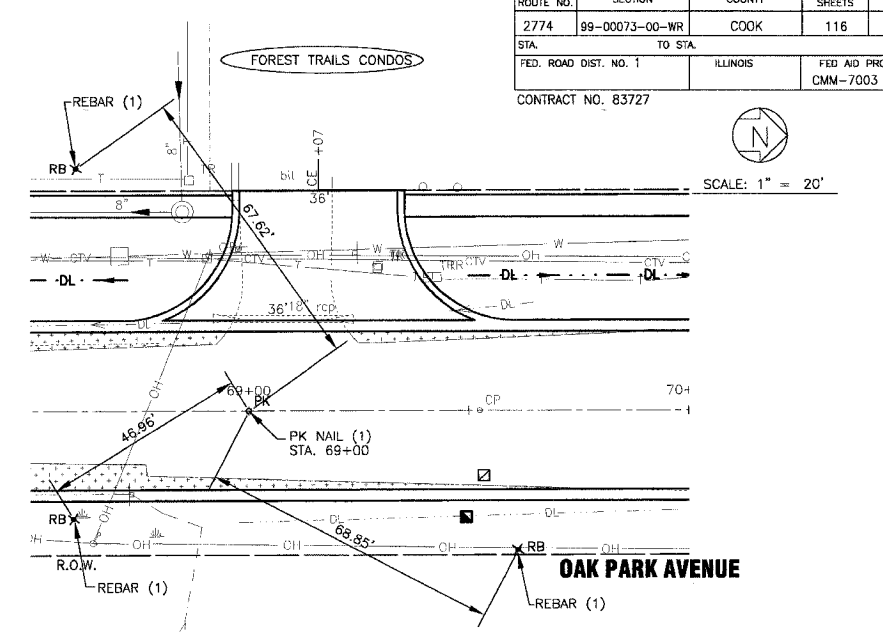
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DRAWN BY:	HORIZ: 1"=20'
CHECKED BY:	PROJECT NO:
DATE:	020146
	SHEET NO:
	18 OF 116



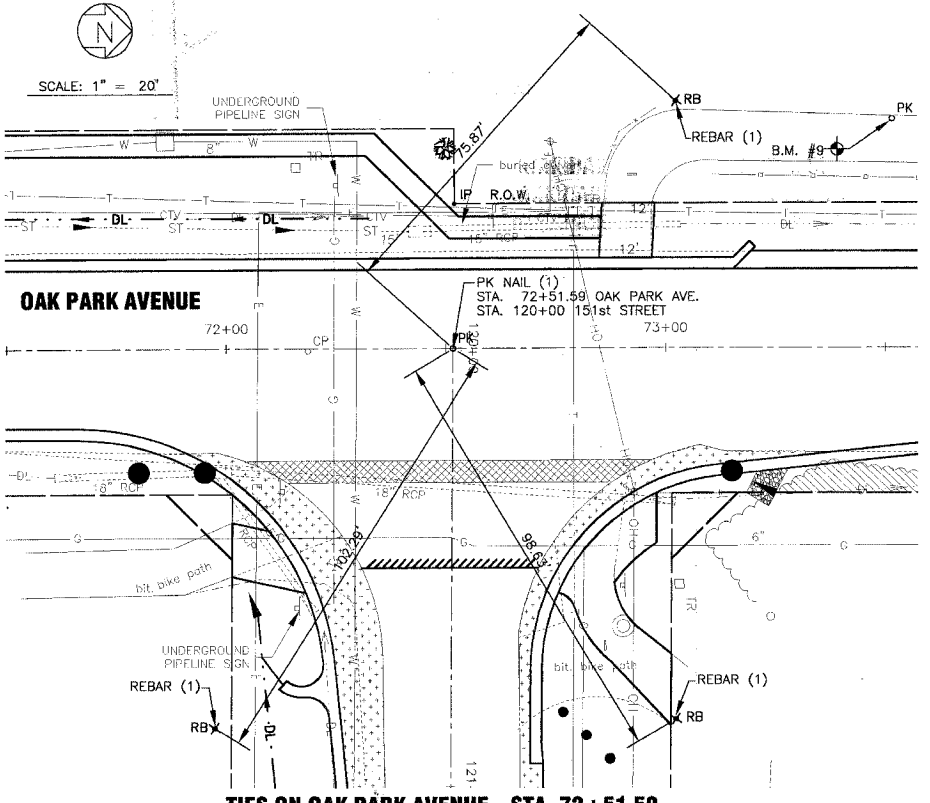
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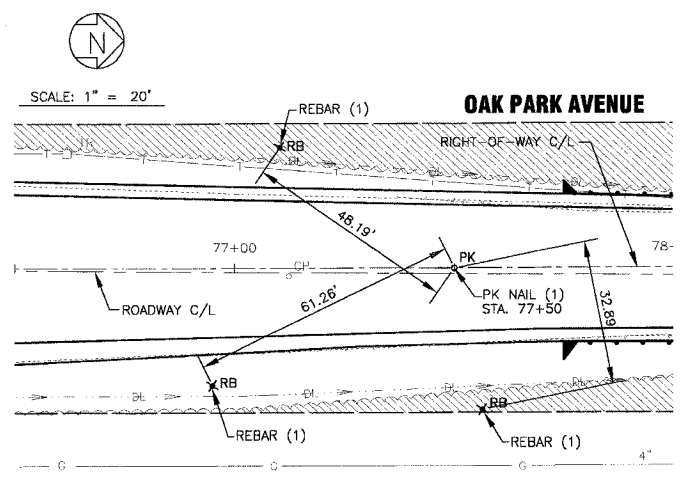
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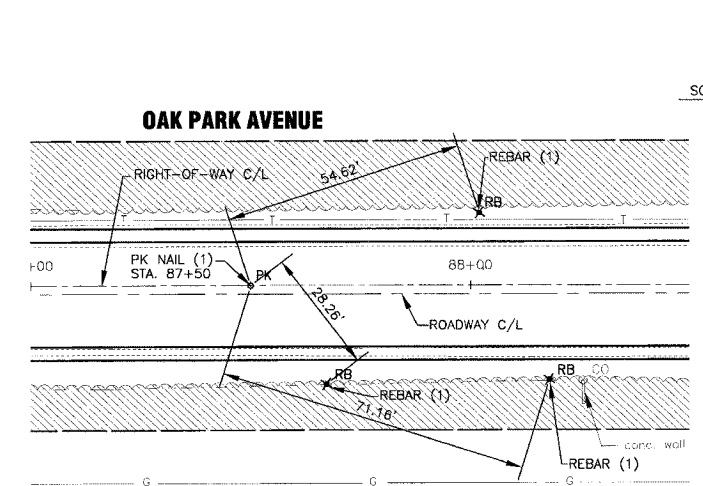
TIES ON OAK PARK AVENUE - STA. 69+00



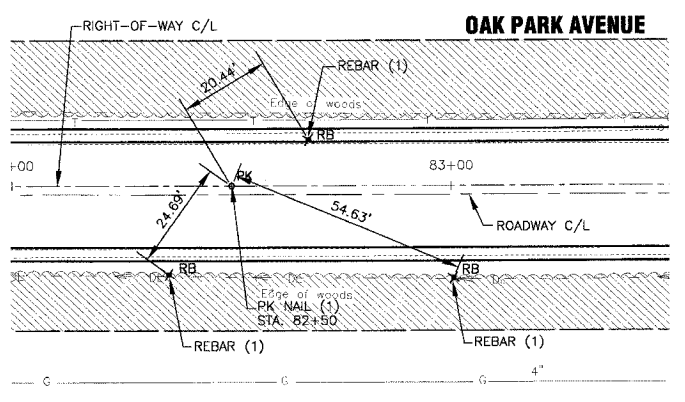
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TIES ON 151st STREET STA. 120+00



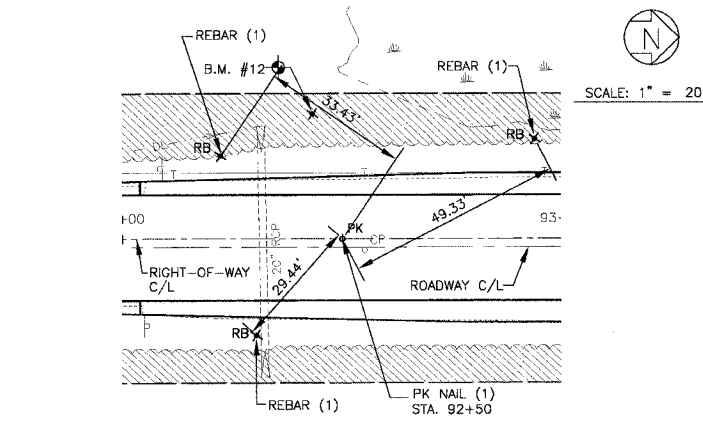
TIES ON OAK PARK AVENUE - STA. 77+50



TIES ON OAK PARK AVENUE - STA. 87+50



TIES ON OAK PARK AVENUE - STA. 82+50



TIES ON OAK PARK AVENUE - STA. 92+50

I:\020146\Draws\20146-TIES.dwg
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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER 100% AND 33% COUNTY COMMENTS

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BAXTER & WOODMAN
Consulting Engineers

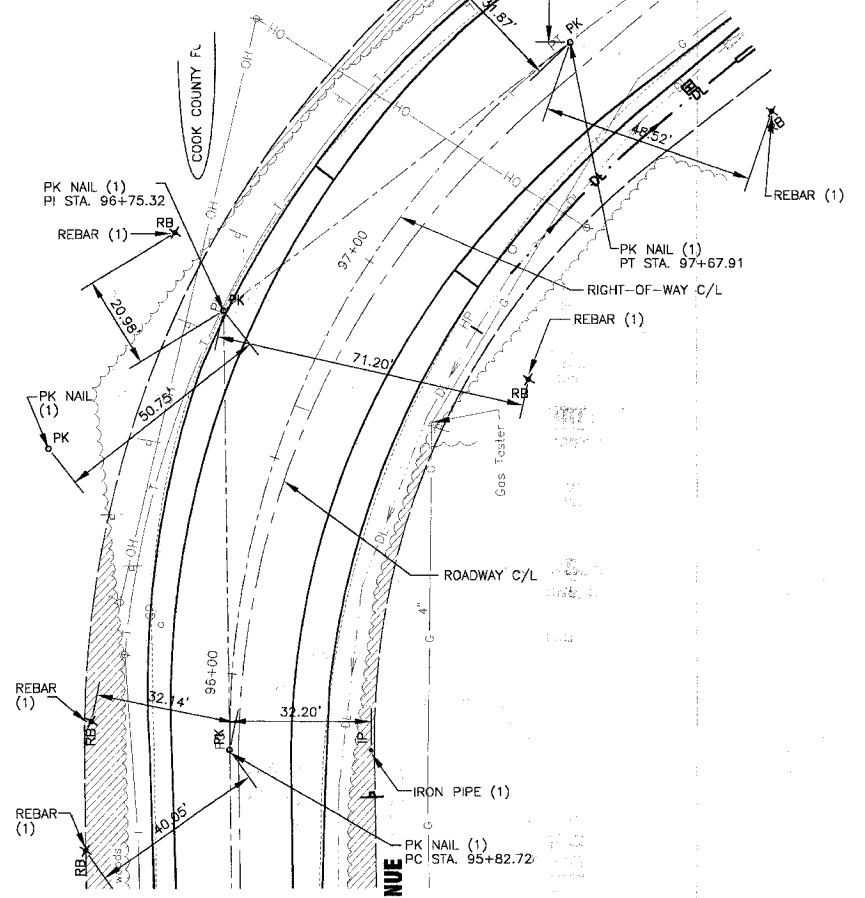
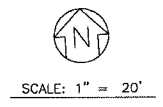
Baxter & Woodman
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Burlington, Wisconsin 262.283.7834
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
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Rockford, Illinois 815.498.1551
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
ALIGNMENT AND TIES

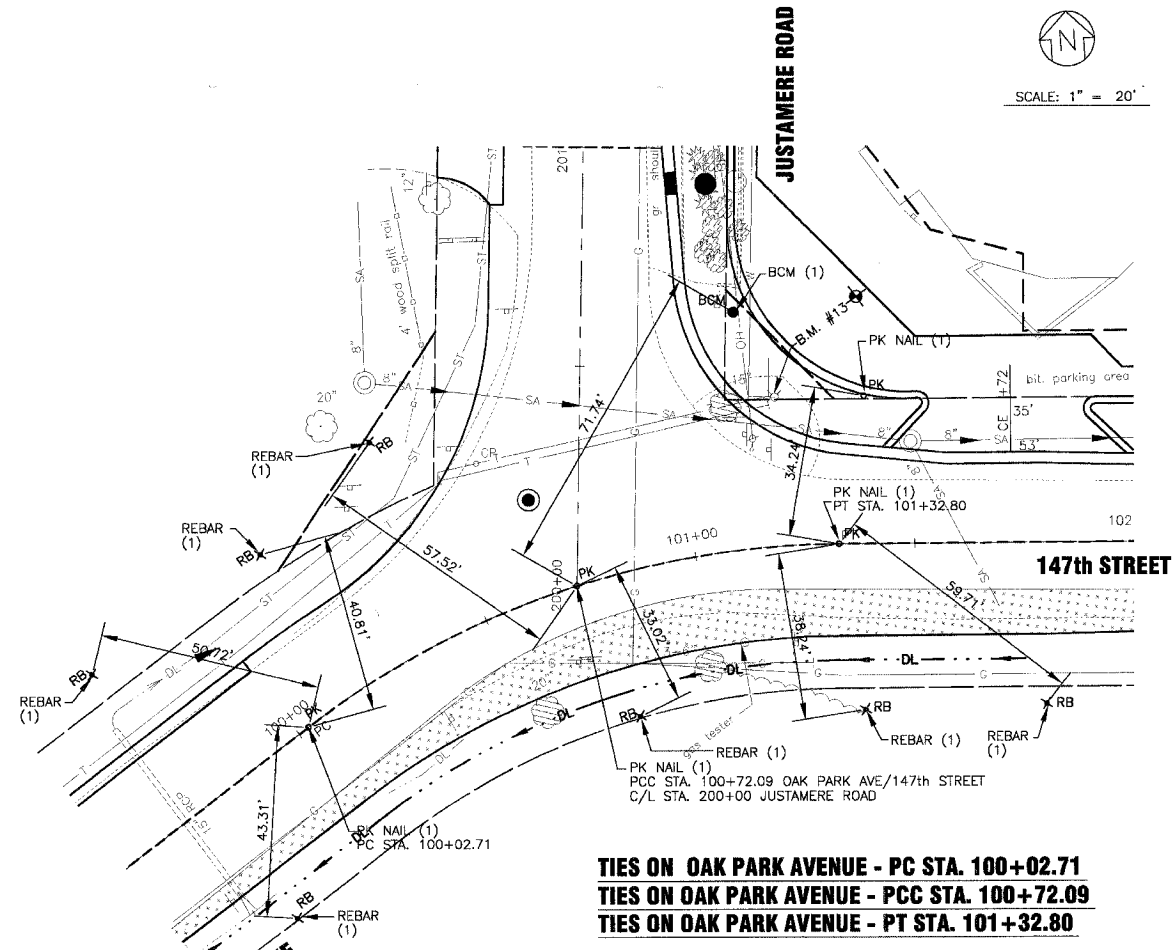
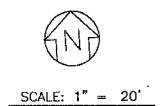
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DRAWN BY	UKB	PROJECT NO.	020146
CHECKED BY	LDH	SHEET NO.	19 OF 116
DATE	1-20-05		

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	20
STA. TO STA.	FED. ROAD DIST. NO. 1		ILLINOIS	
	FED. AID PROJECT		CMM-7003 (750)	
CONTRACT NO. 83727				

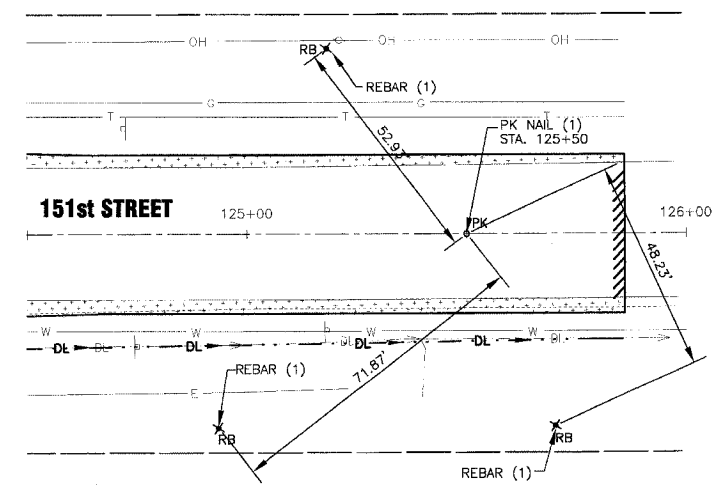
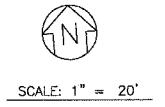


TIES ON OAK PARK AVENUE - PC STA. 95+82.72
TIES ON OAK PARK AVENUE - PI STA. 96+75.32
TIES ON OAK PARK AVENUE - PT STA. 97+67.91

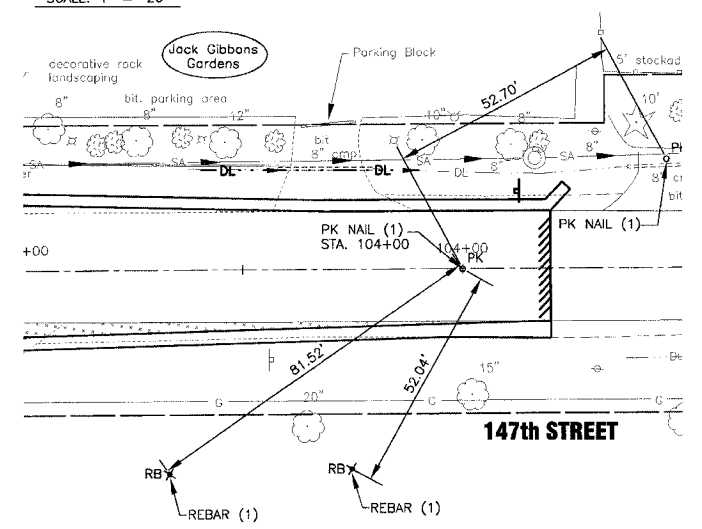
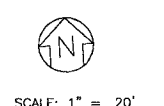
OAK PARK AVENUE



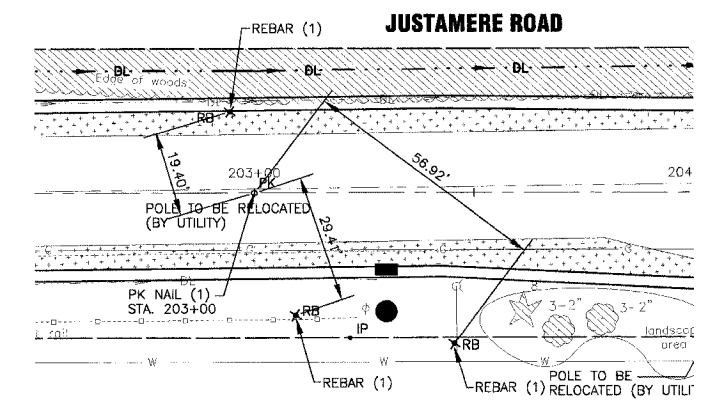
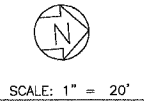
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TIES ON OAK PARK AVENUE - PT STA. 101+32.80



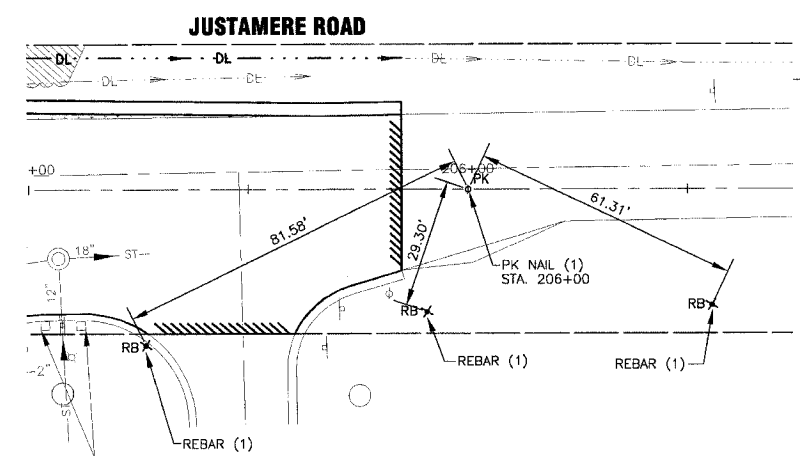
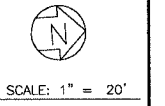
TIES ON 151st STREET - STA. 125+50



TIES ON 147th STREET - STA. 104+00



TIES ON JUSTAMERE ROAD - STA. 203+00



TIES ON JUSTAMERE ROAD - STA. 203+00

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 Crystal Lake, Illinois 815.469.1260
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 Graylake, Illinois 847.283.5088
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE - 147th STREET
JUSTAMERE ROAD AND 151st STREET
ALIGNMENT AND TIES

DESIGNED BY	SCALE	HORIZ: 1"=20'
NJP	PROJECT NO.	020146
DRAWN BY	CHECKED BY	SHEET NO.
UKB	LDH	20 OF 116
DATE	1-20-05	

GENERAL NOTES - ALL STAGES

- EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES WITHIN THE CONSTRUCTION WORK ZONE.
- THE CONTRACTOR SHALL PROVIDE A WRITTEN "SEQUENCE OF CONSTRUCTION" PLAN WITHIN 10 DAYS OF THE CONTRACT AWARD. THE PLAN SHALL PROVIDE IN DETAIL HOW THE PROPOSED UNDERGROUND UTILITIES WILL BE CONSTRUCTED WHILE MAINTAINING EXISTING STORM, SANITARY, AND WATER SERVICE. THE PLAN MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL TO CONSTRUCTION.
- THE SUGGESTED SEQUENCE OF CONSTRUCTION FOR INTERSECTION RECONSTRUCTION'S INTENT IS TO COMPLETE STAGE III WITH MINIMAL LOSS OF ACCESS TO LOCAL BUSINESSES AND RESIDENCES, AND TO ASSURE THAT NO TWO-WAY CLOSURES ARE IN PLACE DURING WINTER SHUTDOWN SEASON IN COMPLIANCE WITH THE PROSECUTION AND PROGRESS SPECIAL PROVISION OF THE CONTRACT. TWO-WAY TRAFFIC IS TO BE OPENED AND MAINTAINED AT ALL TIMES UPON COMPLETION OF STAGE III. ALL WORK NECESSARY TO COMPLY WITH THE INTENT OF THE PLAN IS CONSIDERED INCIDENTAL TO THE ITEM OF TRAFFIC CONTROL AND PROTECTION. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 442.04 OF THE STANDARD SPECIFICATIONS, AND WORK TO BE IN ACCORDANCE WITH APPLICABLE STANDARDS.
- FURNISHING, PLACEMENT, RELOCATION, AND REMOVAL OF ALL TRAFFIC SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION. ALL CONFLICTING SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER, AND SHALL BE INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 11' CLEAR ROADWAY PER DIRECTION OF TRAFFIC FLOW. INGRESS AND EGRESS TO DRIVEWAYS AND SIDE STREETS SHALL BE MAINTAINED AT ALL TIMES. THIS WORK SHALL BE INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION.
- ANY NECESSARY SHORT TERM ACTIVITY WHICH REQUIRES ENCROACHMENT INTO THE LANE(S) OPEN TO TRAFFIC SHALL BE RESTRICTED TO THE HOURS FROM 9:00 AM TO 3:00 PM. THESE CLOSURES SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS.
- THE MAINTENANCE OF THE SHOULDERS AND DRAINAGE FACILITIES SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION.
- TYPE B FLASHING LIGHTS CONFORMING TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION, SHALL BE PLACED ON EACH TYPE III BARRICADE.
- ADDITIONAL SIGNS, BARRICADES, DELINEATORS, PAVEMENT MARKINGS, OR OTHER TRAFFIC CONTROL AND PROTECTION ITEMS TO BE PLACED PER APPLICABLE STANDARDS AND AS DIRECTED BY THE ENGINEER.
- BARRICADE SPACINGS SHALL BE 50' C-C ON TANGENTS, 25' C-C ON ALL TAPERS/SHIFTS, AND 12' C-C ON RADII.
- CONTRACTOR TO PROVIDE TEMPORARY ACCESS FROM JUSTAMERE ROAD TO GIBBONS GARDEN RESTAURANT AND THE COOK COUNTY FOREST PRESERVE AT ALL TIMES.

SUGGESTED SEQUENCE OF CONSTRUCTION FOR INTERSECTION RECONSTRUCTION- STAGE I-PHASE 1

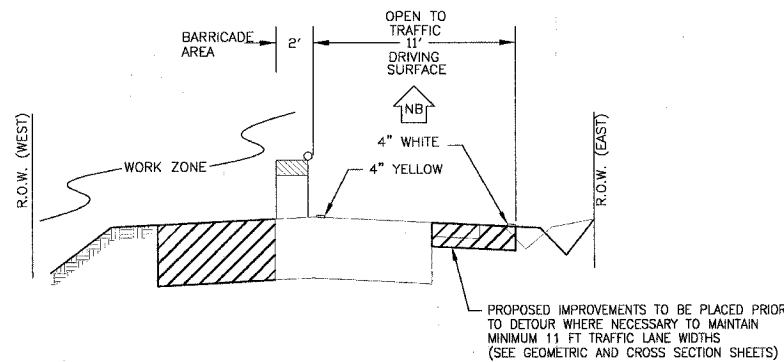
- PROVIDE TRAFFIC CONTROL AND PROTECTION. CONSTRUCTION OPERATIONS INVOLVING THE TEMPORARY CLOSING OF ROADS SHALL NOT BEGIN WITHOUT AT LEAST THREE DAYS PRIOR NOTICE TO THE CITY BY THE CONTRACTOR.
- PROVIDE ALL NECESSARY EROSION CONTROL.
- CONSTRUCT FULL DEPTH BITUMINOUS SHOULDER AND PAVEMENT WIDENING ON NORTHBOUND OAK PARK AVENUE AND EASTBOUND 147TH STREET BETWEEN STATIONS 99+00 AND 102+00 AS SHOWN ON CONSTRUCTION PLANS.
- PROVIDE TEMPORARY PAVEMENT MARKING FOR NORTHBOUND OAK PARK AVENUE AND EASTBOUND 147TH STREET.

SUGGESTED SEQUENCE OF CONSTRUCTION FOR INTERSECTION RECONSTRUCTION- STAGE I-PHASE 2

- PROVIDE TRAFFIC CONTROL AND PROTECTION. INSURE THAT THE DETOUR ROUTES ARE CLEARLY MARKED BEFORE CLOSING JUSTAMERE ROAD, SOUTHBOUND OAK PARK AVENUE, AND EASTBOUND 147TH STREET.
- PROVIDE ALL NECESSARY EROSION CONTROL.
- REMOVE EXISTING PAVEMENT FROM INTERSECTION BETWEEN STATIONS 99+00 AND 102+00 AS INDICATED IN PLANS.
- REDIRECT NORTHBOUND OAK PARK AVENUE TO SOUTHBOUND LANE OVER CULVERT. CONSTRUCT EAST SIDE OF CULVERT EXTENSION INCLUDING ROADWAY REPAIR AND SHOULDER.
- CONSTRUCT SIGNAL INFRASTRUCTURE, FOUNDATIONS, AND POSTS.

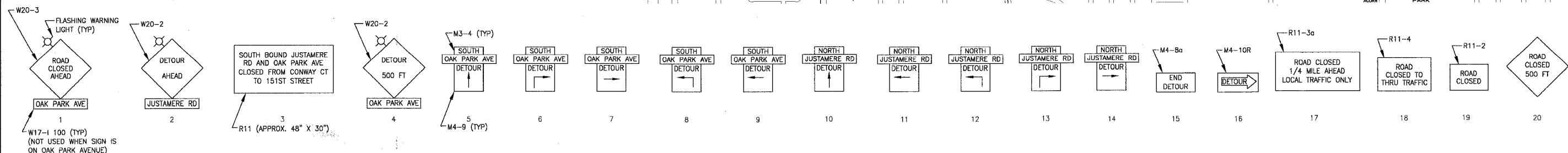
SUGGESTED SEQUENCE OF CONSTRUCTION FOR INTERSECTION RECONSTRUCTION- STAGE I-PHASE 3

- CONSTRUCT AGGREGATE SUBBASE, COMBINATION CONCRETE CURB AND GUTTER, BITUMINOUS BASE COURSE, AND BITUMINOUS CONCRETE BINDER COURSE FOR RECONSTRUCTION AREA.
- CONSTRUCT WEST EXTENSION OF BOX CULVERT.
- REMOVE OR RELOCATE (AS NECESSARY) THE TRAFFIC CONTROL AND PROTECTION AND DETOUR ROUTES, OPENING RECONSTRUCTED BINDER TO TRAFFIC.
- INSTALL TEMPORARY PAVEMENT MARKINGS.
- OPEN ROADS TO TRAFFIC.



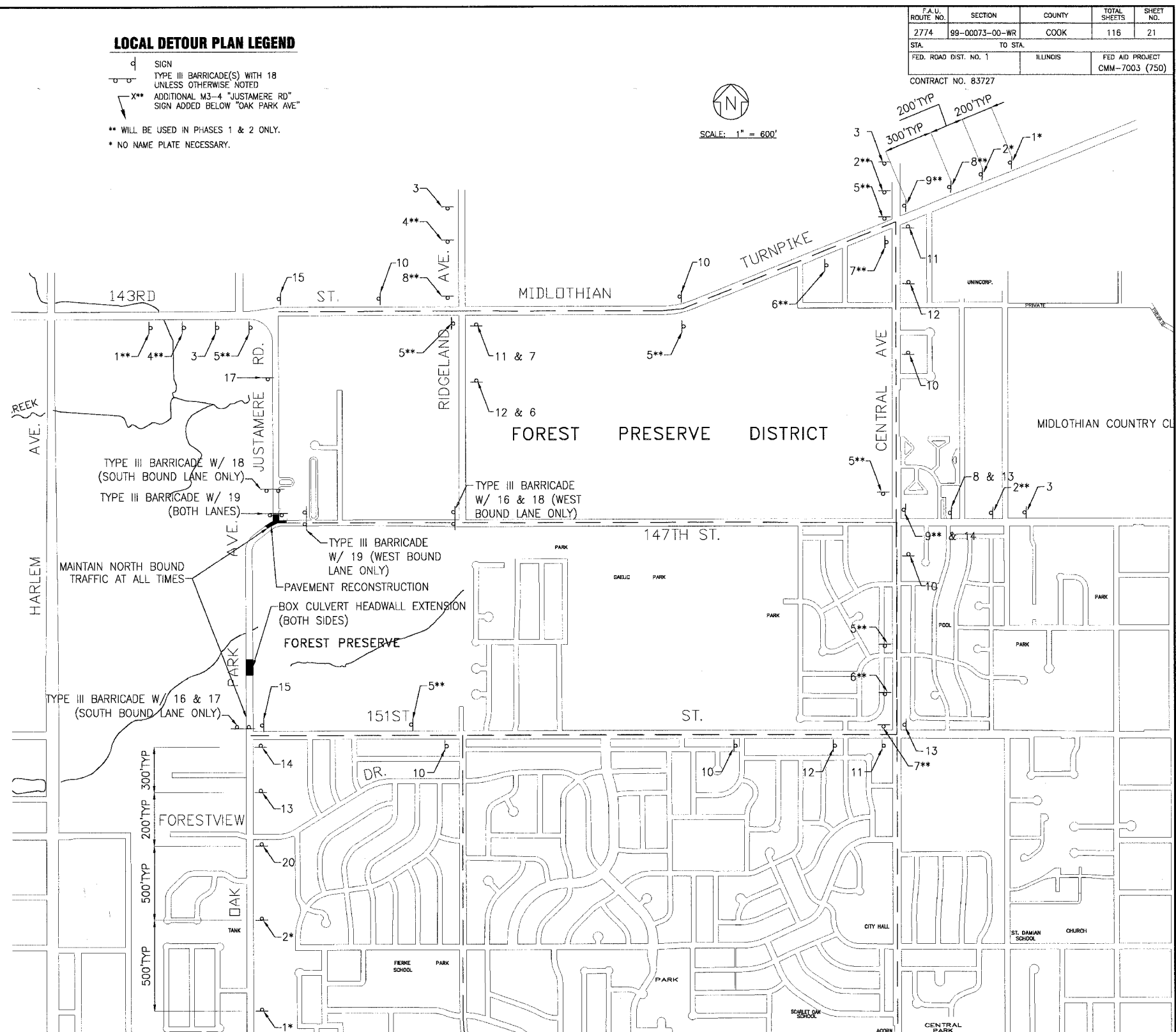
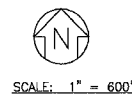
DETOUR SIGN DETAILS

(SEE LOCAL DETOUR PLAN FOR LOCATION)



LOCAL DETOUR PLAN LEGEND

- SIGN
- TYPE III BARRICADE(S) WITH 18 UNLESS OTHERWISE NOTED
- ✕** ADDITIONAL M3-4 "JUSTAMERE RD" SIGN ADDED BELOW "OAK PARK AVE"
- ** WILL BE USED IN PHASES 1 & 2 ONLY.
- * NO NAME PLATE NECESSARY.



F.A.L. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	21
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		CMM-7003 (750)

CONTRACT NO. 83727

I:\OAKFT\020146\DWG\20146-DETOUR-M3.dwg
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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
BAXTER & WOODMAN Consulting Engineers	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS

BAXTER & WOODMAN
 Consulting Engineers

Baxter & Woodman
 Crystal Lake, Illinois 815.459.1860
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.5090
 DeKalb, Illinois 815.787.3111
 Grayslake, Illinois 847.223.5088
 Foxford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

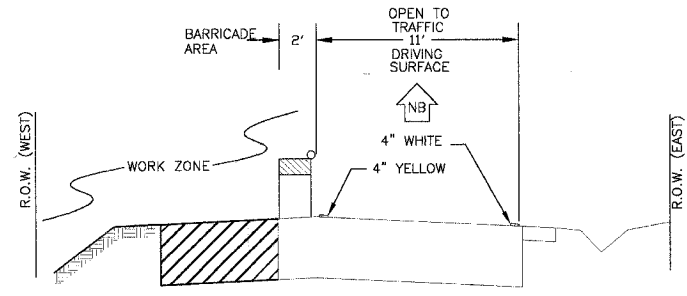
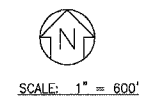
MAINTENANCE OF TRAFFIC
TEMPORARY DETOUR
STAGE I

DESIGNED BY	NJP	SCALE	NONE
DRAWN BY	NJP	PROJECT NO.	020146
CHECKED BY	NJP	SHEET NO.	21 OF 116
DATE	1-20-05		

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	21A
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				

LOCAL DETOUR PLAN LEGEND

- SIGN
- TYPE III BARRICADE(S) WITH 18 UNLESS OTHERWISE NOTED



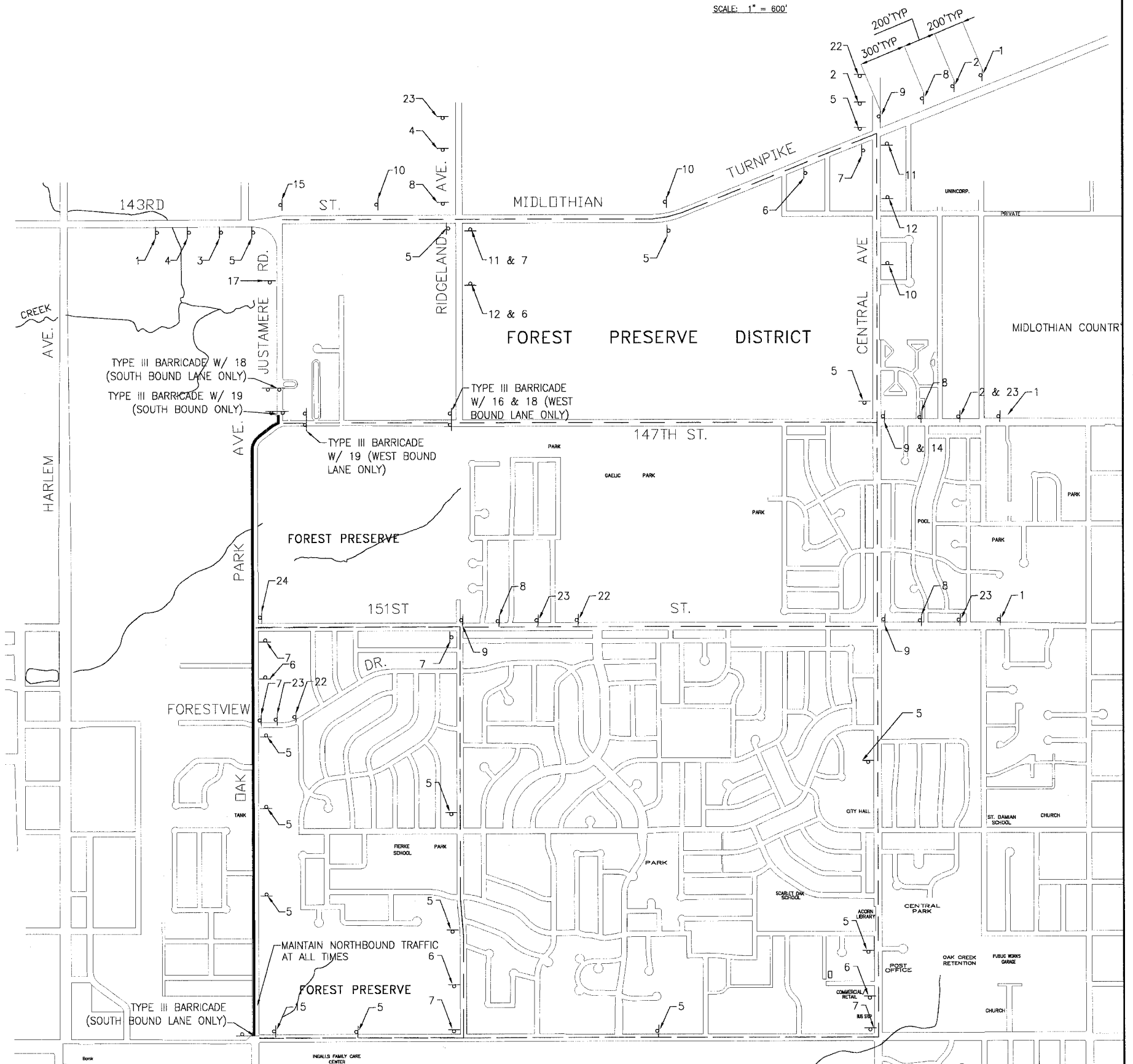
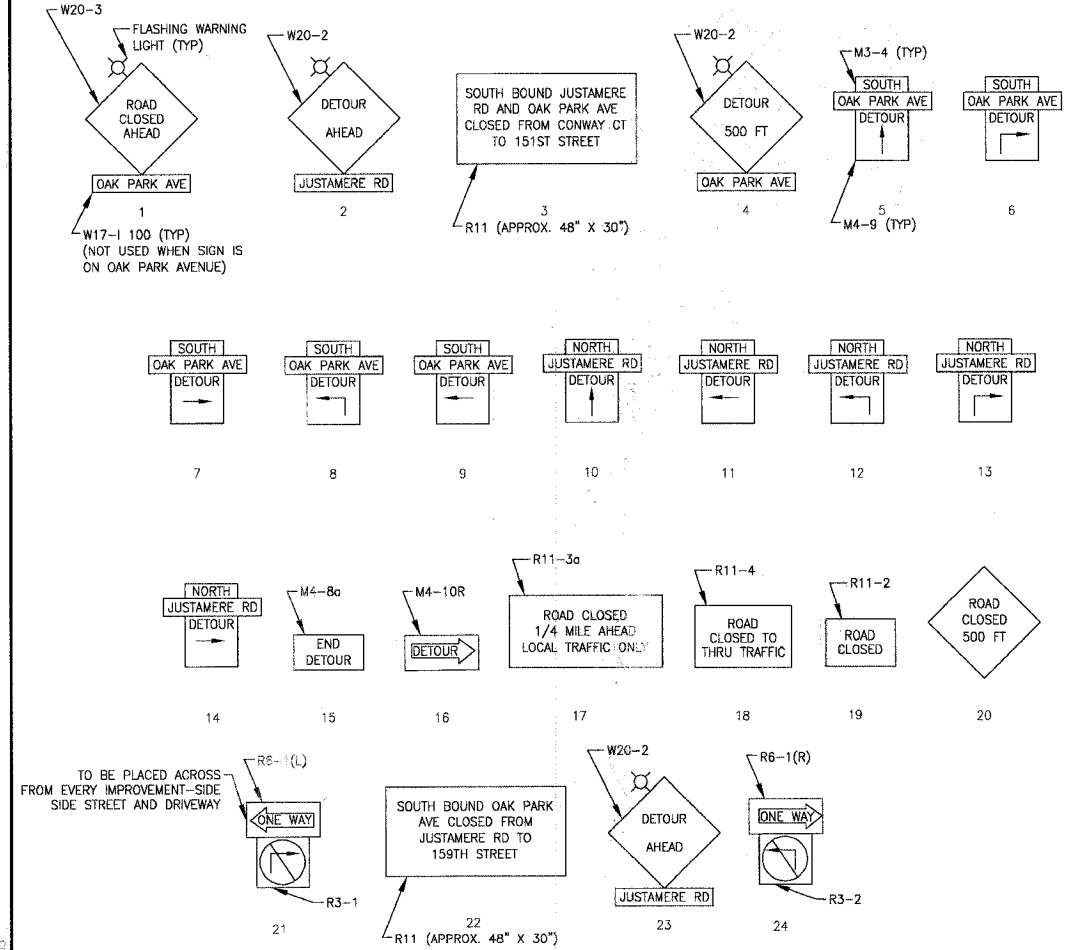
TYPICAL SECTION FOR TRAFFIC LANE

SUGGESTED SEQUENCE OF CONSTRUCTION STAGE 2

1. INSTALL TEMPORARY TRAFFIC SIGNALS.
2. PROVIDE TRAFFIC CONTROL AND PROTECTION. CONSTRUCTION OPERATIONS INVOLVING THE TEMPORARY CLOSURE OF ROADS SHALL NOT BEGIN WITHOUT AT LEAST THREE DAYS PRIOR NOTICE TO THE CITY BY THE CONTRACTOR. NORTHBOUND TRAFFIC SHALL REMAIN OPEN; SOUTHBOUND TRAFFIC SHALL BE DETOURED.
2. ASSURE ALL NECESSARY EROSION CONTROL IS IN PLACE.
3. CONSTRUCT MAINLINE, OUTLET, AND HALF OF LATERAL STORM SEWER, AND WEST PAVEMENT PATCHING AND WIDENING IMPROVEMENTS.

DETOUR SIGN DETAILS

(SEE LOCAL DETOUR PLAN FOR LOCATION)
NOTE: W17-1 100 ROAD NAME SIGN NOT USED WHEN ON CLOSURE ROUTE



\\Bville\sw\BFA\OAK\2014\6\DWG\2014-DETOUR-MAP.dwg
 Plot Date: 6/21/14 10:55:54 AM
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CONSULTANT	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER CITY AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
Consulting Engineers

Baxter & Woodman
Crystal Lake, Illinois 815.459.1260
Burlington, Wisconsin 262.763.7834
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Caryville, Illinois 947.223.5088
Rockford, Illinois 815.488.1551
Plazafield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

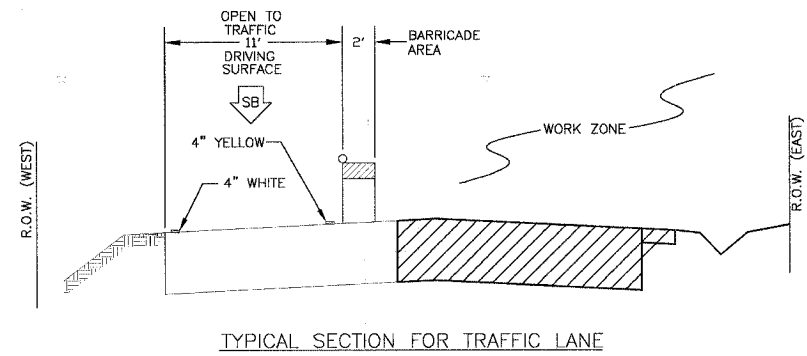
MAINTENANCE OF TRAFFIC
TEMPORARY DETOUR
STAGE 2

DESIGNED BY	NJP	SCALE	NONE
DRAWN BY	NJP	PROJECT NO.	020146
CHECKED BY	NJP	SHEET NO.	
DATE	1-20-05		

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	21B
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				

LOCAL DETOUR PLAN LEGEND

- SIGN
- TYPE III BARRICADE(S) WITH 18 UNLESS OTHERWISE NOTED

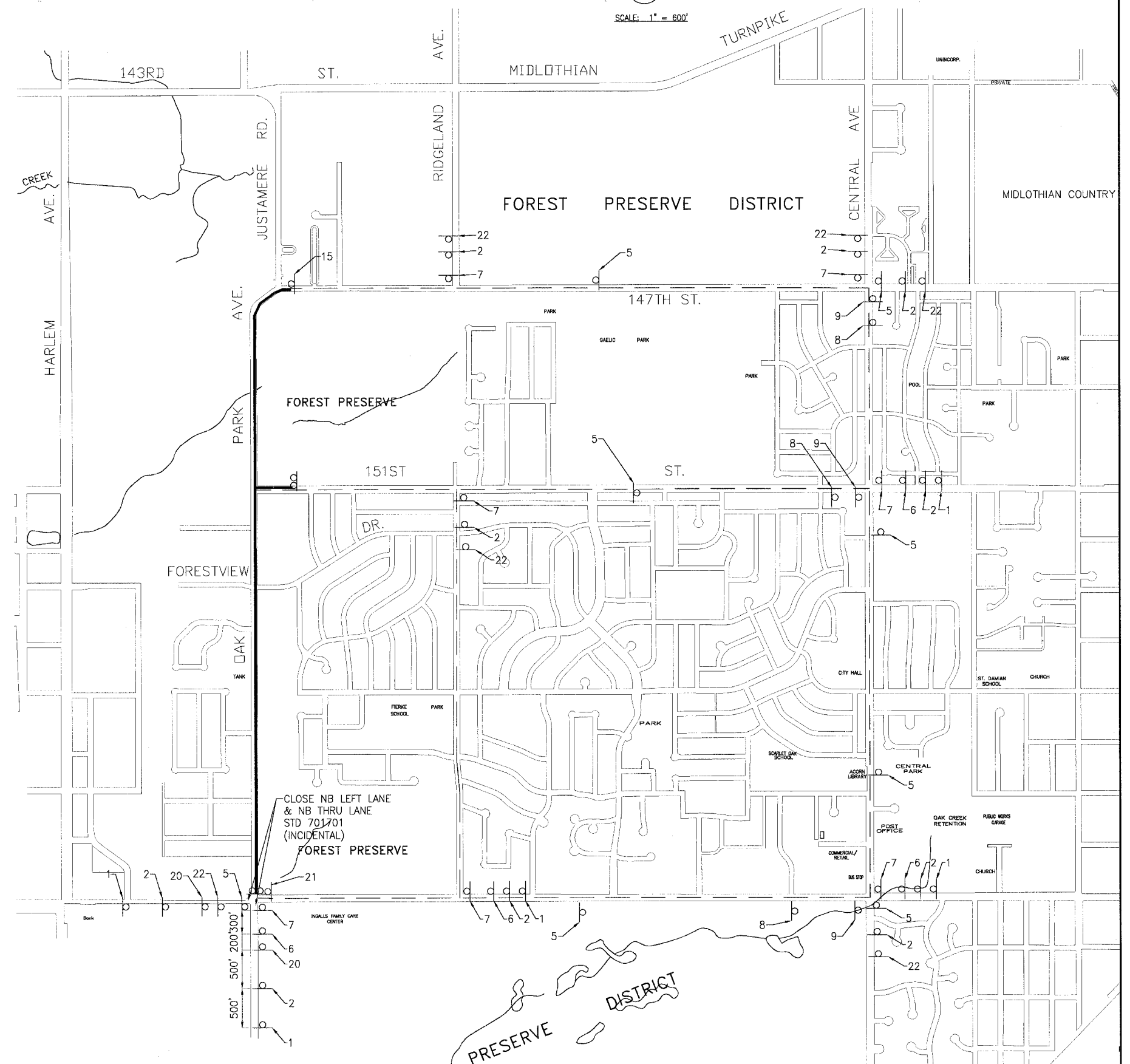
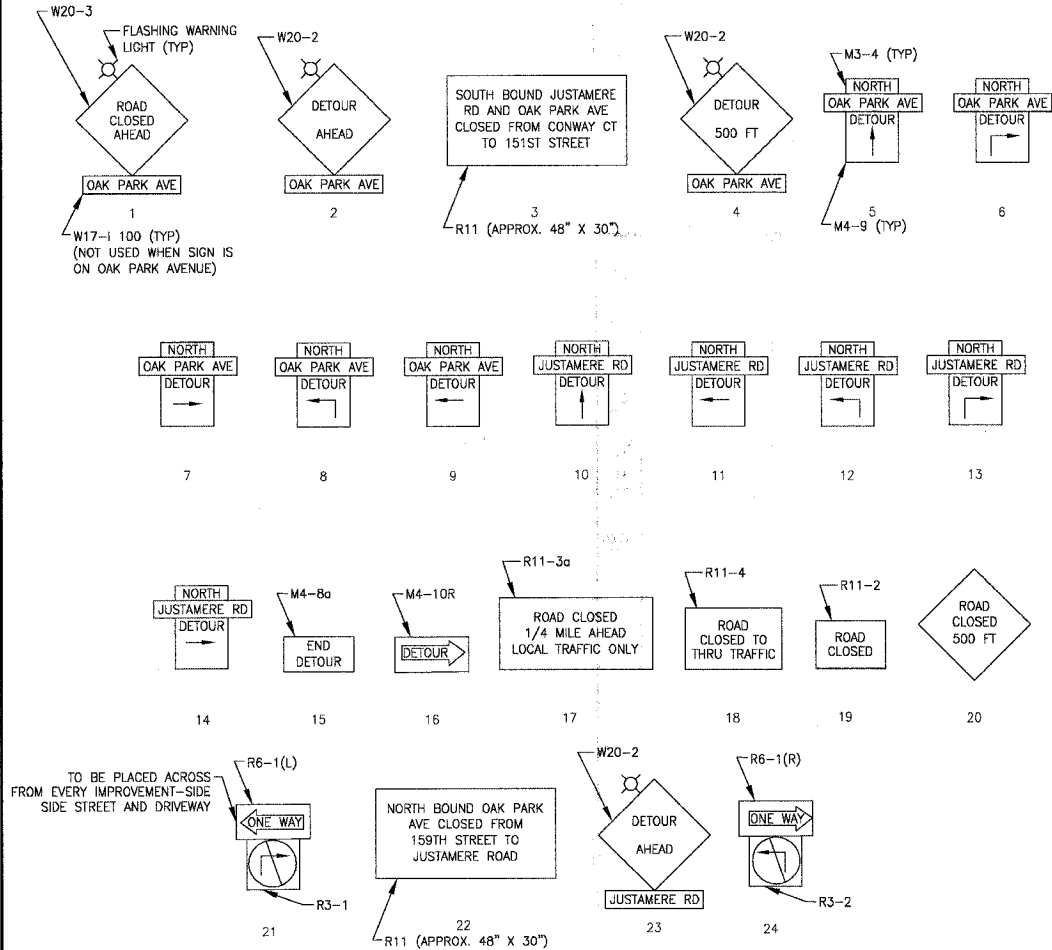


SUGGESTED SEQUENCE OF CONSTRUCTION STAGE 3

1. PROVIDE TRAFFIC CONTROL AND PROTECTION. CONSTRUCTION OPERATIONS INVOLVING THE TEMPORARY CLOSURE OF ROADS SHALL NOT BEGIN WITHOUT AT LEAST THREE DAYS PRIOR NOTICE TO THE CITY BY THE CONTRACTOR. SOUTH BOUND TRAFFIC SHALL REMAIN OPEN; SOUTHBOUND TRAFFIC SHALL BE DETOURED.
2. CONSTRUCT REMAINING STORM SEWER, AND EAST PAVEMENT PATCHING AND WIDENING IMPROVEMENTS.
3. INSTALL PERMANENT TRAFFIC SIGNALS.
4. CONSTRUCT FINAL PAVEMENT SURFACING AND RESTORATION IN WORK ZONES.
5. PLACE TEMPORARY PAVEMENT MARKINGS AND OPEN TO TRAFFIC.
6. CONSTRUCT FINAL PAVEMENT SURFACING, PAVEMENT MARKINGS AND RESTORATION UNDER TRAFFIC.

DETOUR SIGN DETAILS

(SEE LOCAL DETOUR PLAN FOR LOCATION)
NOTE: W17-1 100 ROAD NAME SIGN NOT USED WHEN ON CLOSURE ROUTE



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-26-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
Consulting Engineers

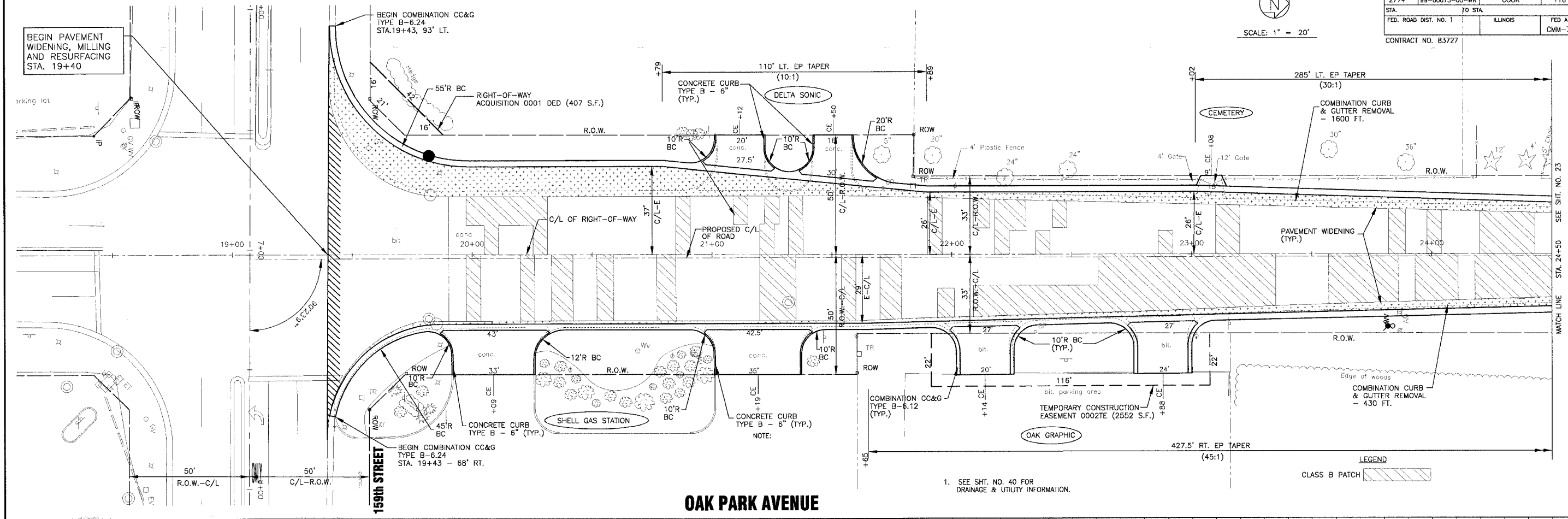
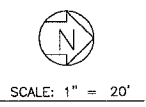
Baxter & Woodman
Crystal Lake, Illinois 815.459.1260
Burlington, Wisconsin 262.763.7894
Mokena, Illinois 708.478.3090
DeKalb, Illinois 815.787.3111
Graylake, Illinois 815.253.0089
Rockford, Illinois 815.489.1551
Huntley, Illinois 815.809.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

MAINTENANCE OF TRAFFIC
TEMPORARY DETOUR
STAGE 3

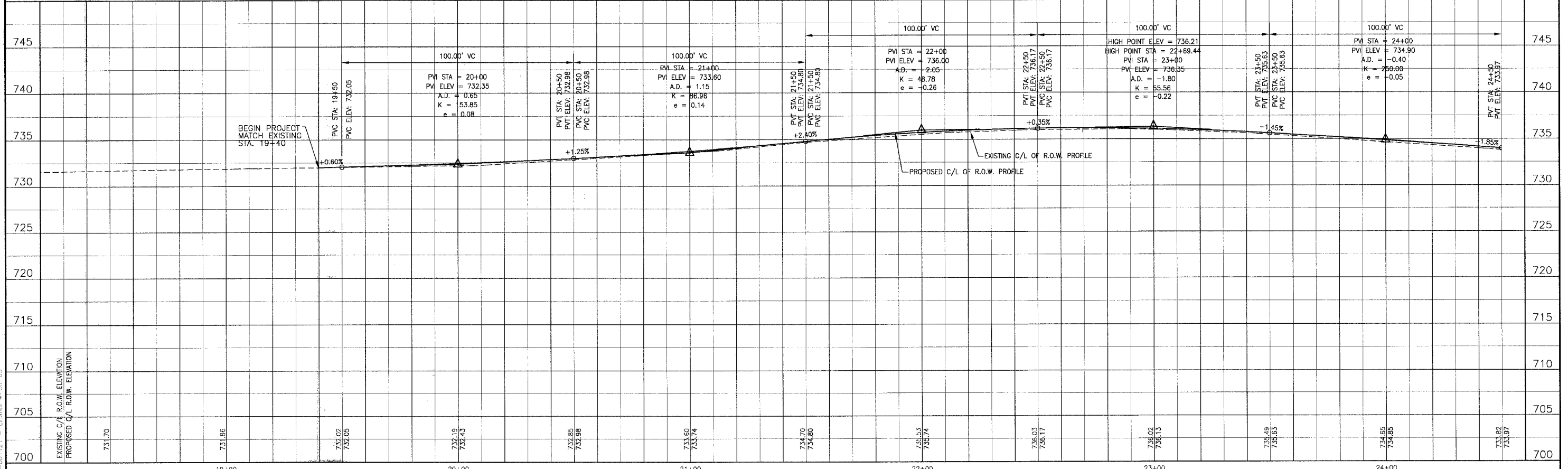
DESIGNED BY	NJP	SCALE	NONE
DRAWN BY	NJP	PROJECT NO.	020146
CHECKED BY	NJP	SHEET NO.	
NJP DATE	1-20-05	21B OF 116	

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	22
STA.	TO STA.	ILLINOIS	FED AID PROJECT	
FED. ROAD DIST. NO. 1			CMM-7003 (750)	
CONTRACT NO. 83727				



OAK PARK AVENUE

1. SEE SHIT. NO. 40 FOR DRAINAGE & UTILITY INFORMATION.



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REV. NO.	DATE	DESCRIPTION
1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

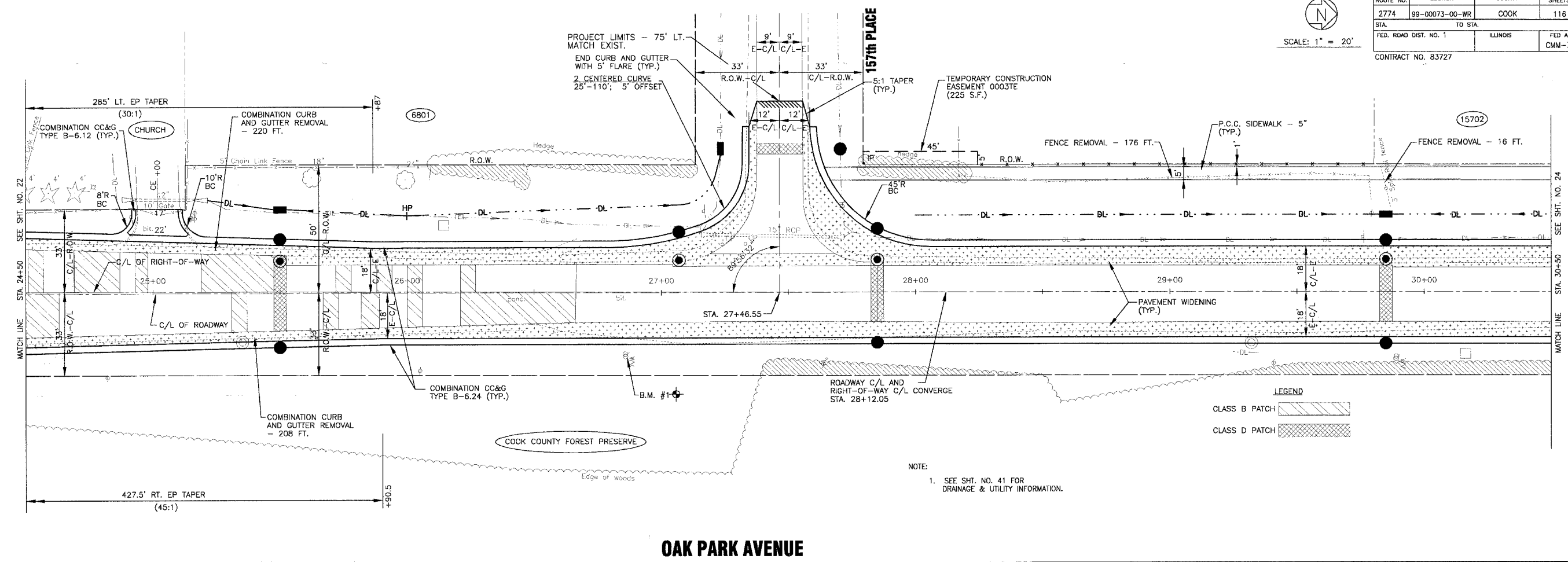
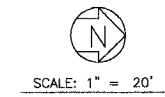
BAKTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.458.1200
 Burlington, Wisconsin 262.763.7634
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 815.233.3688
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

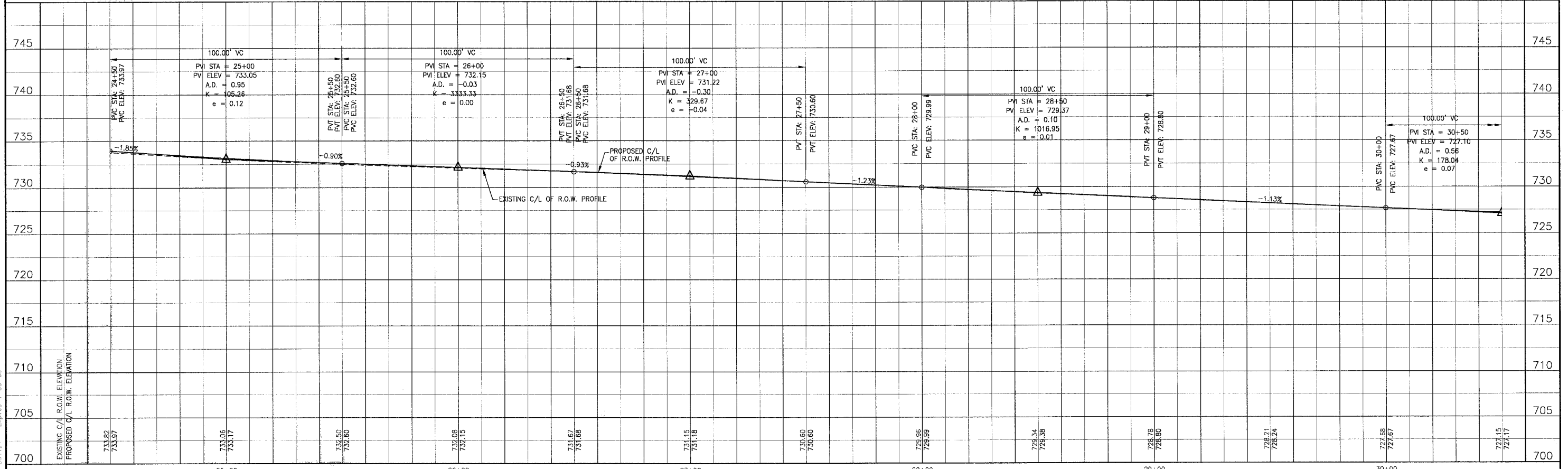
OAK PARK AVENUE
STA. 18+25 TO STA. 24+50
GEOMETRIC PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5'
DRAWN BY LUKB	HORIZ: 1"=20'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 22 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	23
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT CMM-7003 (750)		
CONTRACT NO. 83727				



OAK PARK AVENUE



CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.458.1260
 Burlington, Wisconsin 262.763.7894
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 847.323.5089
 Rockford, Illinois 815.489.1651
 Maitland, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

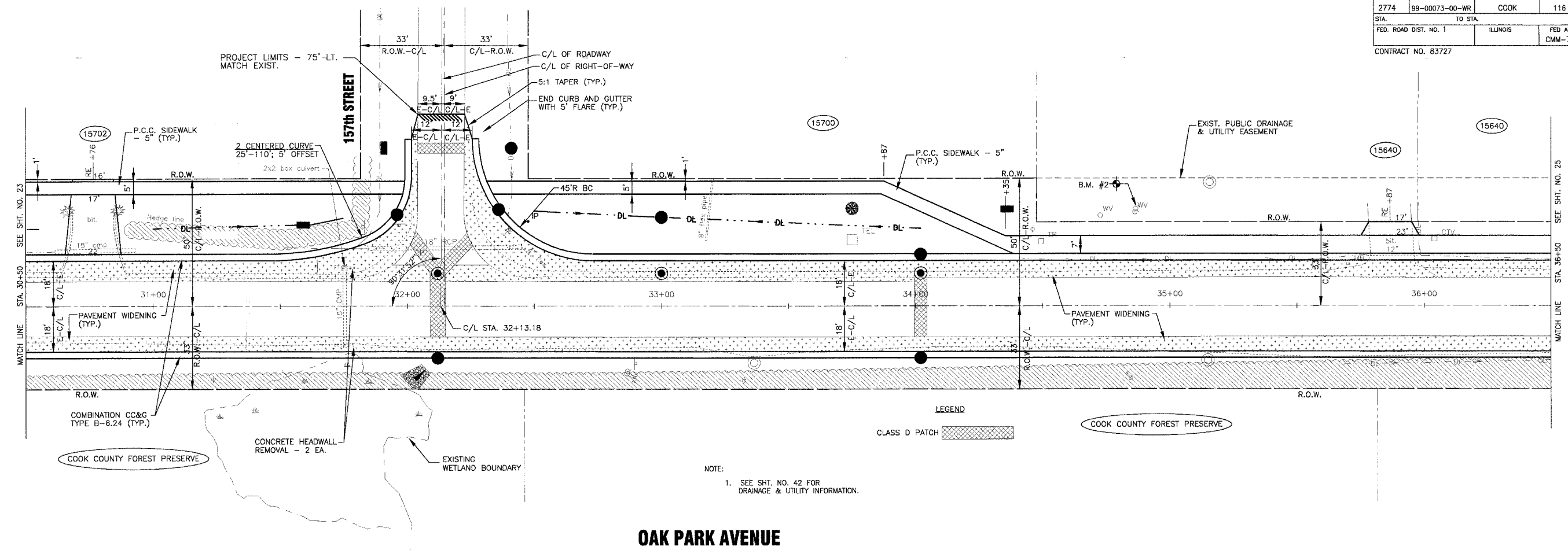
OAK PARK AVENUE
STA. 24+50 TO STA. 30+50
GEOMETRIC PLAN

DESIGNED BY: NJP
 DRAWN BY: LKB
 CHECKED BY: NJP
 DATE: 1-20-05

SCALE VERT: 1"=5'
 HORIZ: 1"=20'

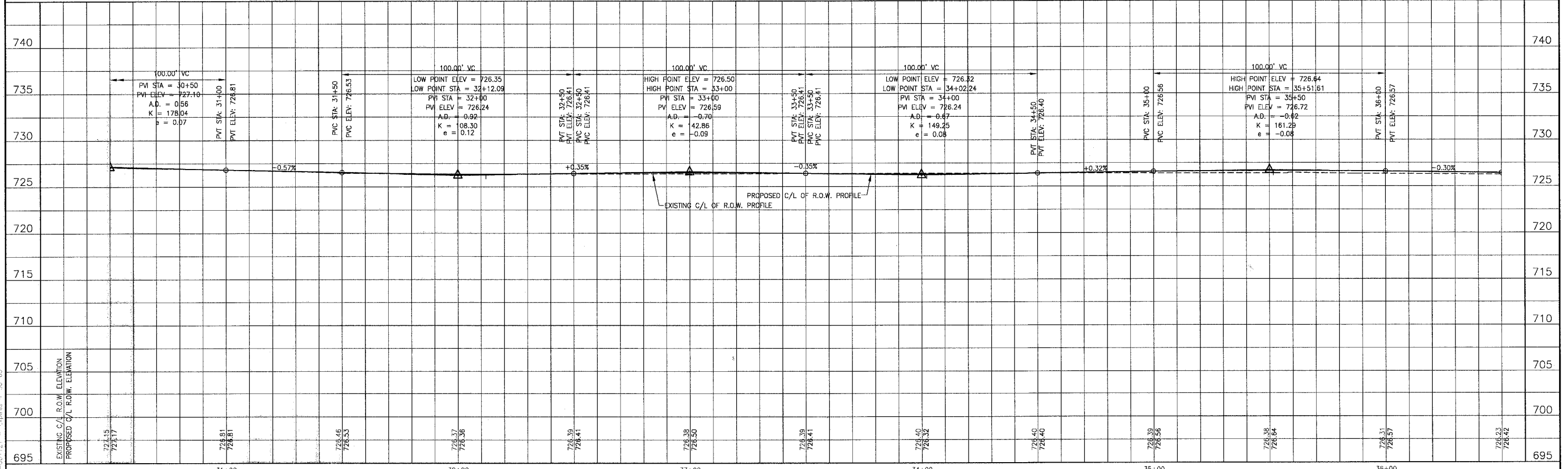
PROJECT NO.: 020146
 SHEET NO.: 23 OF 116

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NOTE:
1. SEE SHT. NO. 42 FOR DRAINAGE & UTILITY INFORMATION.

OAK PARK AVENUE



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER 1507 AND COOK COUNTY COMMENTS

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BAXTER & WOODMAN
Consulting Engineers

Baxter & Woodman
Crystal Lake, Illinois 815.488.1269
Burlington, Wisconsin 262.763.7634
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Grayslake, Illinois 815.283.5088
Rockford, Illinois 815.488.1557
Plainfield, Illinois 815.609.7455

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

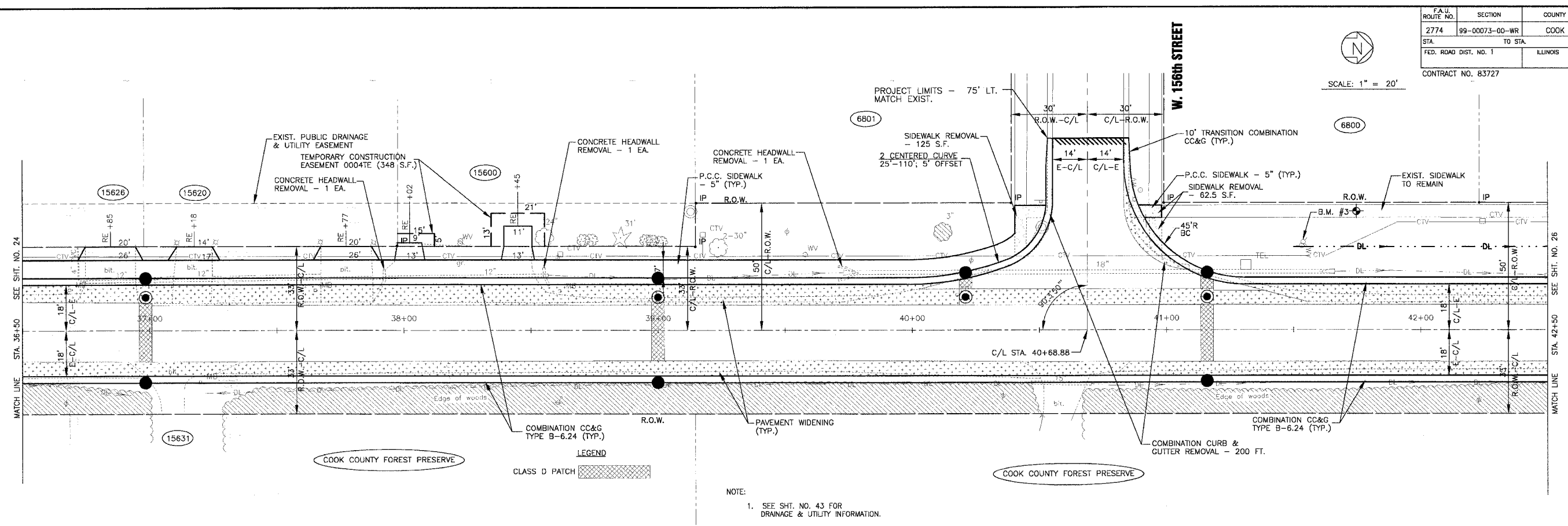
OAK PARK AVENUE
STA. 30+50 TO STA. 36+50
GEOMETRIC PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5' HORIZ: 1"=20'
DRAWN BY LKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO. 24 OF 116
DATE 1-20-05	

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	25
STA. TO STA.	FED. ROAD DIST. NO. 1		ILLINOIS	
	CONTRACT NO. 83727		FED AID PROJECT CMM-7003 (750)	

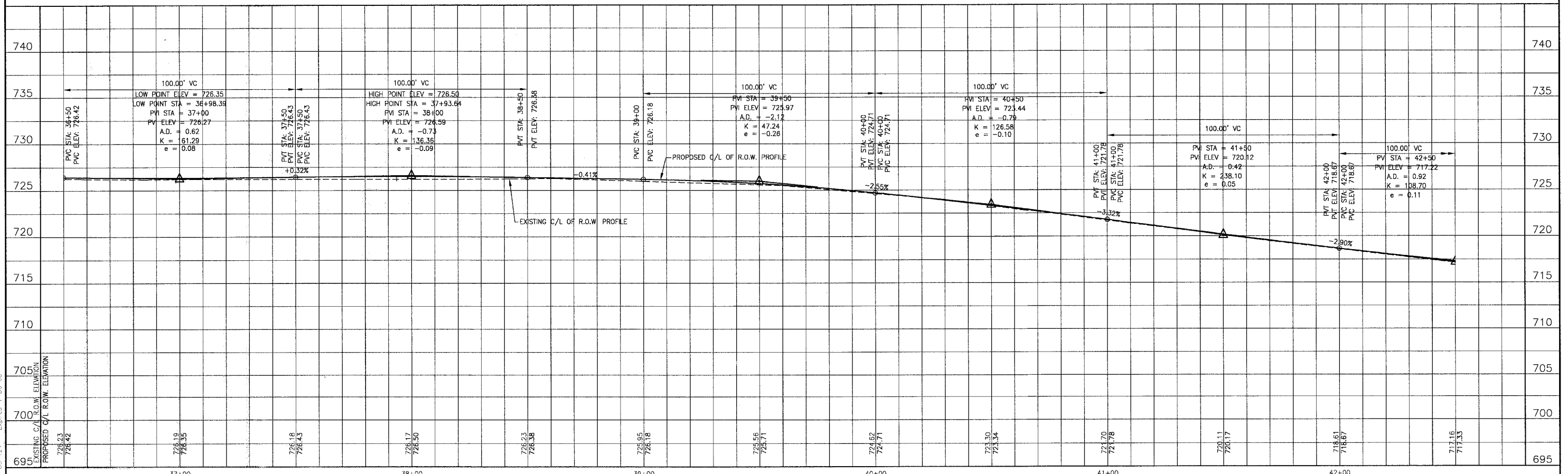


SCALE: 1" = 20'



OAK PARK AVENUE

NOTE:
1. SEE SHT. NO. 43 FOR DRAINAGE & UTILITY INFORMATION.



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REV. NO.	DATE	DESCRIPTION
1	4-28-06	PER DOT AND COOK COUNTY COMMENTS

BAKTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.458.1260
 Burlington, Wisconsin 262.762.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 847.233.5088
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

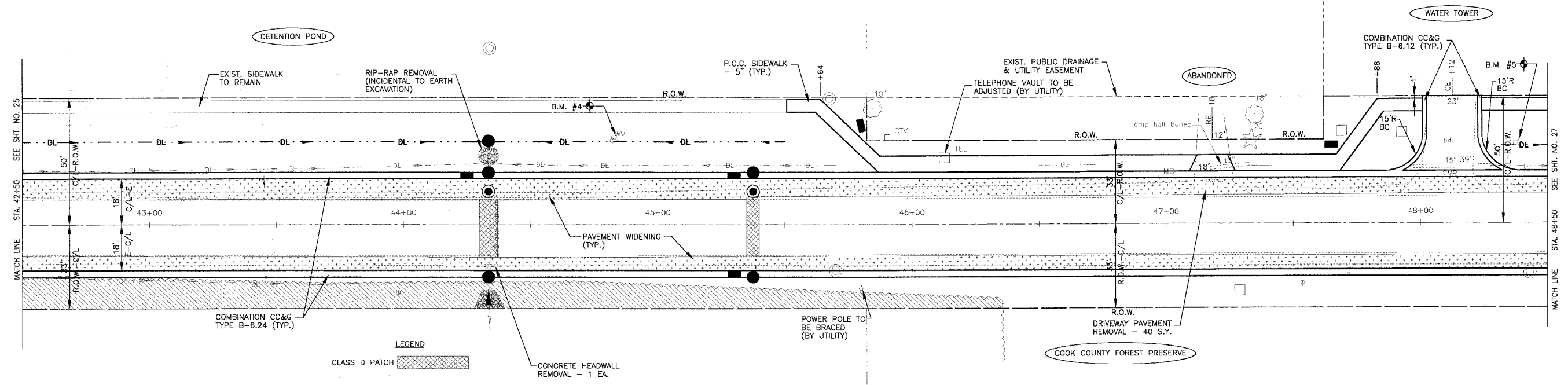
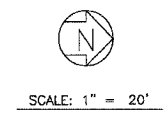
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 36+50 TO STA. 42+50
GEOMETRIC PLAN

DESIGNED BY: NJP
 DRAWN BY: UKB
 CHECKED BY: NJP
 DATE: 1-20-05

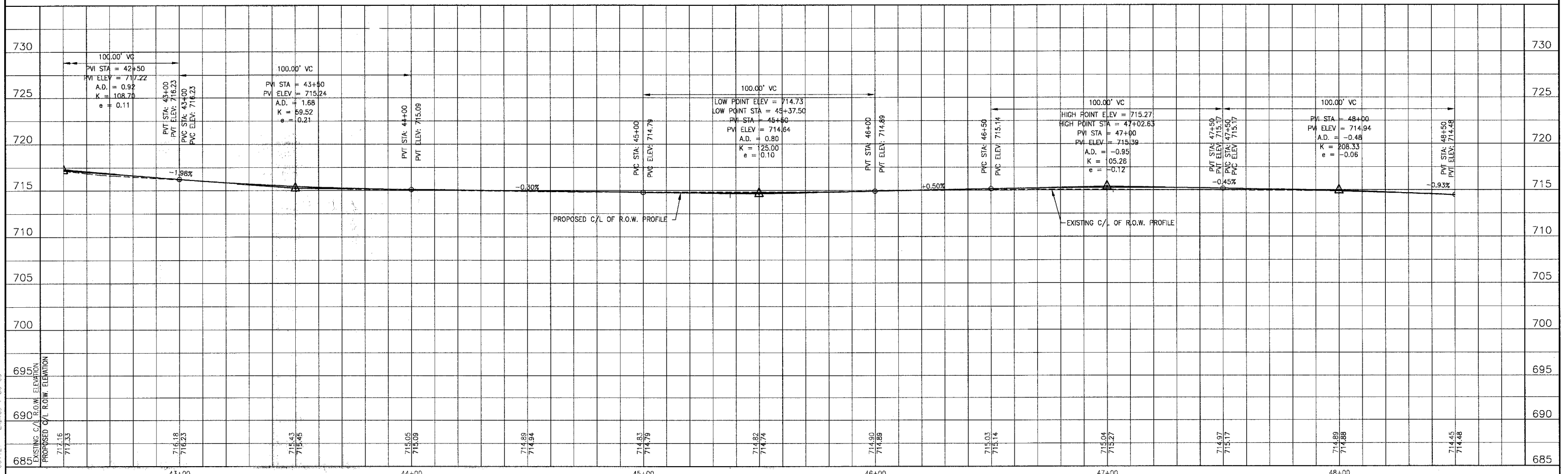
SCALE: VERT: 1"=5'
 HORIZ: 1"=20'

PROJECT NO.: 020146
 SHEET NO.: 25 OF 116



NOTE:
1. SEE SHT. NO. 44 FOR DRAINAGE & UTILITY INFORMATION.

OAK PARK AVENUE



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REV.	DATE	DESCRIPTION
1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

BAXTER & WOODMAN
Consulting Engineers

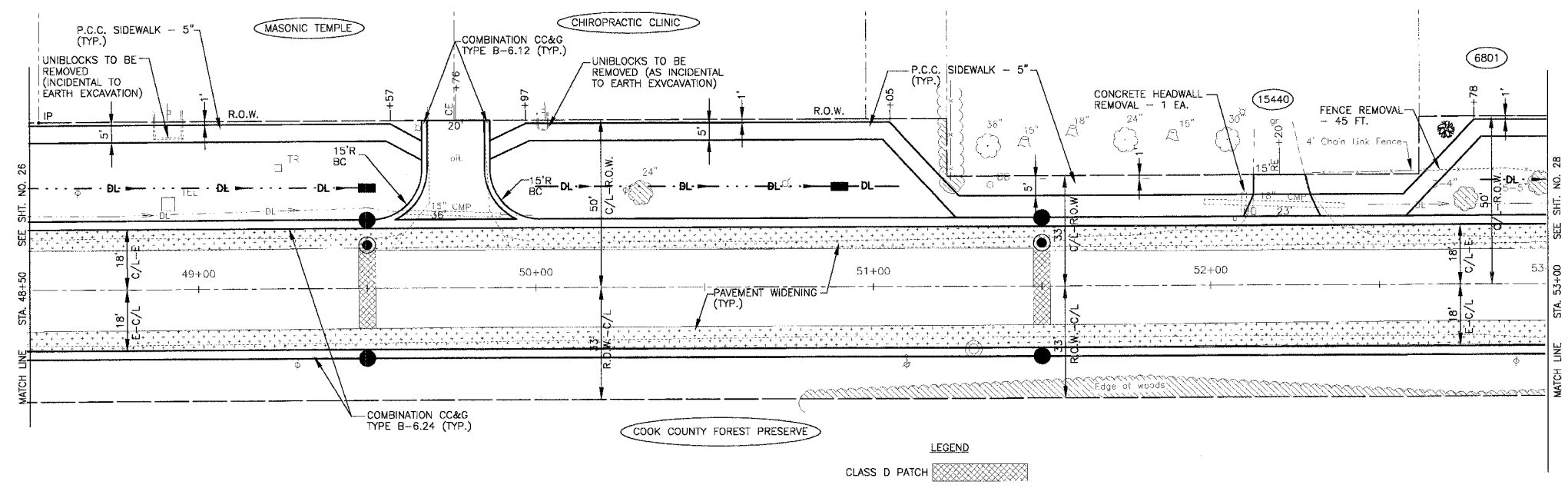
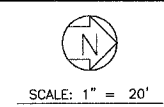
Baxter & Woodman
Crystal Lake, Illinois 815.459.1260
Durlington, Wisconsin 262.763.7831
Moline, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Crystal Lake, Illinois 815.223.5088
Rockford, Illinois 815.498.1551
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 42+50 TO STA. 48+50
GEOMETRIC PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5'
DRAWN BY UKB	HORIZ: 1"=20'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 26 OF 116

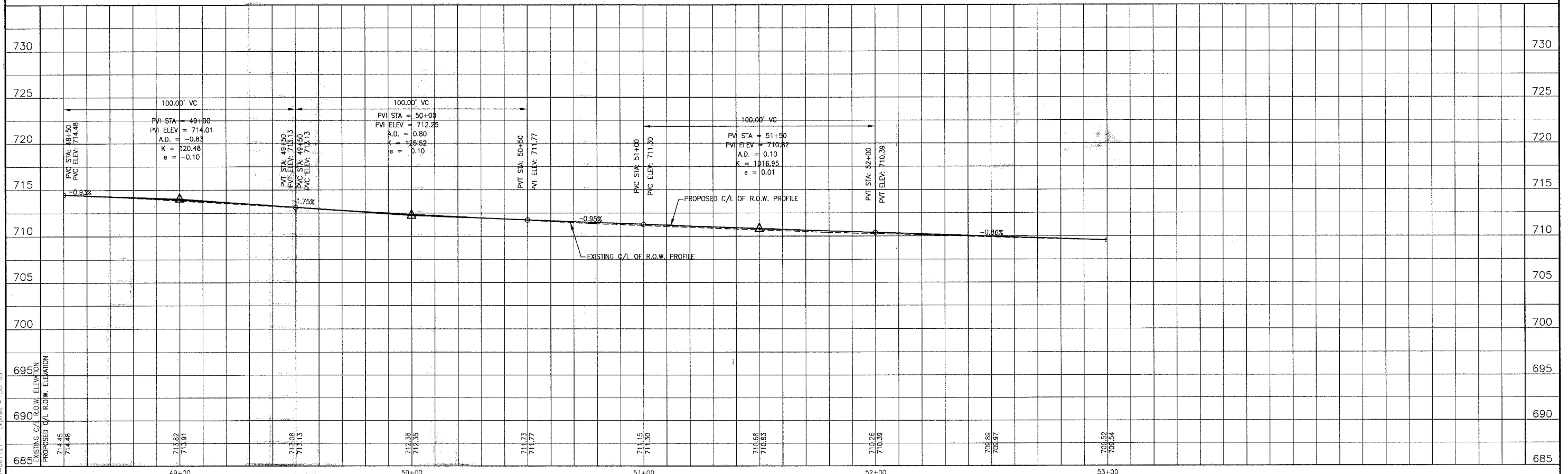
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	27
STA.	TO STA.		FED. ROAD DIST. NO. 1	
			ILLINOIS	
			FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



LEGEND
CLASS D PATCH

NOTE:
1. SEE SHT. NO. 45 FOR DRAINAGE & UTILITY INFORMATION.

OAK PARK AVENUE



I:\OAKPARK\2014\05\2014-05-05\OAKPARK-CRPF.dwg
 P:\2014\4-27-05 @ 2:50pm Br. 2314b
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REV.	NO.	DATE	DESCRIPTION
1	1	4-27-05	FOR FOOT AND COOK COUNTY COMMENTS

CONSULTANTS	DESIGNED BY	NJP
	DRAWN BY	UKB
	CHECKED BY	NJP
	DATE	1-20-05

BAXTER & WOODMAN
Consulting Engineers

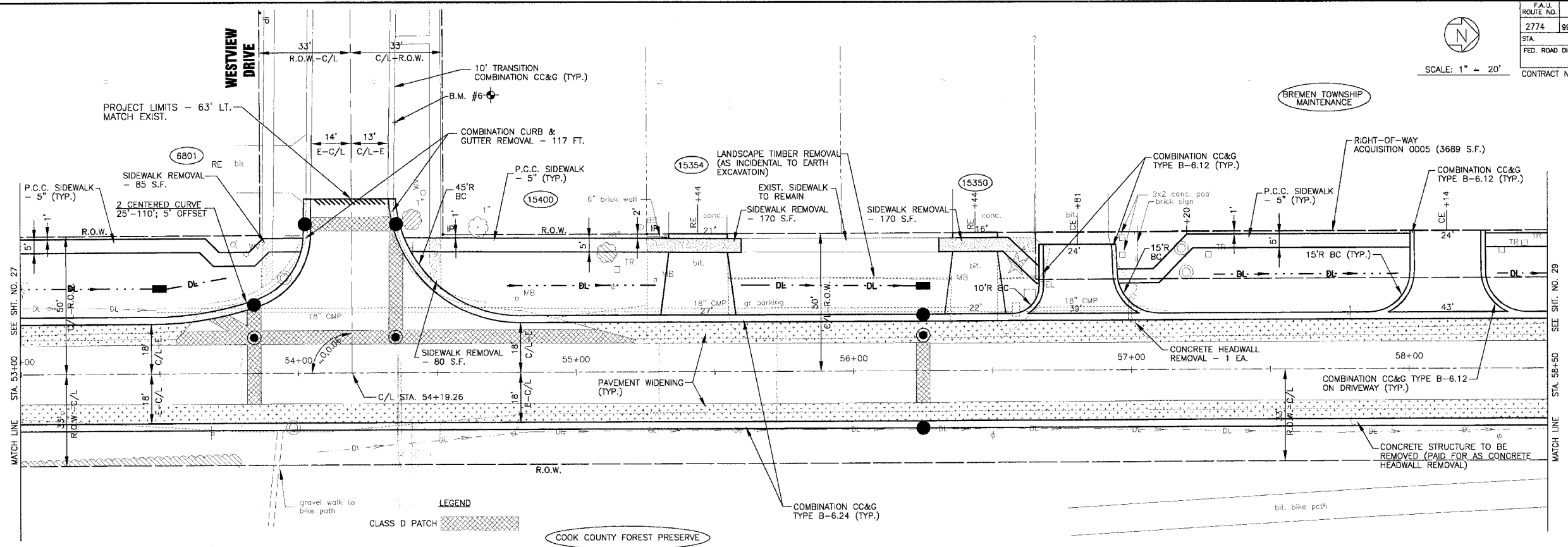
Baxter & Woodman
Crystal Lake, Illinois 815.459.1260
Burlington, Wisconsin 262.763.7834
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Groganville, Illinois 847.283.8088
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

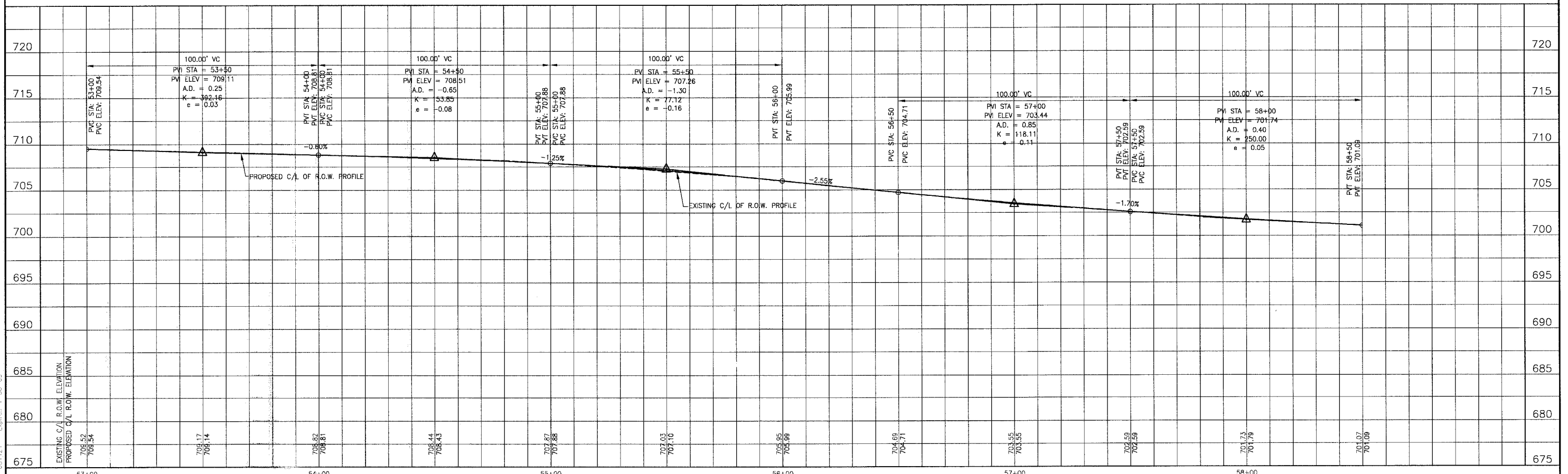
OAK PARK AVENUE
STA. 48+50 TO STA. 53+00
GEOMETRIC PLAN

DESIGNED BY: NJP
SCALE: VERT: 1"=5'
HORIZ: 1"=20'
PROJECT NO.: 020146
SHEET NO.: 27 OF 116

SCALE: 1" = 20'



OAK PARK AVENUE



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 Plotted: 4-27-05 @ 2:53pm By: 231lub
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REV.	NO.	DATE	DESCRIPTION
1	4-28-05		FOR DOT AND COOK COUNTY COMMENTS

BAXTER & WOODMAN
Consulting Engineers

Baxter & Woodman
Crystal Lake, Illinois 815.459.1200
Burlington, Wisconsin 262.763.7894
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Grapeville, Illinois 847.233.5088
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.609.7425

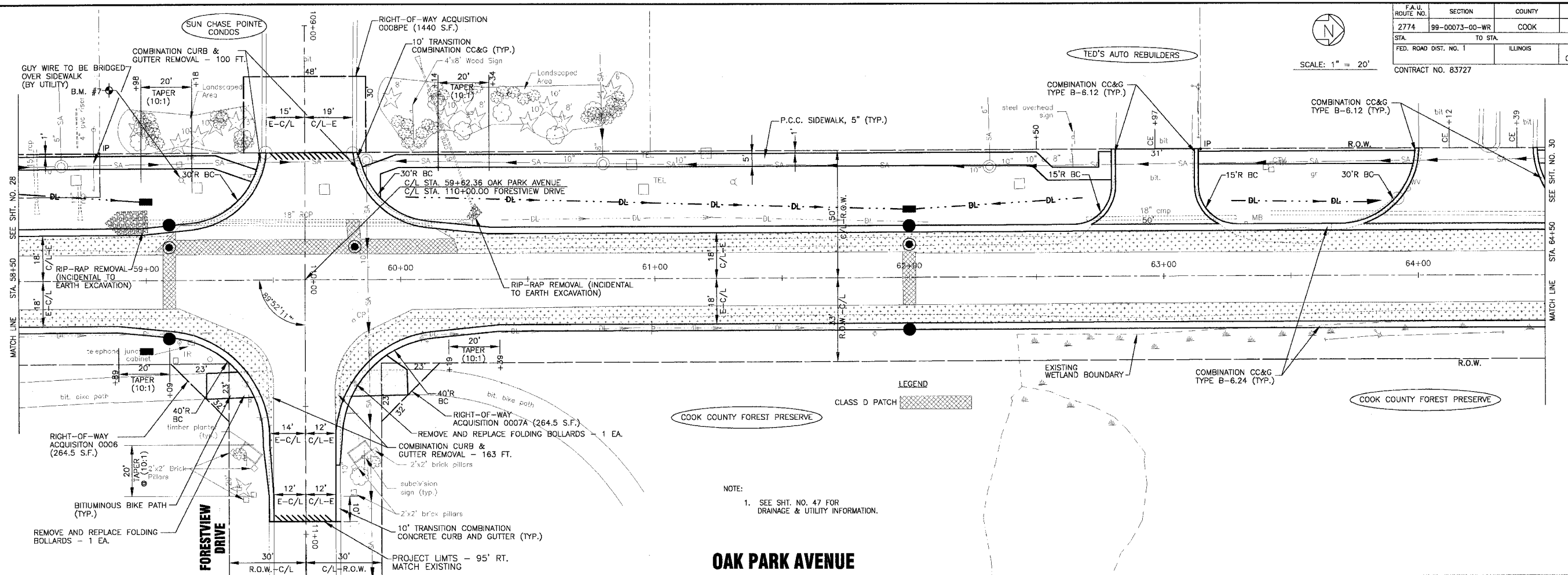
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 53+00 TO STA. 58+00
GEOMETRIC PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5' HORIZ: 1"=20'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	28 OF 116

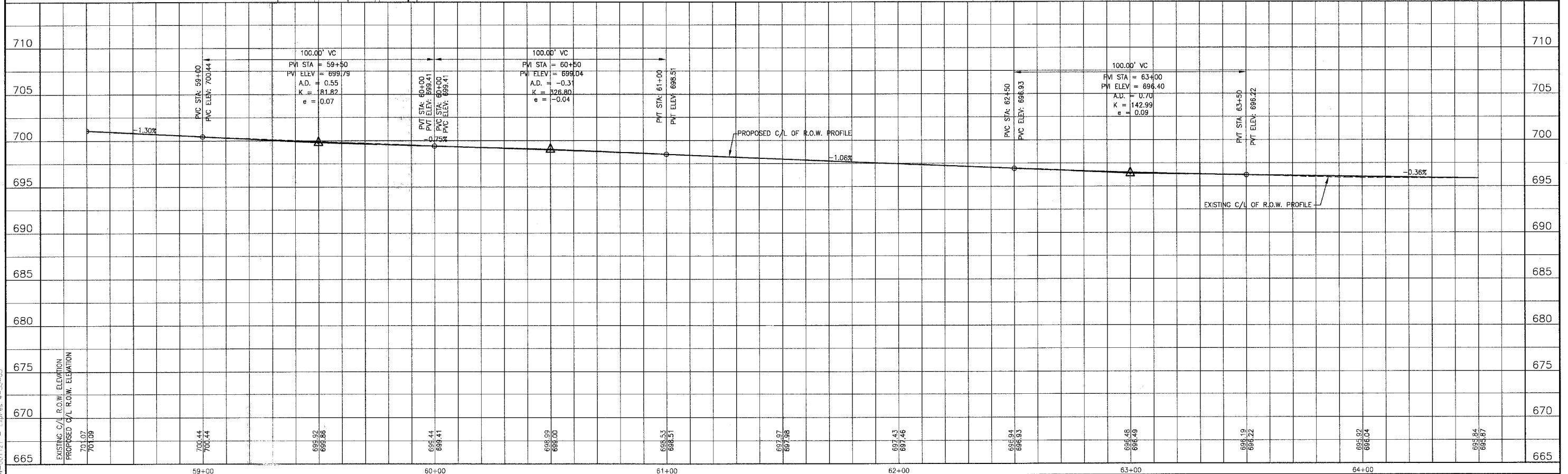
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	29
STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT CMM-700.3 (750)
				CONTRACT NO. 83727

SCALE: 1" = 20'



OAK PARK AVENUE

NOTE:
1. SEE SHT. NO. 47 FOR DRAINAGE & UTILITY INFORMATION.



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CONSULTANTS	REV. NO.	DESCRIPTION
BAXTER & WOODMAN	1	REVISED PER IDOT AND COOK COUNTY COMMENTS

BAXTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.469.1269
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.797.3111
 Graylake, Illinois 815.283.9089
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

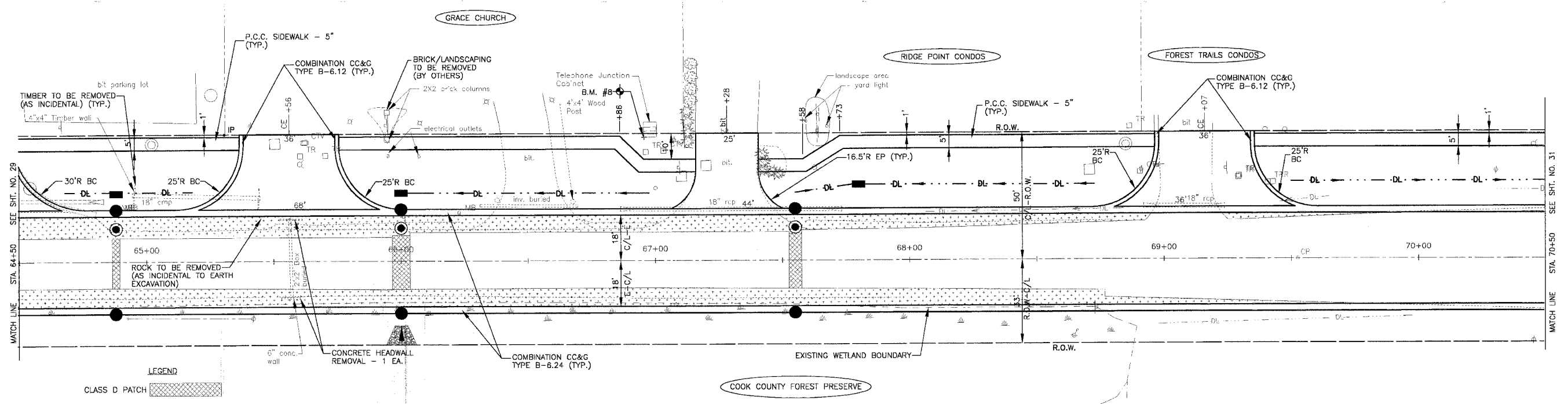
OAK PARK AVENUE
STA. 58+50 TO STA. 64+50
GEOMETRIC PLAN

DESIGNED BY	SCALE	VERT: 1"=5'	HORIZ: 1"=20'
DRWN BY	PROJECT NO.	020146	
CHECKED BY	SHEET NO.	29 OF 116	
DATE		1-20-05	



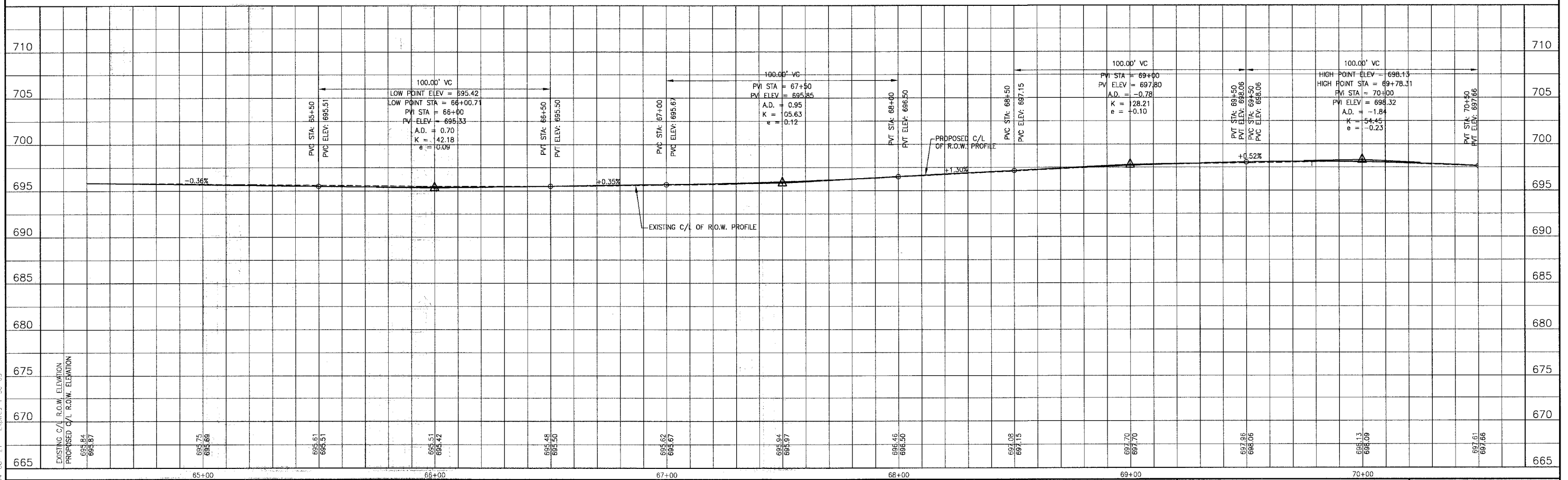
SCALE: 1" = 20'

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	30
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT CMM-7003 (750)		
CONTRACT NO. 83727				



NOTE:
1. SEE SHT. NO. 48 FOR DRAINAGE & UTILITY INFORMATION.

OAK PARK AVENUE



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CONSULTANTS	REV.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

BAXTER & WOODMAN
 Consulting Engineers

Baxter & Woodman
 Crystal Lake, Illinois 815.458.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 815.233.5088
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.602.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 64+50 TO STA. 70+50
GEOMETRIC PLAN

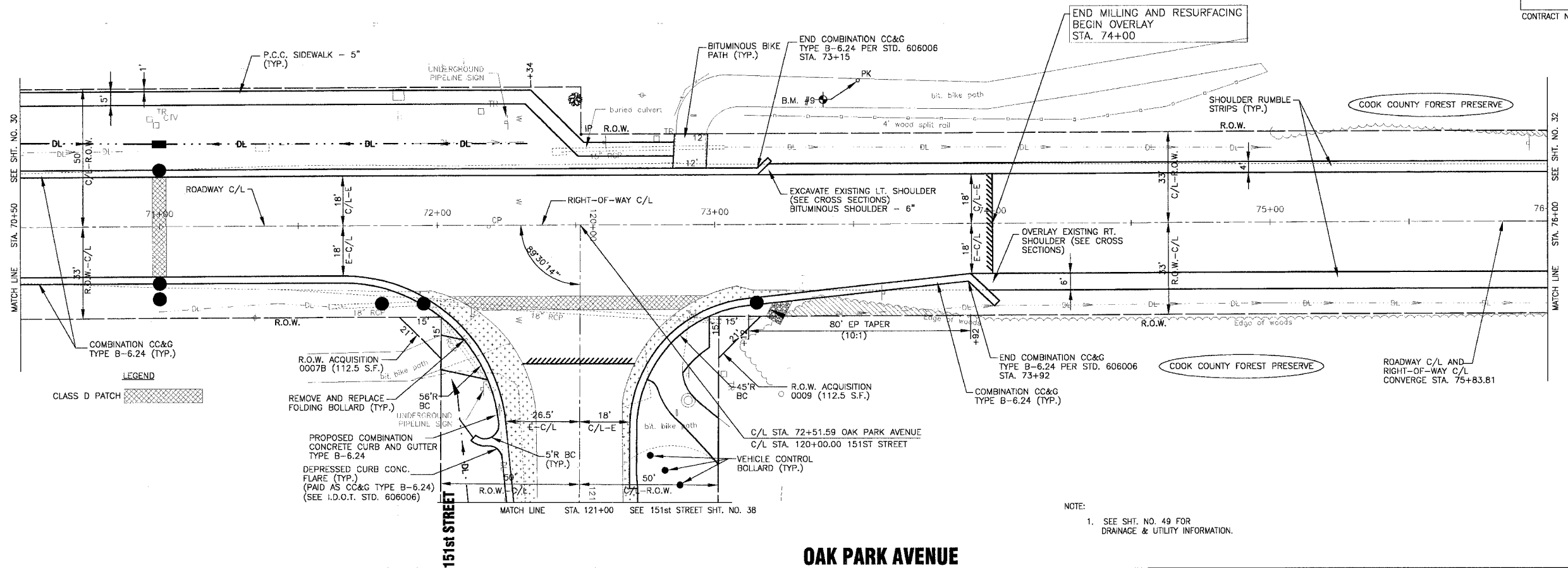
DESIGNED BY: NJP
 DRAWN BY: UKB
 CHECKED BY: NJP
 DATE: 1-20-05

SCALE: VERT: 1"=5'
 HORIZ: 1"=20'

PROJECT NO.: 020146
 SHEET NO.: 30 OF 116

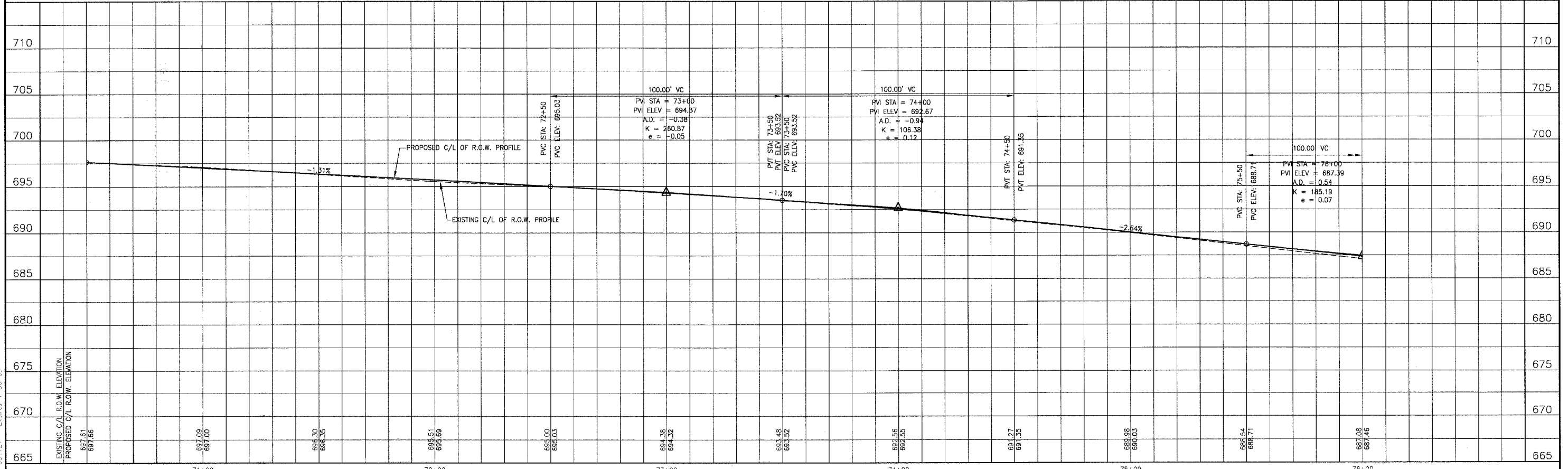


SCALE: 1" = 20'



NOTE:
1. SEE SHT. NO. 49 FOR DRAINAGE & UTILITY INFORMATION.

OAK PARK AVENUE



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
BAXTER & WOODMAN	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

BAXTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.439.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Graystone, Illinois 847.253.9088
 Rockford, Illinois 815.488.1551
 Plainfield, Illinois 815.609.7485

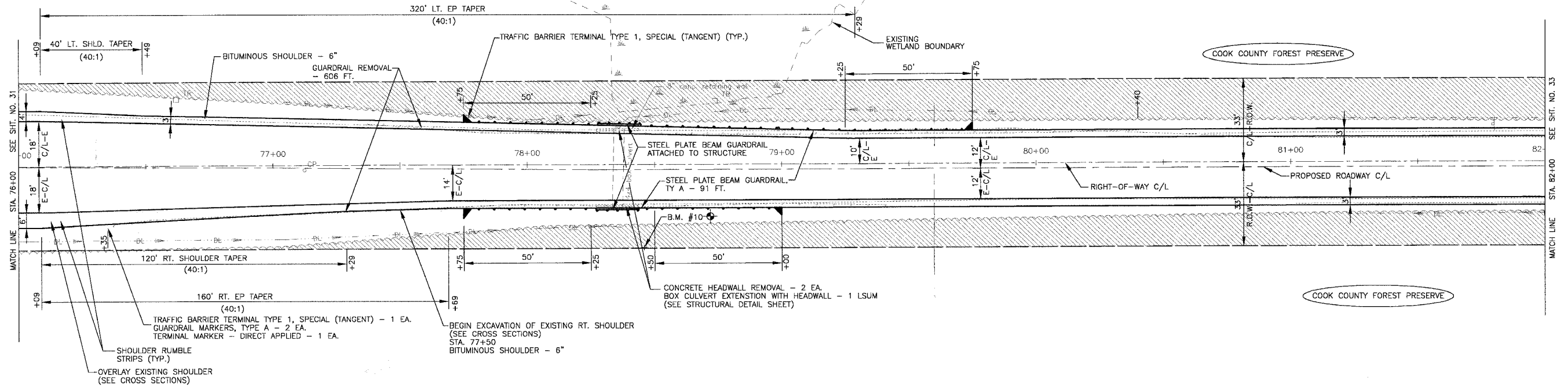
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 70+50 TO STA. 76+00
GEOMETRIC PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5'
DRAWN BY LKB	HORIZ: 1"=20'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 31 OF 116

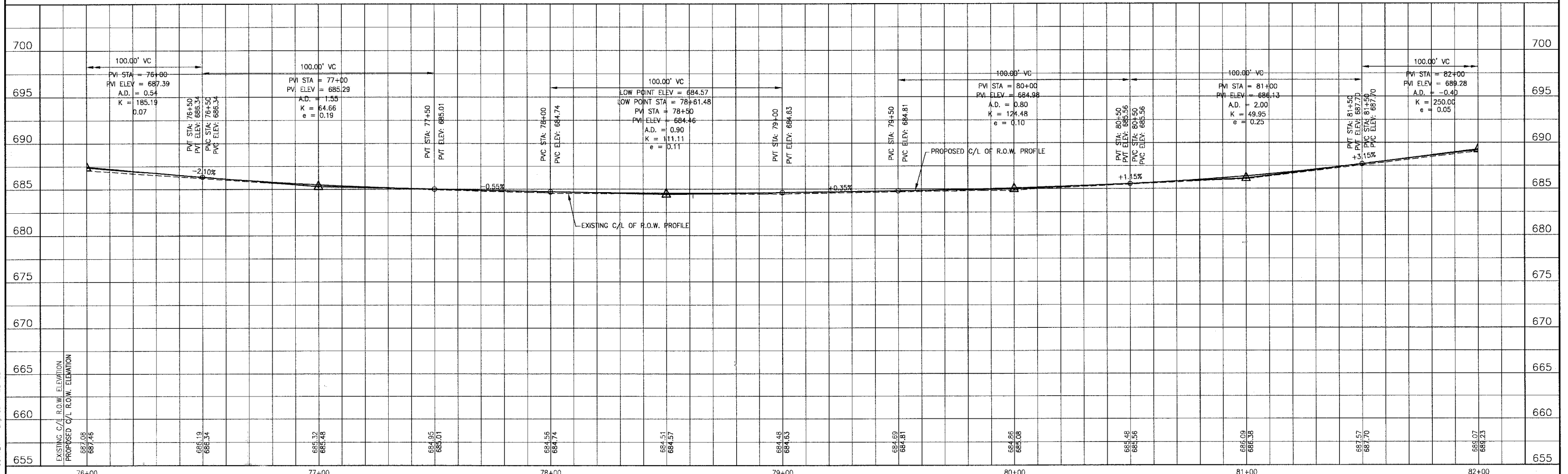
F.A.I. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	32
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				

SCALE: 1" = 20'



NOTE:
1. SEE SHT. NO. 50 FOR DRAINAGE & UTILITY INFORMATION.

OAK PARK AVENUE



I:\OAKPARK\2014\01\DWG\2014-01-01\OAKPARK-CRIP.dwg
Plot Date: 4-27-06 @ 3:01pm By: 231ukb
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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
Consulting Engineers

Baxter & Woodman
Crystal Lake, Illinois 815.459.1260
Burlington, Wisconsin 262.763.7631
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Graftonville, Illinois 847.233.5088
Rockford, Illinois 815.459.1551
Plainfield, Illinois 815.603.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

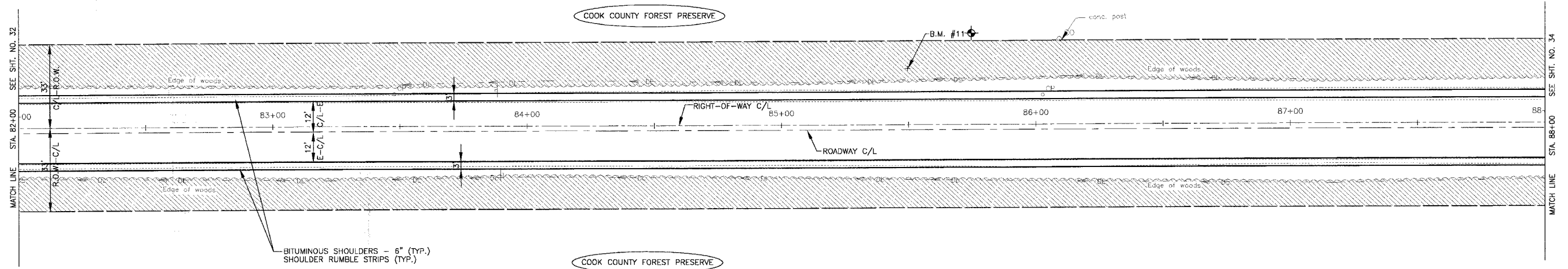
OAK PARK AVENUE
STA. 76+00 TO STA. 82+00
GEOMETRIC PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5'
DRAWN BY UKB	HORIZ: 1"=20'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 32 OF 116



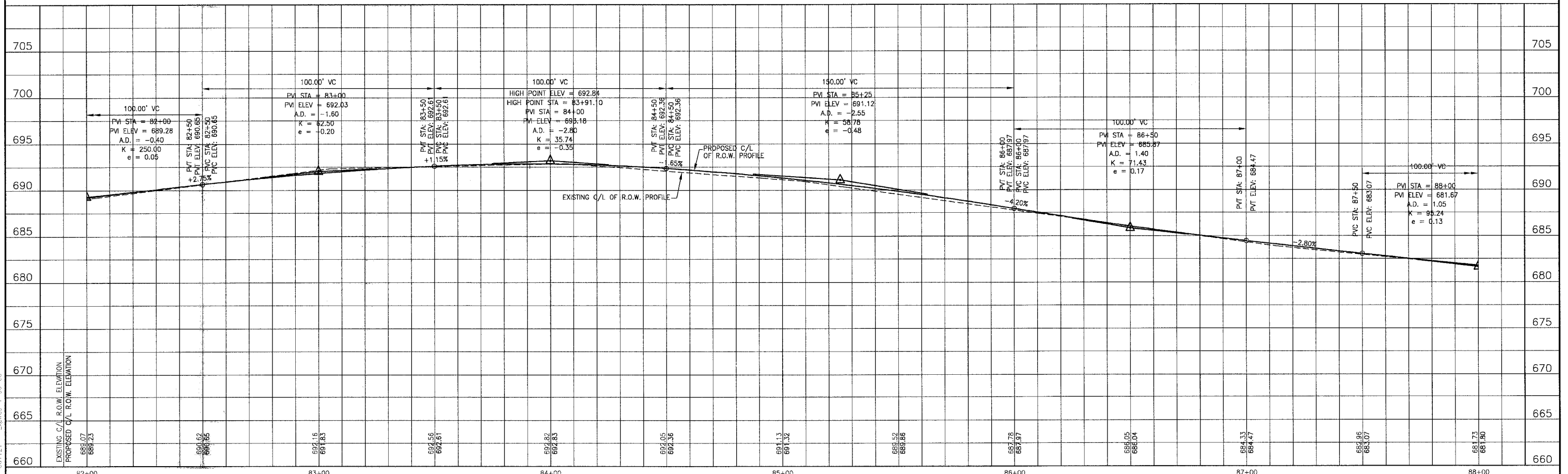
SCALE: 1" = 20'

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	33
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT	
CONTRACT NO. 83727			CMM-7003 (750)	



NOTE:
1. SEE SHT. NO. 51 FOR DRAINAGE & UTILITY INFORMATION.

OAK PARK AVENUE



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REV. NO.	DATE	DESCRIPTION
1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

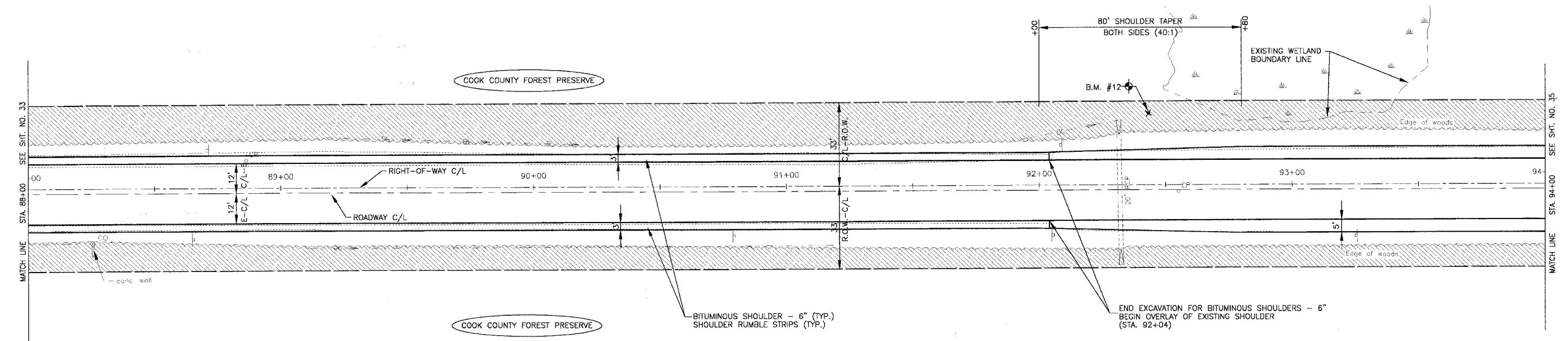
BAXTER & WOODMAN
Consulting Engineers

Baxter & Woodman
Crystal Lake, Illinois 815.459.1260
Burlington, Wisconsin 262.763.7834
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.0111
Grapeville, Illinois 847.283.5088
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.609.7455

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

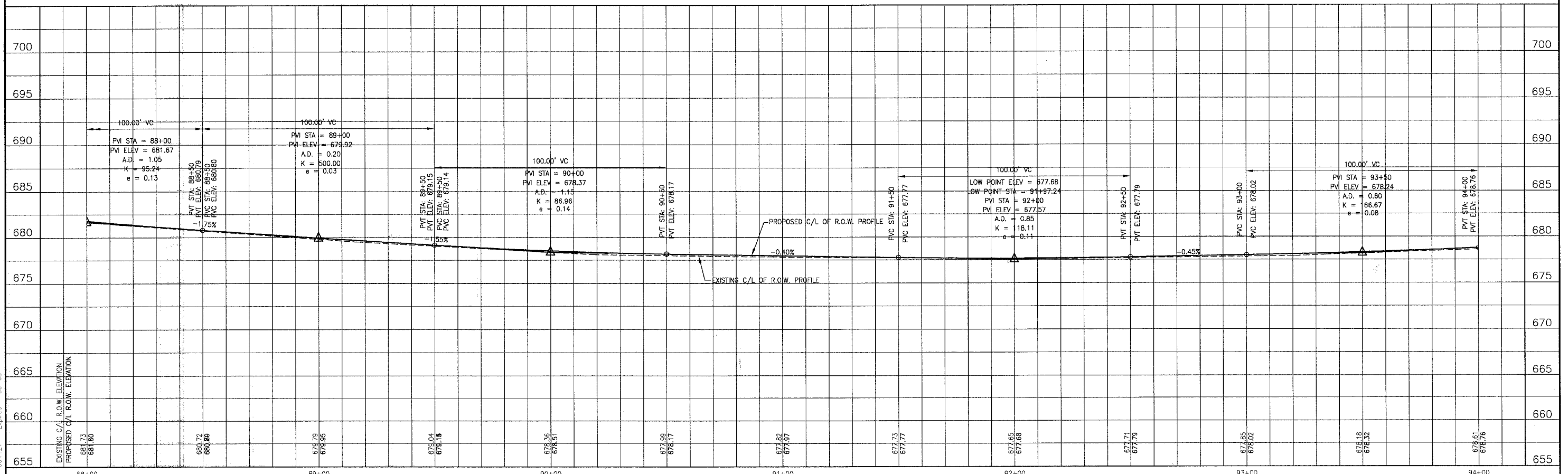
OAK PARK AVENUE
STA. 82+00 TO STA. 88+00
GEOMETRIC PLAN

DESIGNED BY	NJP	SCALE	VERT: 1"=5'
DRAWN BY	UKB	HORIZ: 1"=20'	
CHECKED BY	NJP	PROJECT NO.	020146
DATE	1-20-05	SHIFT NO.	
			33 OF 116



NOTE:
1. SEE SHT. NO. 52 FOR DRAINAGE & UTILITY INFORMATION.

OAK PARK AVENUE



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

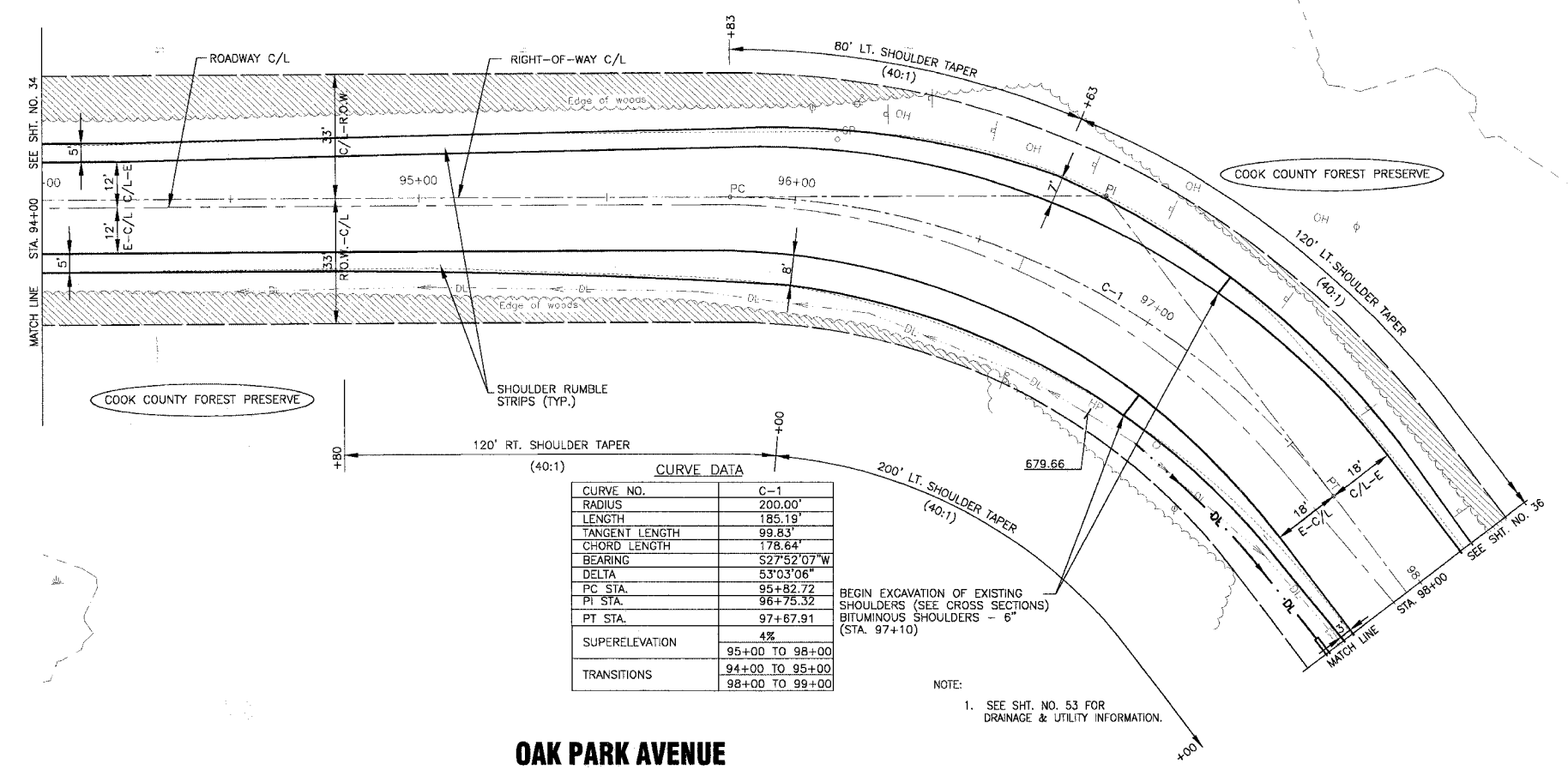
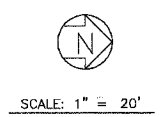
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.458.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.707.3111
 Oregonside, Illinois 847.233.5089
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 88+00 TO STA. 94+00
GEOMETRIC PLAN

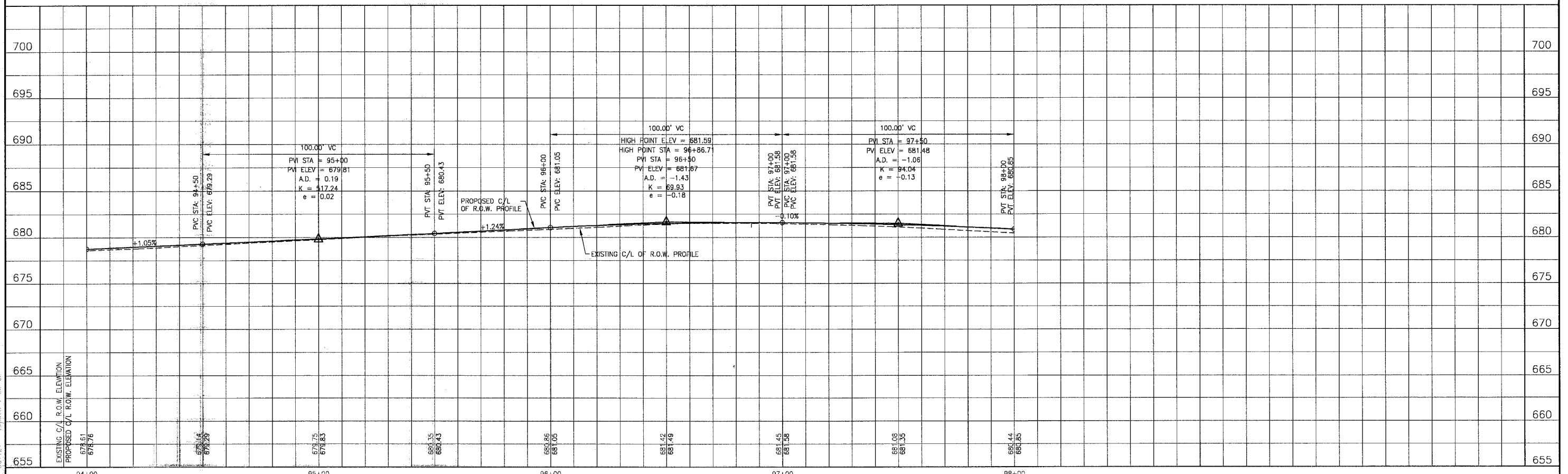
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DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	34 OF 116



CURVE DATA	
CURVE NO.	C-1
RADIUS	200.00'
LENGTH	185.19'
TANGENT LENGTH	99.83'
CHORD LENGTH	178.64'
BEARING	S27°52'07"W
DELTA	53°03'06"
PC STA.	95+82.72
PT STA.	96+75.32
PT STA.	97+67.91
SUPERELEVATION	4%
	95+00 TO 98+00
TRANSITIONS	94+00 TO 95+00
	98+00 TO 99+00

NOTE:
1. SEE SHT. NO. 53 FOR DRAINAGE & UTILITY INFORMATION.

OAK PARK AVENUE



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER 100' AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

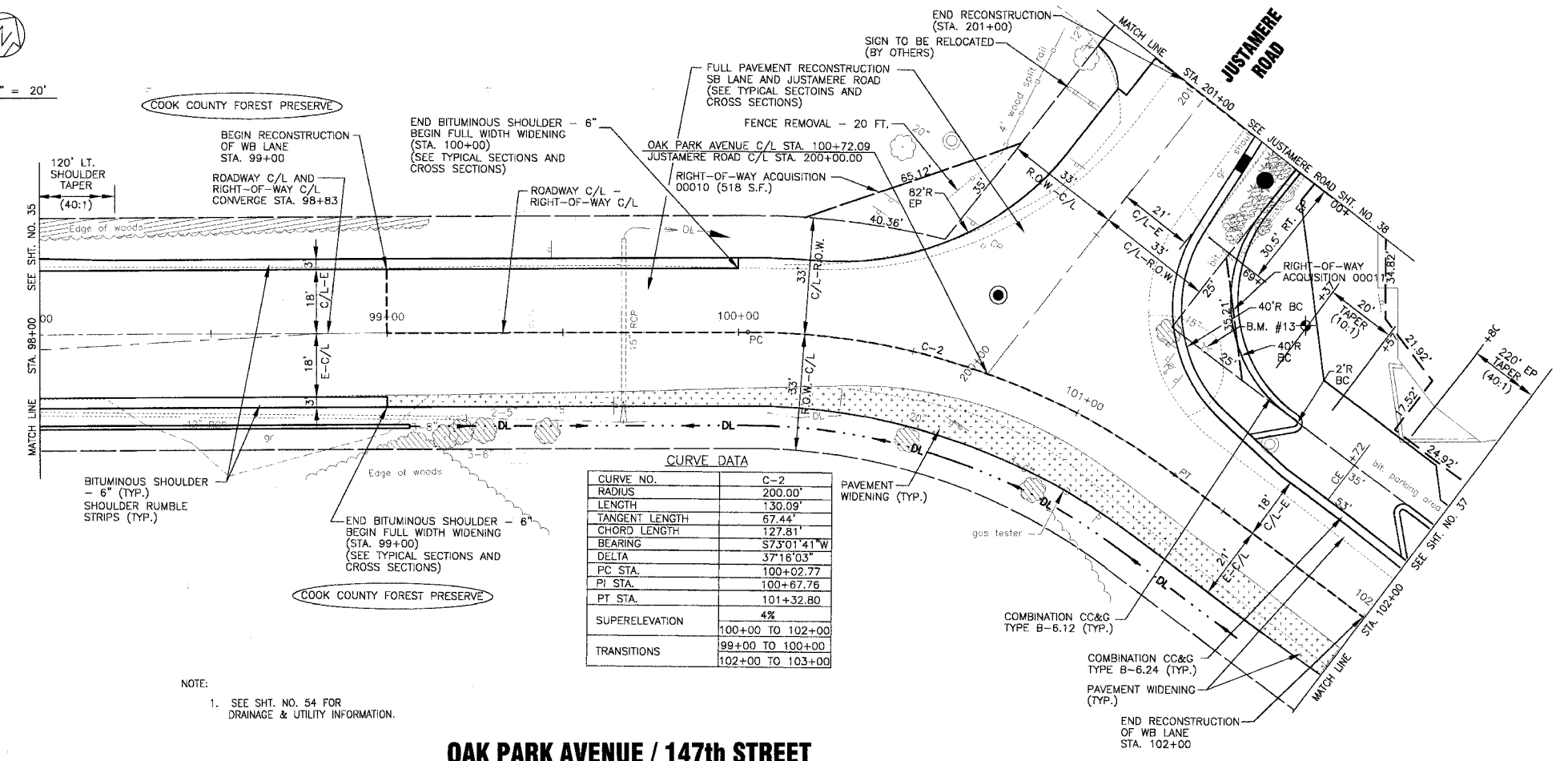
Baxter & Woodman
 Crystal Lake, Illinois 815.459.1200
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.707.2111
 Chicago, Illinois 847.233.5088
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 94+00 TO STA. 98+00
GEOMETRIC PLAN

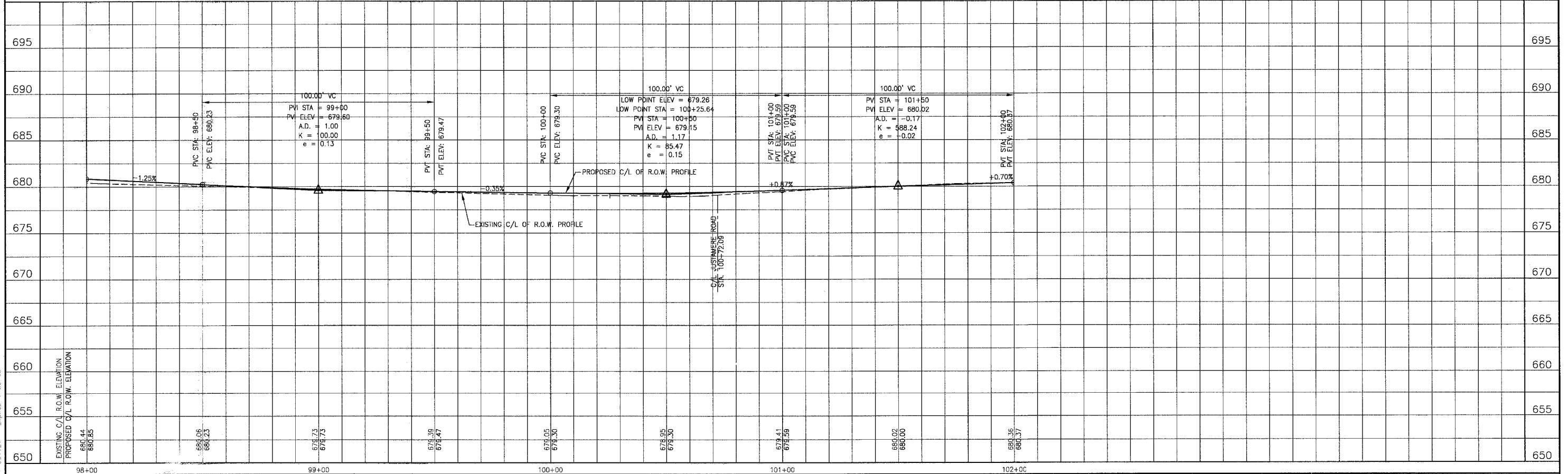
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DRAWN BY UKB	HORIZ: 1"=20'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 35 OF 116

SCALE: 1" = 20'



NOTE:
1. SEE SHT. NO. 54 FOR DRAINAGE & UTILITY INFORMATION.

OAK PARK AVENUE / 147th STREET



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER DOT AND COOK COUNTY COMMENTS

BAXTER & WOODMAN
Consulting Engineers

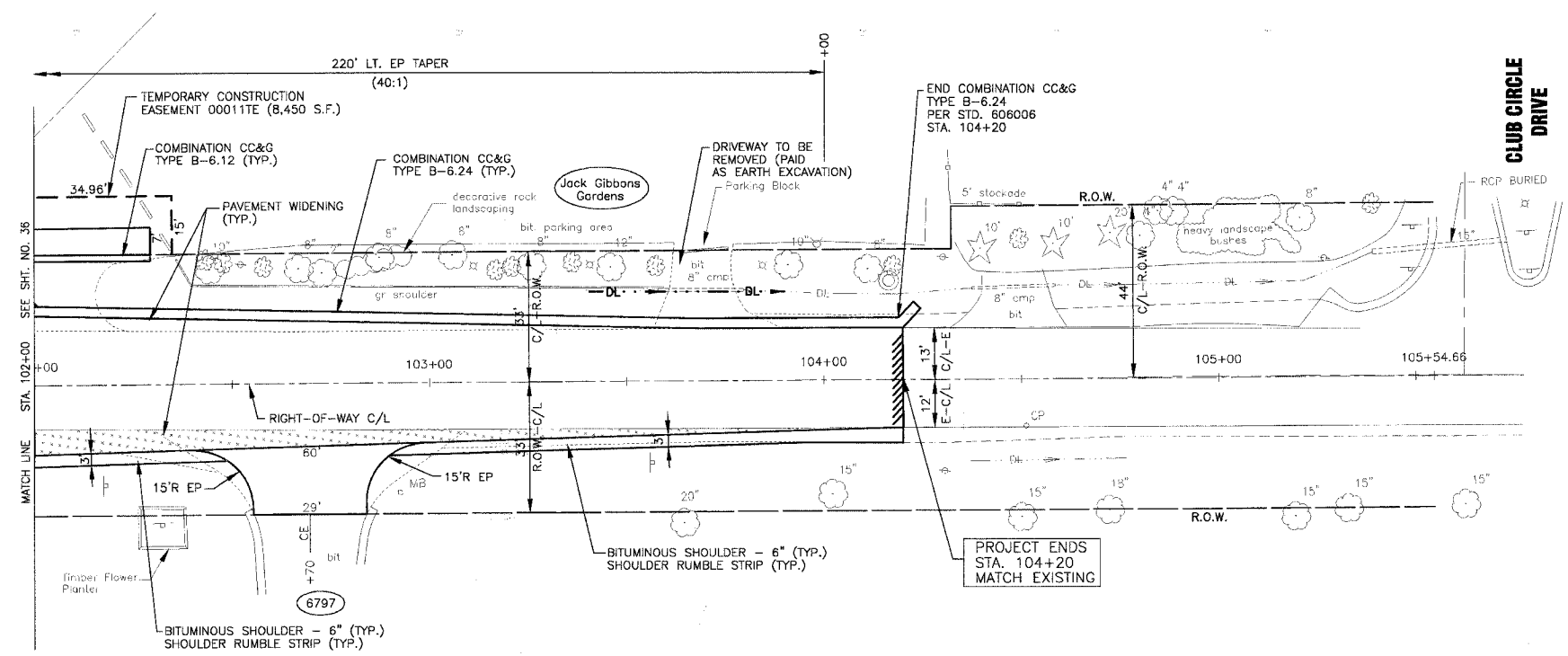
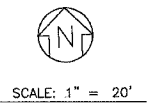
Baxter & Woodman
Crystal Lake, Illinois 815.438.1250
Purinton, Illinois 815.438.2034
Mokena, Illinois 708.478.2080
DeKalb, Illinois 815.787.9111
Graylake, Illinois 815.438.5089
Rockford, Illinois 815.408.1551
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE / 147TH STREET
STA. 98+00 TO STA. 102+00
GEOMETRIC PLAN

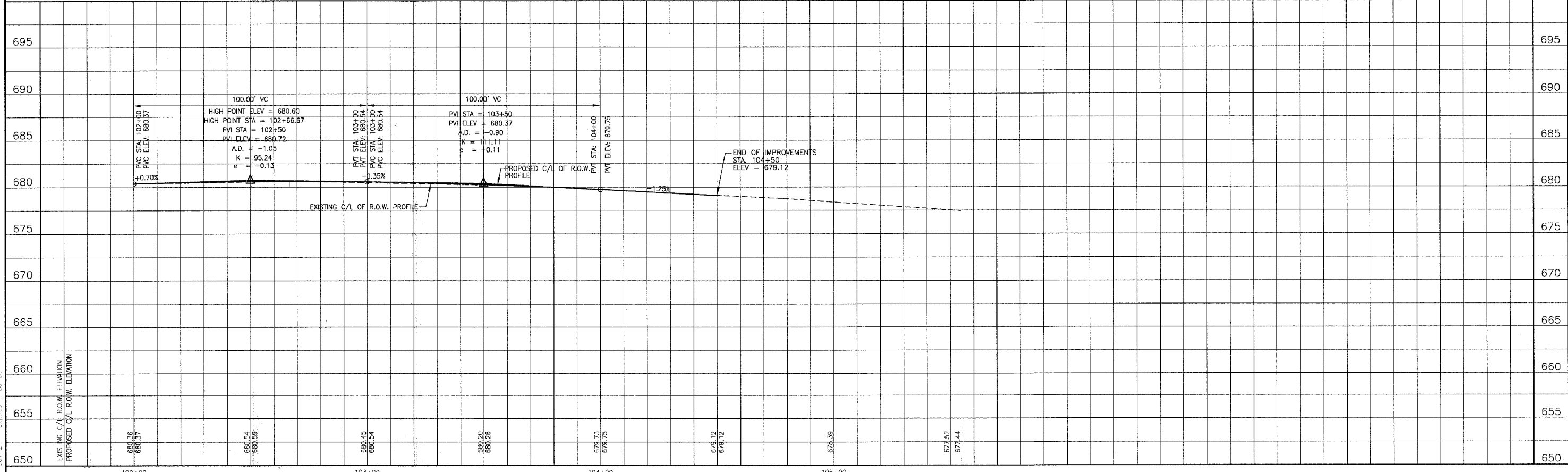
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DRAWN BY UKB	HORIZ: 1"=20'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 36 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	37
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT CMM-7003 (750)		
CONTRACT NO. 83727				



NOTE:
1. SEE SHT. NO. 55 FOR DRAINAGE & UTILITY INFORMATION.

147th STREET



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

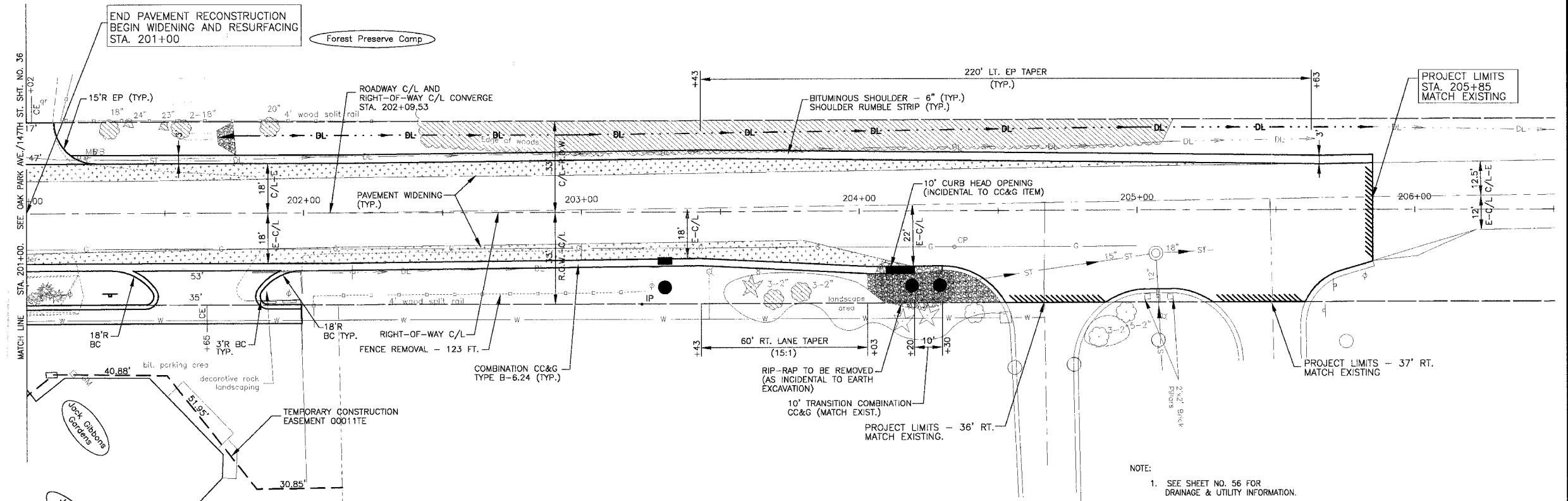
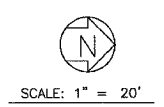
BAXTER & WOODMAN
 Consulting Engineers

Baxter & Woodman
 Crystal Lake, Illinois 815.459.1200
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2050
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 847.233.5080
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

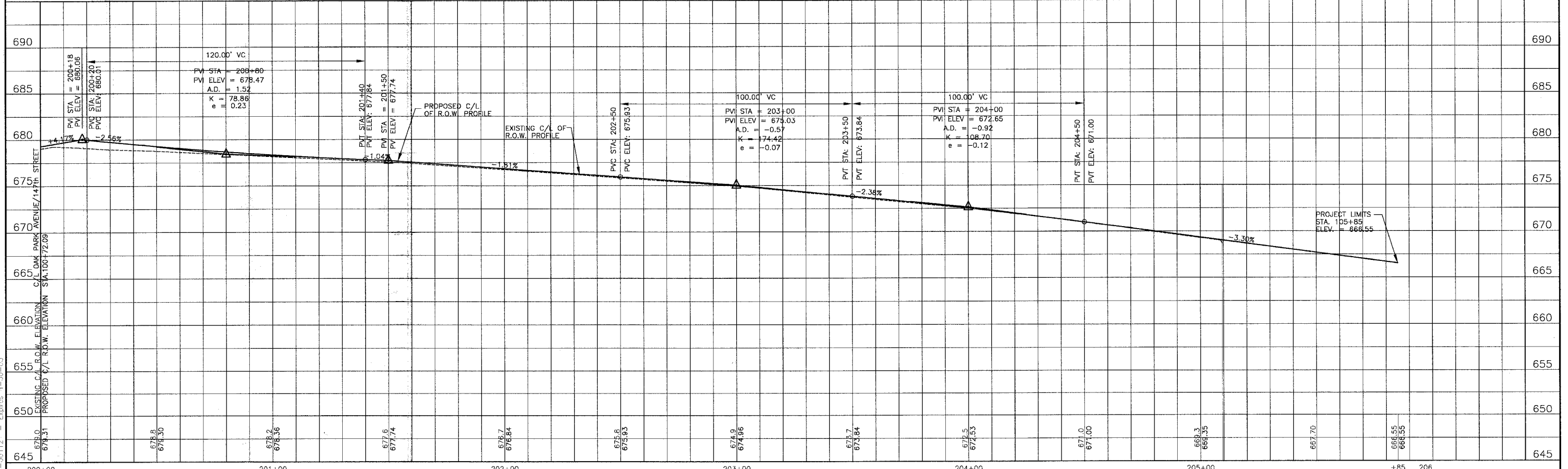
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

147th STREET
STA. 102+00 TO STA. 105+54.66
GEOMETRIC PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5'
DRAWN BY UKB	HORIZ: 1"=20'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 37 OF 116



JUSTAMERE ROAD



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CONSULTANT'S	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

Baxter & Woodman
 Crystal Lake, Illinois 815.459.1860
 Burlington, Wisconsin 262.793.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Grayslake, Illinois 247.223.5088
 Rockford, Illinois 815.489.1531
 Plainfield, Illinois 815.609.7425

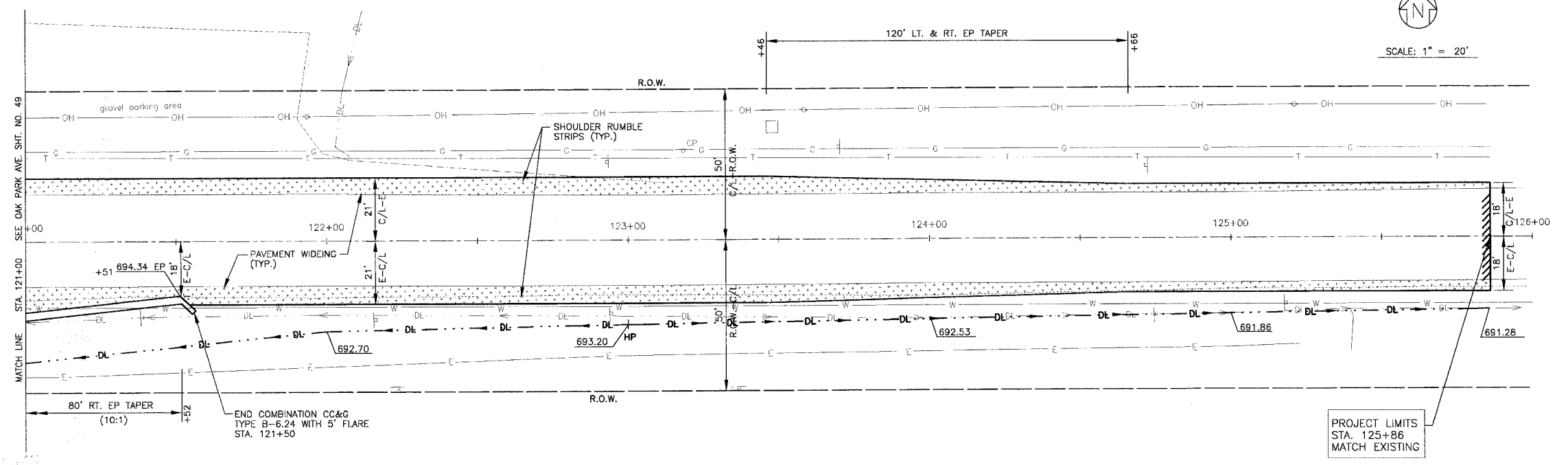
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

JUSTAMERE ROAD
STA. 200+00 TO STA. 205+85
GEOMETRIC PLAN

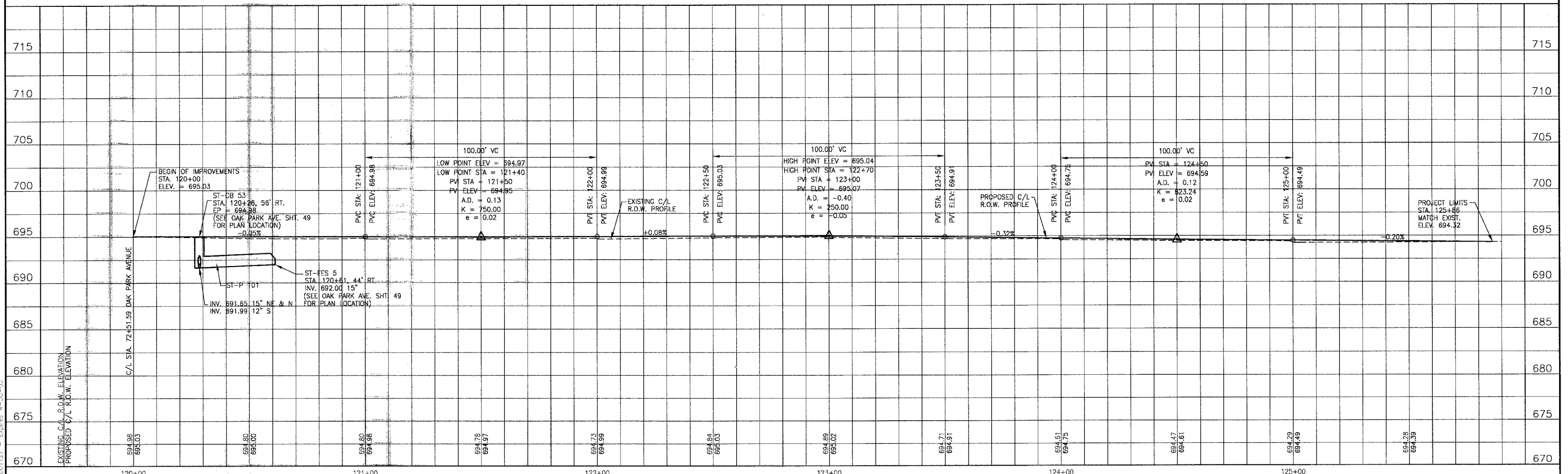
DESIGNED BY NJP	SCALE VERT: 1"=5' HORIZ: 1"=20'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	38 OF 116



SCALE: 1" = 20'



151st STREET



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

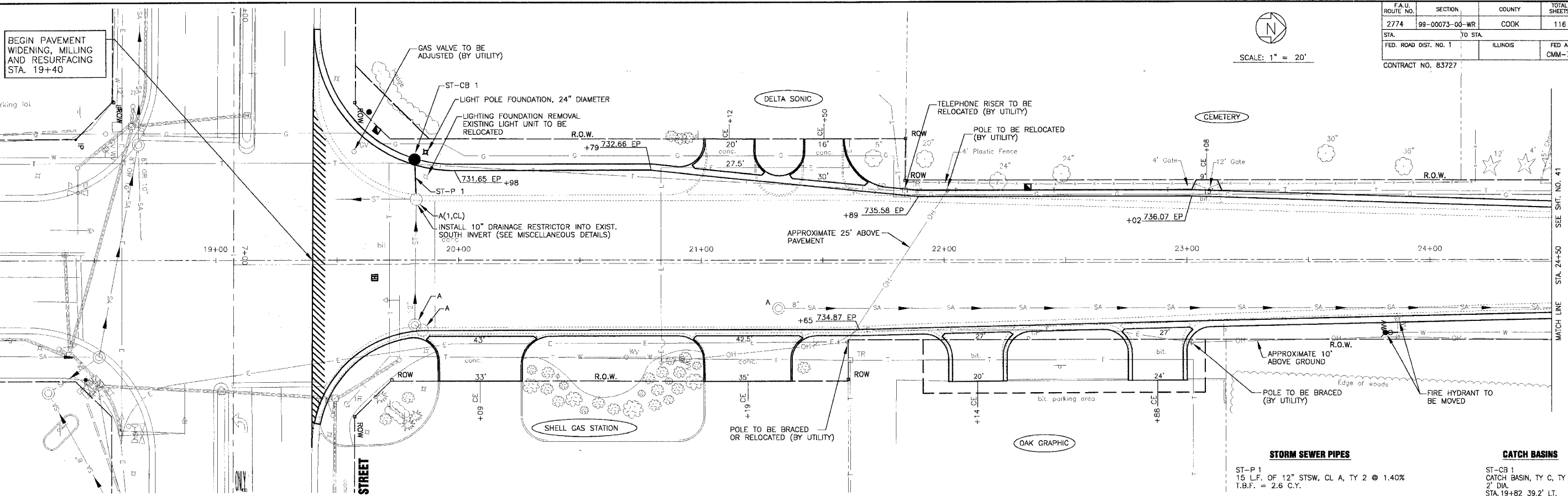
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

Baxter & Woodman
 Consulting Engineers
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 847.233.5088
 Rockford, Illinois 815.489.1651
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

151st STREET
STA. 120+00 TO STA. 125+86
GEOMETRIC, DRAINAGE & UTILITY PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5' HORIZ: 1"=20'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	39 OF 116

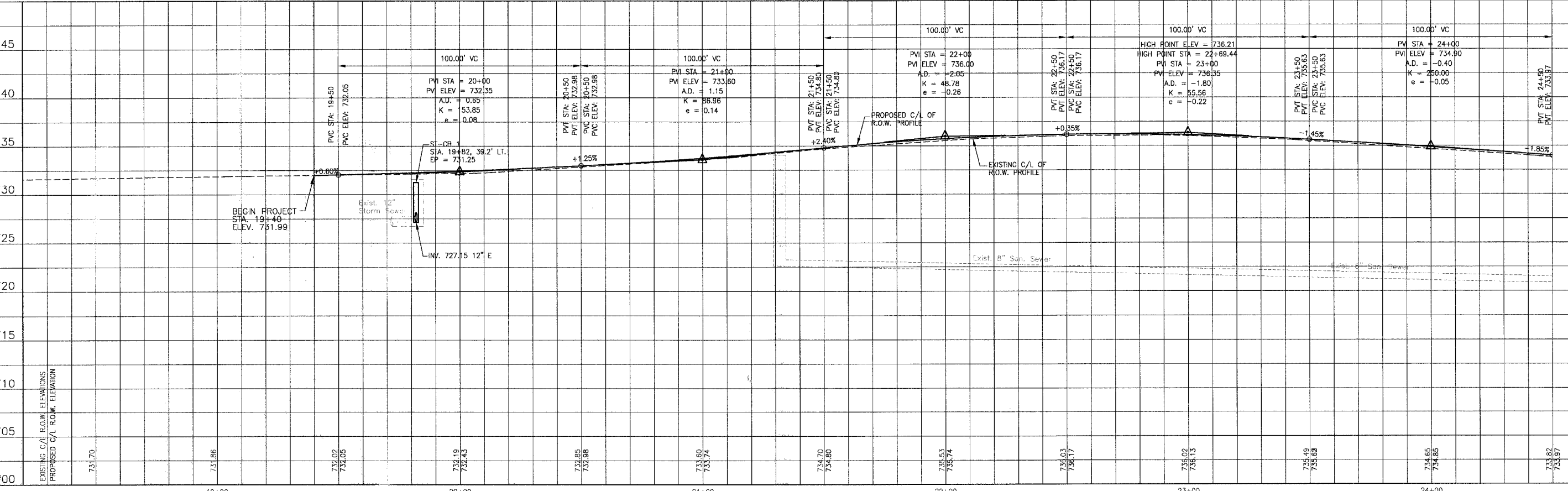


OAK PARK AVENUE

NOTE: 1. SEE SHEET NO. 22 FOR GEOMETRICS INFORMATION.

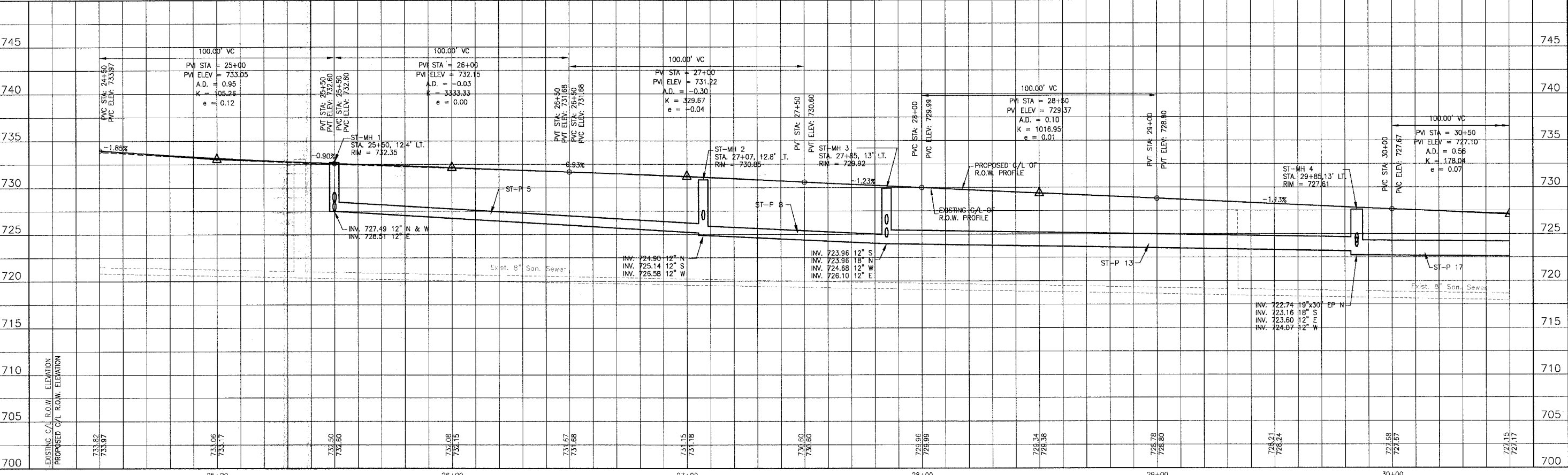
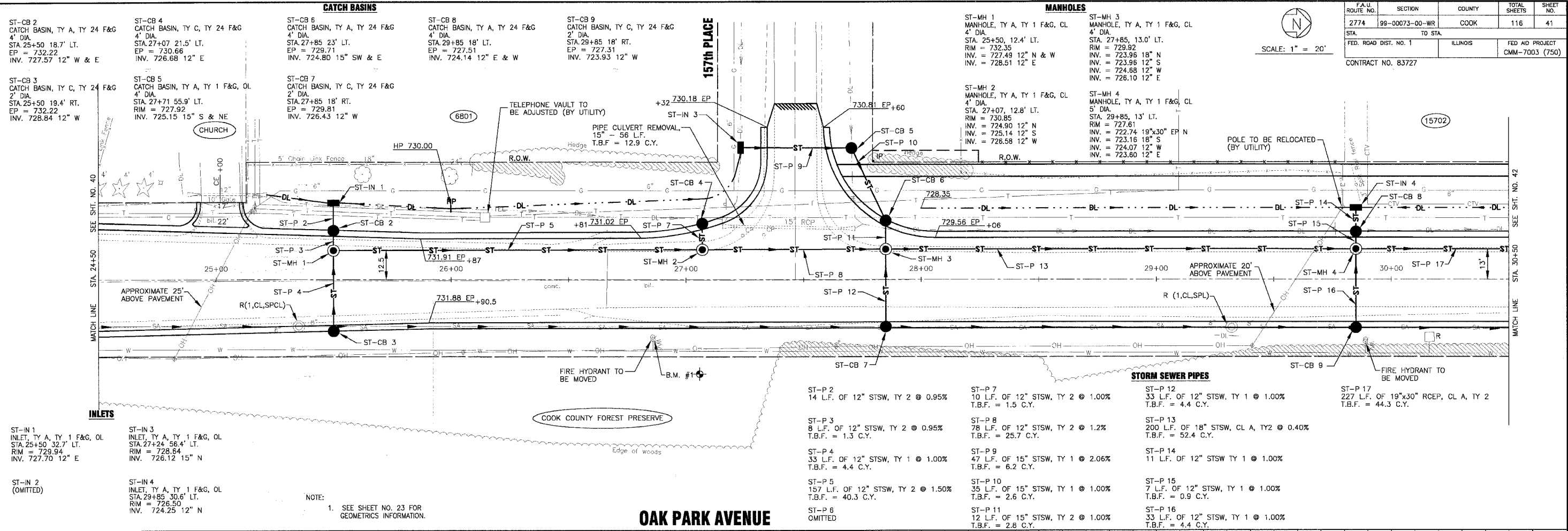
STORM SEWER PIPES
 ST-P 1
 15 L.F. OF 12" STSW, CL A, TY 2 @ 1.40%
 T.B.F. = 2.6 C.Y.

CATCH BASINS
 ST-CB 1
 15 L.F. OF 12" STSW, TY C, TY 24 F&G
 2' DIA.
 STA. 19+82.39.2' LT.
 EP = 731.25
 INV. 727.15 12" E



<p>CONSULTANTS</p> <p>REV. NO. DATE DESCRIPTION</p> <p>1 4-28-06 PER IDOT AND COOK COUNTY COMMENTS</p>	<p>BAXTER & WOODMAN Consulting Engineers</p> <p>Baxter & Woodman Crystal Lake, Illinois 815.458.1260 Burlington, Wisconsin 262.263.7854 Mokena, Illinois 708.478.2090 DeKalb, Illinois 815.787.3111 Crystal Lake, Illinois 815.233.5088 Rockford, Illinois 815.488.1551 Plainfield, Illinois 815.609.7425</p>	<p>CITY OF OAK FOREST, ILLINOIS OAK PARK AVENUE PROJECT</p>	<p>OAK PARK AVENUE STA. 18+25 TO STA. 24+50 DRAINAGE & UTILITY PLAN</p>	<p>DESIGNED BY: NJP DRAWN BY: LKB CHECKED BY: LDH DATE: 1-20-05</p> <p>SCALE: VERT: 1"=5' HORIZ: 1"=20'</p> <p>PROJ. NO.: 020146 SHEET NO.: 40 OF 116</p>
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REV.	DATE	DESCRIPTION
1	4-28-06	PER DOTT AND COOK COUNTY COMMENTS

BAXTER & WOODMAN
 Consulting Engineers

Baxter & Woodman
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Grayslake, Illinois 847.233.5088
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7435

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 24+50 TO STA. 30+50
DRAINAGE AND UTILITY PLAN

DESIGNED BY: NJP
 DRAWN BY: LKB
 CHECKED BY: NJP
 DATE: 1-20-05

SCALE: VERT: 1"=5'
 HORIZ: 1"=20'

PROJECT NO: 020146
 SHEET NO: 41 OF 116

C:\land Projects 2004\MOKEHA_DWS5\OAKFY020146\DWG5\20146-CFRK-DPR1.dwg
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MANHOLES

ST-MH 5
MANHOLE, TY A, TY 1 F&G, CL
7' DIA.
STA. 32+12, 13' LT.
RIM = 726.40
INV. = 722.29 15" NW
INV. = 722.29 19"30" S, N & E
INV. = 722.29 12" SW

ST-MH 6
MANHOLE, TY A, TY 1 F&G, CL
5' DIA.
STA. 33+00, 13' LT.
RIM = 726.24
INV. = 722.47 19"30" S & N
INV. = 722.58 12" W

ST-MH 7
MANHOLE, TY A, TY 1 F&G, CL
4' DIA.
STA. 34+02, 13' LT.
RIM = 726.19
INV. = 722.92 12" S
INV. = 722.92 12" E
INV. = 722.92 12" W

PIPE CULVERT REMOVAL,
18" - 31 L.F.
T.B.F. = 6.8 C.Y.

PIPE CULVERT REMOVAL,
18" - 61 L.F.
T.B.F. = 13.3 C.Y.
2x2 box culvert

PIPE CULVERT REMOVAL,
15" - 32 L.F.
T.B.F. = 10.2 C.Y.

INLETS

ST-IN 5
INLET, TY A, TY 1 F&G, OL
STA. 31+59 32' LT.
RIM = 725.95
INV. 723.70 12" E

ST-IN 6
INLET, TY A, TY 8 F&G
STA. 31+91 62' LT.
RIM = 724.66
INV. 723.16 12" N

ST-IN 7
INLET, TY A, TY 8 F&G
STA. 34+36 38.1' LT.
RIM = 725.75
INV. 724.25 12" SE

CATCH BASINS

ST-CB 10
CATCH BASIN, TY A, TY 24 F&G
4' DIA.
STA. 31+96 34.8' LT.
EP = 725.75
INV. 723.08 12" SW
722.56 12" NE

ST-CB 11
CATCH BASIN, TY A, TY 24 F&G
5' DIA.
STA. 32+12 18' RT.
EP = 725.99
INV. 722.07 19"30" W & SE

ST-CB 12
CATCH BASIN, TY A, TY 8 F&G
4' DIA.
STA. 32+41 62' LT.
RIM = 724.40
INV. 722.36 15" E
722.63 12" S

ST-CB 13
CATCH BASIN, TY A, TY 24 F&G
4' DIA.
STA. 32+36 37.3' LT.
EP = 725.72
INV. 722.33 12" W & SE

ST-CB 14
CATCH BASIN, TY C, TY 8 F&G
2' DIA.
STA. 33+00 35' LT.
RIM = 724.80
INV. 722.80 12" E
723.00 8" NW

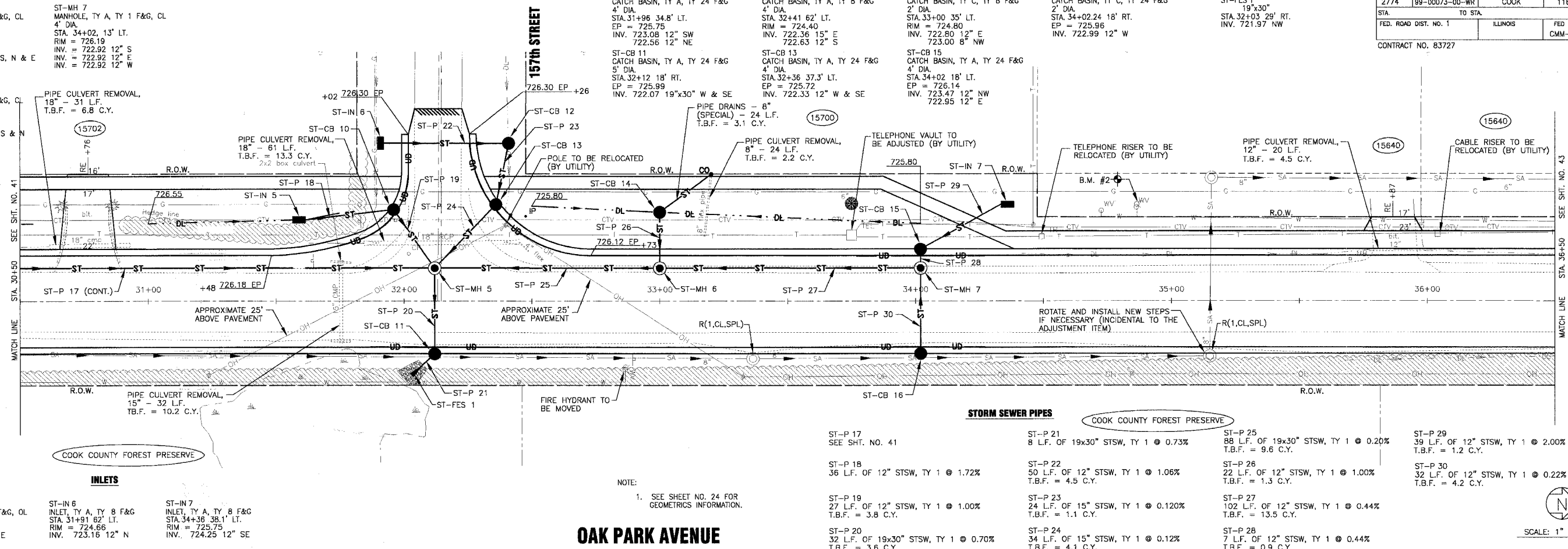
ST-CB 15
CATCH BASIN, TY A, TY 24 F&G
4' DIA.
STA. 34+02 18' LT.
EP = 726.14
INV. 723.47 12" NW
722.95 12" E

ST-CB 16
CATCH BASIN, TY C, TY 24 F&G
2' DIA.
STA. 34+02.24 18' RT.
EP = 725.96
INV. 722.99 12" W

FLARED END SECTION

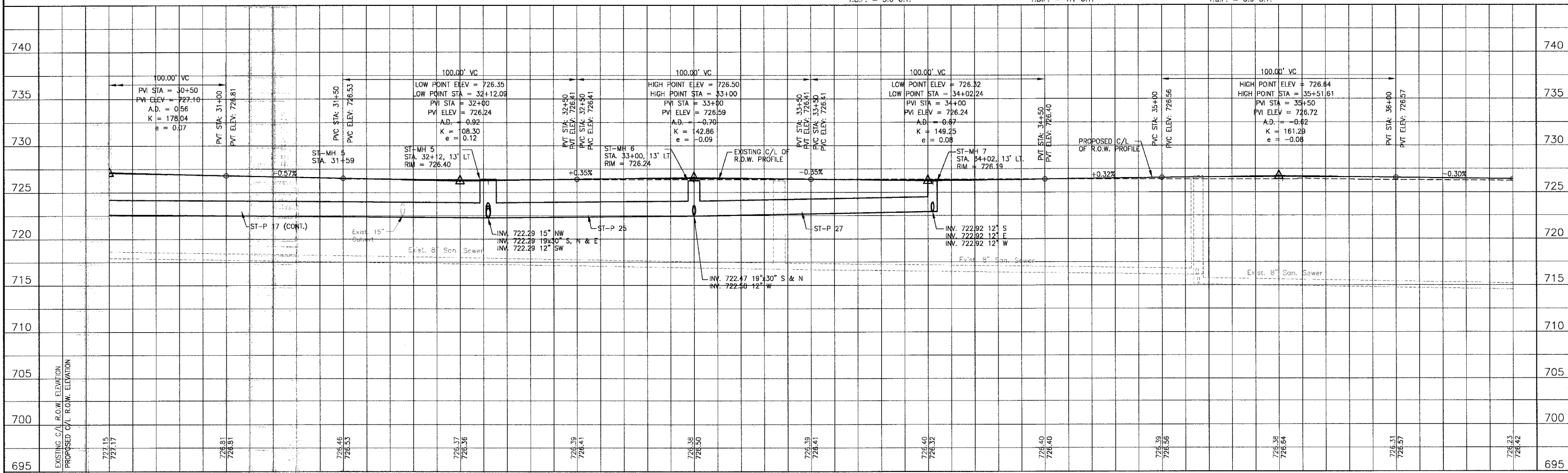
ST-FES 1
19"30"
STA. 32+03 29' RT.
INV. 721.97 NW

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	42
STA.	TO STA.	ILLINOIS	FED AID PROJECT	
FED. ROAD DIST. NO. 1			CMM-7003 (750)	
CONTRACT NO. 83727				



NOTE:
1. SEE SHEET NO. 24 FOR GEOMETRICS INFORMATION.

OAK PARK AVENUE



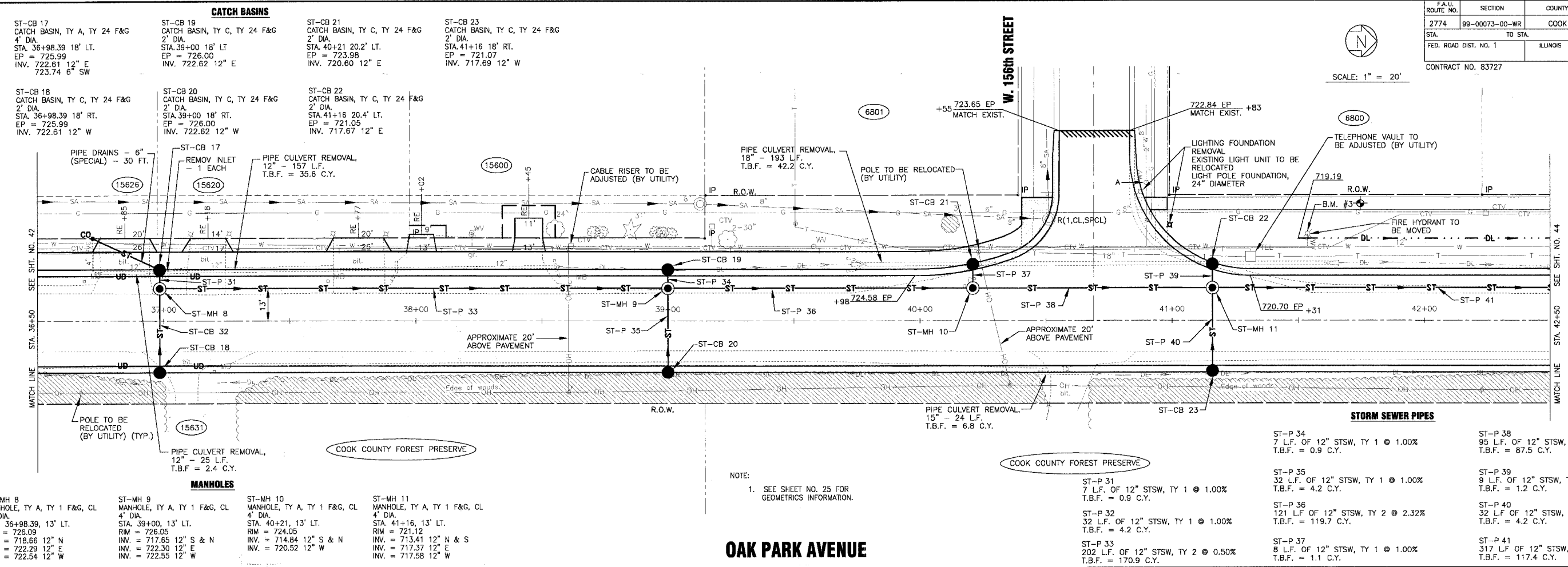
<p>CONSULTANTS</p> <p>REV. NO. DATE DESCRIPTION</p> <p>1. A-28-05-2004 AND COOK COUNTY COMMENTS</p>	<p>BAXTER & WOODMAN</p> <p>Crystal Lake, Illinois 815.439.1260 Durlington, Wisconsin 262.763.7831 Mokona, Illinois 708.478.2090 DeKalb, Illinois 815.787.3111 Crystal Lake, Illinois 847.223.6088 Rockford, Illinois 815.489.1551 Plainfield, Illinois 815.609.7425</p>	<p>CITY OF OAK FOREST, ILLINOIS</p> <p>OAK PARK AVENUE PROJECT</p>	<p>OAK PARK AVENUE</p> <p>STA. 30+50 TO STA. 36+50</p> <p>DRAINAGE AND UTILITY PLAN</p>	<p>DESIGNED BY: NJP DRAWN BY: UKB CHECKED BY: SHELVY DATE: 1-20-05</p> <p>SCALE: VERT: 1"=5' HORIZ: 1"=20'</p> <p>PROJECT NO: 020146 SHEET NO: 42 OF 116</p>
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 Plotted: 4-26-06 @ 12:26pm By: 231ukb
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F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	43
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		
		CMM-7003 (750)		
CONTRACT NO. 83727				



SCALE: 1" = 20'

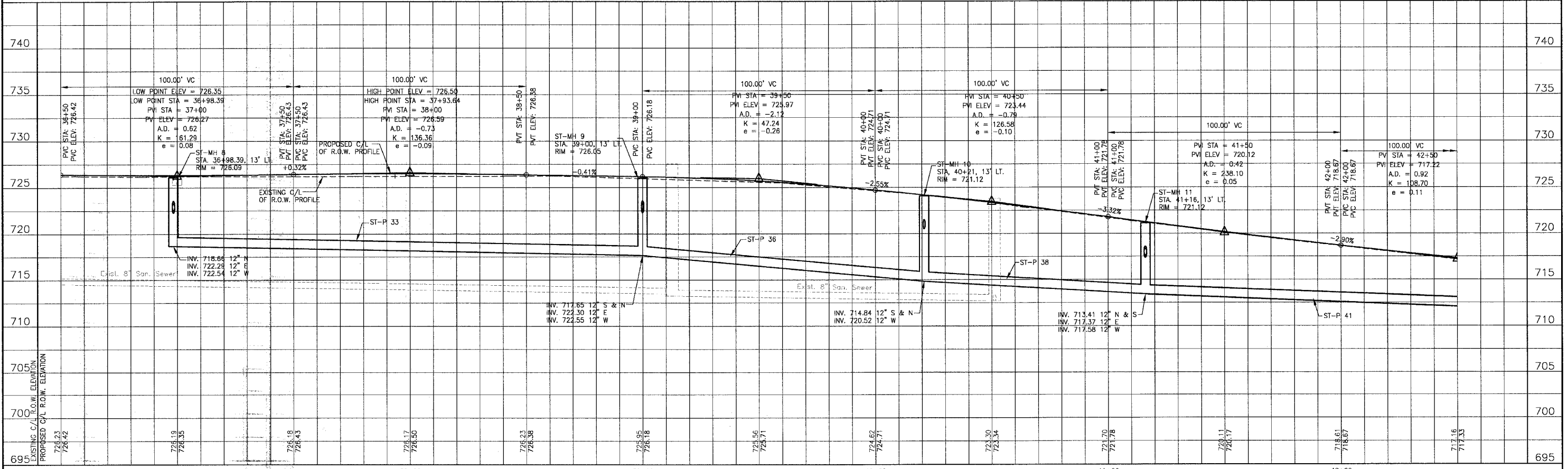


MANHOLES

ST-MH 8 MANHOLE, TY A, TY 1 F&G, CL 4' DIA. STA. 36+98.39, 13' LT. RIM = 726.09 INV. = 718.66 12" N INV. = 722.29 12" E INV. = 722.54 12" W	ST-MH 9 MANHOLE, TY A, TY 1 F&G, CL 4' DIA. STA. 39+00, 13' LT. RIM = 726.05 INV. = 717.65 12" S & N INV. = 722.30 12" E INV. = 722.55 12" W	ST-MH 10 MANHOLE, TY A, TY 1 F&G, CL 4' DIA. STA. 40+21, 13' LT. RIM = 724.05 INV. = 714.84 12" S & N INV. = 720.52 12" W	ST-MH 11 MANHOLE, TY A, TY 1 F&G, CL 4' DIA. STA. 41+16, 13' LT. RIM = 721.12 INV. = 713.41 12" N & S INV. = 717.37 12" E INV. = 717.58 12" W
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NOTE:
1. SEE SHEET NO. 25 FOR GEOMETRICS INFORMATION.

ST-P 34 7 L.F. OF 12" STSW, TY 1 @ 1.00% T.B.F. = 0.9 C.Y.	ST-P 38 95 L.F. OF 12" STSW, TY 2 @ 1.51% T.B.F. = 87.5 C.Y.
ST-P 35 32 L.F. OF 12" STSW, TY 1 @ 1.00% T.B.F. = 4.2 C.Y.	ST-P 39 9 L.F. OF 12" STSW, TY 1 @ 1.00% T.B.F. = 1.2 C.Y.
ST-P 36 121 L.F. OF 12" STSW, TY 2 @ 2.32% T.B.F. = 119.7 C.Y.	ST-P 40 32 L.F. OF 12" STSW, TY 1 @ 1.00% T.B.F. = 4.2 C.Y.
ST-P 37 202 L.F. OF 12" STSW, TY 2 @ 0.50% T.B.F. = 170.9 C.Y.	ST-P 41 317 L.F. OF 12" STSW, TY 1 @ 1.00% T.B.F. = 117.4 C.Y.



CONSULTANTS	DESCRIPTION
1	28-06 PER IDOT AND COOK COUNTY COMMENTS

BAXTER & WOODMAN
Consulting Engineers

Baxter & Woodman
Crystal Lake, Illinois 815.459.1269
Dartington, Wisconsin 262.783.7854
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Grayslake, Illinois 847.223.5088
Rockford, Illinois 815.499.3551
Plainfield, Illinois 815.608.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 36+50 TO STA. 42+50
DRAINAGE AND UTILITY PLAN

DESIGNED BY: NJP
DRAWN BY: TTY
CHECKED BY: UKB
DATE: 1-20-05

SCALE: VERT: 1"=5'
HORIZ: 1"=20'

PROJECT NO.: 020146
SHEET NO.: 43 OF 116

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ST-P 42
8 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 1.1 C.Y.

ST-P 43
14 L.F. OF 15" STSW, TY 1, WATER MAIN QUALITY @ 1.50%

ST-P 44
7 L.F. OF 18" STSW, TY 1 @ 1.00%
T.B.F. = 0.7 C.Y.

ST-P 45
32 L.F. OF 24"x38" RCEP, TY 1 @ 0.13%
T.B.F. = 4.2 C.Y.

ST-P 46
8 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 1.1 C.Y.

ST-P 47
5 L.F. OF 24"x38" STSW, TY 1 @ 0.40%

ST-P 48
105 L.F. OF 12" STSW, TY 1 @ 0.50%
T.B.F. = 14.4 C.Y.

ST-P 49
8 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 1.1 C.Y.

ST-P 50
7 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 0.9 C.Y.

ST-P 51
32 L.F. OF 12" STSW, TY 1 @ 0.63%
T.B.F. = 4.7 C.Y.

ST-P 51A
45 L.F. OF 8" STSW, TY 1, WATER MAIN QUALITY @ 2.0%
T.B.F. = 1.1 C.Y.

ST-P 51B
67 L.F. OF 8" STSW, TY 1, WATER MAIN QUALITY @ 0.90%
T.B.F. = 1.0 C.Y.

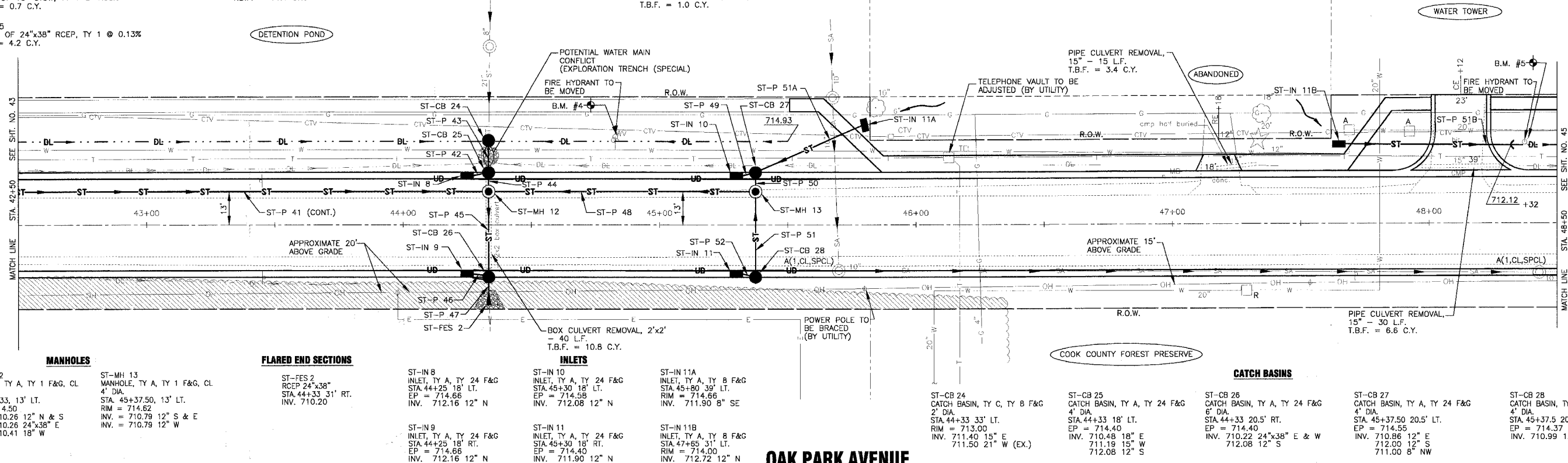
ST-P 52
8 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 1.1 C.Y.

NOTE:
1. SEE SHEET NO. 26 FOR GEOMETRICS INFORMATION.



SCALE: 1" = 20'

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	44
FED. ROAD DIST. NO. 1		ILLINOIS		FED AID PROJECT CMM-7003 (750)
CONTRACT NO. 83727				



MANHOLES
ST-MH 12
MANHOLE, TY A, TY 1 F&G, CL
6' DIA.
STA. 44+33, 13' LT.
RIM = 714.50
INV. = 710.26 12" N & S
710.26 24"x38" E
INV. = 710.41 18" W

ST-MH 13
MANHOLE, TY A, TY 1 F&G, CL
4' DIA.
STA. 45+37.50, 13' LT.
RIM = 714.62
INV. = 710.79 12" S & E
710.79 12" W

FLARED END SECTIONS
ST-FES 2
RCEP 24"x38"
STA. 44+33 31' RT.
INV. 710.20

INLETS
ST-IN 8
INLET, TY A, TY 24 F&G
STA. 44+25 18' LT.
EP = 714.66
INV. 712.16 12" N

ST-IN 10
INLET, TY A, TY 24 F&G
STA. 45+30 18' LT.
EP = 714.58
INV. 712.08 12" N

ST-IN 11A
INLET, TY A, TY 8 F&G
STA. 45+30 39' LT.
RIM = 714.66
INV. 711.90 8" SE

ST-IN 11
INLET, TY A, TY 24 F&G
STA. 44+25 18' RT.
EP = 714.40
INV. 711.90 12" N

ST-IN 11B
INLET, TY A, TY 8 F&G
STA. 47+65 31' LT.
RIM = 714.00
INV. 712.72 12" N

ST-CB 24
CATCH BASIN, TY C, TY 8 F&G
2' DIA.
STA. 44+33 33' LT.
RIM = 713.00
INV. 711.40 15" E
711.50 21" W (EX.)

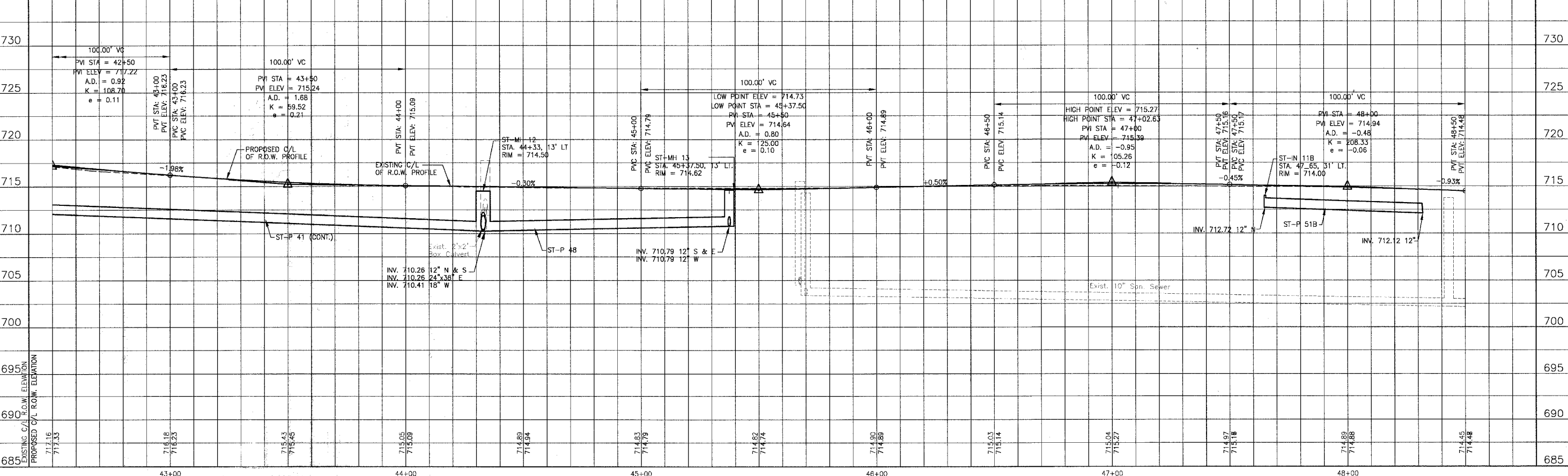
ST-CB 25
CATCH BASIN, TY A, TY 24 F&G
4' DIA.
STA. 44+33 18' LT.
EP = 714.40
INV. 710.48 18" E
711.18 15" W
712.08 12" S

ST-CB 26
CATCH BASIN, TY A, TY 24 F&G
6' DIA.
STA. 44+33 20.5' RT.
EP = 714.40
INV. 710.22 24"x38" E & W
712.08 12" S

ST-CB 27
CATCH BASIN, TY A, TY 24 F&G
4' DIA.
STA. 45+37.50 20.5' RT.
EP = 714.55
INV. 710.86 12" E
712.00 12" S
711.00 8" NW

ST-CB 28
CATCH BASIN, TY A, TY 24 F&G
4' DIA.
STA. 45+37.50 20.5' RT.
EP = 714.37
INV. 710.99 12" W

OAK PARK AVENUE



CONSULTANTS	REV	DESCRIPTION
	1	28-06 PER 1001 AND COOK COUNTY COMMENTS

DATE	BY	DESCRIPTION
11/14/05	NJP	DESIGNED
11/14/05	UKB	DRAWN
11/14/05	NJP	CHECKED
11/14/05	NJP	DATE

BAXTER & WOODMAN
Consulting Engineers
Crystal Lake, Illinois 815.459.1280
Burlington, Wisconsin 262.763.7831
Mokena, Illinois 708.478.2090
Joliet, Illinois 815.787.3111
Grayslake, Illinois 847.523.5088
Rockford, Illinois 815.489.1651
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 42+50 TO STA. 48+50
DRAINAGE AND UTILITY PLAN

DESIGNED BY: NJP
DRAWN BY: UKB
CHECKED BY: NJP
DATE: 11-14-05
SCALE: VERT: 1"=5'
HORIZ: 1"=20'
PROJECT NO.: 020146
SHEET NO.: 44 OF 116

C:\land Projects\2004\MOKEMA-DWGS\DWGS\020146\DWGS\20146-00PRK-00PRF.dwg
 Plotted: 4-26-06 @ 10:37pm By: 231lab
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F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	45
STA. TO STA.		FED. ROAD DIST. NO. 1		ILLINOIS
FED. ROAD DIST. NO. 1			FED AID PROJECT CMM-7003 (750)	

CONTRACT NO. 83727

SCALE: 1" = 20'

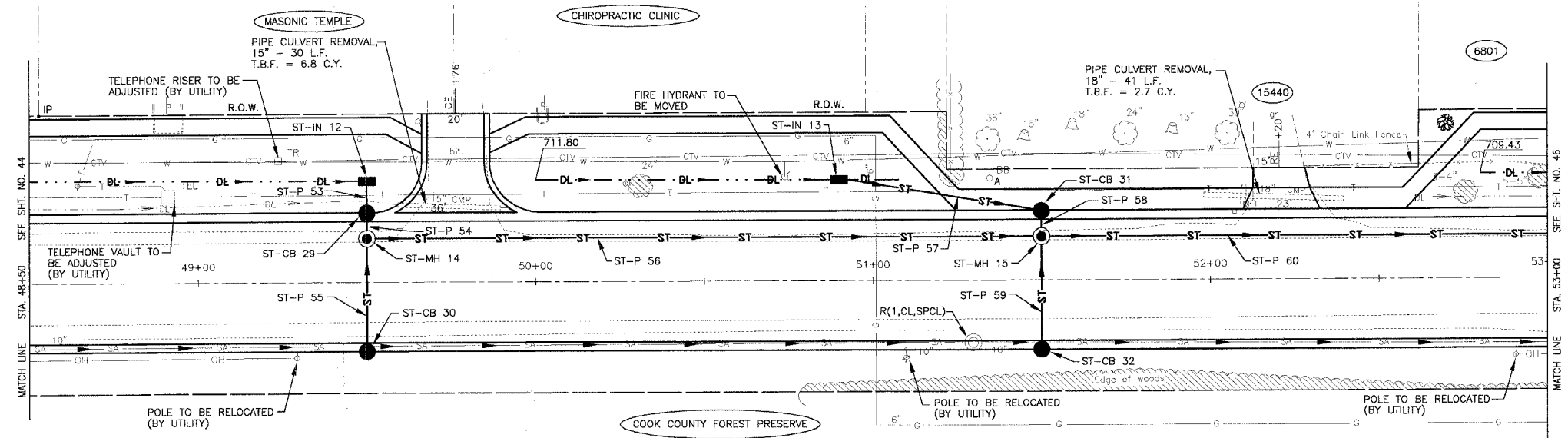
CATCH BASINS

- | | |
|---|--|
| ST-CB 29
CATCH BASIN, TY A, TY 24 F&G
4' DIA.
STA. 49+50 18' LT.
EP = 712.77
INV. 709.39 12" E & W | ST-CB 31
CATCH BASIN, TY C, TY 24 F&G
2' DIA.
STA. 51+50 18' LT.
EP = 710.38
INV. 707.00 12" SW & E |
| ST-CB 30
CATCH BASIN, TY C, TY 24 F&G
2' DIA.
STA. 49+50 18' RT.
EP = 712.77
INV. 709.39 12" W | ST-CB 32
CATCH BASIN, TY C, TY 24 F&G
2' DIA.
STA. 51+50 18' RT.
EP = 710.29
INV. 706.91 12" W |

STORM SEWER PIPES

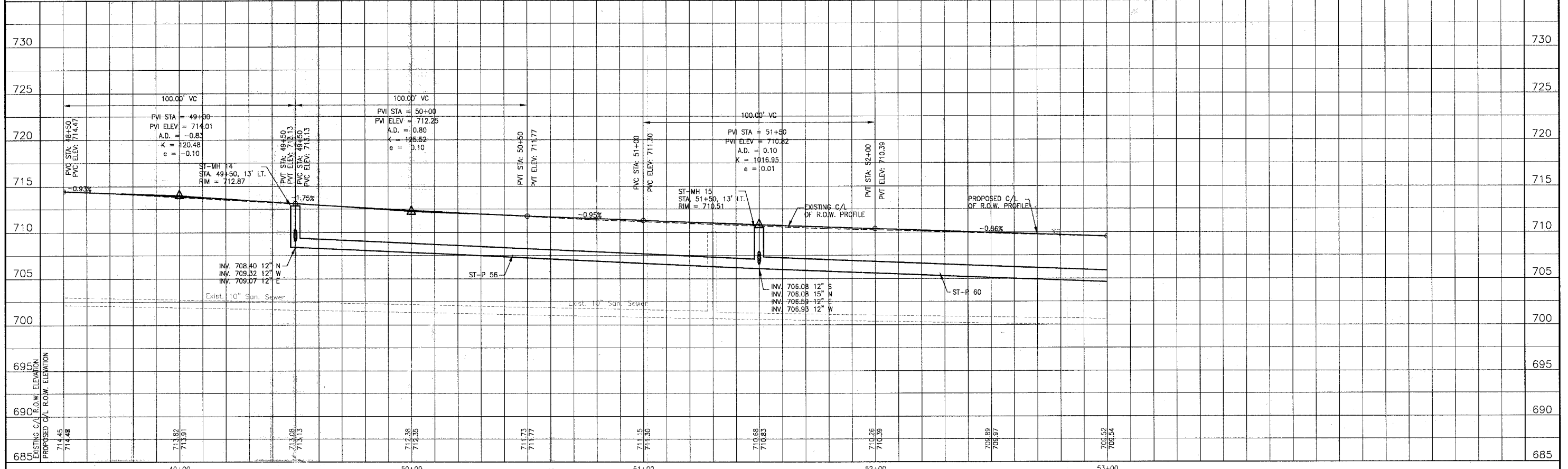
- | | |
|---|---|
| ST-P 53
11 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 0.7 C.Y. | ST-P 57
82 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 4.4 C.Y. |
| ST-P 54
7 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 0.9 C.Y. | ST-P 58
7 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 0.9 C.Y. |
| ST-P 55
32 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 4.2 C.Y. | ST-P 59
32 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 4.2 C.Y. |
| ST-P 56
200 L.F. OF 12" STSW, TY 2 @ 1.16%
T.B.F. = 36.0 C.Y. | ST-P 60
234 L.F. OF 15" STSW, TY 2 @ 0.98%
T.B.F. = 46.1 C.Y. |

NOTE:
1. SEE SHEET NO. 27 FOR GEOMETRICS INFORMATION.



- MANHOLES**
- | | |
|---|--|
| ST-MH 14
MANHOLE, TY A, TY 1 F&G, CL
4' DIA.
STA. 49+50 13' LT.
RIM = 712.87
INV. = 708.40 12" N
INV. = 708.32 12" W
INV. = 709.07 12" E | ST-MH 15
MANHOLE, TY A, TY 1 F&G, CL
4' DIA.
STA. 51+50 13' LT.
RIM = 710.51
INV. = 706.08 15" N
INV. = 706.08 12" S
INV. = 706.59 12" E
INV. = 706.93 12" W |
|---|--|
- INLETS**
- | | |
|--|---|
| ST-IN 12
INLET, TY A, TY 1 F&G, OL
STA. 49+50 30' LT.
RIM = 712.35
INV. = 710.10 12" E | ST-IN 13
INLET, TY A, TY 1 F&G, OL
STA. 50+90 30' LT.
RIM = 711.35
INV. = 708.50 12" NE |
|--|---|

OAK PARK AVENUE



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REV. NO.	DATE	DESCRIPTION
1	4/28/05	DOT AND COOK COUNTY COMMENTS

CONSULTANTS	 Baxter & Woodman Crystal Lake, Illinois 815.458.1260 Burlington, Wisconsin 262.763.7884 Mukwonago, Illinois 708.478.2090 DeKalb, Illinois 815.787.3111 Springdale, Illinois 847.283.8088 Rockford, Illinois 815.406.1551 Plainfield, Illinois 815.609.7425
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CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

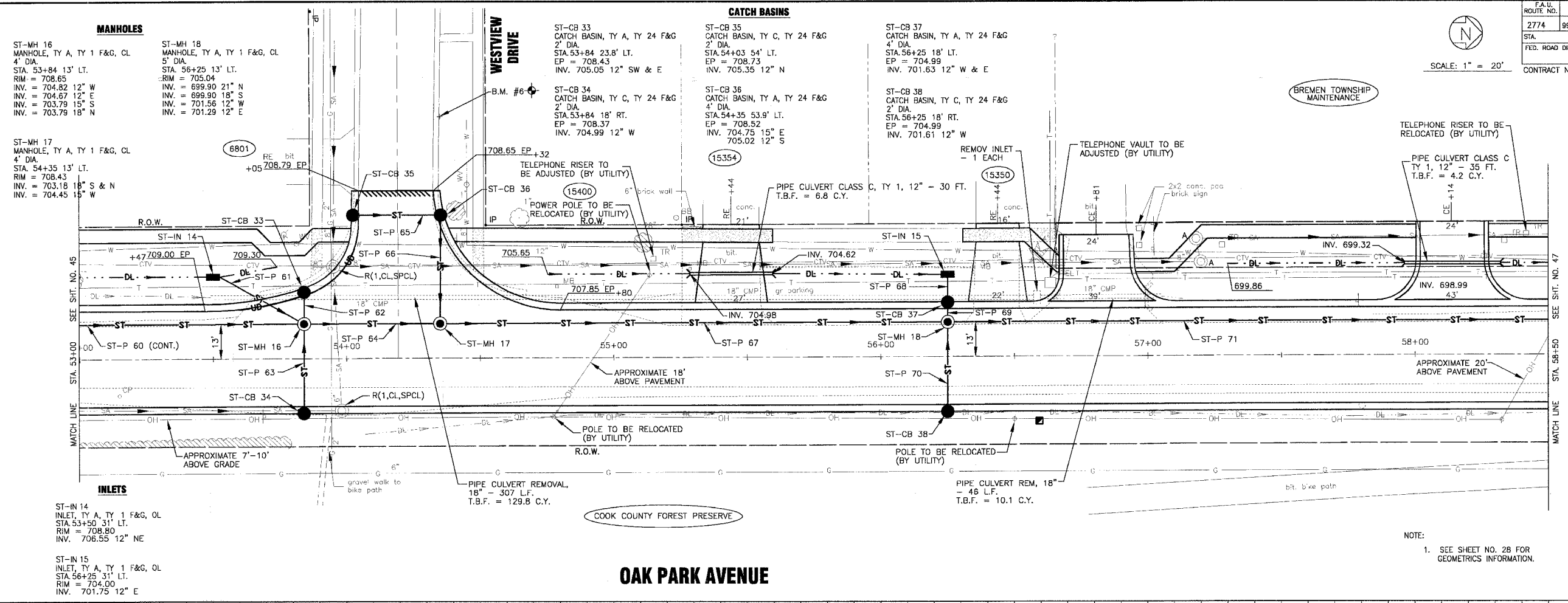
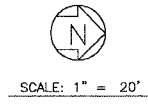
DESIGNED BY: NJP
 DRAWN BY: UKB
 CHECKED BY: NJP
 DATE: 1-20-05

SCALE: VERT: 1"=5'
 HORIZ: 1"=20'

PROJECT NO: 020146
 SHEET NO: 45 OF 116

OAK PARK AVENUE
STA. 48+50 TO STA. 53+00
DRAINAGE AND UTILITY PLAN

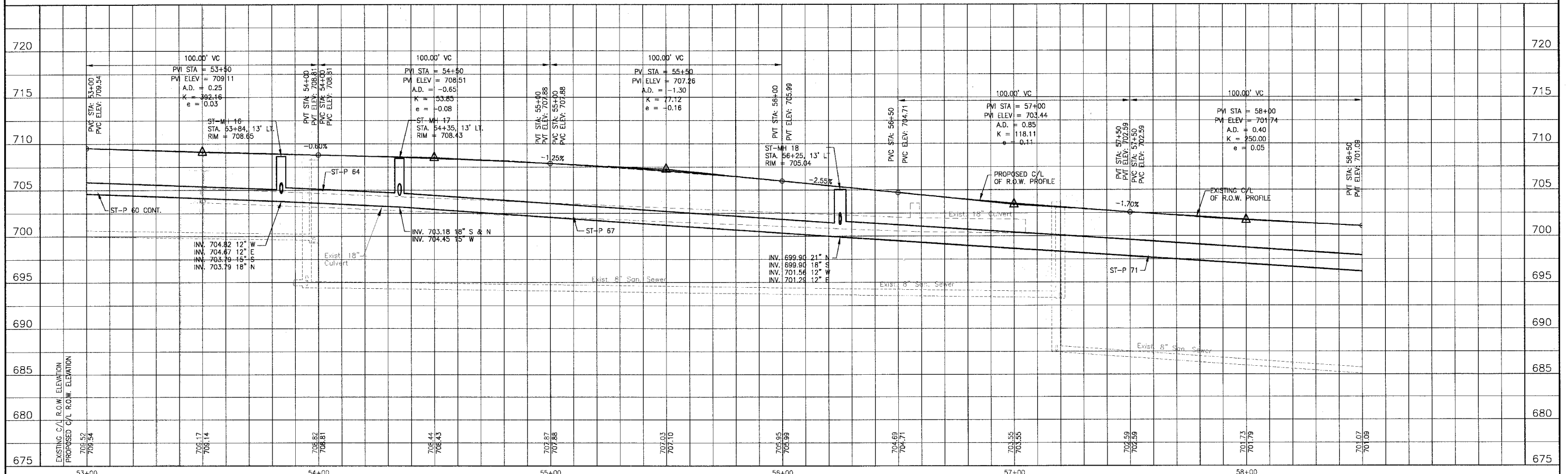
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	46
STA. TO STA.	FED. ROAD DIST. NO. 1		ILLINOIS	
	FED. AID PROJECT		CMM-7003 (750)	
CONTRACT NO. 83727				



- STORM SEWER PIPES**
- ST-P 61
34 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 2.9 C.Y.
 - ST-P 62
11 L.F. OF 12" STSW, TY 1 @ 2.09%
T.B.F. = 1.5 C.Y.
 - ST-P 63
32 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 4.2 C.Y.
 - ST-P 64
51 L.F. OF 18" STSW, TY 2 @ 1.20%
T.B.F. = 11.8 C.Y.
 - ST-P 65
33 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 4.4 C.Y.
 - ST-P 66
30 L.F. OF 15" STSW, TY 1, WATER MAIN
QUALITY @ 1.00%
T.B.F. = 3.7 C.Y.
 - ST-P 67
190 L.F. OF 18" STSW, TY 2 @ 1.73%
T.B.F. = 48.6 C.Y.
 - ST-P 68
12 L.F. OF 12" STSW, TY 1 @ 1.00%
 - ST-P 69
7 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 0.9 C.Y.
 - ST-P 70
32 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 4.2 C.Y.
 - ST-P 71
285 L.F. OF 21" STSW, TY 2 @ 1.65%
T.B.F. = 64.4 C.Y.

NOTE:
1. SEE SHEET NO. 28 FOR GEOMETRICS INFORMATION.

OAK PARK AVENUE



CONSULTANTS	REV. NO.	DATE	DESCRIPTION
BAXTER & WOODMAN Consulting Engineers	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

BAXTER & WOODMAN
Consulting Engineers

Baxter & Woodman
Crystal Lake, Illinois 815.459.1260
Burlington, Wisconsin 262.763.7834
Mokone, Illinois 708.478.1090
DeKalb, Illinois 815.767.3111
Grayslake, Illinois 815.223.6088
Rockford, Illinois 815.489.1651
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 53+00 TO STA. 58+50
DRAINAGE AND UTILITY PLAN

DESIGNED BY: NJP
DRAWN BY: UKB
CHECKED BY: NJP
DATE: 1-20-05

SCALE: VERT: 1"=5'
HORIZ: 1"=20'

PROJECT NO.: 020146
SHEET NO.: 46 OF 116

C:\Lone Projects\2004\WOKEMA-DWG\OAKPARK\020146\DWGS\20146-DPARK-D-18.dwg
 Plotted: 4-28-06 @ 2:31pm By: 231ub
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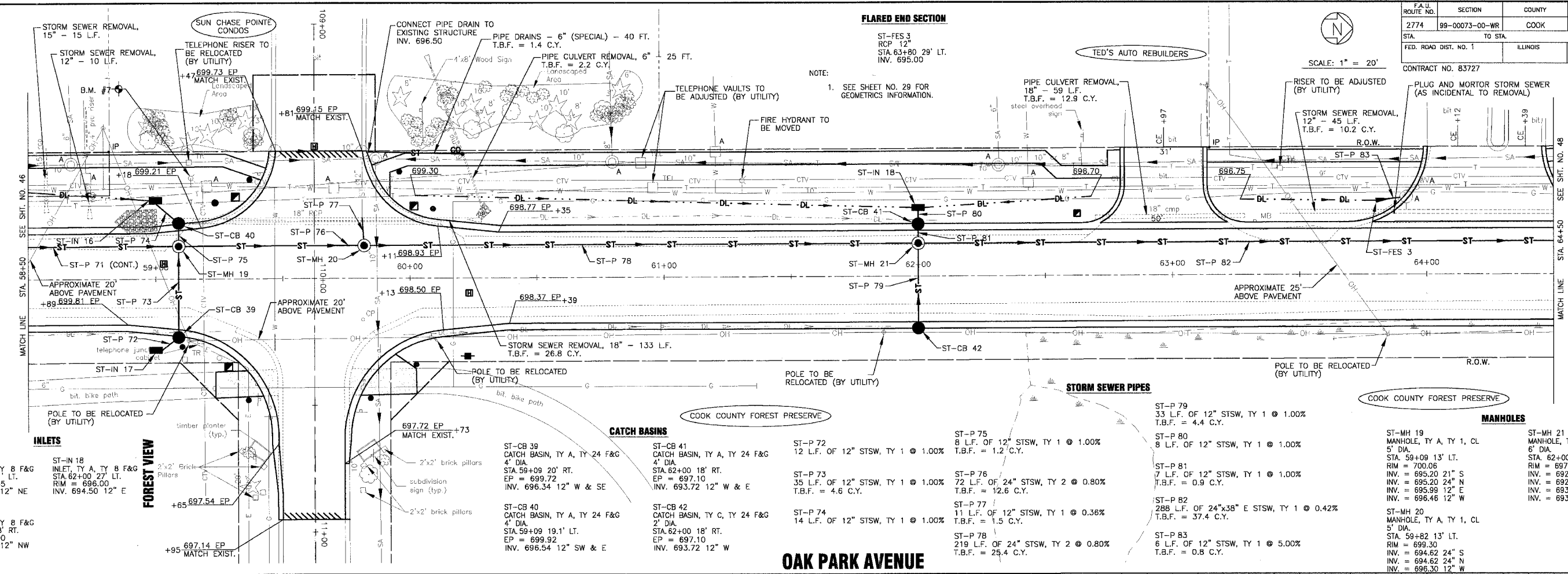


SCALE: 1" = 20'

FLARED END SECTION

ST-FES 3
RCP 12"
STA. 63+80 29' LT.
INV. 695.00

NOTE:
1. SEE SHEET NO. 29 FOR GEOMETRICS INFORMATION.



INLETS
ST-IN 16
INLET, TY A, TY B F&G
STA. 59+00 31' LT.
RIM = 698.45
INV. 696.95 12" NE

INLETS
ST-IN 17
INLET, TY A, TY B F&G
STA. 59+00 28' RT.
RIM = 698.00
INV. 696.50 12" NW

INLETS
ST-IN 18
INLET, TY A, TY B F&G
STA. 62+00 27' LT.
RIM = 696.00
INV. 694.50 12" E

FOREST VIEW
2"x2" Brick Pillars
+65 697.54 EP
+95 697.14 EP MATCH EXIST.

INLETS
ST-IN 16
INLET, TY A, TY B F&G
STA. 59+00 31' LT.
RIM = 698.45
INV. 696.95 12" NE

INLETS
ST-IN 17
INLET, TY A, TY B F&G
STA. 59+00 28' RT.
RIM = 698.00
INV. 696.50 12" NW

INLETS
ST-IN 18
INLET, TY A, TY B F&G
STA. 62+00 27' LT.
RIM = 696.00
INV. 694.50 12" E

FOREST VIEW
2"x2" Brick Pillars
+65 697.54 EP
+95 697.14 EP MATCH EXIST.

INLETS
ST-IN 16
INLET, TY A, TY B F&G
STA. 59+00 31' LT.
RIM = 698.45
INV. 696.95 12" NE

INLETS
ST-IN 17
INLET, TY A, TY B F&G
STA. 59+00 28' RT.
RIM = 698.00
INV. 696.50 12" NW

INLETS
ST-IN 18
INLET, TY A, TY B F&G
STA. 62+00 27' LT.
RIM = 696.00
INV. 694.50 12" E

FOREST VIEW
2"x2" Brick Pillars
+65 697.54 EP
+95 697.14 EP MATCH EXIST.

INLETS
ST-IN 16
INLET, TY A, TY B F&G
STA. 59+00 31' LT.
RIM = 698.45
INV. 696.95 12" NE

INLETS
ST-IN 17
INLET, TY A, TY B F&G
STA. 59+00 28' RT.
RIM = 698.00
INV. 696.50 12" NW

INLETS
ST-IN 18
INLET, TY A, TY B F&G
STA. 62+00 27' LT.
RIM = 696.00
INV. 694.50 12" E

FOREST VIEW
2"x2" Brick Pillars
+65 697.54 EP
+95 697.14 EP MATCH EXIST.

INLETS
ST-IN 16
INLET, TY A, TY B F&G
STA. 59+00 31' LT.
RIM = 698.45
INV. 696.95 12" NE

INLETS
ST-IN 17
INLET, TY A, TY B F&G
STA. 59+00 28' RT.
RIM = 698.00
INV. 696.50 12" NW

INLETS
ST-IN 18
INLET, TY A, TY B F&G
STA. 62+00 27' LT.
RIM = 696.00
INV. 694.50 12" E

FOREST VIEW
2"x2" Brick Pillars
+65 697.54 EP
+95 697.14 EP MATCH EXIST.

INLETS
ST-IN 16
INLET, TY A, TY B F&G
STA. 59+00 31' LT.
RIM = 698.45
INV. 696.95 12" NE

INLETS
ST-IN 17
INLET, TY A, TY B F&G
STA. 59+00 28' RT.
RIM = 698.00
INV. 696.50 12" NW

INLETS
ST-IN 18
INLET, TY A, TY B F&G
STA. 62+00 27' LT.
RIM = 696.00
INV. 694.50 12" E

FOREST VIEW
2"x2" Brick Pillars
+65 697.54 EP
+95 697.14 EP MATCH EXIST.

INLETS
ST-IN 16
INLET, TY A, TY B F&G
STA. 59+00 31' LT.
RIM = 698.45
INV. 696.95 12" NE

INLETS
ST-IN 17
INLET, TY A, TY B F&G
STA. 59+00 28' RT.
RIM = 698.00
INV. 696.50 12" NW

INLETS
ST-IN 18
INLET, TY A, TY B F&G
STA. 62+00 27' LT.
RIM = 696.00
INV. 694.50 12" E

FOREST VIEW
2"x2" Brick Pillars
+65 697.54 EP
+95 697.14 EP MATCH EXIST.

CATCH BASINS

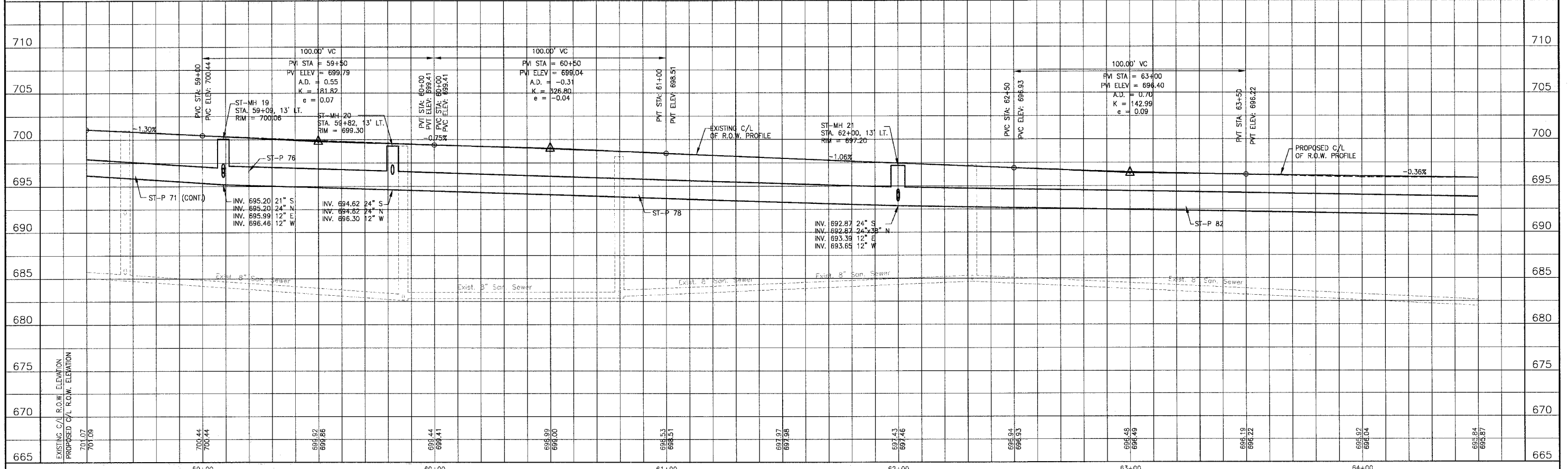
ST-CB 39
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 59+09 20' RT.
EP = 699.72
INV. 696.34 12" W & SE

ST-CB 40
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 59+09 19.1' LT.
EP = 699.92
INV. 696.54 12" SW & E

ST-CB 41
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 62+00 18' RT.
EP = 697.10
INV. 693.72 12" W & E

ST-CB 42
CATCH BASIN, TY C, TY 24 F&G
2" DIA.
STA. 62+00 18' RT.
EP = 697.10
INV. 693.72 12" W

OAK PARK AVENUE



CONSULTANTS	REV. NO.	DATE	DESCRIPTION
BAXTER & WOODMAN Consulting Engineers	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

REV. NO.	DATE	DESCRIPTION
1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

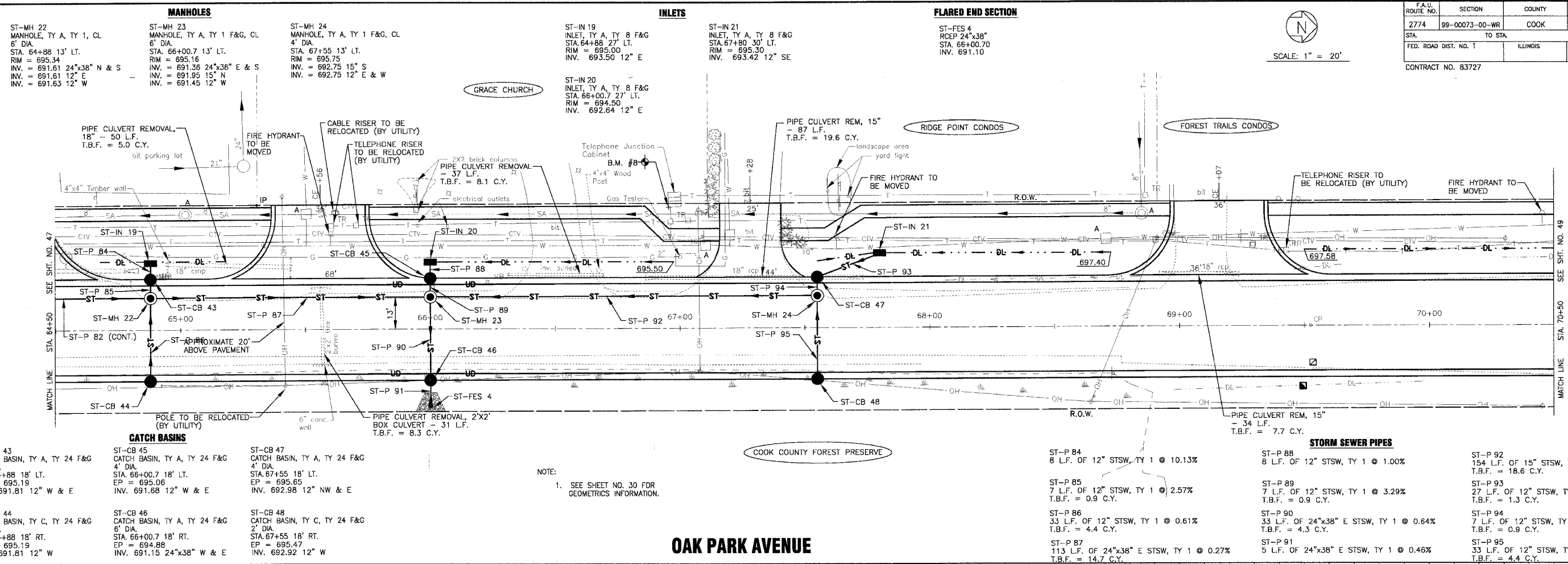
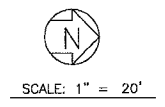
BAXTER & WOODMAN
Consulting Engineers
Crystal Lake, Illinois 815.489.1260
Burlington, Wisconsin 262.769.7834
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Crestview, Illinois 847.223.6086
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

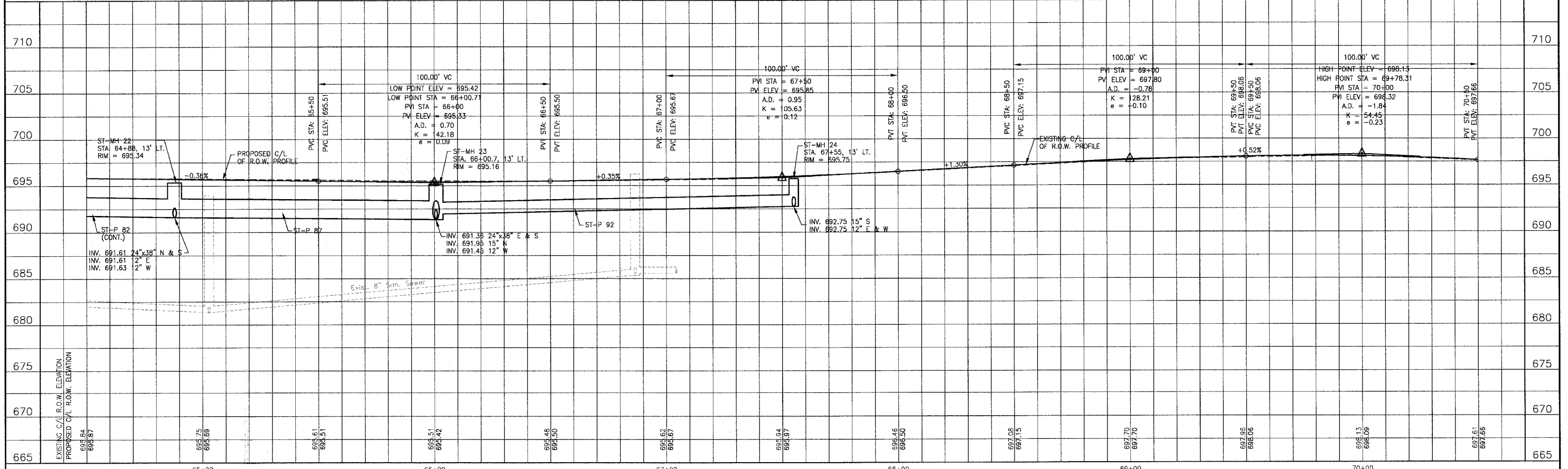
OAK PARK AVENUE
STA. 58+50 TO STA. 64+50
DRAINAGE AND UTILITY PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5' HORIZ: 1"=20'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	47 OF 116

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OAK PARK AVENUE

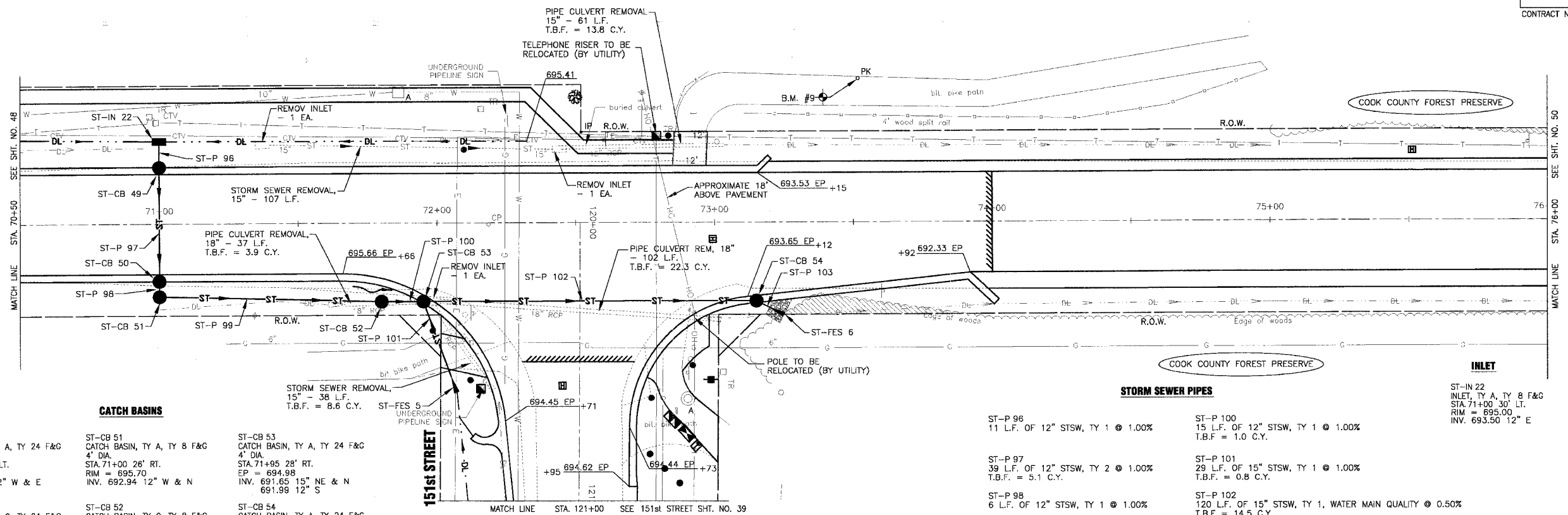


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<p>CONSULTANTS</p> <p>Baxter & Woodman Crystal Lake, Illinois 815.458.1260 Burlington, Wisconsin 262.763.7834 Mokena, Illinois 708.478.2090 DeKalb, Illinois 815.787.3111 Crestwood, Illinois 847.233.5088 Rockford, Illinois 815.488.1551 Plainfield, Illinois 815.609.7425</p>	<p>REV. NO. DATE DESCRIPTION</p> <p>1 4-28-06 PER IDOT AND COOK COUNTY COMMENTS</p>	<p>CITY OF OAK FOREST, ILLINOIS OAK PARK AVENUE PROJECT</p>	<p>OAK PARK AVENUE STA. 64+50 TO STA. 70+50 DRAINAGE AND UTILITY PLAN</p>	<p>DESIGNED BY: NJP DRAWN BY: UKB CHECKED BY: NJP DATE: 1-20-05</p> <p>SCALE: VERT: 1"=5' HORIZ: 1"=20'</p> <p>PROJECT NO: 020146 SHEET NO: 48 OF 116</p>
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SCALE: 1" = 20'



CATCH BASINS

- | | | |
|---|---|--|
| ST-CB 49
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 71+00 18' LT.
EP = 696.46
INV. 693.39 12" W & E | ST-CB 51
CATCH BASIN, TY A, TY 8 F&G
4" DIA.
STA. 71+00 26' RT.
RIM = 695.70
INV. 692.94 12" W & N | ST-CB 53
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 71+95 28' RT.
EP = 694.98
INV. 691.65 15" NE & N
691.99 12" S |
| ST-CB 50
CATCH BASIN, TY C, TY 24 F&G
2" DIA.
STA. 71+00 18' RT.
EP = 696.64
INV. 693.00 12" E & W | ST-CB 52
CATCH BASIN, TY C, TY 8 F&G
2" DIA.
STA. 71+80 28' RT.
RIM = 694.44
INV. 692.14 12" N & S | ST-CB 54
CATCH BASIN, TY A, TY 24 F&G
4" DIA.
STA. 73+15 28' RT.
EP = 693.55
INV. 691.05 15" S & NE |

STORM SEWER PIPES

- | | |
|---|--|
| ST-P 96
11 L.F. OF 12" STSW, TY 1 @ 1.00% | ST-P 100
15 L.F. OF 12" STSW, TY 1 @ 1.00%
T.B.F. = 1.0 C.Y. |
| ST-P 97
39 L.F. OF 12" STSW, TY 2 @ 1.00%
T.B.F. = 5.1 C.Y. | ST-P 101
29 L.F. OF 15" STSW, TY 1 @ 1.00%
T.B.F. = 0.8 C.Y. |
| ST-P 98
6 L.F. OF 12" STSW, TY 1 @ 1.00% | ST-P 102
120 L.F. OF 15" STSW, TY 1, WATER MAIN QUALITY @ 0.50%
T.B.F. = 14.5 C.Y. |
| ST-P 99
80 L.F. OF 12" STSW, TY 1 @ 1.00% | ST-P 103
5 L.F. OF 15" STSW, TY 1 @ 0.50%
T.B.F. = 0.6 C.Y. |

INLET

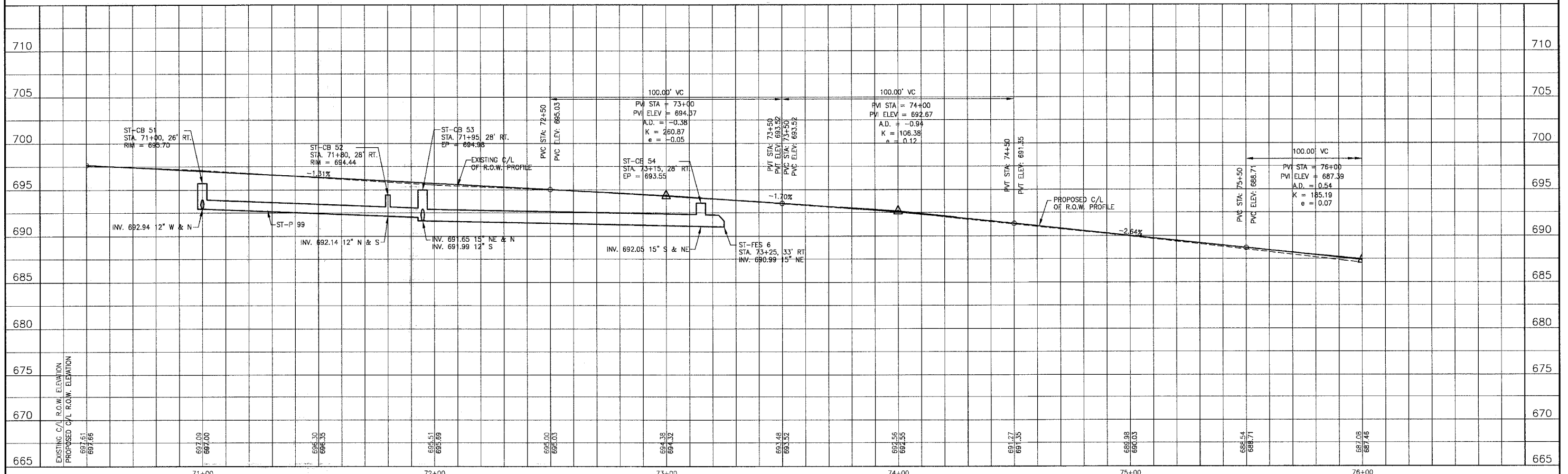
ST-IN 22
INLET, TY A, TY 8 F&G
STA. 71+00 30' LT.
RIM = 695.00
INV. 693.50 12" E

FLARED END SECTIONS

- | | |
|--|--|
| ST-FES 5
RCP 15"
STA. 72+07 61' RT.
INV. 692.00 | ST-FES 6
RCP 15"
STA. 73+25 33' RT.
INV. 690.99 |
|--|--|

NOTE:
1. SEE SHEET NO. 31 FOR GEOMETRICS INFORMATION.

OAK PARK AVENUE



REV. NO.	DATE	DESCRIPTION
1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

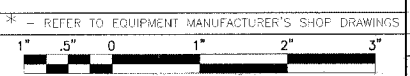
BAXTER & WOODMAN
Consulting Engineers
Crystal Lake, Illinois 815.459.1260
Durlington, Wisconsin 262.763.7031
Mokena, Illinois 708.478.5090
DeKalb, Illinois 815.787.3111
Garylake, Illinois 847.233.5988
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 70+50 TO STA. 76+00
DRAINAGE AND UTILITY PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5' HORIZ: 1"=20'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	49 OF 116

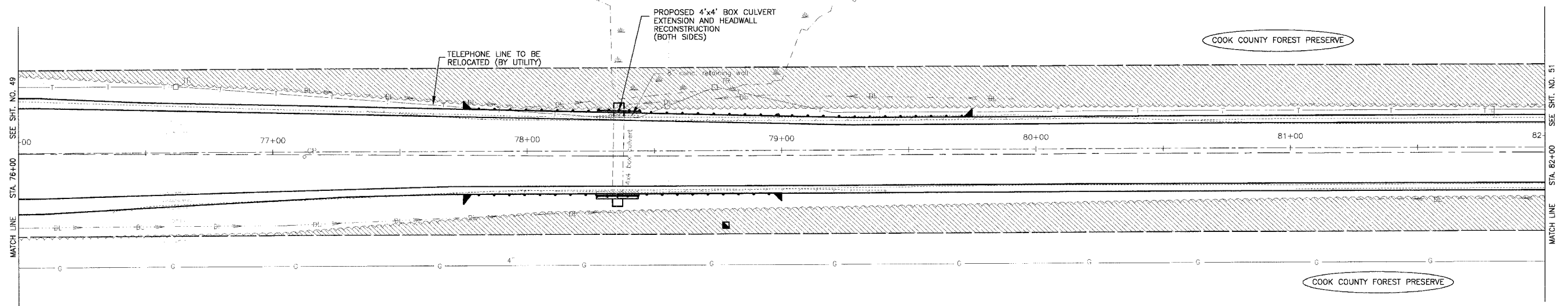
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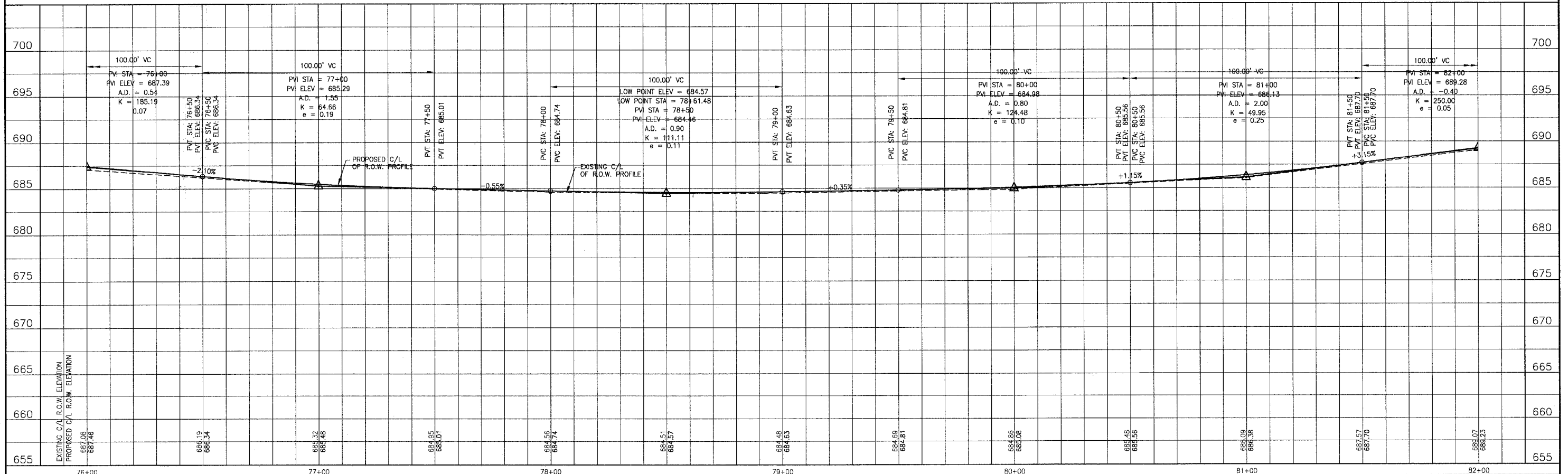
SCALE: 1" = 20'

F.A.I. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	50
STA.	TO STA.		FED AID PROJECT	
FED. ROAD DIST. NO. 1	ILLINOIS		CMM-7003 (750)	
CONTRACT NO. 83727				



NOTE:
1. SEE SHEET NO. 32 FOR GEOMETRICS INFORMATION.

OAK PARK AVENUE



REV. NO.	DATE	DESCRIPTION
1	4-28-06	PER 'DOT AND COOK COUNTY COMMENTS

CONSULTANTS
BAXTER & WOODMAN Consulting Engineers

BAXTER & WOODMAN
Consulting Engineers

Baxter & Woodman
Crystal Lake, Illinois 815.459.1260
Burlington, Wisconsin 262.763.7834
Mokena, Illinois 708.478.2099
DeKalb, Illinois 815.787.9111
Grayslake, Illinois 847.823.5069
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 76+00 TO STA. 82+00
DRAINAGE AND UTILITY PLAN

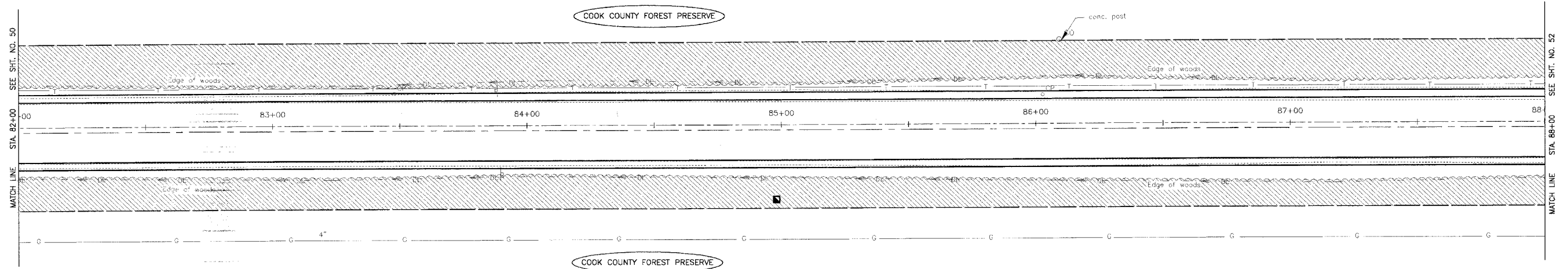
DESIGNED BY	SCALE	VERT: 1"=5'
NJP	HORIZ: 1"=20'	
DRAWN BY	PROJECT NO.	
UKB	020146	
CHECKED BY	SHEET NO.	
NJP		
DATE		
1-20-05		

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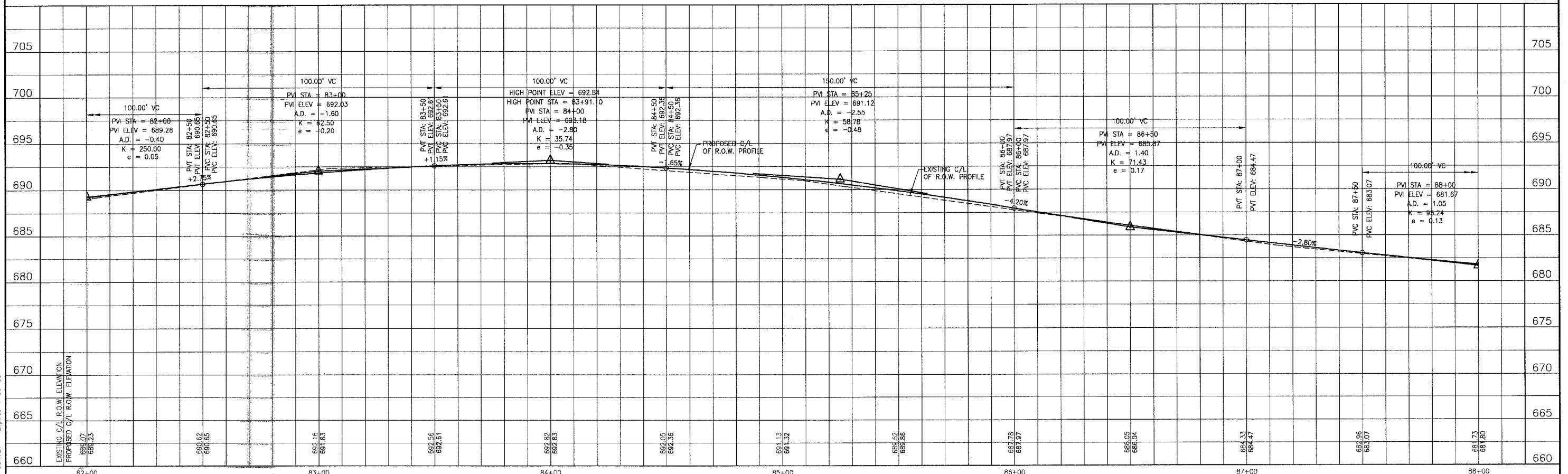
SCALE: 1" = 20'

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	51
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT	
CONTRACT NO. 83727			CMM-7003 (750)	



NOTE:
1. SEE SHEET NO. 33 FOR GEOMETRICS INFORMATION.

OAK PARK AVENUE



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

Baxter & Woodman
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2099
 DuSable, Illinois 815.757.3111
 Graylake, Illinois 815.225.5058
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

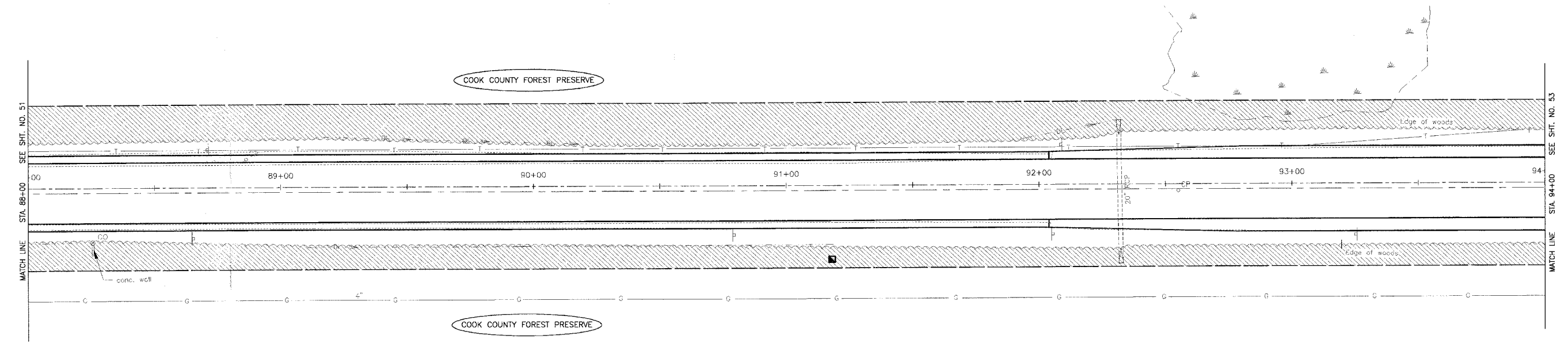
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 82+00 TO STA. 88+00
DRAINAGE AND UTILITY PLAN

DESIGNED BY	NJP	SCALE	VERT: 1"=5'
DRAWN BY	UKB	HORIZ: 1"=20'	
CHECKED BY	NJP	PROJECT NO.	020146
DATE	1-20-05	SHEET NO.	51 OF 116

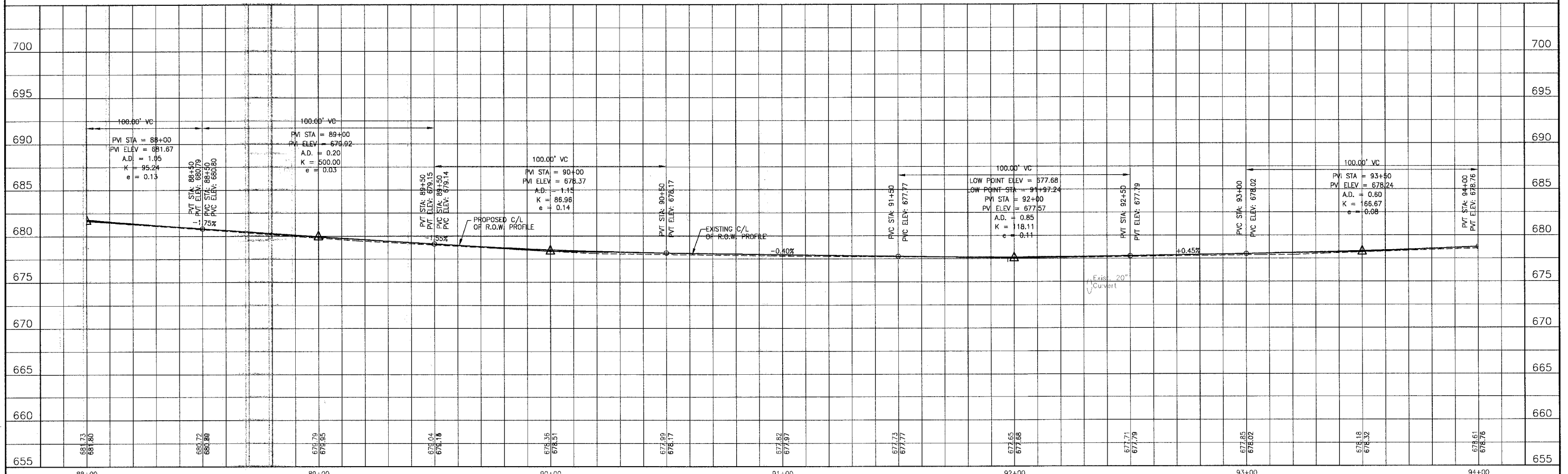
SCALE: 1" = 20'

F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	52
STA. TO STA.	ILLINOIS		FED AID PROJECT	
FED. ROAD DIST. NO. 1			CMM-7003 (750)	
CONTRACT NO. 83727				



NOTE:
1. SEE SHEET NO. 34 FOR GEOMETRICS INFORMATION.

OAK PARK AVENUE



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REV	DATE	DESCRIPTION
1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

1" = 5' 0" 1" 2" 3"

BAXTER & WOODMAN
Consulting Engineers

Baxter & Woodman
Crystal Lake, Illinois 815.458.1260
Burlington, Wisconsin 262.763.7831
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.2111
Grapeville, Illinois 847.233.6088
Rockford, Illinois 815.489.1951
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

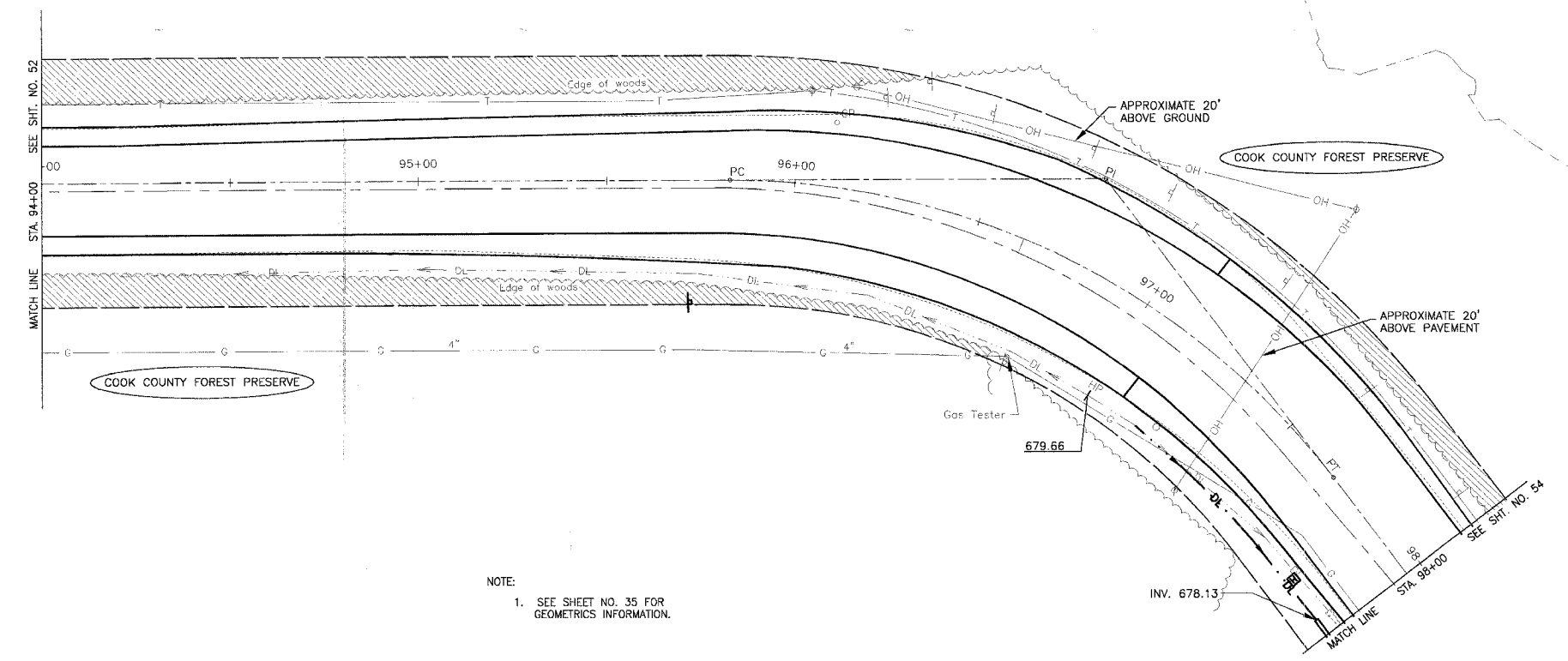
OAK PARK AVENUE
STA. 88+00 TO STA. 94+00
DRAINAGE AND UTILITY PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5'
DRAWN BY UKB	HORIZ: 1"=20'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 52 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	53
STA.	TO STA.		FED AID PROJECT	
FED. ROAD DIST. NO. 1	ILLINOIS		CMM-7003 (750)	
CONTRACT NO. 83727				

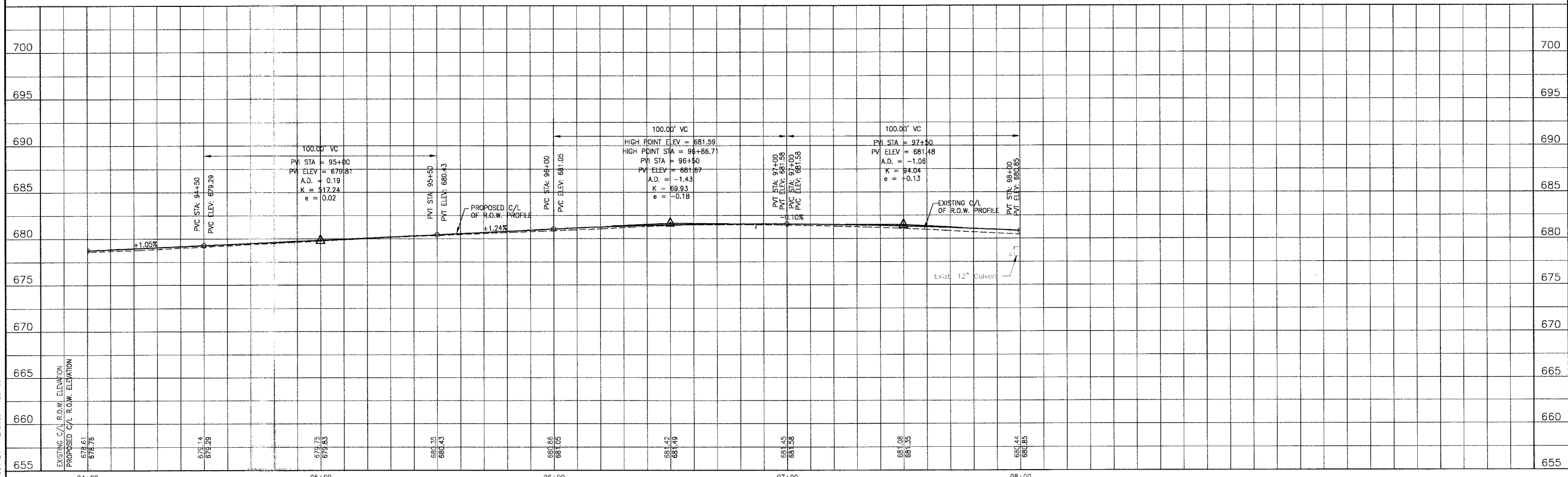


SCALE: 1" = 20'



NOTE:
1. SEE SHEET NO. 35 FOR GEOMETRICS INFORMATION.

OAK PARK AVENUE



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CONSULTANTS	REV	DESCRIPTION
	1	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
Consulting Engineers

Barter & Woodman
Crystal Lake, Illinois 815.459.1260
Burlington, Wisconsin 262.763.7834
Mokena, Illinois 708.478.2080
DeKalb, Illinois 815.787.3111
Grapeville, Illinois 847.233.2088
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.609.7425

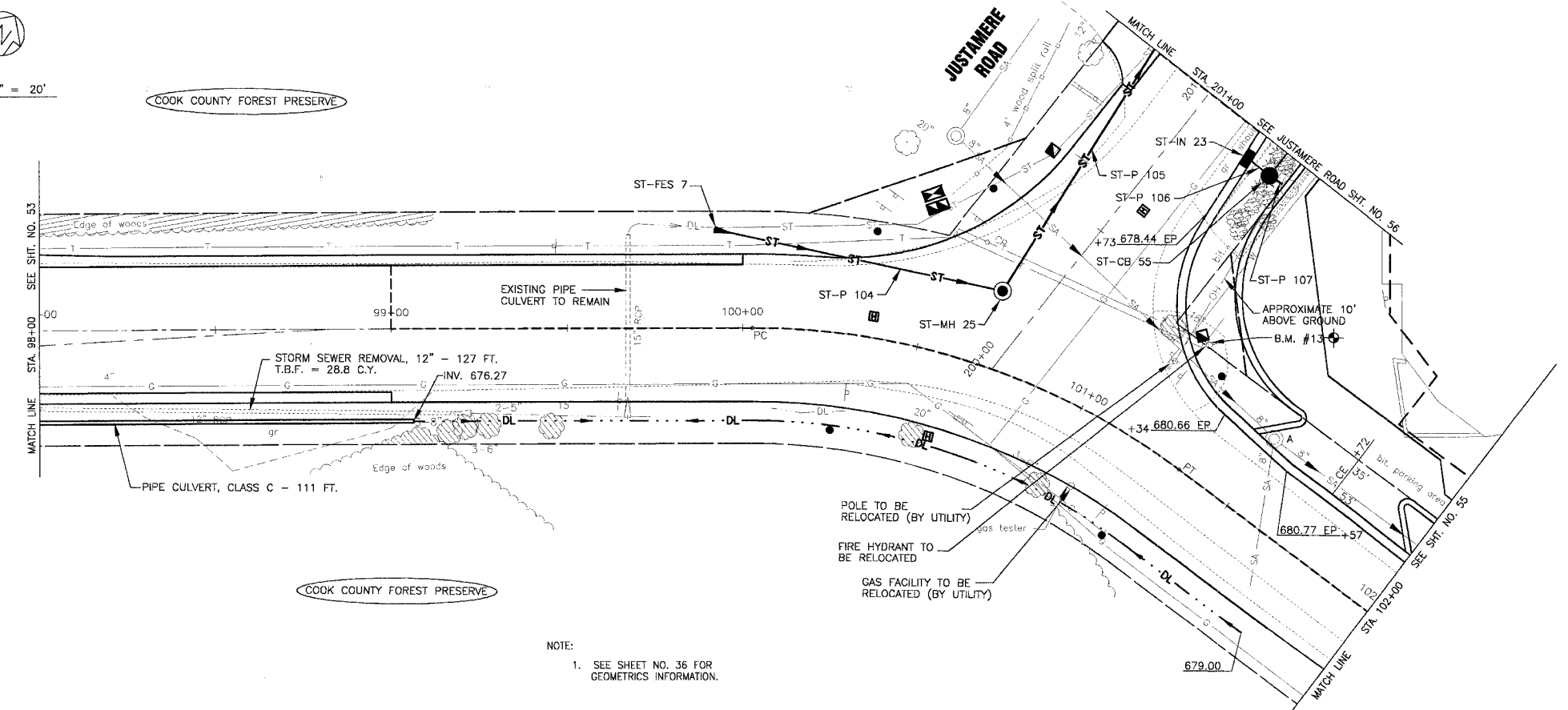
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE
STA. 94+00 TO STA. 98+00
DRAINAGE AND UTILITY PLAN

DESIGNED BY: NJP	SCALE: VERT: 1"=5'
DRAWN BY: UKB	HORIZ: 1"=20'
CHECKED BY: NJP	PROJECT NO: 020146
DATE: 1-20-05	SHEET NO: 53 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	54
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT CMM-700.3 (750)		
CONTRACT NO. 83727				

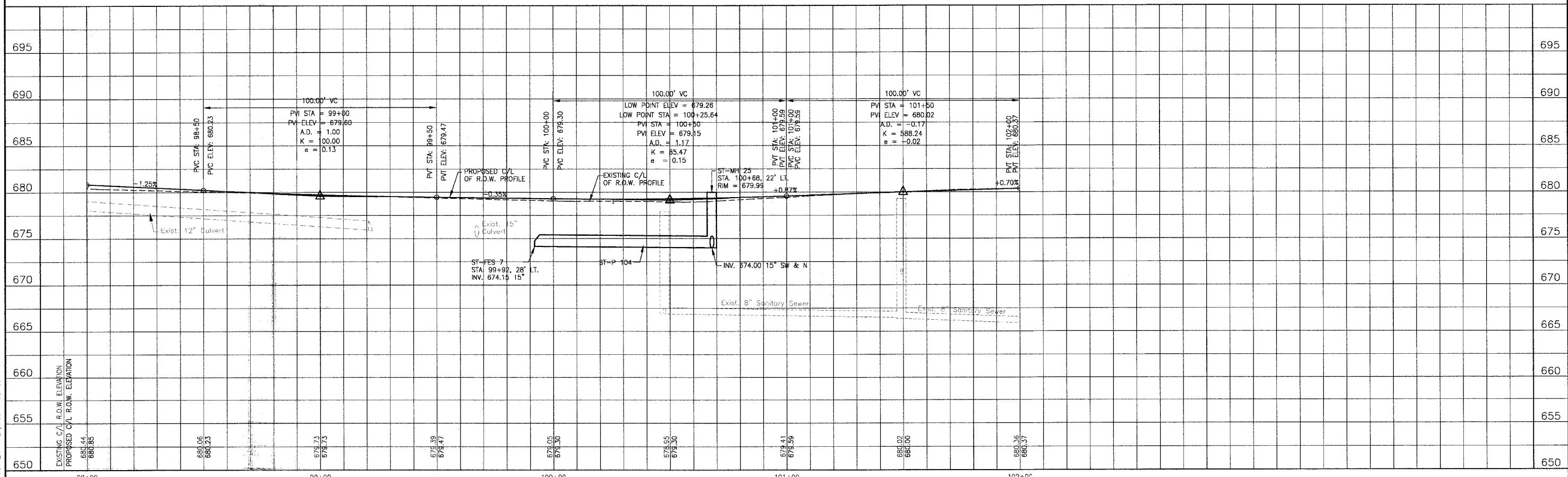
SCALE: 1" = 20'



- MANHOLES**
- ST-MH 25
MANHOLE, TY A, TY 1 FR, CL
4" DIA.
STA. 100+68, 22' LT.
RIM = 679.99
INV. = 674.00 15" SW & N
- FLARED END SECTION**
- ST-FES 7
RCP 15"
STA. 99+92 28' LT.
INV. 674.15
- CATCH BASINS**
- ST-CB 55
CATCH BASIN, TY A, TY 8 F&G
4" DIA.
SEE JUSTAMERE ROAD FOR
RIM AND INVERT INFORMATION.
- INLETS**
- ST-IN 23
INLET, TY A, TY 24 F&G
SEE JUSTAMERE ROAD FOR
EP AND INVERT INFORMATION
- STORM SEWER PIPES**
- ST-P 104
76 L.F. OF 15" STSW, TY 2 @ 0.16%
T.B.F. = 21.1 C.Y.
 - ST-P 105
154 L.F. OF 15" STSW, TY 2 @ 0.16%
T.B.F. = 54.2 C.Y.
 - ST-P 106
8 L.F. OF 12" STSW, TY 1 @ 1.0%
T.B.F. = 0.6 C.Y.
 - ST-P 107
6 L.F. OF 12" STSW, TY 1 @ ???
T.B.F. = 0.9 C.Y.

NOTE:
1. SEE SHEET NO. 36 FOR GEOMETRICS INFORMATION.

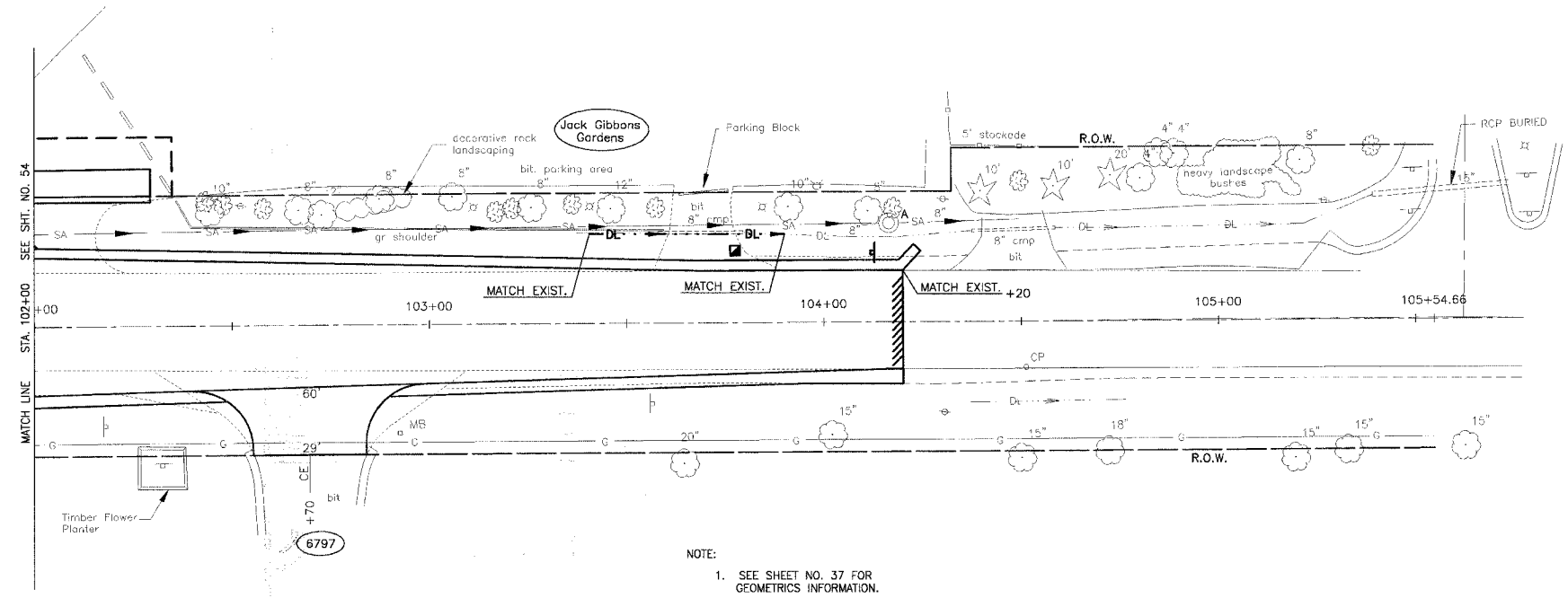
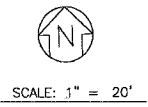
OAK PARK AVENUE / 147th STREET



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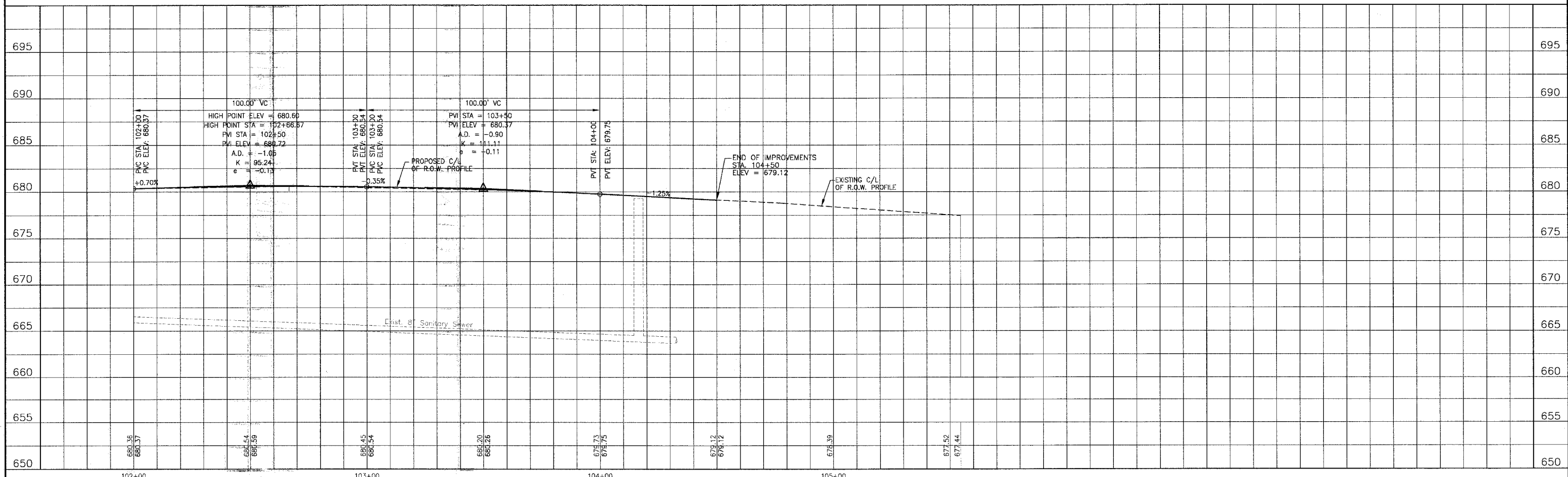
CONSULTANTS BAXTER & WOODMAN Consulting Engineers Crystal Lake, Illinois 815.459.1260 Burlington, Wisconsin 262.763.7034 Mokena, Illinois 708.478.5090 DeKalb, Illinois 815.787.3111 Grayslake, Illinois 847.223.9088 Rockford, Illinois 815.488.1551 Plainfield, Illinois 815.609.7425		CITY OF OAK FOREST, ILLINOIS OAK PARK AVENUE PROJECT		OAK PARK AVENUE / 147TH STREET STA. 98+00 TO STA. 102+00 DRAINAGE AND UTILITY PLAN		DESIGNED BY: NJP DRAWN BY: UKB CHECKED BY: NJP DATE: 1-20-05 SCALE: VERT: 1"=5' HORIZ: 1"=20' PROJECT NO.: 020146 SHEET NO.: 54 OF 116	
REV. NO. 1 DESCRIPTION: PER IDOT AND COOK COUNTY COMMENTS		* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS		1" 0.5" 1" 2" 3"			

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	55
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



NOTE:
1. SEE SHEET NO. 37 FOR GEOMETRICS INFORMATION.

147th STREET



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REV.	DESCRIPTION
1	4-26-06 PER IDOT AND COOK COUNTY COMMENTS

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BAKTER & WOODMAN
Consulting Engineers

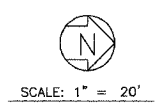
Baxter & Woodman
Crystal Lake, Illinois 815.459.1260
Burlington, Wisconsin 262.763.7834
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Orland Park, Illinois 815.233.5088
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.608.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

147th STREET
STA. 102+00 TO STA. 105+54.66
DRAINAGE AND UTILITY PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5'
DRAWN BY UKB	HORIZ: 1"=20'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 55 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	56
STA.	TO STA.		FED. ROAD DIST. NO. 1	
			ILLINOIS	
			FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



STORM SEWER PIPES

- ST-P 105
SEE OAK PARK AVE/147TH ST. SHT. NO.
- ST-P 108
237 L.F. OF 12" STSW, TY 1 @ 2.0%
T.B.F. = 14.6 C.Y.
- ST-P 109
10 L.F. OF 12" STSW, TY 1 @ 9.6%
T.B.F. = 0.9 C.Y.
- ST-P 110
89 L.F. OF 12" STSW, TY 1 @ 1.5%
T.B.F. = 4.6 C.Y.
- ST-P 111
9 L.F. OF 10" STSW, TY 1 @ 2.0%
T.B.F. = 1.2 C.Y.

FLARED END SECTION

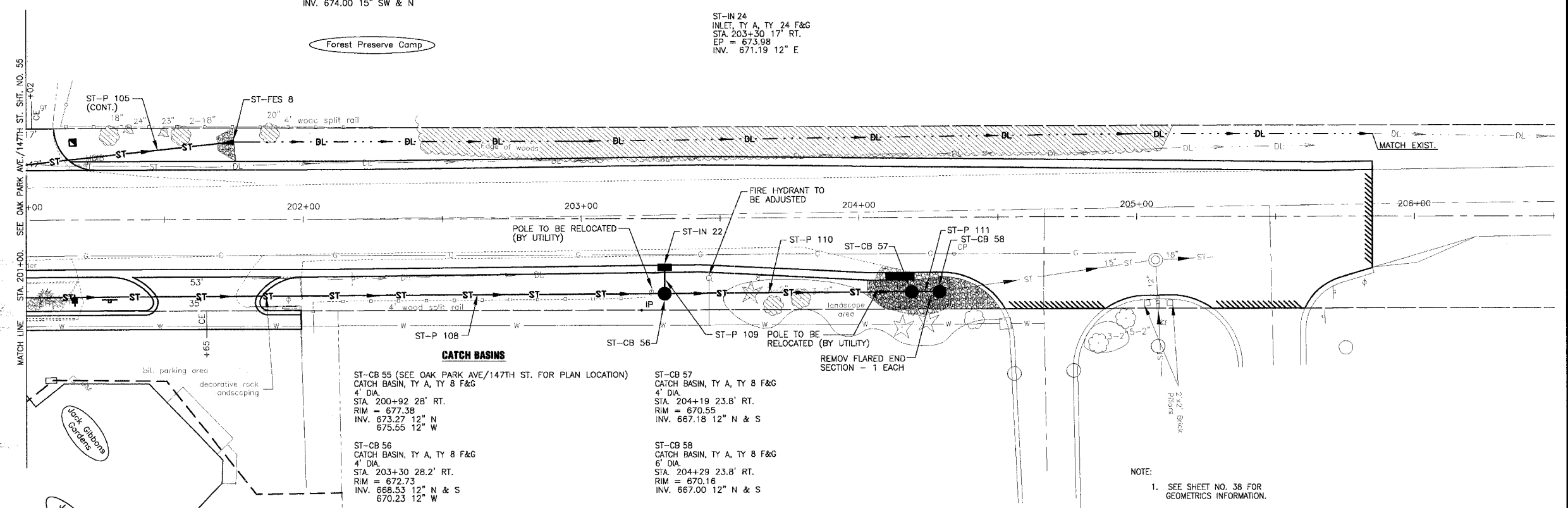
- ST-FES 8
RCP 15"
STA. 201+75 28' LT.
INV. 673.79

MANHOLE

- ST-MH 25 (SEE OAK PARK AVE/147TH ST. FOR PLAN LOCATION)
MANHOLE, TY A, TY 1 FR, CL
4" DIA.
STA. 200+19 11' LT.
RIM = 679.99
INV. 674.00 15" SW & N

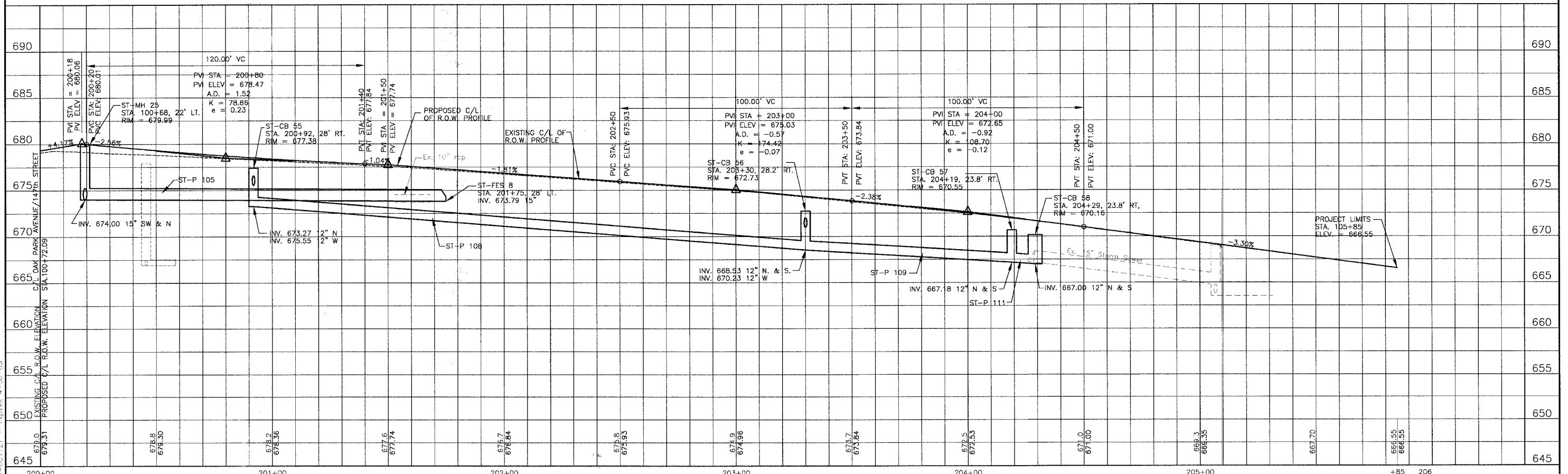
INLETS

- ST-IN 23 (SEE OAK PARK AVE/147TH ST. FOR PLAN LOCATION)
INLET, TY A, TY 24 F&G
STA. 200+92 18.8' RT.
EP = 678.13
INV. 675.63 12" E
- ST-IN 24
INLET, TY A, TY 24 F&G
STA. 203+30 17' RT.
EP = 673.98
INV. 671.19 12" E



NOTE:
1. SEE SHEET NO. 38 FOR GEOMETRICS INFORMATION.

JUSTAMERE ROAD



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CONSULTANTS	DATE	DESCRIPTION
	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

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 Consulting Engineers

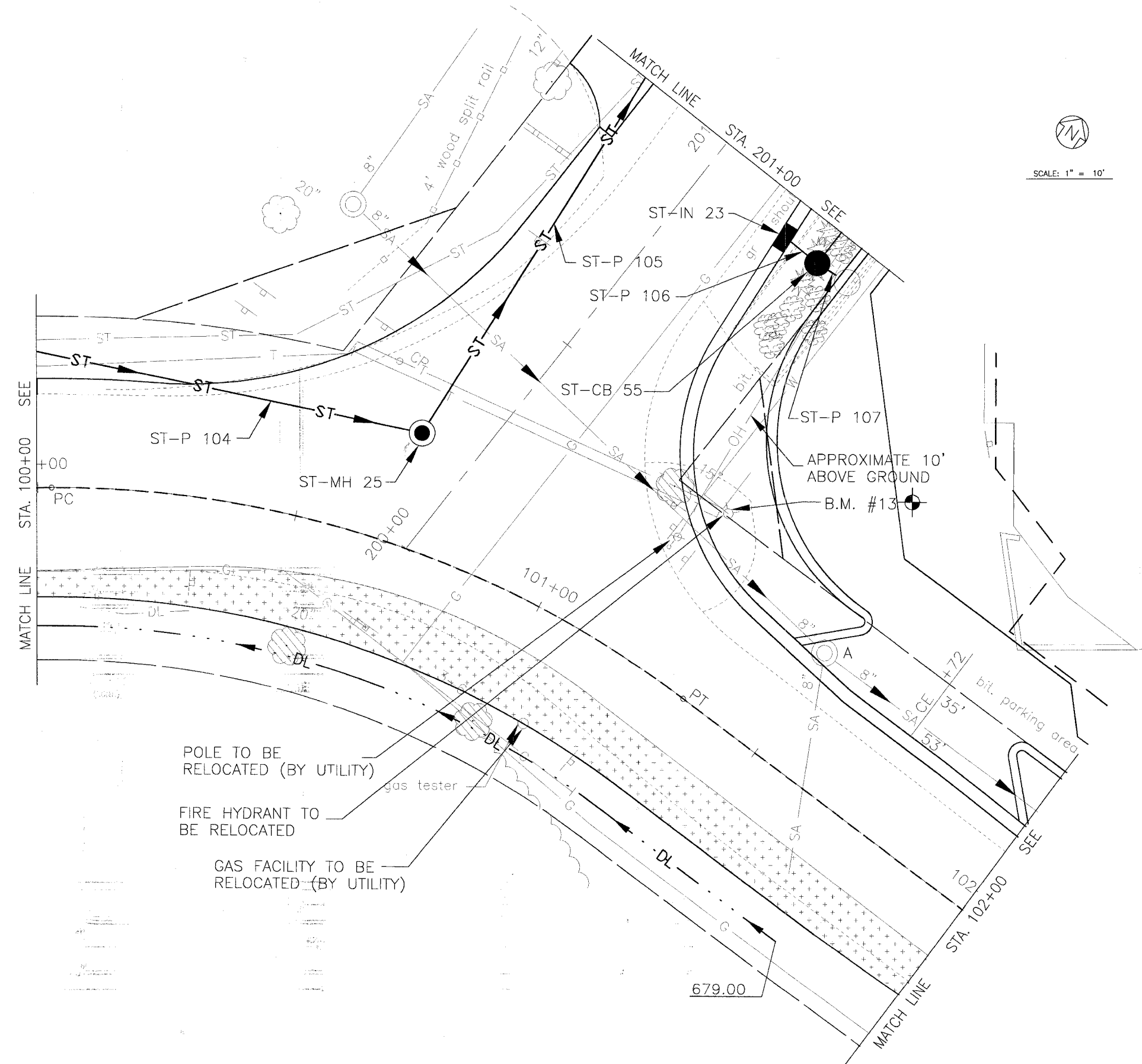
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 Crystal Lake, Illinois 815.459.1860
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 DeKalb, Illinois 815.767.2111
 Graylake, Illinois 815.223.6988
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

JUSTAMERE ROAD
STA. 200+00 TO STA. 205+85
DRAINAGE & UTILITY PLAN

DESIGNED BY NJP	SCALE VERT: 1"=5' HORIZ: 1"=20'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	56 OF 116

F.A.D. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	56A
STA.	TO STA.		FED. ROAD DIST. NO. 1	
			ILLINOIS	
			FED. AID PROJECT CMM-7003 (750)	
CONTRACT NO. B3727				



OAK PARK AVENUE / 147th STREET

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	1	1-20-06 PER IDOT AND COOK COUNTY COMMENTS
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS		

BAXTER & WOODMAN
 Consulting Engineers

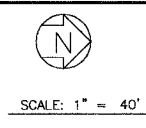
Crystal Lake, Illinois 815.459.1269
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Orayok, Illinois 847.253.5088
 Huntford, Illinois 815.488.1551
 Plainfield, Illinois 815.608.7435

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

147th STREET
STA. 100+00 TO STA. 102+00
DRAINAGE AND UTILITY PLAN

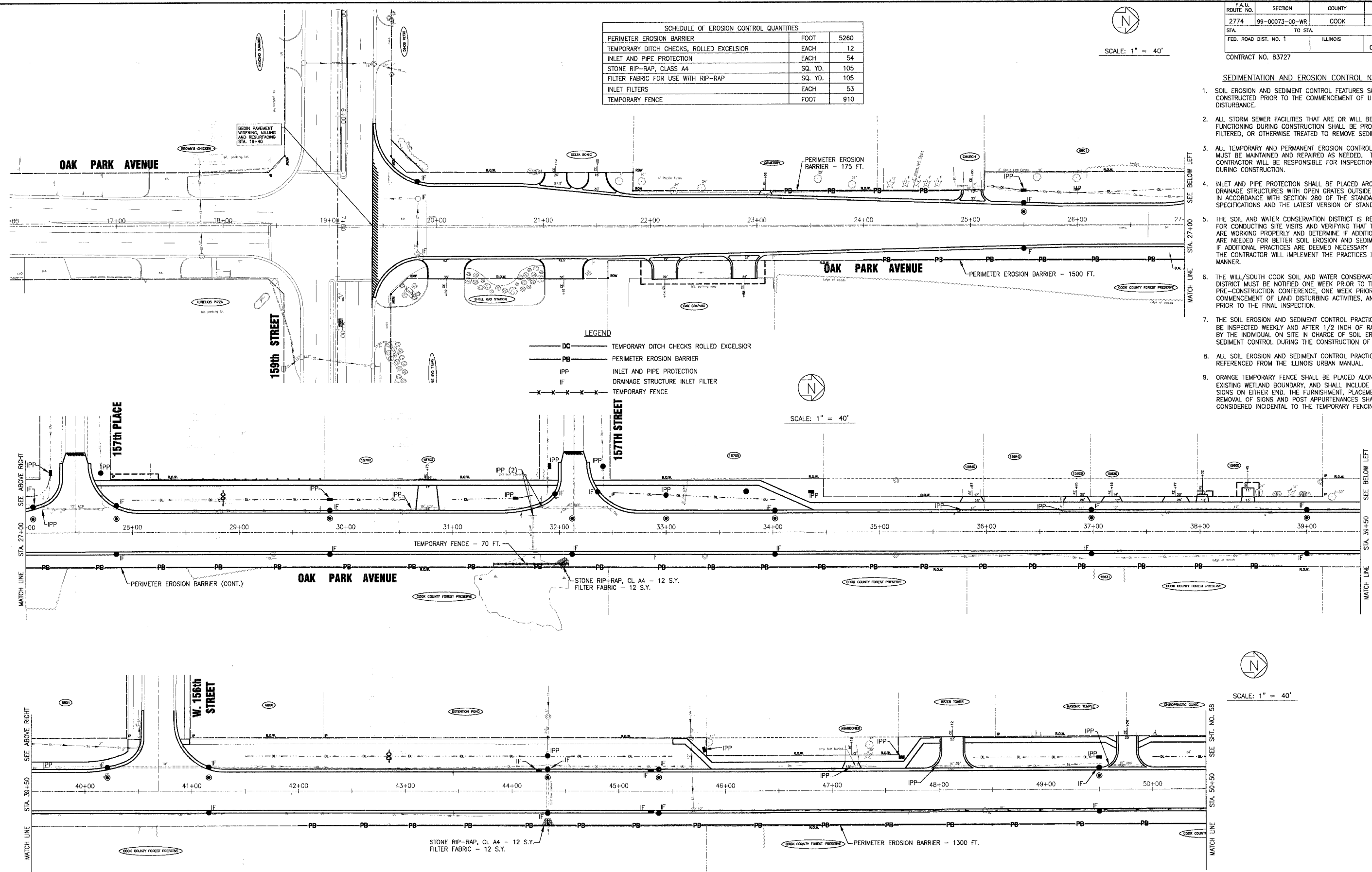
DESIGNED BY	NJP	SCALE VERT: 1"=5'
DRAWN BY	UKB	HORIZ: 1"=10'
CHECKED BY	NJP	PROJECT NO. 020146
DATE	1-20-05	SHEET NO. 56A OF 116

F.A.D. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	57
STA.	TO STA.		FED. ROAD DIST. NO. 1	
	ILLINOIS		FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



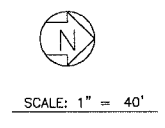
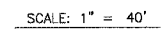
SCHEDULE OF EROSION CONTROL QUANTITIES		
PERIMETER EROSION BARRIER	FOOT	5260
TEMPORARY DITCH CHECKS, ROLLED EXCELSIOR	EACH	12
INLET AND PIPE PROTECTION	EACH	54
STONE RIP-RAP, CLASS A4	SQ. YD.	105
FILTER FABRIC FOR USE WITH RIP-RAP	SQ. YD.	105
INLET FILTERS	EACH	53
TEMPORARY FENCE	FOOT	910

- SEDIMENTATION AND EROSION CONTROL NOTES**
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE.
 - ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED, OR OTHERWISE TREATED TO REMOVE SEDIMENT.
 - ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION.
 - INLET AND PIPE PROTECTION SHALL BE PLACED AROUND ALL DRAINAGE STRUCTURES WITH OPEN GRATES OUTSIDE BACK OF CURB IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND THE LATEST VERSION OF STANDARD 280001.
 - THE SOIL AND WATER CONSERVATION DISTRICT IS RESPONSIBLE FOR CONDUCTING SITE VISITS AND VERIFYING THAT THE PRACTICES ARE WORKING PROPERLY AND DETERMINE IF ADDITIONAL PRACTICES ARE NEEDED FOR BETTER SOIL EROSION AND SEDIMENT CONTROL. IF ADDITIONAL PRACTICES ARE DEEMED NECESSARY BY THE SWCD THE CONTRACTOR WILL IMPLEMENT THE PRACTICES IN A TIMELY MANNER.
 - THE WILL/SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
 - THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER 1/2 INCH OF RAIN OR MORE BY THE INDIVIDUAL ON SITE IN CHARGE OF SOIL EROSION AND SEDIMENT CONTROL DURING THE CONSTRUCTION OF THE PROJECT.
 - ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE REFERENCED FROM THE ILLINOIS URBAN MANUAL.
 - ORANGE TEMPORARY FENCE SHALL BE PLACED ALONG THE EXISTING WETLAND BOUNDARY, AND SHALL INCLUDE "NO INTRUSION" SIGNS ON EITHER END. THE FURNISHMENT, PLACEMENT, & ULTIMATE REMOVAL OF SIGNS AND POST APPURTENANCES SHALL BE CONSIDERED INCIDENTAL TO THE TEMPORARY FENCING ITEM.



LEGEND

— DC —	TEMPORARY DITCH CHECKS ROLLED EXCELSIOR
— PB —	PERIMETER EROSION BARRIER
— IPP —	INLET AND PIPE PROTECTION
— IF —	DRAINAGE STRUCTURE INLET FILTER
— X — X — X — X —	TEMPORARY FENCE



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CONSULTANTS	DATE	DESCRIPTION
BAXTER & WOODMAN	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

Baxter & Woodman
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7934
 Mokena, Illinois 708.478.2090
 DuQuoin, Illinois 618.787.3111
 Graylake, Illinois 815.233.5089
 Rockford, Illinois 815.489.4551
 Moline, Illinois 815.609.7425

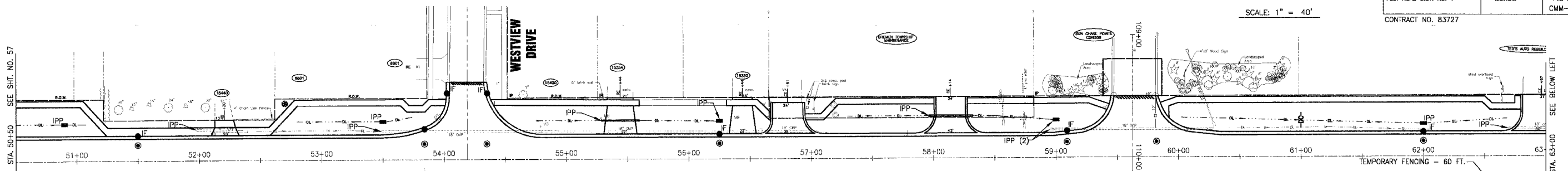
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

TEMPORARY EROSION CONTROL PLAN
OAK PARK AVENUE
STA. 19+40 TO STA 50+50

DESIGNED BY	SCALE	HORIZ: 1"=40'
DRAWN BY	PROJECT NO.	020146
CHECKED BY	SHEET NO.	57 OF 116
DATE		1-20-05

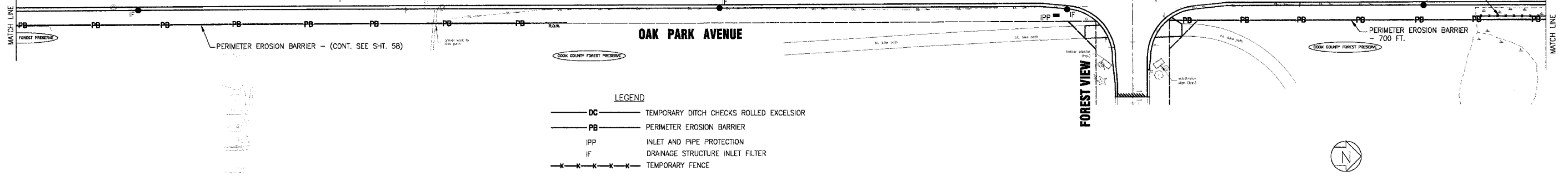
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	58
STA. 2774	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT	CMM-7003 (750)	
CONTRACT NO. 83727				

SCALE: 1" = 40'

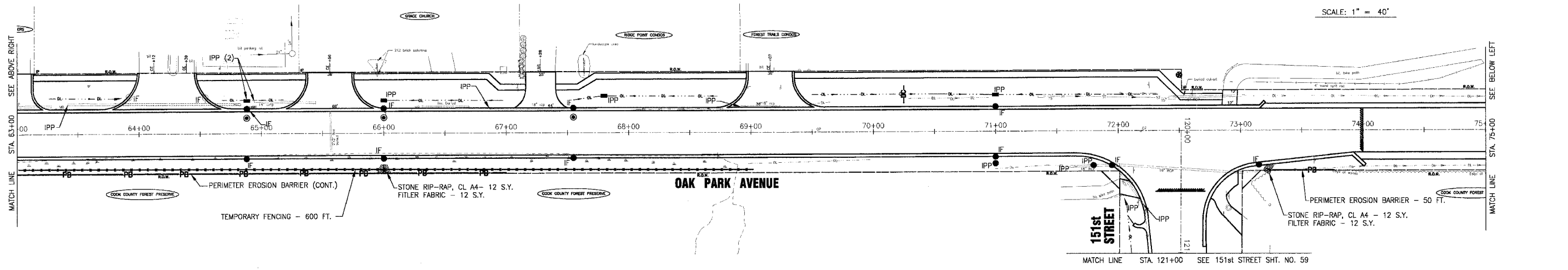


OAK PARK AVENUE

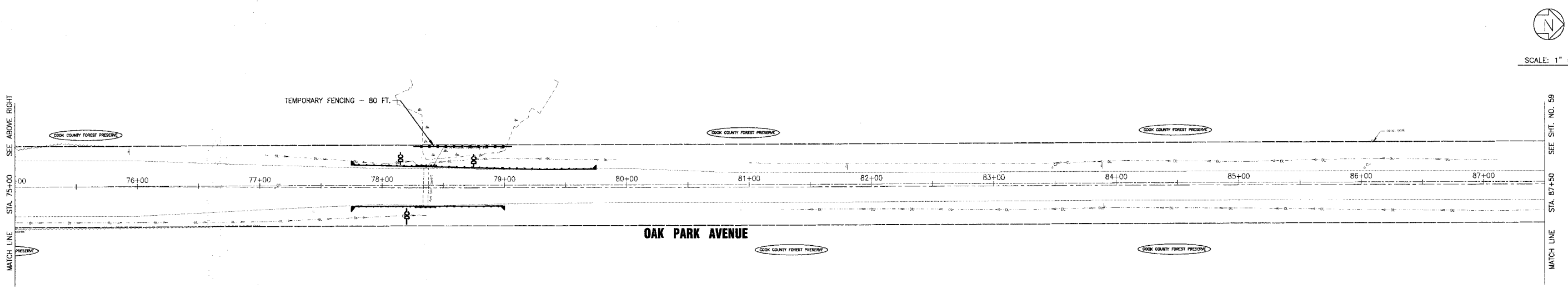
- LEGEND**
- DC — TEMPORARY DITCH CHECKS ROLLED EXCELSIOR
 - PB — PERIMETER EROSION BARRIER
 - IPP — INLET AND PIPE PROTECTION
 - IF — DRAINAGE STRUCTURE INLET FILTER
 - X — X — X — X — X — TEMPORARY FENCE



OAK PARK AVENUE



OAK PARK AVENUE



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

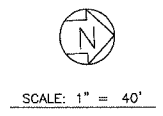
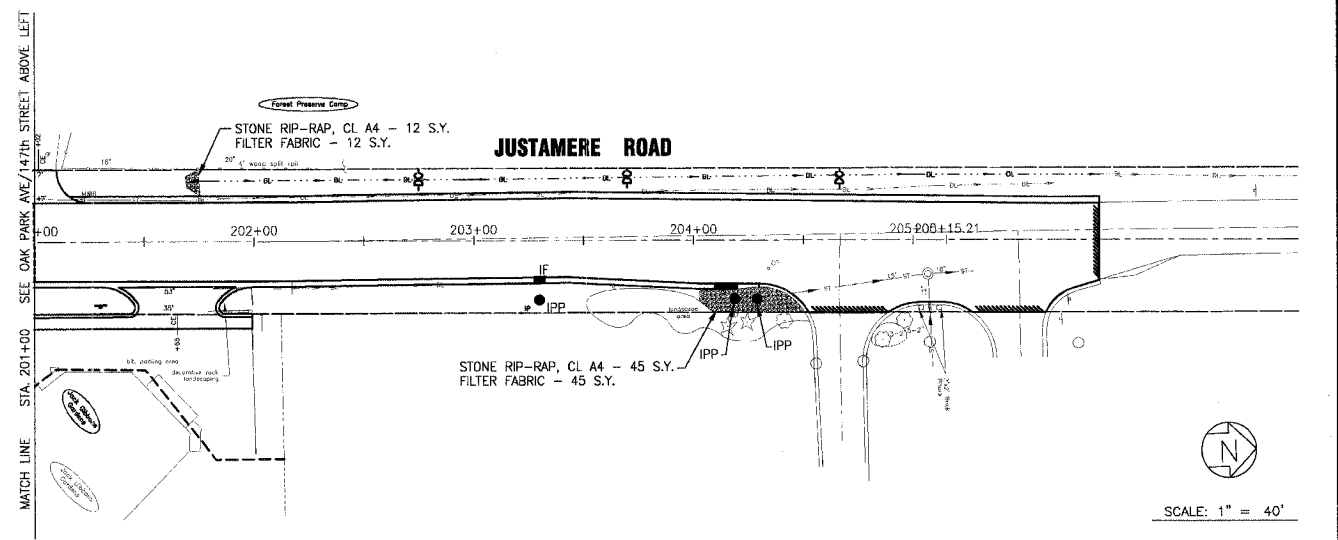
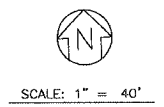
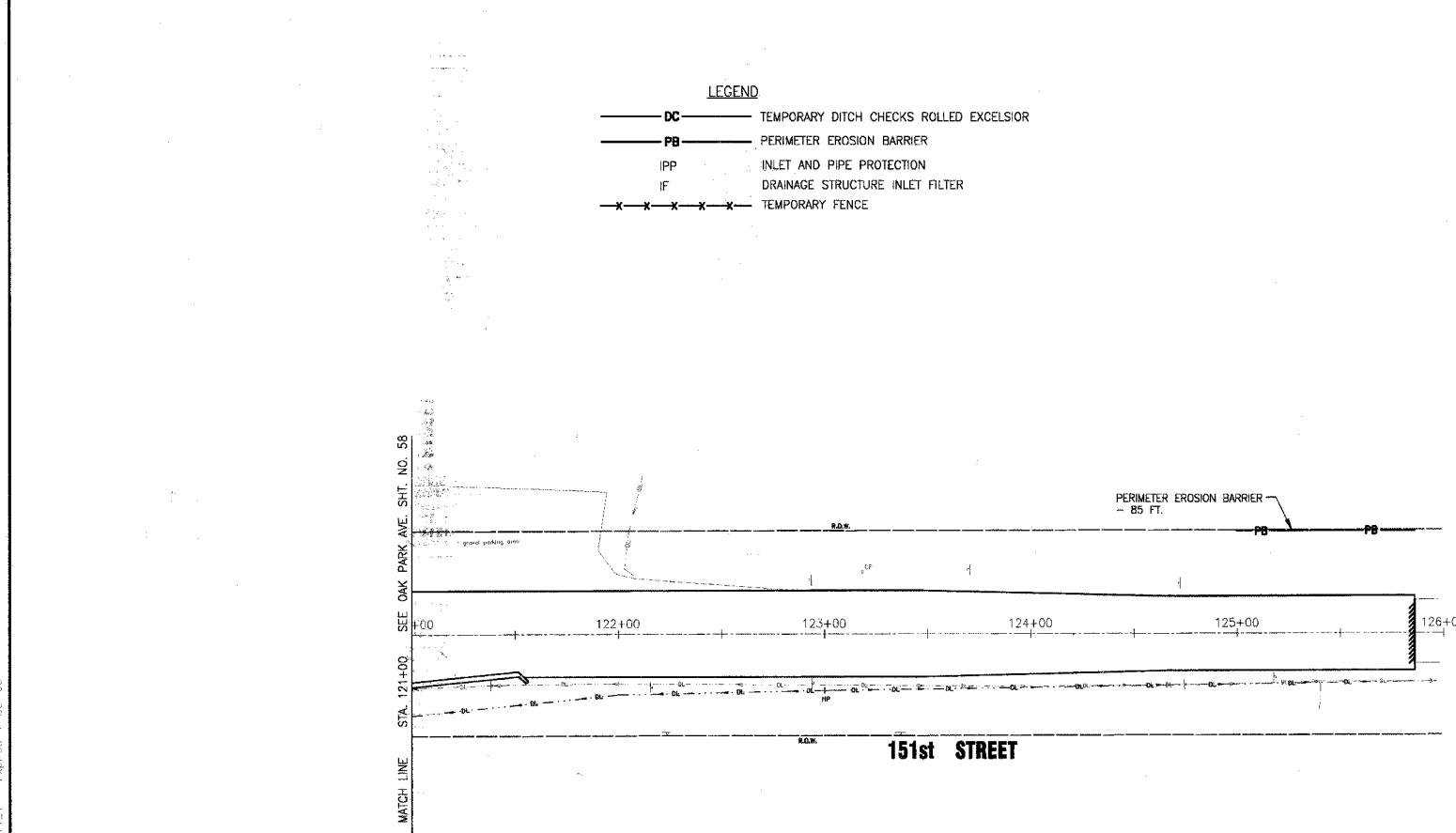
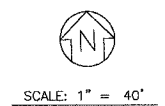
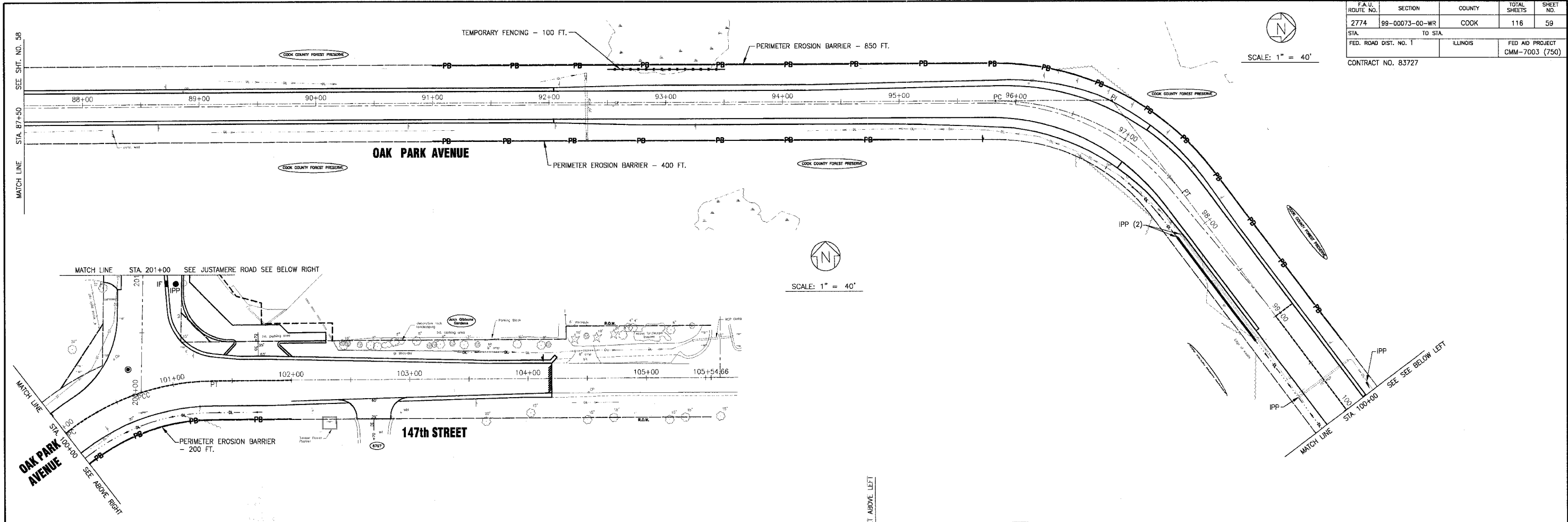
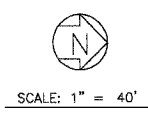
Baxter & Woodman
 Crystal Lake, Illinois 815.459.1360
 Burlington, Wisconsin 262.763.7884
 Milwaukee, Illinois 708.474.5050
 DeKalb, Illinois 815.787.3111
 Grayslake, Illinois 847.323.5088
 Rockford, Illinois 815.469.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

TEMPORARY EROSION CONTROL PLAN
OAK PARK AVENUE
STA. 50+50 TO STA. 87+50

DESIGNED BY NJP	SCALE HORIZ: 1"=40'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO. 58 OF 116
DATE 1-20-05	

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	59
SIA	TO SIA			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		
		CMM-7003 (750)		



- LEGEND**
- DC ——— TEMPORARY DITCH CHECKS ROLLED EXCELSIOR
 - PB ——— PERIMETER EROSION BARRIER
 - IPP ——— INLET AND PIPE PROTECTION
 - IF ——— DRAINAGE STRUCTURE INLET FILTER
 - X-X-X-X-X-X ——— TEMPORARY FENCE

CONSULTANTS	DATE	DESCRIPTION
	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

Baxter & Woodman
 Crystal Lake, Illinois 815.458.1860
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 847.283.5098
 Rockford, Illinois 815.489.1551
 Huntley, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

TEMPORARY EROSION CONTROL PLAN
OAK PARK AVENUE -151ST STREET
AND JUSTAMERE AVENUE

DESIGNED BY	SCALE
NJP	HORIZ: 1"=40'
DRAWN BY	PROJECT NO.
UKB	Q20146
CHECKED BY	SHEET NO.
NJP	59 OF 116
DATE	
1-20-05	

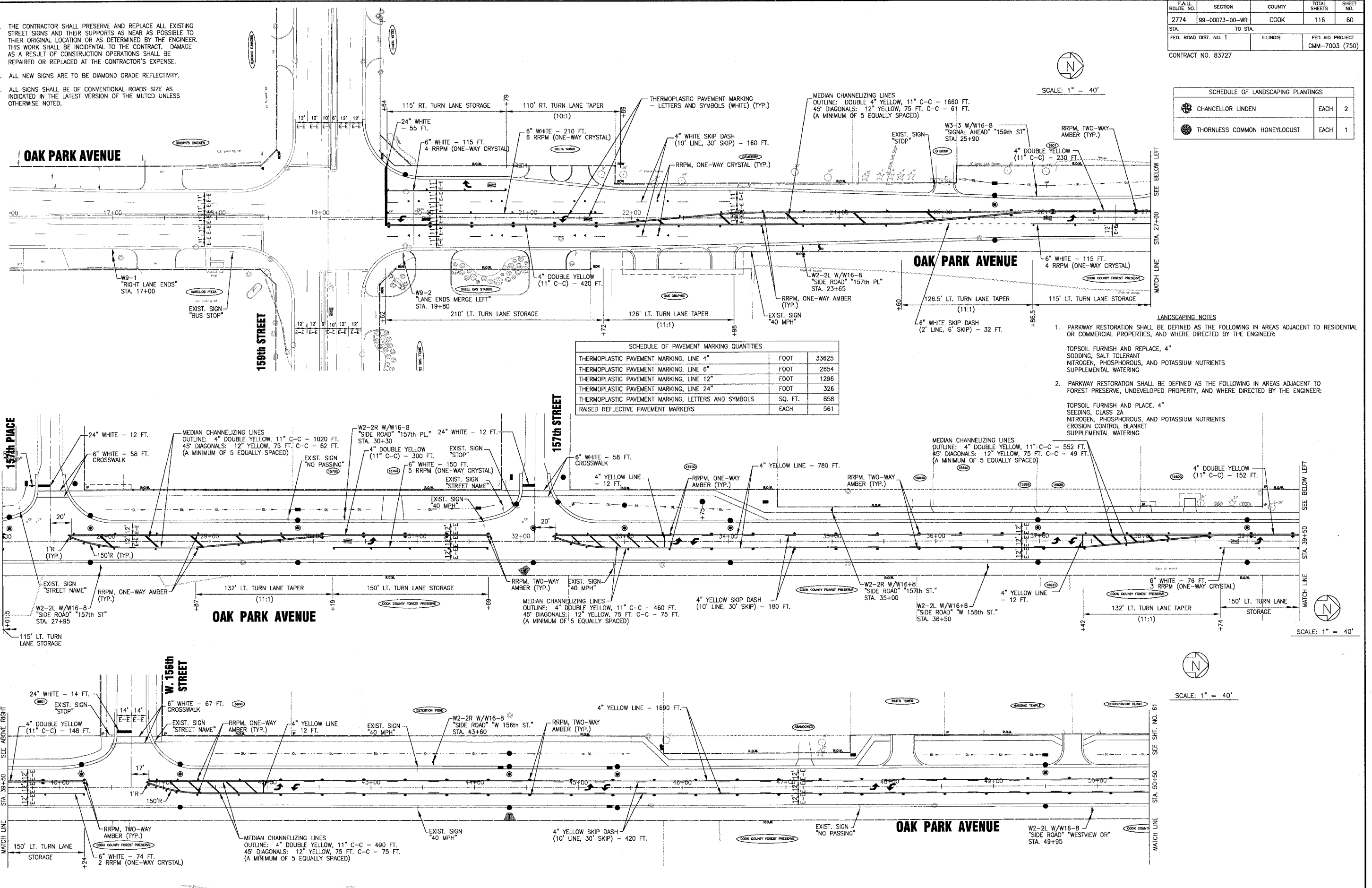
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- NOTES:
1. THE CONTRACTOR SHALL PRESERVE AND REPLACE ALL EXISTING STREET SIGNS AND THEIR SUPPORTS AS NEAR AS POSSIBLE TO THEIR ORIGINAL LOCATION OR AS DETERMINED BY THE ENGINEER. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT. DAMAGE AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
 2. ALL NEW SIGNS ARE TO BE DIAMOND GRADE REFLECTIVITY.
 3. ALL SIGNS SHALL BE OF CONVENTIONAL ROADS SIZE AS INDICATED IN THE LATEST VERSION OF THE MUTCD UNLESS OTHERWISE NOTED.

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	60
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		
		CMM-7003 (750)		

CONTRACT NO. 83727

SCHEDULE OF LANDSCAPING PLANTINGS		
CHANCELLOR LINDEN	EACH	2
THORNLESS COMMON HONEYLOCUST	EACH	1



SCHEDULE OF PAVEMENT MARKING QUANTITIES		
THERMOPLASTIC PAVEMENT MARKING, LINE 4"	FOOT	33625
THERMOPLASTIC PAVEMENT MARKING, LINE 6"	FOOT	2854
THERMOPLASTIC PAVEMENT MARKING, LINE 12"	FOOT	1296
THERMOPLASTIC PAVEMENT MARKING, LINE 24"	FOOT	326
THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ. FT.	858
RAISED REFLECTIVE PAVEMENT MARKERS	EACH	561

SCALE: 1" = 40'

- LANDSCAPING NOTES
1. PARKWAY RESTORATION SHALL BE DEFINED AS THE FOLLOWING IN AREAS ADJACENT TO RESIDENTIAL OR COMMERCIAL PROPERTIES, AND WHERE DIRECTED BY THE ENGINEER:
TOPSOIL FURNISH AND REPLACE, 4" SODDING, SALT TOLERANT NITROGEN, PHOSPHOROUS, AND POTASSIUM NUTRIENTS SUPPLEMENTAL WATERING
 2. PARKWAY RESTORATION SHALL BE DEFINED AS THE FOLLOWING IN AREAS ADJACENT TO FOREST PRESERVE, UNDEVELOPED PROPERTY, AND WHERE DIRECTED BY THE ENGINEER:
TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A NITROGEN, PHOSPHOROUS, AND POTASSIUM NUTRIENTS EROSION CONTROL BLANKET SUPPLEMENTAL WATERING

SCALE: 1" = 40'

Land Projects 2001\WORK\BAM-DWGS\OAKPARK\2014-06-10\SS\2014-06-10-STR.P.dwg
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 Printing: 11/25/14 10:55:14 AM
 Scale: 1" = 40'

CONSULTANTS	REV	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

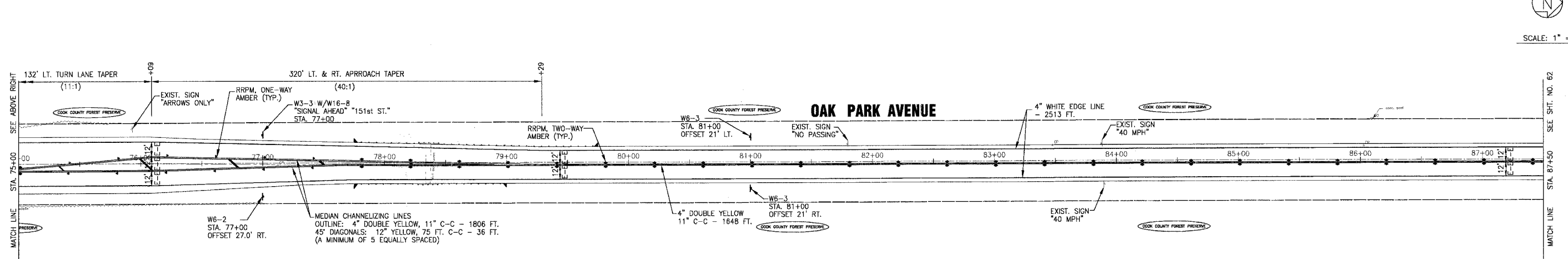
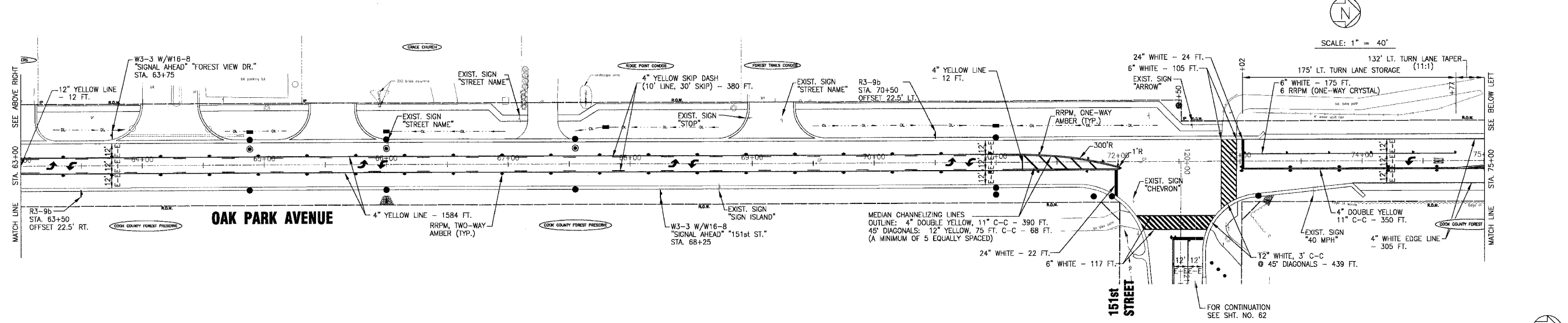
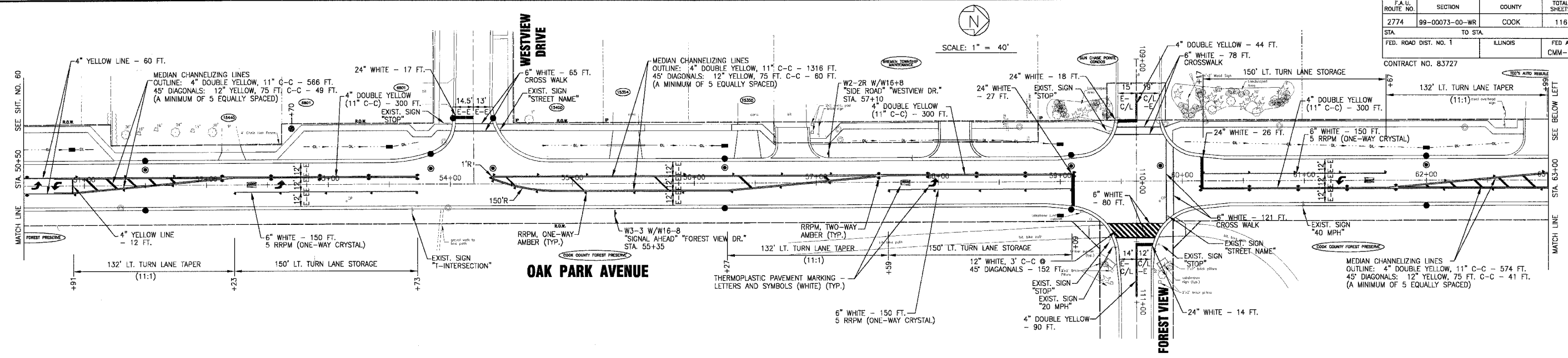
BAKTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.469.1260
 Burlington, Wisconsin 262.763.7851
 Mokena, Illinois 708.478.2030
 DeKalb, Illinois 815.797.9111
 Crystal Lake, Illinois 847.233.5088
 Rockford, Illinois 815.469.1651
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

PAVEMENT MARKING, SIGNAGE AND
LANDSCAPING PLAN ON OAK PARK AVENUE
 STA. 16+00 TO STA. 50+50

DESIGNED BY	NJP	SCALE	HORIZ: 1" = 40'
DRAWN BY	UKB	PROJECT NO.	020146
CHECKED BY	NJP	SHEET NO.	60 OF 116
DATE	1-20-05		

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	61
STA. TO STA.			FED. ROAD DIST. NO. 1	ILLINOIS
			FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



2: Land Projects 2004\KOKEM-DWG\OAK\0201-46-SIRP.dwg
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 3/27/05 11:26:05 AM by: 233 ubd
 License No. 184-001121 - Expires 4-10-05

CONSULTANT	REV.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER WOODMAN
 Consulting Engineers

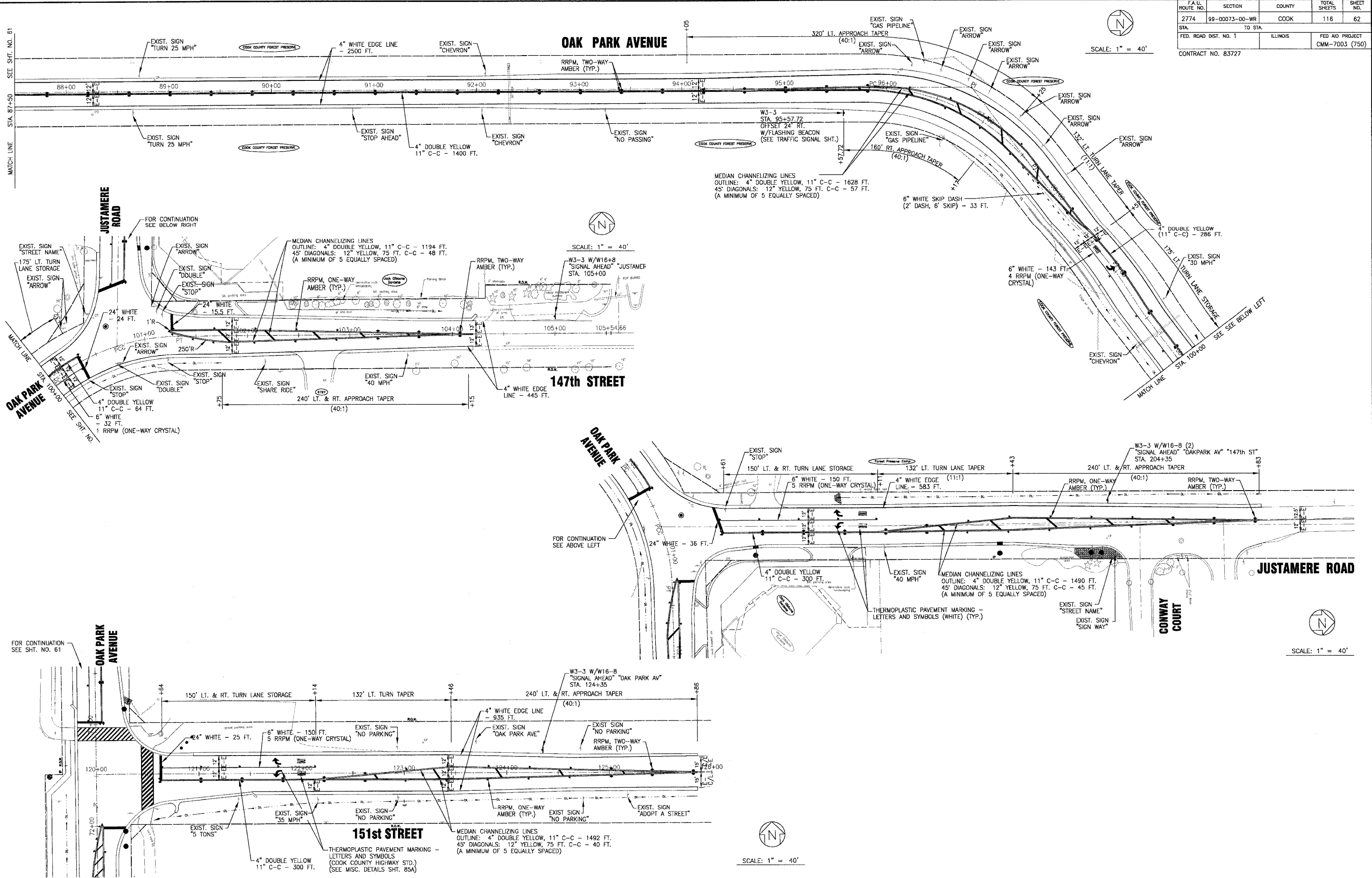
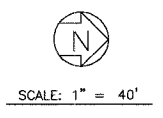
Baxter & Woodman
 Crystal Lake, Illinois 815.469.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 Deerfield, Illinois 815.797.3111
 Graylake, Illinois 847.233.5068
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7435

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

PAVEMENT MARKING, SIGNAGE AND LANDSCAPING PLAN ON OAK PARK AVENUE
STA. 50+50 TO STA. 87+50

DESIGNED BY NJP	SCALE HORIZ: 1"=40'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO. 61 OF 116
DATE 1-20-05	

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	62
STA.	TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS
			FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



2. Local Projects 2004\WORK\ENR\DWG\OAK\PT\020116\DWG\20146-S*TRIP.dwg
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 Copyright: Illinois State Survey & Woodman, Inc.
 License No. 1186-021121 Expires: 4-30-05

CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS		

--

BAKTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.459.1200
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 815.459.1500
 Rockford, Illinois 815.498.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

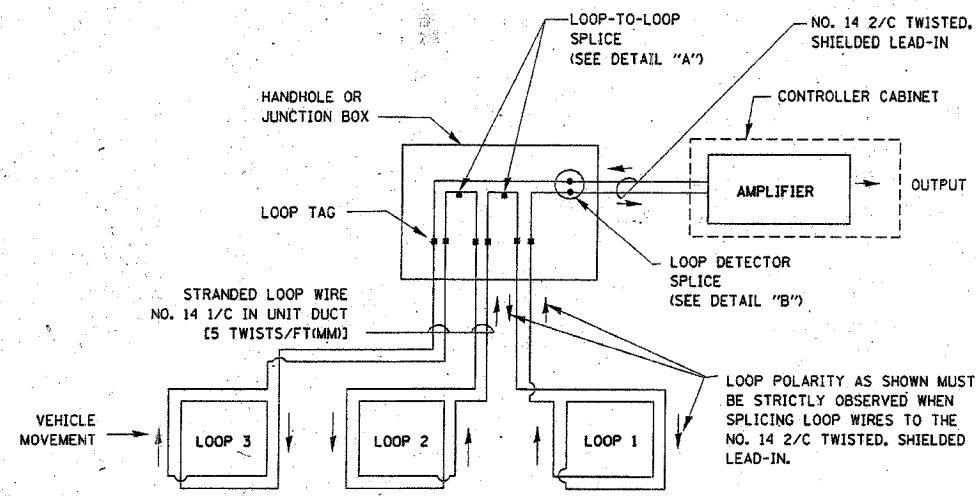
PAVEMENT MARKING, SIGNAGE AND LANDSCAPING PLAN ON OAK PARK AVENUE, 151st STREET AND JUSTAMERE ROAD

DESIGNED BY	NJP	SCALE	HORIZ: 1"=40'
DRAWN BY	UKB	PROJECT NO.	020146
CHECKED BY	NJP	SHEET NO.	62 OF 116
DATE	1-20-05		

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774 99-00073-00-WR		COOK	116	64
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 83727		CMM-7003 (750)		

LOOP DETECTOR NOTES

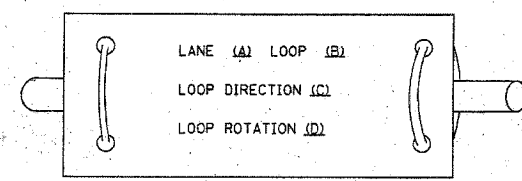
- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



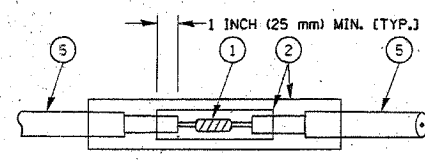
DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

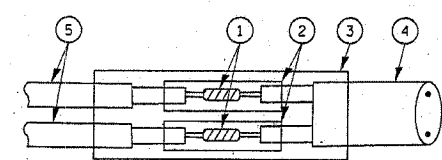
LOOP LEAD-IN CABLE TAG



- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



**DETAIL "A"
LOOP-TO-LOOP SPLICE**



**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE

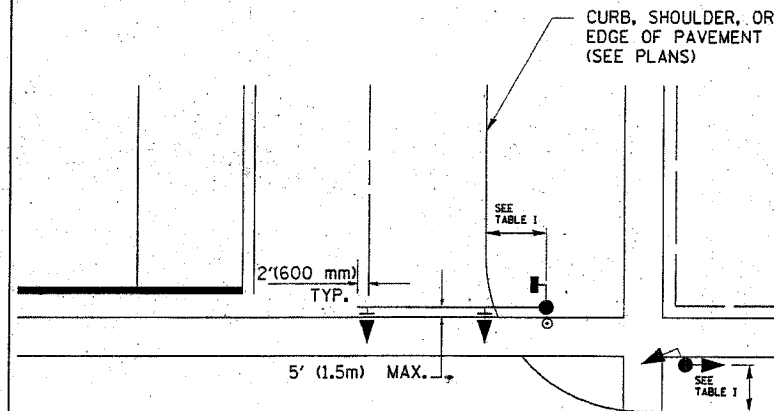
ILLINOIS DEPARTMENT OF TRANSPORTATION
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS**
SCALE: VERT. NONE
HORIZ. DATE 1-01-02
DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 1 OF 4

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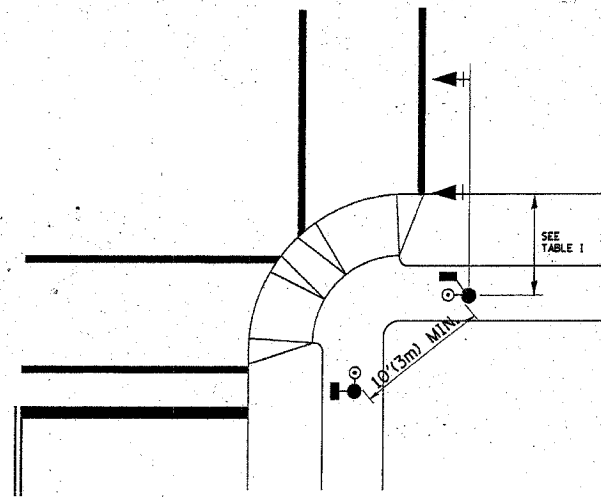
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-0073-00-WR	COOK	116	65
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83727	CMM-7003 (750)			

TRAFFIC SIGNAL MAST, ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.
 AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.
 PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:
 A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
 C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
 D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

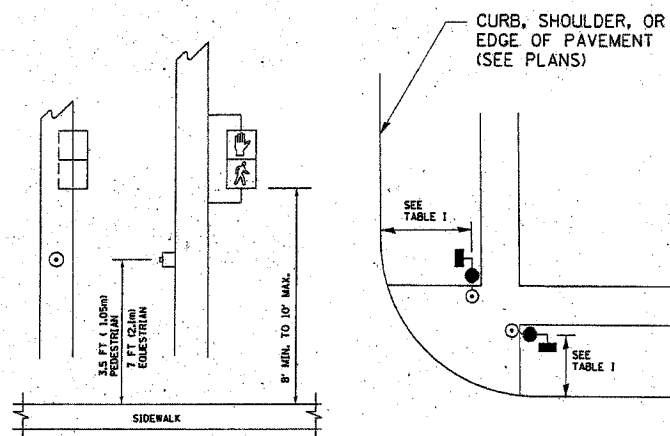


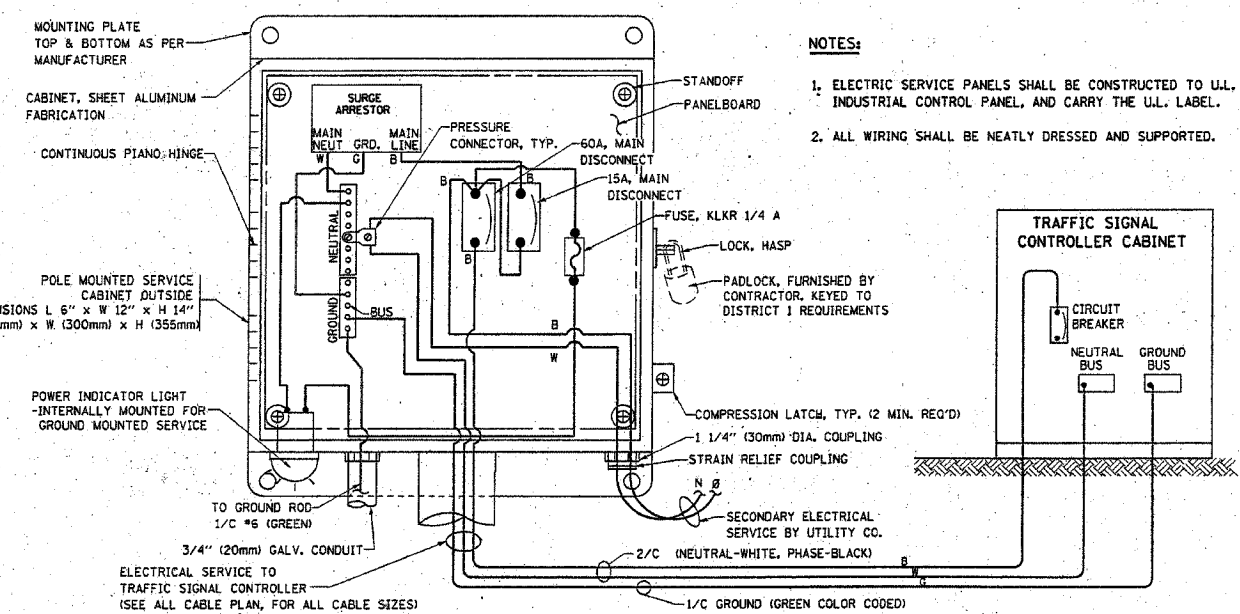
TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

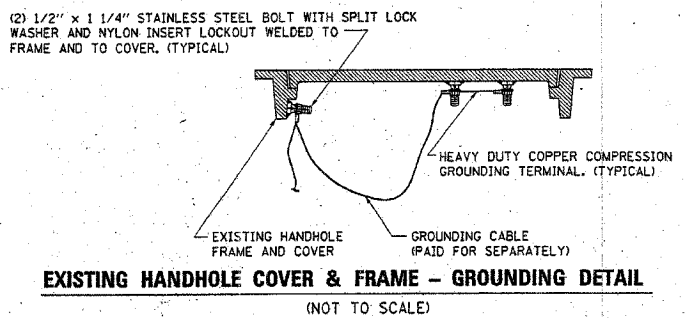
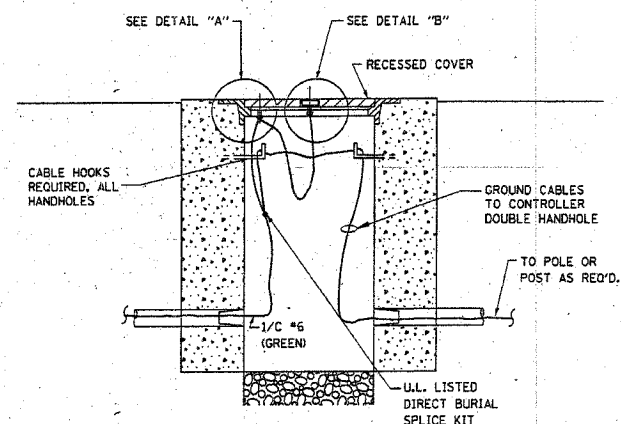
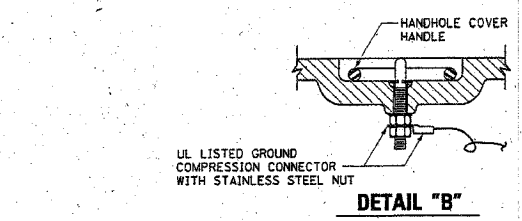
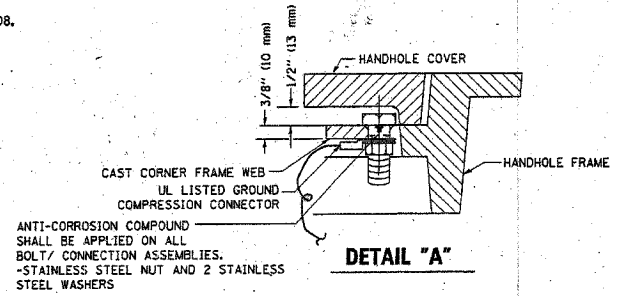
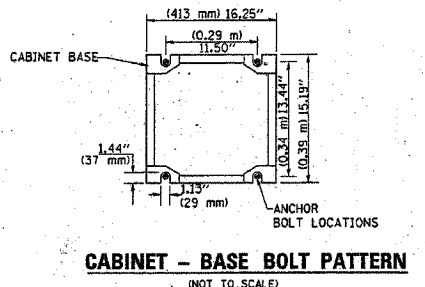
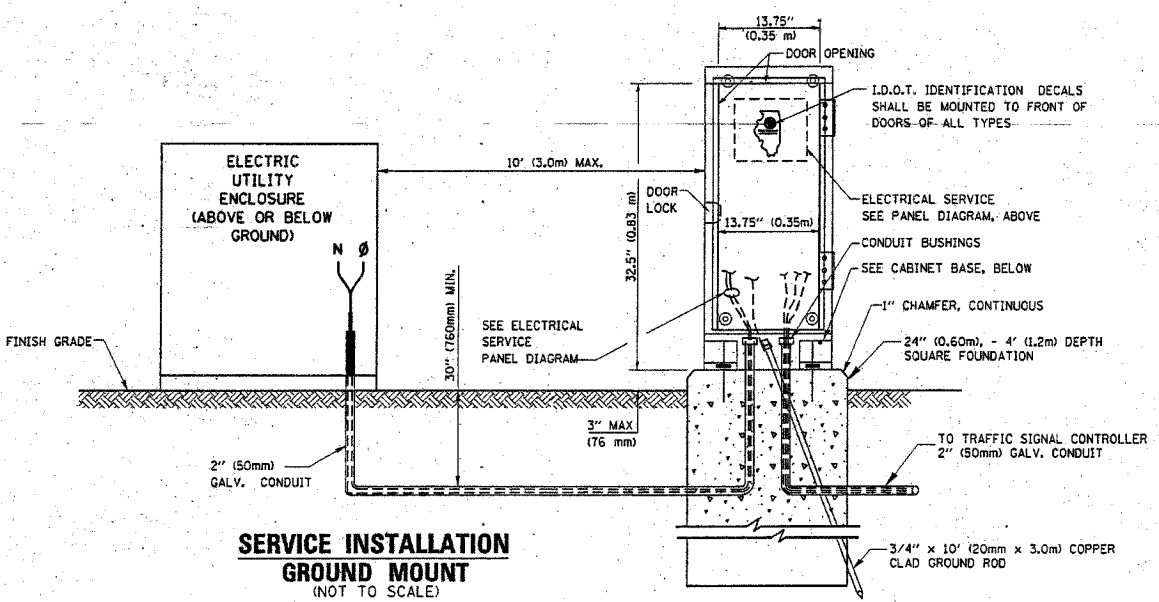
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS
SCALE:	VERT. NONE	DRAWN BY: RWP
DATE 1-01-02	HORIZ. NONE	DESIGNED BY: DAD
		CHECKED BY: DAZ
		SHEET 2 OF 4

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 Plotted: 4-29-05 @ 5:51pm By: 231ukb
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
2774	99-00073-00-WR	COOK	116 66
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		
	CONTRACT NO. 83727	CMM-7003 (750)	



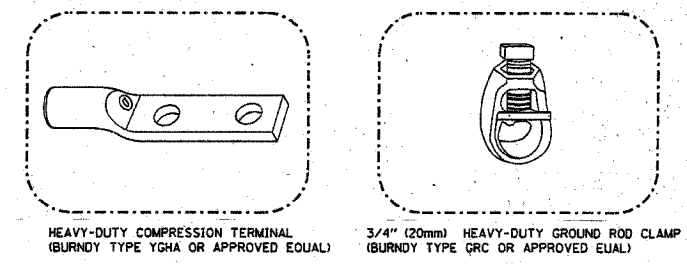
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



NOTES:

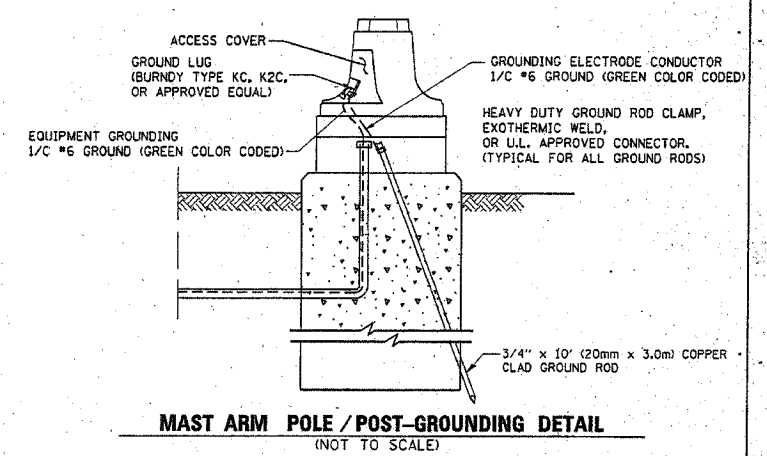
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



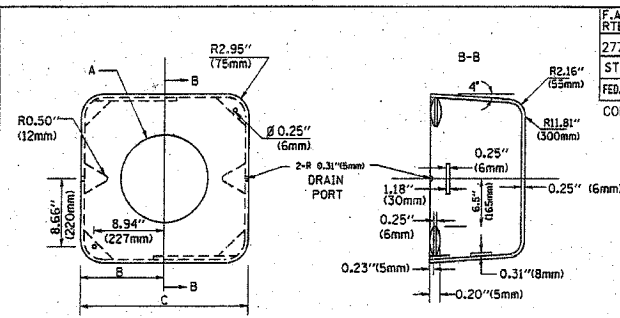
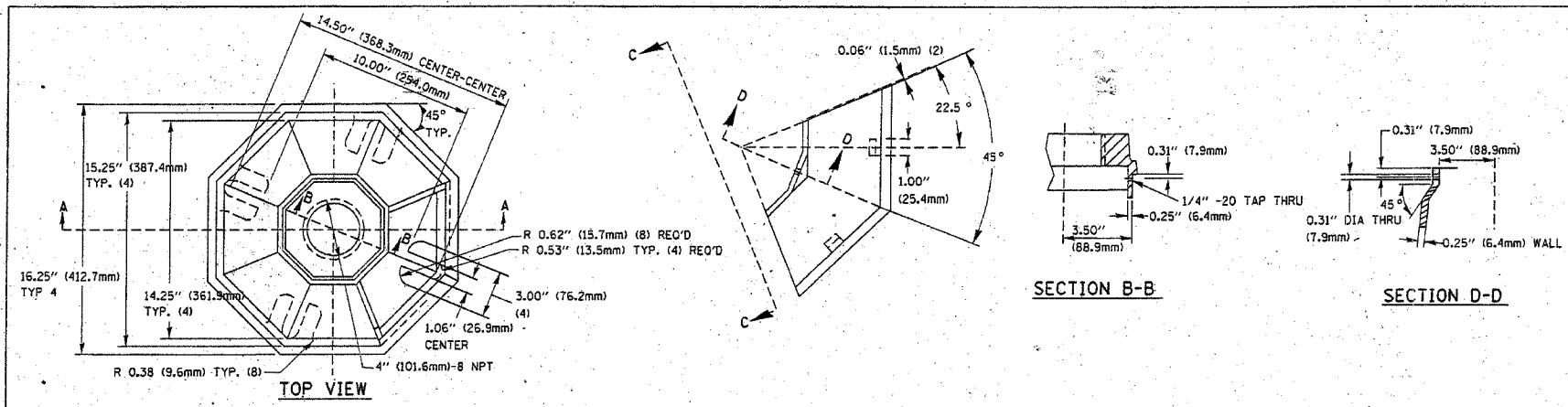
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

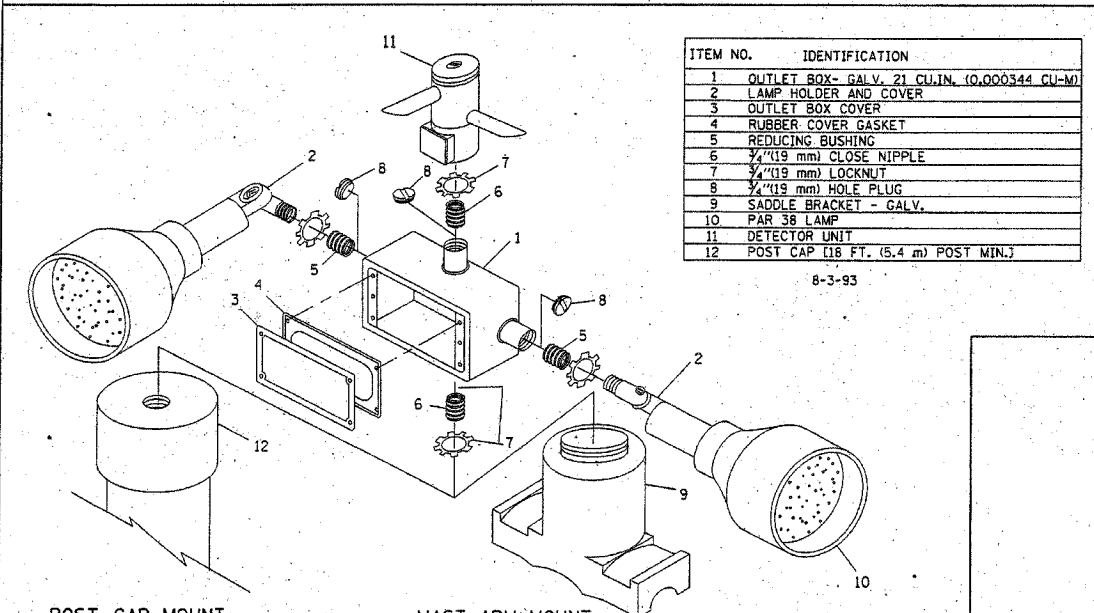
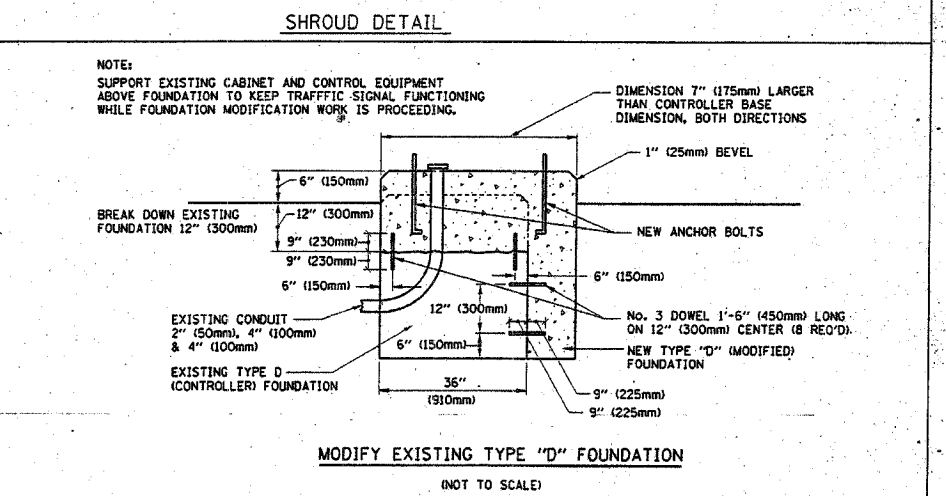
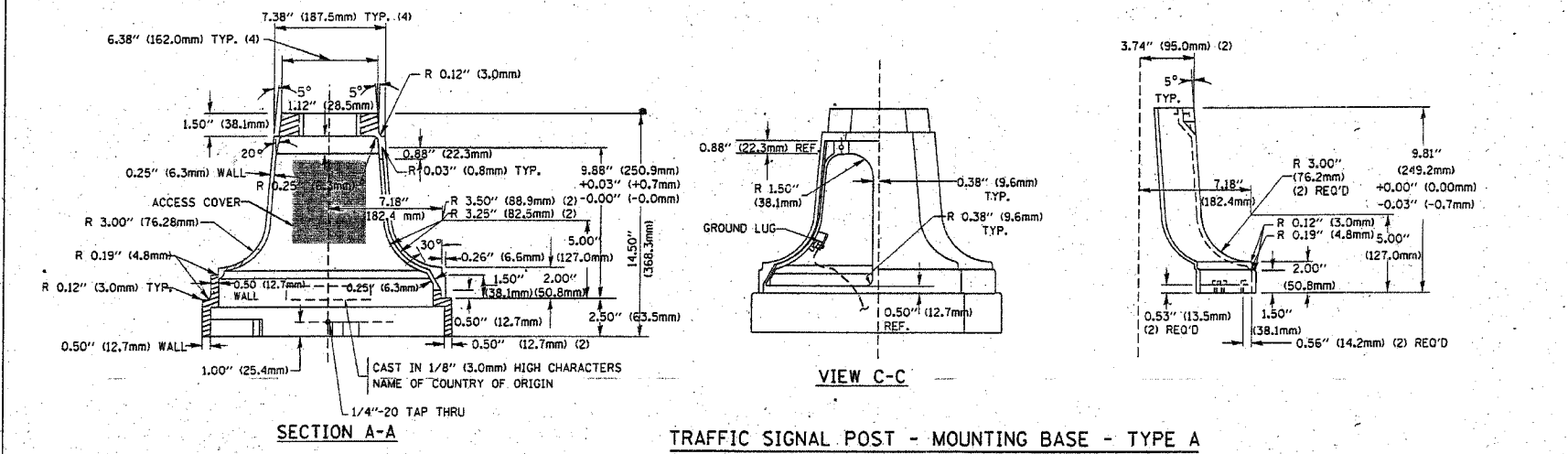
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 HORIZ. 1"=10'
 DATE 1-01-02

DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: JAZ
 SHEET 3 OF 4

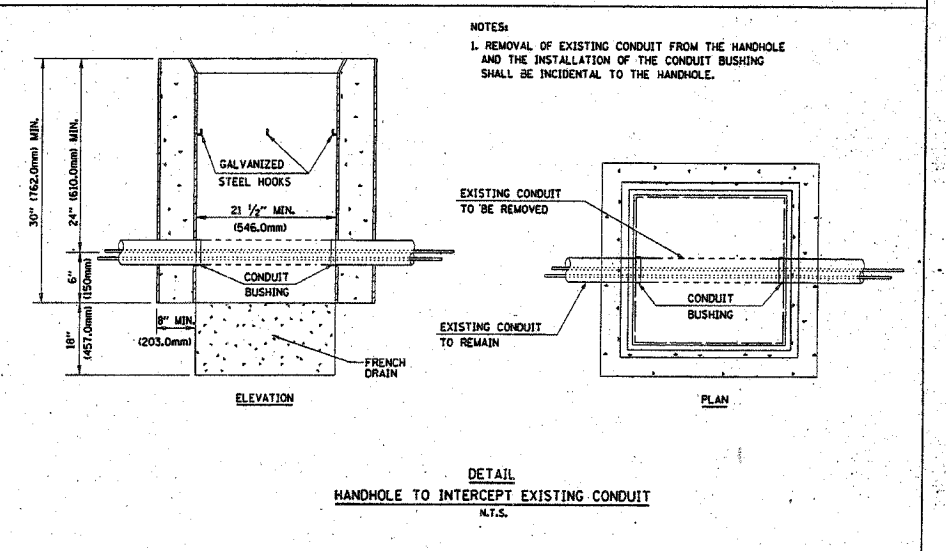
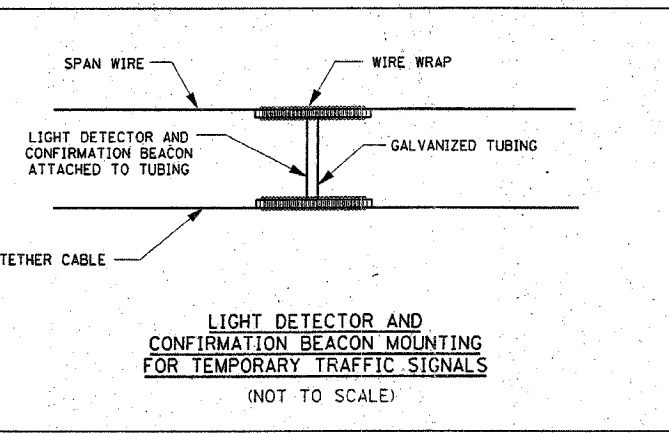
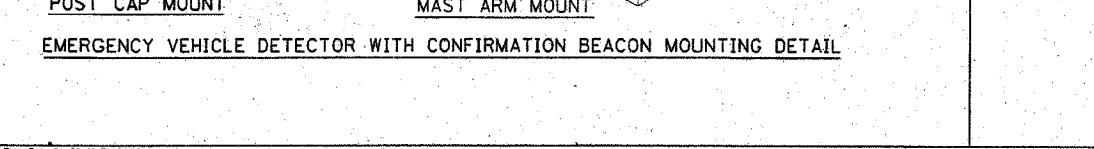
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	67
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 83727		CMM-7003 (750)		



TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125\" (257mm)	9.5\" (241mm)	19\" (483mm)	12\" (300mm)	24kg
II	Ø 11.125\" (283mm)	10.75\" (273mm)	21.5\" (546mm)	12\" (300mm)	26kg



- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 - ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
 - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



REVISIONS		DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME			

**DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS**

SCALE: VERT. NONE
HORIZ. NONE
DATE: 1-01-02

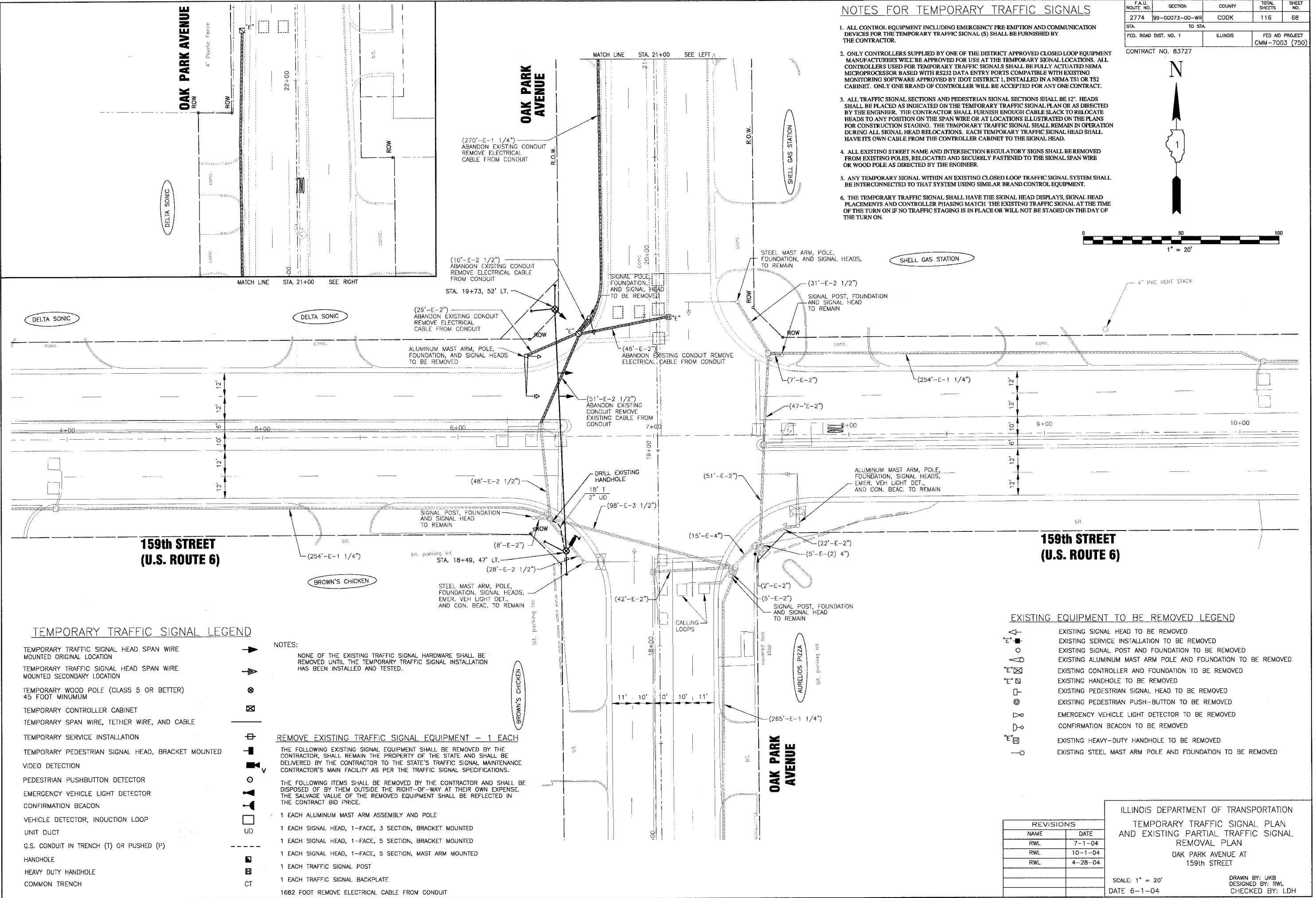
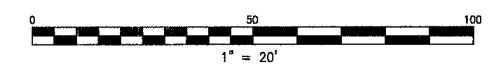
DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 4 OF 4

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 State of Illinois - Professional Design Firm
 License No. 184-001121 - Expires 4-30-05

NOTES FOR TEMPORARY TRAFFIC SIGNALS

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	68
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT THE TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL AT THE TIME OF THE TURN ON IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.



TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (GLASS 5 OR BETTER) 45 FOOT MINIMUM
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- VIDEO DETECTION
- PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- HEAVY DUTY HANDHOLE
- COMMON TRENCH

NOTES:

- NONE OF THE EXISTING TRAFFIC SIGNAL HARDWARE SHALL BE REMOVED UNTIL THE TEMPORARY TRAFFIC SIGNAL INSTALLATION HAS BEEN INSTALLED AND TESTED.
- REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - 1 EACH**
- THE FOLLOWING EXISTING SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- 1 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE
 - 1 EACH SIGNAL HEAD, 1-FACE, 3 SECTION, BRACKET MOUNTED
 - 1 EACH SIGNAL HEAD, 1-FACE, 5 SECTION, BRACKET MOUNTED
 - 1 EACH SIGNAL HEAD, 1-FACE, 5 SECTION, MAST ARM MOUNTED
 - 1 EACH TRAFFIC SIGNAL POST
 - 1 EACH TRAFFIC SIGNAL BACKPLATE
 - 1682 FOOT REMOVE ELECTRICAL CABLE FROM CONDUIT

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- EXISTING SIGNAL HEAD TO BE REMOVED
- EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- EXISTING HANDHOLE TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- EXISTING PEDESTRIAN PUSH-BUTTON TO BE REMOVED
- EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- CONFIRMATION BEACON TO BE REMOVED
- EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

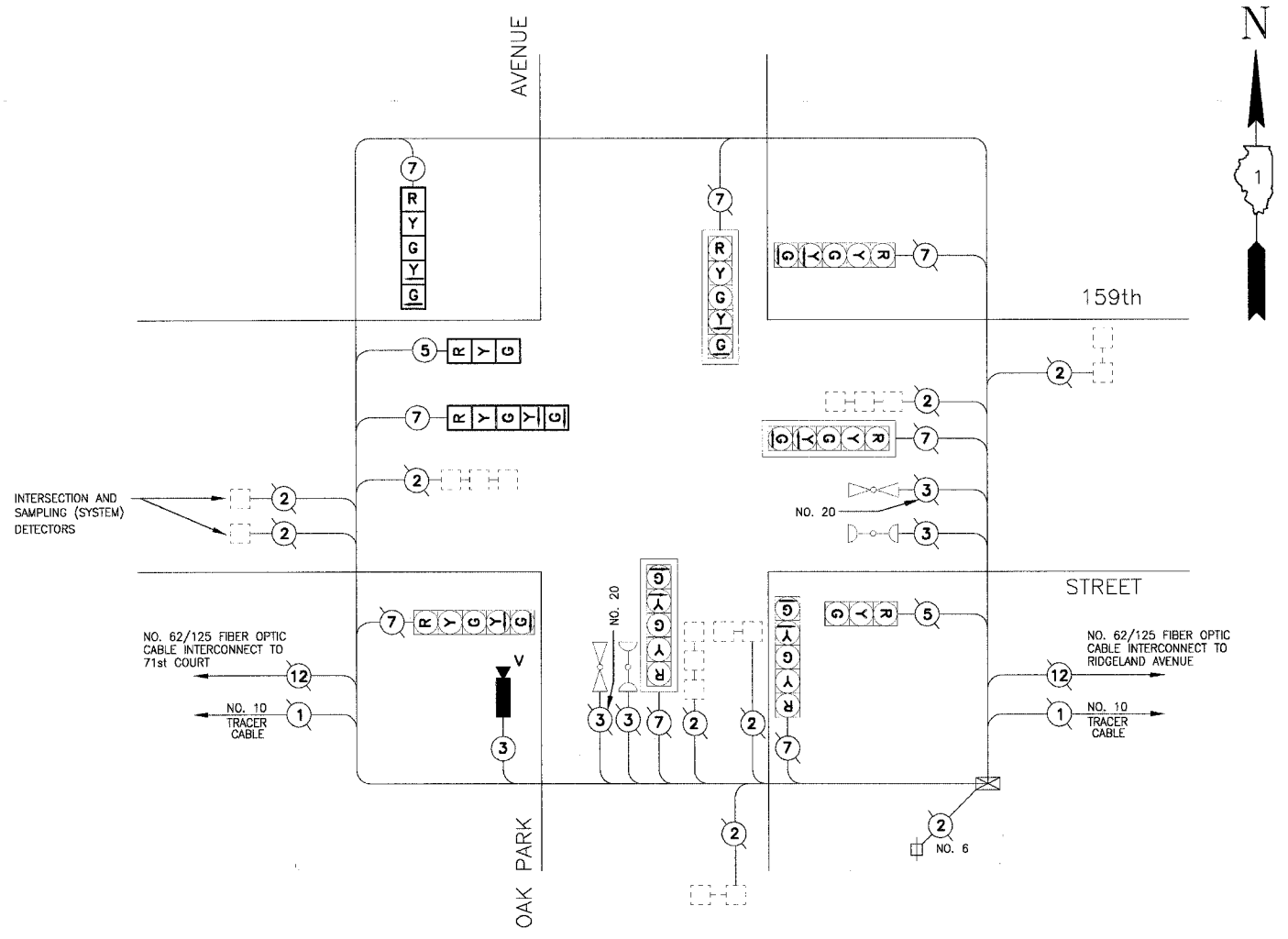
REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
RWL	4-28-04

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY TRAFFIC SIGNAL PLAN
 AND EXISTING PARTIAL TRAFFIC SIGNAL
 REMOVAL PLAN
 OAK PARK AVENUE AT
 159th STREET

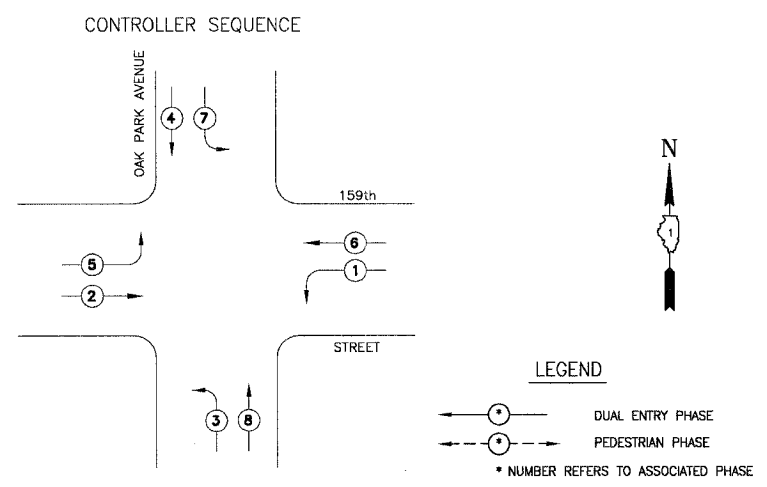
SCALE: 1" = 20'
 DATE 6-1-04

DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: LDH

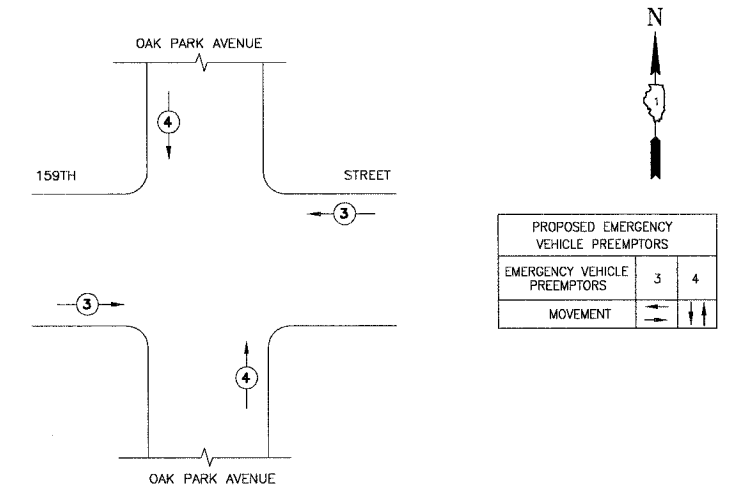
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TEMPORARY CABLE DIAGRAM



TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

TEMPORARY CABLE DIAGRAM LEGEND

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12"
- X TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- ⑤ INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12" PEDESTRIAN SIGNAL SECTION
- VIDEO DETECTION

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	INCAND. WATTAGE	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	135	0.50	675
(YELLOW)	10	135	0.25	337.5
(GREEN)	10	135	0.25	337.5
ARROW	16	135	0.10	216
PED. SIGNAL	-	90	1.00	-
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	-	-	0.50	-
TOTAL =				1566

ENERGY COSTS BILLED TO: IDOT/DIVISION OF HIGHWAY DISTRICT 1
(ADDRESS) 201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: JULIE SNOW
PHONE: 1-866-639-3532
COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION

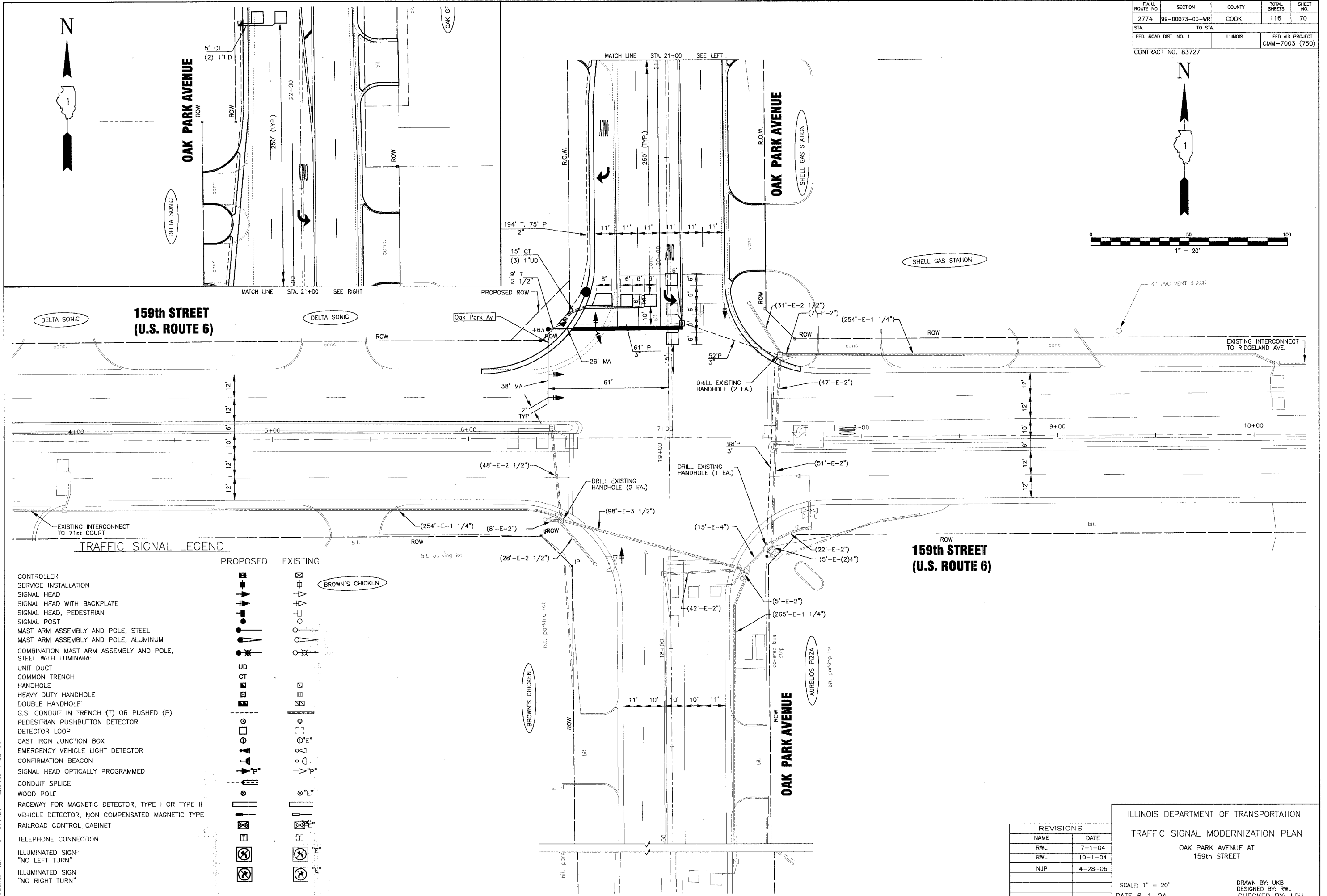
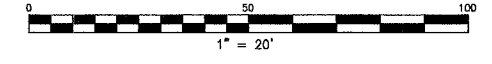
TEMPORARY TRAFFIC SIGNAL
CABLE AND PHASE DESIGNATION DIAGRAM
OAK PARK AVENUE AT
159th STREET

SCALE: NONE
DATE: 6-1-04

DRAWN BY: UKB
DESIGNED BY: RWL
CHECKED BY: RWL

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 Plotted: 4-29-06 @ 4:31pm By: 231ukb
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F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	70
STA.	TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO. 1	ILLINOIS		CMM-700.3 (750)	
CONTRACT NO. 83727				



TRAFFIC SIGNAL LEGEND

- | | | |
|--|-----------------|-----------------|
| <p>CONTROLLER
SERVICE INSTALLATION
SIGNAL HEAD
SIGNAL HEAD WITH BACKPLATE
SIGNAL HEAD, PEDESTRIAN
SIGNAL POST
MAST ARM ASSEMBLY AND POLE, STEEL
MAST ARM ASSEMBLY AND POLE, ALUMINUM
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
UNIT DUCT
COMMON TRENCH
HANDHOLE
HEAVY DUTY HANDHOLE
DOUBLE HANDHOLE
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
PEDESTRIAN PUSHBUTTON DETECTOR
DETECTOR LOOP
CAST IRON JUNCTION BOX
EMERGENCY VEHICLE LIGHT DETECTOR
CONFIRMATION BEACON
SIGNAL HEAD OPTICALLY PROGRAMMED
CONDUIT SPLICE
WOOD POLE
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
RAILROAD CONTROL CABINET
TELEPHONE CONNECTION
ILLUMINATED SIGN
"NO LEFT TURN"
ILLUMINATED SIGN
"NO RIGHT TURN"</p> | <p>PROPOSED</p> | <p>EXISTING</p> |
|--|-----------------|-----------------|

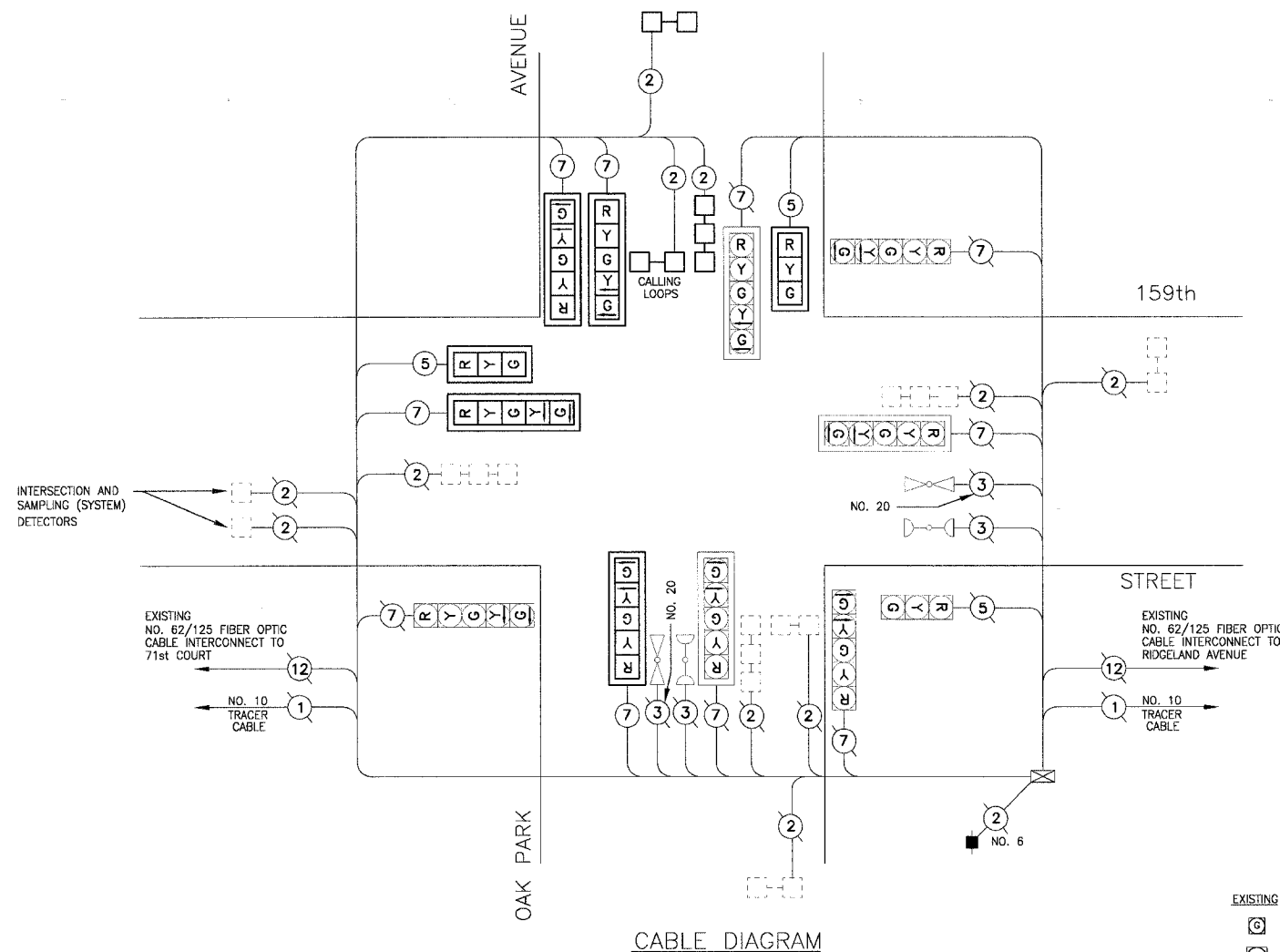
REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL MODERNIZATION PLAN
OAK PARK AVENUE AT
159th STREET

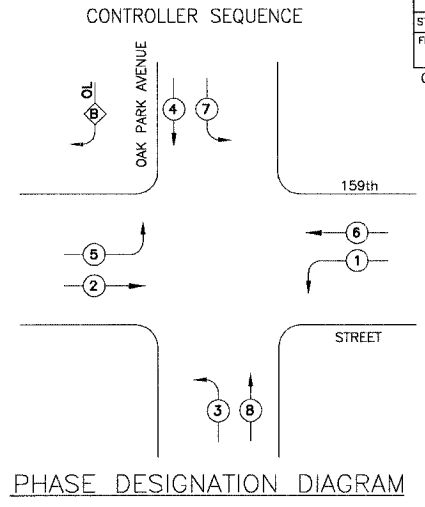
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DATE 6-1-04

DRAWN BY: UKB
DESIGNED BY: RWL
CHECKED BY: LDH

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CABLE DIAGRAM



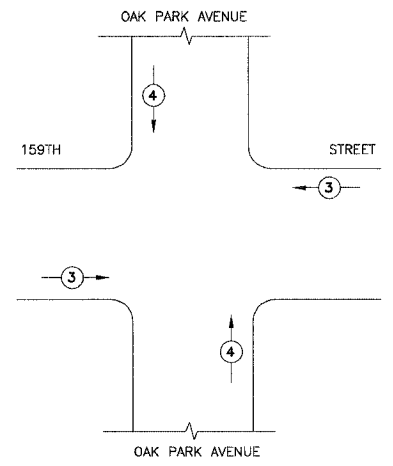
PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE	DISPLAY
B	= 4	+ 5	- 4

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		GROUND CABLE IN CONDUIT
		FIBER OPTIC CABLE IN CONDUIT
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTORS	3 4
MOVEMENT	

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ. FT.	9
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	194
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	9
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	75
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	211
HANDHOLE	EACH	2
HEAVY DUTY HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	203
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	530
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1204
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1138
CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	15
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE 1	FOOT	350
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2048
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	3023
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 26 FT.	EACH	1

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	8.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE	-	SIGNAL POST	2	BRACKET MOUNTED	13
24"	10"	CONTROLLER CAB.	6	PED. PUSHBUTTON	4
30"	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. LAMPS	INCAND. WATTAGE	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	135	0.50	877.50
(YELLOW)	13	135	0.25	438.75
(GREEN)	13	135	0.25	438.75
ARROW	10	135	0.10	135
PED. SIGNAL	-	90	1.00	-
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	-	-	0.50	-
TOTAL =				1990

ENERGY COSTS BILLED TO: IDOT/DIVISION OF HIGHWAY DISTRICT 1 (ADDRESS) 201 WEST CENTER COURT SCHLAUBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: JULIE SNOW PHONE: 1-866-639-3532 COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

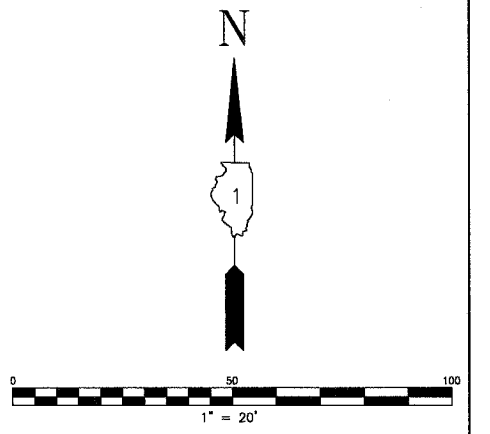
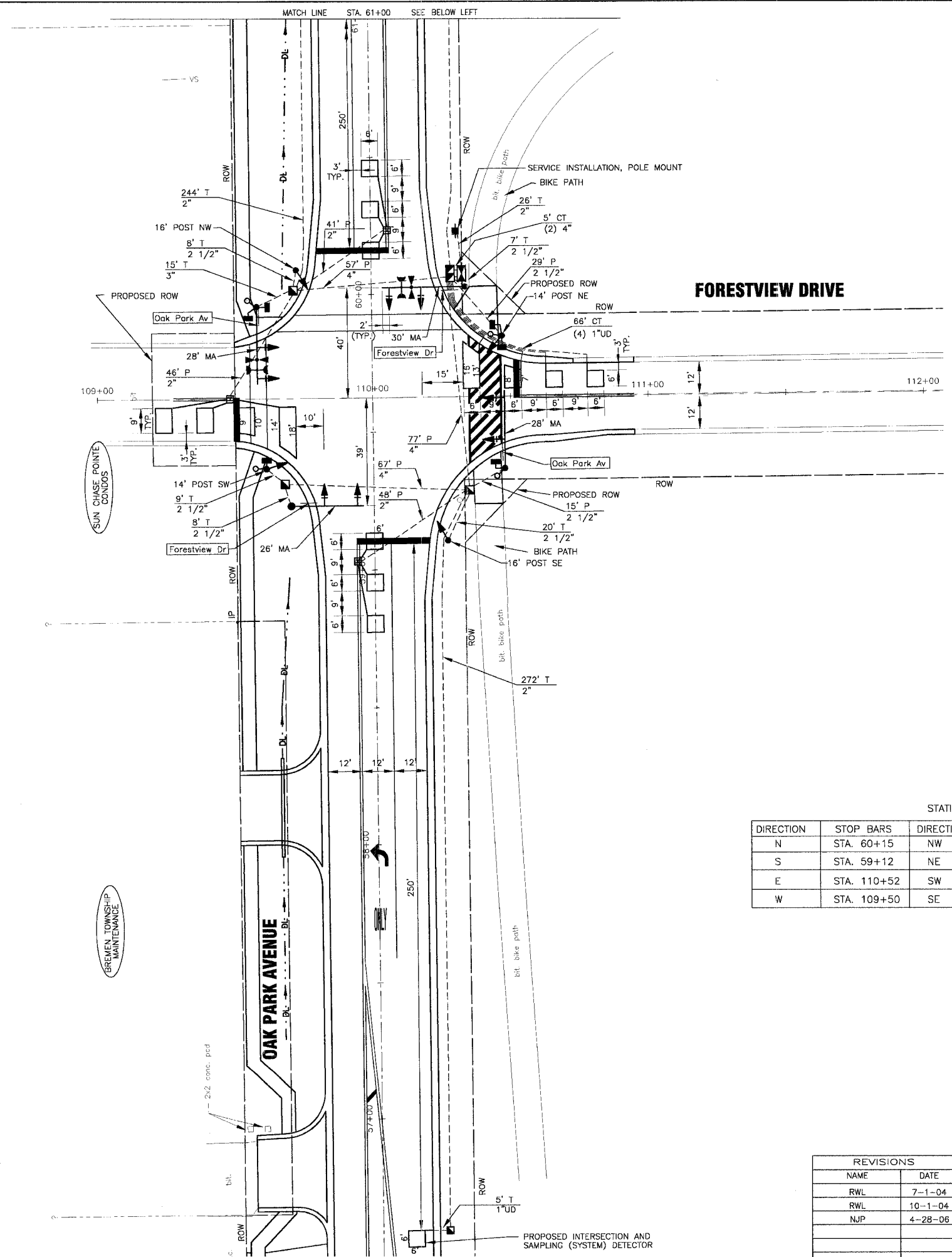
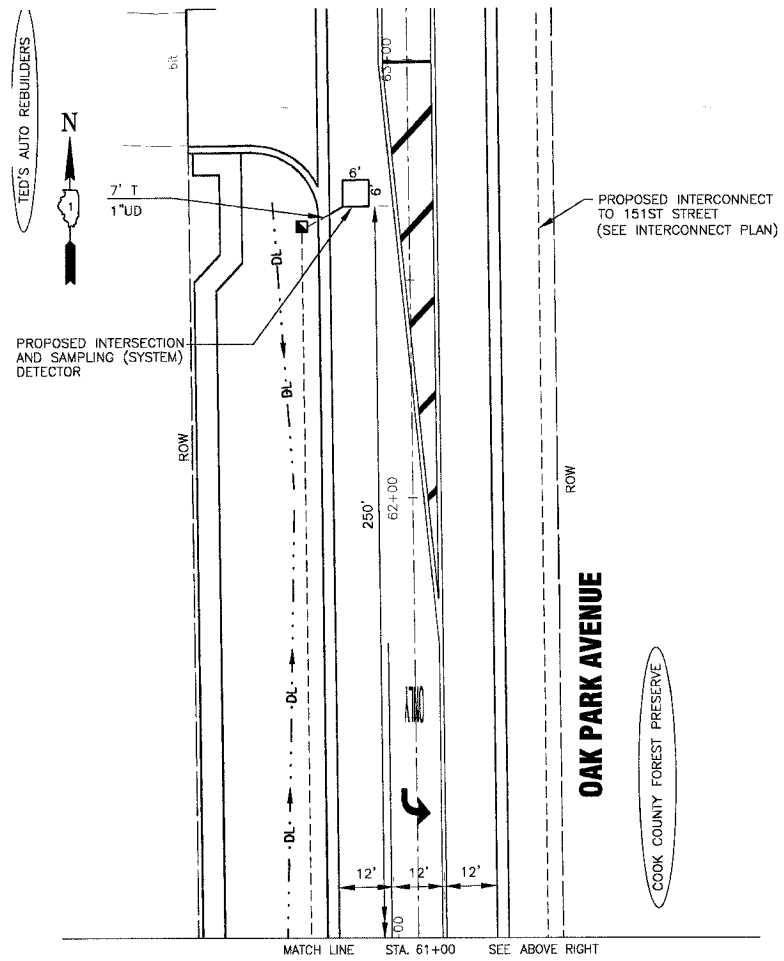
ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE AND PHASE DESIGNATION DIAGRAM OAK PARK AVENUE AT 159th STREET

SCALE: NONE DATE: 6-1-04

DRAWN BY: UKB DESIGNED BY: RWL CHECKED BY: RWL

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 Plotted: 5-0-06 @ 10:30am By: 354rjp
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 License No. 184-001121 Expires 4-30-05



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "NO RIGHT TURN"		

STATION OFFSETS

DIRECTION	STOP BARS	DIRECTION	MAST ARM	SIGNAL POST
N	STA. 60+15	NW	STA. 59+96, 42' LT.	STA. 60+09, 28' LT.
S	STA. 59+12	NE	STA. 60+02, 34' RT.	STA. 59+84, 47' RT.
E	STA. 110+52	SW	STA. 59+23, 30' LT.	STA. 59+38, 39' LT.
W	STA. 109+50	SE	STA. 59+37, 48' RT.	STA. 59+11, 27' RT.

REVISIONS

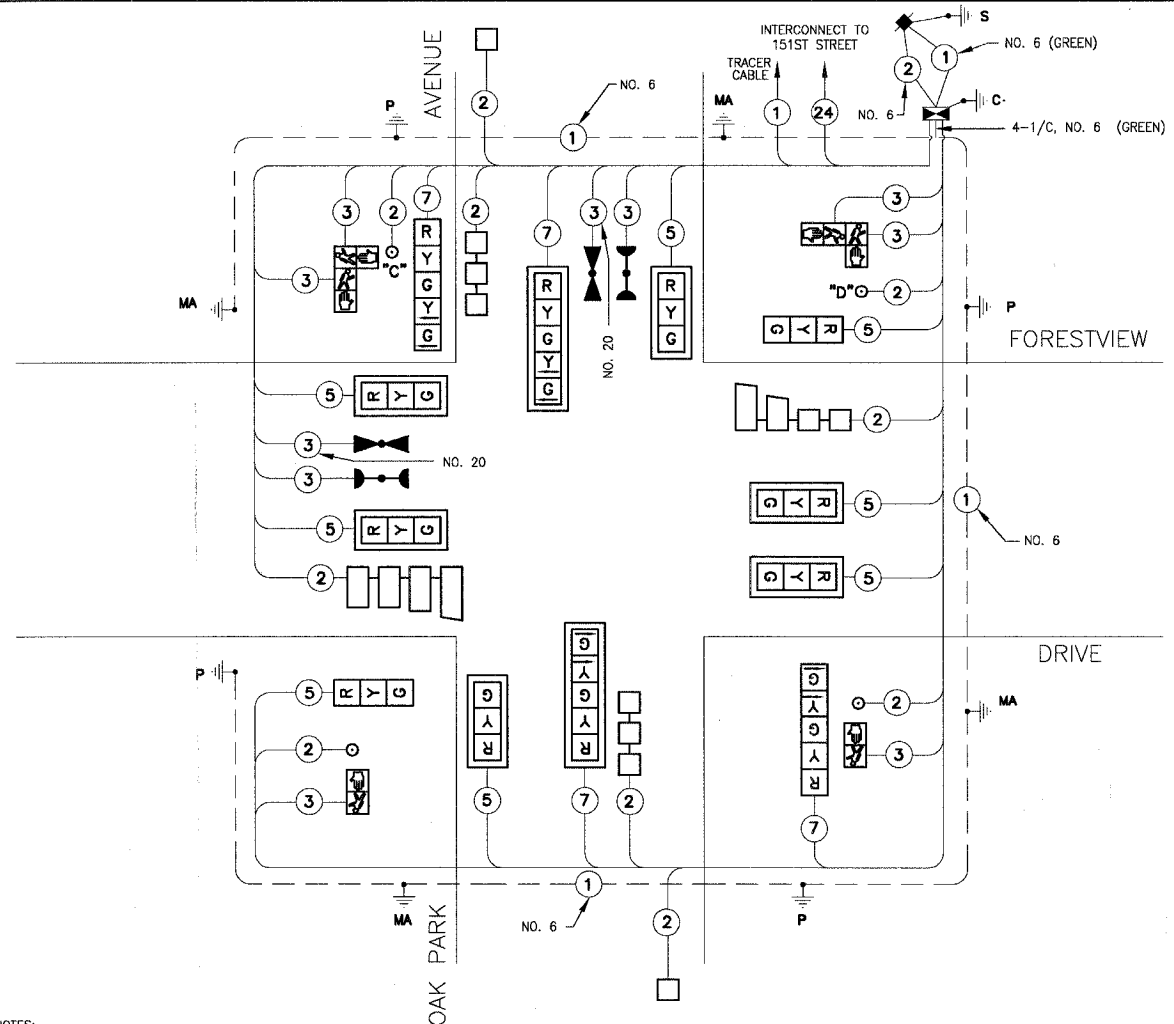
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INSTALLATION PLAN
 OAK PARK AVENUE AT
 FORESTVIEW DRIVE

SCALE: 1" = 20'
 DATE 6-1-04

DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: LDH

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NOTES:
 PUSHBUTTON "G" SHALL PLACE A CALL IN PHASES 6 AND 8
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

CABLE DIAGRAM

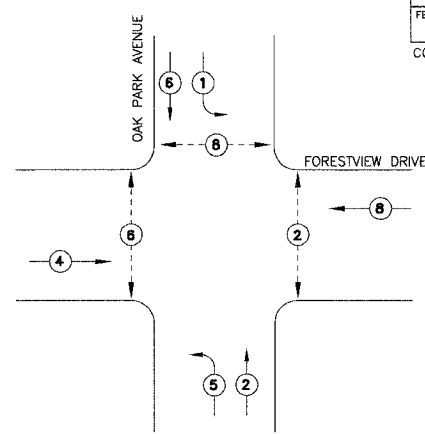
SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	36
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	552
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	52
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	15
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	135
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	44
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	201
HANDHOLE	EACH	5
HEAVY DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	629
PULL - ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	498
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	964
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1252
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	575
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1347
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	42
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	60
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE 1	FOOT	760
LIGHT DETECTOR	EACH	1
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH BUTTON	EACH	4
SERVICE INSTALLATION, POLE MOUNT	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	462
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	241
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	2

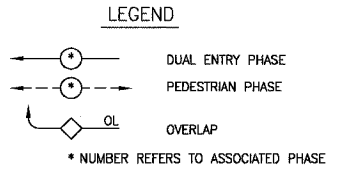
FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE	10	SIGNAL POST	2	BRACKET MOUNTED	13
24"	10	CONTROLLER CAB.	6	PED. PUSHBUTTON	4
30"	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

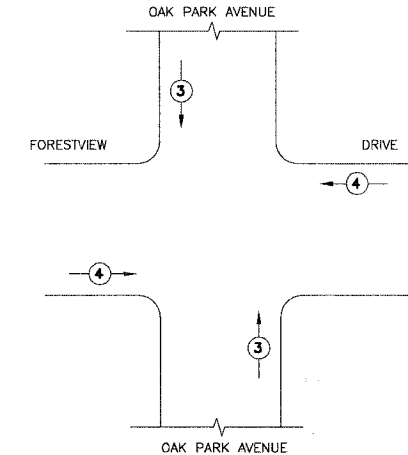
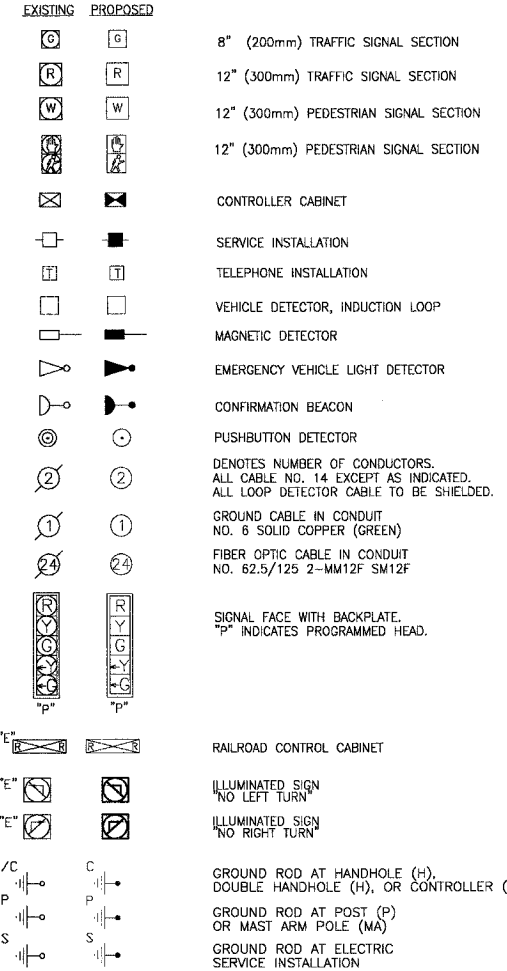
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



CABLE PLAN LEGEND



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑	→

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	17	0.50	102
SIGNAL (YELLOW)	12	25	0.25	75
SIGNAL (GREEN)	12	15	0.25	45
ARROW	8	12	0.10	10
PED. SIGNAL	6	25	1.00	150
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	-	-	0.50	-
TOTAL =				482

ENERGY COSTS BILLED TO: ILLINOIS DEPARTMENT OF HIGHWAY DISTRICT 1 (ADDRESS) 201 WEST CENTER COURT SCHALMABURG, IL 60196-1096

ENERGY SUPPLY CONTACT: JULIE SNOW PHONE: 1-866-639-3532 COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL

CABLE AND PHASE DESIGNATION DIAGRAM

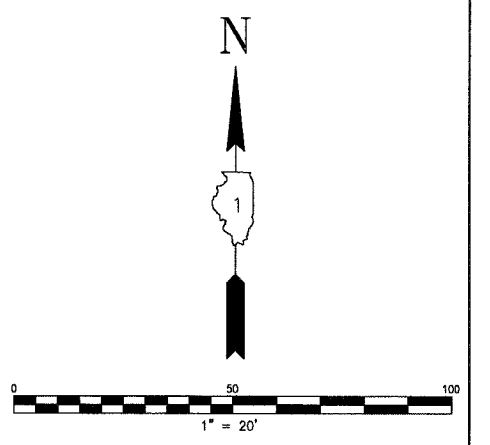
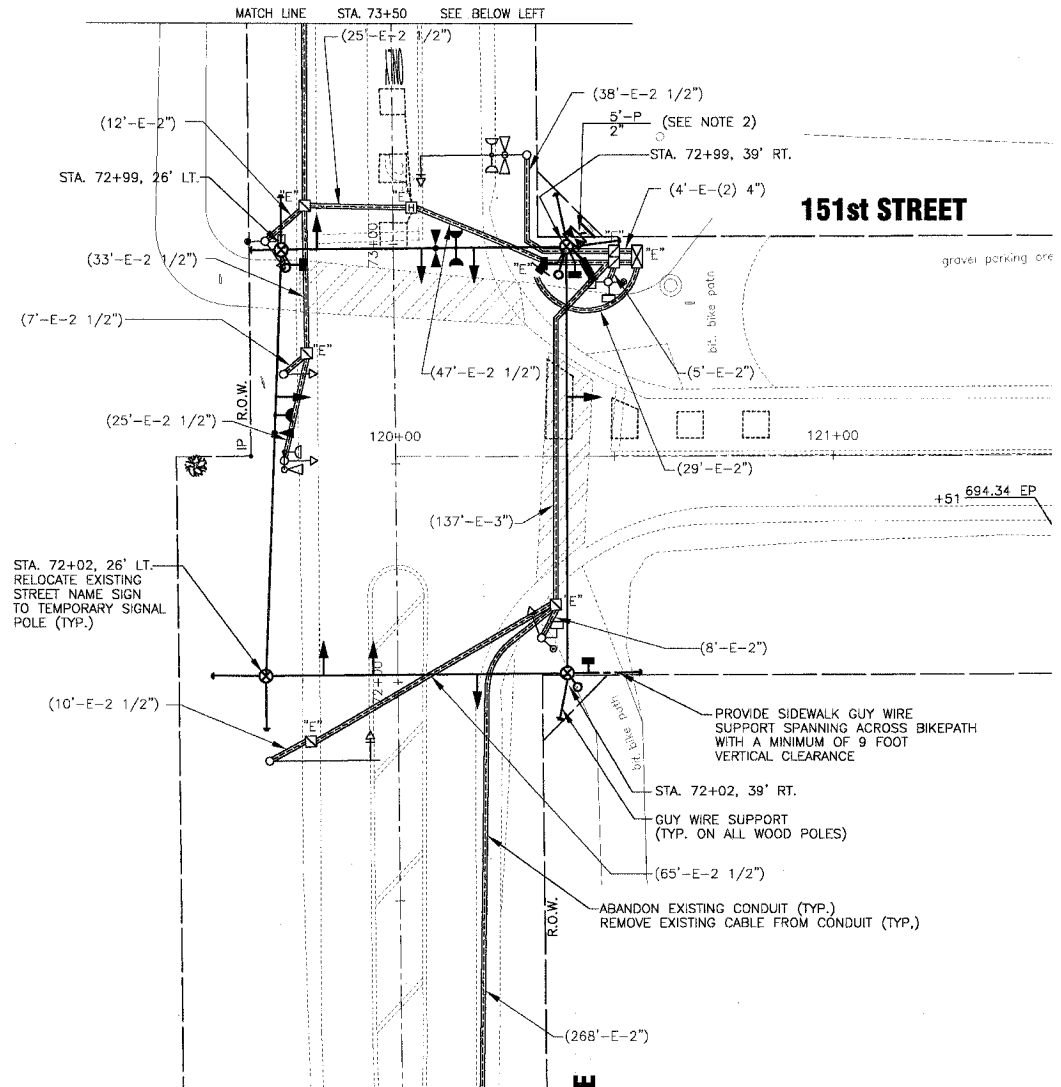
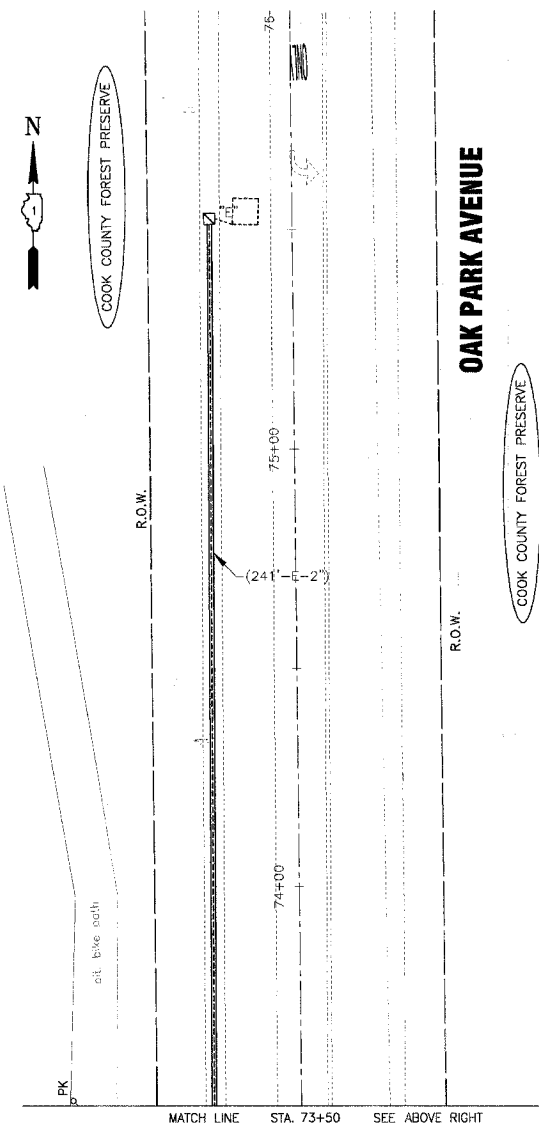
OAK PARK AVENUE AT FORESTVIEW DRIVE

SCALE: NONE DATE: 6-1-04

DRAWN BY: UKB DESIGNED BY: RWL CHECKED BY: RWL

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 Station: 184-1001121 Expires: 4-30-05
 License No.

F.A. LI. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	74
STA.	TO STA.		FED. ROAD DIST. NO. 1	
			ILLINOIS	
			FED. AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - 1 EACH

THE FOLLOWING EXISTING SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 3 EACH SIGNAL HEAD, 1-FACE, 3 SECTION, BRACKET MOUNTED
- 1 EACH SIGNAL HEAD, 1-FACE, 5 SECTION, BRACKET MOUNTED
- 1 EACH SIGNAL HEAD, 1-FACE, 3 SECTION, MAST ARM MOUNTED
- 1 EACH SIGNAL HEAD, 1-FACE, 5 SECTION, MAST ARM MOUNTED
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 3 EACH PEDESTRIAN PUSH BUTTON
- 5 EACH TRAFFIC SIGNAL POST
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON
- 1 EACH SERVICE INSTALLATION
- 3078 FOOT REMOVE ELECTRICAL CABLE FROM CONDUIT

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- EXISTING SIGNAL HEAD TO BE REMOVED
- EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- EXISTING HANDHOLE TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- EXISTING PEDESTRIAN PUSH-BUTTON TO BE REMOVED
- EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- CONFIRMATION BEACON TO BE REMOVED
- EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

NOTES:

1. NONE OF THE EXISTING TRAFFIC SIGNAL HARDWARE SHALL BE REMOVED UNTIL THE TEMPORARY TRAFFIC SIGNAL INSTALLATION HAS BEEN INSTALLED AND TESTED.
2. INSTALL NEW ELECTRIC SERVICE ON RELOCATED POWER POLE.
3. ABANDON ALL EXISTING CONDUIT AND REMOVE EXISTING CABLE FROM CONDUIT.

TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- MICROWAVE VEHICLE SENSOR
- PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- HEAVY DUTY HANDHOLE
- COMMON TRENCH

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL (S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT THE TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL AT THE TIME OF THE TURN ON IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN AND EXISTING TRAFFIC SIGNAL REMOVAL PLAN

OAK PARK AVENUE AT 151st STREET

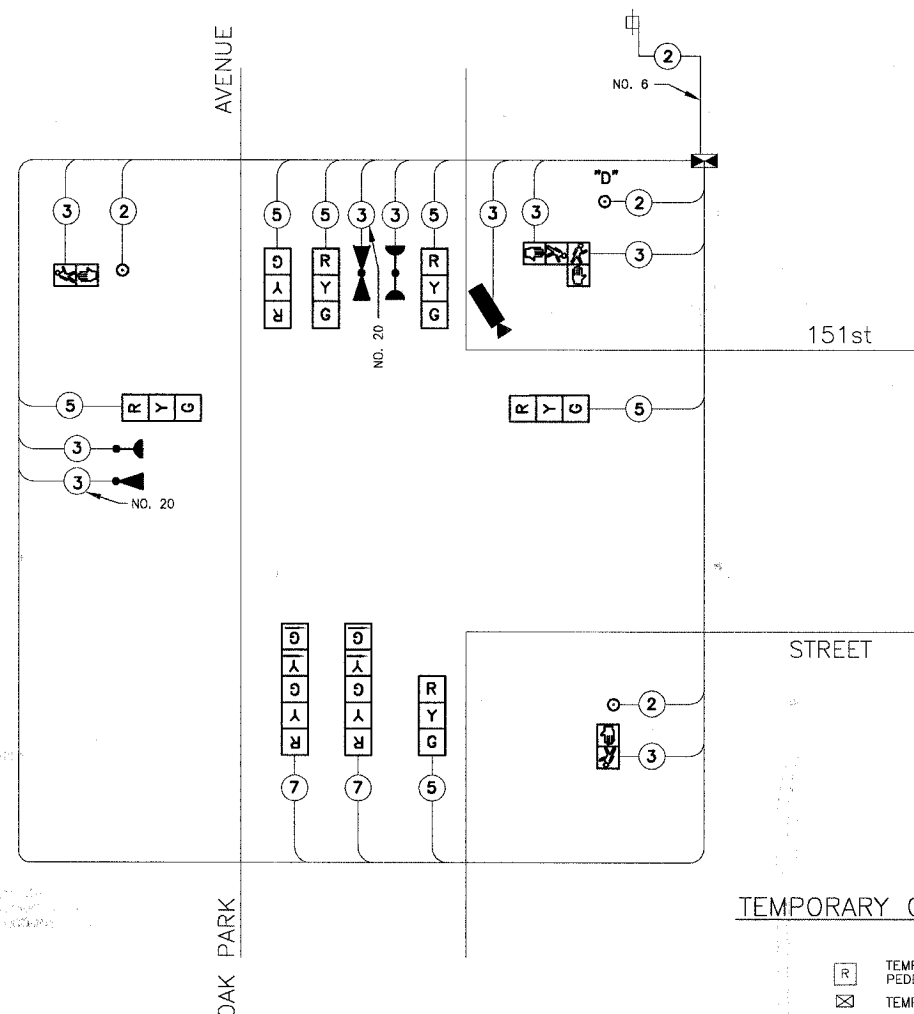
SCALE: 1" = 20'

DATE: 6-1-04

DRAWN BY: UKB
DESIGNED BY: RWL
CHECKED BY: LDH

C:\Land Projects\2004\MOBILENA-DWGS\000146\00146\DWGS\20146-50ALLS.dwg
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 Scale: 1" = 20' Plot Date: 6/1/04
 State of Illinois - Federal Highway Administration, Inc.
 Project No. 99-00073-00-121 - Expans 4, 30, 05
 Revision No. 1

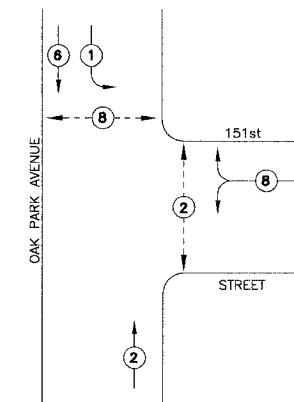
F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	75
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT	
CONTRACT NO. 83727			CMM-7003 (750)	



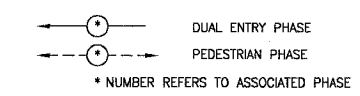
TEMPORARY CABLE DIAGRAM

NOTES:
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

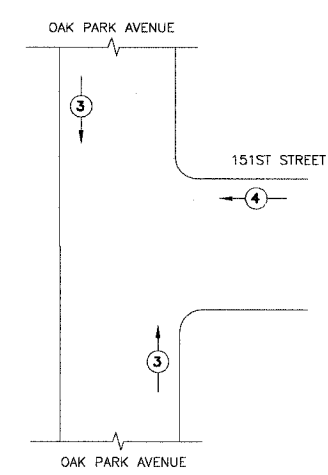
CONTROLLER SEQUENCE



LEGEND



TEMPORARY PHASE DESIGNATION DIAGRAM



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑	→

TEMPORARY CABLE DIAGRAM LEGEND

- ⊠ TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12"
- ⊞ TEMPORARY CONTROLLER CABINET
- ⊞ TEMPORARY SERVICE INSTALLATION
- ⑤ INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ▶ EMERGENCY VEHICLE LIGHT DETECTOR
- ▶ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- ⊞ 12" PEDESTRIAN SIGNAL SECTION
- MICROWAVE VEHICLE SENSOR

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	x WATTAGE	x %OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	17	0.50	77
(YELLOW)	9	25	0.25	56
(GREEN)	9	15	0.25	34
ARROW	4	12	0.10	5
PED. SIGNAL	25	25	1.00	100
CONTROLLER	100	100	1.00	100
ILLUM. SIGN	40	40	0.50	20
STREET LIGHTS	250	250	0.50	125
FLASHER	1	1	0.50	0.50
TOTAL =				372

ENERGY COSTS BILLED TO DISTRICT 1 DIVISION OF HIGHWAY

ADDRESS: 201 WEST CENTER COURT, CHICAGO, ILL. 60601

ENERGY SUPPLY CONTACT: JULIE SNOW, PHONE: 1-866-639-3532, COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04

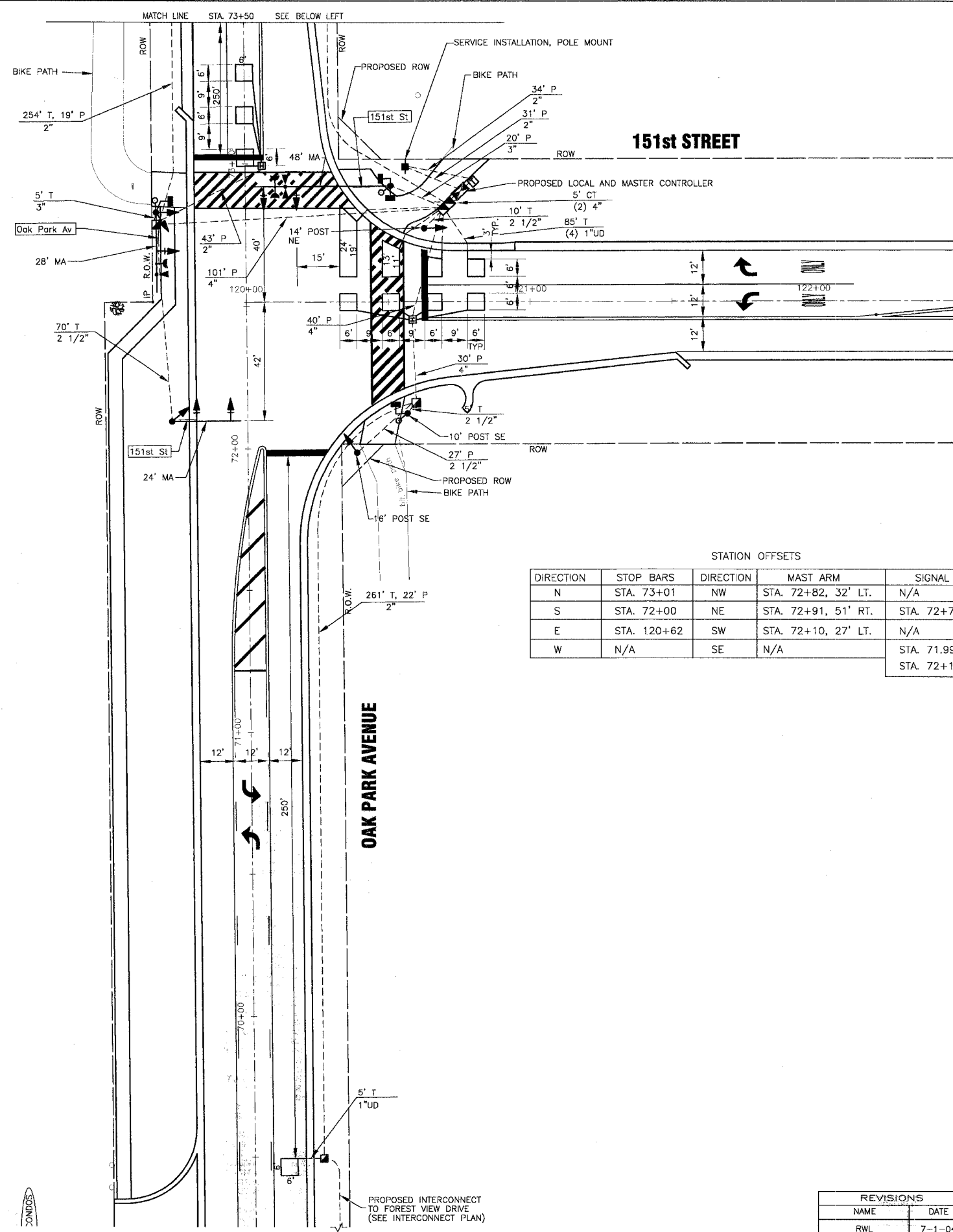
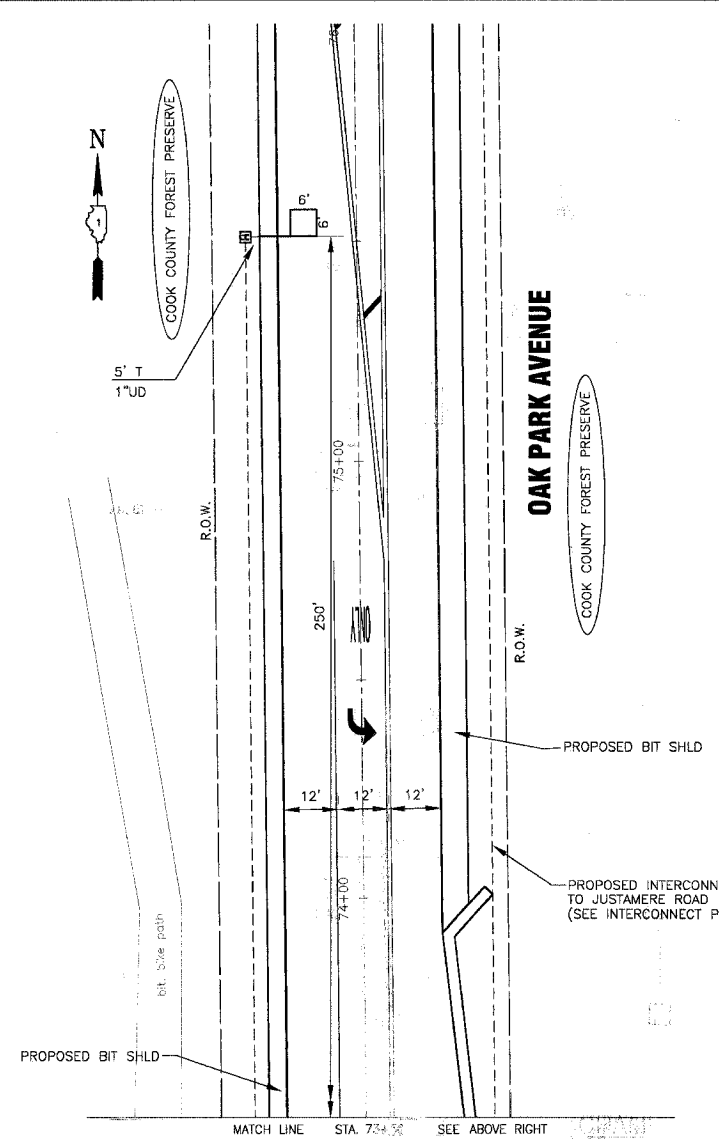
ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE AND PHASE DESIGNATION DIAGRAM OAK PARK AVENUE AT 151ST STREET

SCALE: NONE
DATE: 6-1-04

DRAWN BY: UKB
DESIGNED BY: RWL
CHECKED BY: RWL

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 Plotted: 4-29-05 @ 7:46pm By: 231.kbb
 Copyright © 2004, By Boxer & Woodman, Inc.
 State of Illinois - Professional Design Firm
 License No. 0-184-001121 - Expires 4-30-05



STATION OFFSETS

DIRECTION	STOP BARS	DIRECTION	MAST ARM	SIGNAL POST
N	STA. 73+01	NW	STA. 72+82, 32' LT.	N/A
S	STA. 72+00	NE	STA. 72+91, 51' RT.	STA. 72+76, 63' RT.
E	STA. 120+62	SW	STA. 72+10, 27' LT.	N/A
W	N/A	SE	N/A	STA. 71.99, 38' RT. STA. 72+12, 56' RT.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "NO RIGHT TURN"		

REVISIONS

NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC SIGNAL
 INSTALLATION PLAN**
 OAK PARK AVENUE AT
 151ST STREET

SCALE: 1" = 20'
 DATE 6-1-04

DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: LDH

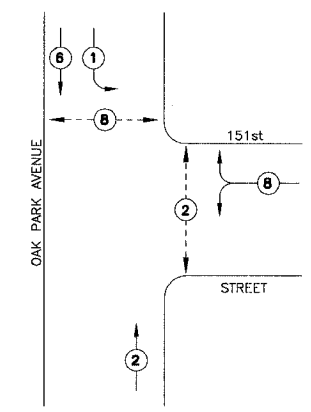
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 State of Illinois - Professional Design Firm, Inc.
 License No. 164-001121 - Expires 4-30-05

F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-DD-WR	COOK	116	77
STA.	TO STA.		ILLINOIS	FED. AID PROJECT
FED. ROAD DIST. NO. 1				CMM-7003 (750)
CONTRACT NO. 83727				

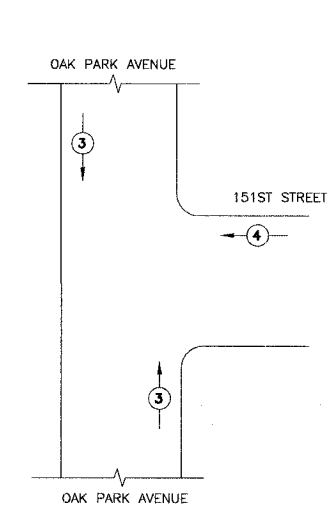
CABLE PLAN LEGEND

- | | |
|--|---|
| | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | CONTROLLER CABINET |
| | SERVICE INSTALLATION |
| | TELEPHONE INSTALLATION |
| | VEHICLE DETECTOR, INDUCTION LOOP |
| | MAGNETIC DETECTOR |
| | EMERGENCY VEHICLE LIGHT DETECTOR |
| | CONFIRMATION BEACON |
| | PUSHBUTTON DETECTOR |
| | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F |
| | SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD. |
| | RAILROAD CONTROL CABINET |
| | ILLUMINATED SIGN "NO LEFT TURN" |
| | ILLUMINATED SIGN "NO RIGHT TURN" |
| | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| | GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |

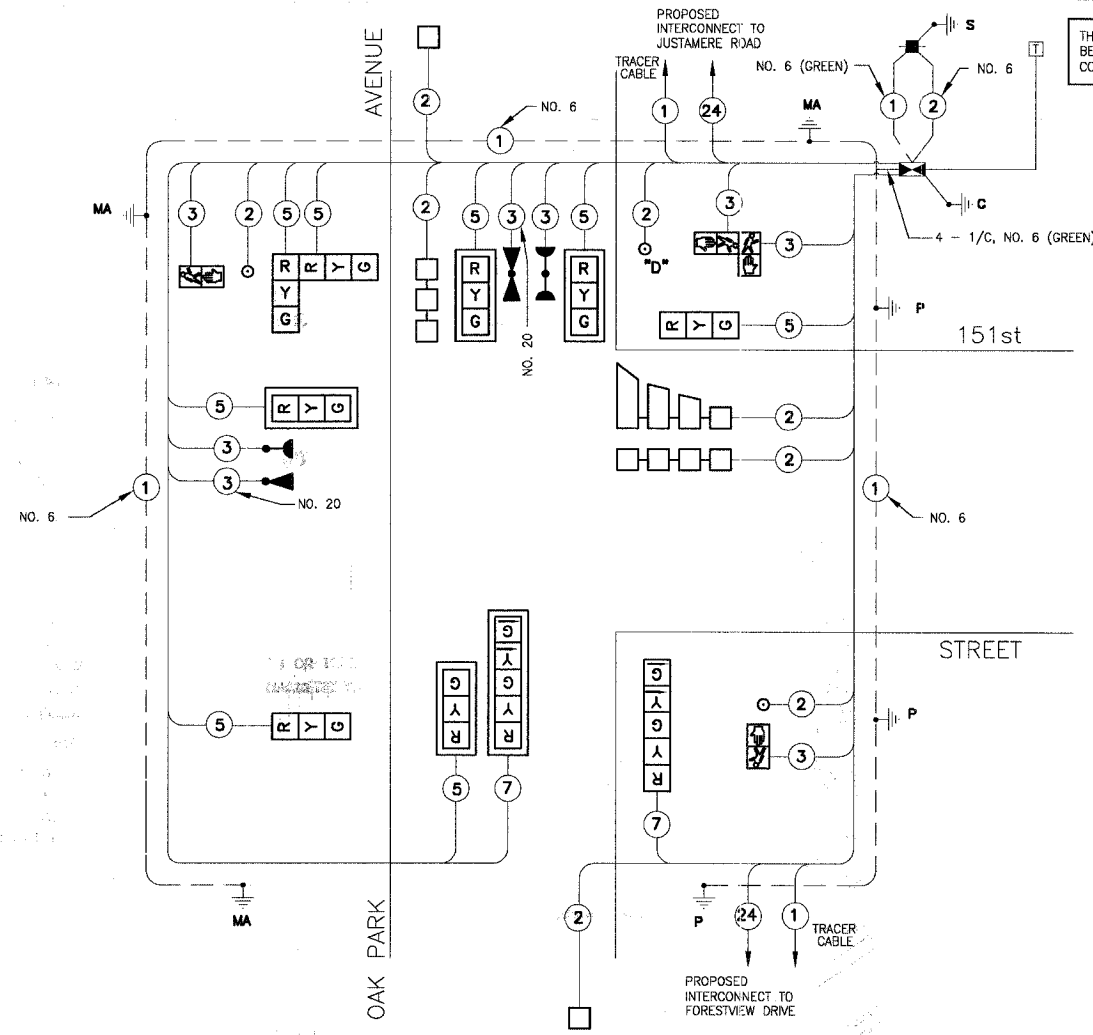
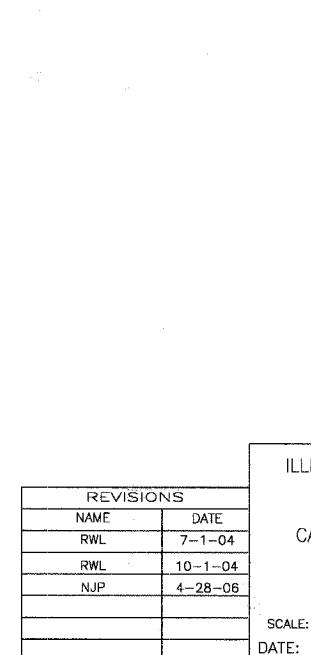
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE DIAGRAM

NOTES:
PUSHBUTTON "P" SHALL PLACE A CALL IN PHASES 2 AND 8

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	21
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	515
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	85
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	5
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	149
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	27
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	20
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	171
HANDHOLE	EACH	3
HEAVY DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	615
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL - ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	315
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	690
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1385
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	398
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1083
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	47
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 36" DIAMETER	FOOT	15
TRAFFIC SIGNAL BACKPLATE, LQUVERED	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE 1	FOOT	593
LIGHT DETECTOR	EACH	1
LIGHT DETECTOR AMPLIFIER	EACH	3
PEDESTRIAN PUSH BUTTON	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2771
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
SERVICE INSTALLATION, POLE MOUNT	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	445
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	288
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. LAMPS	LED WATTAGE	%OPERATION	WATTAGE
SIGNAL (RED)	12	17	0.50	202
(YELLOW)	12	25	0.25	75
(GREEN)	12	15	0.25	45
ARROW	4	12	0.10	5
PED. SIGNAL	4	25	1.00	100
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	-	-	0.50	-
TOTAL =				422

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE	-	SIGNAL POST	2	BRACKET MOUNTED	13
24"	10"	CONTROLLER CAB.	6	PED. PUSHBUTTON	4
30"	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

ENERGY COSTS BILLED TO: ILLINOIS DEPARTMENT OF HIGHWAY DISTRICT 1 (ADDRESS) 201 WEST CENTER COURT SCHAMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: JULIE SNOW PHONE: 1-866-639-3532 COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL
CABLE AND PHASE DESIGNATION DIAGRAM
OAK PARK AVENUE AT
151st STREET

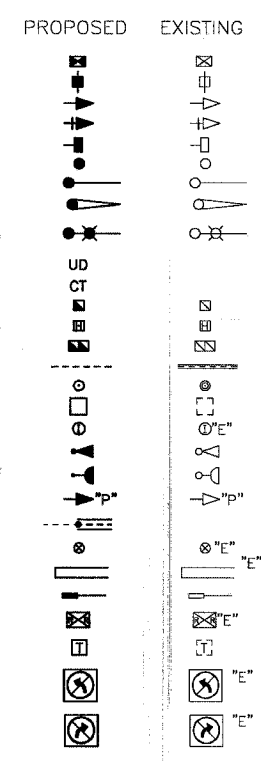
SCALE: NONE
DATE: 6-1-04

DRAWN BY: UKB
DESIGNED BY: RWL
CHECKED BY: RWL

C:\land Projects\2004\WAKEFIELD\WAGS\OAKPARK\20146\DWG\20146-CABLE.dwg
Plotted: 4/29/06 @ 7:50pm By: 231ub
Copyright © 2004, By: Borter & Wocomon, Inc.
Note: All rights reserved. Professional Design Firm.
Contract No. 20146-00112 - Expires 4-30-05

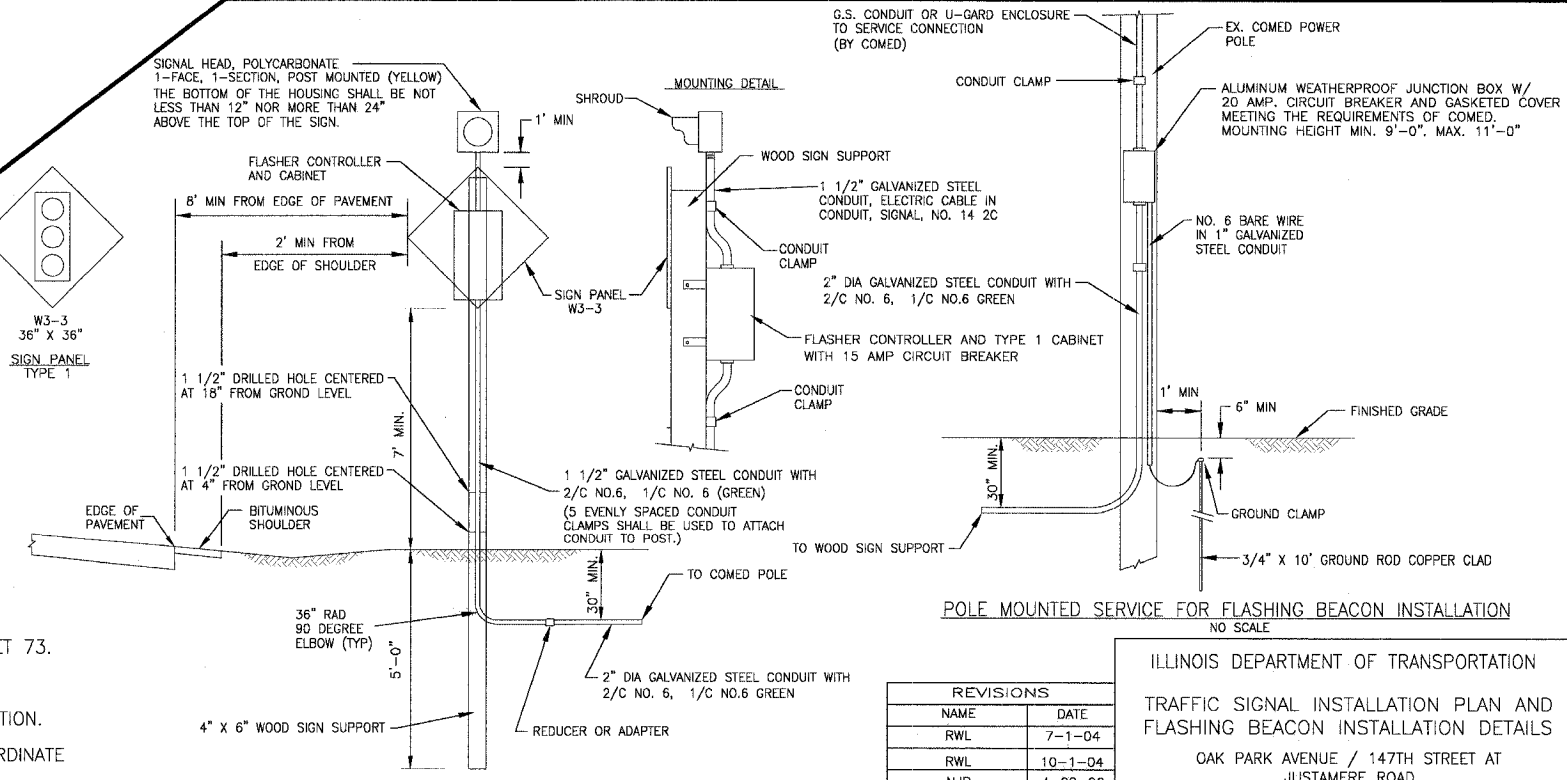
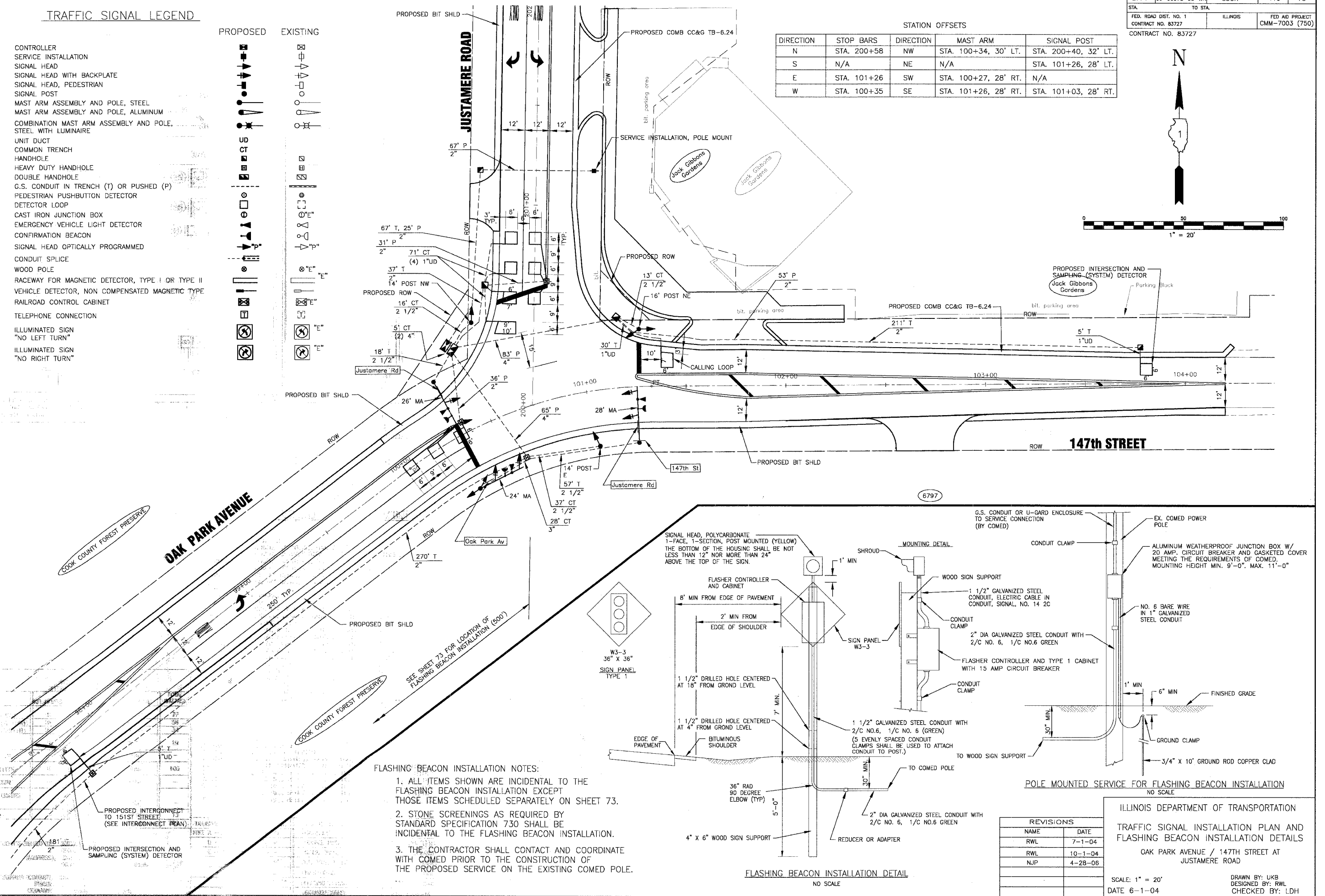
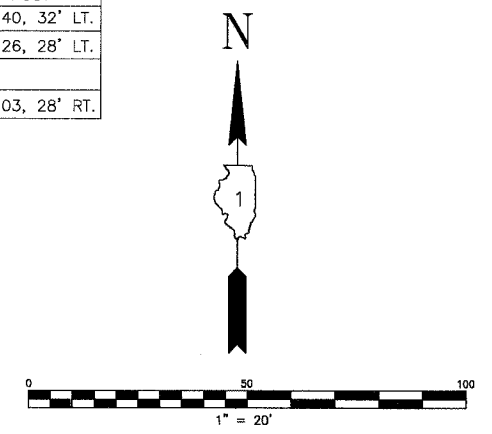
TRAFFIC SIGNAL LEGEND

- CONTROLLER**
 SERVICE INSTALLATION
 SIGNAL HEAD
 SIGNAL HEAD WITH BACKPLATE
 SIGNAL HEAD, PEDESTRIAN
 SIGNAL POST
 MAST ARM ASSEMBLY AND POLE, STEEL
 MAST ARM ASSEMBLY AND POLE, ALUMINUM
 COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
 UNIT DUCT
 COMMON TRENCH
 HANDHOLE
 HEAVY DUTY HANDHOLE
 DOUBLE HANDHOLE
 G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
 PEDESTRIAN PUSHBUTTON DETECTOR
 DETECTOR LOOP
 CAST IRON JUNCTION BOX
 EMERGENCY VEHICLE LIGHT DETECTOR
 CONFIRMATION BEACON
 SIGNAL HEAD OPTICALLY PROGRAMMED
 CONDUIT SPLICE
 WOOD POLE
 RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
 VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
 RAILROAD CONTROL CABINET
 TELEPHONE CONNECTION
 ILLUMINATED SIGN
 "NO LEFT TURN"
 ILLUMINATED SIGN
 "NO RIGHT TURN"



STATION OFFSETS

DIRECTION	STOP BARS	DIRECTION	MAST ARM	SIGNAL POST
N	STA. 200+58	NW	STA. 100+34, 30' LT.	STA. 200+40, 32' LT.
S	N/A	NE	N/A	STA. 101+26, 28' LT.
E	STA. 101+26	SW	STA. 100+27, 28' RT.	N/A
W	STA. 100+35	SE	STA. 101+26, 28' RT.	STA. 101+03, 28' RT.

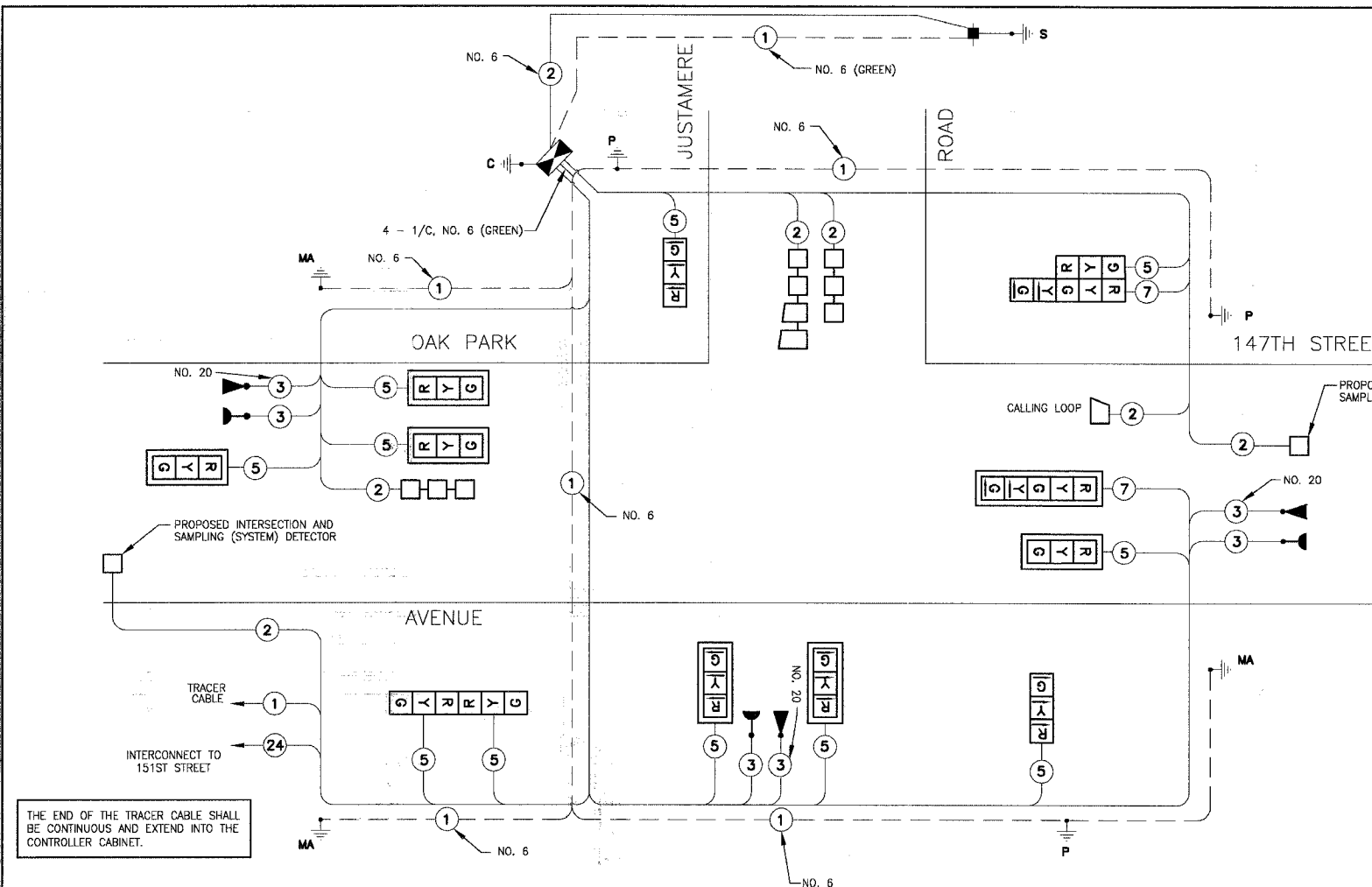


REVISIONS

NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL INSTALLATION PLAN AND FLASHING BEACON INSTALLATION DETAILS
 OAK PARK AVENUE / 147TH STREET AT JUSTAMERE ROAD
 SCALE: 1" = 20'
 DATE 6-1-04
 DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: LDH

Projects: 2004 MCKENA DWGS\JAN11\0201146\DWGS\20146-SIGNALS.dwg
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 User: RWL
 Plot: 6/1/04 10:54 AM
 Plot Device: HPGL2
 Plot Scale: 1:1
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CABLE DIAGRAM

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	34
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	760
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	141
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	28
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	222
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	148
HANDHOLE	EACH	4
HEAVY DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1120
FULL - ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1027
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1393
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	345
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1109
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	357
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	45
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE 1	FOOT	617
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	622
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	443
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 3 SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2=
M - M. ARM POLE	24"	SIGNAL POST	2	BRACKET MOUNTED	13
30"	10"	CONTROLLER CAB.	6	PED. PUSHBUTTON	4
	30"	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

CABLE PLAN LEGEND

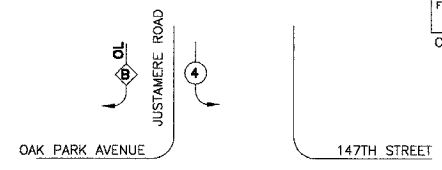
EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTIVE LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		2 1 24 24
		1 1 1
		2 1 1
		1 1 1
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN NO LEFT TURN
		ILLUMINATED SIGN NO RIGHT TURN
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

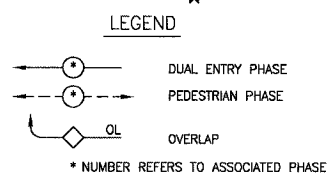
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. LAMPS	WATTAGE	% OPERATION	REMARKS
SIGNAL (RED)	9	17	0.50	
(YELLOW)	9	25	0.25	
(GREEN)	9	15	0.25	
ARROW	16	12	0.10	
PED. SIGNAL	-	25	1.00	
CONTROLLER	1	100	1.00	
ILLUM. SIGN	-	40	0.50	
STREET LIGHTS	-	250	0.50	
FLASHER	1	25	0.50	
TOTAL				

ENERGY COSTS BILLED TO: DISTRICT 1
 ADDRESS: 201 WEST CENTER COURT
 SCHAUMBURG, IL 60196-0196
 ENERGY SUPPLY CONTACT: JULIE SNOW
 PHONE: 1-866-639-3532
 COMPANY: COMMONWEALTH EDISON

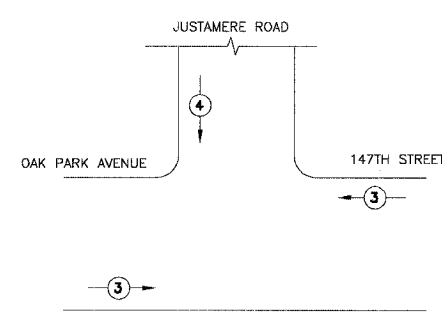
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



RIGHT TURN OVERLAP PHASE DESIGNATION



PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTORS	3 4
MOVEMENT	← →

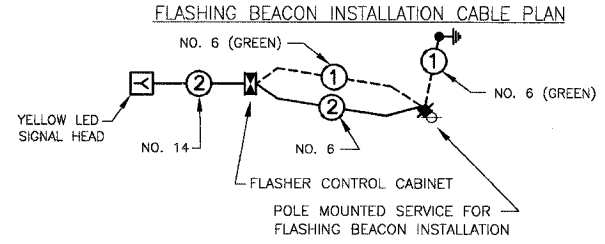
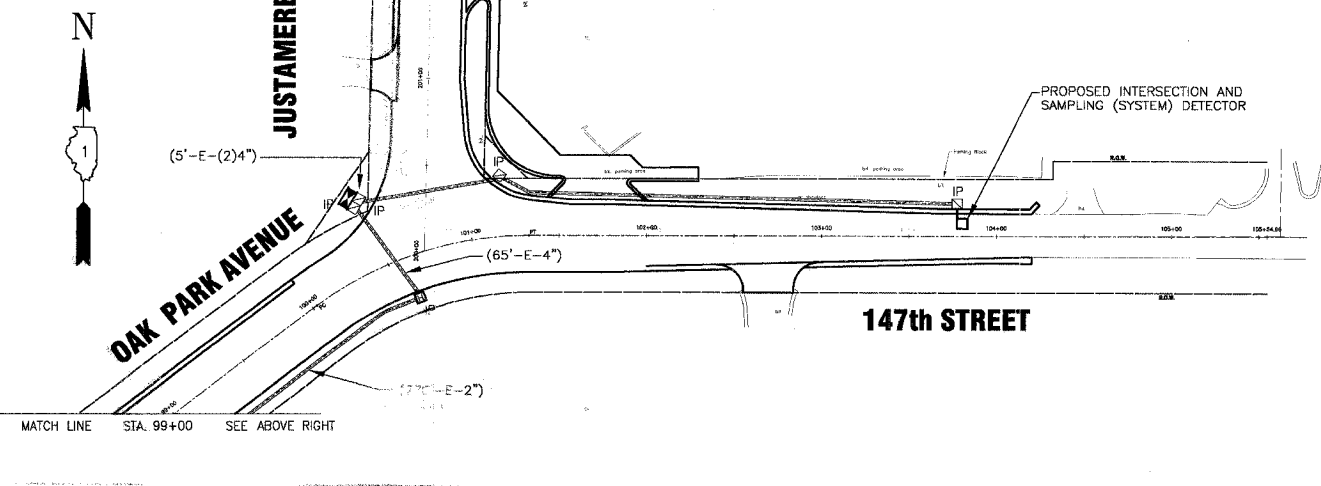
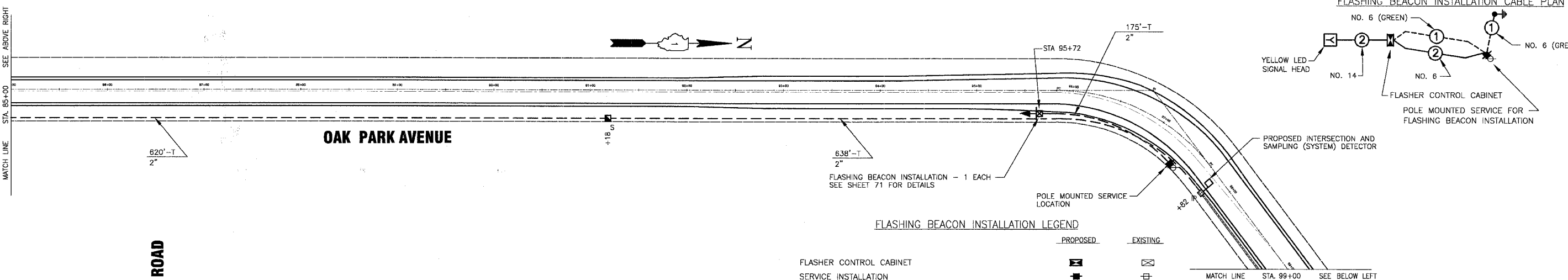
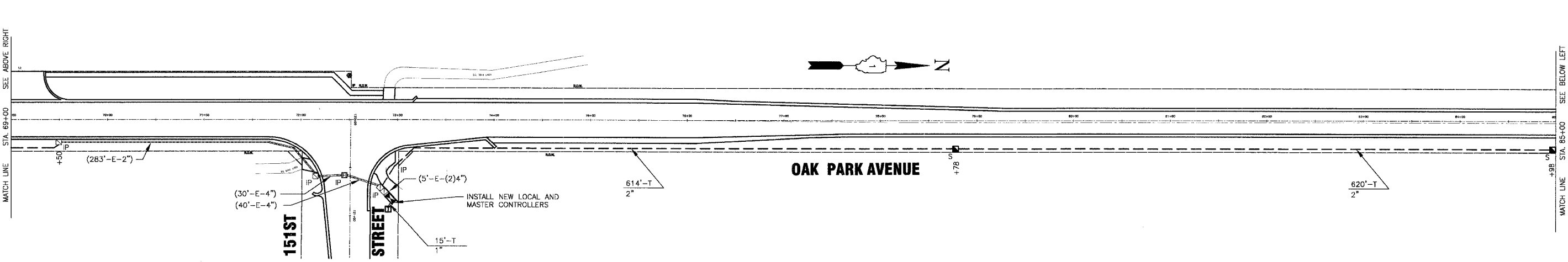
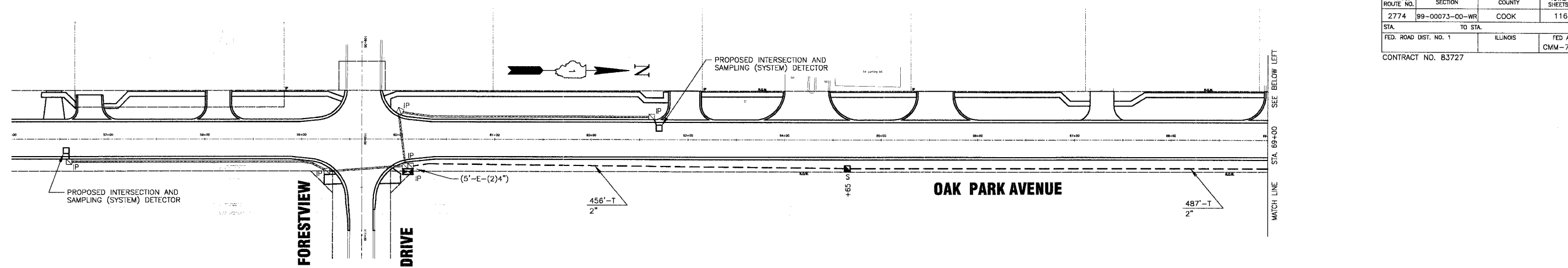
EMERGENCY VEHICLE PREEMPTION SEQUENCE

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL
 CABLE AND PHASE DESIGNATION DIAGRAM
 OAK PARK AVENUE / 147 ST AT
 JUSTAMERE ROAD
 SCALE: NONE
 DATE: 6-1-04
 DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: RWL

I:\OAKPK\2004\DWG\20146-DBL.dwg
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 Date: 4/30/04, By: Baxter & Woodman, Inc.
 Title: Illinois - Professional Design Firm
 Sheet No.: 164-001121 Expires: 4/30/05

F.A.I. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	80
STA.	TO STA.	ILLINOIS		FED AID PROJECT CMM-7003 (750)
FED. ROAD DIST. NO. 1		CONTRACT NO. 83727		



FLASHING BEACON INSTALLATION LEGEND

PROPOSED	EXISTING
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]

INTERCONNECT PLAN LEGEND

PROPOSED	EXISTING
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[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
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[Symbol]	[Symbol]

FLASHING BEACON INSTALLATION SCHEDULE OF QUANTITIES

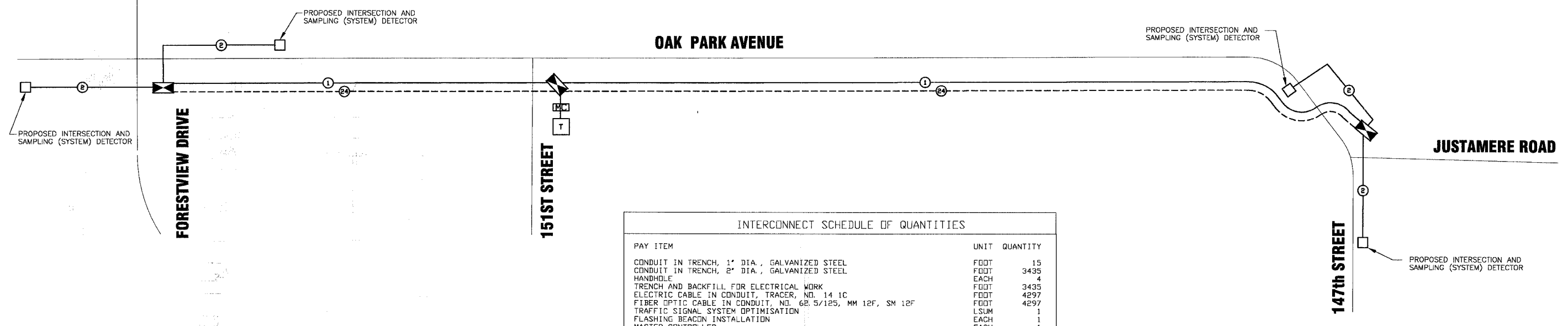
CODE NUMBER	ITEM	QUANTITY
81000600	FLASHING BEACON INSTALLATION	1 EACH
87301805	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	175 FOOT
X8730027	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	175 FOOT
X8050015	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	175 FOOT
X8050015	SERVICE INSTALLATION - POLE MOUNTED	1 EACH

REVISIONS

NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERCONNECT PLAN,
 FLASHING BEACON INSTALLATION PLAN
 AND CABLE DIAGRAM
 OAK PARK AVENUE
 FROM FORESTVIEW DRIVE TO JUSTAMERE ROAD
 SCALE: 1" = 50'
 DATE: 6-1-04
 DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: LDH

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 File: 20146-SCNLS.dwg
 Printer: HP DesignJet 5000 Series
 Plotter: HP DesignJet 5000 Series
 Date: 4/29/06 8:00 PM
 Expires: 4/30/05



INTERCONNECT SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	15
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	3435
HANDHOLE	EACH	4
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	3435
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4297
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM 12F, SM 12F	FOOT	4297
TRAFFIC SIGNAL SYSTEM OPTIMISATION	LSUM	1
FLASHING BEACON INSTALLATION	EACH	1
MASTER CONTROLLER	EACH	1

INTERCONNECT SCHEMATIC LEGEND

- EXISTING INTERSECTION CONTROLLER
- PROPOSED INTERSECTION CONTROLLER
- EXISTING MASTER CONTROLLER
- PROPOSED MASTER CONTROLLER
- MASTER MASTER CONTROLLER
- EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- EXISTING INTERSECTION LOOP DETECTORS
- PROPOSED SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) DETECTORS
- PROPOSED SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS.
- EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED SAMPLING (SYSTEM) DETECTORS.
- EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS
- PROPOSED SAMPLING (SYSTEM) PREFORMED DETECTORS
- EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
- PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
- EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
- PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
- EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
- PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
- EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)
- PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)
- EXISTING TELEPHONE CONNECTION
- PROPOSED TELEPHONE CONNECTION

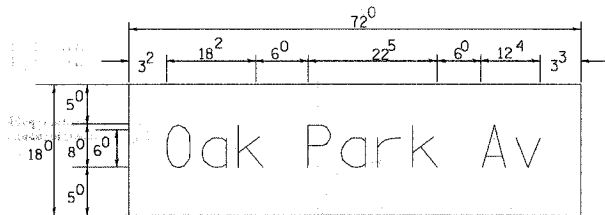
REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERCONNECT SCHEMATIC AND
 SCHEDULE OF QUANTITIES
 OAK PARK AVENUE
 FROM FOREST VIEW DRIVE TO JUSTAMERE ROAD
 SCALE: NONE
 DATE: 6-1-04
 DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: RWL

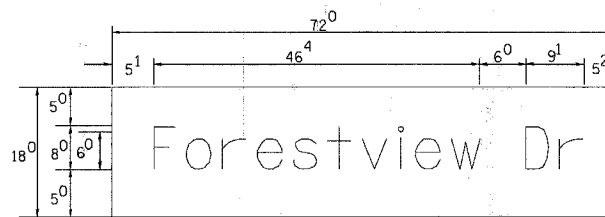
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 Copyright © 2007 By: Baxter & Woodman, Inc.
 State of Illinois Professional Design Firm #03-05
 License No. - 184-001121 - Expires 4-30-05

•REF-
•REF-
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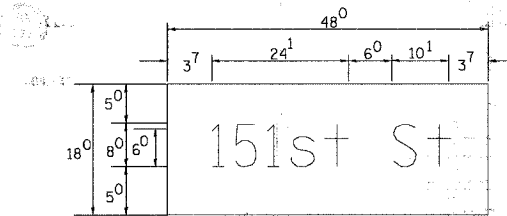
PANEL SIGN DESIGN TYPE 1



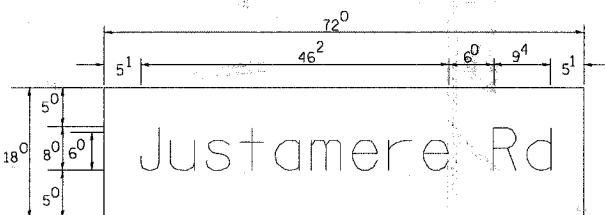
___ Sq. M. each
9.0 Sq. Ft. each
5 Required
Design Series_D



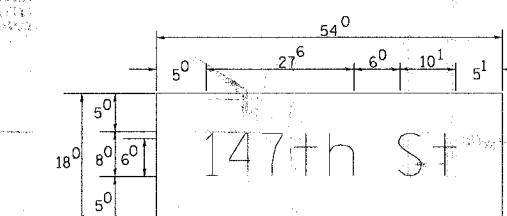
___ Sq. M. each
9.0 Sq. Ft. each
2 Required
Design Series_C



___ Sq. M. each
6.0 Sq. Ft. each
2 Required
Design Series_D



___ Sq. M. each
9.0 Sq. Ft. each
2 Required
Design Series_C



___ Sq. M. each
6.75 Sq. Ft. each
1 Required
Design Series_D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

PANEL SIGN DESIGN TYPE 2

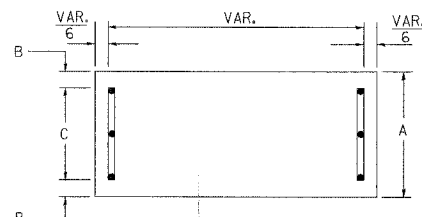
GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
 - * A.K.T. CORPORATION
 - * SCHLAUMBURG, IL
 - * TUCKER COMPANY, INC.
 - * WAUWATOSA, WI
 - * AMERICAN FABRICATION CO.
 - * CHICAGO HEIGHTS, IL
 - * WESTERN TRAFFIC CONTROL INC.
 - * CICERO, IL

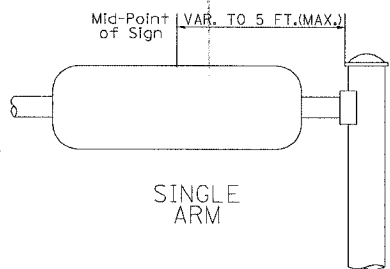
PARTS LISTING
SIGN CHANNEL PART #PN053 (MED. CHANNEL)
SIGN SCREWS 3/8" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
BRACKETS PART #PN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

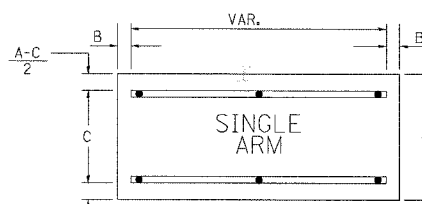
SUPPORTING CHANNELS



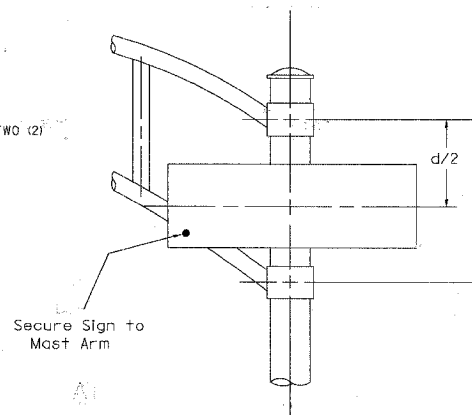
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



DUAL ARM

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM
Shall be used. See Note #5.

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2 DENOTES 3/8"

FIRST LETTER	SECOND LETTER															
	acde		bhikl		f w		j		s t		v y		x z			
	g	o	q	m	n	p	r	u								
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D		
A W X	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ²	1 ⁴
B	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁶	1 ⁷
C E G	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵
D O Q R	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵
F	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²
H I M N	2 ⁰	2 ¹	2 ²	2 ⁴	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹	2 ⁰	2 ¹
J U	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹
K L	1 ¹	1 ²	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
P	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
S	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
T	1 ¹	1 ²	1 ⁶	1 ⁷	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
V	0 ⁶	1 ⁰	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
Y	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁵	0 ⁷	0 ⁵	0 ⁶	0 ⁶	1 ⁰	1 ¹	1 ²
Z	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹

Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

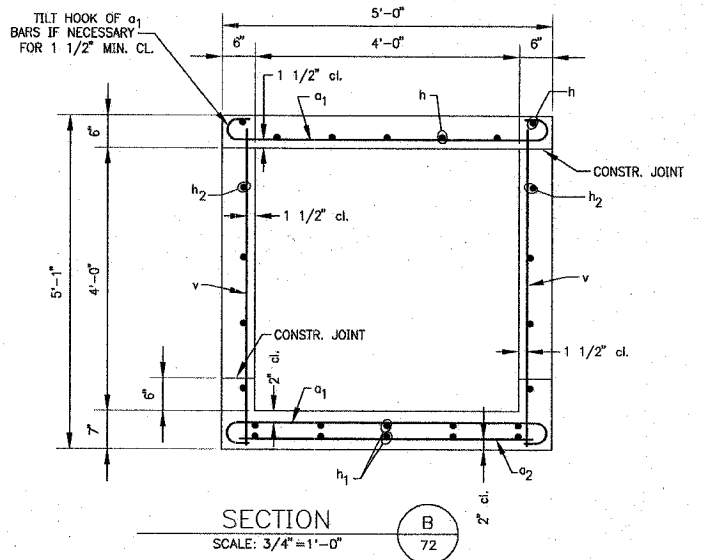
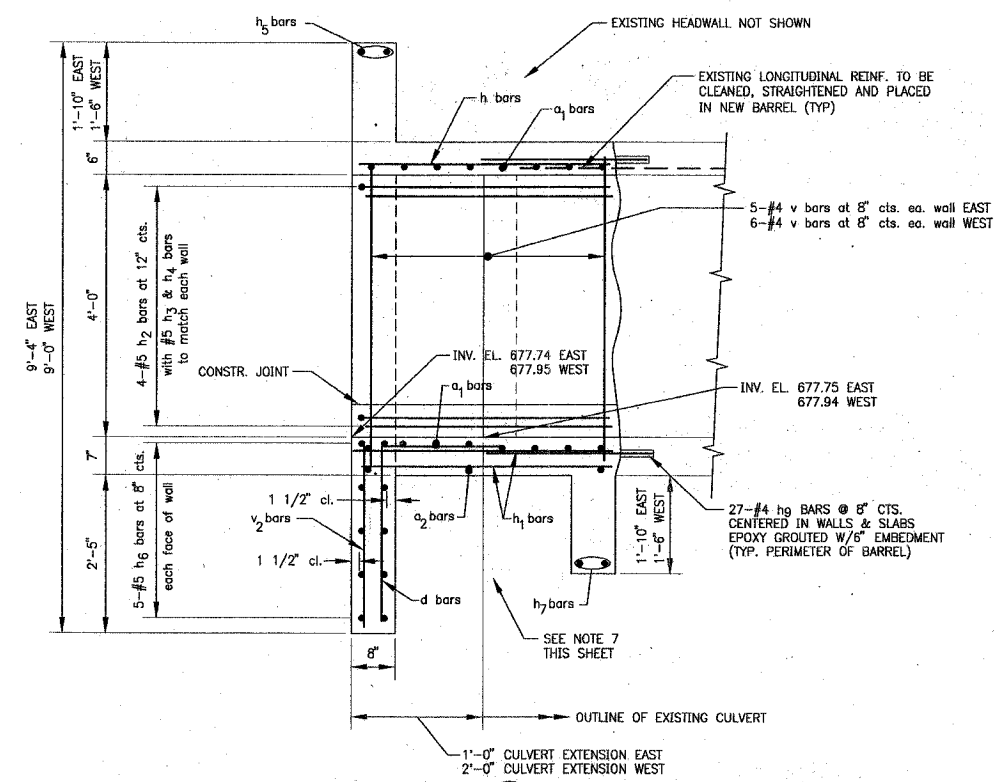
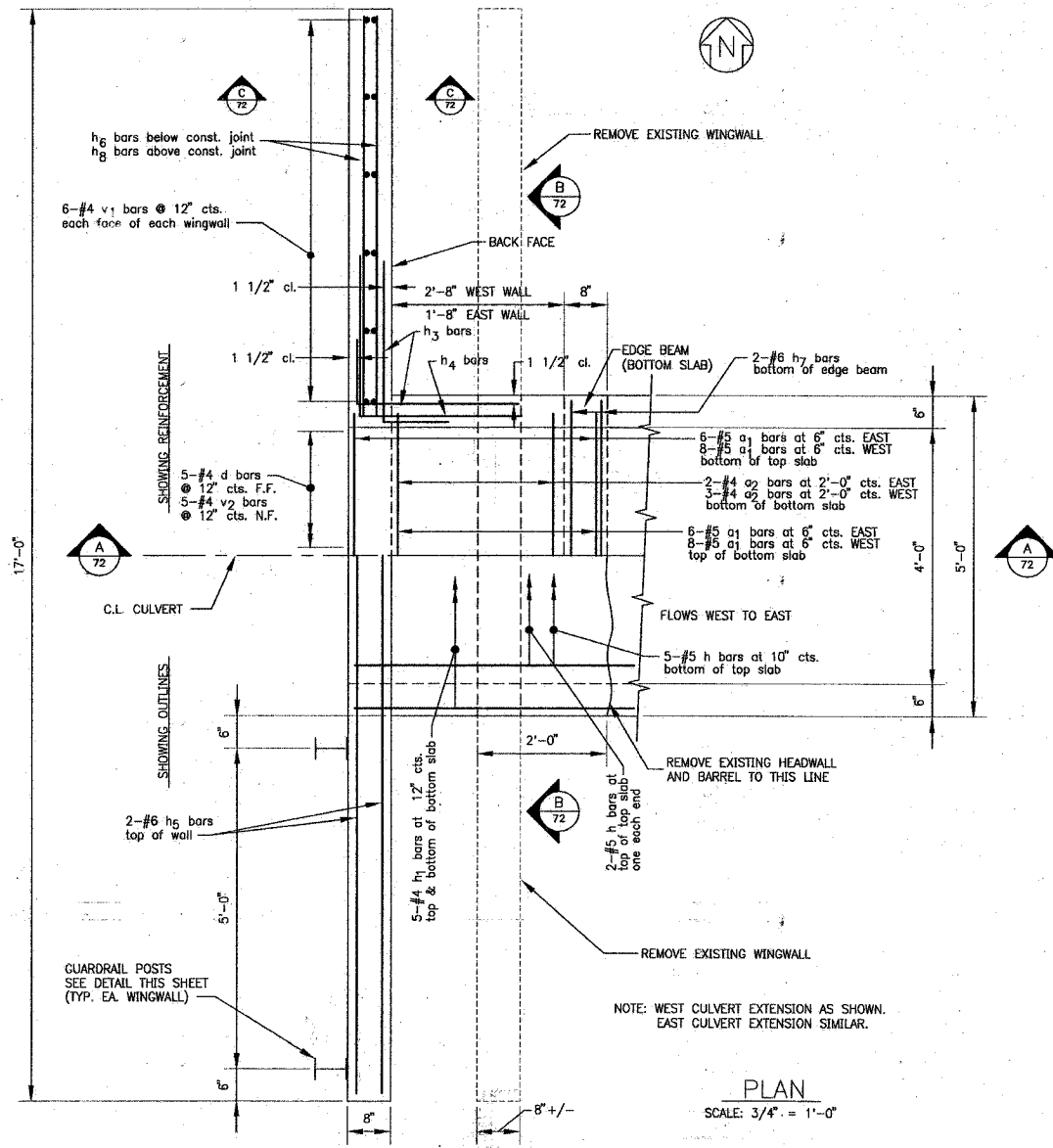
FIRST LETTER	SECOND LETTER															
	acde		bhikl		f w		j		s t		v y		x z			
	g	o	q	m	n	p	r	u								
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D		
adhgi	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷
lmnqu	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
bkops	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
ce	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
r	0 ⁶	1 ⁰	1 ²	1 ⁴	0 ⁶	1 ⁰	0 ³	0 ³	0 ⁵	0 ⁶	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰
+ z	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
v y	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²
w	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
x	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴

Number To Number
Spacing Chart 8 Inch Series "C & D"

FIRST NUMBER	SECOND NUMBER															
	0	1	2	3	4	5	6	7	8	9						
	SERIES	C	D	C	D	C	D	C	D	C	D					
0 9	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁶	1 ⁷
1	2 ⁰	2 ¹	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹	2 ⁰	2 ¹
2 3 4	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²
5	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²
6	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵
7	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁵	0 ⁵	0 ⁶	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²
8	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁶	1 ⁷

LETTERS	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		6 INCH LOWER CASE LETTERS		
	SERIES		SERIES		SERIES		
	C	D	C	D	C	D	
A	3 ⁶	5 ⁰	5 ⁰	6 ⁵	a	3 ⁵	4 ²
B	3 ²	4 ⁰	4 ³	5 ³	b	3 ⁵	4 ²
C	3 ²	4 ⁰	4 ³	5 ³	c	3 ⁵	4 ¹
D	3 ²	4 ⁰	4 ³	5 ³	d	3 ⁵	4 ²
E	3 ⁰	3 ⁵	4 ⁰	4 ⁷	e	3 ⁵	4 ²
F	3 ⁰	3 ⁵	4 ⁰	4 ⁷	f	2 ³	2 ⁶
G	3 ²	4 ⁰	4 ³	5 ³	g	3 ⁵	4 ²
H	3 ²	4 ⁰	4 ³	5 ³	h	3 ⁵	4 ²
I	0 ⁷	0 ⁷	1 ¹	1 ²	i	1 ¹	1 ¹
J	3 ⁰	3 ⁶	4 ⁰	5 ⁰	j	2 ⁰	2 ²
K	3 ²	4 ¹	4 ³	5 ⁴	k	3 ⁵	4 ²
L	3 ⁰	3 ⁵	4 ⁰	4 ⁷	l	1 ¹	1 ¹
M	3 ⁷	4 ⁵	5 ¹	6 ¹	m	6 ⁰	7 ⁰
N	3 ²	4 ⁰	4 ³	5 ³	n	3 ⁵	4 ²
O	3 ⁴	4 ²	4 ⁵	5 ⁵	o	3 ⁶	4 ³
P	3 ²	4 ⁰	4 ³	5 ³	p	3 ⁵	4 ²
Q	3 ⁴	4 ²	4 ⁵	5 ⁵	q	3 ⁵	4 ²
R	3 ²	4 ⁰	4 ³	5 ³	r	2 ⁶	3 ²
S	3 ²	4 ⁰	4 ³	5 ³	s	3 ⁶	4 ²
T	3 ⁰	3 ⁵	4 ⁰	4 ⁷	t	2 ⁷	3 ²
U	3 ²	4 ⁰	4 ³	5 ³	u	3 ⁵	4 ²
V	3 ⁵	4 ⁴	4 ⁷	6 ⁰	v	4 ²	4 ⁷
W	4 ⁴	5 ²	6 ⁰	7 ⁰	w	5 ⁵	6 ⁴
X	3 ⁴	4 ⁰	4 ⁵	5 ³	x	4 ⁴	5 ¹
Y	3 ⁶	5 ⁰	5 ⁰	6 ⁶	y	4 ⁶	5 ³
Z	3 ²	4 ⁰	4 ³				

CONTRACT NO. 83727



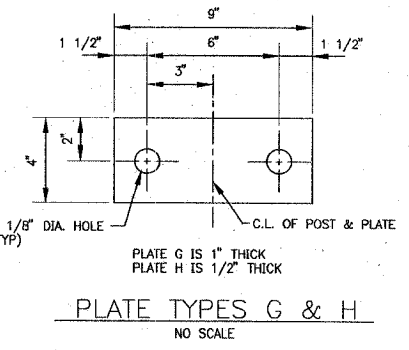
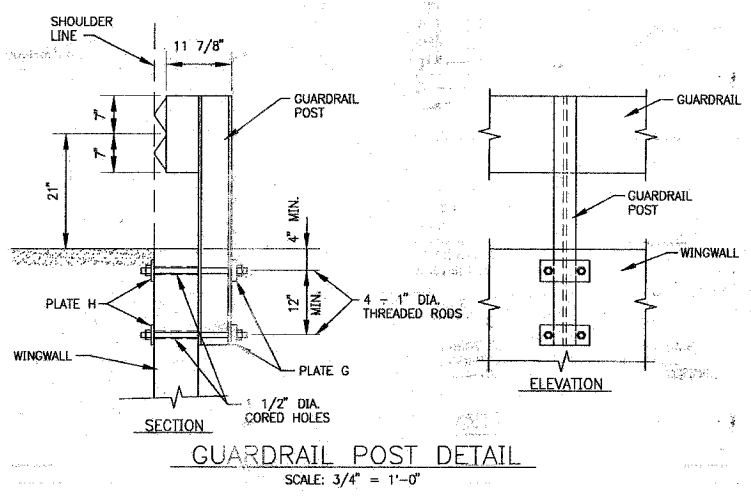
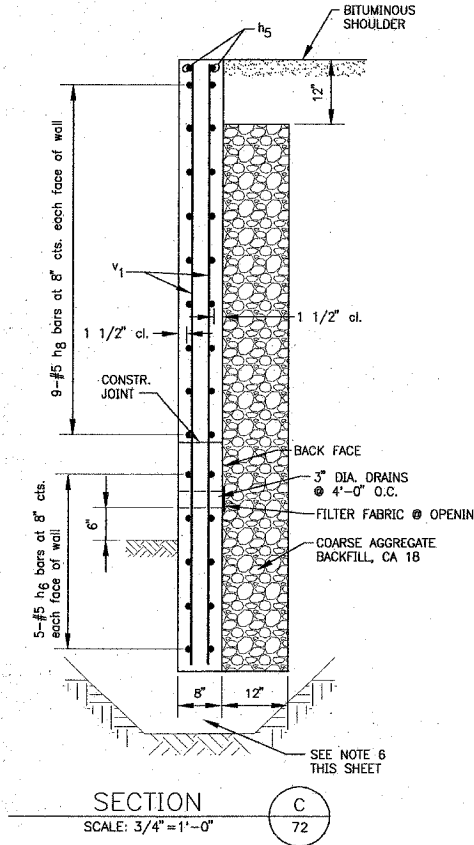
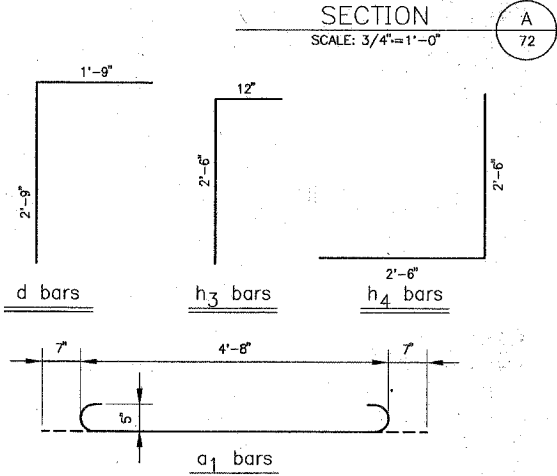
DESIGN STRESSES
 Fy = 60,000 psi
 fc = 3,500 psi
 LOADING = HS20-44 & ALT.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a1	28	#5	5'-10"	U
a2	5	#4	4'-8"	U
d	10	#4	4'-6"	U
hE	7	#5	2'-9"	U
hW	7	#5	3'-9"	U
h1,E	10	#4	2'-9"	U
h1,W	10	#4	3'-9"	U
h2,E	8	#5	2'-9"	U
h2,W	8	#5	3'-9"	U
h3	32	#5	3'-6"	U
h4	16	#5	5'-0"	U
h5	4	#6	16'-9"	U
h6	20	#5	16'-9"	U
h7	4	#6	4'-9"	U
h8	72	#5	5'-9"	U
h9	54	#4	2'-6"	U
v	22	#4	4'-9"	U
v1,E	24	#4	9'-0"	U
v1,W	24	#4	8'-8"	U
v2	10	#4	2'-9"	U
CONCRETE BOX CULVERTS				9.4 CY
REINFORCEMENT BARS				2,030 lbs.

NOTES:

- PERFORM WORK IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2002, SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2002 AND INTERIM SPECIAL PROVISIONS UPDATED MAY 9, 2002.
- ALLOWABLE NET SOIL BEARING PRESSURE = 2,000 P.S.F. MINIMUM.
- BARREL SHALL BE PLACED MONOLITHICALLY WITH THE WINGWALLS.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60.
- ALL CONSTRUCTION JOINTS SHALL BE BONDED.
- LETTERS E & W IN REINFORCEMENT BAR SCHEDULE DESIGNATE EAST & WEST SIDE EXTENSIONS RESPECTIVELY.
- UNDERCUT AREA BELOW BASE OF WALL 1'-0" EXTENDING OVEREXCAVATION 6" BEYOND PERIMETER OF THE WALL. BACKFILL EXCAVATED AREA WITH COMPACTED COARSE AGGREGATE BACKFILL, CA 18 TO THE REQUIRED SUBGRADE ELEVATION.
- UNDERCUT AREA BELOW CULVERT BARREL AS REQUIRED TO REMOVE BURIED TOPSOIL LAYER. BACKFILL EXCAVATED AREA WITH COMPACTED COARSE AGGREGATE BACKFILL, CA 18 TO THE REQUIRED SUBGRADE ELEVATION.



CHARLES A. BRUNER
 081-005609
 LICENSED
 STRUCTURAL
 ENGINEER
 OF
 ILLINOIS
 License Expires 11-30-2006

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN DRAWING.

CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

CULV-1-DWG DEK-27/APR/06 09:43

BAXTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.797.3111
 Crystal Lake, Illinois 815.459.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CULVERT EXTENSION
HEADWALL DETAIL

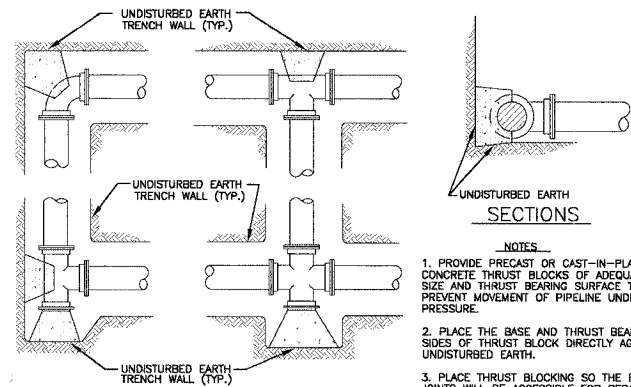
DESIGNED BY	SCALE
AS	AS NOTED
DRAWN BY	PROJECT NO.
SLE	020146
CHECKED BY	SHEET NO.
CAD	
DATE	
1-20-05	

83 OF 116

F.A.I. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	84
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				

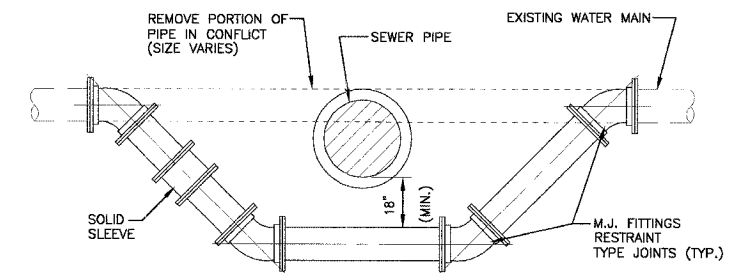
WATER MAIN GENERAL NOTES

1. WATER MAIN CONNECTION - (NON-PRESSURE).
 - A. COORDINATE WATER MAIN SHUT DOWN WITH THE OWNER. THE OWNER WILL OPEN AND CLOSE ALL EXISTING VALVES.
 - B. LOCATION OF EXISTING WATER MAIN IS APPROXIMATE ONLY AND CONTRACTOR MUST DETERMINE LOCATION IN THE FIELD. ADJUST CONNECTION LOCATION TO MEET EXISTING PIPE.
 - C. SUCCESSFULLY TEST AND DISINFECT WATER MAIN PRIOR TO MAKING WATER SERVICE CONNECTIONS.
2. CONTRACTOR IS REQUIRED TO MEET PRESSURE TESTING REQUIREMENTS FOR ALL NEW WATER MAINS REGARDLESS OF CONDITION OF EXISTING VALVES. PROVIDE TEMPORARY PLUGS AND BLOCKING AT CONNECTION POINTS IF NECESSARY TO MEET TESTING REQUIREMENTS AT NO ADDITION TO THE CONTRACT.
3. ALL ABANDONED MANHOLE FRAMES, WATER VALVE BOXES, FIRE HYDRANTS, ETC. ARE TO BE DELIVERED TO THE OAK FOREST PUBLIC WORKS DEPARTMENT.
4. EXISTING WATER SERVICE LOCATIONS, IF SHOWN, ARE APPROXIMATE ONLY. EXPLORATORY EXCAVATION IS REQUIRED TO DETERMINE EXACT LOCATION.
5. PROVIDE ALL FITTINGS AND ADAPTORS TO CONNECT NEW 2-INCH CURB STOP TO EXISTING 3/4-INCH OR 1-INCH SERVICE PIPE. PROVIDE NEW CURB STOPS, CORPORATION STOPS AND SERVICE BOXES WHERE NECESSARY. TYPICAL FOR ALL WATER SERVICE CONNECTIONS, UNLESS OTHERWISE NOTED.
6. ALL HYDRANT WORK SHALL BE COORDINATED WITH THE CITY PUBLIC WORKS DEPARTMENT AND THE CITY FIRE DEPARTMENT. CARE SHOULD BE TAKEN TO MINIMIZE THE SHUTDOWN PERIODS FOR MAINTENANCE OF FIRE PROTECTION CAPABILITY.



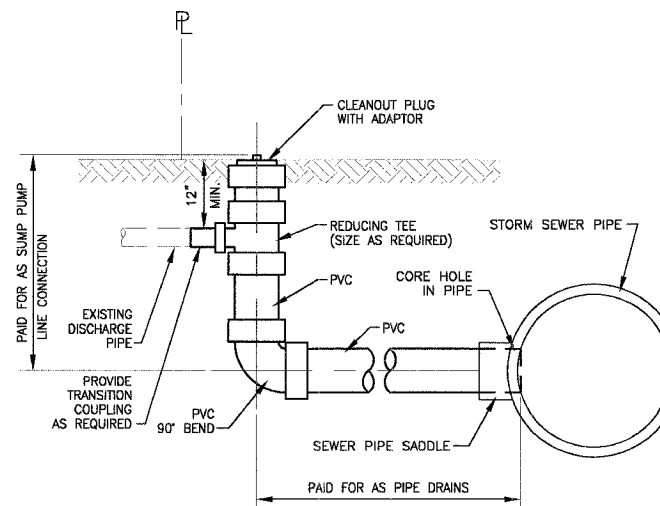
TYPICAL THRUST BLOCK INSTALLATIONS
NO SCALE

- NOTES**
1. PROVIDE PRECAST OR CAST-IN-PLACE CONCRETE THRUST BLOCKS OF ADEQUATE SIZE AND THRUST BEARING SURFACE TO PREVENT MOVEMENT OF PIPELINE UNDER PRESSURE.
 2. PLACE THE BASE AND THRUST BEARING SIDES OF THRUST BLOCK DIRECTLY AGAINST UNDISTURBED EARTH.
 3. PLACE THRUST BLOCKING SO THE FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIR.
 4. USE OF CONCRETE THRUST BLOCK IN LIEU OF RESTRAINED TYPE PIPE JOINTS REQUIRES WRITTEN APPROVAL BY THE VILLAGE OF CARY.

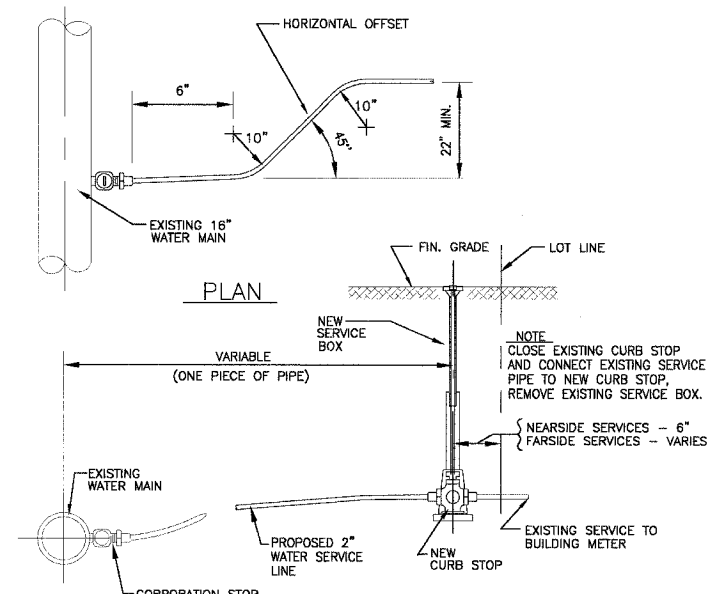


- NOTES:**
1. WATER MAIN RELOCATIONS ARE SUBJECT TO INSPECTION AT NORMAL SYSTEM PRESSURE BEFORE BURIAL.
 2. USE ONLY 45 DEGREE BENDS UNLESS OTHERWISE PERMITTED BY THE ENGINEER.

WATER MAIN RELOCATION - DUCTILE IRON
NO SCALE

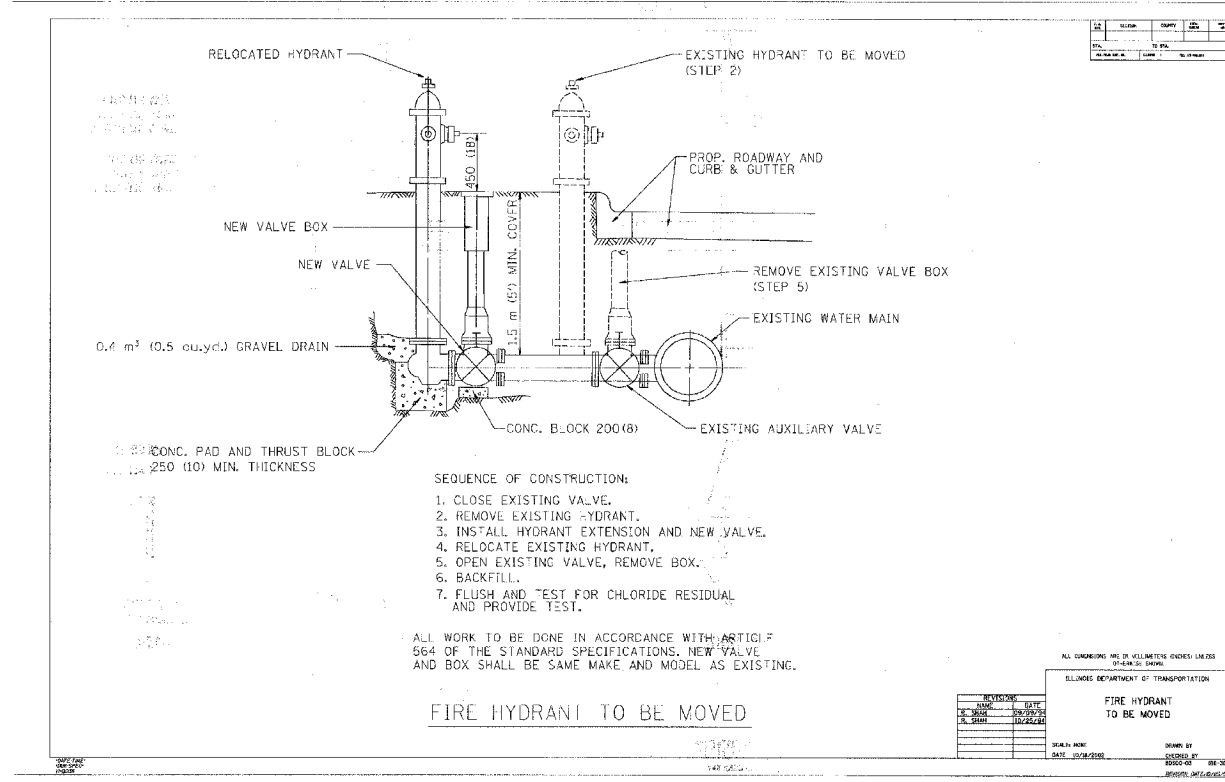


SUMP PUMP LINE CONNECTION
NO SCALE



SERVICE PIPE	CORP. STOP	CURB STOP	SERVICE BOX
2"	2"	2"	1 1/2"

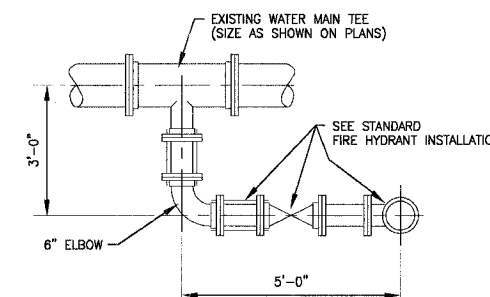
EXISTING WATER SERVICE RECONNECTION DETAIL
NO SCALE



- SEQUENCE OF CONSTRUCTION:**
1. CLOSE EXISTING VALVE.
 2. REMOVE EXISTING HYDRANT.
 3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
 4. RELOCATE EXISTING HYDRANT.
 5. OPEN EXISTING VALVE, REMOVE BOX.
 6. BACKFILL.
 7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED



FIRE HYDRANT - 90° CONNECTION
(FOR WATER MAIN SIZES GREATER THAN 12")
NO SCALE

I:\04041\201146\Drawings\201146-MISC-DETS.dwg
 Plotted: 4-29-05 @ 8:19pm By: 231ukb
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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

WOODMAN
Consulting Engineers

Baxter & Woodman
Crystal Lake, Illinois 815.458.1260
Burlington, Wisconsin 262.763.7834
Mokena, Illinois 708.478.5000
DeKalb, Illinois 815.787.9111
Garyville, Illinois 815.233.3088
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.609.7425

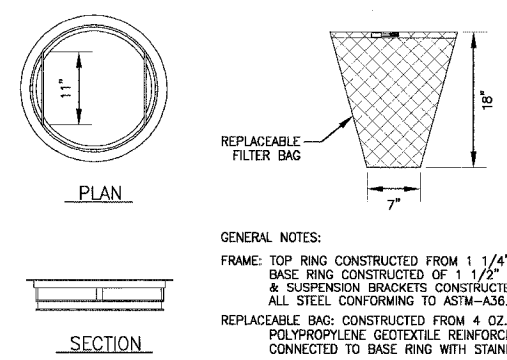
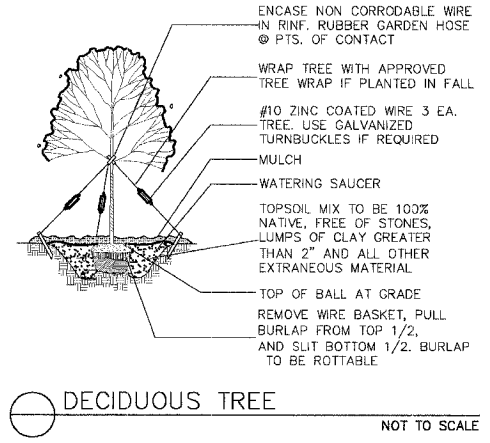
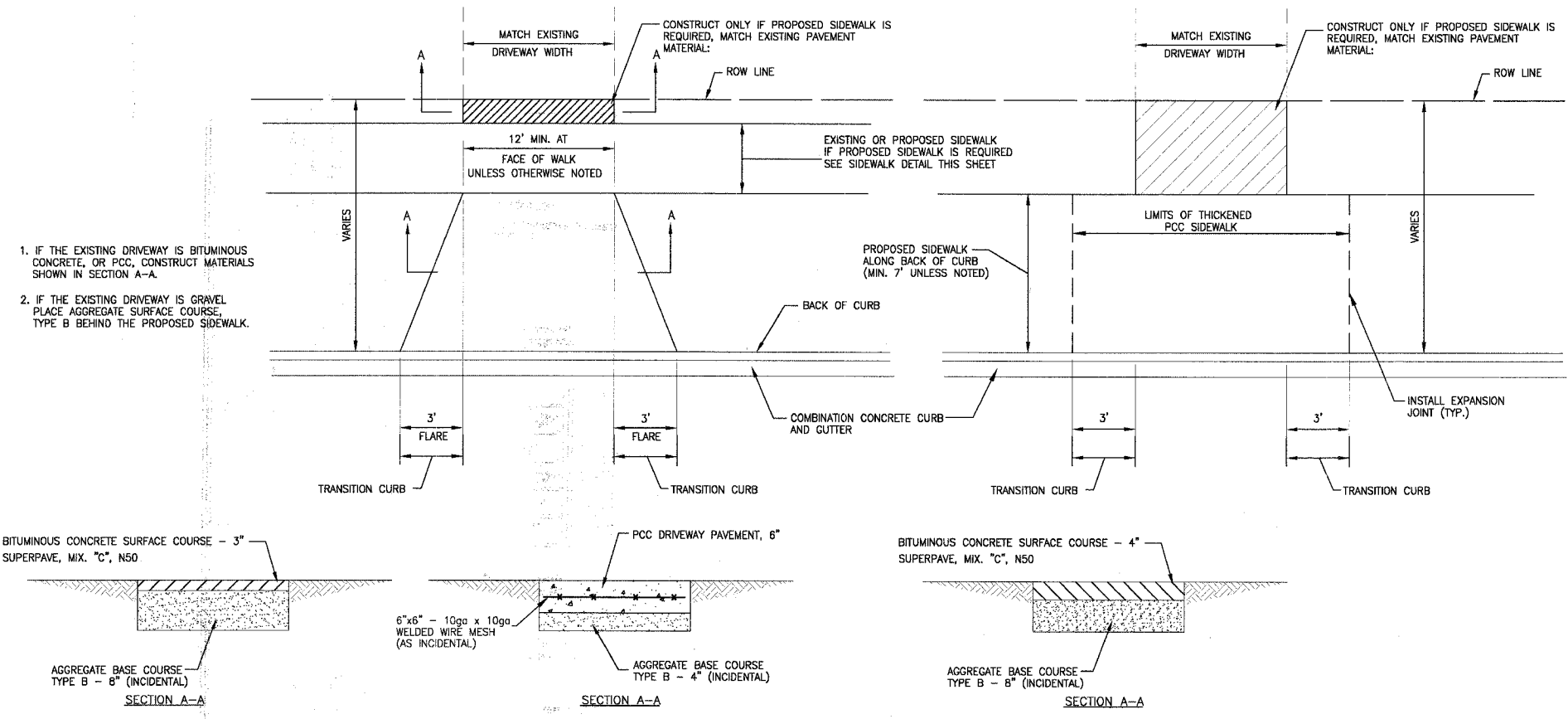
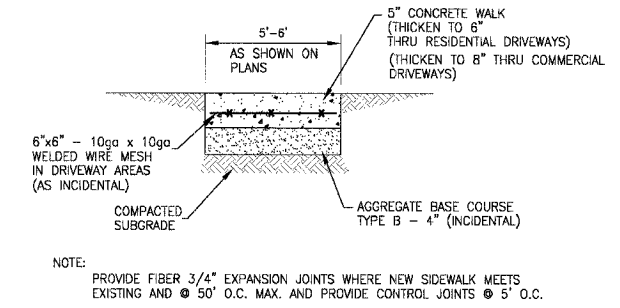
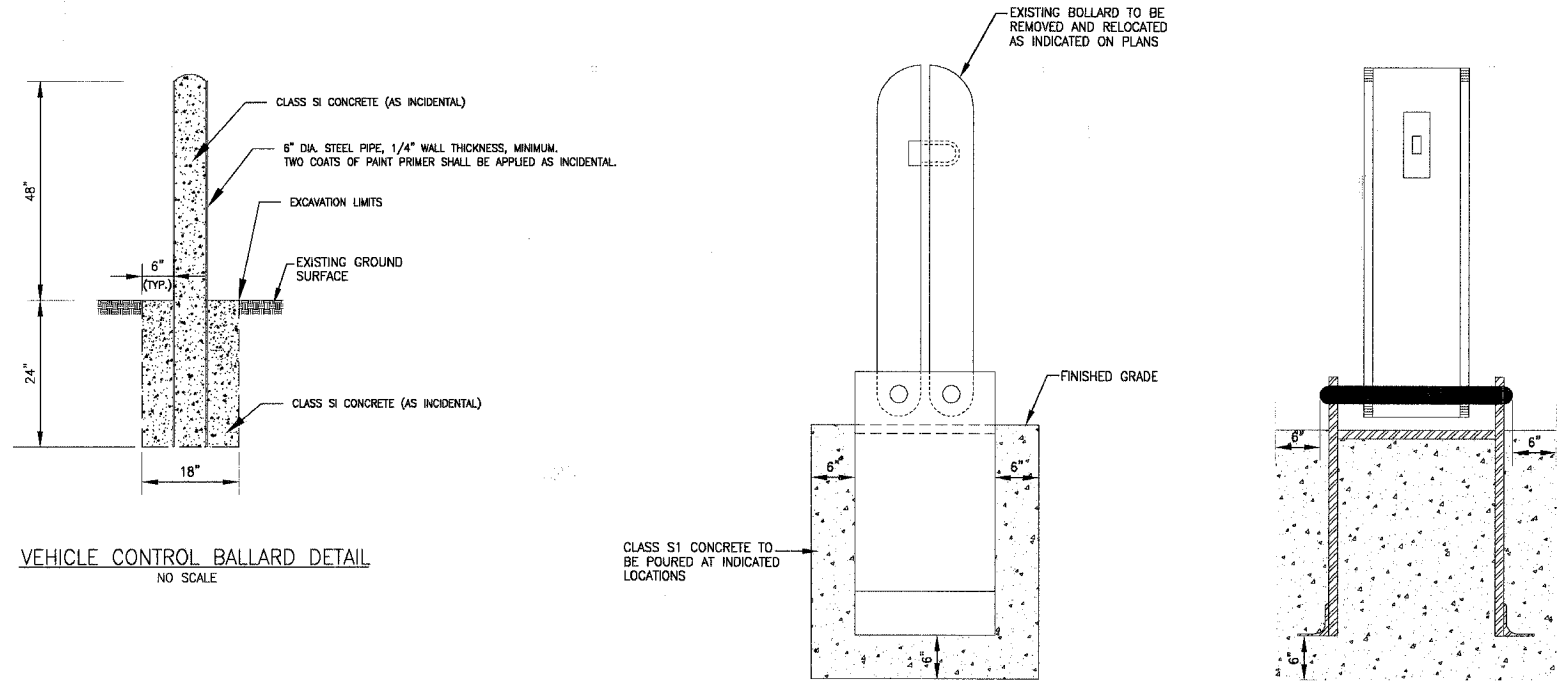
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

MISCELLANEOUS DETAILS

DESIGNED BY: NJP
 DRAWN BY: UKB
 CHECKED BY: NJP
 DATE: 1-20-05

SCALE: NONE
 PROJECT NO.: 020146
 SHEET NO.: 84 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	85
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



P:\DRAFT\020146\Draws\20146-MISC-DETS.dwg
 Plotted: 4/29/06 @ 2:36pm By: jslukb
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 License No. 184-00-127 Expires 4-30-05

CONTRACT NO.	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAKTER & WOODMAN
Consulting Engineers

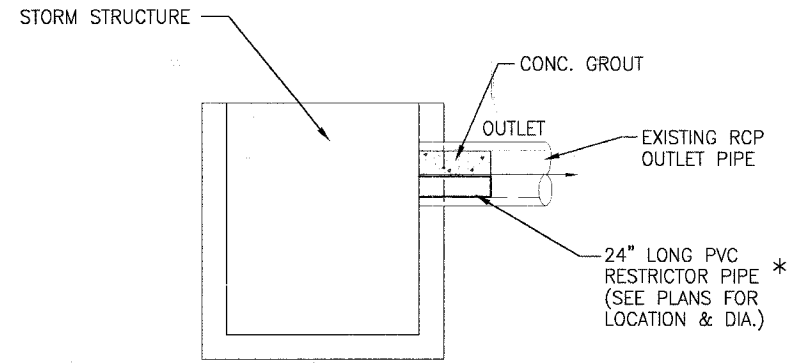
Baxter & Woodman
Crystal Lake, Illinois 815.489.1200
Burlington, Wisconsin 920.763.7834
Mukwonago, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Graylake, Illinois 815.223.5088
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

MISCELLANEOUS DETAILS

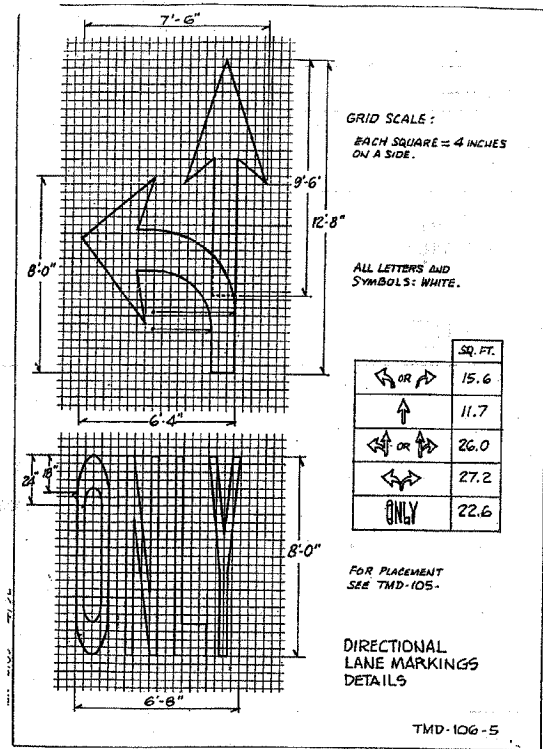
DESIGNED BY	SCALE
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DRAWN BY	PROJECT NO.
UKB	020146
CHECKED BY	SHEET NO.
NJP	85 OF 116
DATE	
1-20-05	

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	85A
STA.	TO STA.		ILLINOIS	
FED. ROAD DIST. NO. 1			FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



RESTRICTOR DETAIL

NO SCALE
 * FURNISHING AND INSTALLING RESTRICTOR AND GROUT SHALL BE INCIDENTAL TO OUTLET PIPE.



GRID SCALE:
 EACH SQUARE = 4 INCHES ON A SIDE.

ALL LETTERS AND SYMBOLS: WHITE.

SYMBOL	SQ. FT.
↔ OR ↔	15.6
↑	11.7
↔ OR ↔	26.0
↔ OR ↔	27.2
ONLY	22.6

FOR PLACEMENT SEE TMD-105.

DIRECTIONAL LANE MARKINGS DETAILS

TMD-106-5

COOK COUNTY HIGHWAY STANDARD

I:\OAKFET\020146\DWG\20146_MISC-DETS.dwg
 Date: 5-01-06 @ 9:43am By: J.Muh
 Project: ©2004 By Baxter & Woodman, Inc.
 Job: 020146 - Professional Design Firm
 License No.: 184-001121 - Expires 4-30-05

CONTRACT NO.	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

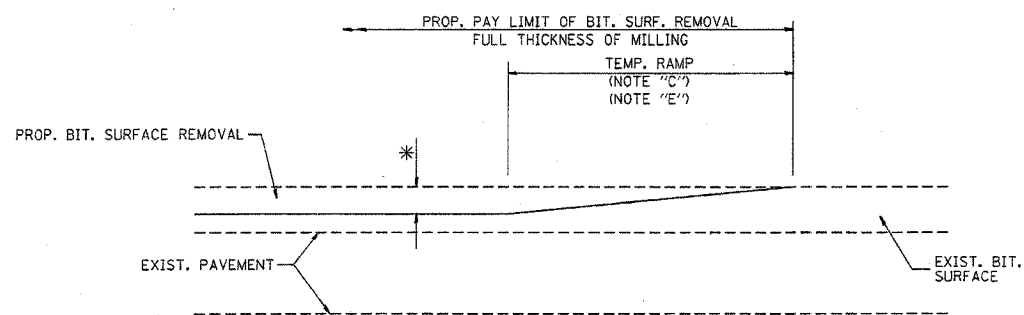
Baxter & Woodman
 Crystal Lake, Illinois 815.469.1365
 Burlington, Wisconsin 262.763.9094
 Mokena, Illinois 708.478.5050
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 847.223.5088
 Rockford, Illinois 815.469.1051
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

MISCELLANEOUS DETAILS

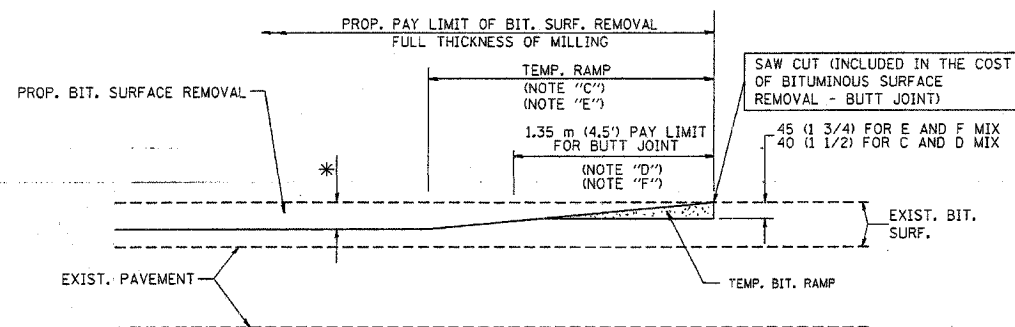
DESIGNED BY NJP	SCALE NONE
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	85A OF 116

P.A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	86
STA.		TO STA.		
FED. ROAD DIST. NO.		BLDG.	FED. AID PROJECT	
CONTRACT NO.: 83727		CMM-7003 (750)		



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

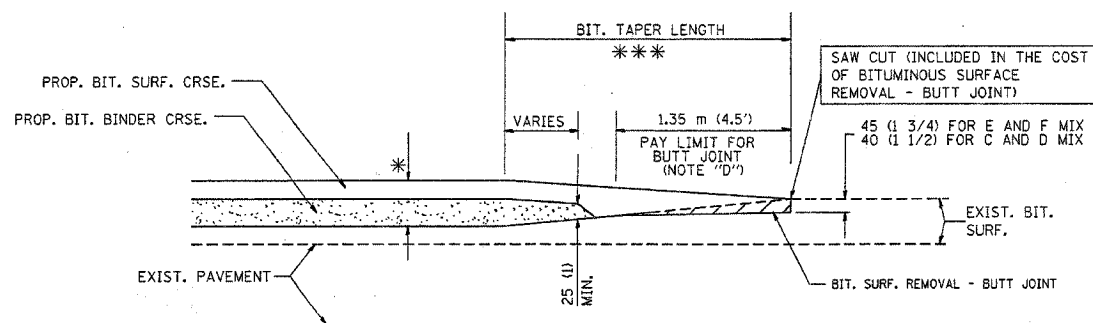
OPTION 1



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

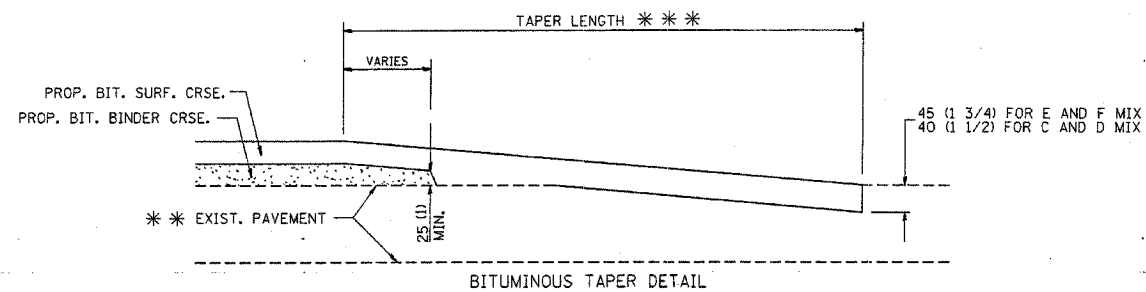
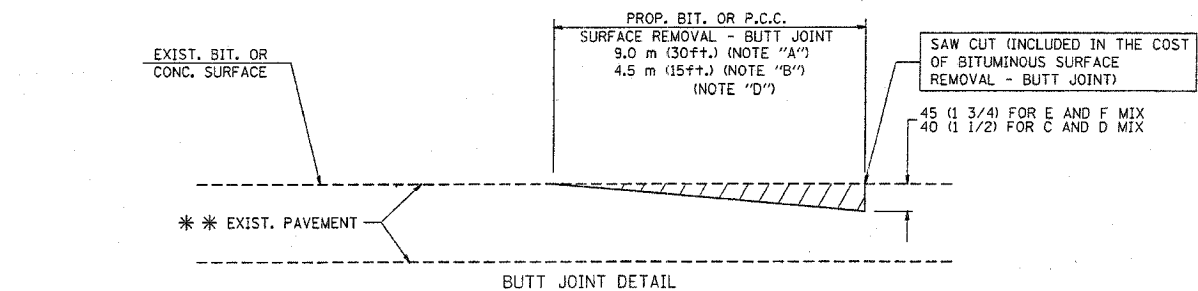
OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT AND BITUMINOUS TAPER

TYPICAL BUTT JOINT AND BITUMINOUS TAPER
FOR MILLING AND RESURFACING



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 COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 900 (3 ft.) PER INCH OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 1.35 m (4.5') 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 DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND BITUMINOUS TAPER DETAILS

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".

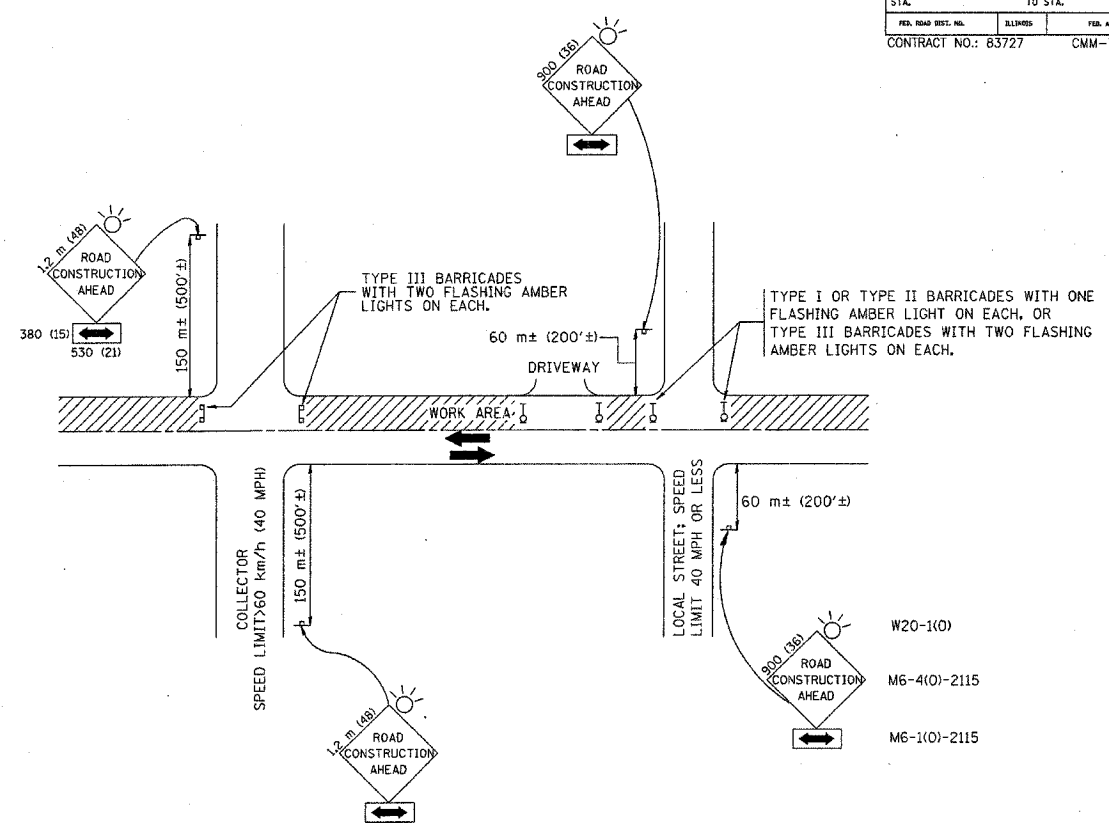
REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01

SCALE: NONE
DATE PLOTTED: 3/25/02

DRAWN BY
CHECKED BY

B0400-05 (VI-B032)

F. & L. REL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	87
STA.	TO STA.			
FED. ROAD DIST. NO.	BLINDS	FED. AID PROJECT		
CONTRACT NO.: 83727		CMM-7003 (750)		



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS:
- 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:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
 - 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.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
 - 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.

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

REVISIONS	
NAME	DATE
LHA	6/789
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

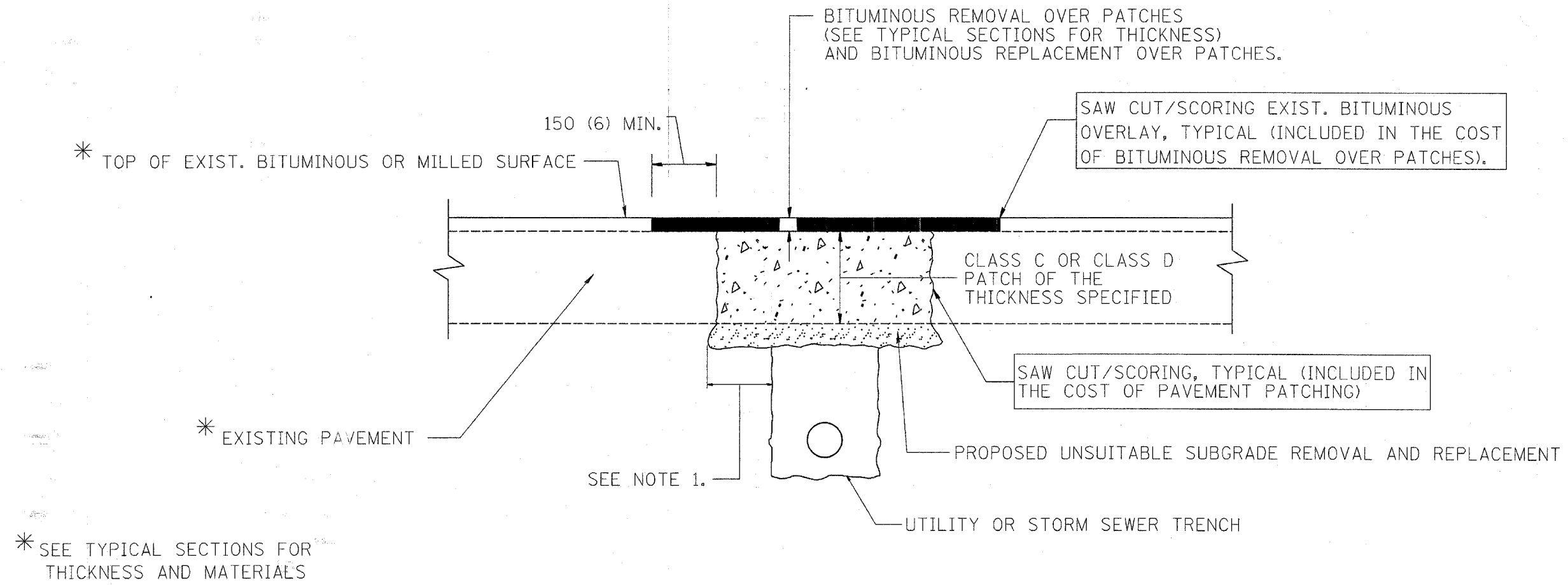
SCALE: NONE
DATE: 3/25/02
DRAWN BY
CHECKED BY

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Mon Mar 25 10:06:59 2002
\\dload1\projects\distatd\td10.dgn LV=35
V1=TC10

w:\ork\english\td10.prk: 10:02:21 03/25/2002

P.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
P.R. ROAD DIST. NO.	ADDRESS	P.R. ROAD PROJECT		
CONTRACT NO.: 83727		CMM-7003 (750)		



NOTES:

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

SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING BITUMINOUS MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE BITUMINOUS MATERIAL OVER THE AREA TO BE PATCHED.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT

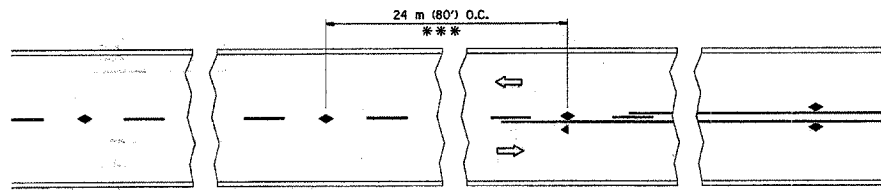
REVISIONS		REVISIONS	
NAME	DATE	NAME	DATE
R. SHAH	10/25/94	ART ABBAS	04/27/98
R. SHAH	01/14/95		
R. SHAH	03/23/95		
R. SHAH	04/24/95		
A. HOUSEH	03/15/96		
A. ABBAS	03/21/97		
A. ABBAS	01/20/98		

SCALE: NONE
DATE: 07/09/2002
DRAWN BY:
CHECKED BY:

BD400-04 (BD-22)

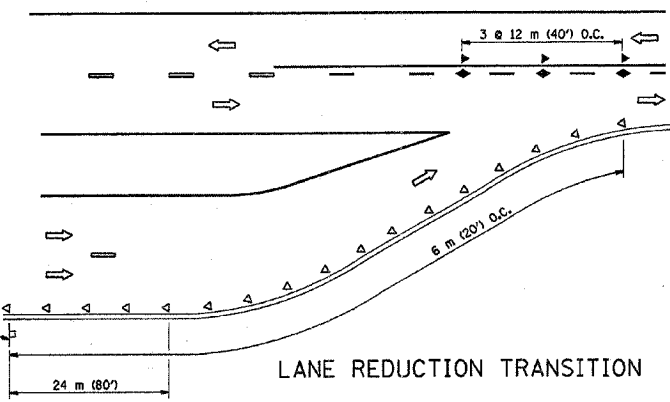
VI-8022
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07/09/2002

P.L. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	89
STA.	TO STA.			
FED. ROAD DIST. NO.	SLAB NO.	FED. AID PROJECT		
CONTRACT NO.: 83727		CMM-7003 (750)		

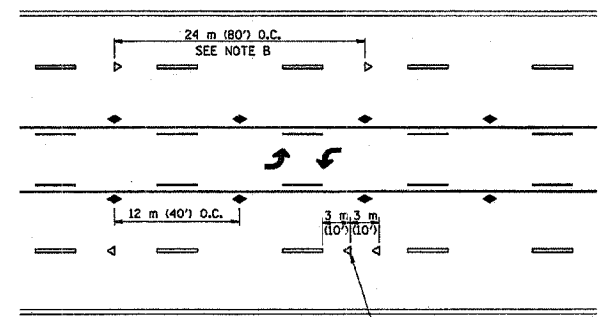


*** REDUCE TO 12 m (40') O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 70 km/h (45 M.P.H.) OR LESS.

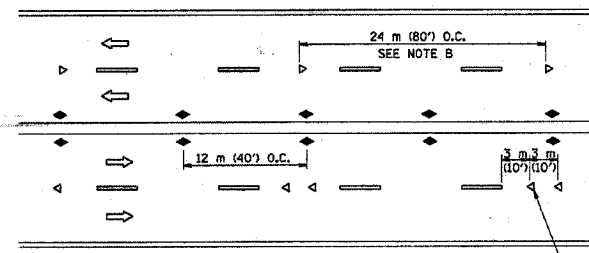
TWO-LANE/TWO-WAY



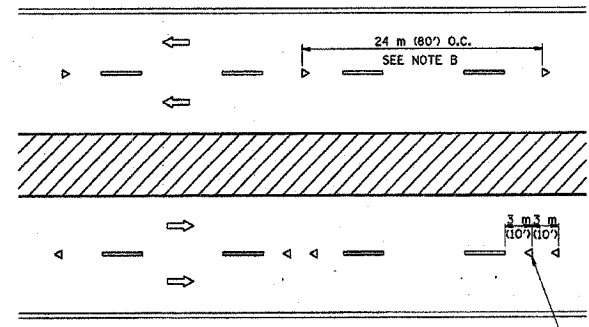
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

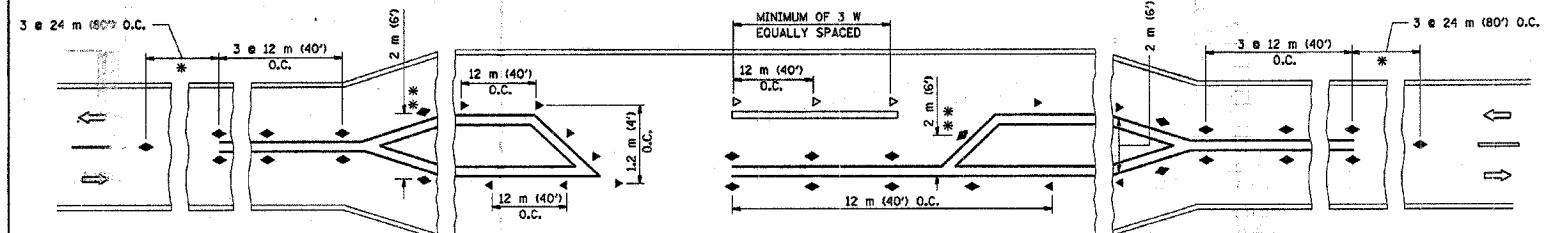
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

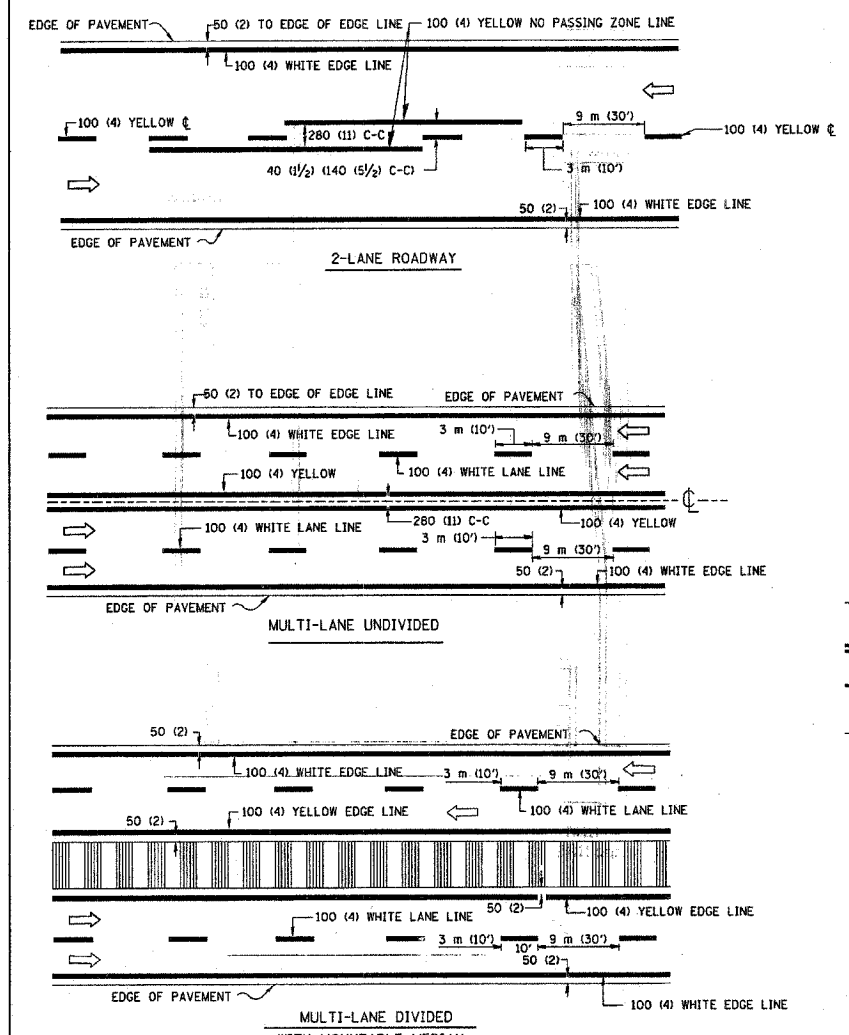
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS
 (SNOW-PLOW RESISTANT)

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

SCALE: NONE
 DATE: 12/04/2002
 DRAWN BY CADD
 CHECKED BY

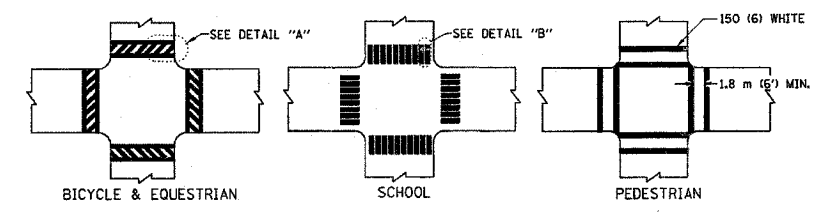
TC-11
 REVISION DATE: 01/06/00

S. A. N. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
277499-00073-00-WR	COOK	116	90	
STA.	TO STA.			
FILE NO. OR PROJ. NO.	BLK. NO.	FILE NO. PROJECT		
CONTRACT NO.: 83727		CMM-7003 (750)		

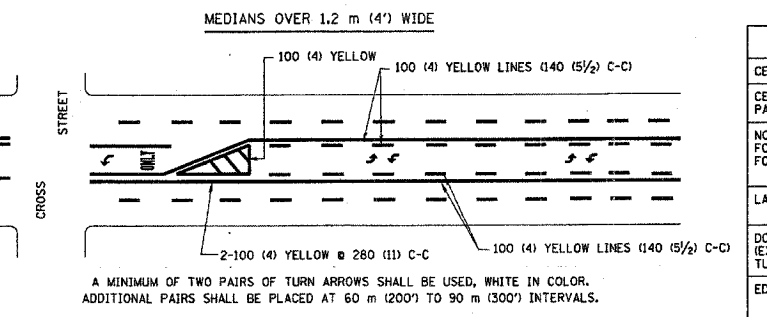
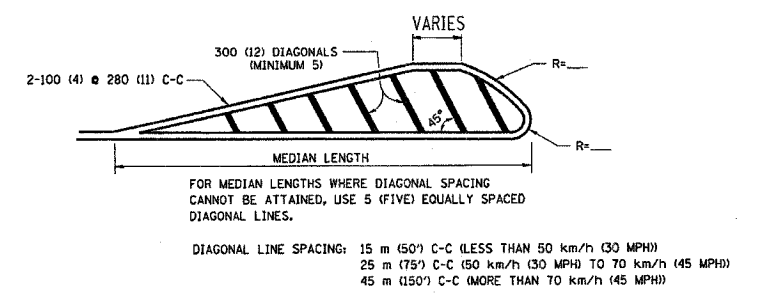
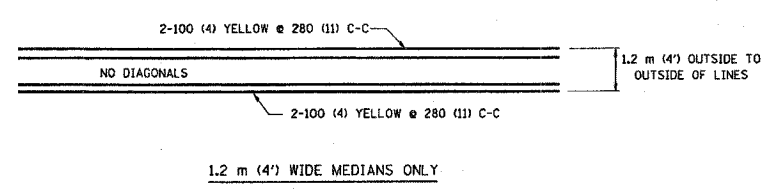


NOTE: MEDIANS WITH BARRIER CURBS DO NOT REQUIRE AN EDGE LINE

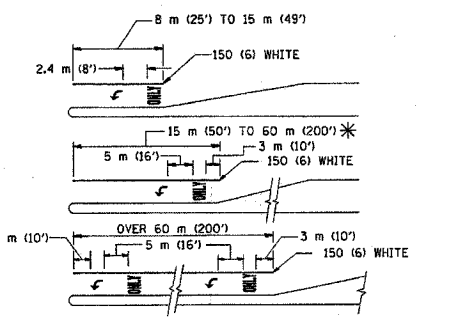
TYPICAL LANE AND EDGE LINE MARKING



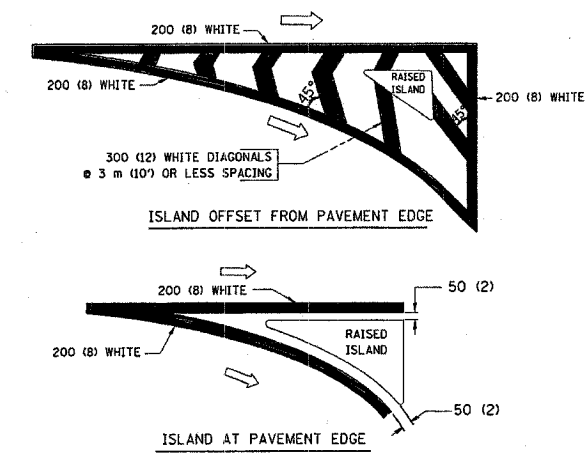
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL LEFT (OR RIGHT) TURN LANE MARKING



TYPICAL ISLAND 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	100 (4)	SOLID	YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4)	SKIP-DASH	WHITE	3 m (10') LINE WITH 9 m (30') SPACE
LANE LINES	125 (5)	SKIP-DASH	WHITE	ON FREEWAYS
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	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) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	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
TWO WAY LEFT TURN MARKING	2.4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL))	2 @ 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, PARALLEL TO CROSSWALK CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE 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 (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/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"=0.33m ² (3.6 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 (30 MPH)) 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 (45 MPH))

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.

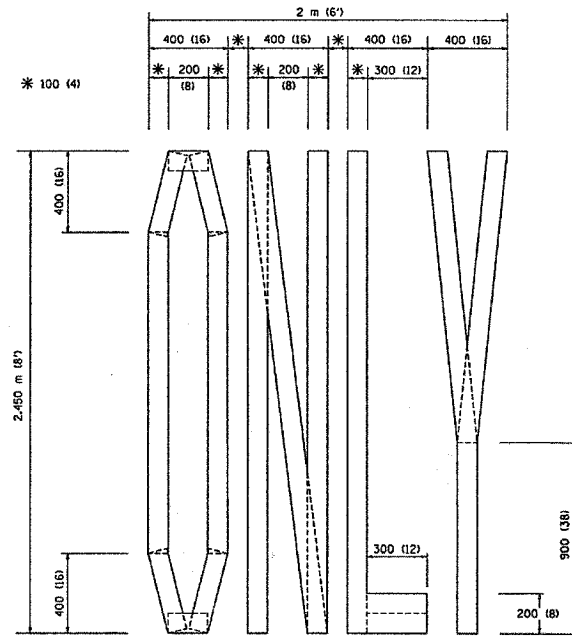
ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

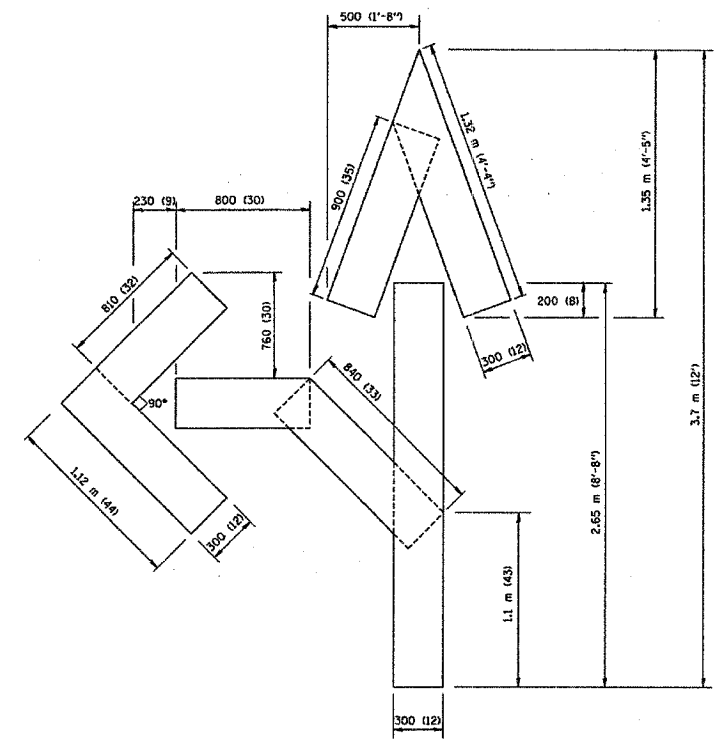
REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

SCALE: NONE
DATE 3/25/02
DRAWN BY CADD
CHECKED BY

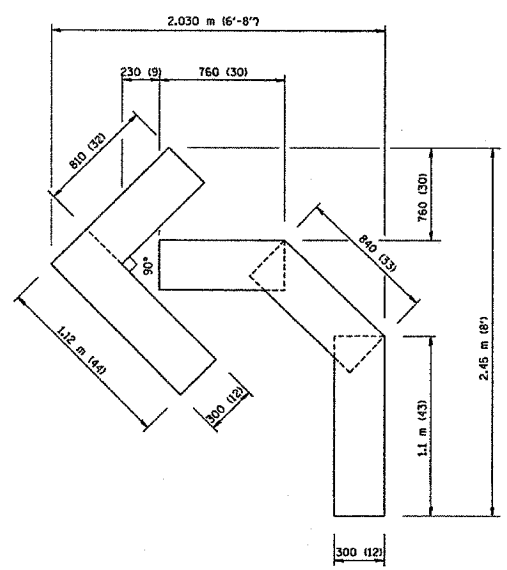
P.A.L. NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
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STA.	TO STA.			
FED. ROAD DIST. NO.	BLDG.	FED. RD PROJECT		
CONTRACT NO.: 83727		CMM-7003 (750)		



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



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



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

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

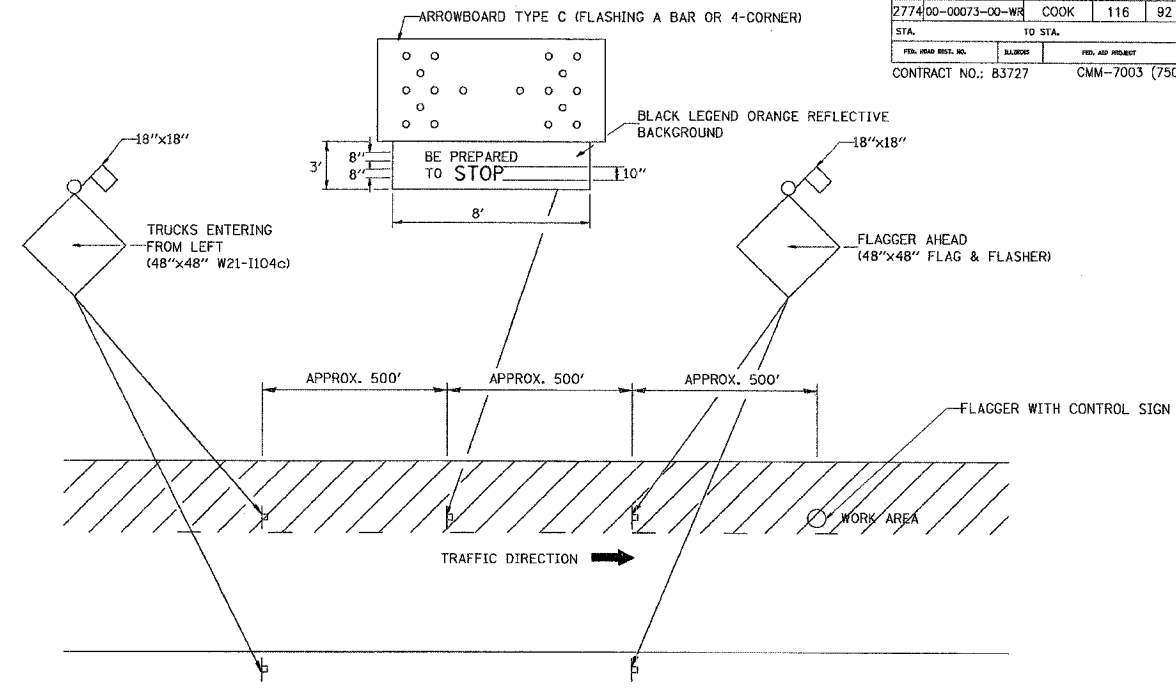
ILLINOIS DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING	
SCALE: NONE	DRAWN BY CADD
DATE 10/18/2002	CHECKED BY
	TC-16
	REVISION DATE: 08/28/00

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

Friday, October 18, 2002 10:02:21 AM
 C:\Program Files\Autodesk\AutoCAD 2002\Projects\Jctns\PAVEMENT\PAV.DWG LV+35,63
 VHTC

Copyright © 2001, The Bentley Systems, Incorporated
 Bentley Systems, Incorporated
 700 North Zeeb Road
 Exton, PA 19341-4100

F.A.U. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
277400-00073-00-WR		COOK	116	92
STA.	TO STA.			
FED. ROAD DIST. NO.	ALIGNED	FED. AID PROJECT		
CONTRACT NO.: B3727		CMM-7003 (750)		



METHOD OF FLAGGING

NOTE:

1. SIGNS SHALL BE MOUNTED AT A MINIMUM CLEARANCE HEIGHT OF 5 FEET
2. ALL SIGNS SHALL BE REMOVED WHEN THE FLAGGING OPERATION CEASES.
3. THIS CASE ALSO APPLIES WHEN THE WORK ZONE IS ON THE RIGHT. UNDER THESE CONDITIONS "TRUCKS ENTERING FROM RIGHT" SIGNS SHALL BE SUBSTITUTED FOR "TRUCKS ENTERING FROM LEFT" SIGNS. ALSO THE ARROWBOARD AND "BE PREPARED TO STOP" SIGNS SHALL BE RELOCATED TO THE RIGHT SIDE OF THE ROAD.
4. WORK ZONE ACCESS POINTS SHOULD BE A MINIMUM OF ONE HALF MILE APART. MEDIAN WORK ZONE ACCESS POINTS SHOULD NOT BE LOCATED OPPOSITE OF EACH OTHER.
5. NIGHTTIME FLAGGING OPERATIONS: THE FLAG STATION SHALL BE LIGHTED WITH ADDITIONAL LIGHTS OTHER THAN STREET LIGHTS. THE FLAGGER CONTROL SIGN AND THE FLAGGER'S VEST SHALL BE REFLECTORIZED. IN ADDITION, THE FLAGGER SHALL HAVE A FLASHLIGHT OR LIGHTED WAND.

REVISIONS	
NAME	DATE
RAY RITCHIE	5/10/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

METHOD OF FLAGGING

SCALE: NOT TO SCALE

DATE 10/18/2002

DRAWN BY C.A.D.

CHECKED BY

BM-14

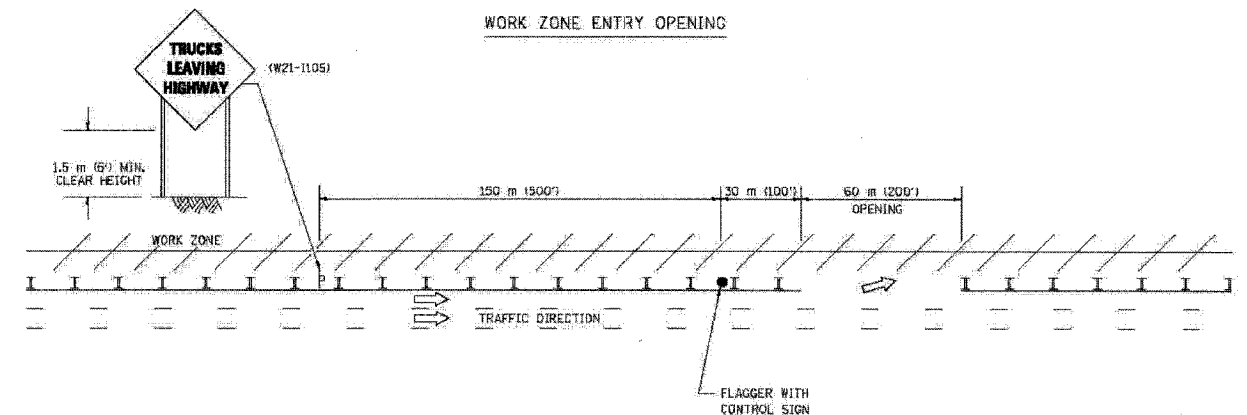
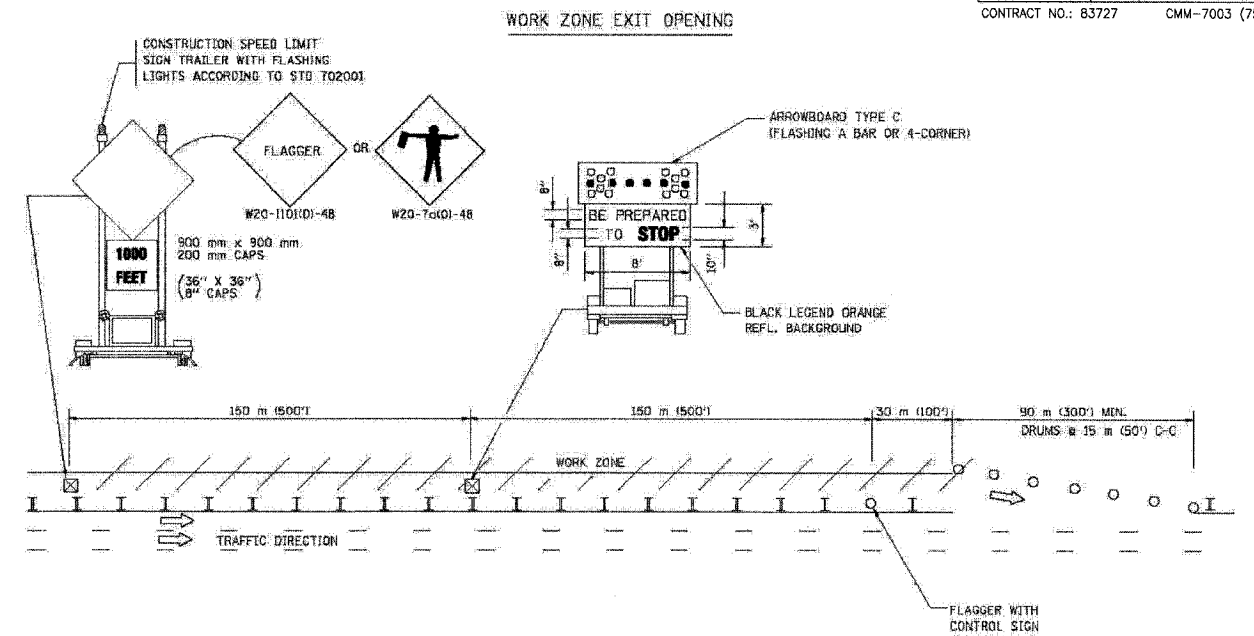
REVISION DATE: 05/10/00

DATE/TIME
CON/SPEC
VI-BM14

CONSULT: R. ZONE, BY: BACHTER & WINDENSON, INC.
 NUMBER: 01-94-001231 - IMPROV. #12/2005

F.A. DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774 00-00073-00-WR		COOK	116	93
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.: 63727	CMM-7003 (750)			

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS	
NAME	DATE
DWS	6/98
JAF	4/03

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE
DATE: 05/06/2003

DRAWN BY: CADD
CHECKED BY: TC-18

REVISION DATE: 04/24/03

05/16/2003
c:\p0\sc\plans\dist\dwg
VHCB

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	00-0073-00-WR	COOK	116	93A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.: 83727	CMM-7003 (750)			

ROUTE MARKERS

FOR U.S. ROUTES MI-40-2424

FOR ILLINOIS ROUTES MI-50-2424

R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1L-2115

M6-1R-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

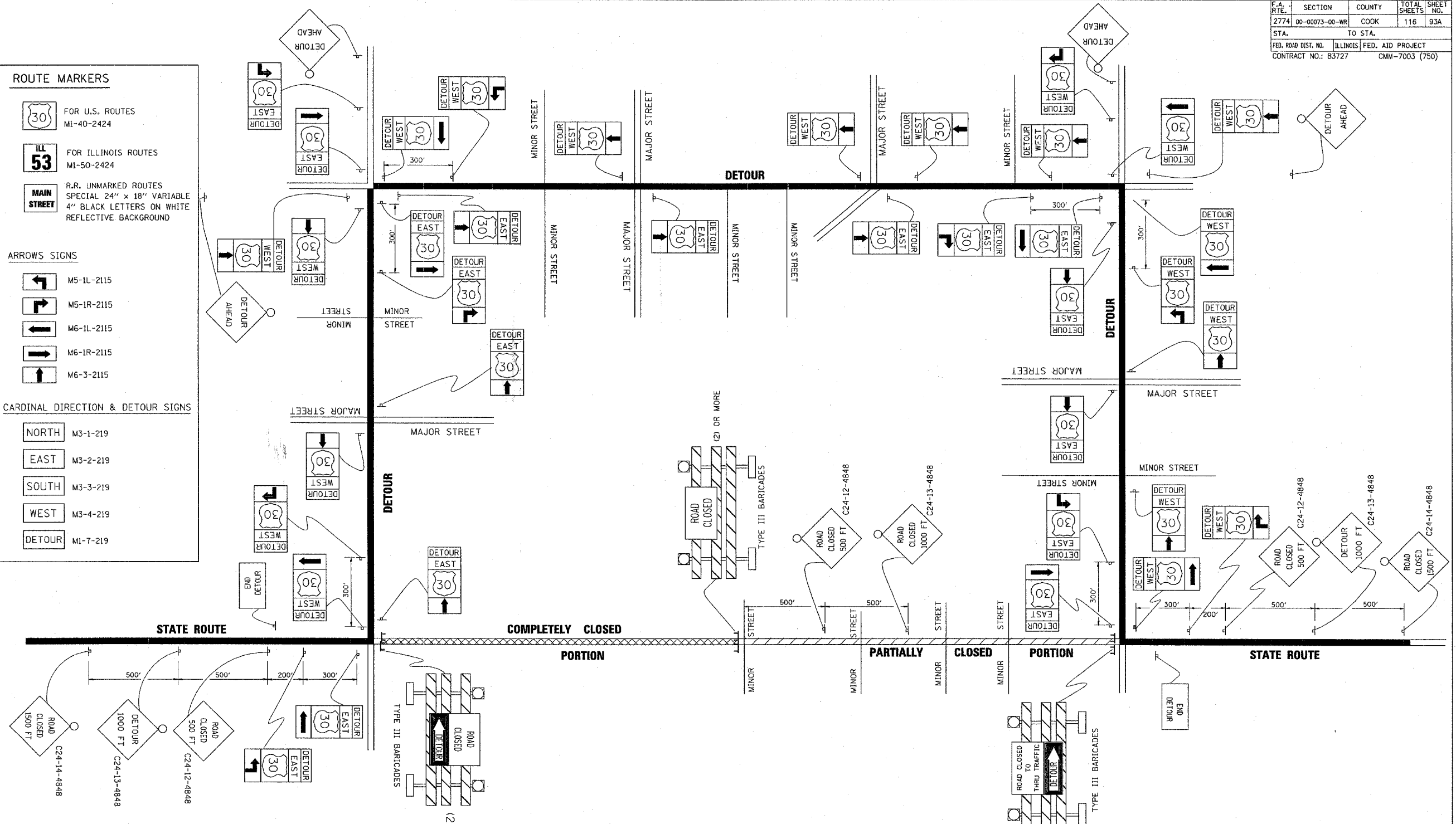
NORTH M3-1-219

EAST M3-2-219

SOUTH M3-3-219

WEST M3-4-219

DETOUR MI-7-219



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL MARKING FOR CLOSING STATE HIGHWAYS

SCALE: NONE DRAWN BY

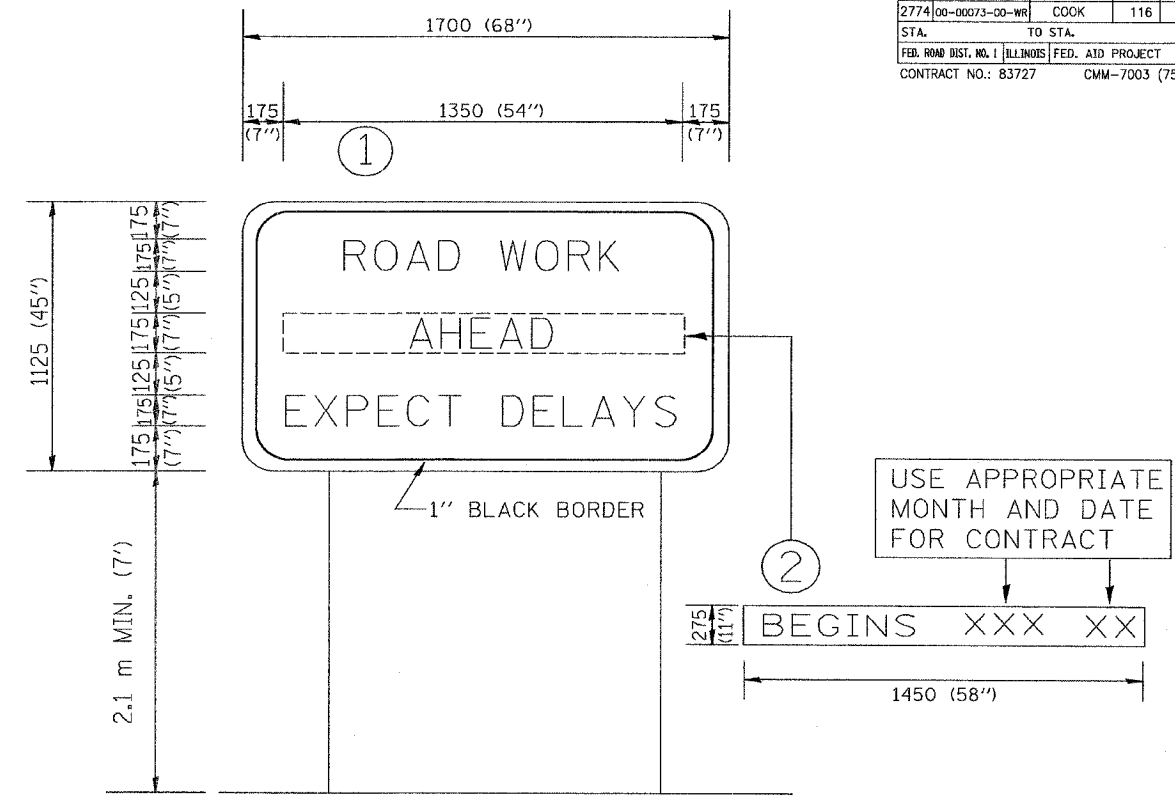
DATE: **DATE** CHECKED BY

DATE-TIME
DCN-SPEC

TC-21

NOT TO SCALE
 DRAWN BY: J. B. BAKER & ASSOCIATES, INC.
 1000 N. WILSON AVENUE, SUITE 100
 DEERFIELD, ILL. 60015-1000
 PHONE: (708) 421-1100
 FAX: (708) 421-1101
 WWW: WWW.JBBANDASSOCIATES.COM

F.A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	00-0073-00-WR	COOK	116	94
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO.: 83727		CMM-7003 (750)		



NOTES:

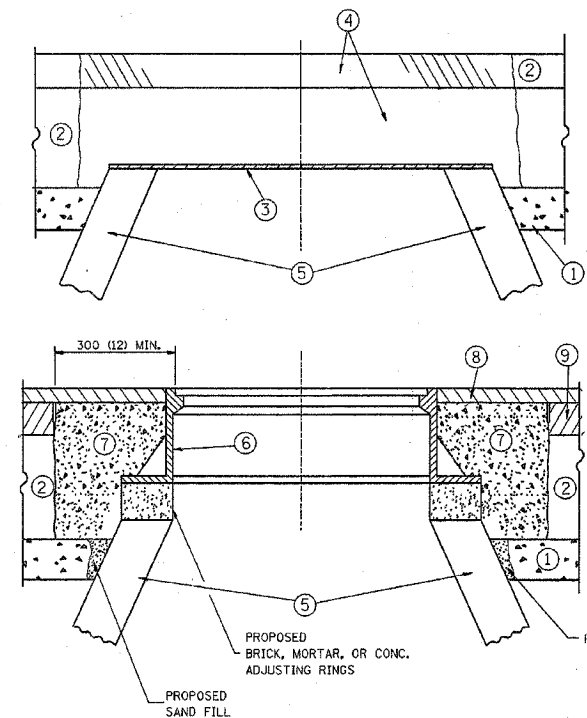
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
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:
 TC22
 REVISION DATE: 02/02/99

P.A.L. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	95
STA.	TO STA.			
FED. ROAD DIST. NO.	ALTERN.	FED. AID PROJECT		
CONTRACT NO.: 83727		CMM-7003 (750)		



- CONSTRUCTION PROCEDURES**
- STAGE 1 (BEFORE PAVEMENT MILLING)**
- A) REMOVE A MINIMUM OF 300 (12) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
 - B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
 - C) COVER THE STRUCTURE OPENING WITH A 900 (36) DIAMETER METAL PLATE.
 - D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 40 (1 1/2) THICK BITUMINOUS MATERIAL APPROVED BY THE ENGINEER.
- STAGE 2 (AFTER PAVEMENT MILLING)**
- A) REMOVE THE BITUMINOUS MATERIAL 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 S1 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.

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.

- LEGEND**
- ① SUB-BASE GRANULAR MATERIAL
 - ② EXISTING PAVEMENT
 - ③ 900 (36) DIAMETER METAL PLATE
 - ④ PROPOSED CRUSHED STONE AND BITUMINOUS MATERIAL
 - ⑤ EXISTING STRUCTURE
 - ⑥ FRAME AND LID (SEE NOTES)
 - ⑦ CLASS S1 CONCRETE, BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL
 - ⑧ PROPOSED BITUMINOUS CONCRETE SURFACE COURSE
 - ⑨ PROPOSED BITUMINOUS CONCRETE BINDER COURSE

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT: 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

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) 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

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE

DATE: 12/04/2002

DRAWN BY

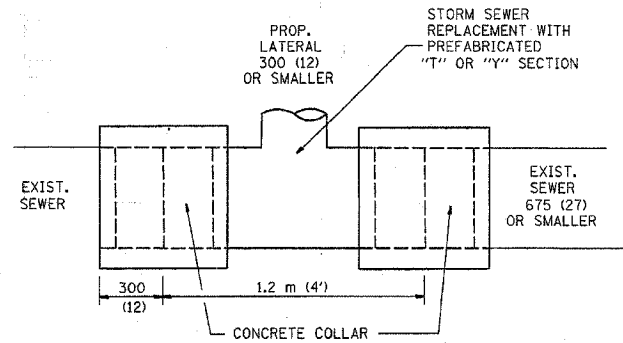
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BD600-03 (BD-8)

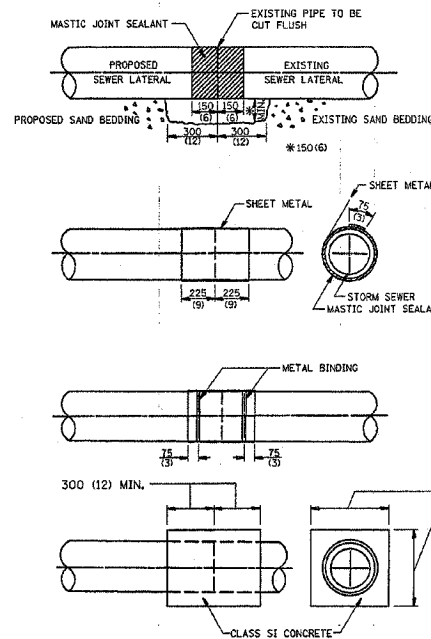
REVISION DATE: 03/21/98

12/04/2002
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VH-BDB

F. A. I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	89-00073-00-WR	COOK	118	96
STA.	TO STA.			
FED. ROAD DIST. NO.	BLINDS	FED. AID PROJECT		
CONTRACT NO.: 83727		CMM-7003 (750)		



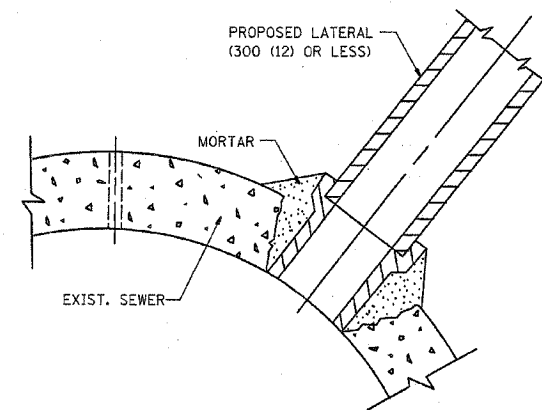
DETAIL "A"
LATERAL CONNECTION TO EXISTING SEWER
OF 675 (27) OR SMALLER



DETAIL "B"
CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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



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

NOTES

MATERIAL

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

CONSTRUCTION METHODS

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

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

GENERAL

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

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

BASIS OF PAYMENT

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

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

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

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

**DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER**

REVISIONS	
NAME	DATE
M. DE YONG	07/25/90
M. DE YONG	02/05/92
M. DE YONG	05/08/92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	06/12/96

SCALE: NONE
DATE: 12/04/2002

DRAWN BY CADD
CHECKED BY

BD500-01 (BD-7)
REVISION DATE: 06/12/96

12/04/2002
w:\d1st\d007.dgn
VI-BD7

P.A.U. NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
2774(00-00073-00-WR)	COOK	116	97	
STA.	TO STA.		CONTRACT NO.: 83727	
FED. ROAD DIST. NO.	BLDG. NO.	FED. AID PROJECT NO. CMM-7003 (750)		

GENERAL NOTES

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAIL HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE(3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN(10') OR LESS.

IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

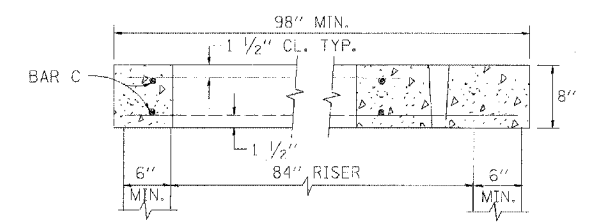
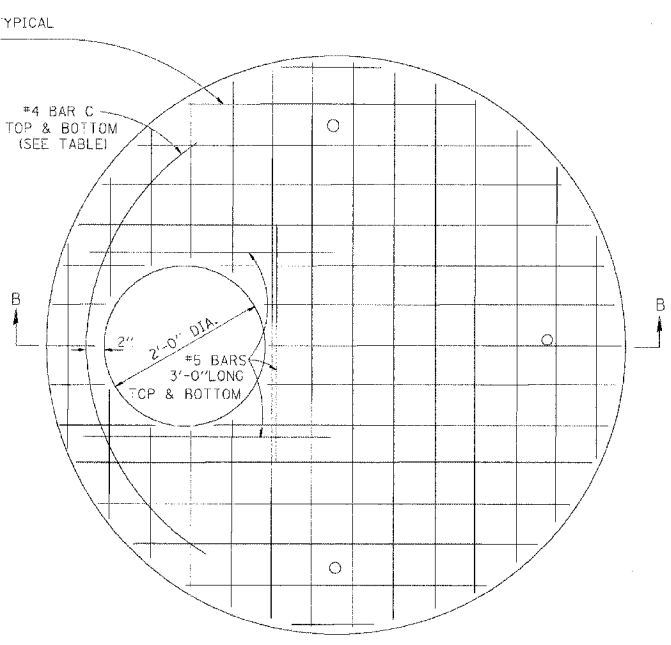
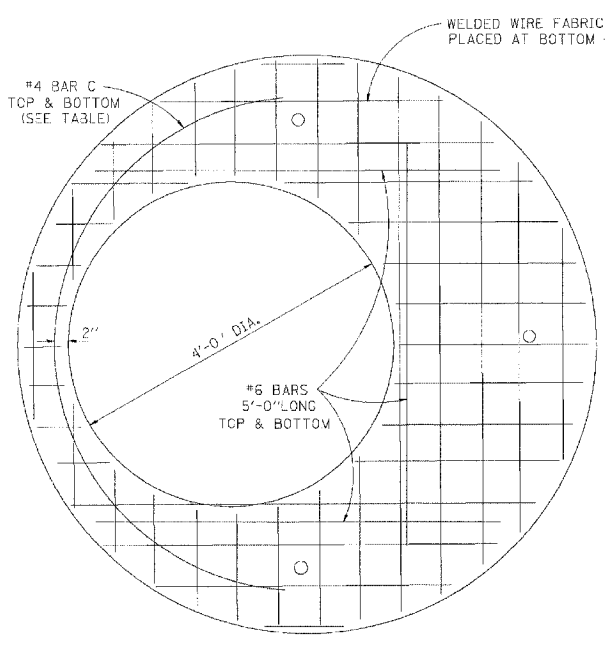
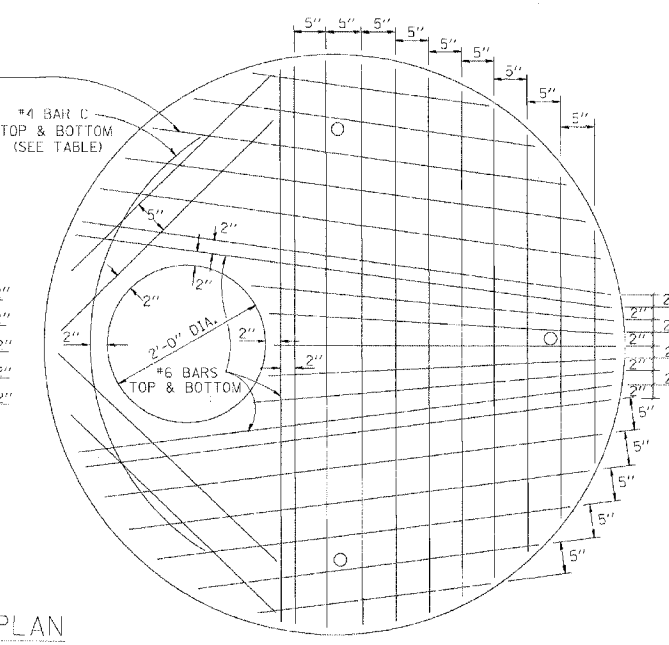
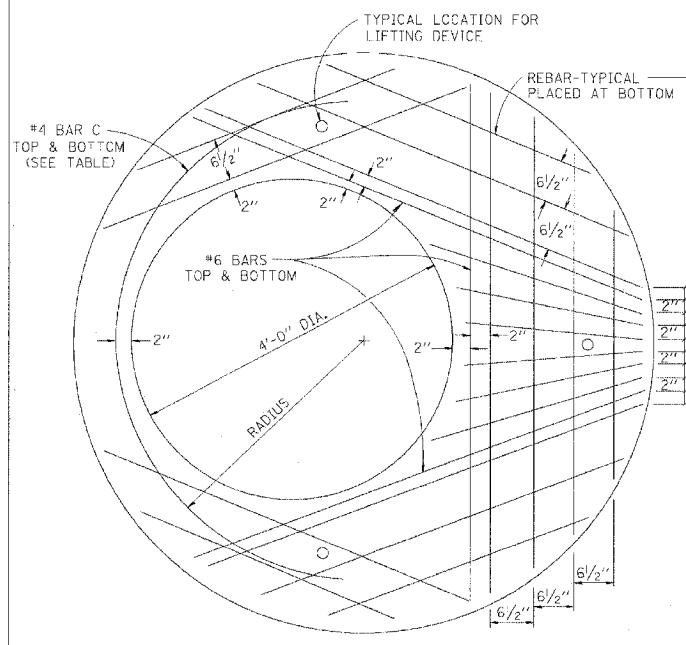
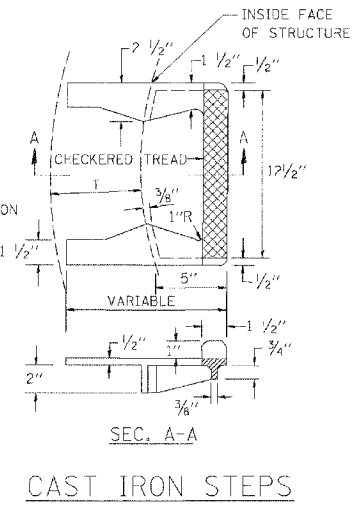
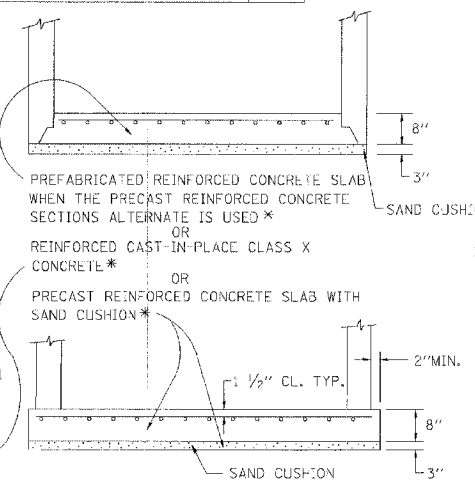
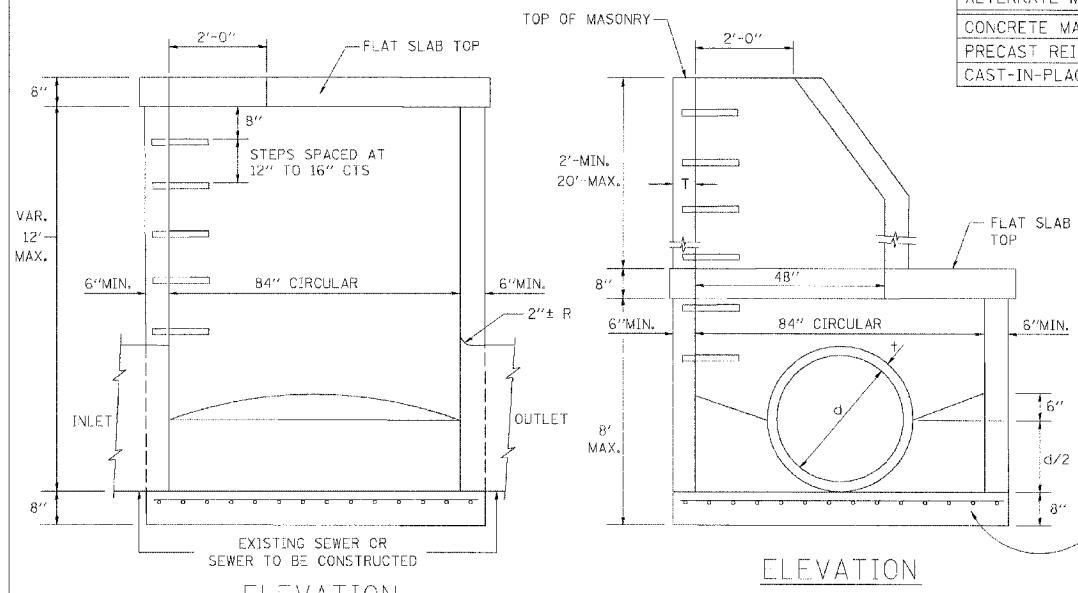
PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.

ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"



DIAMETER OF OPENING	REINFORCEMENT "A" S' WWF OR BAR SIZE EACH DIRECTION	OR BAR SIZE	BAR C SIZE	BAR C LENGTH	RADIUS
2'-0"	1.06 SQ. IN./LIN. FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ. IN./LIN. FT.	#6	#4	9'-0"	38"

NOTE: THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**MANHOLE TYPE A
7 FOOT DIAMETER**

SCALE: VERT. 1"=4'
HORIZ. 1"=4'

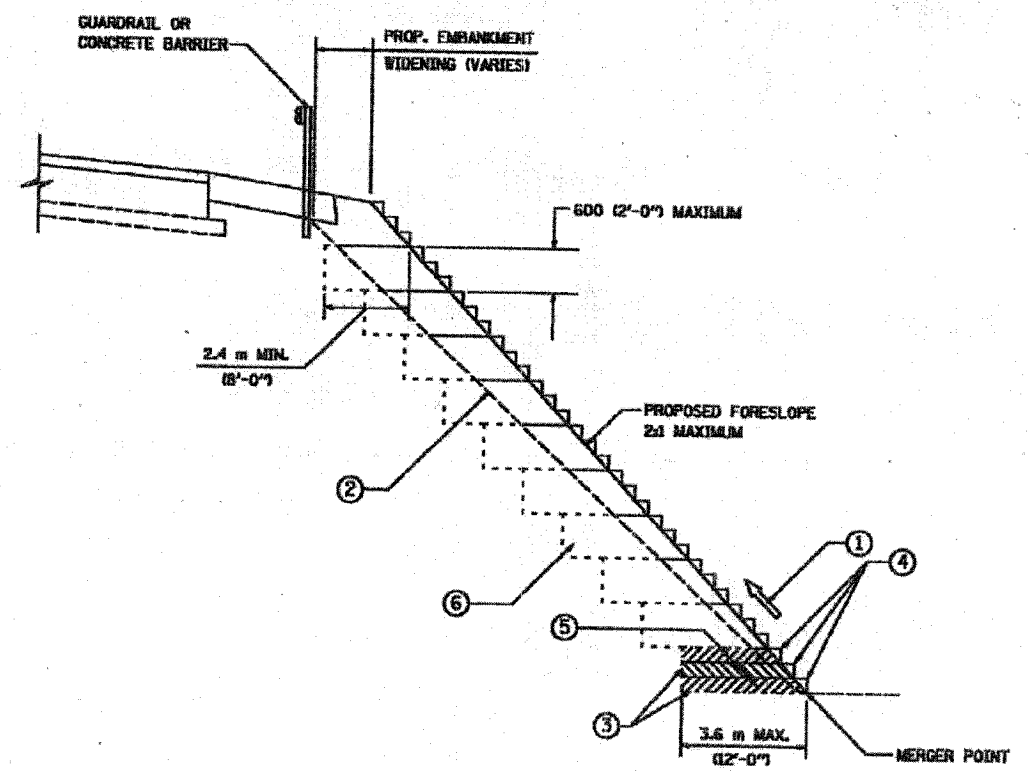
DATE: **DATE**

DRAWN BY: _____
CHECKED BY: _____

DATE-TIME
DGN-SPEC
VI=3037

BD600-1 (BD-37)

PLAN NO.	SHEET NO.	COUNTY	SHEET NO.	SHEET NO.
2774	00-00073-00-WR	COOK	116	97A
SHEET NO.		TO SHEET		
SHEET NO.		SHEET NO.		
CONTRACT NO.: 83727 CMM-7003 (750)				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 200 (8-INCH) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.06 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION (SPECIAL)". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

**BENCHING DETAIL
FOR EMBANKMENT
WIDENING**

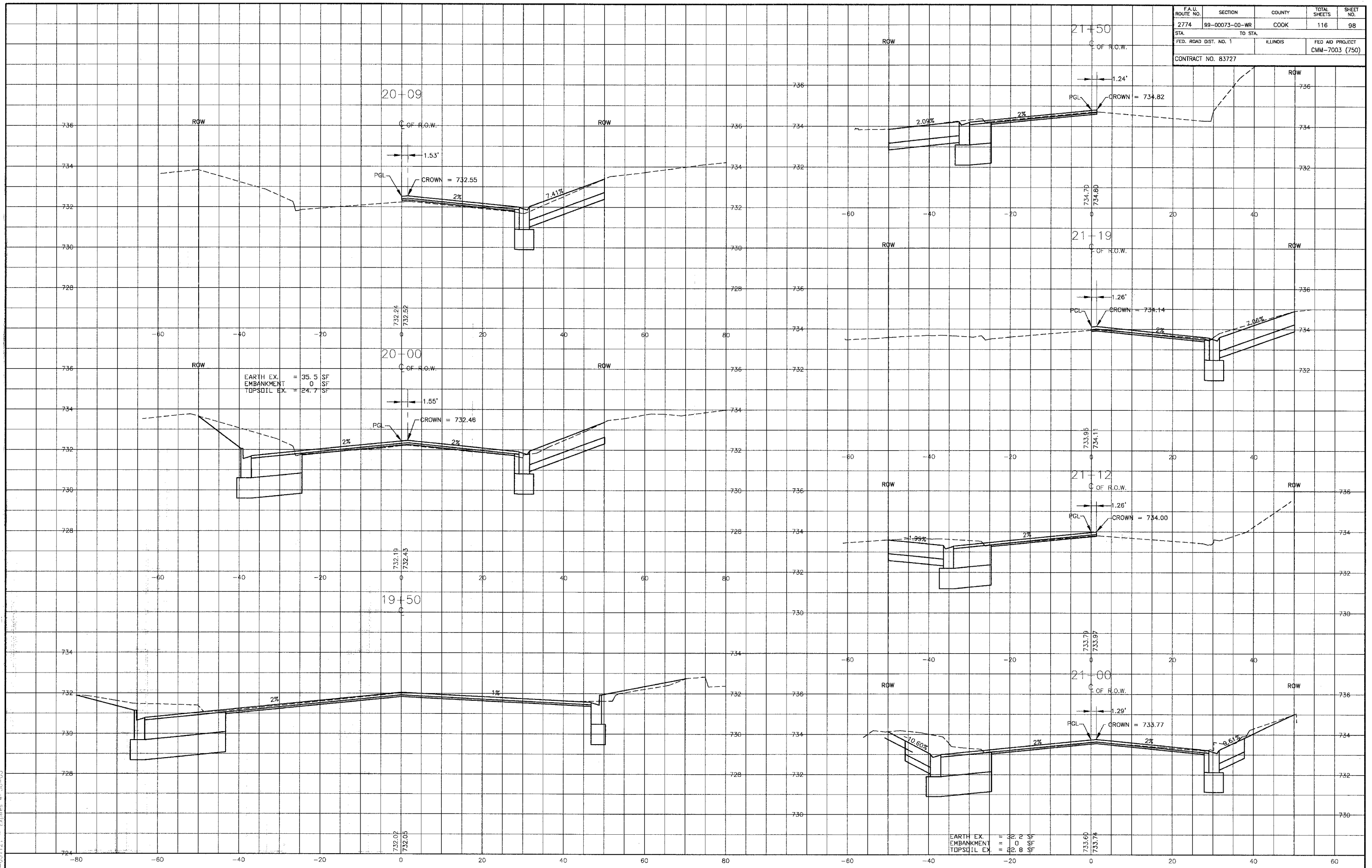
REVISIONS	
NAME	DATE

SCALE: NONE
DATE 10/18/2002

DRAWN BY: CAD
CHECKED BY: S.E.R.
BO-51

REVISION DATE:

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	98
STA.	TO STA.		FED AID PROJECT	
FED. ROAD DIST. NO. 1	ILLINOIS		CMM-7003 (750)	
CONTRACT NO. 83727				



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 Plotted: 4-30-06 11:43am B 23.muh
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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

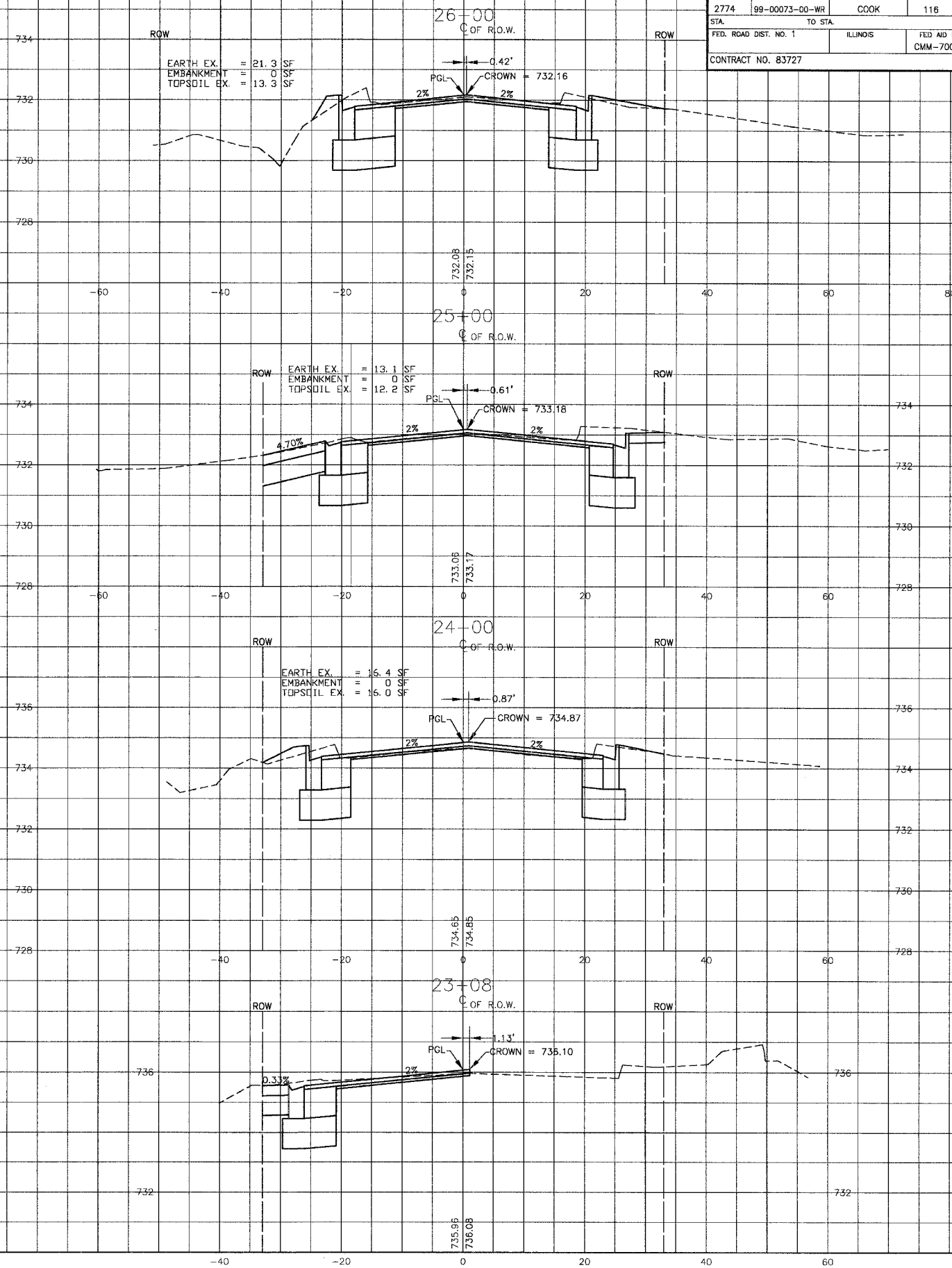
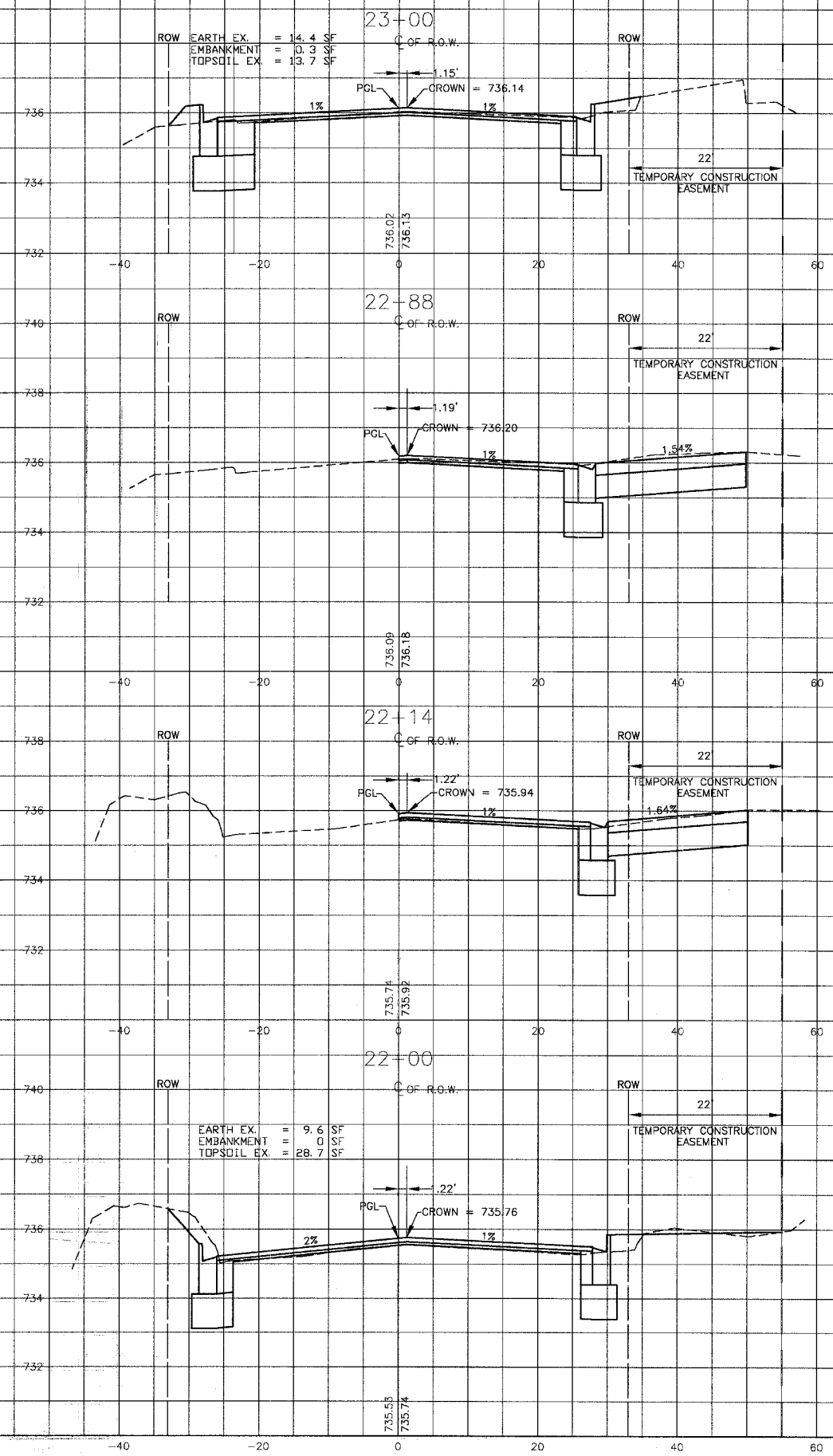
Baxter & Woodman
 Crystal Lake, Illinois 815.453.1260
 Burlington, Wisconsin 262.763.7824
 Mokena, Illinois 708.478.2080
 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 847.283.5088
 Rockford, Illinois 815.488.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 19+00 TO STA. 21+50

DESIGNED BY PAW	SCALE: VERT: 1"=2'
DRAWN BY UKB	HORIZ: 1"=10'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 98 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	99
STA.	TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS
				FED AID PROJECT CMM-7003 (750)
CONTRACT NO. 83727				



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REV. NO.	DATE	DESCRIPTION
1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

CONTRACTORS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

BAKTER & WOODMAN
 Consulting Engineers

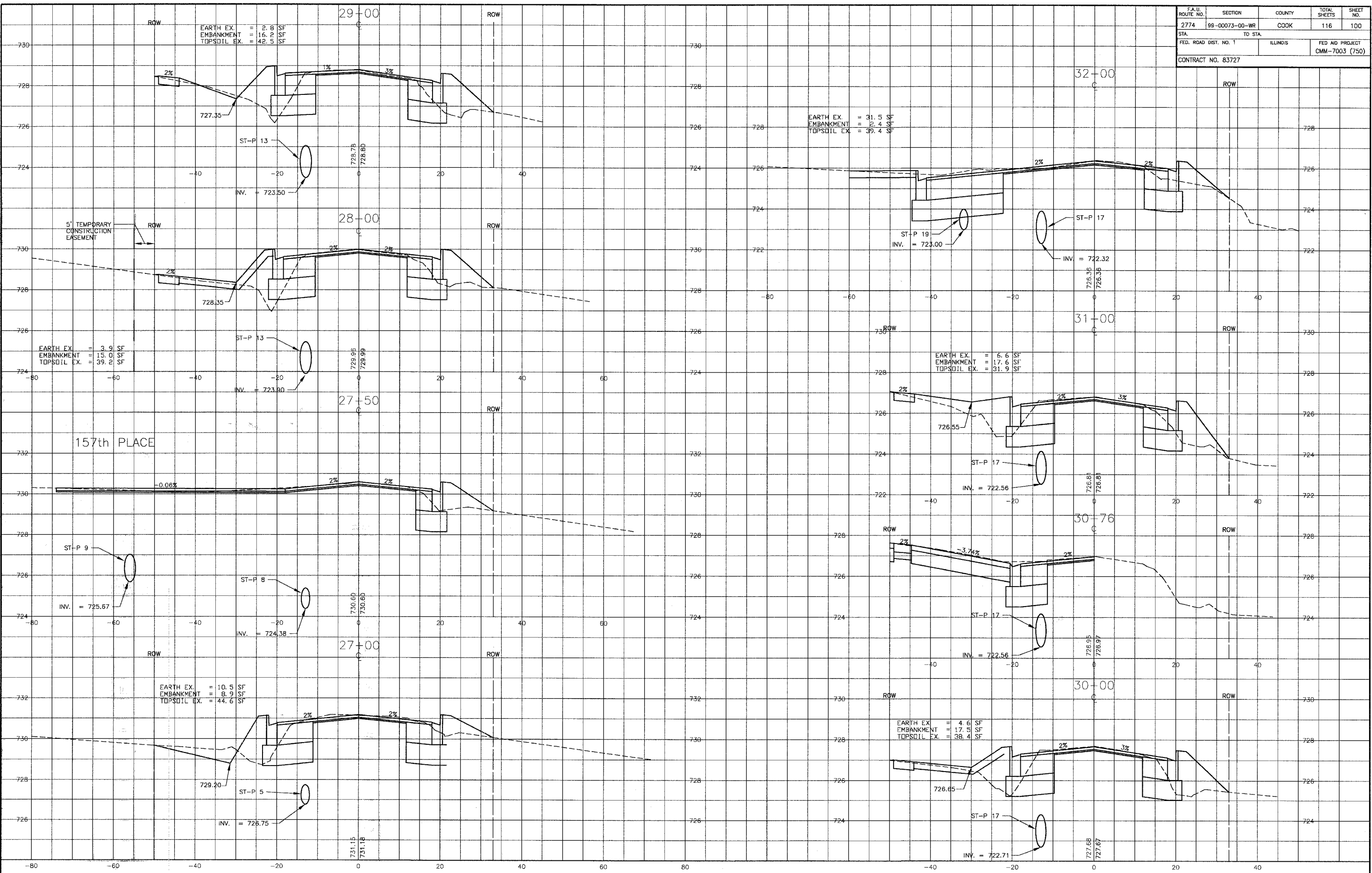
Baxter & Woodman
 Crystal Lake, Illinois 815.458.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Grayslake, Illinois 815.233.5089
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 22+00 TO STA. 26+00

DESIGNED BY PAW	SCALE VERT: 1"=2'
DRAWN BY UKB	HORIZ: 1"=10'
CHECKED BY UKB	PROJECT NO. 020146
NUP DATE 1-20-05	SHEET NO. 99 OF 116

F.A. II. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	100
STA.	TO STA.		ILLINOIS	FED AID PROJECT
FED. ROAD DIST. NO. 1				CMM-7003 (750)
CONTRACT NO. 83727				



157th PLACE

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1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

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BAXTER & WOODMAN
 Consulting Engineers

Baxter & Woodman
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 847.253.5088
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

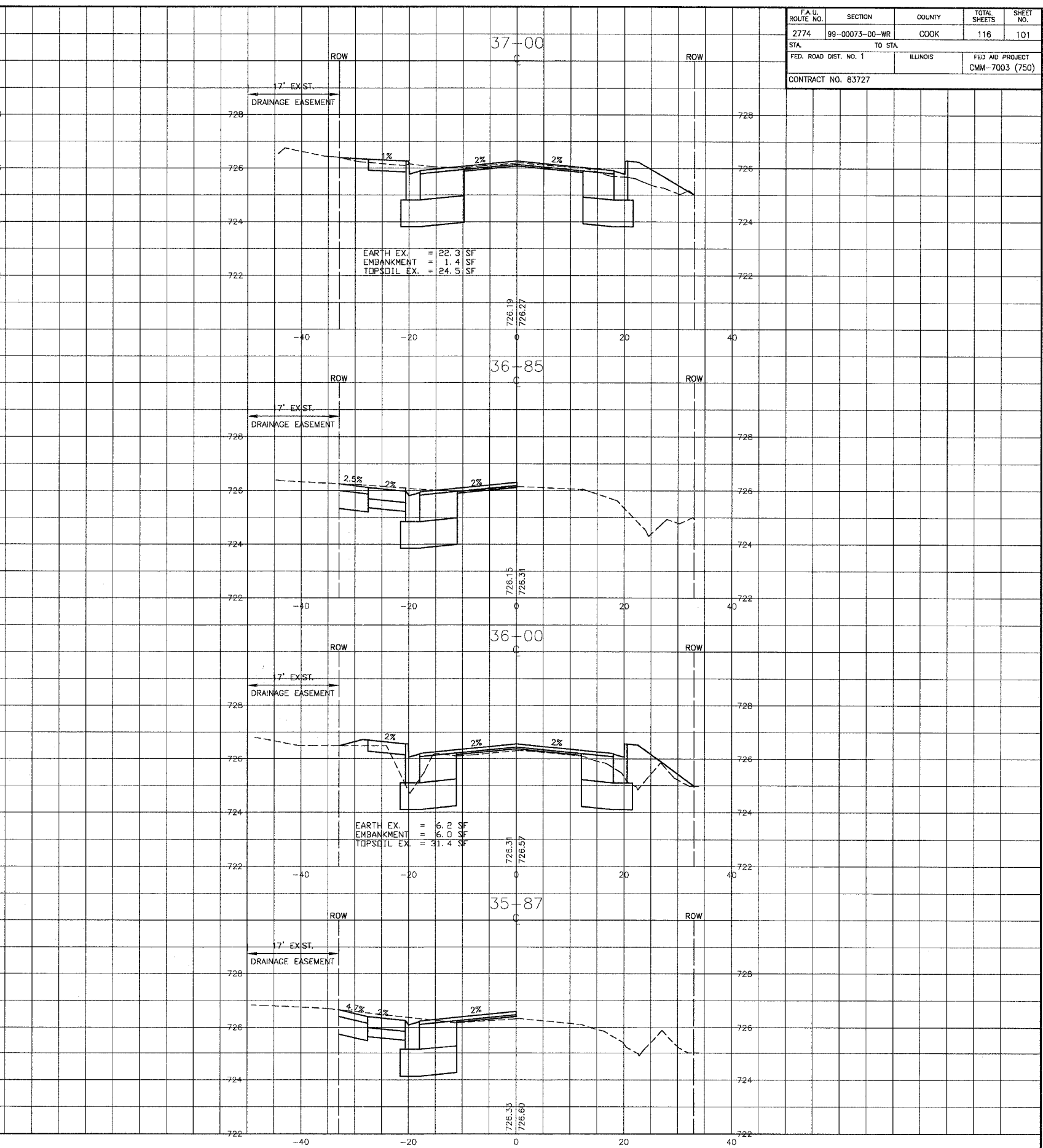
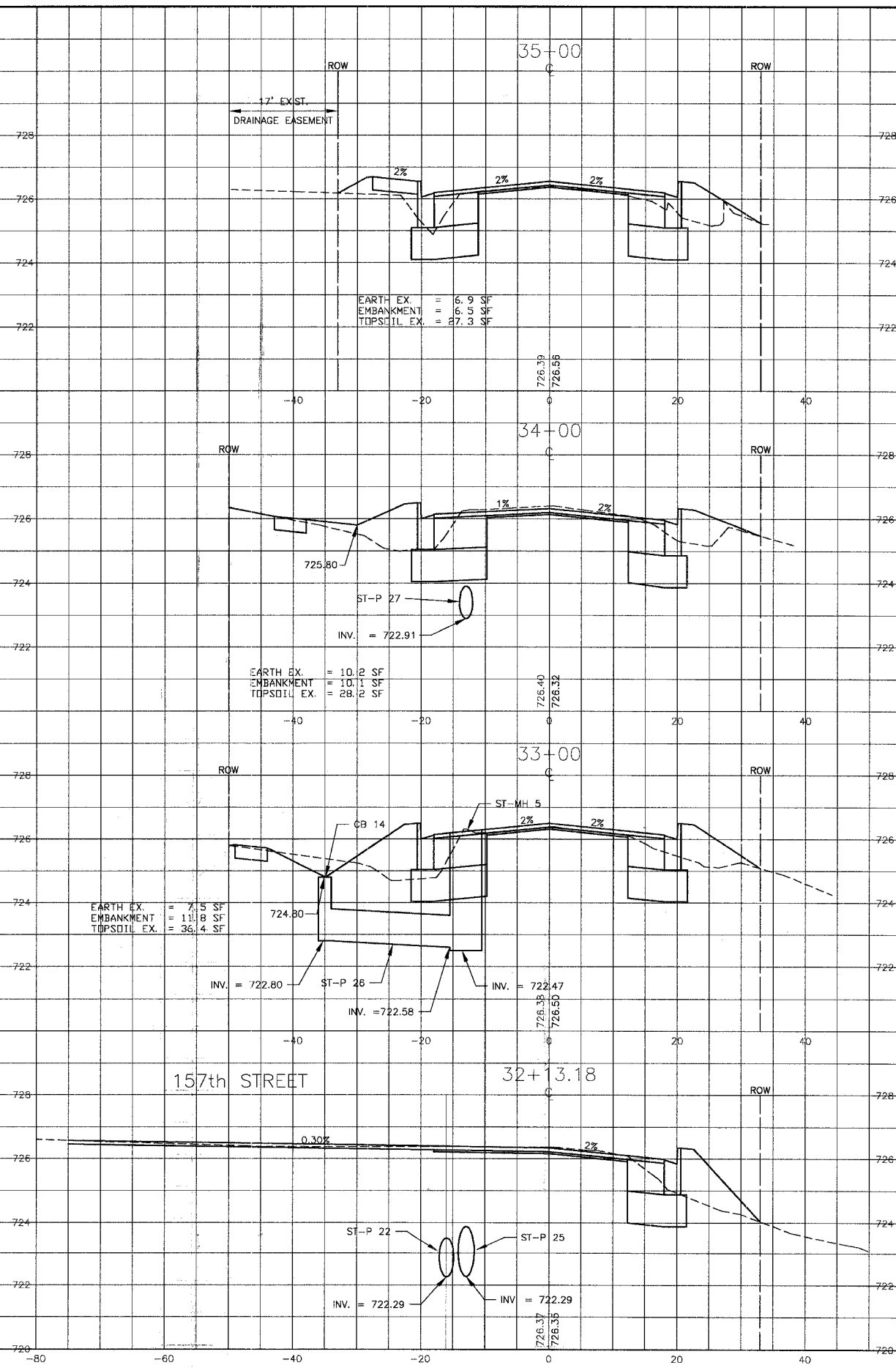
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 27+00 TO STA. 32+00

DESIGNED BY	SCALE	VERT: 1"=2'
PAW	HORIZ: 1"=10'	
DRAWN BY	PROJECT NO.	020146
UKB	SHEET NO.	
CHECKED BY		
NJP		
DATE		
1-20-05		

100 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	101
STA.	TO STA.		FED. ROAD DIST. NO. 1	
			ILLINOIS	
CONTRACT NO. 83727			FED AID PROJECT CMM-7003 (750)	



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 Plotter: 4-30-06 @ 11:50am By: 23\ubb
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REV. NO.	DATE	DESCRIPTION
1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

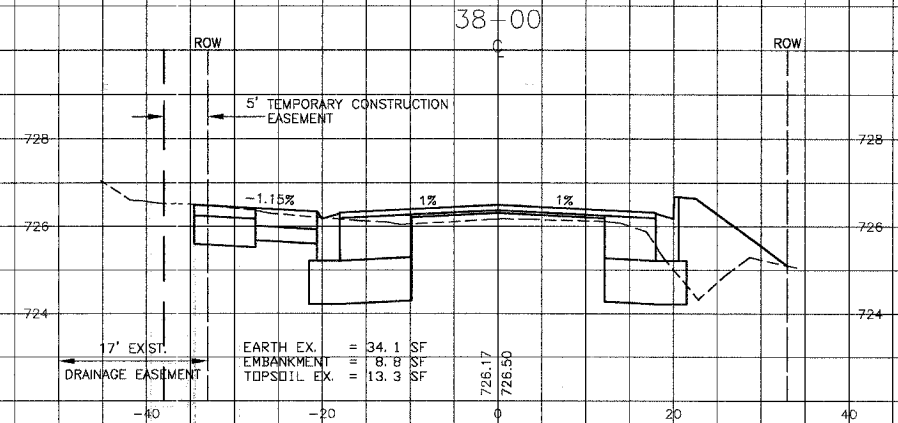
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

Baxter & Woodman
 Crystal Lake, Illinois 815.459.1360
 Burlington, Wisconsin 262.763.7834
 Mukwonago, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 847.223.5088
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

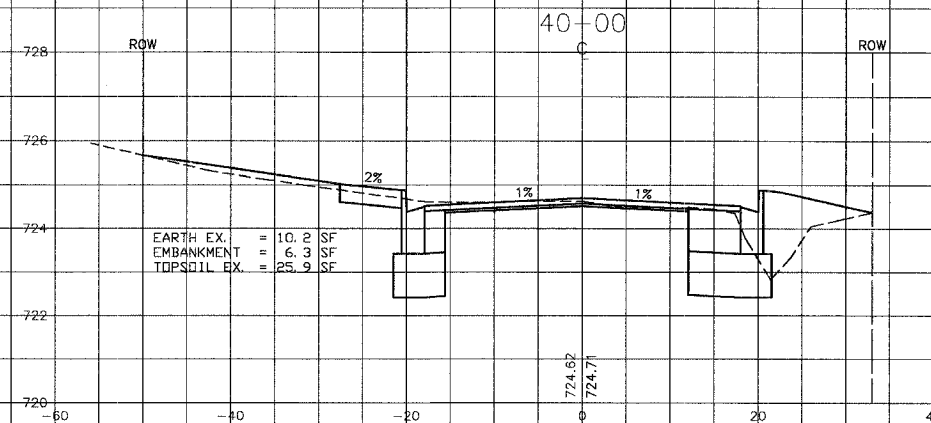
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 32+13.18 TO STA. 37+00

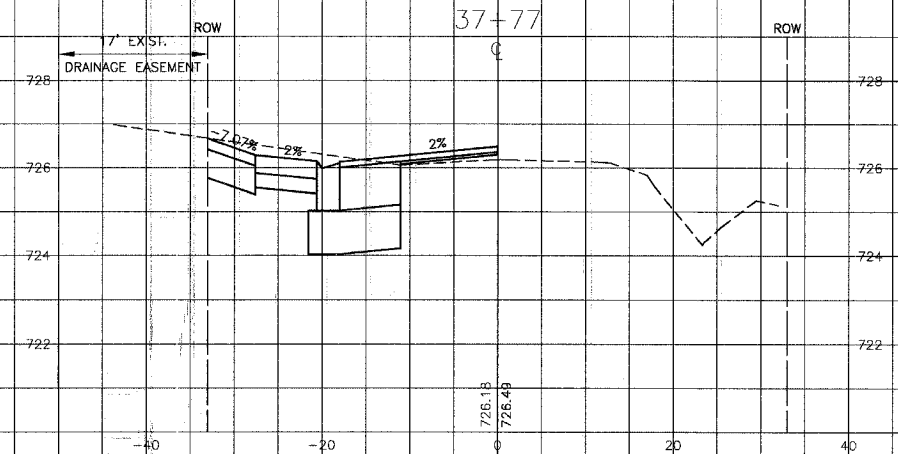
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PAW	VERT: 1"=2'
DRAWN BY	HORIZ: 1"=10'
UKB	PROJECT NO.
CHECKED BY	020146
NJP	SHEET NO.
DATE	1-20-05
	101 OF 116



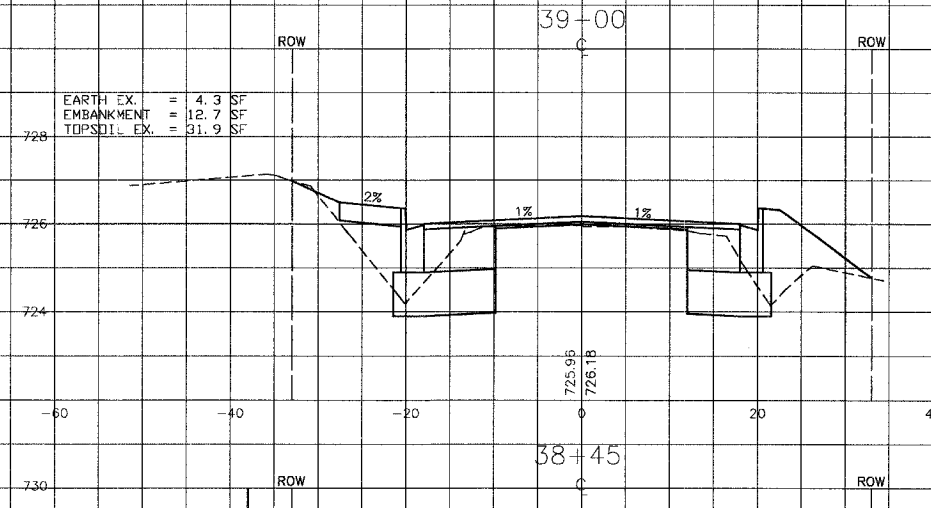
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 EMBANKMENT = 8.8 SF
 TOPSOIL EX. = 13.3 SF



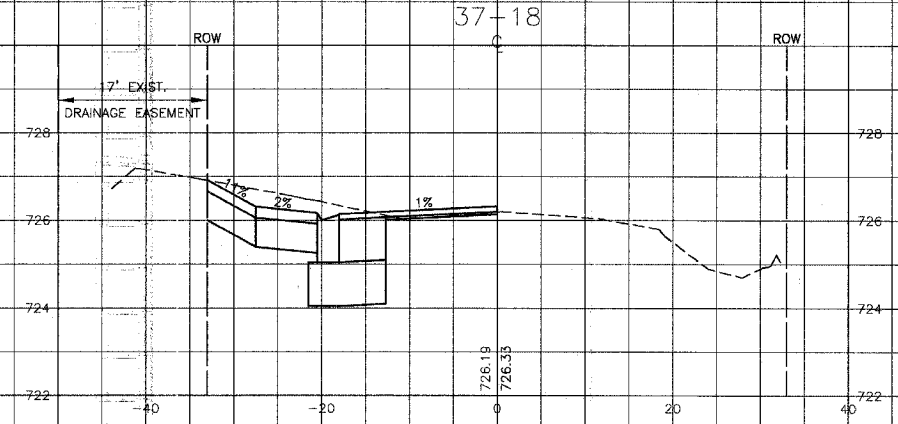
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 EMBANKMENT = 6.3 SF
 TOPSOIL EX. = 25.9 SF



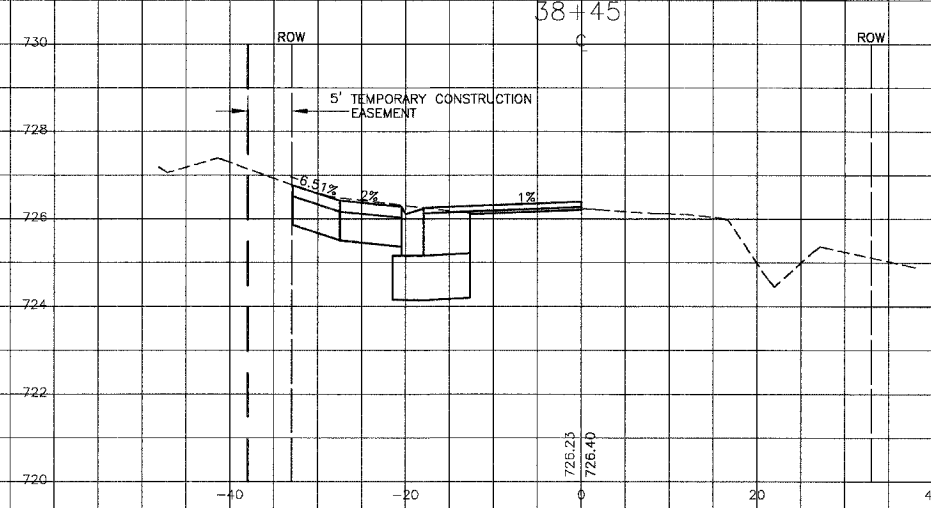
EARTH EX. = 4.3 SF
 EMBANKMENT = 12.7 SF
 TOPSOIL EX. = 31.9 SF



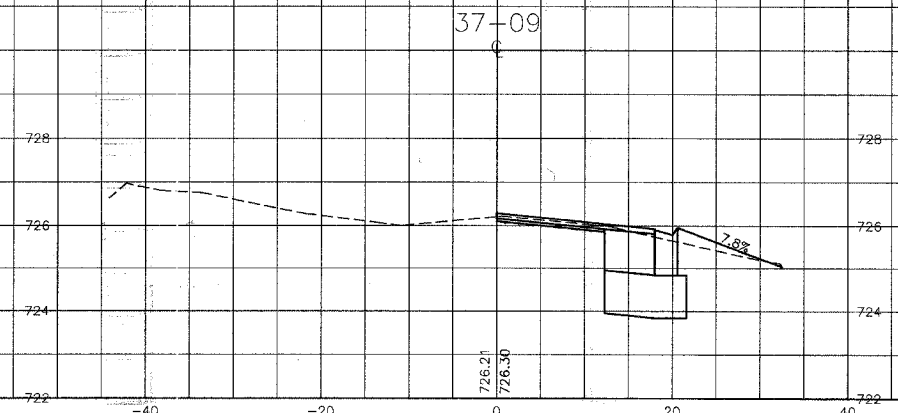
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 EMBANKMENT = 12.7 SF
 TOPSOIL EX. = 31.9 SF



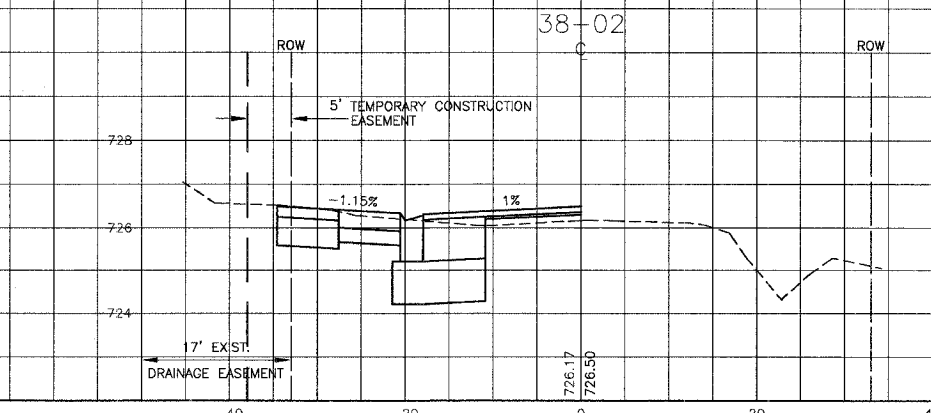
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 EMBANKMENT = 2.2 SF
 TOPSOIL EX. = 1.1 SF



EARTH EX. = 1.1 SF
 EMBANKMENT = 2.2 SF
 TOPSOIL EX. = 1.1 SF



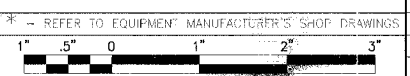
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 EMBANKMENT = 2.2 SF
 TOPSOIL EX. = 1.1 SF



EARTH EX. = 1.1 SF
 EMBANKMENT = 2.2 SF
 TOPSOIL EX. = 1.1 SF

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REV. NO.	DATE	DESCRIPTION
1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS



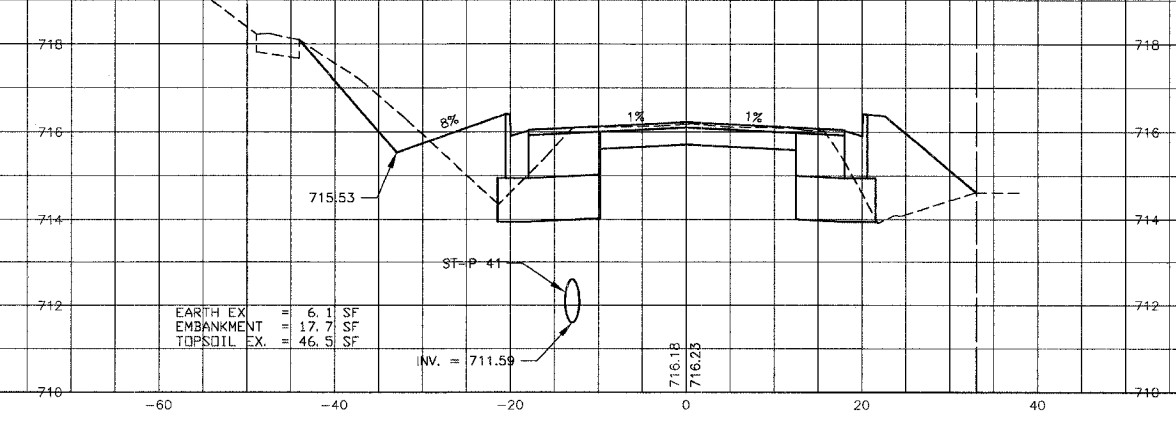
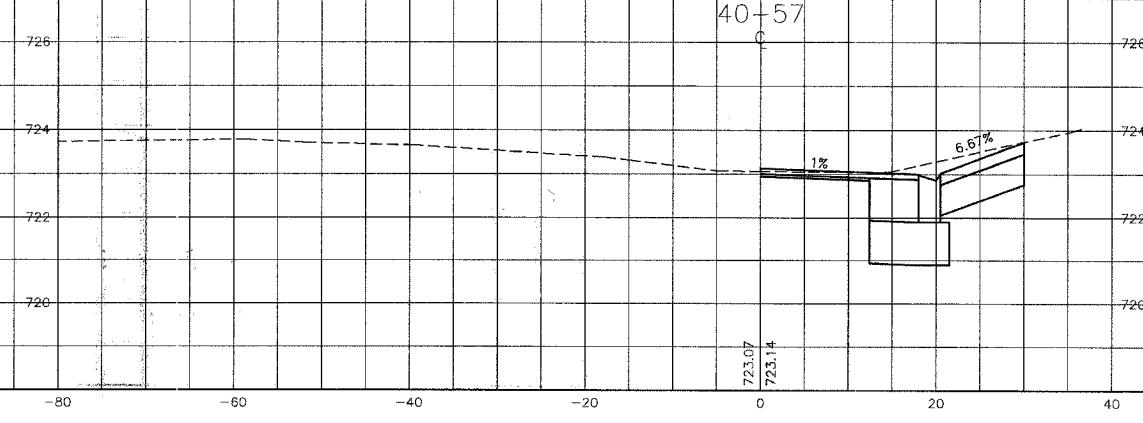
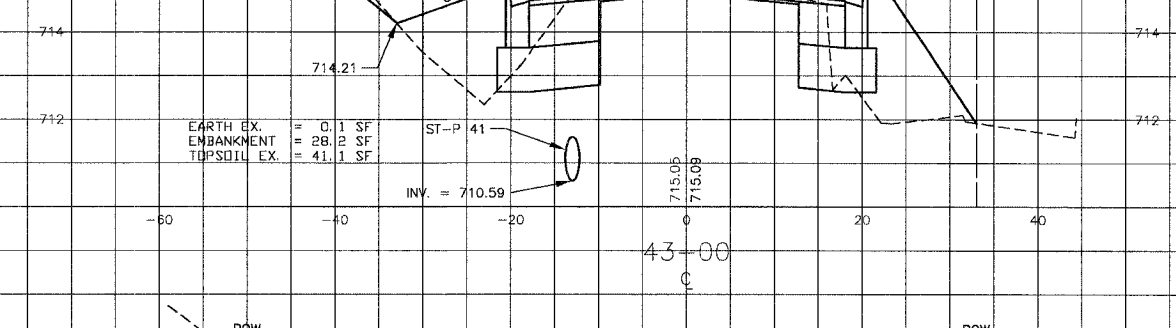
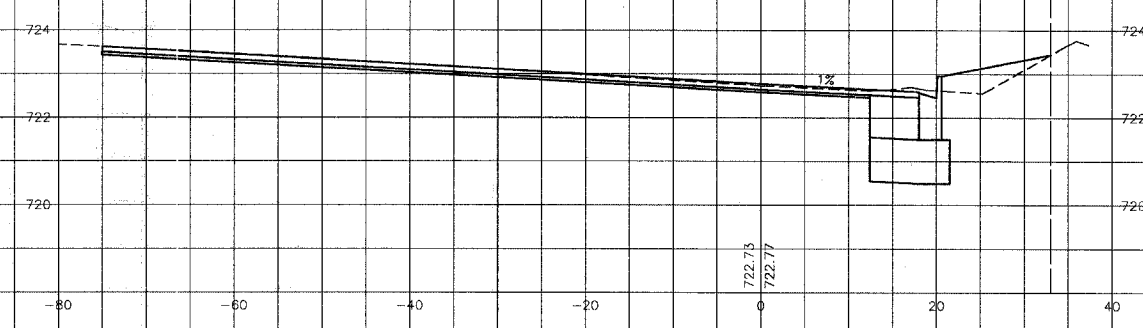
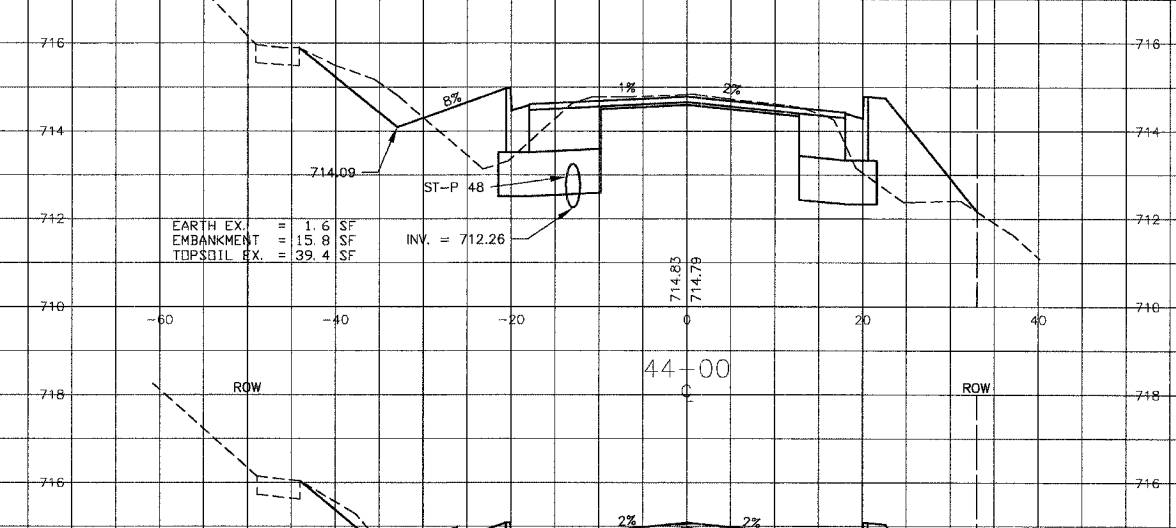
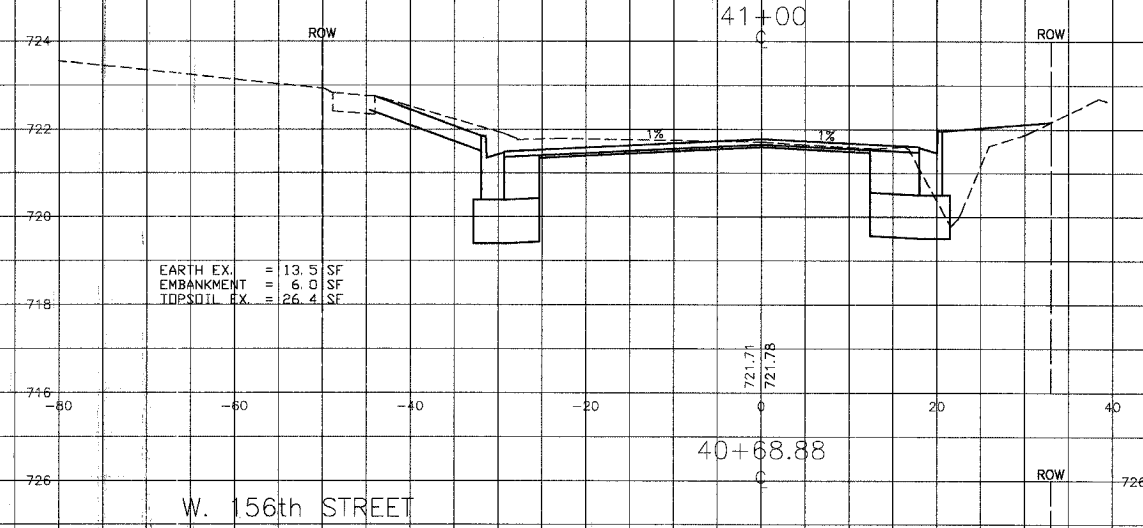
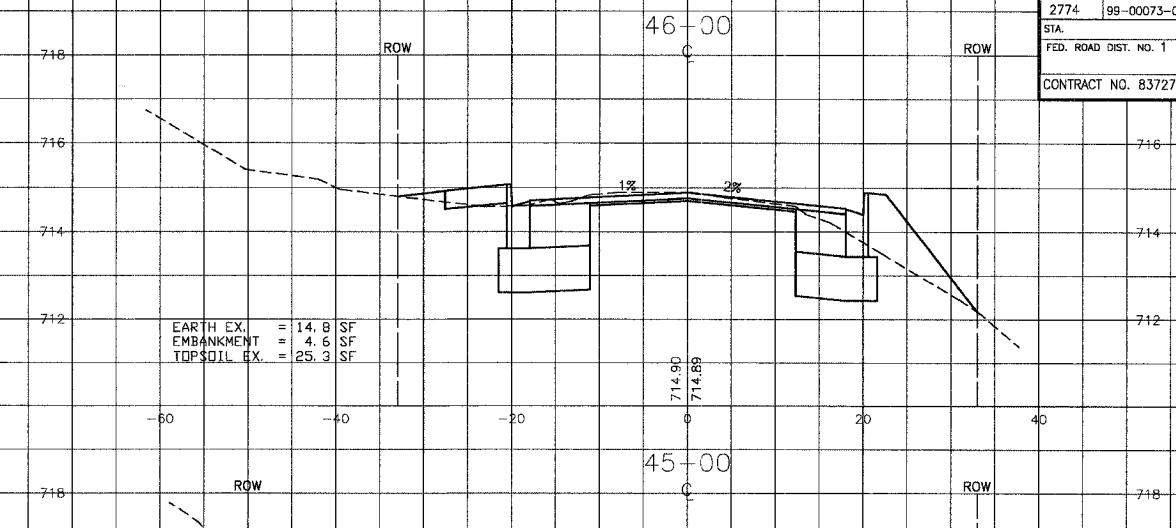
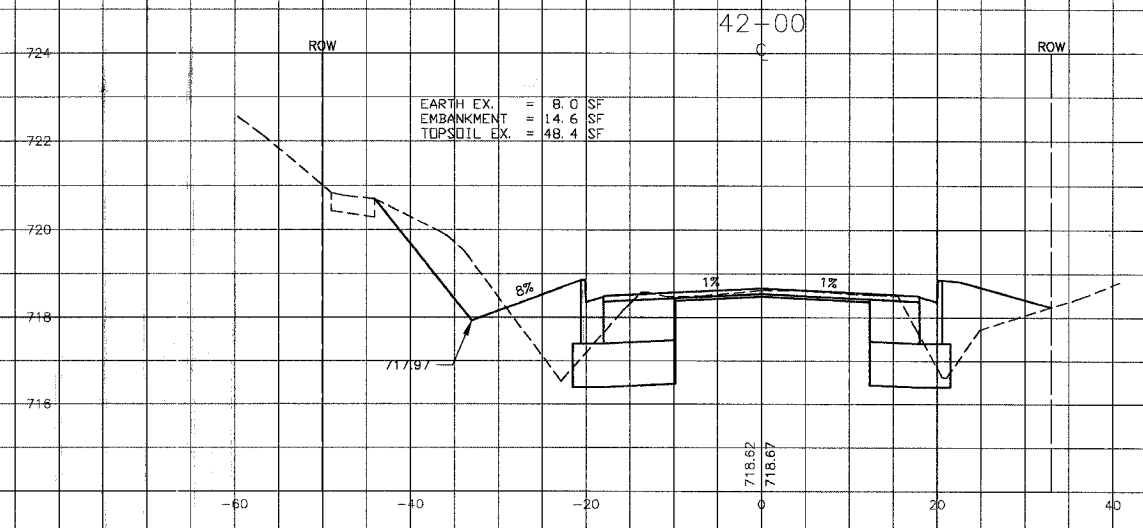
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 Consulting Engineers

Baxter & Woodman
 Crystal Lake, Illinois 815.459.1260
 Huntington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.5090
 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 847.226.5088
 Rockford, Illinois 815.468.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 37+09 TO STA. 40+00

DESIGNED BY PAW	SCALE VERT: 1"=2'
DRAWN BY UKB	HORIZ: 1"=10'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 102 OF 116



W. 156th STREET

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

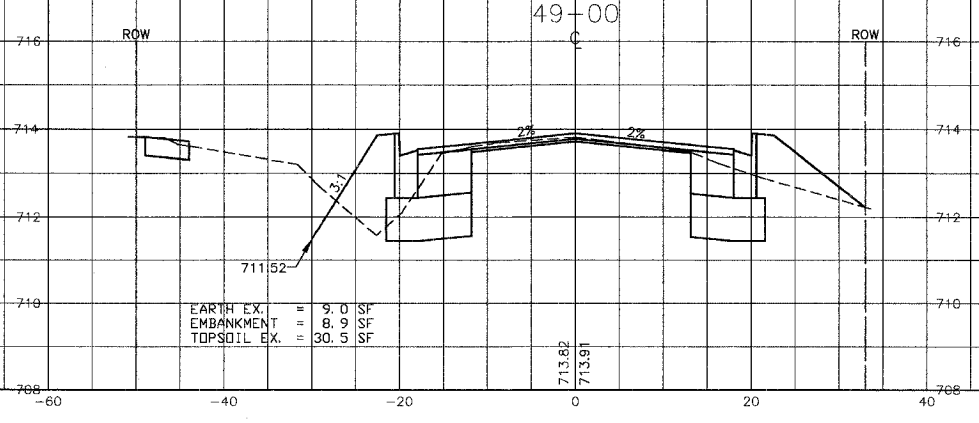
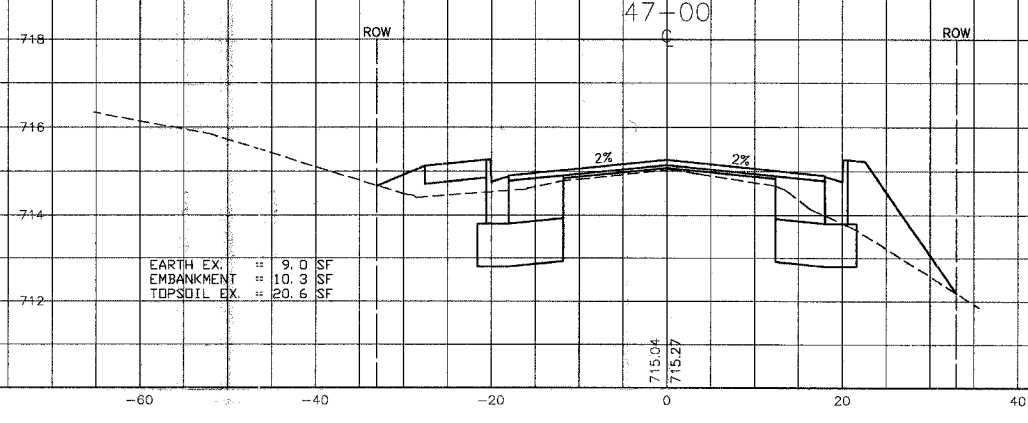
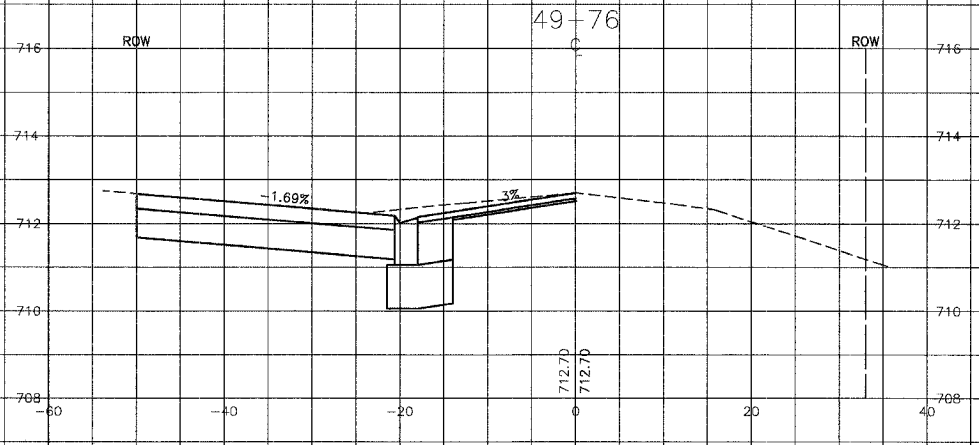
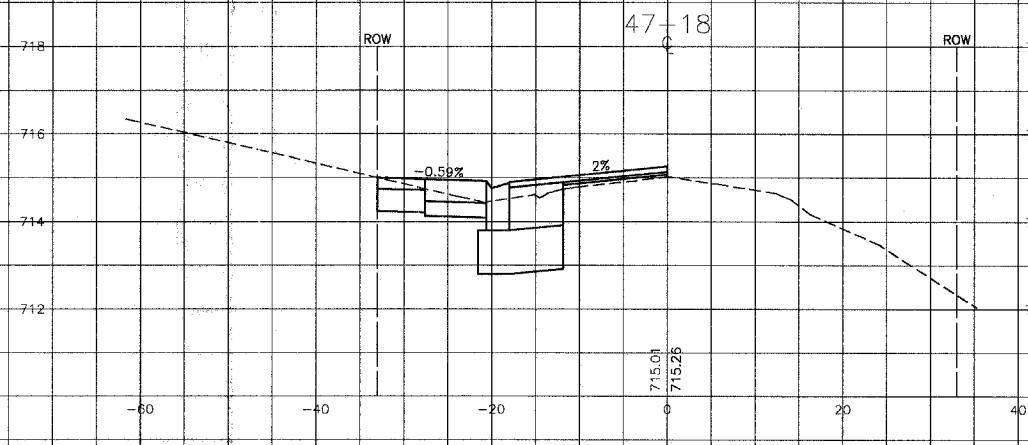
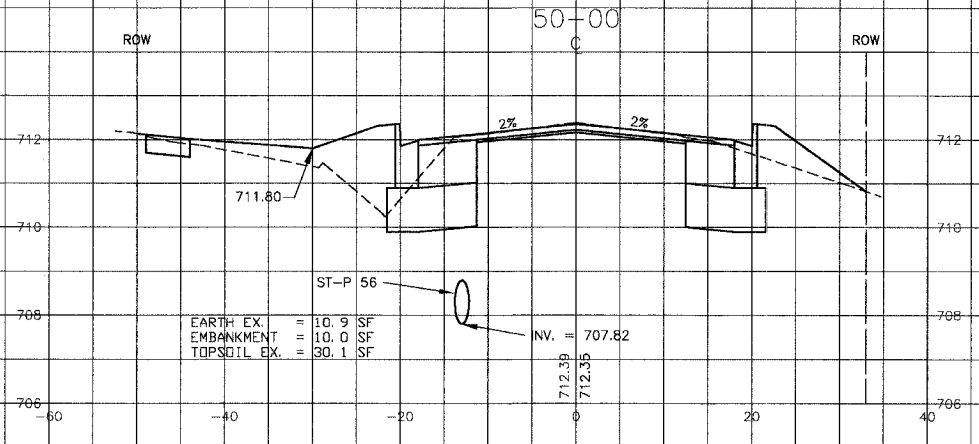
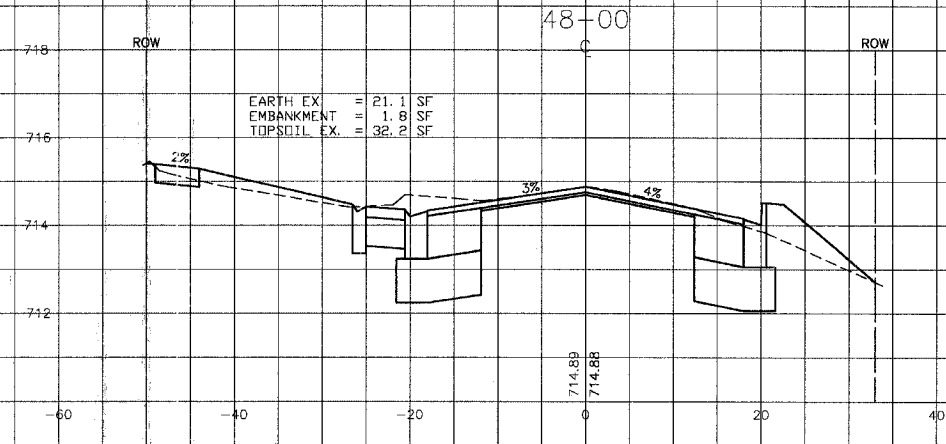
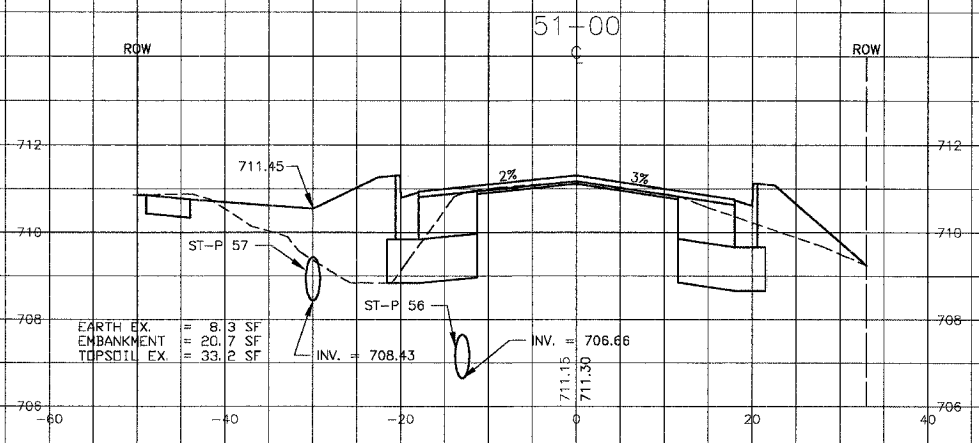
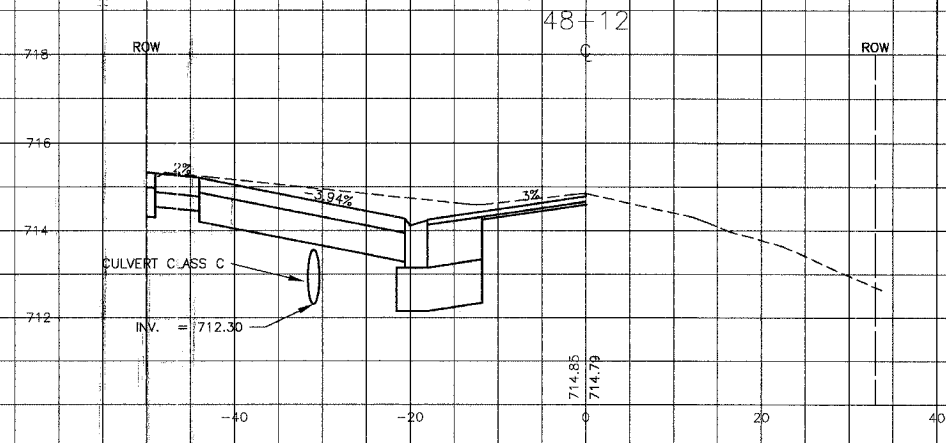
BAXTER & WOODMAN
Consulting Engineers

Baxter & Woodman
Crystal Lake, Illinois 815.469.1200
Burlington, Wisconsin 262.763.2834
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Grayslake, Illinois 847.223.0888
Rockford, Illinois 815.489.1051
Plattsfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 40+57 TO STA. 46+00

DESIGNED BY PAW	SCALE VERT: 1"=2' HORIZ: 1"=10'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	103 OF 116



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

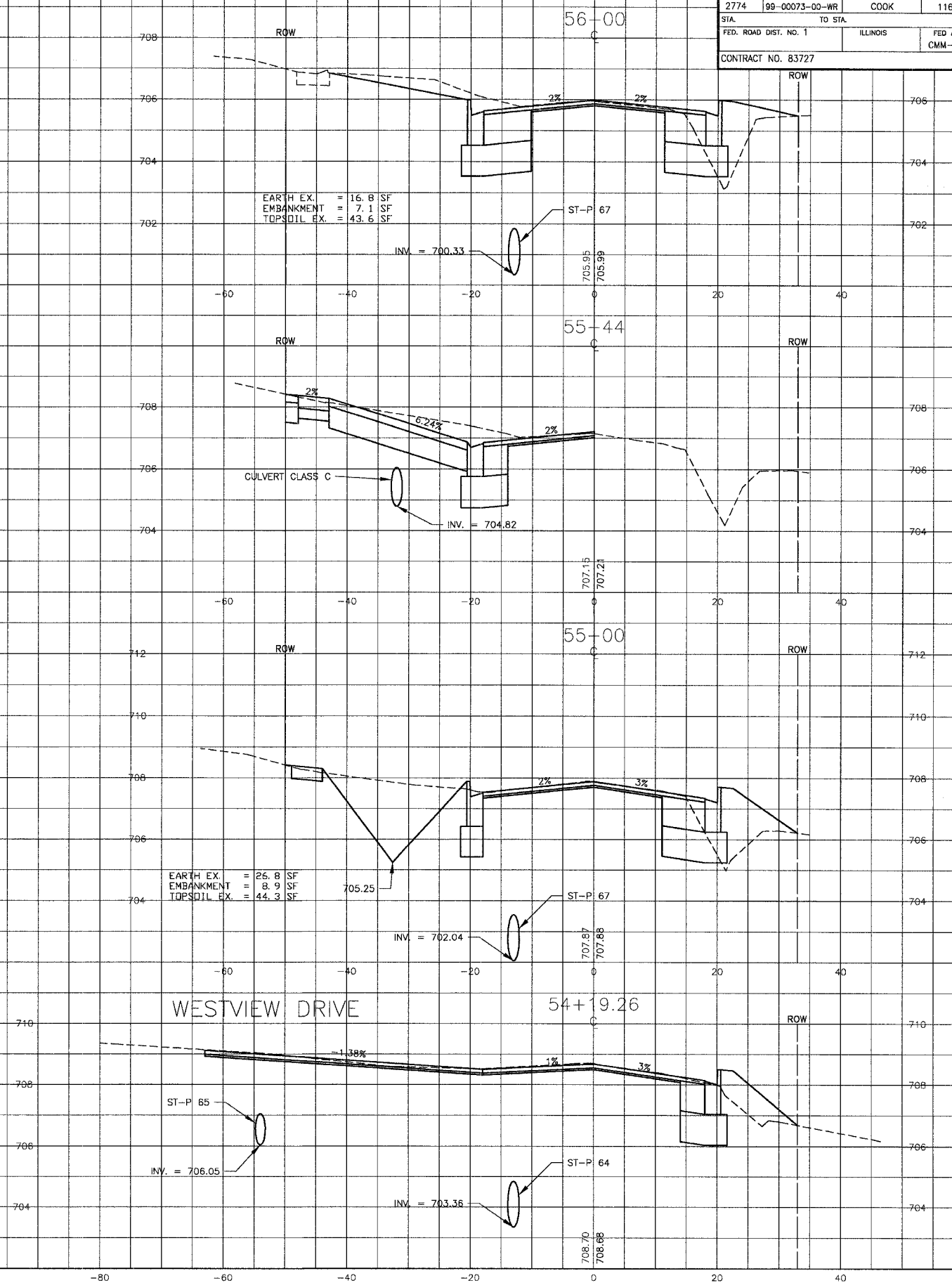
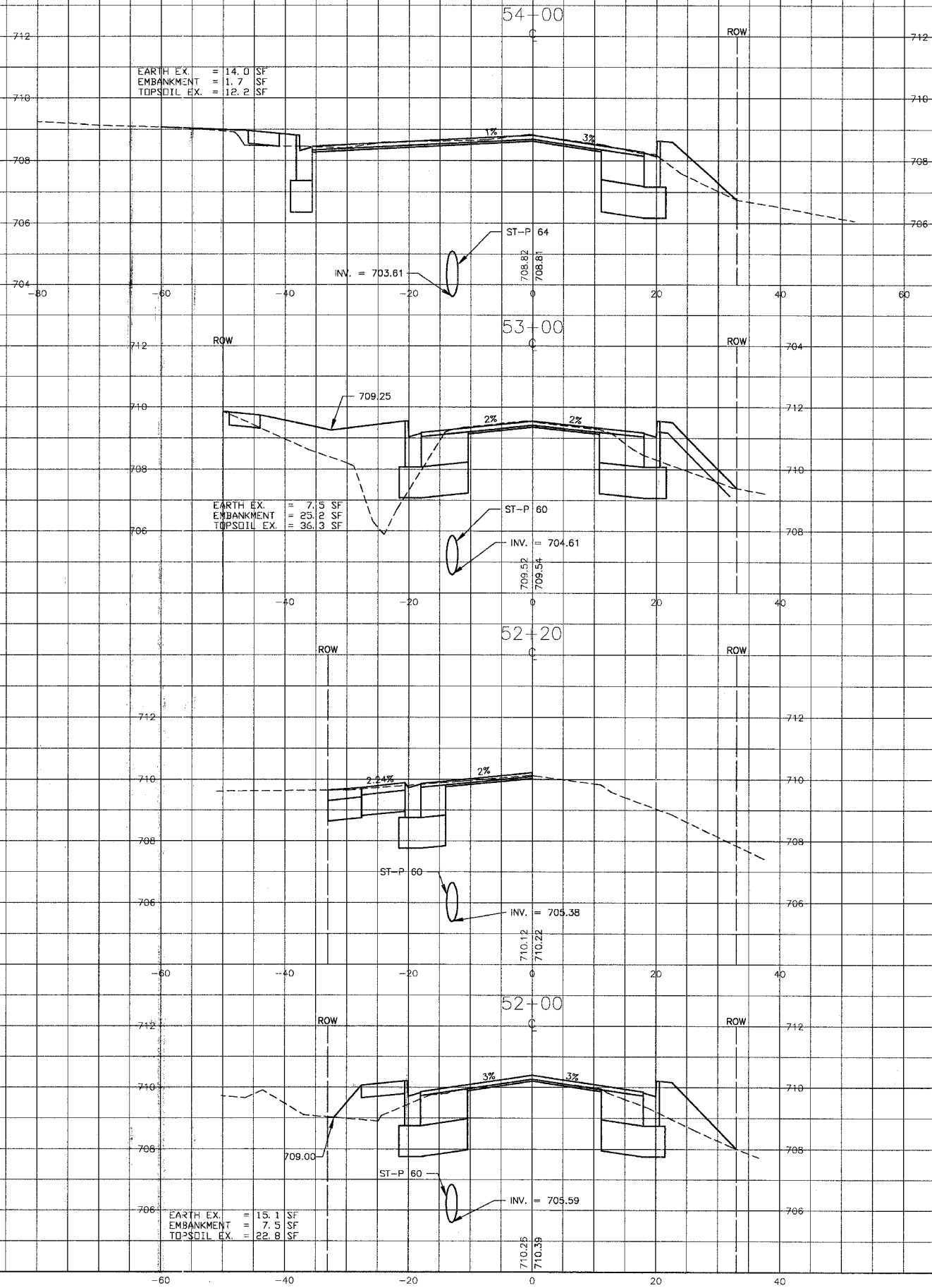
Baxter & Woodman
 Crystal Lake, Illinois 815.439.1260
 Burlington, Wisconsin 262.763.7931
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 847.253.5089
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 47+00 TO STA. 51+00

DESIGNED BY	SCALE	VERT: 1"=2'
PAW	HORIZ: 1"=10'	
DRAWN BY	PROJECT NO.	020146
UKB	SHEET NO.	
CHECKED BY		
NJP		
DATE		
1-20-05		104 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	105
STA.	TO STA.	ILLINOIS FED. AID PROJECT CMM-7003 (750)		
FED. ROAD DIST. NO. 1		CONTRACT NO. 83727		



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CONSULTANTS	REV. NO	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
Consulting Engineers

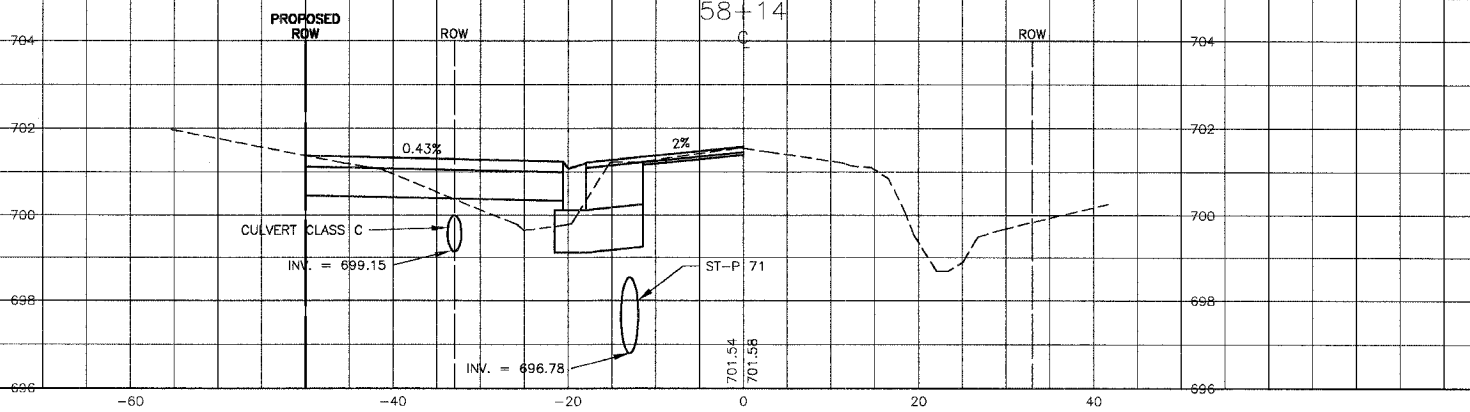
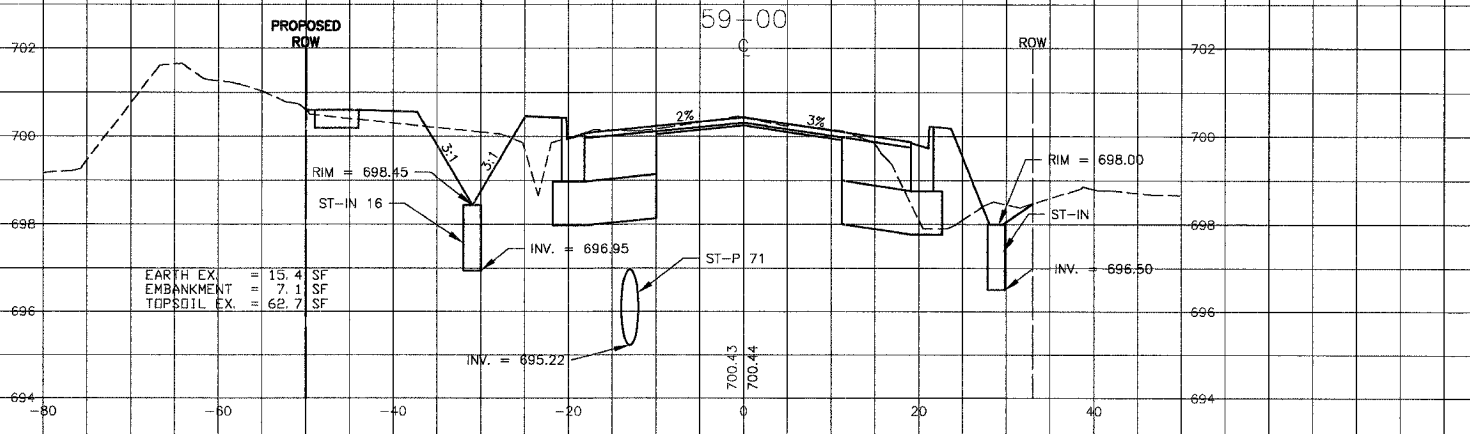
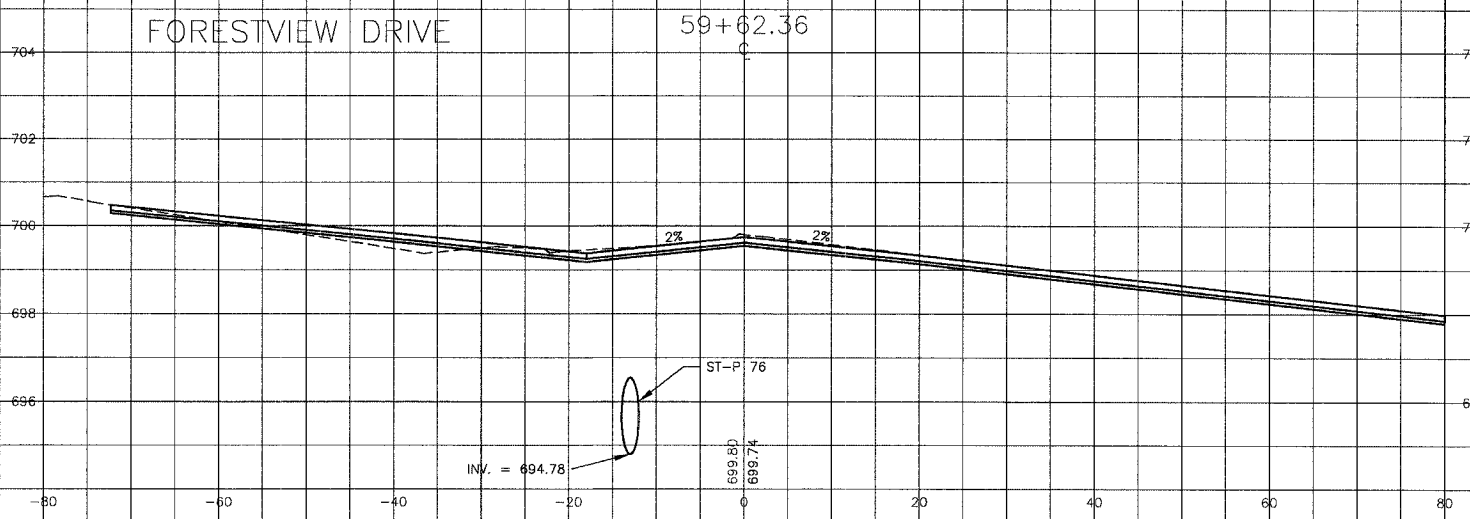
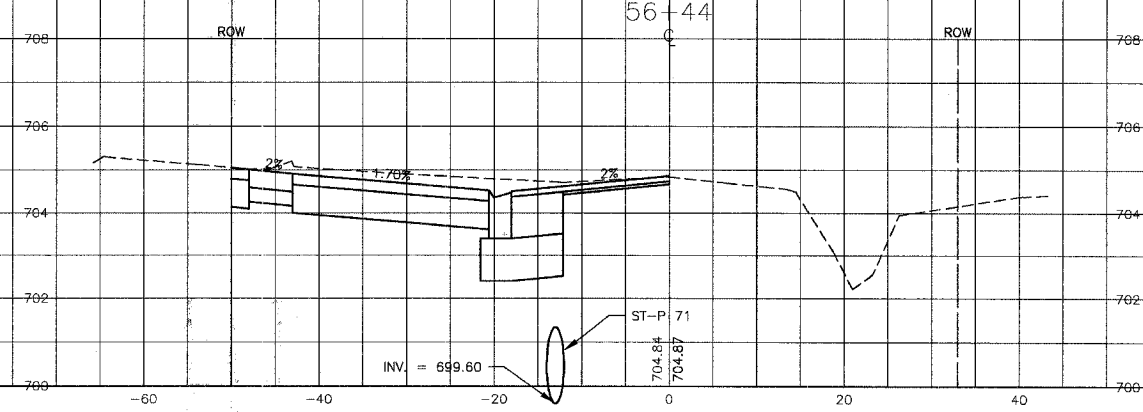
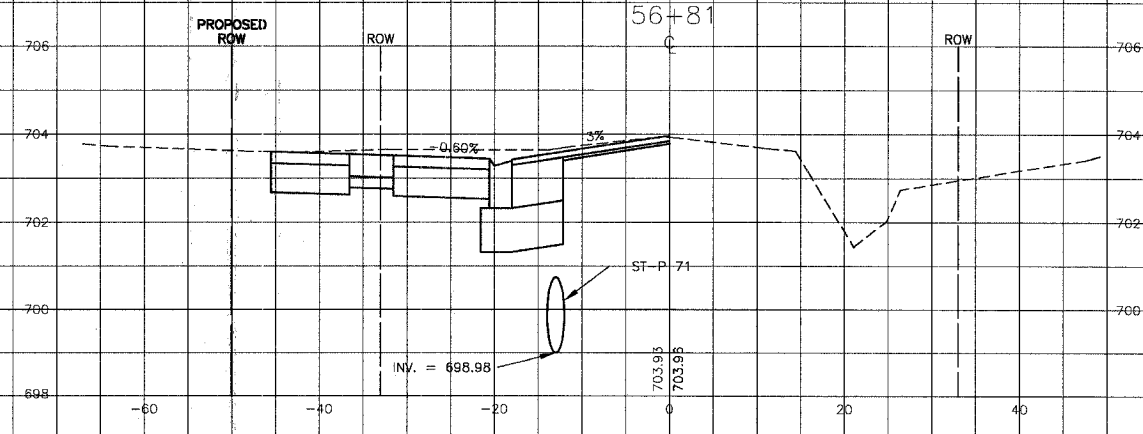
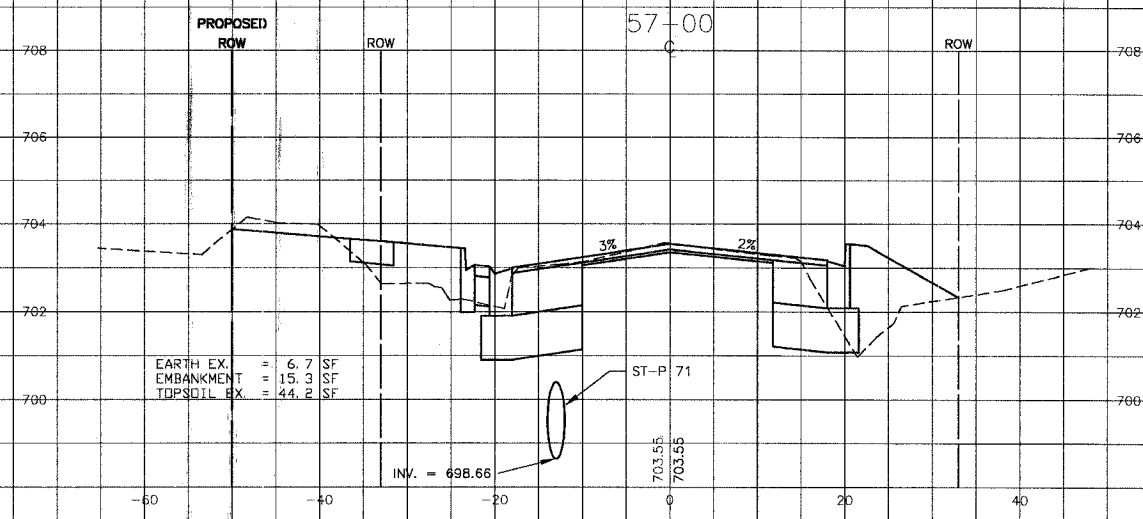
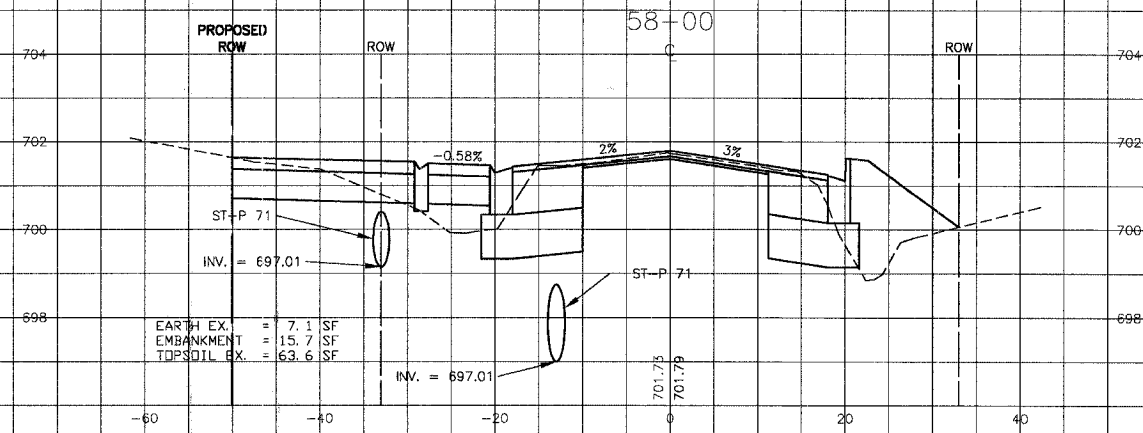
Baxter & Woodman
Crystal Lake, Illinois 815.439.1260
Burlington, Wisconsin 262.763.7934
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.767.3111
Graylake, Illinois 847.323.5088
Rockford, Illinois 815.489.1551
Plainfield, Illinois 815.699.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 52+00 TO STA. 56+00

DESIGNED BY PAW	SCALE VERT: 1"=2' HORIZ: 1"=10'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO. 105 OF 116
DATE 1-20-05	

F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	106
STA.	TO STA.		ILLINOIS	
FED. ROAD DIST. NO. 1			FED AID PROJECT	
			CMM-7003 (750)	
CONTRACT NO. 83727				



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

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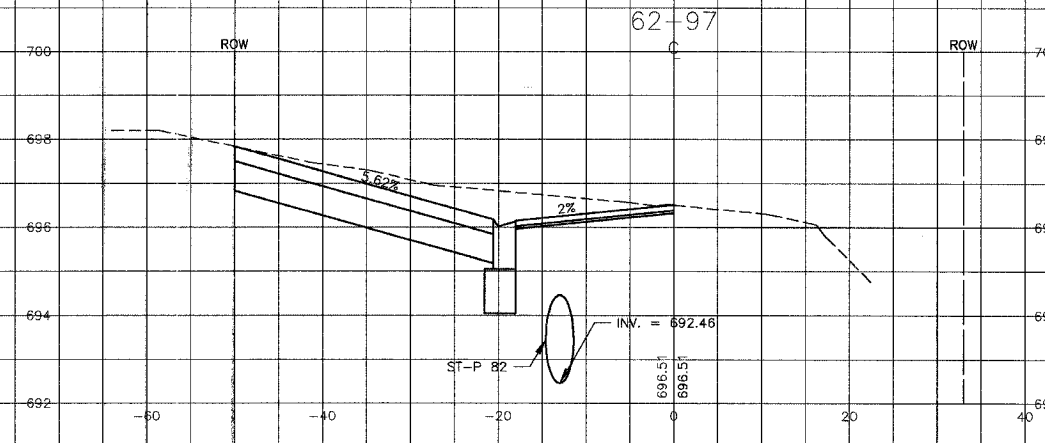
Baxter & Woodman
 Consulting Engineers
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 847.223.5098
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

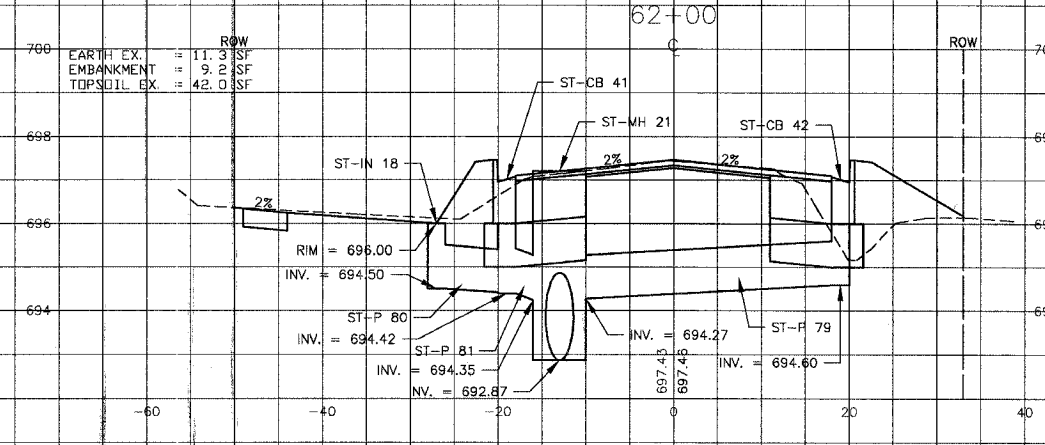
CROSS SECTIONS
OAK PARK AVENUE
STA. 56+44 TO STA. 59+62.36

DESIGNED BY	SCALE VERT: 1"=2'
PAW	HORIZ: 1"=10'
DRAWN BY	PROJECT NO.
JKB	020146
CHECKED BY	SHEET NO.
NJP	106 OF 116
DATE	1-20-05

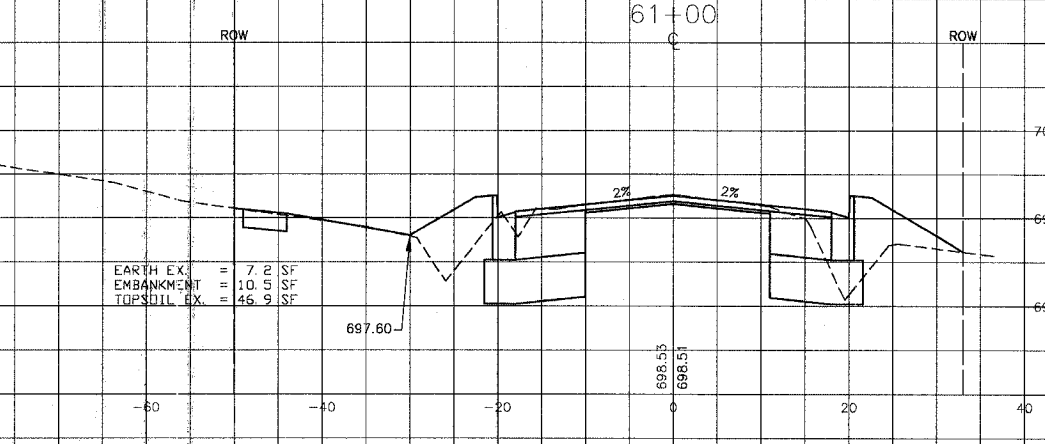
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	107
STA.	TO STA.	ILLINOIS	FED AID PROJECT CMM-7003 (750)	
FED. ROAD DIST. NO. 1		CONTRACT NO. 83727		



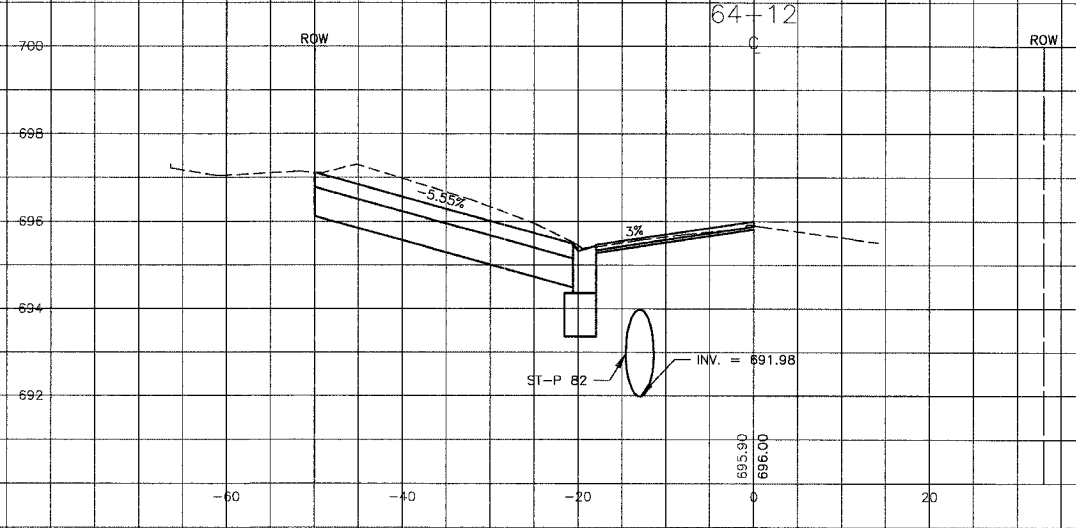
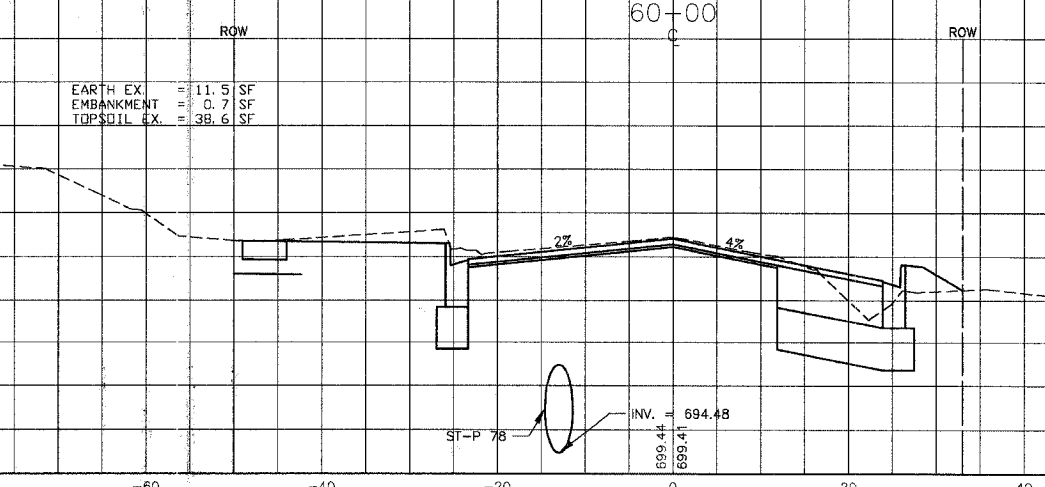
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 TOPSOIL EX. = 42.0 SF



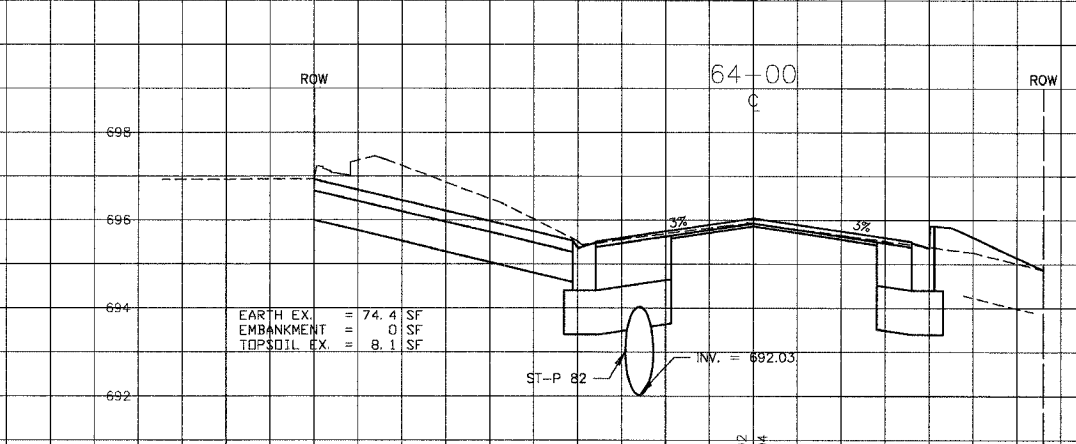
ROW
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 EMBANKMENT = 10.0 SF
 TOPSOIL EX. = 45.9 SF



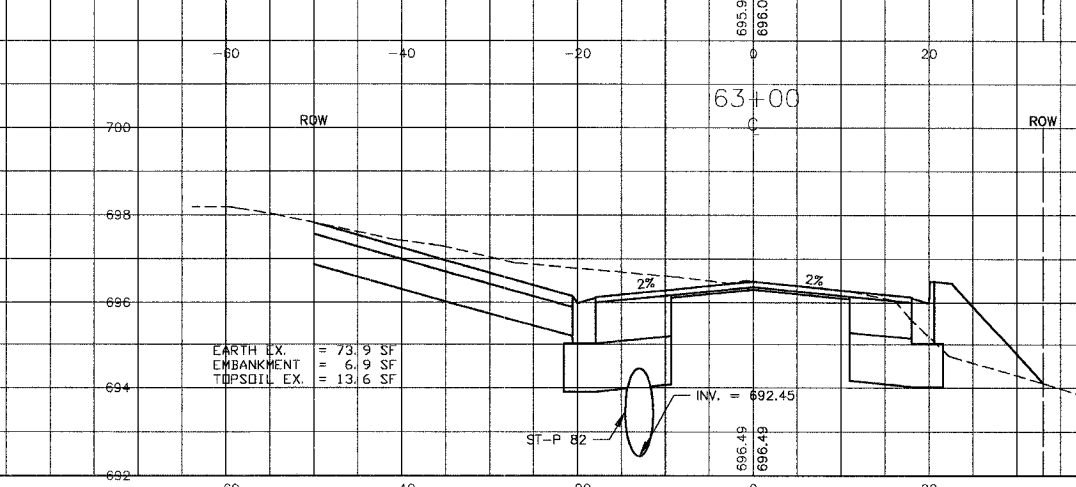
ROW
 EARTH EX. = 11.5 SF
 EMBANKMENT = 0.7 SF
 TOPSOIL EX. = 38.6 SF



ROW
 EARTH EX. = 74.4 SF
 EMBANKMENT = 0 SF
 TOPSOIL EX. = 8.1 SF



ROW
 EARTH EX. = 73.9 SF
 EMBANKMENT = 6.9 SF
 TOPSOIL EX. = 13.6 SF



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
BAXTER & WOODMAN Consulting Engineers	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

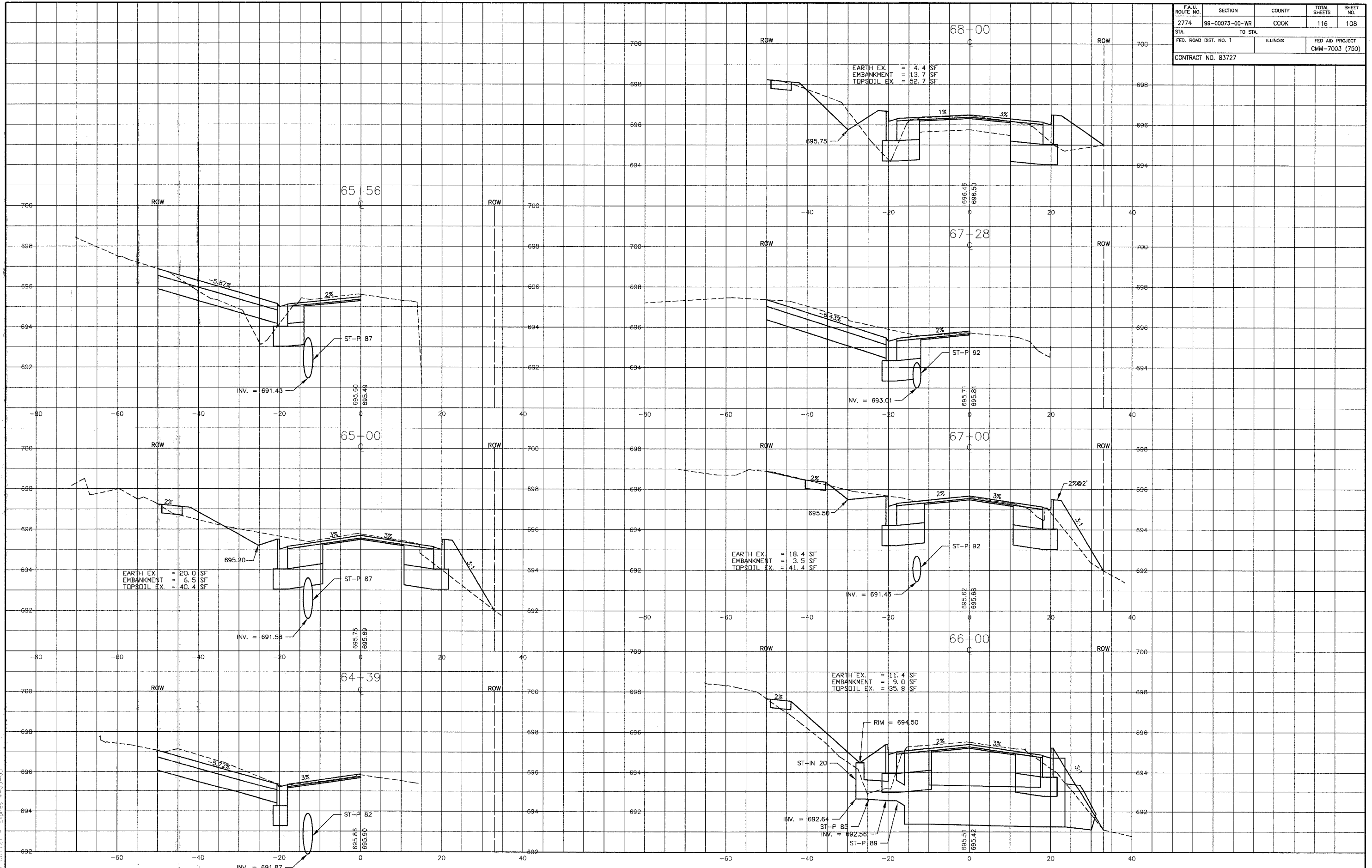
Baxter & Woodman
 Crystal Lake, Illinois 815.459.1880
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.3090
 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 815.233.5099
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 60+00 TO STA. 64+12

DESIGNED BY PAW	SCALE VERT: 1"=2'
DRAWN BY UKB	HORIZ: 1"=10'
CHECKED BY NJP	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 107 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	108
STA.	TO STA.	ILLINOIS	FED AID PROJECT	
FED. ROAD DIST. NO. 1			CMM-7003 (750)	
CONTRACT NO. 83727				



\DRAWING\020146\Drawn\OakPark_ILS.dwg
 4-29-06
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REV. NO.	DATE	DESCRIPTION
1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

CONSULTANTS

1" = 5' 0" 1" = 2' 3"

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

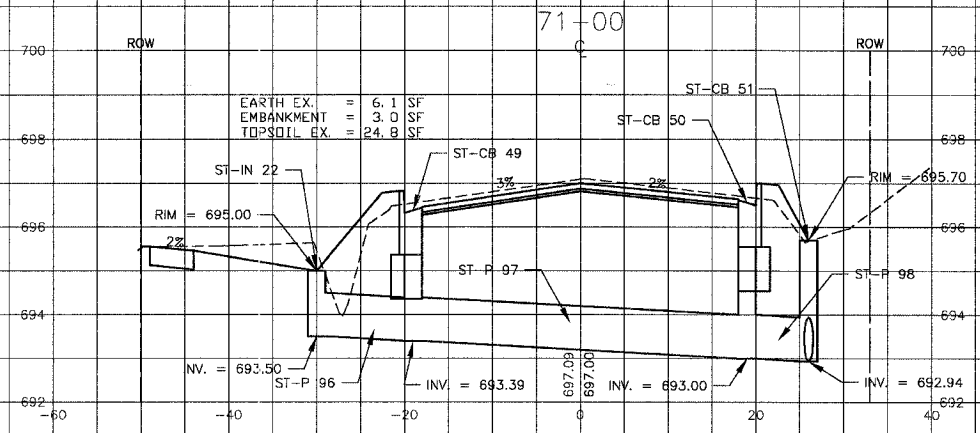
Baxter & Woodman
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.768.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 815.283.5089
 Rockford, Illinois 815.408.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

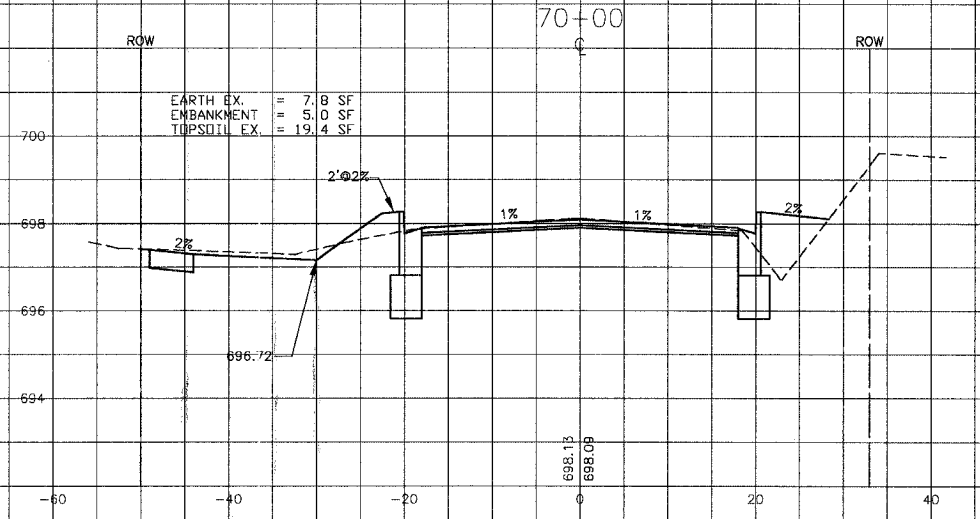
CROSS SECTIONS
OAK PARK AVENUE
STA. 64+39 TO STA. 68+00

DESIGNED BY	SCALE	VERT: 1"=2'
PAW	HORIZ: 1"=10'	
DRAWN BY	PROJECT NO.	020146
UKB	SHEET NO.	
CHECKED BY		
NJP		
DATE		
1-20-05		

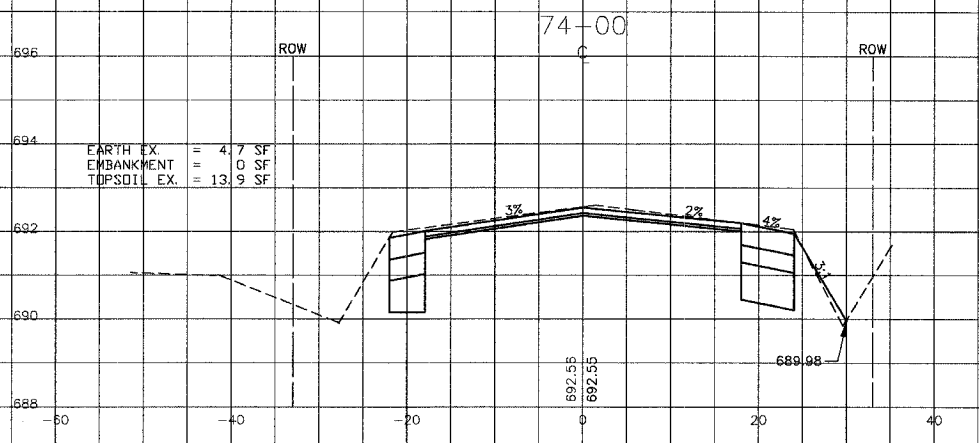
108 OF 116



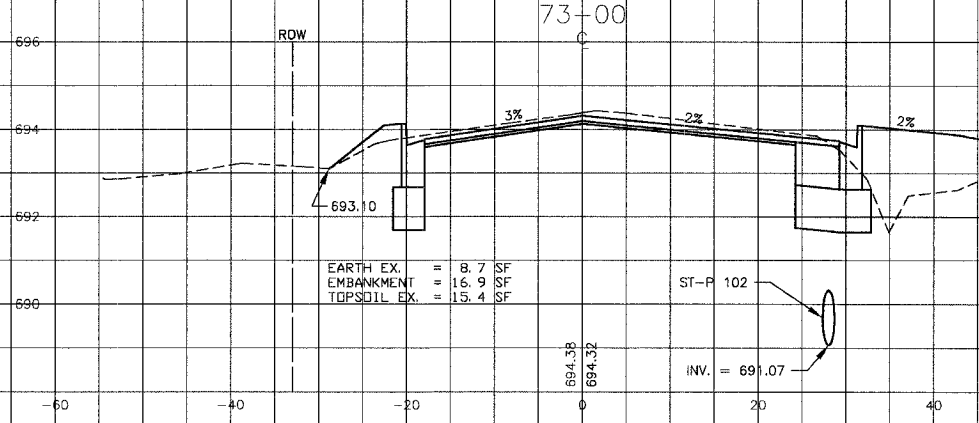
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 EMBANKMENT = 3.0 SF
 TOPSOIL EX. = 24.8 SF



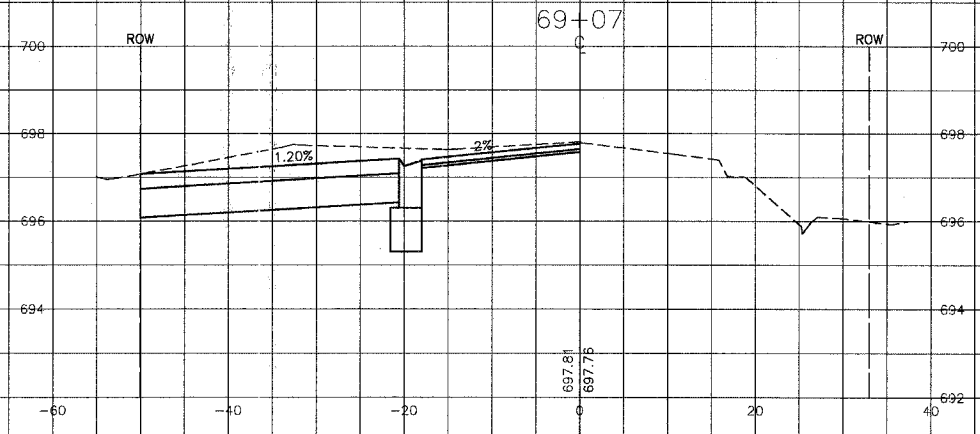
EARTH EX. = 7.8 SF
 EMBANKMENT = 5.0 SF
 TOPSOIL EX. = 19.4 SF



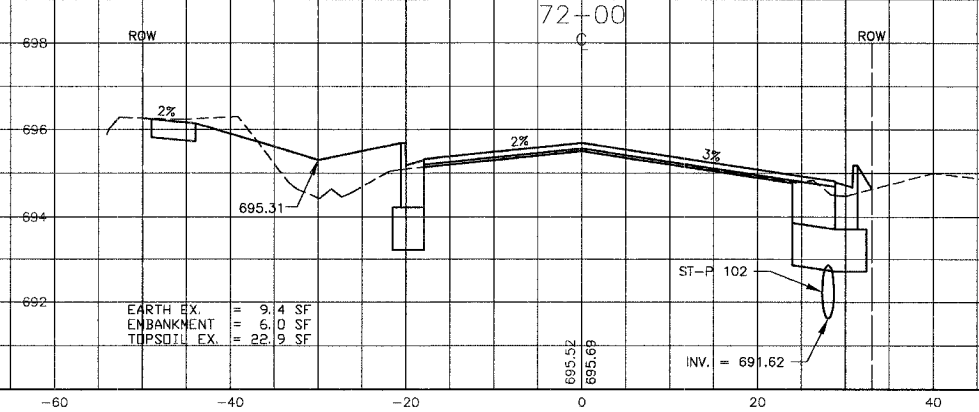
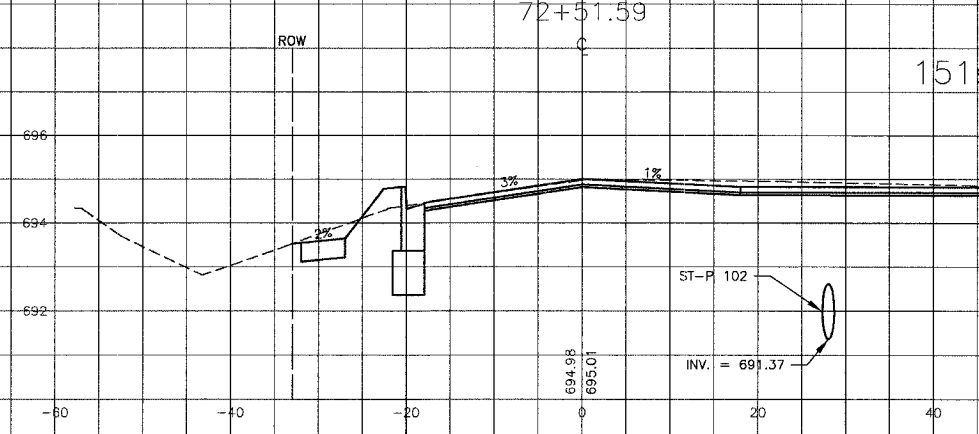
EARTH EX. = 4.7 SF
 EMBANKMENT = 0 SF
 TOPSOIL EX. = 13.9 SF



EARTH EX. = 8.7 SF
 EMBANKMENT = 16.9 SF
 TOPSOIL EX. = 15.4 SF



EARTH EX. = 44.6 SF
 EMBANKMENT = 6.9 SF
 TOPSOIL EX. = 7.6 SF



EARTH EX. = 9.4 SF
 EMBANKMENT = 5.0 SF
 TOPSOIL EX. = 22.9 SF

151st STREET

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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

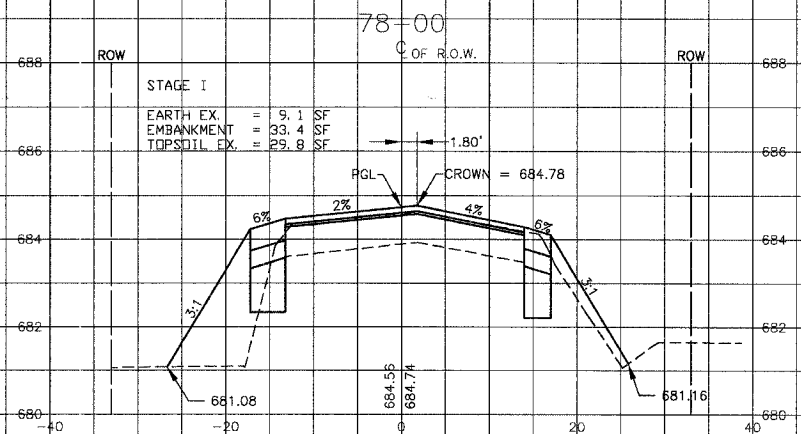
Baxter & Woodman
 Consulting Engineers
 Crystal Lake, Illinois 815.459.1200
 Burlington, Wisconsin 262.763.7934
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 815.783.5089
 Rockford, Illinois 815.489.1557
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

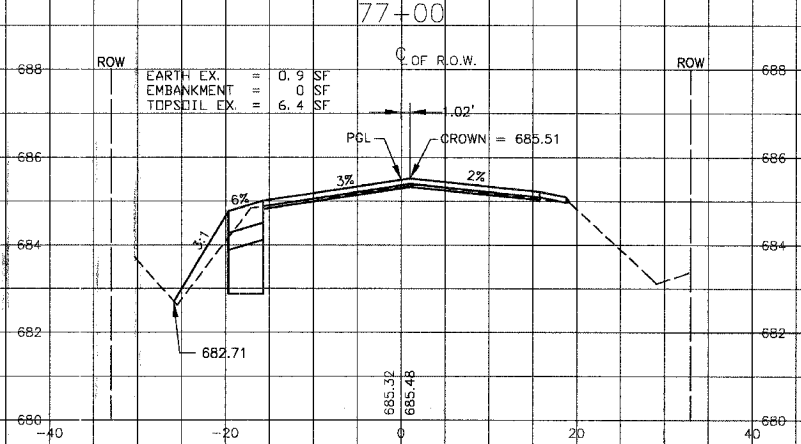
CROSS SECTIONS
OAK PARK AVENUE
STA. 69+00 TO STA. 74+00

DESIGNED BY PAW	SCALE VERT: 1"=2' HORIZ: 1"=10'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO. 109 OF 116
DATE 1-20-05	

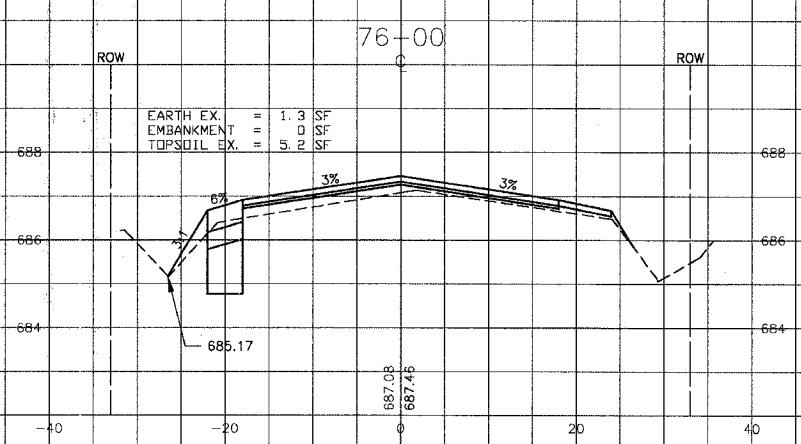
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	110
STA.	TO STA.		ILLINOIS	
FED. ROAD DIST. NO. 1			FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



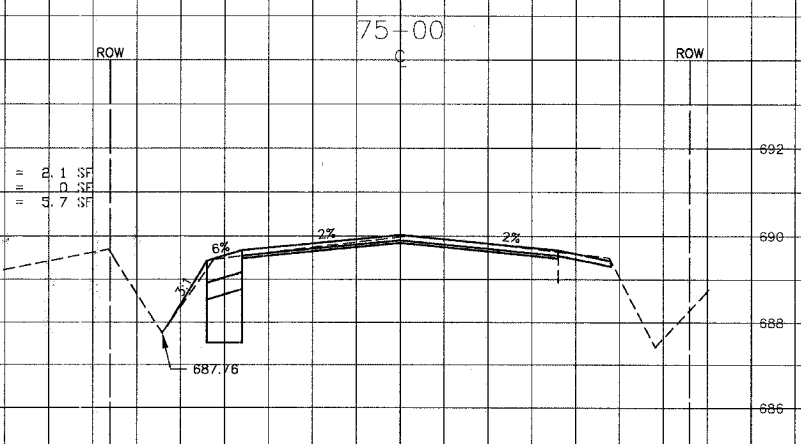
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 EARTH EX. = 9.1 SF
 EMBANKMENT = 33.4 SF
 TOPSOIL EX. = 29.8 SF



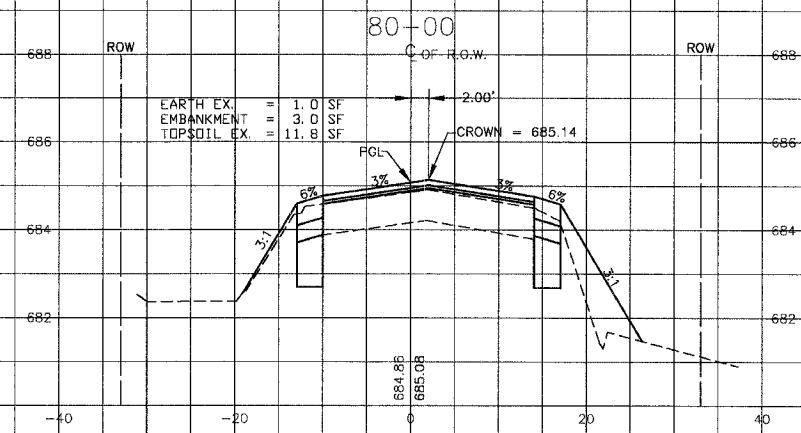
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 EMBANKMENT = 0 SF
 TOPSOIL EX. = 6.4 SF



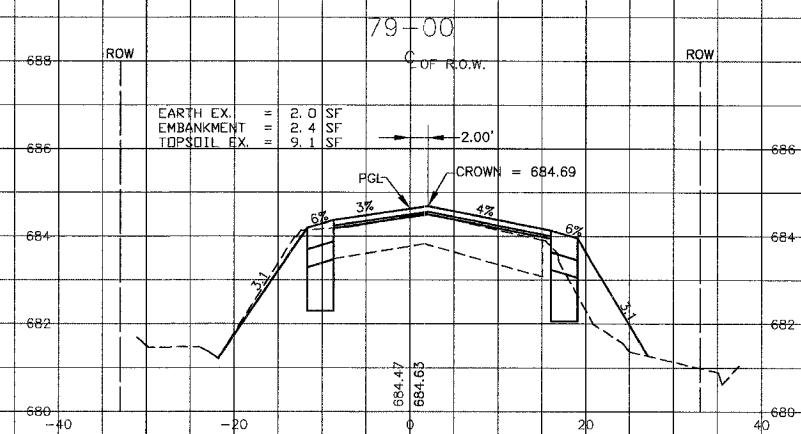
EARTH EX. = 1.3 SF
 EMBANKMENT = 0 SF
 TOPSOIL EX. = 5.8 SF



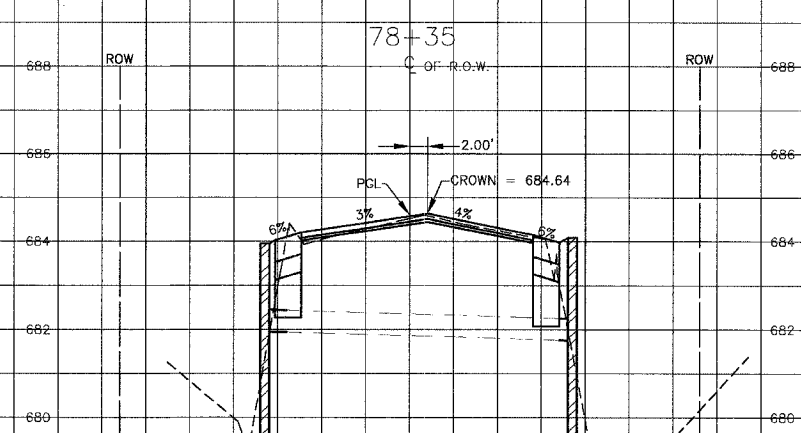
EARTH EX. = 2.1 SF
 EMBANKMENT = 0 SF
 TOPSOIL EX. = 5.7 SF



EARTH EX. = 1.0 SF
 EMBANKMENT = 3.0 SF
 TOPSOIL EX. = 11.8 SF



EARTH EX. = 2.0 SF
 EMBANKMENT = 2.4 SF
 TOPSOIL EX. = 9.1 SF



EARTH EX. = 2.1 SF
 EMBANKMENT = 0 SF
 TOPSOIL EX. = 5.7 SF

1/20/04/02/01/46/3/Drawn/CA/PA/MS/449
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	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

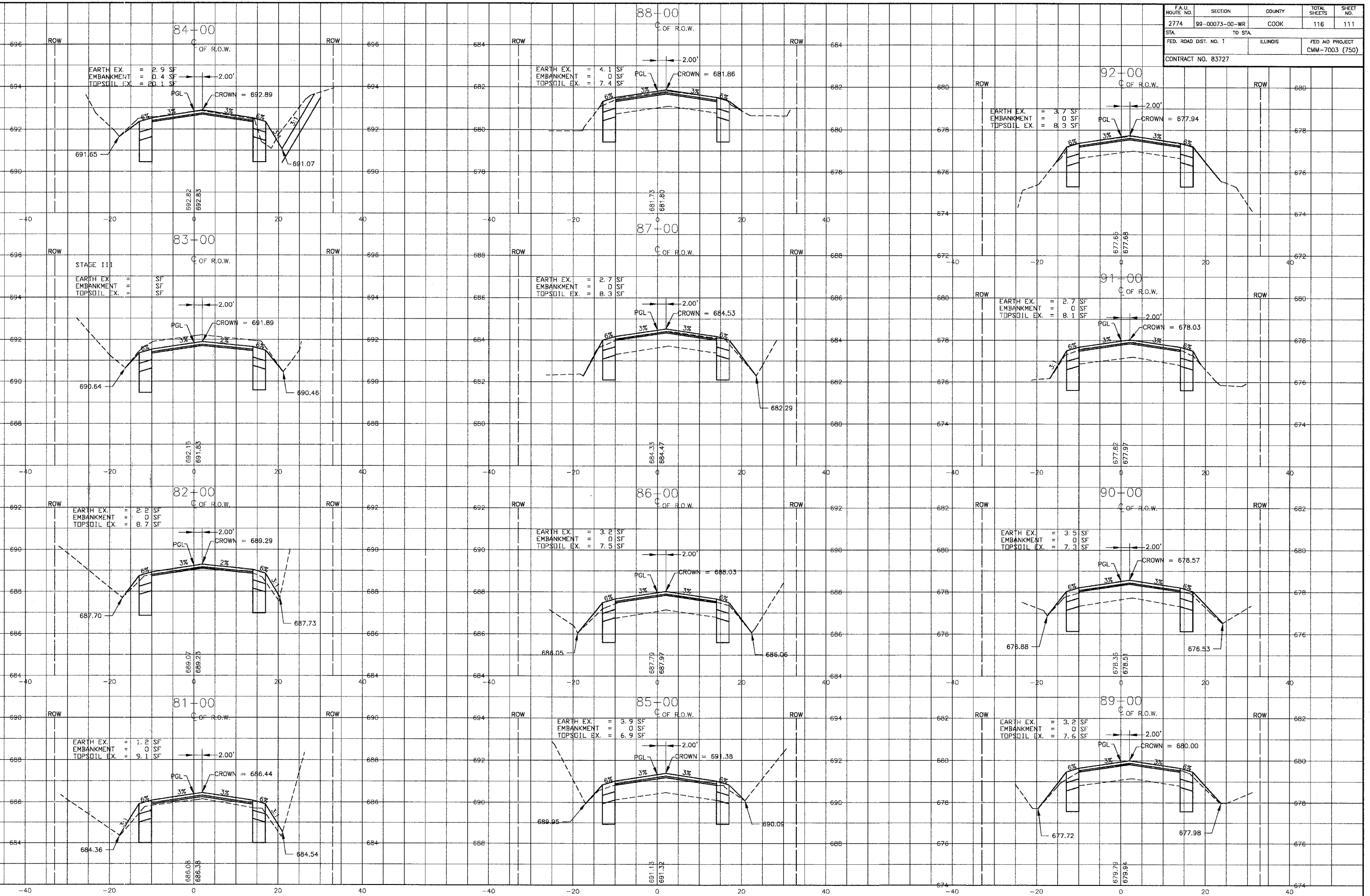
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

Baxter & Woodman
 Consulting Engineers
 Crystal Lake, Illinois 815.478.1260
 Burlington, Wisconsin 262.763.7831
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 847.283.5089
 Rockford, Illinois 815.488.1551
 Plainfield, Illinois 815.869.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 75+00 TO STA. 80+00

DESIGNED BY PAW	SCALE VERT: 1"=2' HORIZ: 1"=10'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	110 OF 116



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

X - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS
 1" = 5' 0" 1" = 2' 3"

BAKTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 815.233.6089
 Rockford, Illinois 815.499.1551
 Plainfield, Illinois 815.609.7425

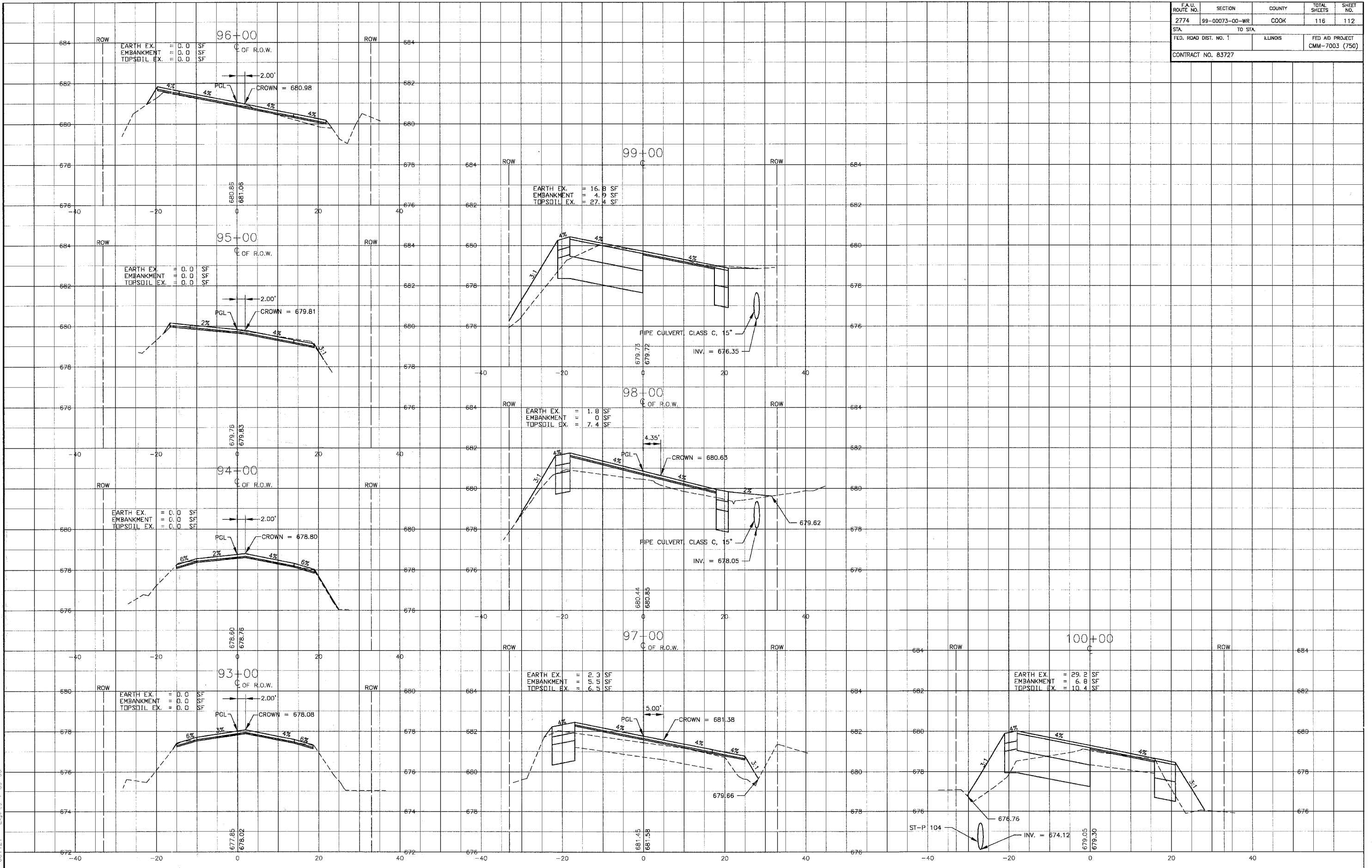
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 81+00 TO STA. 92+00

DESIGNED BY	SCALE	VERT: 1"=2'
PAW	HORIZ: 1"=10'	
DRAWN BY	PROJECT NO.	020146
UKB	SHEET NO.	
CHECKED BY		
NJP		
DATE		
1-20-05		

111 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	112
STA.	TO STA.	ILLINOIS	FED AID PROJECT	
FED. ROAD DIST. NO. 1			CMM-7003 (750)	
CONTRACT NO. 83727				



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

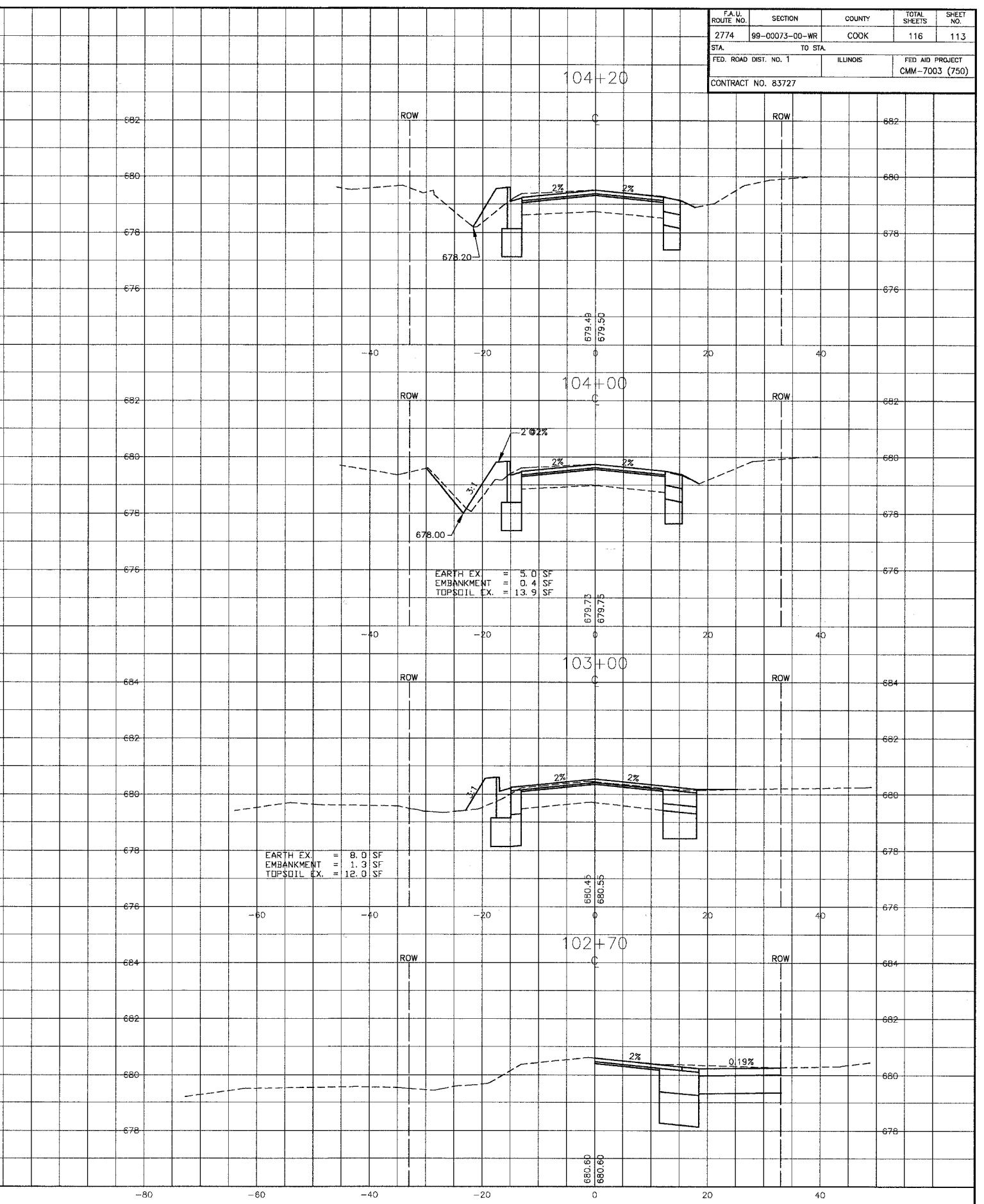
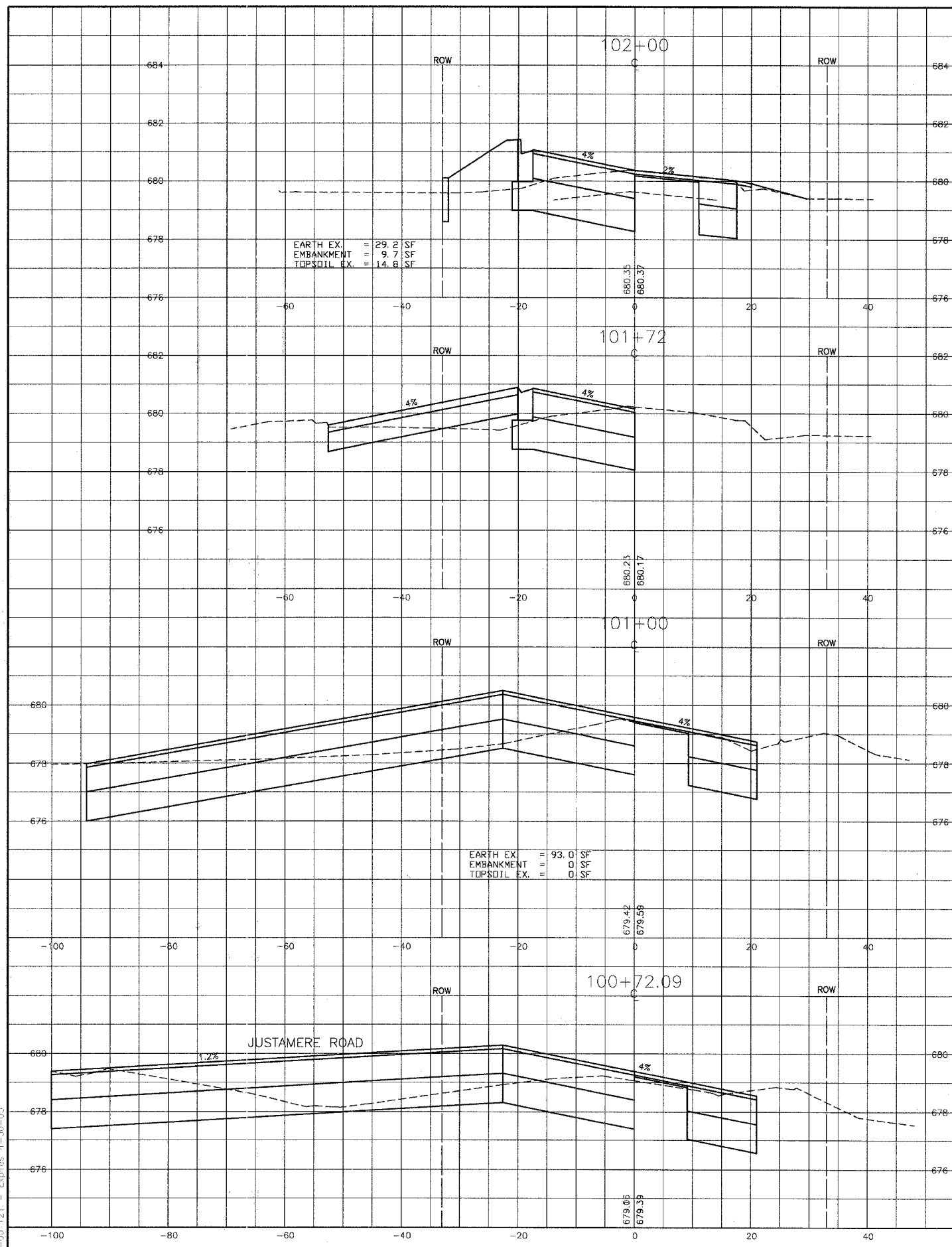
Baxter & Woodman
 Crystal Lake, Illinois 815.469.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 847.223.5088
 Rockford, Illinois 815.469.1551
 Plainfield, Illinois 815.609.7485

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
OAK PARK AVENUE
STA. 93+00 TO STA. 100+00

DESIGNED BY	SCALE VERT: 1"=2'
DRAWN BY	HORIZ: 1"=10'
CHECKED BY	PROJECT NO.
DATE	020146
	SHEET NO.
	112 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	113
STA.	TO STA.		FED. ROAD DIST. NO. 1	
	ILLINOIS		FED. AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

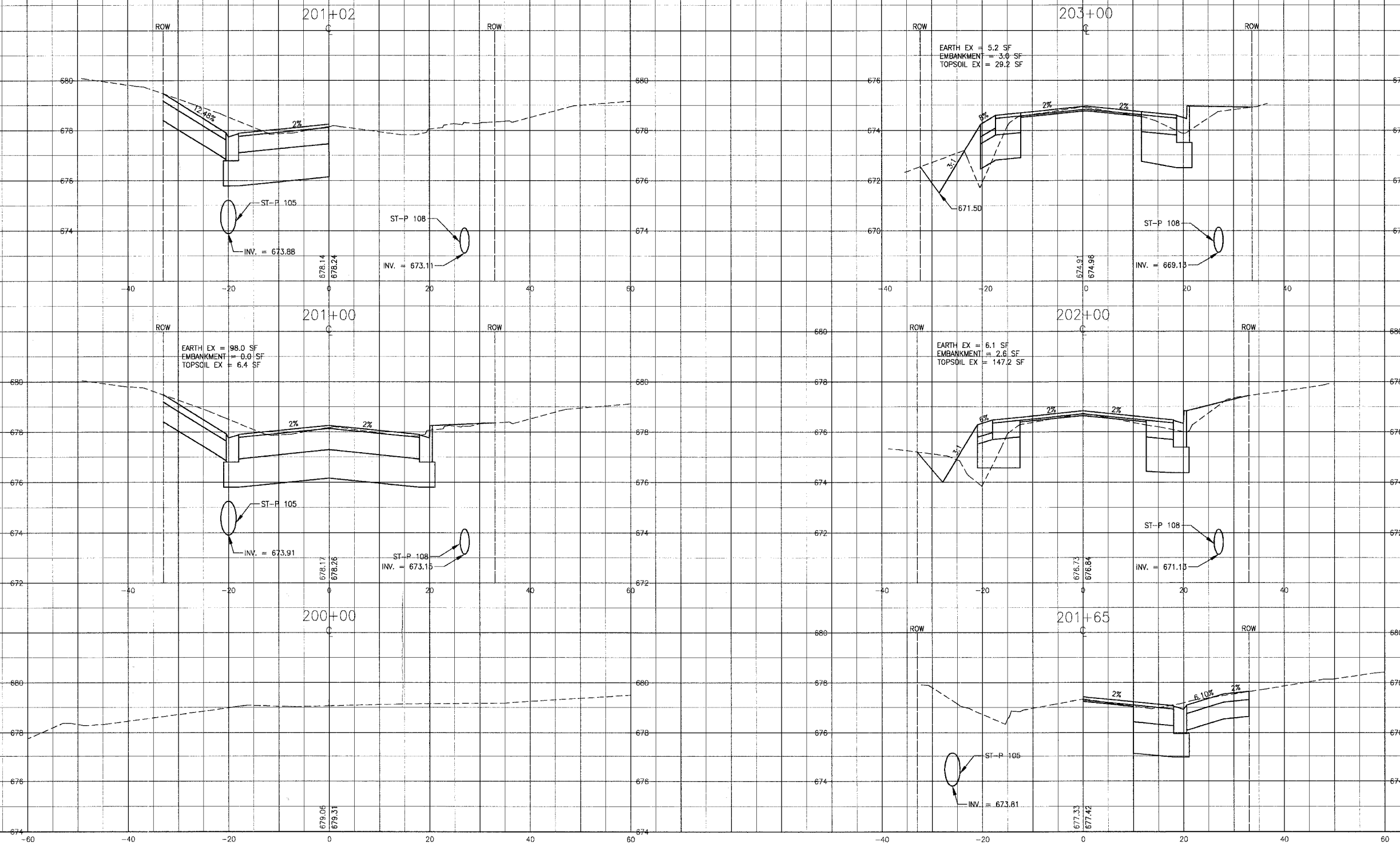
Baxter & Woodman
 Crystal Lake, Illinois 815.459.1200
 Burlington, Wisconsin 262.763.7931
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.2111
 Graylake, Illinois 847.223.5089
 Rockford, Illinois 815.499.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
147th STREET
STA. 100+72.09 TO STA. 104+20

DESIGNED BY PAW	SCALE VERT: 1"=2' HORIZ: 1"=10'
DRAWN BY UKB	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	113 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	114
STA.	TO STA.		FED AID PROJECT	
FED. ROAD DIST. NO. 1	ILLINOIS		CMM-7003 (750)	
CONTRACT NO. 83727				



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

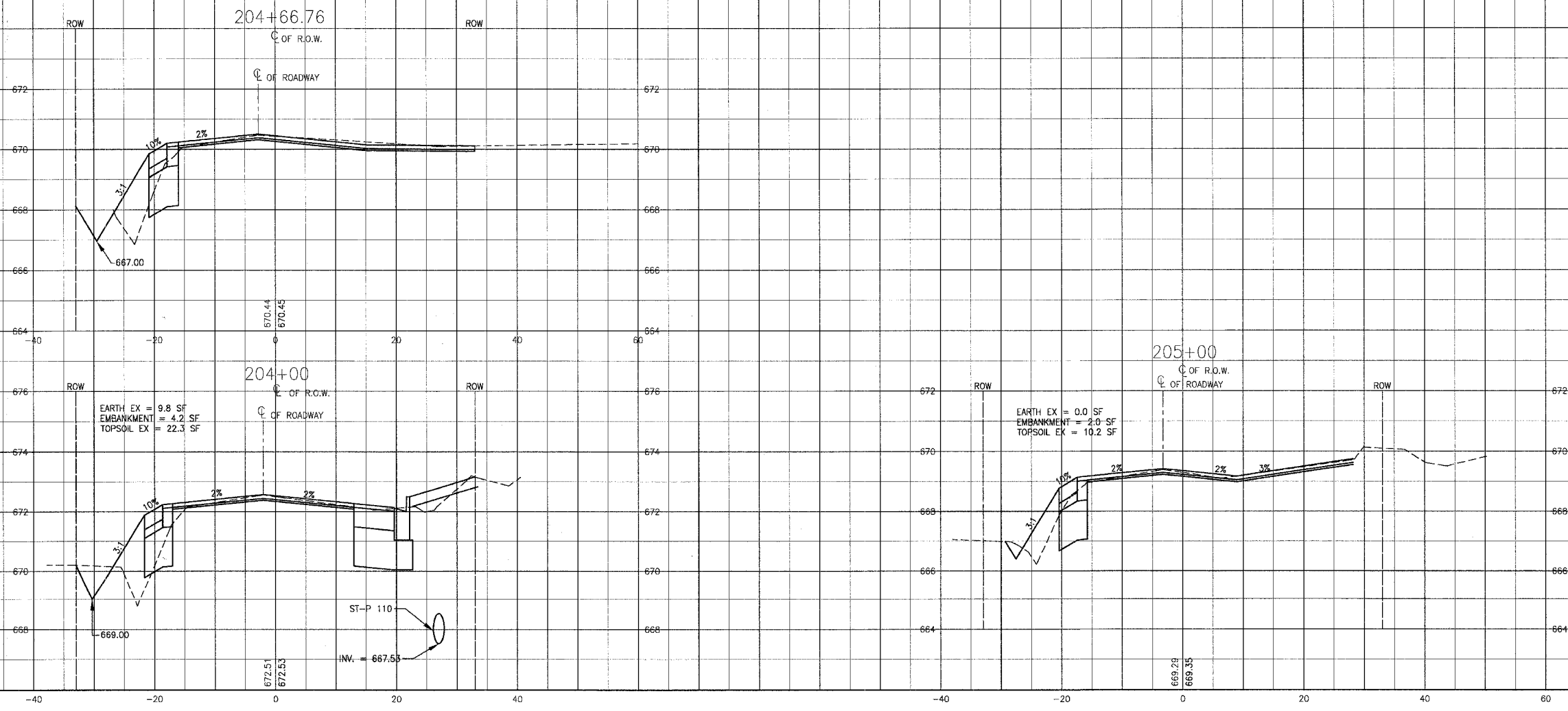
Baxter & Woodman
 Crystal Lake, Illinois 815.459.1300
 Burlington, Wisconsin 262.763.7854
 Mobern, Illinois 708.478.2080
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 815.223.5088
 Rockford, Illinois 815.499.1551
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
JUSTAMERE ROAD
STA. 200+00 TO STA. 203+00

DESIGNED BY	SCALE VERT: 1"=2'
PAW	HORIZ: 1"=10'
DRAWN BY	PROJECT NO.
UKR	020146
CHECKED BY	SHEET NO.
LDH	114 OF 116
DATE	1-20-05

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	89-00073-00-WR	COOK	116	115
STA.	TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS
				FED AID PROJECT CMM-7003 (750)
CONTRACT NO. 83727				



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CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER

WOODMAN
 Consulting Engineers

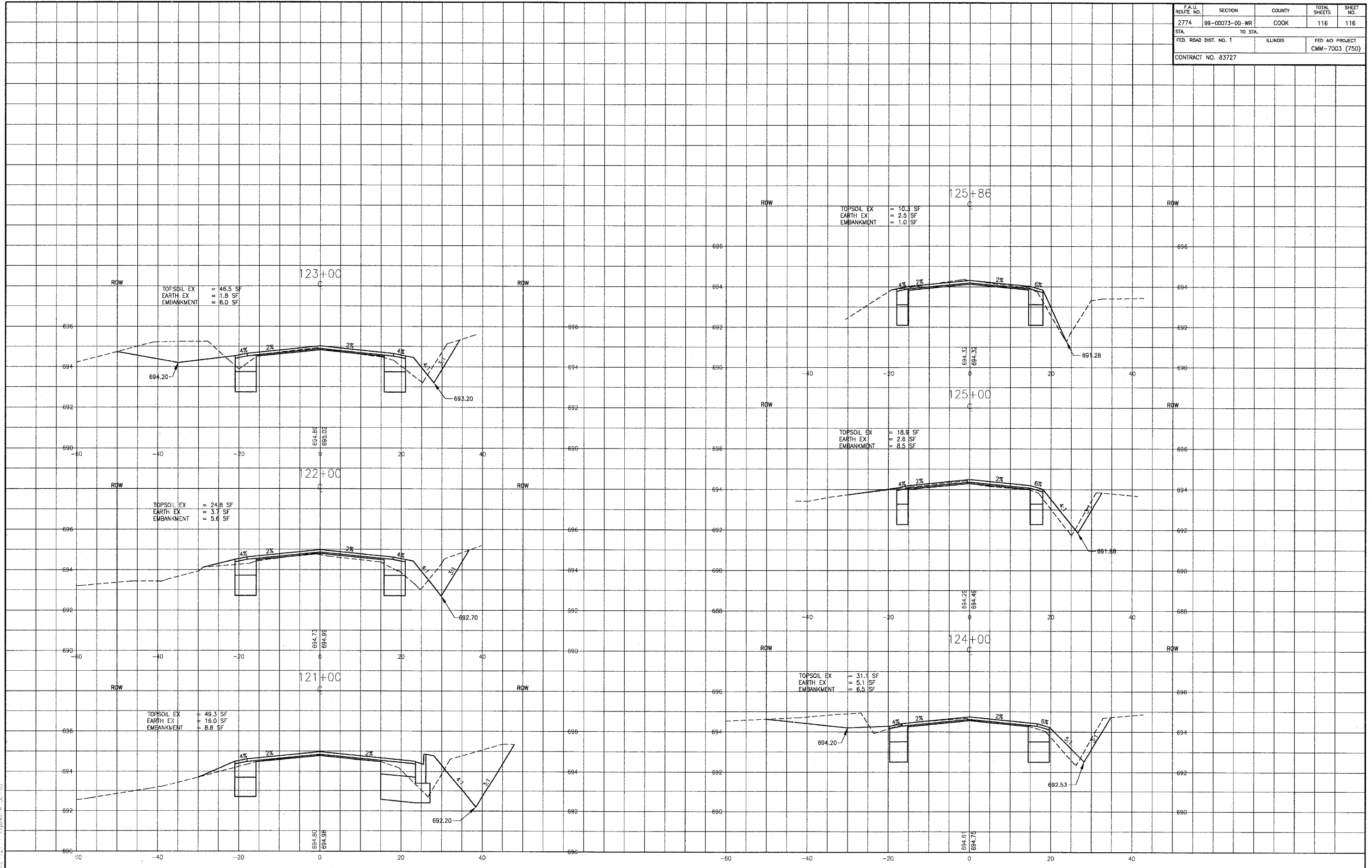
Baxter & Woodman
 Crystal Lake, Illinois 815.459.1360
 Burlington, Wisconsin 262.763.7894
 Mokena, Illinois 708.478.5090
 DeKalb, Illinois 815.787.3111
 Grayslake, Illinois 847.233.5088
 Rockford, Illinois 815.400.1551
 Plainfield, Illinois 815.608.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
JUSTAMERE ROAD
STA. 204+00 TO STA. 205+00

DESIGNED BY PAW	SCALE VERT: 1"=2'
DRAWN BY UKB	HORIZ: 1"=10'
CHECKED BY LDH	PROJECT NO. 020146
DATE 1-20-05	SHEET NO. 115 OF 116

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	116
STA.	TO STA.		FED. ROAD DIST. NO. 1	
	ILLINOIS		ILLINOIS	
CONTRACT NO. 83727			FED. AID PROJECT CMM-7003 (750)	



DRAWN BY: J. WOODMAN
 CHECKED BY: J. WOODMAN
 DATE: 4-28-06
 PROJECT NO.: 020146
 SHEET NO.: 116 OF 116

CONSULTANT'S	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS

REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

1" = 5' 0" 1" = 2" 3"

BAXTER WOODMAN
Consulting Engineers

Barter & Woodman
Crystal Lake, Illinois 815.489.1260
Burlington, Wisconsin 262.763.7854
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.787.3111
Glenview, Illinois 847.253.6068
Rockford, Illinois 815.489.1551
Moline, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

CROSS SECTIONS
151st STREET
STA. 120+50 TO STA. 125+86

DESIGNED BY	SCALE	VERT: 1"=2'
PAW	HORIZ: 1"=10'	
DRAWN BY	PROJECT NO.	020146
UKB	SHEET NO.	
CHECKED BY		
NJP		
DATE		
1-20-05		

116 OF 116