

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

SCALES PLAN - 1"=50'
PROFILE HORIZ. - 1"=50'
PROFILE VERT. - 1"=5'
CROSS SECTIONS HORIZ. - 1"=10'
CROSS SECTIONS VERT. - 1"=5'

F.A.U. ROUTE 2955
OAK PARK AVENUE RECONSTRUCTION
115TH STREET TO 111TH STREET
S.T.P. PROJECT NO.: M-8003-(599)
SECTION NO.: 02-00049-01-PV
VILLAGE OF WORTH
COOK COUNTY
C-91-271-06

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-01-PV	COOK	45	1
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

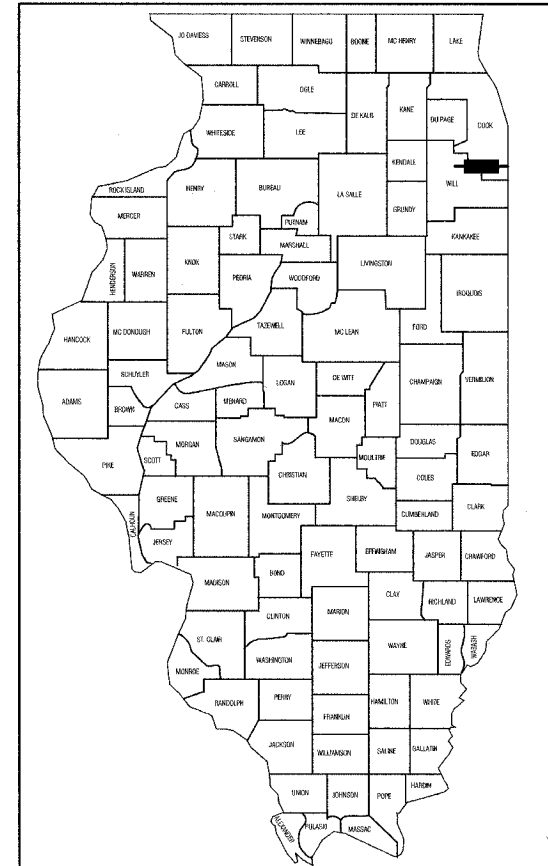
Contact 83819

INDEX OF SHEETS
SEE SHEET NO. 2

STATE STANDARDS
SEE SHEET NO. 2

DESIGN DESIGNATION - OAK PARK AVENUE ADT 3,150 (2025) - COLLECTOR - 0.50 (BIT-20)
PV=1,940 SU=40 MU=20

OAK PARK AVENUE	
2000 ADT -	2,000
2025 ADT -	3,150
POSTED SPEED LIMIT -	30 mph
DESIGN PERIOD -	20 YEARS
DESIGN SPEED LIMIT -	30 mph
STREET CLASSIFICATION -	CLASS II



LOCATION OF SECTION INDICATED THIS: -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED September 15, 2005
Edward S. King, Jr. LOCAL AGENCY OFFICIAL

PASSED Sept. 19, 2005
[Signature] DISTRICT ENGINEER OF LOCAL ROADS & STREETS

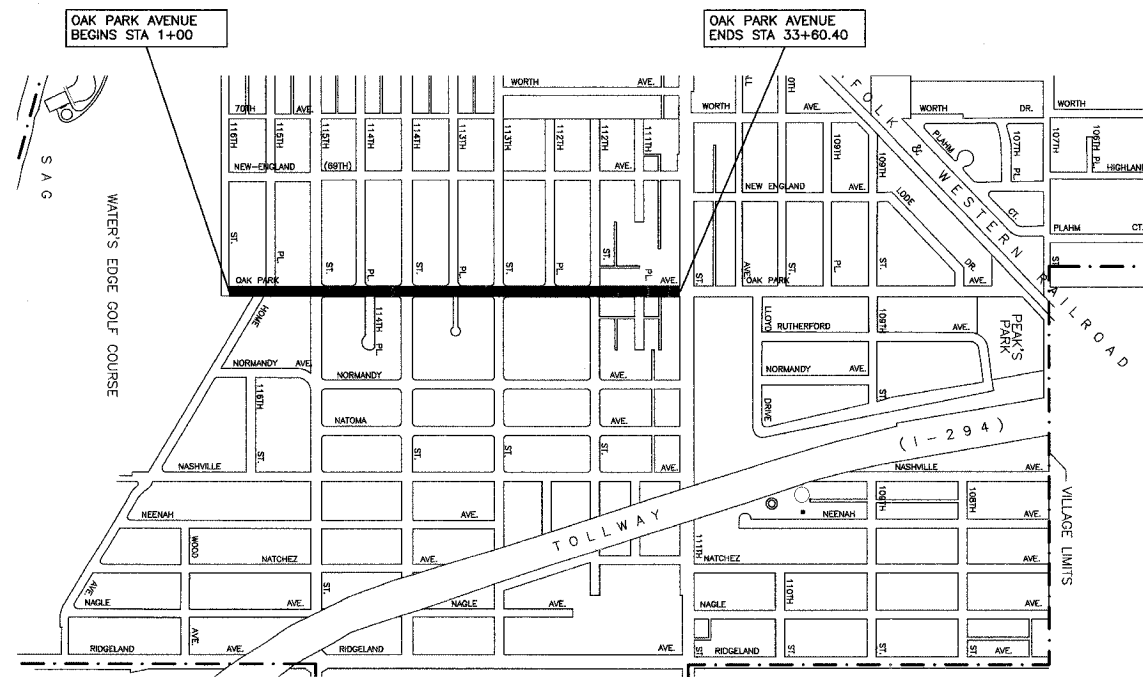
APPROVED September 19, 2005
Dina Okupnik DISTRICT ENGINEER

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

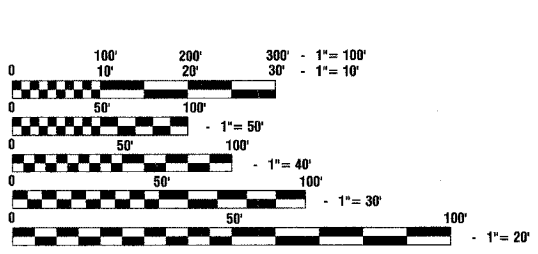
DESCRIPTION OF IMPROVEMENT
THIS IMPROVEMENT CONSISTS OF EARTH EXCAVATION, CONSTRUCTION OF STORM SEWERS AND DRAINAGE STRUCTURES, ROADWAY CONSTRUCTION, AND ALL INCIDENTAL WORK AS NECESSARY TO COMPLETE THE IMPROVEMENT SHOWN HEREIN AND AS DESCRIBED IN THE SPECIFICATIONS.

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:
[Signature]
9/15/05

02-051002
REGISTERED
PROFESSIONAL
ENGINEER
STATE OF ILLINOIS
LICENSE EXPIRES: 11/30/05



LOCATION MAP
GROSS LENGTH=3260.40 FEET=0.618 MILES
NET LENGTH=3260.40 FEET=0.618 MILES



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

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

CONTRACT NO. 83819

FEDERAL AID DESIGN ENGINEER: JESSICA MILLER 847-705-4487
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

F.A.D. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00048-00-PV	COOK	45	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Contract 83819

INDEX OF SHEETS

- 1. TITLE SHEET
- 2. INDEX OF SHEETS AND STATE STANDARDS
- 3. GENERAL NOTES
- 4.-6. SUMMARY OF QUANTITIES
- 7.-8. TYPICAL CROSS SECTIONS
- 9. DETOUR PLAN
- 10.-12. OAK PARK AVENUE PLAN AND PROFILE
- 13.-16. OAK PARK AVENUE DRAINAGE AND UTILITIES
- 17.-18. STRUCTURE AND PIPE SCHEDULES
- 19. WATER MAIN RELOCATION
- 20.-22. INTERSECTION DETAILS
- 23. LANDSCAPING, EROSION CONTROL, PAVEMENT MARKING, AND SIGNING
- 24. HEADWALL DETAILS
- 25.-26. DETAILS
- 27. DISTRICT 1 DETAILS
- 28.-45. CROSS SECTIONS

STATE STANDARDS

- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-02 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-04 CURB RAMPS FOR SIDEWALKS
- 602001 CATCH BASIN, TYPE A
- 602011 CATCH BASIN, TYPE C
- 602301 INLET, TYPE A
- 602401 MANHOLE, TYPE A
- 602501 VALVE VAULT, TYPE A
- 602601 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701 CAST IRON STEPS
- 604001-02 FRAME AND LIDS, TYPE 1
- 604036-01 GRATE, TYPE 8
- 604051-01 FRAME AND GRATE, TYPE 11
- 604091-01 FRAME AND GRATE, TYPE 24
- 606001-02 CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB & GUTTER
- 701301-02 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
- 701501-03 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 702001-05 TRAFFIC CONTROL DEVICES
- 720001 SIGN PANEL MOUNTING DETAILS
- 720006 SIGN PANEL ERECTION DETAILS
- 720011 METAL POSTS FOR SIGNS, MARKERS, AND DELINEATORS
- 729001 APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-01 TYPICAL PAVEMENT MARKINGS
- 781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 886001 DETECTOR LOOP INSTALLATIONS
- 886006 TYPICAL LAYOUT FOR DETECTION LOOPS

ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-6700 FAX (708) 331-3826 © COPYRIGHT 2004 ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128		REVISIONS	
No.	Date	Remarks	
1	9-7-05	REL	
OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET INDEX OF SHEETS AND STATE STANDARDS			
WORTH,		ILLINOIS	
Drawn by: EC	Date: 3/31/04		
Checked by: JMN	Scale: NA		
Sheet: of	Project No: 02-162		

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00048-00-PV	COOK	45	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Contract 83819

GENERAL NOTES

- 1 ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- 2 ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES WHICH ARE NOT SPECIFICALLY INDICATED IN THE PLANS SHALL BE PERFORMED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3 DRAINAGE STRUCTURE ELEVATIONS: GRADES OF SEWER LINES WERE DETERMINED FROM AVAILABLE PLANS AND SURVEYS. ACCORDINGLY, AS DIRECTED BY THE ENGINEER, THE INVERTS OF THE PROPOSED DRAINAGE WILL BE REVISED TO MEET EXISTING FIELD CONDITIONS.
- 4 THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR AT THE INDICATED ELEVATIONS SHOWN ON THE PLANS. ALL RIM ELEVATIONS OF STRUCTURES IN THE PROPOSED CURB LINE ARE GIVEN TO THE EDGE OF PAVEMENT. ALL OTHER RIM ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURES.
- 5 HALF TRAPS ARE TO BE OMITTED IN CATCH BASINS.
- 6 FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
- 7 WHEN, IN THE CONSTRUCTION OPERATION, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH DAY BY THE CONTRACTOR AT HIS EXPENSE. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 8 WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS & SEWERS AND DISCHARGE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY SEWER CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 9 THE CAST IRON FRAMES AND COVERS OF FILLED, ABANDONED OR REMOVED MANHOLES, INLETS AND CATCH BASINS OR THOSE FRAMES AND COVERS UPON STRUCTURES RECEIVING NEW FRAMES AND COVERS SHALL BE STOCKPILED WITHIN THE RIGHT-OF-WAY, AS DIRECTED BY THE ENGINEER, AND PICKED UP BY THE COMMUNITY.
- 10 THE APPROXIMATE LOCATION OF KNOWN PUBLIC UTILITIES ARE SHOWN ON THE PLANS. HOWEVER, THE DEPARTMENT DOES NOT GUARANTEE ITS ACCURACY. PRIOR TO COMMENCING OPERATIONS ON THE PROJECT WHICH MAY IN ANY WAY CREATE THE POSSIBILITY OF INVOLVEMENT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL CONTACT THE FIRM (OR COMMUNITY) INVOLVED. ADJUSTMENT OF ALL PUBLIC UTILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT WILL BE DONE BY THE RESPECTIVE OWNERS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCE CAUSED BY THESE ADJUSTMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATION BEFORE STARTING CONSTRUCTION OPERATIONS.
- 11 ALL TRENCHES WITHIN 2 FEET OF PROPOSED PAVEMENT, DRIVEWAYS, AND SIDEWALKS SHALL BE BACKFILLED WITH TRENCH BACKFILL ONLY.
- 12 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 OR B-6.24 SHALL BE INSTALLED WITH A THICKNESS EQUAL TO NINE AND ONE HALF INCHES (9 1/2").
- 13 THE CONTRACTOR SHALL PROTECT ALL TREES WITHIN AND ADJACENT TO THE CONSTRUCTION SITE DURING THE CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS IN ACCORDANCE WITH SECTION 201 OF THE STANDARD SPECIFICATIONS. THOSE TREES TO BE REMOVED AS SHOWN IN THE PLANS SHALL BE DONE IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS.
- 14 BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).
- 15 THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 16 THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE.
- 17 BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED. (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL).
- 18 ALL STORM SEWERS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED WITH RUBBER GASKETS IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR STORM SEWERS AS SPECIFIED.
- 19 THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4150 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK. THE CONTRACTOR SHALL ALSO CONTACT ROBINSON ENGINEERING (708) 331-6700 AND THE VILLAGE OF WORTH (708) 448-4256, A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 20 ALL BITUMINOUS PAVING SHALL FOLLOW DESIGNATED DRIVING LANES AS SHOWN IN STRIPING DETAILS. NO LONGITUDINAL PAVING JOINT OR SEAMS ARE ALLOWED WITHIN THE DRIVING LANES. ALL LONGITUDINAL PAVING JOINTS OR SEAMS WILL BE BETWEEN THE DRIVING LANES.
- 21 POROUS GRANULAR EMBANKMENT (PGE) SUBGRADE HAS BEEN PROVIDED FOR LOCATIONS WHERE SOILS TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL). IF UNSTABLE AND/OR UNSUITABLE MATERIALS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- 22 ALL PAVEMENT, CURB AND SIDEWALK REMOVALS SHALL BE MADE BY MEANS OF STRAIGHT SAW CUT JOINT. THE COST FOR SAW CUTTING SHALL BE INCIDENTAL TO THE CONTRACT.
- 23 CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR TRAFFIC CONTROL AND PROTECTION IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS ADOPTED JANUARY 1, 2002, THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 24 THE CONTRACTOR SHALL MAKE EVERY ATTEMPT NOT TO DAMAGE EXISTING TREES.
- 25 10' TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER OR TO TAPER FROM 6" TO 0", UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
- 26 ALL STORM SEWERS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STATE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE A.A.S.H.T.O. DESIGNATION M170 (A.S.T.M. DESIGNATION C76), WITH A MINIMUM OF CLASS III.
- 27 THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS THROUGHOUT THE RECONSTRUCTION LIMITS AT ALL TIMES. IF DRIVEWAY ACCESS MUST BE RESTRICTED, THE CONTRACTOR SHALL NOTIFY THE RESIDENT IN WRITING 24 HOURS IN ADVANCE.
- 28 BITUMINOUS SURFACE COURSE HAS BEEN CALCULATED ON THE BASIS OF 112 LB PER INCH THICKNESS PER SQUARE YARD.
- 29 DETECTABLE WARNINGS SHALL BE INSTALLED PER HIGHWAY STANDARD 424001 AT ALL STREET CROSSINGS.

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© COPYRIGHT 2004 ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128		No.	Date
OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET GENERAL NOTES		Remarks	
WORTH, ILLINOIS			
Drawn by: EC	Date: 3/31/04		
Checked by: JMN	Scale: NA		
Sheet of	Project No. 02-162		

FAU. RFL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Contract 83819

SUMMARY OF QUANTITIES					PAVEMENT	SIDEWALKS	MARKINGS	SIGNS	LANDSCAPE	SIGNALS	TRAINING		
S.P. CODE NO.	PAY ITEM	UNIT	QUAN	CONSTRUCTION TYPE CODE									
				I000	SFTY-1B	SFTY-1D	Y002-1C	Y003	Y031	Y080			
* 20200410	EARTH EXCAVATION (SPECIAL)	CU YD	8097	8097									
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100	100									
20201550	SUB-BASE GRANULAR MATERIAL, TYPE B	CU YD	1171	1171									
* 20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	100	100									
20800150	TRENCH BACKFILL	CU YD	3454	3454									
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	10518						10518				
* 21400100	GRADING AND SHAPING DITCHES	FOOT	300	300									
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	130						130				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	130						130				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	130						130				
25200110	SODDING, SALT TOLERANT	SQ YD	10518						10518				
28000300	TEMPORARY DITCH CHECKS	EACH	1	1									
28000400	PERIMETER EROSION BARRIER	FOOT	1370	1370									
* 28000510	INLET FILTERS	EACH	67	67									
28100107	STONE RIPRAP, CLASS A4	SQ YD	12	12									
28200200	FILTER FABRIC	SQ YD	12	12									
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	428	428									
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1572	1572									
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	379	379									
42001300	PROTECTIVE COAT	SQ YD	4259	4259									
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	22858		22858								
44000100	PAVEMENT REMOVAL	SQ YD	9233	9233									
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1909	1909									
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	577	577									
44000600	SIDEWALK REMOVAL	SQ FT	4389	4389									
* 44212899	PAVEMENT PATCHING (FULL DEPTH)	SQ YD	638	638									
* 50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1									
* 50105200	REMOVE EXISTING CULVERTS	EACH	43	43									
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	FOOT	102	102									
55020300	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 36"	FOOT	374	374									
55021600	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 12"	FOOT	1112	1112									
55021700	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 15"	FOOT	479	479									
55021800	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 18"	FOOT	156	156									
55022000	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 24"	FOOT	480	480									
55022200	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 30"	FOOT	413	413									
55022400	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 36"	FOOT	537	537									
55024100	STORM SEWERS, TYPE 3, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 24"	FOOT	335	335									
55024300	STORM SEWERS, TYPE 3, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 30"	FOOT	475	475									
55100500	STORM SEWER REMOVAL 12"	FOOT	165	165									
55100700	STORM SEWER REMOVAL 15"	FOOT	403	403									
55101200	STORM SEWER REMOVAL 24"	FOOT	495	495									
△ * 56103000	DUCTILE IRON WATER MAIN 6"	FOOT	95	95									
△ * 56103100	DUCTILE IRON WATER MAIN 8"	FOOT	60	60									
△ * 56103300	DUCTILE IRON WATER MAIN 12"	FOOT	335	335									

* - INDICATES SPECIAL PROVISIONS

△ - SPECIALTY ITEM

ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-6700			REVISIONS <table border="1"> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> <tr> <td>1</td> <td>8-23-04</td> <td>PS</td> </tr> <tr> <td>2</td> <td>9-7-05</td> <td>REL</td> </tr> </table>			No.	Date	Remarks	1	8-23-04	PS	2	9-7-05	REL
No.	Date	Remarks												
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OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET SUMMARY OF QUANTITIES														
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Drawn by:	EC	Date:	3/31/04											
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FAU. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00048-00-PV	COOK	45	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Contract 83819

SUMMARY OF QUANTITIES					PAVEMENT	SIDEWALKS	MARKINGS	SIGNS	LANDSCAPE	SIGNALS	TRAINING		
S.P.	CODE NO.	PAY ITEM	UNIT	QUAN	CONSTRUCTION TYPE CODE								
					1000	SFTY-1B	SFTY-1D	Y002-1C	Y003	Y031	Y080		
Δ *	56200200	WATER SERVICE LINE 3/4"	FOOT	1020	1020								
Δ *	56201100	WATER SERVICE LINE 3"	FOOT	80	80								
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2								
	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	3	3								
	60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1								
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	14	14								
	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	5	5								
	60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	1	1								
	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	5	5								
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3								
	60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1								
	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1								
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5								
	60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	4	4								
	60222240	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3	3								
	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1								
*	60224600	RESTRICTED DEPTH MANHOLES, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1								
*	60225400	RESTRICTED DEPTH MANHOLES, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3								
*	60225924	RESTRICTED DEPTH MANHOLES, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1								
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	2	2								
	60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	4	4								
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	8	8								
*	60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2								
*	60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2								
	60255500	MANHOLES TO BE ADJUSTED	EACH	1	1								
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	4	4								
	60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1								
*	60266910	VALVE BOXES TO BE REMOVED	EACH	1	1								
	60500040	REMOVING MANHOLES	EACH	3	3								
	60500050	REMOVING CATCH BASINS	EACH	10	10								
	60500205	FILLING CATCH BASINS	EACH	2	2								
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	458	458								
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	4852	4852								
	60618800	CONCRETE MEDIAN, TYPE SB	SQ FT	1055	1055								
	63301210	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	19	19								
*	70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1								
	72000100	SIGN PANEL - TYPE 1	SQ FT	16.5				16.5					
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	12				12					
	72900100	METAL POST - TYPE A	FOOT	38				38					
	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1				1					
Δ	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	40				40					
Δ	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2626				2626					
Δ	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	157				157					
Δ	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	300				300					
Δ	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	211				211					
Δ *	88600600	DETECTOR LOOP REPLACEMENT	FOOT	72						72			
*	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	3436	3436								
*	XX000479	WATER MAIN REMOVAL 6 INCH	FOOT	80	80								
Δ *	XX000679	CUT AND CAP EXISTING WATER MAIN	EACH	3	3								

* - INDICATES SPECIAL PROVISIONS Δ - SPECIALTY ITEM

ROBINSON ENGINEERING, LTD.
CONSULTING REGISTERED PROFESSIONAL ENGINEERS
AND PROFESSIONAL LAND SURVEYORS
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(708) 531-6700 FAX (708) 531-3626
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ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128

OAK PARK AVENUE RECONSTRUCTION
115TH STREET TO 111TH STREET
SUMMARY OF QUANTITIES

WORTH, ILLINOIS
Drawn by: EC Date: 3/31/04
Checked by: JMN Scale: NA
Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8-23-04	PS
2	9-7-05	REL

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Contract 83819

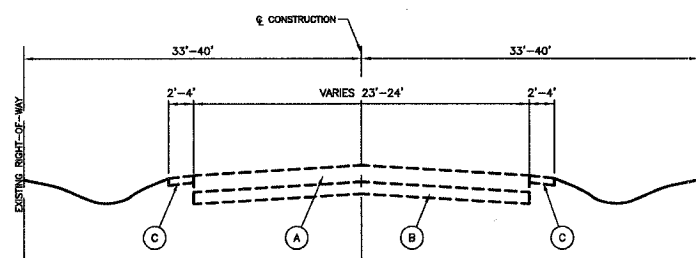
SUMMARY OF QUANTITIES					PAVEMENT	SIDEWALKS	MARKINGS	SIGNS	LANDSCAPE	SIGNALS	TRAINING		
S.P. CODE NO.	PAY ITEM	UNIT	QUAN	CONSTRUCTION TYPE CODE									
				1000	SFTY-1B	SFTY-1D	Y002-1C	Y003	Y031	Y080			
* XX005206	EXPLORATORY EXCAVATION	FOOT	200	200									
* X0301335	WATER MAIN REMOVAL 8"	FOOT	40	40									
* X0320772	WATER MAIN REMOVAL 12"	FOOT	200	200									
* X0322033	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	206	206									
* X0322089	STORM SEWER (WATER MAIN REQUIREMENTS) 36 INCH	FOOT	51	51									
* X0322125	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	FOOT	47	47									
* X0322127	STORM SEWER (WATER MAIN REQUIREMENTS) 30 INCH	FOOT	10	10									
* X0504200	CONCRETE HEADWALL	EACH	1	1									
* X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	1760	1760									
* X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	6330	6330									
* X3550100	BITUMINOUS BASE COURSE SUPERPAVE 4"	SQ YD	1740	1740									
* 42400800	DETECTABLE WARNINGS	SQ FT	736			736							
67100100	MOBILIZATION	LSUM	1										
Z0076600	TRAINEES	Hour	500							500			

* - INDICATES SPECIAL PROVISIONS

ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-6700 FAX (708) 331-3628 © COPYRIGHT 2004 ILLINOIS DESIGN FIRM REGISTRATION NO. 194001128			REVISIONS <table border="1"> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> <tr> <td>1</td> <td>8-23-04</td> <td>PS</td> </tr> <tr> <td>2</td> <td>9-7-05</td> <td>REL</td> </tr> </table>			No.	Date	Remarks	1	8-23-04	PS	2	9-7-05	REL
No.	Date	Remarks												
1	8-23-04	PS												
2	9-7-05	REL												
OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET SUMMARY OF QUANTITIES WORTH, ILLINOIS														
Drawn by: EC	Date: 3/31/04													
Checked by: JMN	Scale: NA													
Sheet of	Project No. 02-162													

FAXL. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Contract 83819



OAK PARK AVENUE
EXISTING TYPICAL CROSS SECTION
STA 1+00 TO STA 27+59

EXISTING LEGEND

- (A) BITUMINOUS PAVEMENT - 6" TO 8 1/2"
- (B) STONE BASE COURSE - 4" TO 6"
- (C) AGGREGATE SHOULDER
- (D) TYPE B-6.24 CURB AND GUTTER
- (E) CONCRETE SIDEWALK

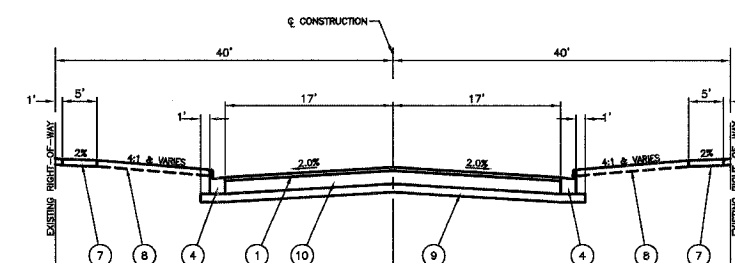
PROPOSED LEGEND

- (1) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 - 2"
- (2) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50 - 7 1/2"
- (3) AGGREGATE SUBGRADE - 12"
- (4) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24
- (5) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
- (6) CONCRETE MEDIAN, TYPE SB
- (7) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (8) TOPSOIL FURNISH AND PLACE, 4" - SODDING, SALT TOLERANT
- (9) SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- (10) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50 - 8"

BITUMINOUS MIXTURE REQUIREMENTS

ITEM	GYRATION	AC TYPE	VOIDS	RAP %	THICKNESS	LOCATION
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	50	PG 64-22	4%	15%	2"	OAK PARK AVE./ DRIVEWAYS
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	50	PG 58-22	4%	25%	7 1/2" & 8"	OAK PARK AVE.
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	70	PG 64-22	4%	15%	6"	PATCHING
BITUMINOUS BASE COURSE SUPERPAVE	50	PG 58-22	2%	50%	4"	DRIVEWAYS

THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE IS 112 LBS/SQYD/IN.



OAK PARK AVENUE
PROPOSED TYPICAL CROSS SECTION
STA 7+48 TO STA 27+50

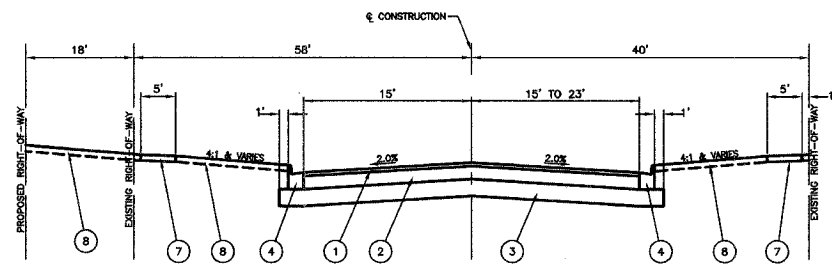
ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-6700 FAX (708) 331-3626 © COPYRIGHT 2004 ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128		REVISIONS <table border="1"> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> <tr> <td>1</td> <td>8-23-04</td> <td>PS</td> </tr> <tr> <td>2</td> <td>9-7-05</td> <td>REL</td> </tr> </table>		No.	Date	Remarks	1	8-23-04	PS	2	9-7-05	REL
No.	Date	Remarks										
1	8-23-04	PS										
2	9-7-05	REL										
OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET TYPICAL CROSS SECTIONS WORTH ILLINOIS		<table border="1"> <tr> <td>Drawn by: EC/EDG</td> <td>Date: 3/31/04</td> </tr> <tr> <td>Checked by: JMN</td> <td>Scale: N/A</td> </tr> <tr> <td>Sheet: of</td> <td>Project No. 02-162</td> </tr> </table>		Drawn by: EC/EDG	Date: 3/31/04	Checked by: JMN	Scale: N/A	Sheet: of	Project No. 02-162			
Drawn by: EC/EDG	Date: 3/31/04											
Checked by: JMN	Scale: N/A											
Sheet: of	Project No. 02-162											

F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00048-00-PV	COOK	45	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Contract 83819

EXISTING LEGEND

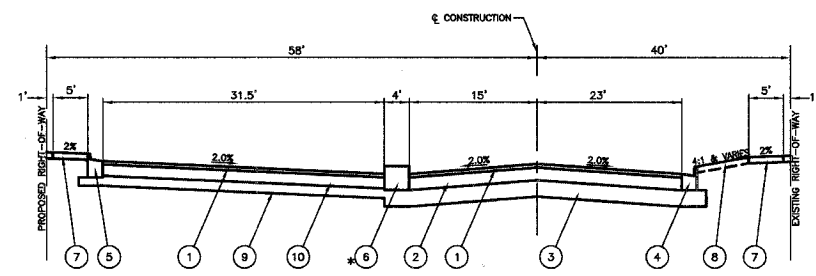
- (A) BITUMINOUS PAVEMENT - 8" TO 8 1/2"
- (B) STONE BASE COURSE - 4" TO 6"
- (C) AGGREGATE SHOULDER
- (D) TYPE B-6.24 CURB AND GUTTER
- (E) CONCRETE SIDEWALK



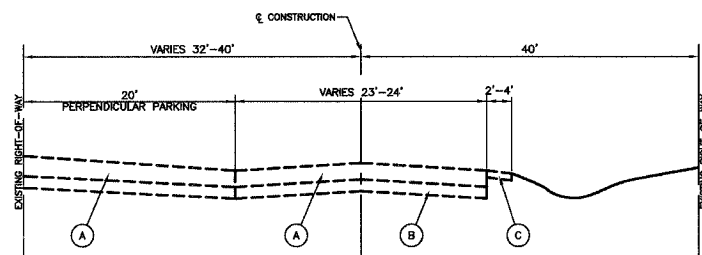
OAK PARK AVENUE
PROPOSED TYPICAL CROSS SECTION
STA 27+50 TO STA 28+28

PROPOSED LEGEND

- (1) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 - 2"
- (2) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50 - 7 1/2"
- (3) AGGREGATE SUBGRADE - 12"
- (4) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24
- (5) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
- (6) CONCRETE MEDIAN, TYPE SB
- (7) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (8) TOPSOIL FURNISH AND PLACE, 4" - SODDING, SALT TOLERANT
- (9) SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- (10) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50 - 8"



OAK PARK AVENUE
PROPOSED TYPICAL CROSS SECTION
STA 28+28 TO STA 31+48

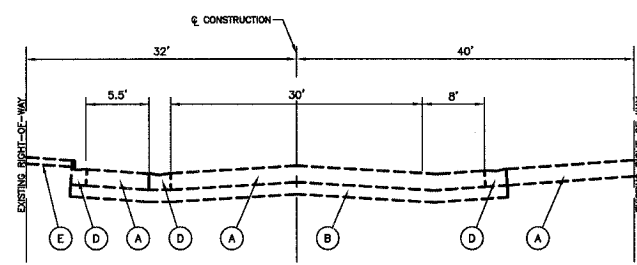


OAK PARK AVENUE
EXISTING TYPICAL CROSS SECTION
STA 27+59 TO STA 32+49

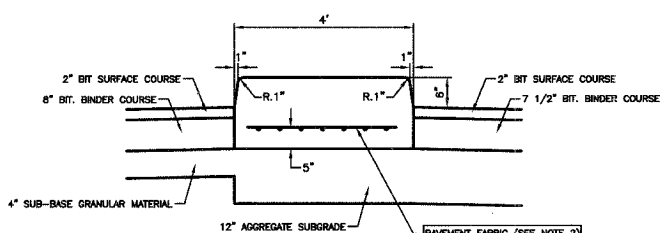
BITUMINOUS MIXTURE REQUIREMENTS

ITEM	GYRATION	AC TYPE	VOIDS	RAP %	THICKNESS	LOCATION
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	50	PG 64-22	4%	15%	2"	OAK PARK AVE./ DRIVEWAYS
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	50	PG 58-22	4%	25%	7 1/2" & 8"	OAK PARK AVE.
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	70	PG 64-22	4%	15%	6"	PATCHING
BITUMINOUS BASE COURSE SUPERPAVE	50	PG 58-22	2%	50%	4"	DRIVEWAYS

"THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE IS 112 LBS/SQYD/IN."

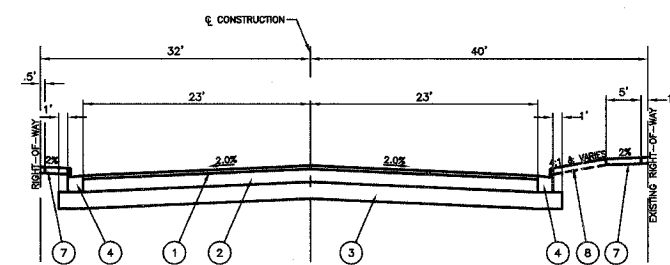


OAK PARK AVENUE
EXISTING TYPICAL CROSS SECTION
STA 32+49 TO STA 33+60.40



NOTES: 1. CONCRETE MEDIAN, TYPE SB SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 808 OF THE STANDARD SPECIFICATIONS AND APPLICABLE PORTIONS OF THE STATE STANDARD 608301-02.
2. 6"x6"-W7x7 WIRE FABRIC WILL BE INCLUDED IN THE COST OF CONCRETE MEDIAN, TYPE SB.

DETAILS FOR CONCRETE MEDIAN, TYPE SB
BASIS OF PAYMENT: "CONCRETE MEDIAN, TYPE SB"
MEASUREMENT: SQUARE FOOT



OAK PARK AVENUE
PROPOSED TYPICAL CROSS SECTION
STA 31+48 TO STA 33+68

ROBINSON ENGINEERING, LTD.
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17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473
(708) 331-6700 FAX (708) 331-3826

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ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128

OAK PARK AVENUE RECONSTRUCTION
115TH STREET TO 111TH STREET
TYPICAL CROSS SECTIONS

WORTH ILLINOIS

Drawn by: EC/EDG Date: 3/31/04
Checked by: JMN Scale: N/A
Sheet: of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8-23-04	PS
2	9-7-05	REL

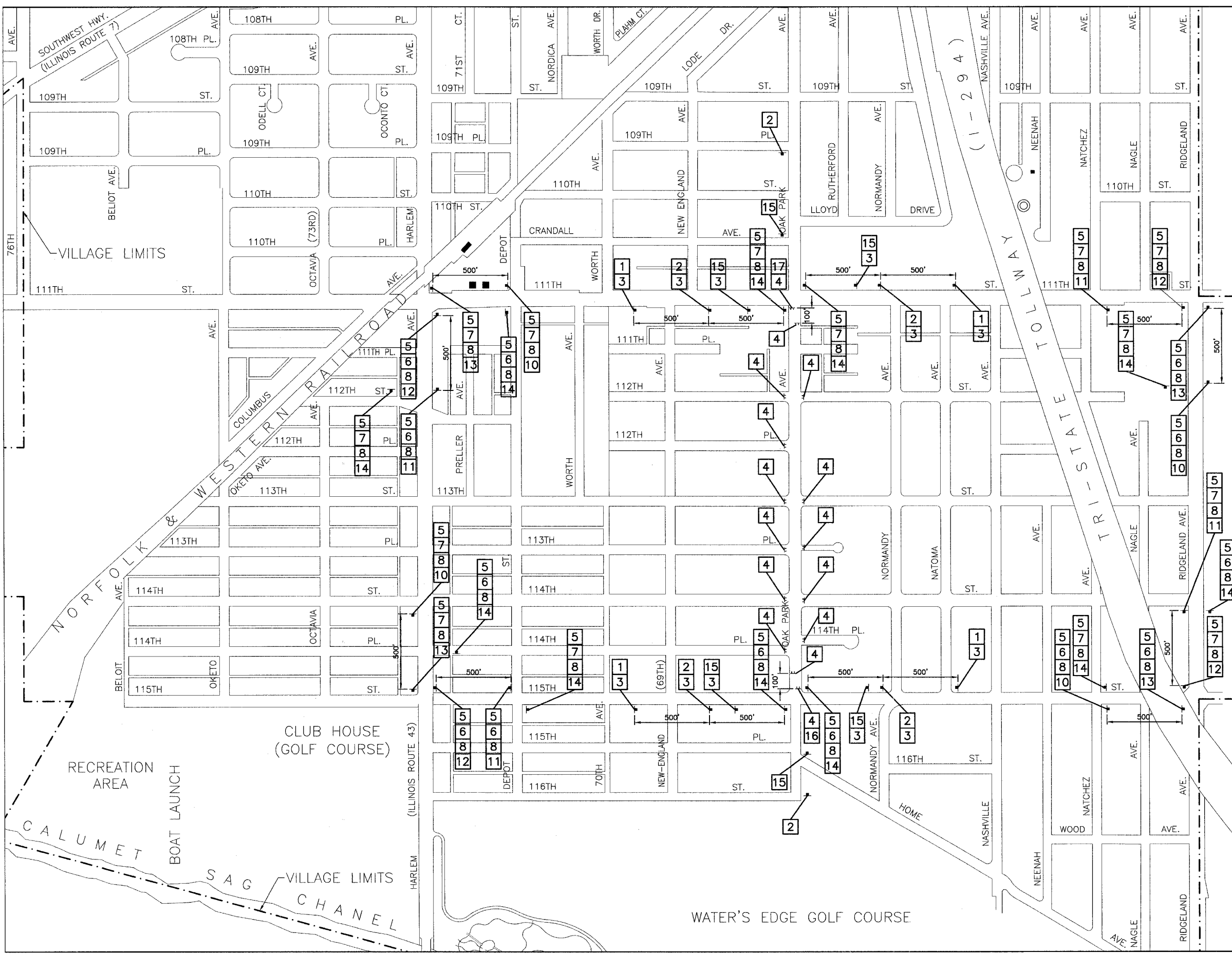
F&M: 2955	SECTION: 02-00049-00-PV	COUNTY: COOK	TOTAL SHEETS: 45	SHEET NO: 9
STA. TO STA.		FED. ROAD DIST. NO.		

Contract 83819



LEGEND

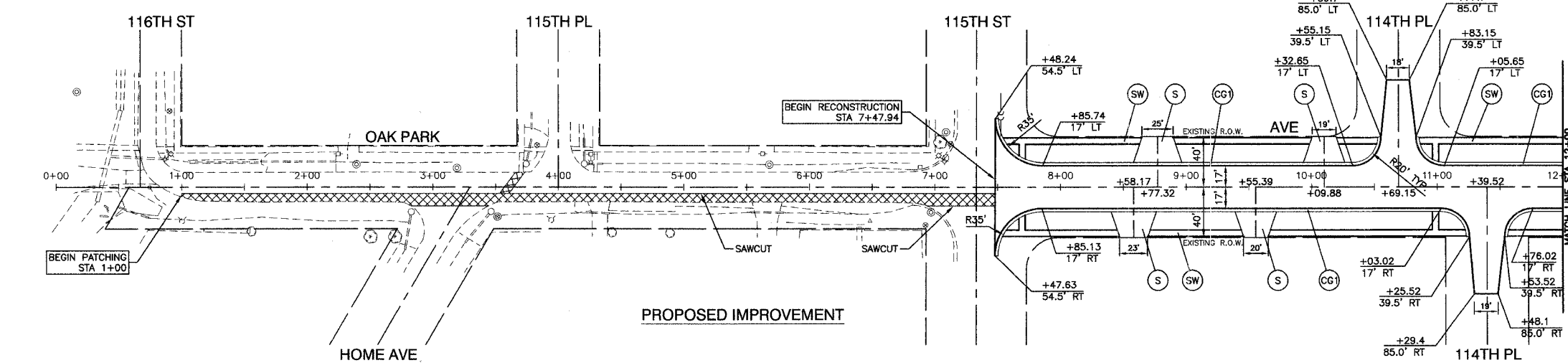
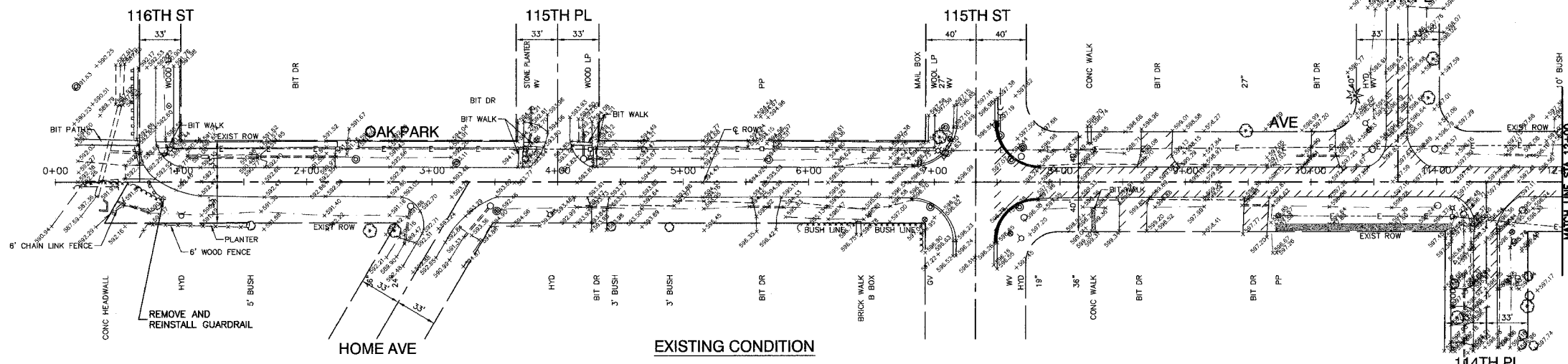
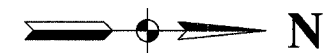
- | | | | |
|----|--|----|--|
| 1 | ROAD CLOSED 1000FT
W20-3
48"x48" | 2 | ROAD CLOSED 500FT
W20-3
48"x48" |
| 3 | OAK PARK AVENUE
D3-1
36"x6" | 4 | ROAD CLOSED TO THRU TRAFFIC
R11-4
60"x30"
(ON TYPE III BARRICADE) |
| 5 | DETOUR
M4-8
24"x12" | 6 | NORTH
M3-1
24"x12" |
| 7 | SOUTH
M3-3
24"x12" | 8 | OAK PARK AVENUE
24"x24" |
| 9 | END DETOUR
M4-8a
24"x18" | 10 | ←
M5-1
21"x15" |
| 11 | →
M5-1
21"x15" | 12 | →
M6-1
21"x15" |
| 13 | ←
M6-1
21"x15" | 14 | ↑
M6-3
21"x15" |
| 16 | DETOUR
M4-10L
48"x18" | 15 | DETOUR AHEAD
W20-2
48"x48" |
| 17 | DETOUR
M4-10R
48"x18" | | |



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OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET DETOUR PLAN		
WORTH, ILLINOIS		
Drawn by: EC	Date: 3/31/04	
Checked by: JMN	Scale: 1"=300'	
Sheet: of	Project No: 02-162	
REVISIONS		
No.	Date	Remarks
1	9-7-05	REL

FAXL NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2955	02-00049-00-PV	COOK	45	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

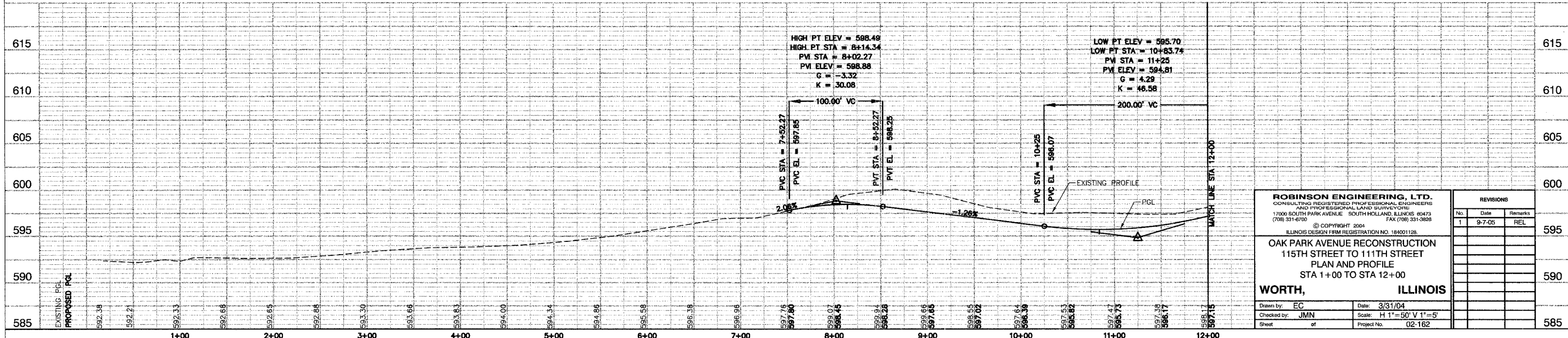
Contact 83819



LEGEND

- COMBINATION CURB & GUTTER REMOVAL
- PAVEMENT AND DRIVEWAY REMOVAL
- SIDEWALK REMOVAL
- CLASS D PATCHES
- BITUMINOUS DRIVEWAY - 2" BITUMINOUS SURFACE COURSE, SUPERPAVE, MIX "C", N50 & 4" BITUMINOUS BASE COURSE, SUPERPAVE
- COMBINATION CURB & GUTTER TYPE B-6.24
- COMBINATION CURB & GUTTER TYPE B-6.12
- P.C.C. SIDEWALK, 5"

BENCH MARK:
SPIKE NAIL IN SOUTH FACE OF WOOD LIGHT POLE ON NORTH SIDE OF 115TH ST BETWEEN RESIDENCE #7000 AND #6928
ELEVATION=600.767

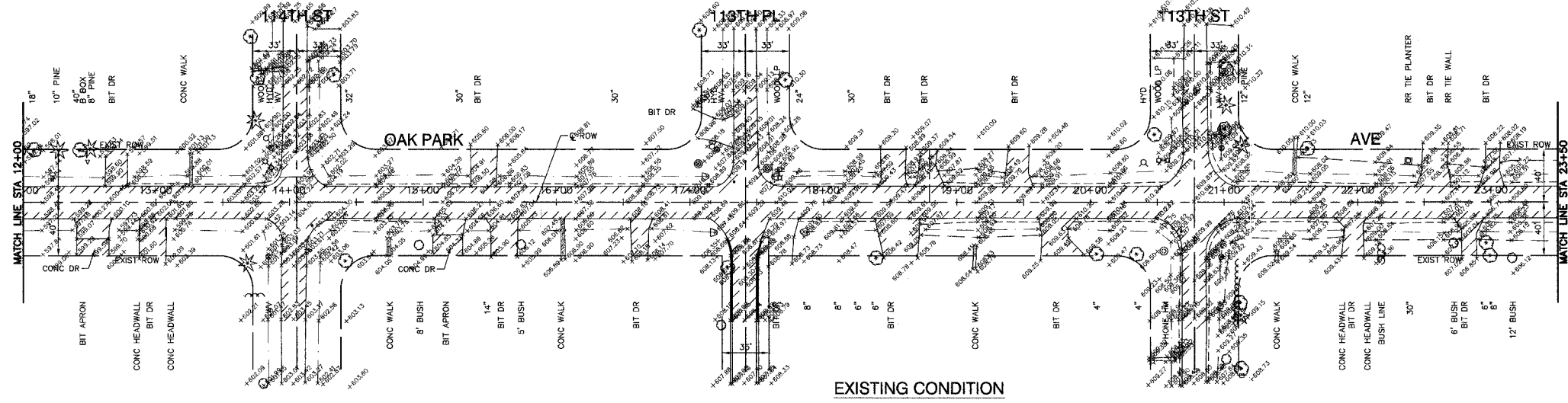


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OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET PLAN AND PROFILE STA 1+00 TO STA 12+00											
WORTH,		ILLINOIS									
Drawn by: EC Checked by: JMN Sheet:	Date: 3/31/04 Scale: H 1"=50' V 1"=5' Project No: 02-162	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>9-7-05</td> <td>REL</td> </tr> </tbody> </table>	REVISIONS			No.	Date	Remarks	1	9-7-05	REL
REVISIONS											
No.	Date	Remarks									
1	9-7-05	REL									

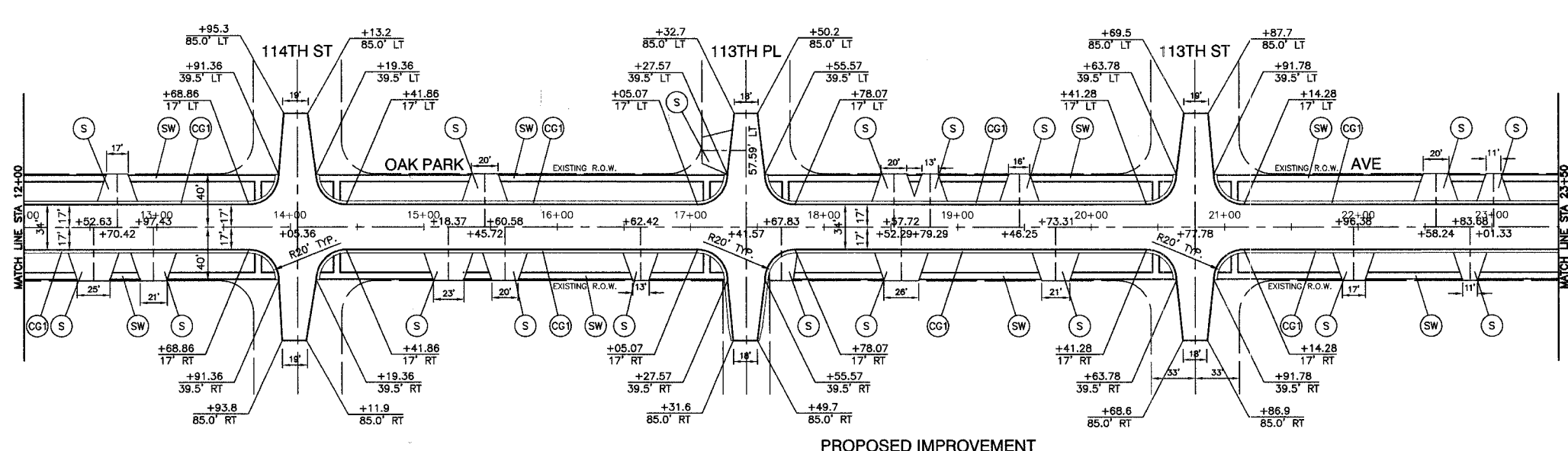
SECTION 19, TOWNSHIP 37, RANGE 13

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	11
STA.	TO STA.			
FED. ROAD DIST. NO. LINKS FED. AID PROJECT				

Contract 83319



EXISTING CONDITION



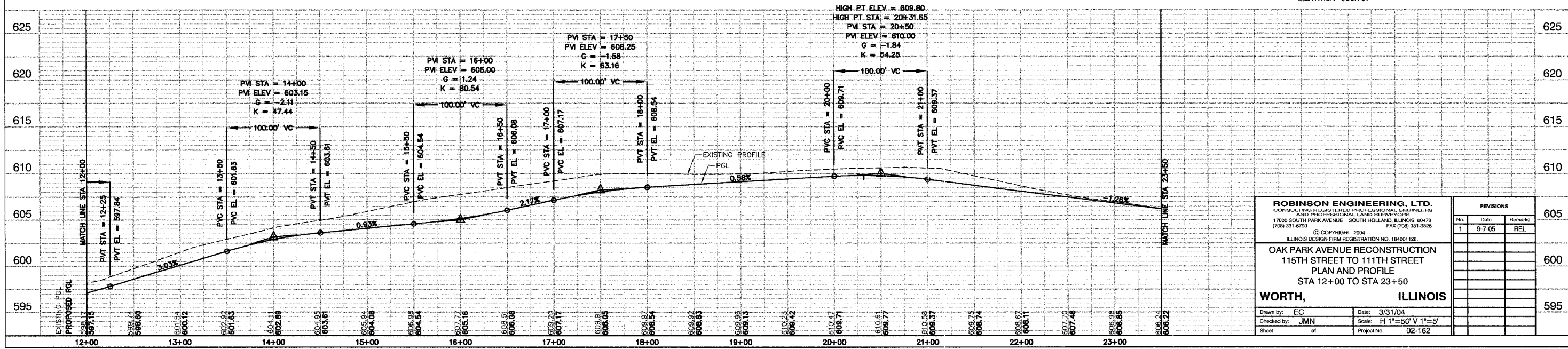
PROPOSED IMPROVEMENT



LEGEND

- COMBINATION CURB & GUTTER REMOVAL
- PAVEMENT AND DRIVEWAY REMOVAL
- SIDEWALK REMOVAL
- CLASS D PATCHES
- BITUMINOUS DRIVEWAY - 2" BITUMINOUS SURFACE COURSE, SUPERPAVE, MIX "C", N50 & 4" BITUMINOUS BASE COURSE, SUPERPAVE
- COMBINATION CURB & GUTTER TYPE B-6.24
- COMBINATION CURB & GUTTER TYPE B-6.12
- P.C.C. SIDEWALK, 5"

BENCH MARK:
SPIKE NAIL IN SOUTH FACE OF WOOD LIGHT POLE ON NORTH SIDE OF 115TH ST BETWEEN RESIDENCE #7000 AND #6928
ELEVATION=600.767



ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60478 (708) 331-6700 FAX (708) 331-3626			REVISIONS <table border="1"> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> <tr> <td>1</td> <td>9-7-05</td> <td>REL</td> </tr> </table>		No.	Date	Remarks	1	9-7-05	REL
No.	Date	Remarks								
1	9-7-05	REL								
© COPYRIGHT 2004 ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128 OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET PLAN AND PROFILE STA 12+00 TO STA 23+50 WORTH, ILLINOIS			605 600 595							
Drawn by: EC Checked by: JMN Sheet: of		Date: 3/31/04 Scale: H 1"=50' V 1"=5' Project No. 02-162								

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

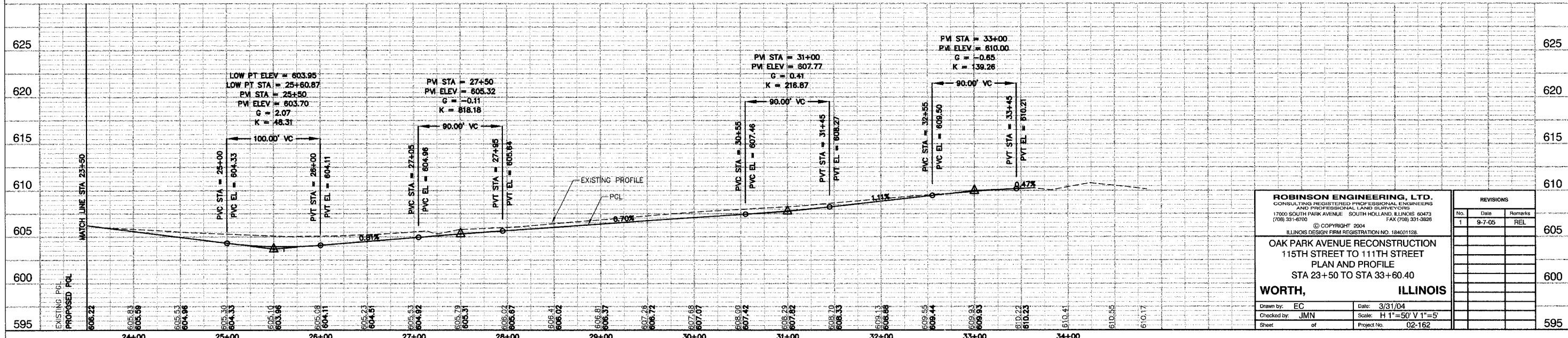
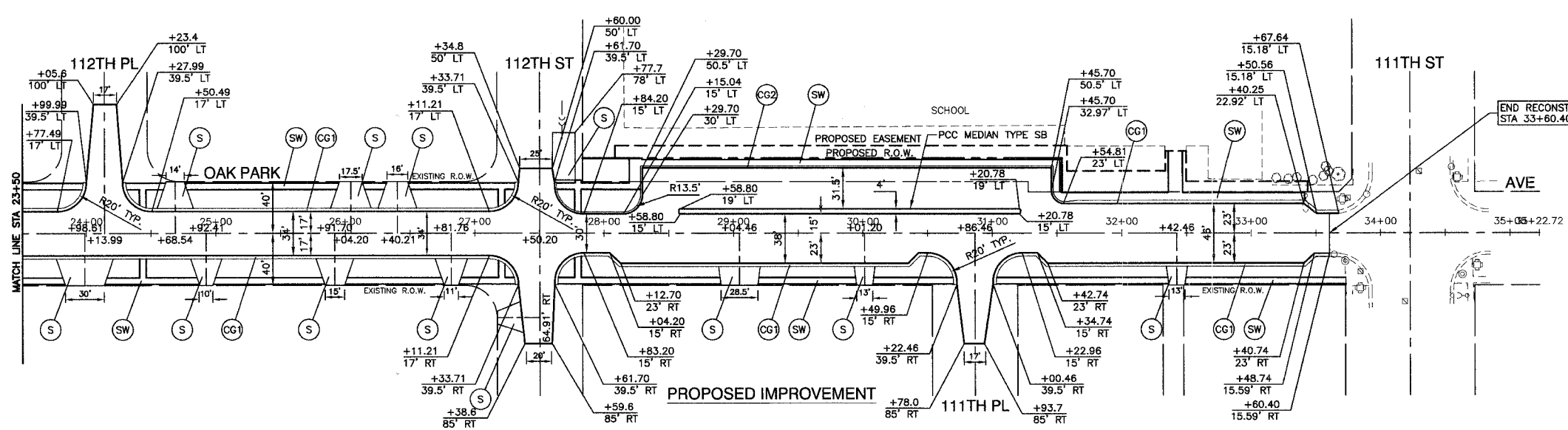
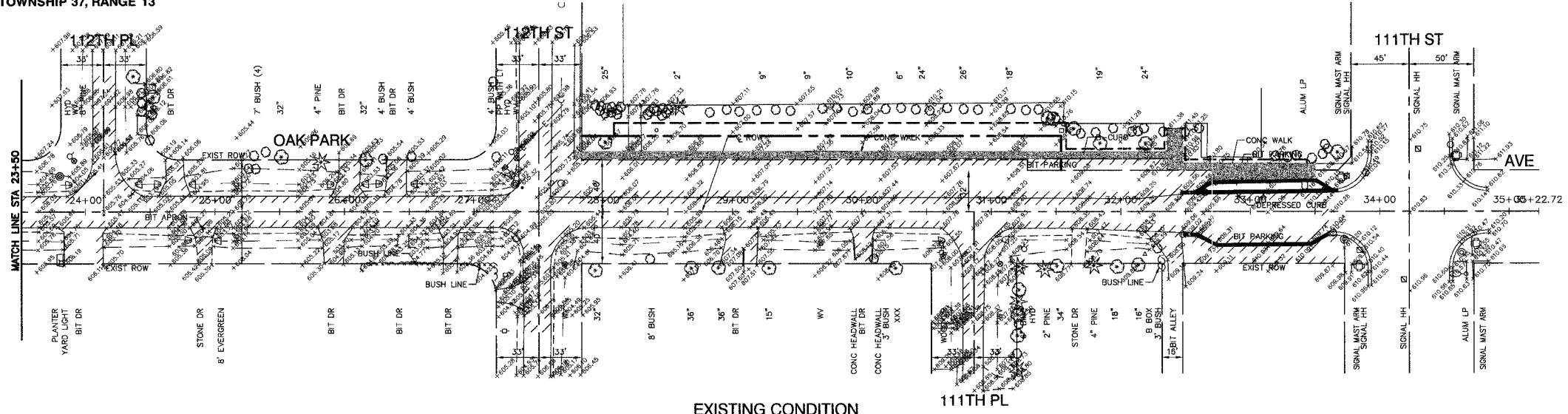
Contract 83819



LEGEND

- COMBINATION CURB & GUTTER REMOVAL
- PAVEMENT AND DRIVEWAY REMOVAL
- SIDEWALK REMOVAL
- CLASS D PATCHES
- BITUMINOUS DRIVEWAY - 2" BITUMINOUS SURFACE COURSE, SUPERPAVE, MIX "C", N50 & 4" BITUMINOUS BASE COURSE, SUPERPAVE
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SPIKE NAIL IN SOUTH FACE OF WOOD LIGHT POLE ON NORTH SIDE OF 115TH ST BETWEEN RESIDENCE #7000 AND #6928
ELEVATION=600.767

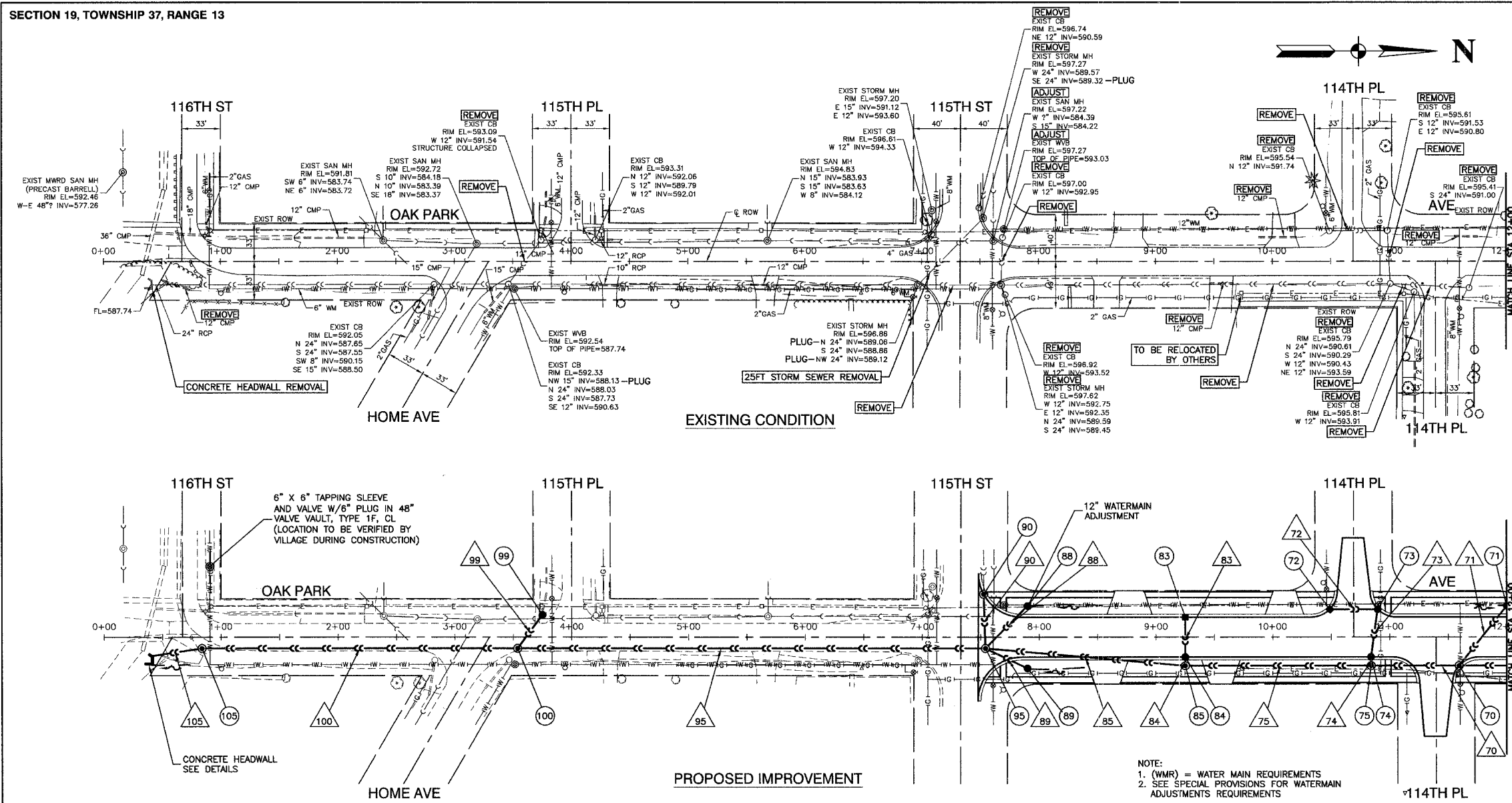


<p>ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-6700 FAX (708) 331-3328</p> <p>© COPYRIGHT 2004 ILLINOIS DESIGN FIRM REGISTRATION NO. 18401128</p>		<p>REVISIONS</p> <table border="1"> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> <tr> <td>1</td> <td>9-7-05</td> <td>REL</td> </tr> </table>	No.	Date	Remarks	1	9-7-05	REL
No.	Date	Remarks						
1	9-7-05	REL						
<p>OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET PLAN AND PROFILE STA 23+50 TO STA 33+60.40</p>		<p>605</p>						
<p>WORTH, ILLINOIS</p>		<p>600</p>						
<p>Drawn by: EC Checked by: JMN Sheet of</p>	<p>Date: 3/31/04 Scale: H 1"=50' V 1"=5' Project No. 02-162</p>	<p>595</p>						

SECTION 19, TOWNSHIP 37, RANGE 13

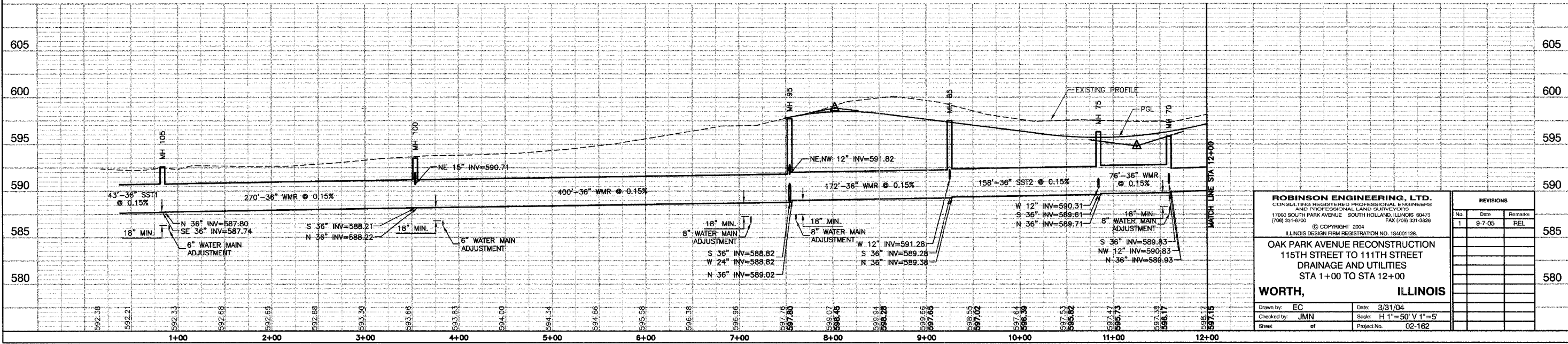
FAH. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Contract 83819



STA.	DESCRIPTION	REMARKS
70	STA 11+59, 24.5' RT MH TA 5' DIA FS T24 F&G RIM EL=595.82 NW 12" INV=590.83 N 30" INV=589.93 S 36" INV=589.83	
85	STA 9+25, 24.5' RT MH TA 5' DIA T1F CL RIM EL=597.50 W 12" INV=591.28 N 36" INV=589.38 S 36" INV=589.28	
71	STA 12+00, 26.8' LT CB TC T8C RIM EL=596.09 SE 12" INV=592.14	
72	STA 7+90, 26.8' LT CB TC T8C RIM EL=596.82 SE 12" INV=593.35	
88	STA 10+49, 23.6' LT INLET TA T24 F&G RIM EL=595.55 N 12" INV=590.87	
73	STA 7+90, 26.8' RT CB TC T8C RIM EL=596.67 SW 12" INV=593.42	
90	STA 10+92, 21.6' LT CB TA 4' DIA T24 F&G RIM EL=595.28 S 12" INV=590.65 E 12" INV=590.55	
74	STA 7+53, 37' LT MH TA 5' DIA T24 F&G RIM EL=597.09 W 24" INV=589.57 E 24" INV=589.56	
75	STA 10+83, 17' RT CB TA 4' DIA T24 F&G RIM EL=595.36 N 12" INV=590.35 S 12" INV=590.35	
83	STA 10+83, 24.5' RT MH TA 5' DIA FS T1F CL RIM EL=596.28 W 12" INV=590.31 N 36" INV=589.71 S 36" INV=589.61	
99	STA 3+75, 19' LT CB TA 4' DIA T8C RIM EL=596.77 N 12" INV=591.54 W 12" INV=591.54 SE 15" INV=590.85	
100	STA 9+25, 17' LT INLET TA T24 F&G RIM EL=596.99 E 12" INV=592.48	
84	STA 9+25, 17' RT CB TA 4' DIA T24 F&G RIM EL=596.99 W 12" INV=592.31 E 12" INV=591.31	
105	STA 3+54, 9.5' RT MH TA 5' DIA FS T1F CL RIM EL=593.53 NE 15" INV=590.71 N 36" INV=588.22 S 36" INV=588.21	
105	STA 0+84, 9.5' RT MH TA 5' DIA FS T1F CL RIM EL=592.60 N 36" INV=587.80 SE 36" INV=587.74	

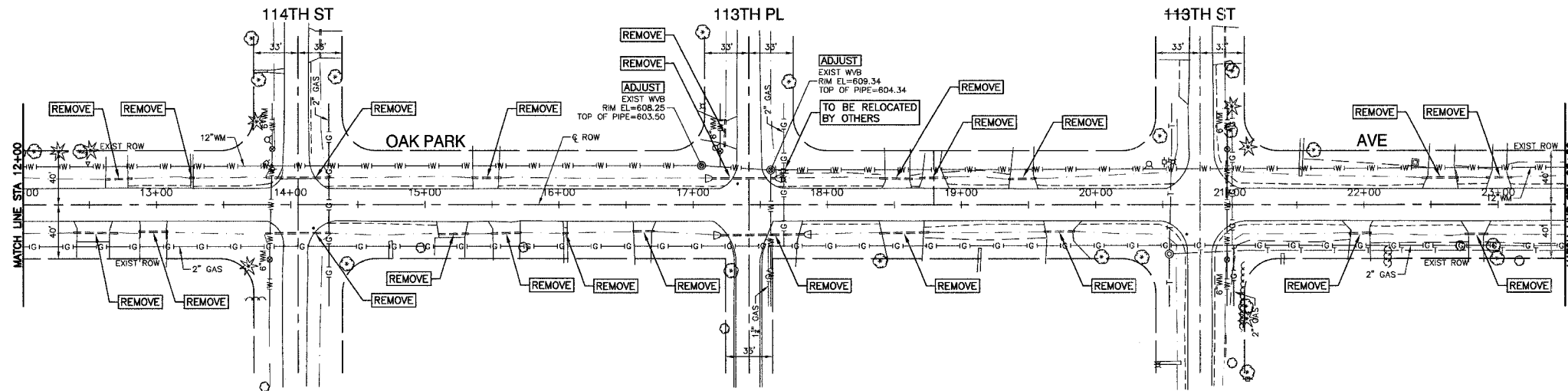
NOTE:
1. (WMR) = WATER MAIN REQUIREMENTS
2. SEE SPECIAL PROVISIONS FOR WATERMAIN ADJUSTMENTS REQUIREMENTS



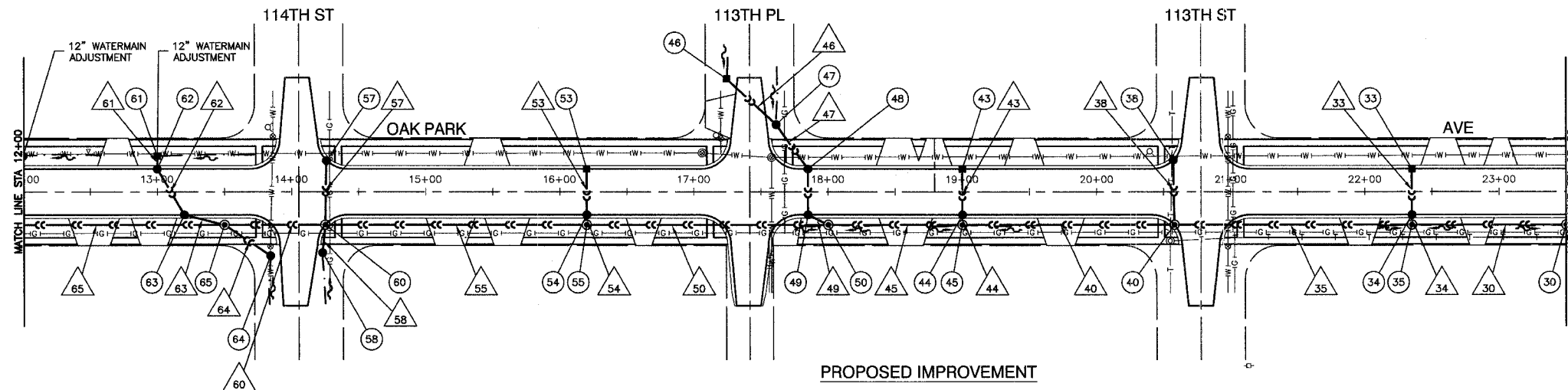
ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 351-8700 FAX (708) 351-3526			REVISIONS <table border="1"> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> <tr> <td>1</td> <td>9-7-05</td> <td>REL</td> </tr> </table>		No.	Date	Remarks	1	9-7-05	REL
No.	Date	Remarks								
1	9-7-05	REL								
OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET DRAINAGE AND UTILITIES STA 1+00 TO STA 12+00			585 580							
WORTH, ILLINOIS Drawn by: EC Date: 3/31/04 Checked by: JMN Scale: H 1"=50' V 1"=5' Sheet of Project No. 02-162			585 580							

FALL SITE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

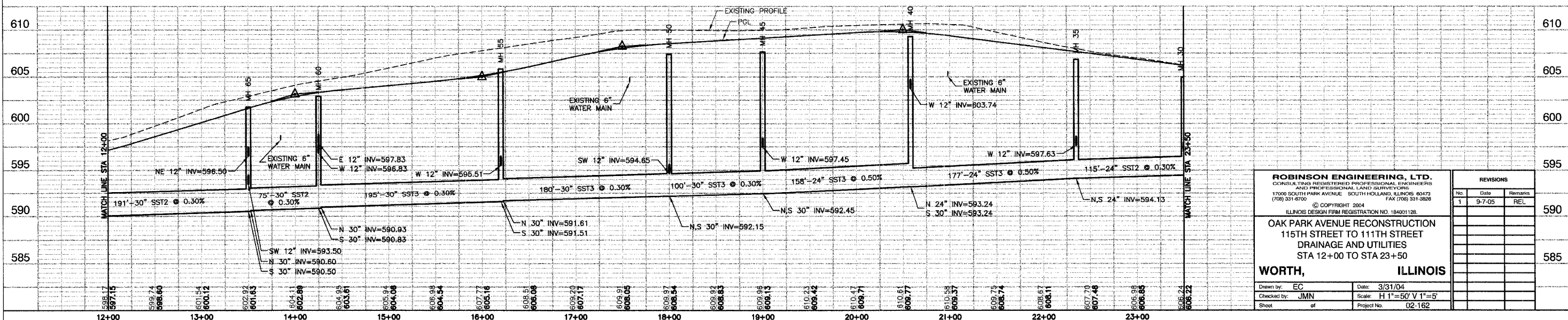
Contract 83819



EXISTING CONDITION



PROPOSED IMPROVEMENT

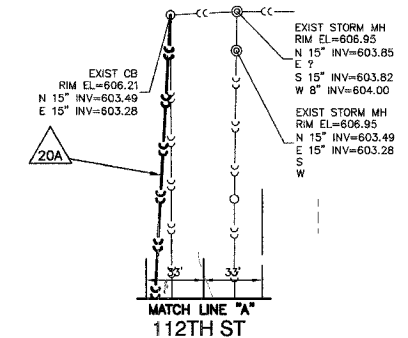
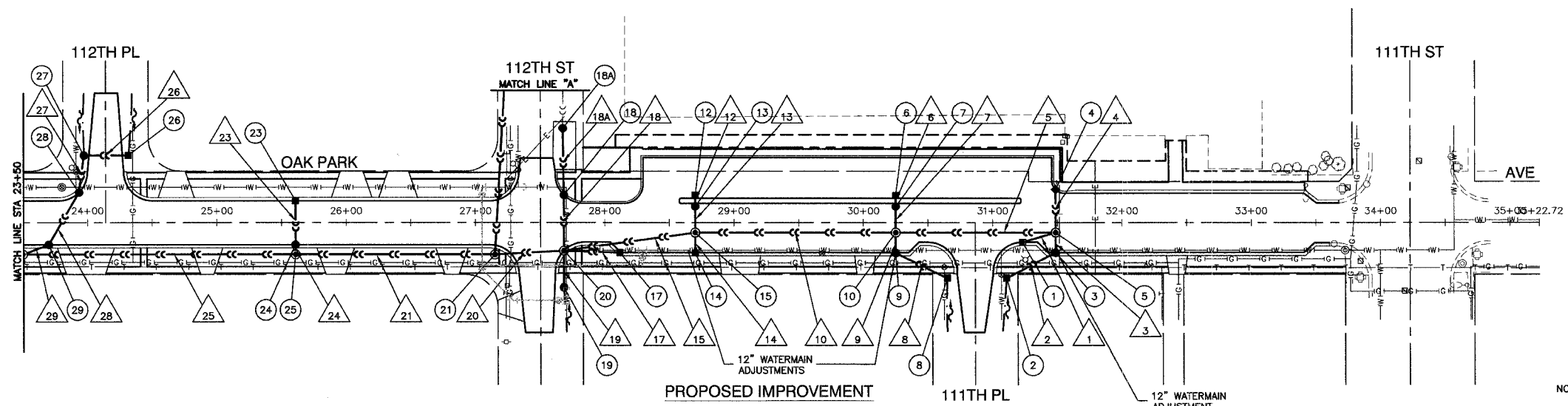
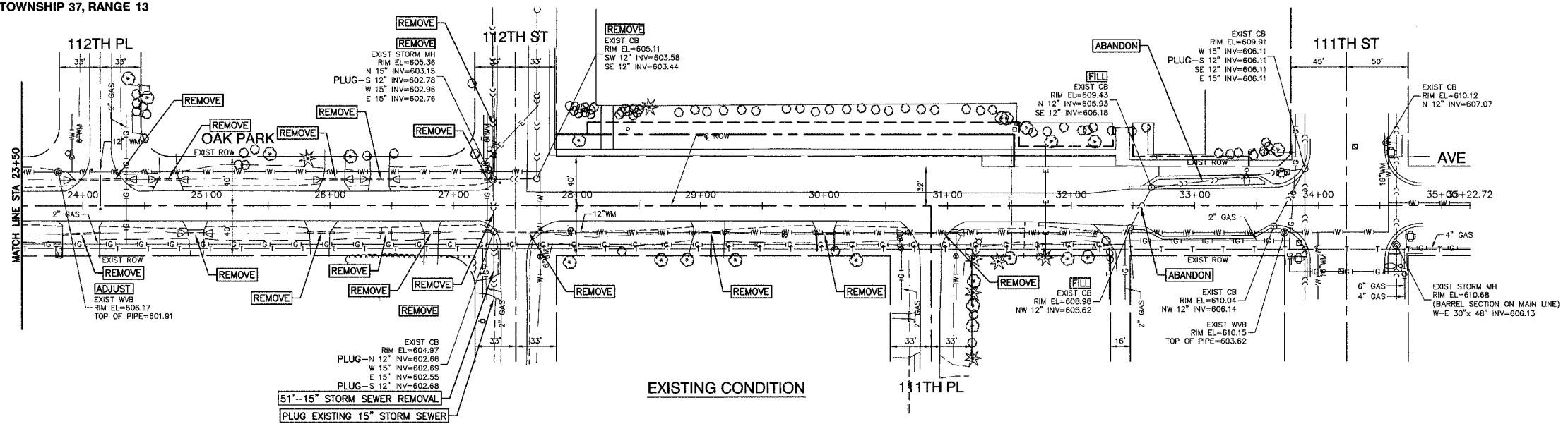
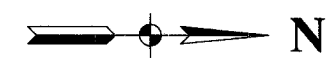


ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60474 (708) 331-8700 FAX (708) 331-9228 © COPYRIGHT 2004 ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128											
OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET DRAINAGE AND UTILITIES STA 12+00 TO STA 23+50											
WORTH, ILLINOIS											
Drawn by: EC Checked by: JMN Sheet: of	Date: 3/31/04 Scale: H 1"=50' V 1"=5' Project No. 02-162	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>9-7-05</td> <td>REL</td> </tr> </tbody> </table>	REVISIONS			No.	Date	Remarks	1	9-7-05	REL
REVISIONS											
No.	Date	Remarks									
1	9-7-05	REL									

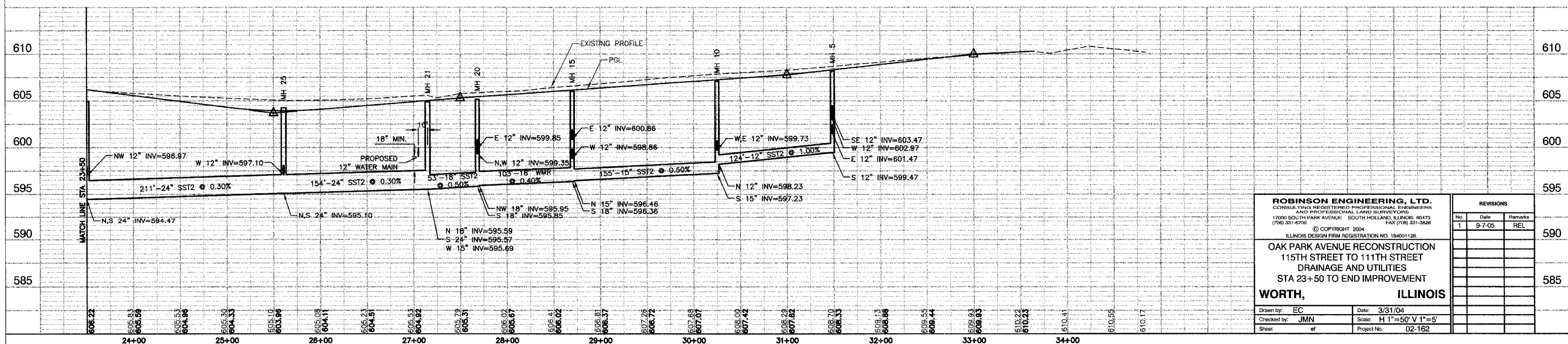
SECTION 19, TOWNSHIP 37, RANGE 13

FAA. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Contract 83819



NOTES: SEE WATER MAIN RELOCATION, SHEET NO. 19, FOR WATER MAIN IMPROVEMENTS.



ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-6700 FAX (708) 331-3826		REVISIONS <table border="1"> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> <tr> <td>1</td> <td>9-7-05</td> <td>REL</td> </tr> </table>	No.	Date	Remarks	1	9-7-05	REL
No.	Date	Remarks						
1	9-7-05	REL						
© COPYRIGHT 2004 ILLINOIS DESIGN FIRM REGISTRATION NO. 154031128 OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET DRAINAGE AND UTILITIES STA 23+50 TO END IMPROVEMENT WORTH, ILLINOIS		590 585						
Drawn by: EC Checked by: JMN Sheet of	Date: 3/31/04 Scale: H 1"=50' V 1"=5' Project No. 02-162							

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-C0049-00-PV	COOK	45	16
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Contact 83819

- 30 STA 23+50, 24.5' RT
MH TA 5' DIA T8G
RIM EL=604.95
NW 12" INV=596.97
N 24" INV=594.47
S 24" INV=594.47
- 33 STA 22+35, 17' LT
INLET TA T24 F&G
RIM EL=607.33
E 12" INV=602.54
- 34 STA 22+35, 17' RT
CB TA 4' DIA T24 F&G
RIM EL=607.33
W 12" INV=602.20
E 12" INV=597.70
- 35 STA 22+35, 24.5' RT
MH TA 5' DIA T8G
RIM EL=606.83
W 12" INV=597.63
N 24" INV=594.13
S 24" INV=594.13
- 38 STA 20+57, 23.6' LT
CB TC T24 F&G
RIM EL=609.38
E 12" INV=604.70
- 40 STA 20+58, 24.5' RT
MH TA 5' DIA T24 F&G
RIM EL=609.28
W 12" INV=603.74
N 24" INV=593.24
S 30" INV=593.24
- 43 STA 19+00, 17' LT
INLET TA T24 F&G
RIM EL=608.79
E 12" INV=603.87
- 44 STA 19+00, 17' RT
CB TA 4' DIA T24 F&G
RIM EL=608.79
W 12" INV=603.53
E 12" INV=597.53
- 45 STA 19+00, 24.5' RT
MH TA 5' DIA T8G
RIM EL=607.64
W 12" INV=597.45
N 30" INV=592.45
S 30" INV=592.45
- 46 STA 17+25, 84' LT
INLET TA T8G
RIM EL=607.99
NE 12" INV=603.98
- 47 STA 17+61, 50' LT
CB TA 4' DIA T8G
RIM EL=607.79
SW 12" INV=602.98
NE 12" INV=600.48
- 48 STA 17+85, 17' LT
CB TA 4' DIA T24 F&G
RIM EL=608.10
SW 12" INV=599.67
E 12" INV=597.67
- 49 STA 17+85, 17' RT
CB TA 4' DIA T24 F&G
RIM EL=608.10
W 12" INV=596.99
NE 12" INV=594.99
- 50 STA 18+00, 24.5' RT
MH TA 5' DIA T8G
RIM EL=607.38
SW 12" INV=594.65
N 30" INV=592.15
S 30" INV=592.15
- 53 STA 16+20, 17' LT
INLET TA T24 F&G
RIM EL=605.15
E 12" INV=600.34
- 54 STA 16+20, 17' RT
CB TA 4' DIA T24 F&G
RIM EL=605.15
W 12" INV=599.66
E 12" INV=595.66
- 55 STA 16+20, 24.5' RT
MH TA 5' DIA T1F CL
RIM EL=605.84
W 12" INV=595.51
N 30" INV=591.61
S 30" INV=591.51
- 57 STA 14+26, 23.6' LT
CB TC T24 F&G
RIM EL=602.82
E 12" INV=597.79
- 58 STA 14+23, 45' RT
CB TC T8G
RIM EL=602.42
W 12" INV=598.24
- 60 STA 14+25, 24.5' RT
MH TA 5' DIA T24 F&G
RIM EL=602.91
E 12" INV=597.83
W 12" INV=596.83
N 30" INV=590.93
S 30" INV=590.83
- 61 STA 13+00, 26.8' LT
INLET TA T8G
RIM EL=599.03
E 12" INV=595.30
- 62 STA 13+00, 17' LT
CB TA 4' DIA T24 F&G
RIM EL=599.78
W 12" INV=595.11
NE 12" INV=595.01
- 63 STA 13+20, 17' RT
CB TA 4' DIA T24 F&G
RIM EL=600.38
SW 12" INV=594.22
NE 12" INV=594.12
- 64 STA 13+84, 48' RT
CB TC T8G
RIM EL=601.46
SW 12" INV=597.33
- 65 STA 13+50, 24.5' RT
MH TA 5' DIA T1F CL
RIM EL=601.74
NE 12" INV=596.50
SW 12" INV=593.50
N 30" INV=590.60
S 30" INV=590.50

- 30 115'-24" SST2 @ 0.30% (42.5)
- 33 34'-12" SST2 @ 1.00% (8.7)
- 34 8'-12" SST2 @ 1.00% (2.2)
- 35 177'-24" SST3 @ 0.50% (193.1)
- 38 48'-12" SST2 @ 2.00% (13.4)
- 40 158'-24" SST3 @ 0.50% (125.9)
- 43 34'-12" SST2 @ 1.00% (8.7)
- 44 8'-12" SST2 @ 1.00% (2.7)
- 45 100'-30" SST3 @ 0.30% (102)
- 46 50'-12" SST2 @ 2.00% (6.8)
- 47 41'-12" SST2 @ 2.00% (10.3)
- 48 34'-12" SST2 @ 2.00% (45.5)
- 49 17'-12" SST3 @ 2.00% (17)
- 50 180'-30" SST3 @ 0.30% (289)
- 53 34'-12" SST2 @ 2.00% (9.5)
- 54 8'-12" SST2 @ 2.00% (2.4)
- 55 195'-30" SST3 @ 0.30% (172)
- 57 48'-12" SST2 @ 2.00% (13.4)
- 58 21'-12" SST2 @ 2.00% (5.7)
- 60 75'-30" SST2 @ 0.30% (89.4)
- 61 10'-12" SST2 @ 2.00% (0.35) (WMR)
- 62 40'-12" SST2 @ 2.00% (11.8)
- 63 31'-12" SST2 @ 2.00% (11.4)
- 64 41'-12" SST2 @ 2.00% (4.7) (WMR)
- 65 191'-30" SST2 @ 0.30% (80) (WMR)

STRUCTURE AND PIPE CALLOUTS FROM STATION 12+00 TO STATION 23+50

- 1 STA 31+23, 15' RT
INLET TA T24 F&G
RIM EL=607.74
NW 12" INV=604.01
- 2 STA 31+11, 43' RT
INLET TA T8G
RIM EL=607.26
NW 12" INV=603.56
- 3 STA 31+49, 23' RT
CB TA 4' DIA T24 F&G
RIM EL=607.86
SE 12" INV=603.13
W 12" INV=601.63
- 4 STA 31+49, 25.9' LT
CB TC T11 F&G
RIM EL=607.90
E 12" INV=603.16
- 5 STA 31+49, 7.5' RT
MH TA 4' DIA T1F CL
RIM EL=608.17
W 12" INV=602.97
SE 12" INV=603.47
E 12" INV=601.47
S 12" INV=599.47
- 6 STA 30+25, 21' LT
INLET TA T1F OL
RIM EL=608.99
E 12" INV=602.33
- 7 STA 30+25, 13' LT
CB TA 4' DIA T1F OL
RIM EL=608.99
W 12" INV=602.29
E 12" INV=599.79
- 8 STA 30+65, 43' RT
MH TA 4' DIA T8G
RIM EL=607.03
SW 12" INV=602.34
- 9 STA 30+25, 23' RT
CB TA 4' DIA T24 F&G
RIM EL=606.79
NE 12" INV=601.89
W 12" INV=599.89
- 10 STA 30+25, 7.5' RT
MH TA 4' DIA T1F CL
RIM EL=607.10
W 12" INV=599.73
E 12" INV=599.73
N 12" INV=598.23
S 15" INV=597.23
- 12 STA 28+70, 21' LT
INLET TA T1F OL
RIM EL=605.90
E 12" INV=601.55
- 13 STA 28+70, 13' LT
CB TA 4' DIA T1F OL
RIM EL=605.90
W 12" INV=601.47
E 12" INV=598.97
- 14 STA 28+70, 23' RT
CB TC T24 F&G
RIM EL=605.70
W 12" INV=601.17
- 15 STA 28+70, 7.5' RT
MH TA 4' DIA T1F CL
RIM EL=606.01
W 12" INV=600.86
E 12" INV=598.86
N 15" INV=598.46
S 18" INV=596.36
- 17 STA 28+11.5, 23' RT
INLET TA T24 F&G
RIM EL=605.30
S 12" INV=600.70
- 18A STA 27+67.5, 73' LT
CB TA 4' DIA FS T1F OL
RIM EL=606.16
E 12" INV=603.58
W 12" INV=602.58
- 18 STA 27+68, 21.6' LT
CB TA 4' DIA T11 F&G
RIM EL=605.01
E 12" INV=600.64
W 12" INV=601.64
- 19 STA 27+68, 50' RT
CB TC T8G
RIM EL=604.43
W 12" INV=600.70
- 20 STA 27+68, 21.6' RT
MH TA 4' DIA T24 F&G
RIM EL=605.18
E 12" INV=599.85
W 12" INV=599.35
N 12" INV=599.35
NW 18" INV=595.95
S 18" INV=595.85
- 21 STA 27+15, 24.5' RT
MH TA 5' DIA T1F CL
RIM EL=604.92
W 15" INV=595.69
N 18" INV=595.59
S 24" INV=595.57
- 23 STA 25+61, 17' LT
INLET TA T24 F&G
RIM EL=603.61
E 12" INV=599.02
- 24 STA 25+61, 17' RT
CB TA 4' DIA T24 F&G
RIM EL=603.61
W 12" INV=598.68
E 12" INV=597.18
- 25 STA 25+61, 24.5' RT
MH TA 5' DIA T1F CL
RIM EL=604.25
W 12" INV=597.10
N 24" INV=595.10
S 24" INV=595.10
- 26 STA 24+32, 52' LT
INLET TA T8G
RIM EL=604.77
S 12" INV=601.80
- 27 STA 23+97, 52' LT
CB TA 4' DIA T8G
RIM EL=605.11
N 12" INV=601.45
E 12" INV=599.05
- 28 STA 23+93, 23.6' LT
CB TA 4' DIA T24 F&G
RIM EL=605.20
W 12" INV=598.76
SE 12" INV=597.76
- 29 STA 23+72, 17' RT
CB TA 4' DIA T24 F&G
RIM EL=605.44
NW 12" INV=597.30
SE 12" INV=597.20

- 1 26'-12" SST2 @ 2.00% (5) (WMR)
- 2 43'-12" SST2 @ 1.00% (2.6) (WMR)
- 3 16'-12" SST2 @ 1.00% (9.8) (WMR)
- 4 18'-12" SST2 @ 1.00% (4.7)
- 5 124'-12" SST2 @ 1.00% (126.1)
- 6 4'-12" SST2 @ 1.00% (0.86)
- 7 6'-12" SST2 @ 1.00% (4.2)
- 8 45'-12" SST2 @ 1.00% (3.5) (WMR)
- 9 16'-12" SST2 @ 1.00% (11.8) (WMR)
- 10 155'-15" SST2 @ 0.50% (182.4)
- 12 4'-12" SST2 @ 2.00% (0.78)
- 13 6'-12" SST2 @ 2.00% (4)
- 14 16'-12" SST2 @ 2.00% (3.7) (WMR)
- 15 103'-18" SST2 @ 0.40% (122.5)
- 17 45'-12" SST2 @ 2.00% (8.7)
- 18A 51'-12" SST1 @ 1.84% (6.73) (WMR)
- 18 43'-12" SST2 @ 3.00% (11.1)
- 19 28'-12" SST2 @ 3.00% (3.9)
- 20A 289'-15" SST2 @ 2.63% (23.9) (WMR)
- 20 53'-18" SST2 @ 0.50% (54.4)
- 21 154'-24" SST2 @ 0.30% (72.7)
- 23 34'-12" SST2 @ 1.00% (8)
- 24 8'-12" SST2 @ 1.00% (1.4)
- 25 211'-24" SST2 @ 0.30% (93.5)
- 26 35'-12" SST1 @ 1.00% (4.6)
- 27 29'-12" SST2 @ 1.00% (3.9)
- 28 46'-12" SST2 @ 1.00% (16.6)
- 29 23'-12" SST2 @ 1.00% (13.8)

STRUCTURE AND PIPE CALLOUTS FROM STATION 23+50 TO END OF IMPROVEMENT

ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60470 (708) 381-6700		ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128	
OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET DRAINAGE AND UTILITIES STRUCTURE AND PIPE CALLOUTS			
WORTH, ILLINOIS		REVISIONS	
Drawn by: EC	Date: 3/31/04	No.	Date
Checked by:	Scale: NA		Remarks
Sheet of	Project No. 02-162		

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Contact 83819

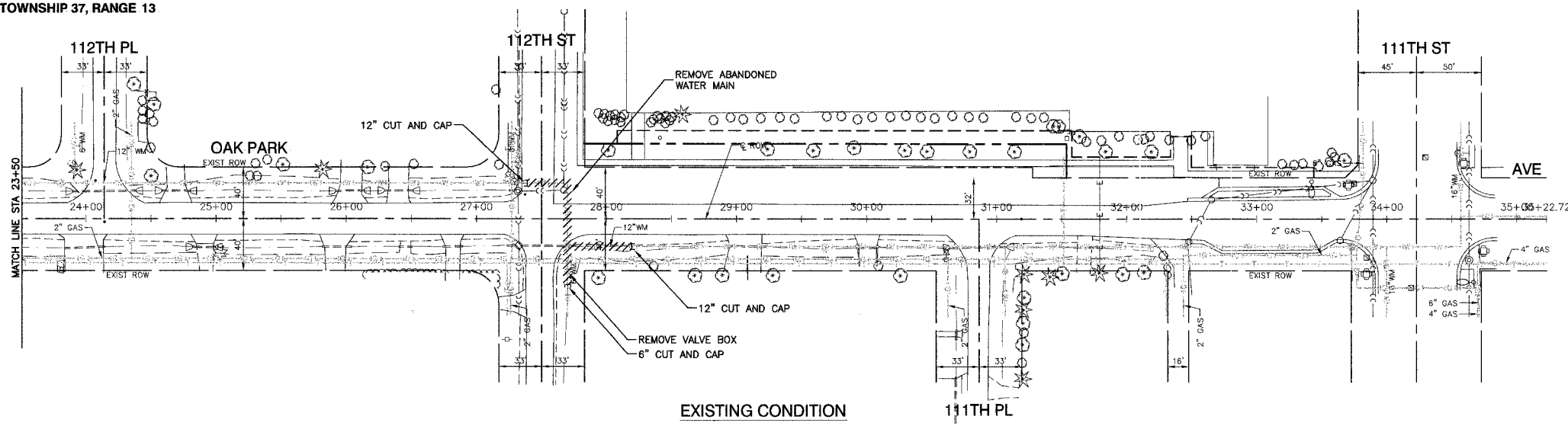
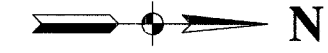
STRUCTURE SCHEDULE																								
LOCATION				INLETS			CATCH BASINS						MANHOLES											
STRUCTURE NO.	STATION	OFFSET		TA	TA	TA	TA 4'DIA	TA 4'DIA	TA 4'DIA	TA 4'DIA	TC	TC	TC	TA 4'DIA	TA 4'DIA	TA 4'DIA	TA 5'DIA	TA 5'DIA	TA 5'DIA	TA 6'DIA	FLAT SLAB	FLAT SLAB	FLAT SLAB	
				T1F OL	T8F&G	T24F&G	T1F OL	T8G	T11F&G	T24F&G	T8G	T11F&G	T24F&G	T1F CL	T8G	T24F CL	T1F CL	T8G	T24F&G	T1F CL	TA 4'DIA	TA 5'DIA	TA 5'DIA	T1F CL
1	31+23	15	FT RT			1																		
2	31+11	43.0	FT RT		1																			
3	31+49	23.0	FT RT																					
4	31+49	25.9	FT LT																					
5	31+49	7.5	FT RT																					
6	30+25	21.0	FT LT	1																				
7	30+25	13.0	FT LT				1																	
8	30+65	43.0	FT RT																					
9	30+25	23.0	FT RT																					
10	30+25	7.5	FT RT																					
12	28+70	21.0	FT LT	1																				
13	28+70	13.0	FT LT				1																	
14	28+70	23.0	FT RT																					
15	28+70	7.5	FT RT																					
17	28+12	23	FT RT																					
18A	27+67.5	73	FT LT																					
18	27+68	21.6	FT LT																					
19	27+68	50.0	FT RT																					
20	27+68	21.6	FT RT																					
21	27+15	24.5	FT RT																					
23	25+61	17.0	FT LT																					
24	25+61	17.0	FT RT																					
25	25+61	24.5	FT RT																					
26	24+32	52.0	FT LT																					
27	23+97	52.0	FT LT																					
28	23+93	23.6	FT LT																					
29	23+72	17.0	FT RT																					
30	23+50	24.5	FT RT																					
33	22+35	17.0	FT LT																					
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35	22+35	24.5	FT RT																					
38	20+57	23.6	FT LT																					
40	20+58	24.5	FT RT																					
43	19+00	17.0	FT LT																					
44	19+00	17.0	FT RT																					
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46	17+25	84.0	FT LT																					
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50	18+00	24.5	FT RT																					
53	16+20	17.0	FT LT																					
54	16+20	17.0	FT RT																					
55	16+20	24.5	FT RT																					
57	14+26	23.2	FT LT																					
58	14+23	45.0	FT RT																					
60	14+25	24.5	FT RT																					
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63	13+20	17.0	FT RT																					
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65	13+50	24.5	FT RT																					
70	11+59	24.5	FT RT																					
71	12+00	26.8	FT LT																					
72	10+49	23.6	FT LT																					
73	10+92	21.6	FT LT																					
74	10+83	17.0	FT RT																					
75	10+83	24.5	FT RT																					
83	9+25	17.0	FT LT																					
84	9+25	17.0	FT RT																					
85	9+25	24.5	FT RT																					
88	7+90	26.8	FT LT																					
89	7+90	26.8	FT RT																					
90	7+53	37.0	FT LT																					
95	7+54	9.5	FT RT																					
99	3+75	19.0	FT LT																					
100	3+54	9.5	FT RT																					
105	0+84	9.5	FT RT																					
TOTAL				2	4	8	2	3	1	14	5	1	5	3	1	1	5	4	3	1	1	3	1	

ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-6700 © COPYRIGHT 2004 ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128 FAX (708) 331-3826			REVISIONS <table border="1"> <tr><th>No.</th><th>Date</th><th>Remarks</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>			No.	Date	Remarks															
No.	Date	Remarks																					
OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET STRUCTURE SCHEDULE																							
WORTH,			ILLINOIS																				
Drawn by:	EC	Date:	3/31/04																				
Checked by:	JMN	Scale:	NA																				
Sheet	of	Project No.	02-162																				

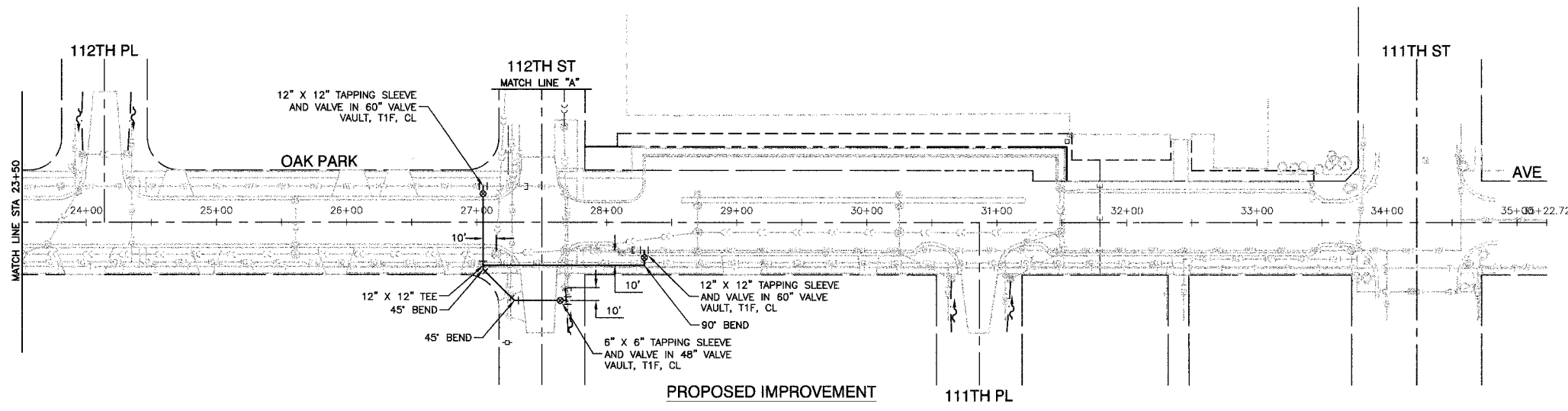
SECTION 19, TOWNSHIP 37, RANGE 13

F.A.S. R/L	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-0049-00-PV	COOK	45	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

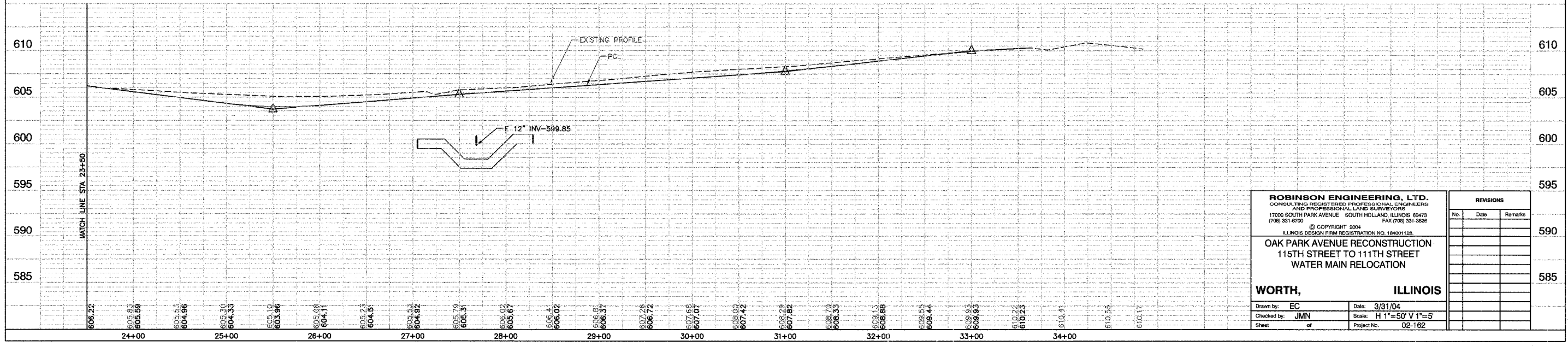
Contract 83819



EXISTING CONDITION



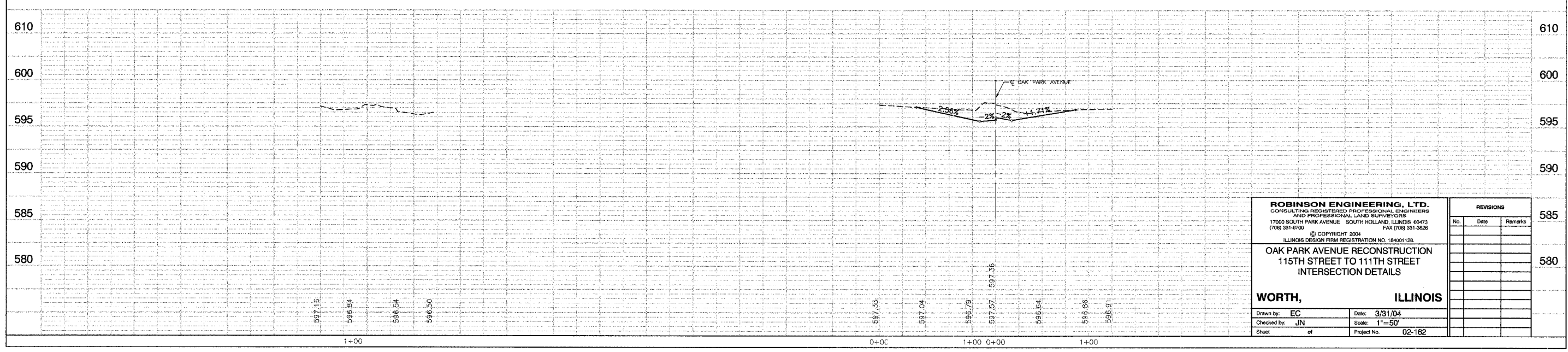
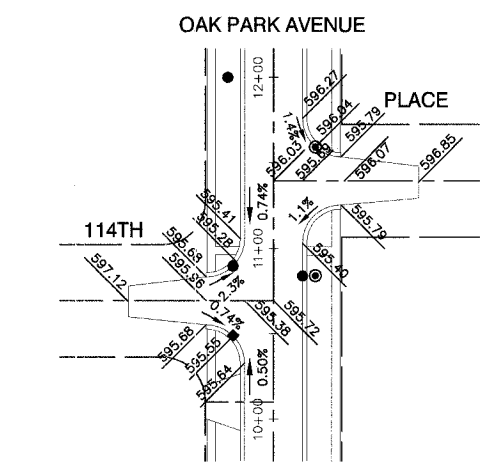
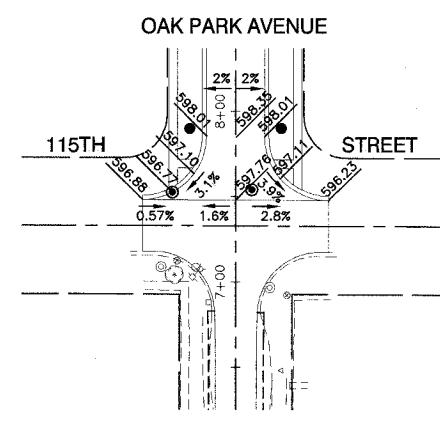
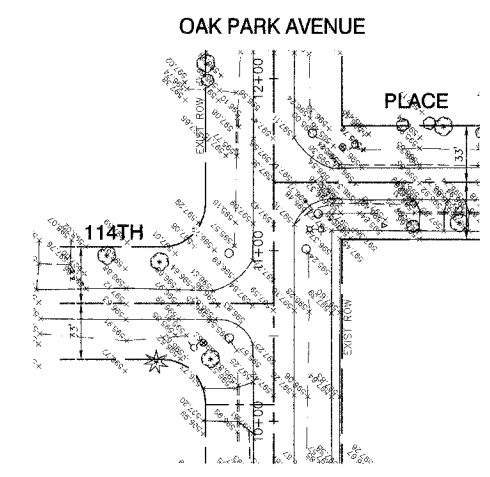
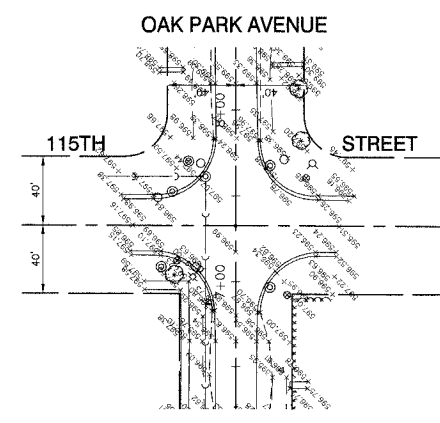
PROPOSED IMPROVEMENT



<p>ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17030 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 381-6700</p> <p>© COPYRIGHT 2004 ILLINOIS DESIGN FIRM REGISTRATION NO. 184001129</p> <p>OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET WATER MAIN RELOCATION</p> <p>WORTH, ILLINOIS</p>		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	No.	Date	Remarks																														
No.	Date	Remarks																																	
<p>Drawn by: EC</p> <p>Checked by: JMN</p> <p>Sheet of</p>	<p>Date: 3/31/04</p> <p>Scale: H 1"=50' V 1"=5'</p> <p>Project No.: 02-162</p>																																		

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

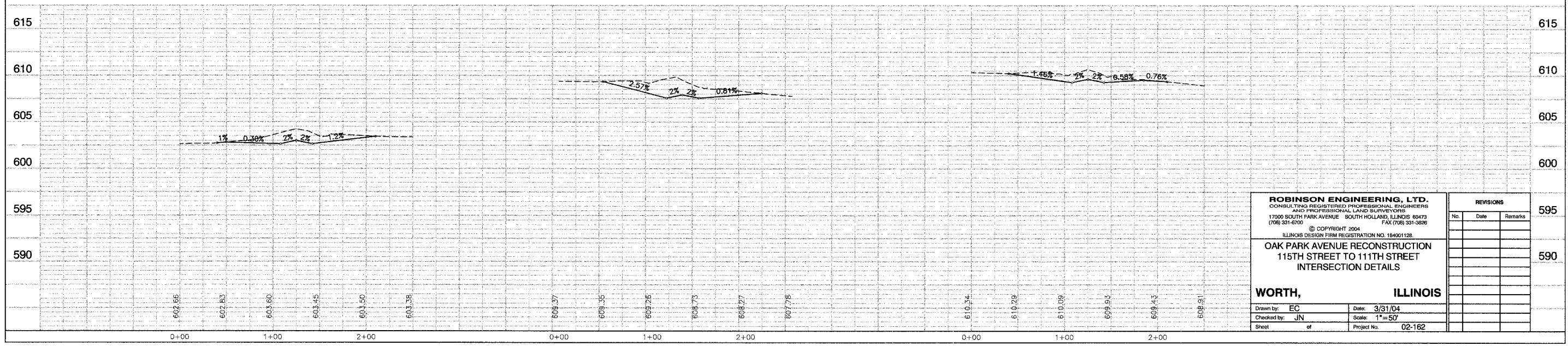
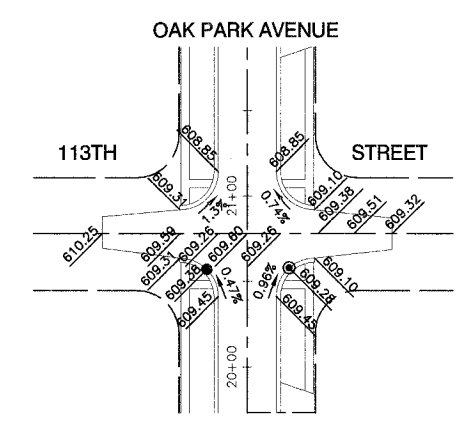
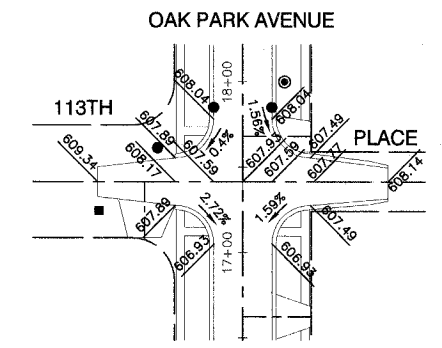
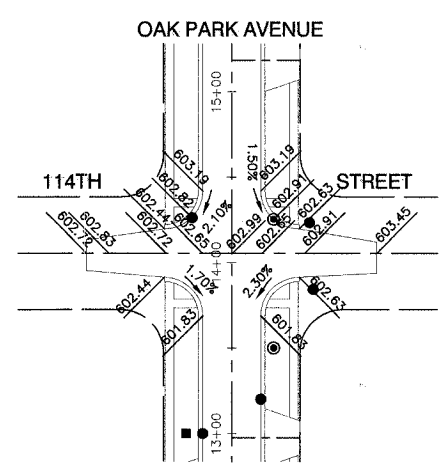
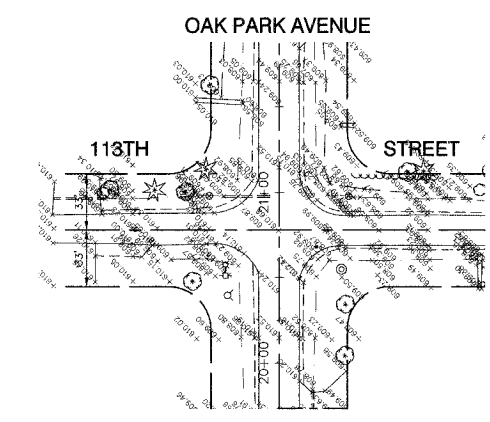
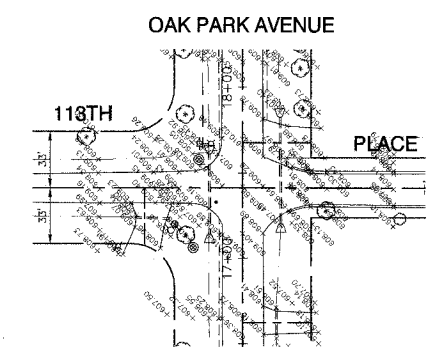
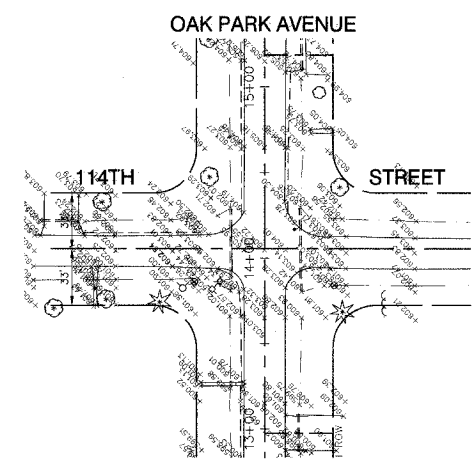
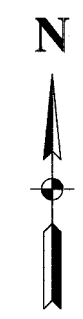
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No.	Date	Remarks																									
OAK PARK AVENUE RECONSTRUCTION 115TH STREET TO 111TH STREET INTERSECTION DETAILS		585 580																									
WORTH, ILLINOIS		585 580																									
Drawn by: EC Checked by: JN Sheet of	Date: 3/31/04 Scale: 1"=50' Project No. 02-162	585 580																									

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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**OAK PARK AVENUE RECONSTRUCTION
 115TH STREET TO 111TH STREET
 INTERSECTION DETAILS**

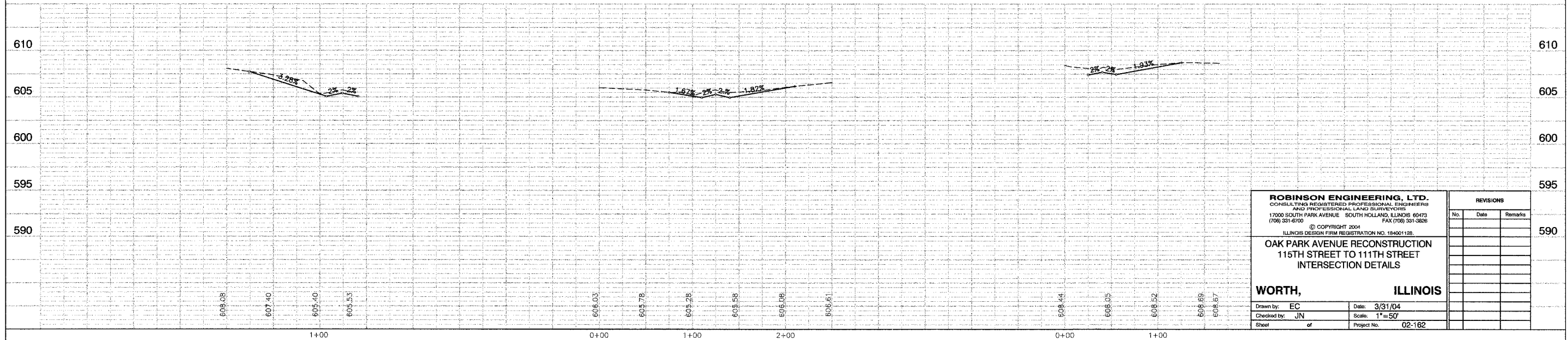
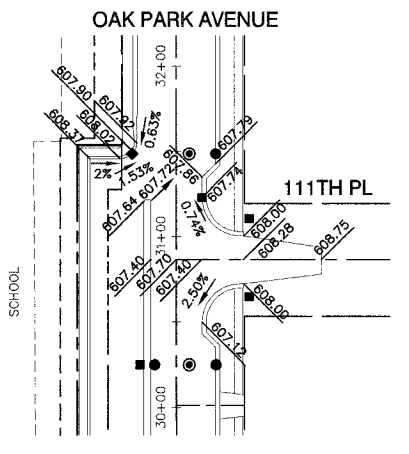
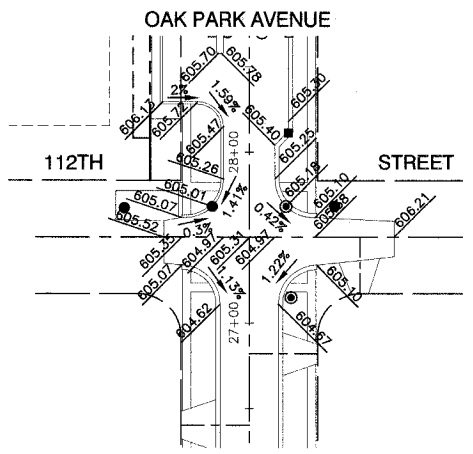
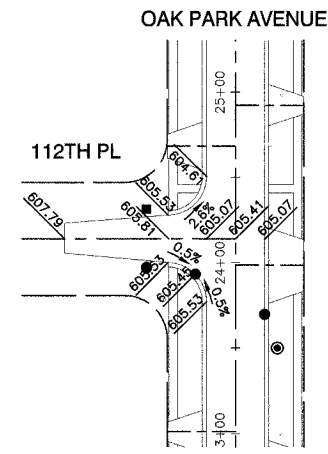
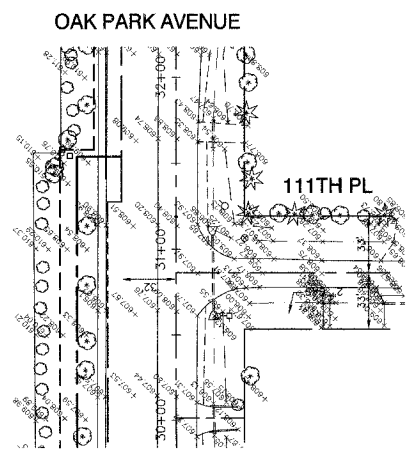
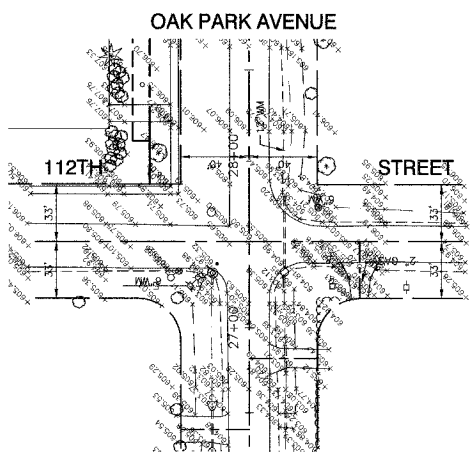
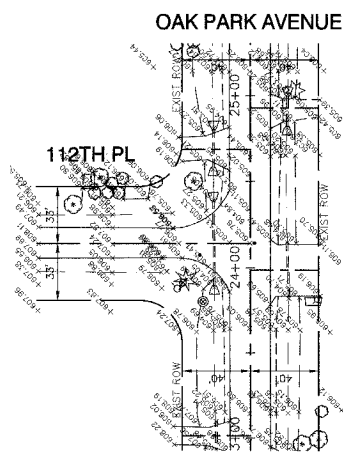
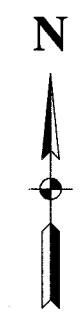
WORTH, ILLINOIS

Drawn by: EC Date: 3/31/04
 Checked by: JN Scale: 1"=50'
 Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-0049-00-PV	COOK	45	22
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Contract 83819



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ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128

**OAK PARK AVENUE RECONSTRUCTION
115TH STREET TO 111TH STREET
INTERSECTION DETAILS**

WORTH, ILLINOIS

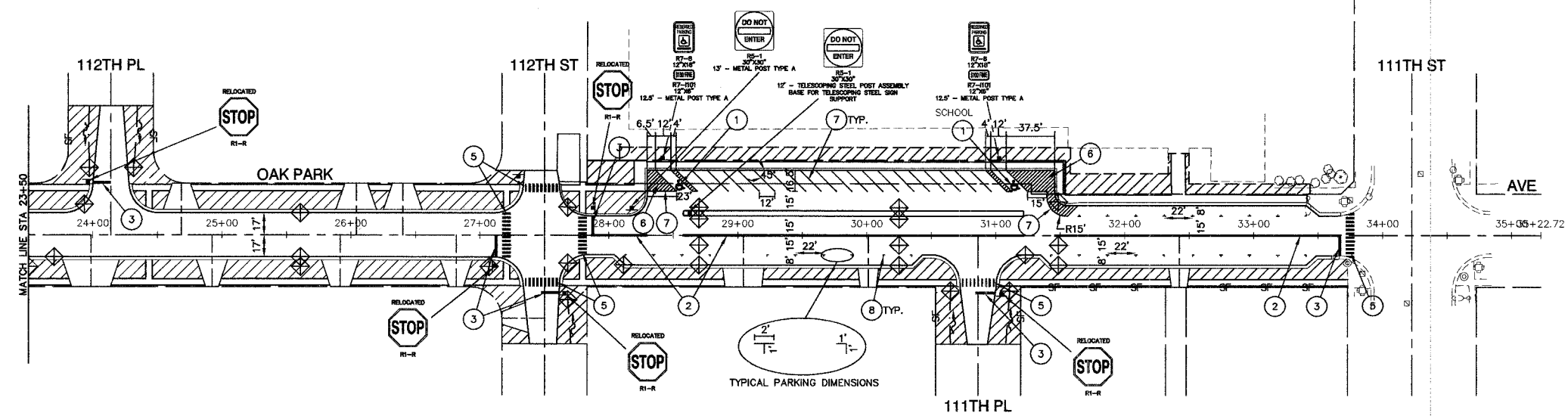
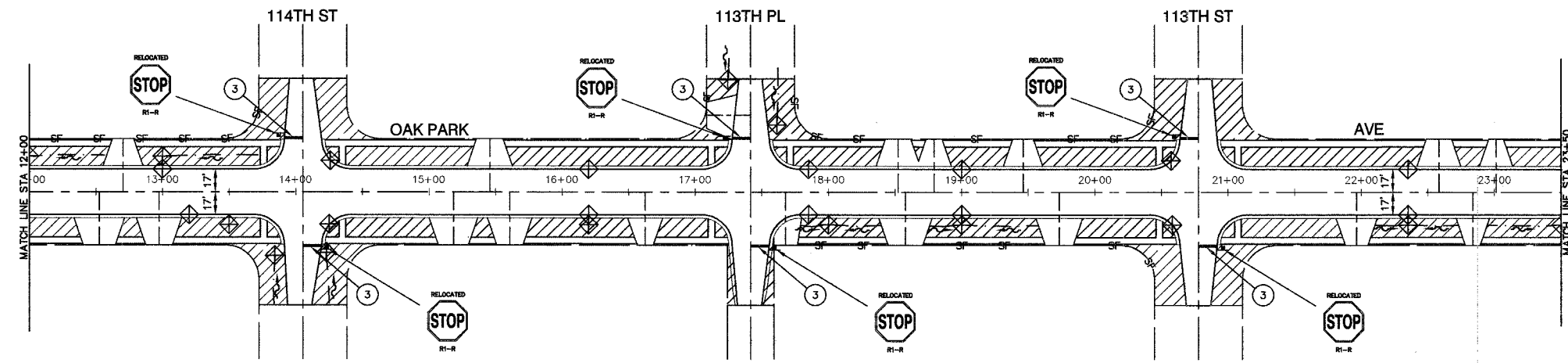
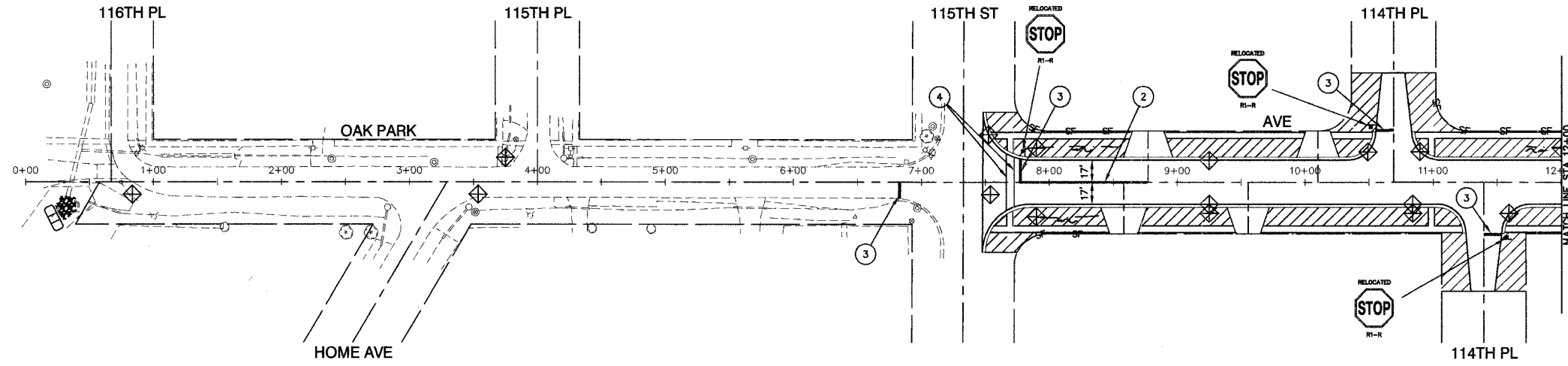
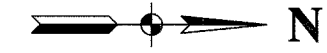
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Checked by: JN Scale: 1"=50'
Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks

SECTION 19, TOWNSHIP 37, RANGE 13

FAU. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ALNOS	FED. AID PROJECT	

Contract 83819



EROSION CONTROL & LANDSCAPING LEGEND

- SODDING, SALT TOLERANT & FERTILIZER NUTRIENTS
- RIP RAP - CLASS A4
- PERIMETER EROSION BARRIER
- INLET FILTERS
- TEMPORARY DITCH CHECKS

PAVEMENT MARKING LEGEND

- ① WHITE LETTERS & SYMBOLS
- ② DOUBLE 4" YELLOW CENTERLINE (11" C/C)
- ③ 24" WHITE STOP BAR
- ④ 6" WHITE CROSSWALK (6' C/C)
- ⑤ 12" WHITE LINE (3' C/C)
- ⑥ 4" WHITE DIAGONAL (2' C/C)
- ⑦ 4" WHITE LINE
- ⑧ 6" WHITE LINE

NOTE: 1-ALL EXISTING SIGNS THAT WILL BE DISTURBED DURING CONSTRUCTION WILL BE STOCKPILED AT A SAFE LOCATION. EXISTING SIGNS WILL BE RELOCATED AT LOCATIONS DETERMINED BY THE ENGINEER. THE COST OF RELOCATING EXISTING SIGNS WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

BENCH MARK:

SPIKE NAIL IN SOUTH FACE OF WOOD LIGHT POLE ON NORTH SIDE OF 115TH ST BETWEEN RESIDENCE #7000 AND #6928 ELEVATION=600.767

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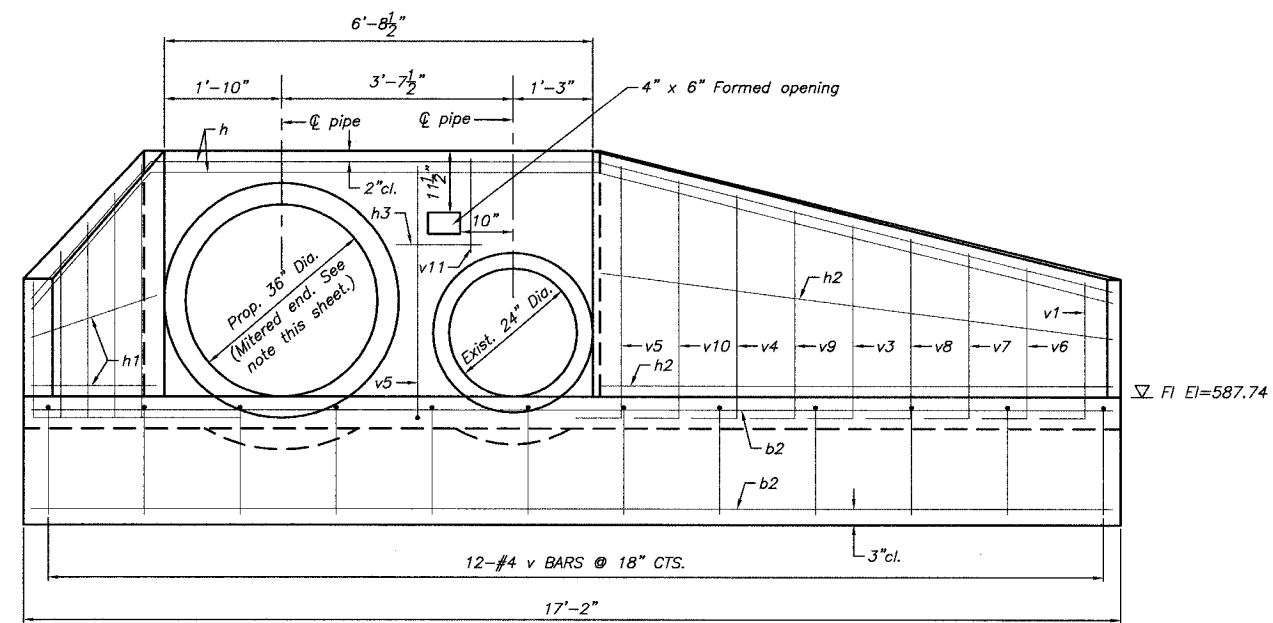
OAK PARK AVENUE RECONSTRUCTION
 115TH STREET TO 111TH STREET
 LANDSCAPING, EROSION CONTROL,
 PAVEMENT MARKING, AND SIGNING

WORTH ILLINOIS

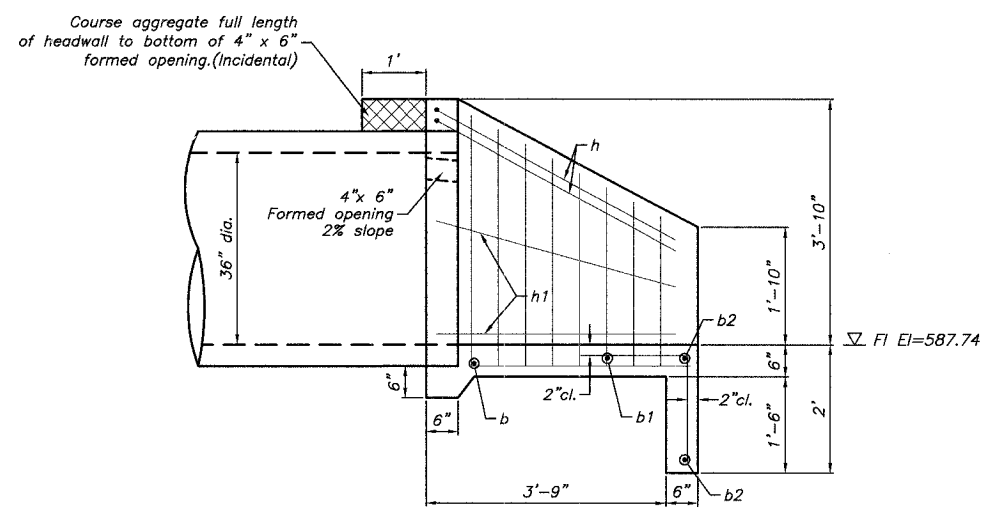
Drawn by: EC/EDG Date: 3/31/04
 Checked by: JN Scale: 1"=50'
 Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks

Contract 83819



ELEVATION
SCALE: 3/4" = 1'-0"

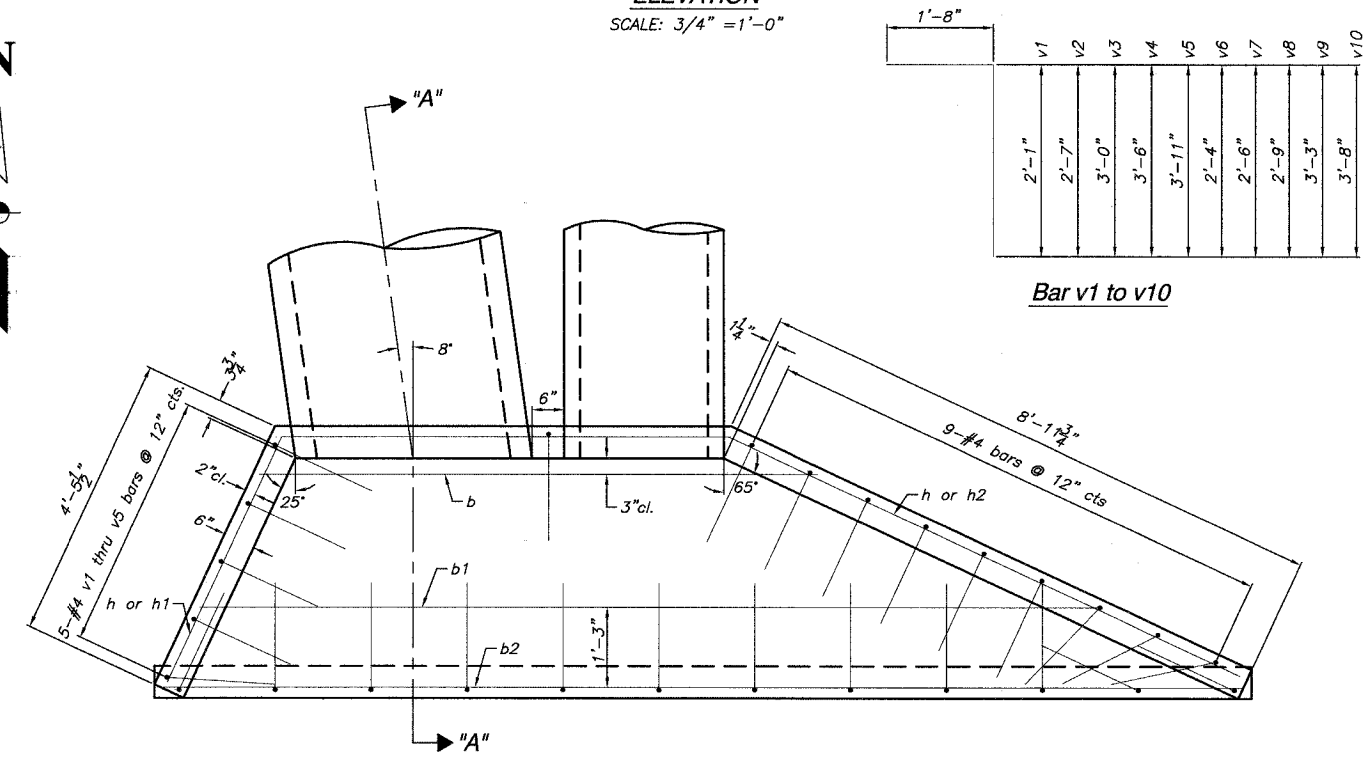
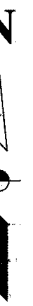


SECTION A-A
SCALE: 3/4" = 1'-0"

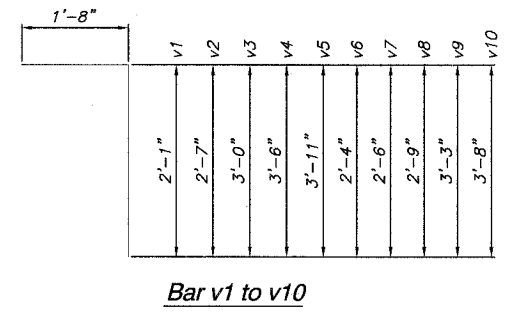
Bill of Materials

Bar	No.	Size	Length	Shape
b	1	#4	8'-8"	—
b1	1	#4	14'-0"	—
b2	2	#4	16'-10"	—
h	2	#4	20'-7"	∩
h1	2	#4	4'-2"	—
h2	2	#4	8'-9"	—
h3	1	#4	1'-3"	—
v	12	#4	3'-4"	└
v1	2	#4	3'-9"	└
v2	1	#4	4'-3"	└
v3	2	#4	4'-8"	└
v4	2	#4	5'-2"	└
v5	3	#4	5'-7"	└
v6	1	#4	4'-0"	└
v7	1	#4	4'-2"	└
v8	1	#4	4'-5"	└
v9	1	#4	4'-11"	└
v10	1	#4	5'-4"	└
v11	1	#4	1'-5"	—
CLASS SI CONCRETE*			CU. YDS.	2.5
REINFORCEMENT BARS*			POUNDS	158

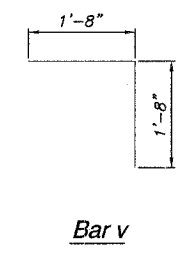
* THESE ITEMS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONCRETE HEADWALLS AND CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS.



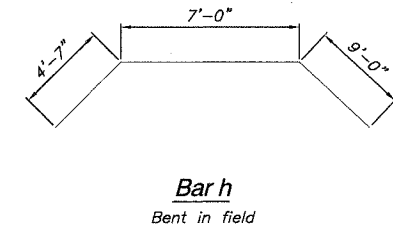
PLAN VIEW
SCALE: 3/4" = 1'-0"



Bar v1 to v10



Bar v



Bar h
Bent in field

Notes:

- 2" clearance to be maintained throughout unless otherwise noted.
- Class SI concrete to be used throughout.
- Chamfer all exposed edges 3/4" minimum.
- Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
- End of 36" dia. pipe to be manufactured with mitered end so as to be flush with face of headwall.
- Geotechnical filter fabric shall be provided at the 4" x 6" formed opening in accordance with articles 502.01 and 503.12 of the Standard Specifications.

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OAK PARK AVENUE RECONSTRUCTION
115TH STREET TO 111TH STREET
STORM SEWER OUTFALL-HEADWALL DETAIL
STA 00+41

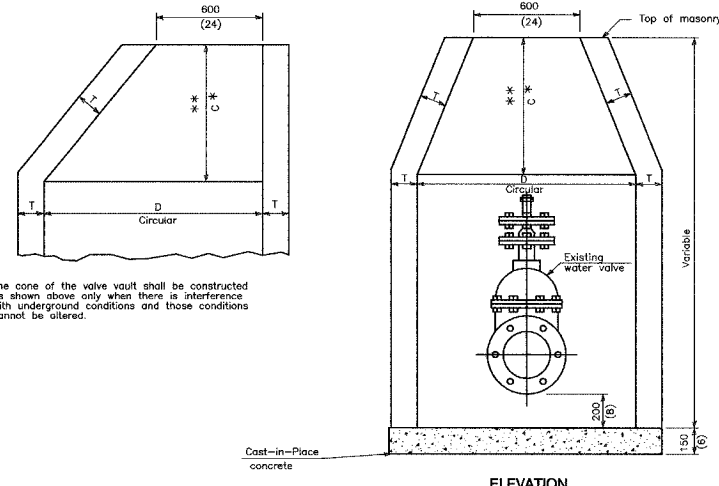
WORTH ILLINOIS

Drawn by: EC, AG Date: 3/31/04
Checked by: AJ Scale: 3/4" = 1'-0"
Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks

FAIL. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	25
STA.		TO STA.		
FED. ROAD DIST. NO.	LINKS	FED. AID PROJECT		

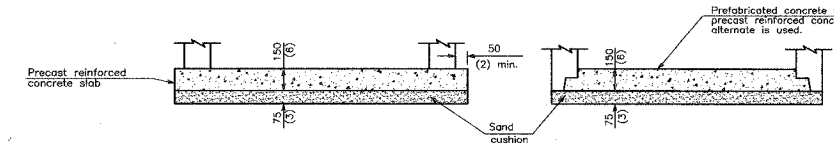
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The cone of the valve vault shall be constructed as shown above only when there is interference with underground conditions and those conditions cannot be altered.

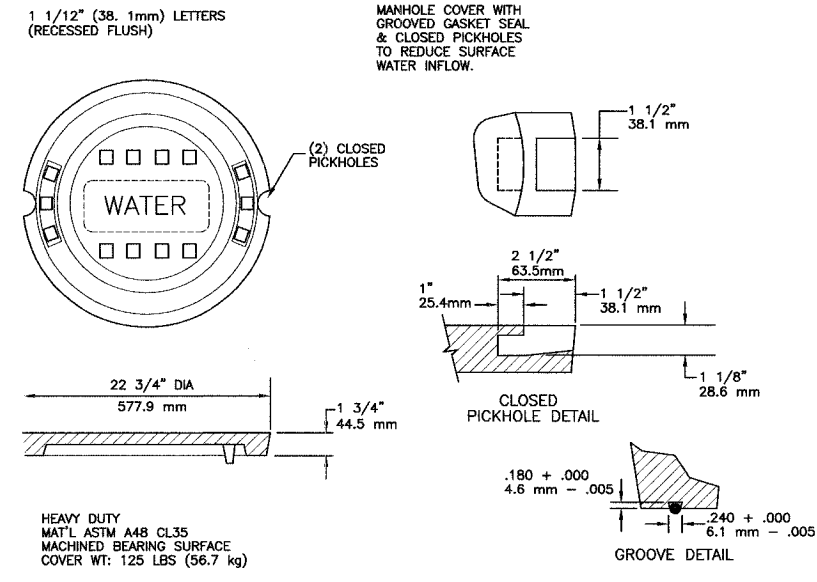
ALTERNATE MATERIALS FOR WALLS	D	C	T (min.)
Precast Reinforced Concrete Section	1.2 m (4'-0")	750 (30)	100 (4)
	1.5 m (5'-0")	1,115 m (3'-9")	125 (5)

DIAMETER OF WATER MAIN	D
200 (8) and under	1.2 m (4'-0")
250 (10) and over	1.5 m (5'-0")

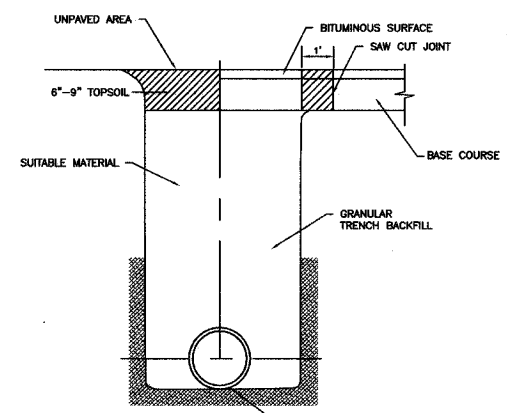


*** GENERAL NOTES**
 Dimension "C" for Precast Reinforced Concrete Section may vary from the dimension given to plus 150 mm (6").
 See DETAIL 602601 for optional Precast Reinforced Concrete Flat Top Slab.
 All dimensions are in millimeters (inches) unless otherwise shown.

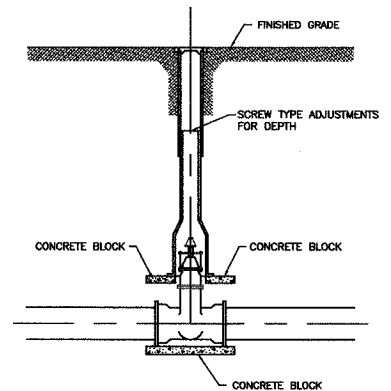
VALVE VAULT TYPE A



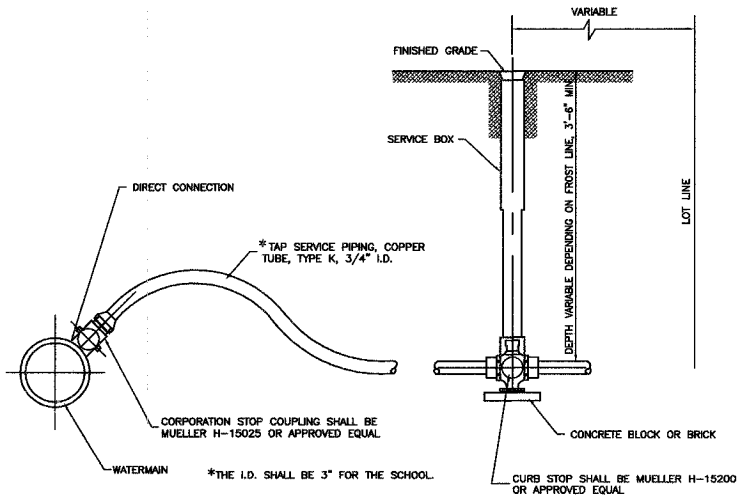
SPECIAL LETTERED MANHOLE COVER
E.J.I.W. 1022Z3



TRENCH BACKFILL DETAIL FOR WATERMAIN



TYPICAL VALVE BOX INSTALLATION



TYPICAL WATER SERVICE INSTALLATION

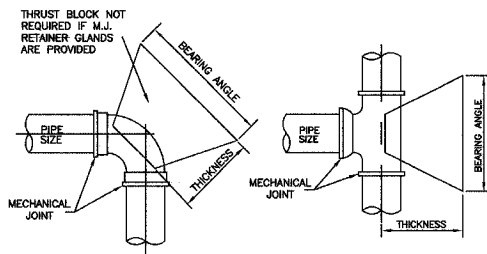
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Checked by: WD	Scale: NONE		
Sheet: of	Project No. 02-162		

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

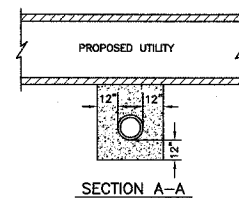
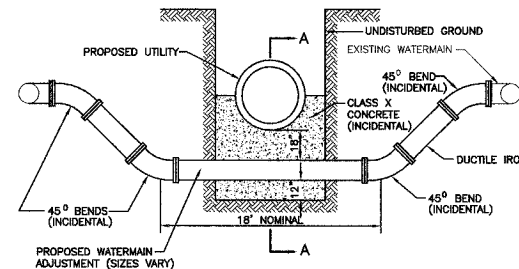
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MAIN PIPE SIZE	TEE	90° BEND	45° BEND	BLOCK THICKNESS
4"				
6"				
8"				
10"				
12"				
14"	18.0	23.8	13.75	18"
16"	23.0	30.0	18.0	24"
18"	31.0	42.0	24.0	24"
20"	38.5	54.25	28.5	30"
24"	58.0	78.0	42.25	30"

FIGURES BASED ON 100 PSI WATER PRESSURE AND 10,000 PSI SOIL BEARING. PROVIDE "LOW F-1058" MECHANICAL JOINT RETAINER GLANDS ON WATER MAIN FITTINGS 3" DIA. TO 12" DIA.. ALL WATER MAIN FITTINGS TO BE MECHANICAL JOINTS.



THRUST BLOCK PLAN



DETAIL OF WATERMAIN ADJUSTMENT

653.119 PROTECTION OF WATER MAIN AND WATER SERVICE LINES

WATER MAINS AND WATER SERVICE LINES SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, HOUSE SEWER SERVICE CONNECTIONS AND DRAINS AS FOLLOWS:

- A) WATER MAINS:
 - 1) HORIZONTAL SEPARATION:
 - A) WATER MAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.
 - B) WATER MAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN:
 - i) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET: THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND
 - ii) THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
 - C) BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, ASBESTOS-CEMENT PRESSURE PIPE, PRE STRESSED CONCRETE PIPE, OR PVC PIPE MEETING THE REQUIREMENTS OF SECTION 653.111 WHEN IT IS IMPOSSIBLE TO MEET (A) OR (B) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.
 - 2) VERTICAL SEPARATION:
 - A) A WATER MAIN SHALL BE LAID SO THAT ITS INVERT IS 18" INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
 - B) BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, ASBESTOS-CEMENT PRESSURE PIPE, PRE STRESSED CONCRETE PIPE, OR PVC PIPE MEETING REQUIREMENTS OF SECTION 653.111 WHEN:
 - i) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (A) ABOVE; OR
 - ii) THE WATER MAIN PASSES UNDER A SEWER OR DRAIN.
 - C) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN.
 - D) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET.
- B) WATER SERVICE LINES:
 - 1) THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER SERVICE LINES AND ALL STORM SEWERS, SANITARY SEWERS, COMBINED SEWERS OR ANY DRAIN OR SEWER SERVICE CONNECTION SHALL BE THE SAME AS WATER MAIN SEPARATION DESCRIBED IN (A) ABOVE.
 - 2) WATER PIPE DESCRIBED IN (A) ABOVE SHALL BE USED FOR SEWER SERVICES LINES WHEN MINIMUM HORIZONTAL AND VERTICAL SEPARATION CANNOT BE MAINTAINED.
- C) SPECIAL CONDITIONS - ALTERNATE SOLUTIONS SHALL BE PRESENTED TO THE AGENCY WHEN EXTREME TOPOGRAPHICAL, GEOLOGICAL OR EXISTING STRUCTURAL CONDITIONS MAKE STRICT COMPLIANCE WITH (A) AND (B) ABOVE TECHNICALLY AND ECONOMICALLY IMPRACTICAL. ALTERNATE SOLUTIONS WILL BE APPROVED PROVIDED WATERTIGHT CONSTRUCTION STRUCTURALLY EQUIVALENT TO APPROVED WATER MAIN MATERIAL IS PROPOSED.
- D) WATER MAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS AND SEEPAGE BEDS BY A MINIMUM OF 25 FEET.
- E) WATER MAINS AND WATER SERVICE LINES SHALL BE PROTECTED AGAINST ENTRANCE OF HYDROCARBONS THROUGH DIFFUSION THROUGH ANY MATERIAL USED IN CONSTRUCTION OF THE LINE.

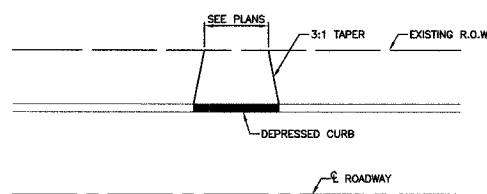
JOINT RESTRAINT TABLE - Unless additional pipe restraint is shown on the Plans, the restrained length measured from the fitting joint to the end of the least restrained joint pipe for pipe fittings shall equal or exceed those tabulated below:

Pipe Size (Inches)	RESTRAINED LENGTH - FEET					
	TEE		FITTINGS		DEAD ENDS	
4	9	10	5	2	1	15
6	17	14	8	3	2	21
8	24	18	8	4	2	27
10	30	22	10	5	3	33
12	36	26	11	6	3	36
14	42	29	12	6	3	44
16	48	33	14	7	4	48
18	53	37	16	8	4	54
20	58	40	17	8	4	60
24	71	49	21	10	5	72
30	87	59	26	12	6	87
36	104	71	30	15	8	105
42	122	86	36	18	9	126
48	146	104	42	21	10	147

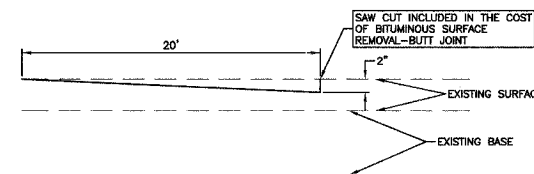
Test Pressure on sizes 20" and smaller based on 100 psi. Test Pressure on sizes 24" and larger based on 150 psi. Increase all lengths in Table by 75% for use on polyethylene wrapped pipe. *One full length (18') of pipe on both sides of branch to be restrained.

DUCTILE IRON JOINT RESTRAINT TABLE

NOTE: FOR BIDDING PURPOSES ONLY. CONTRACTOR TO SUBMIT DESIGN CALCULATIONS PRIOR TO CONSTRUCTION.



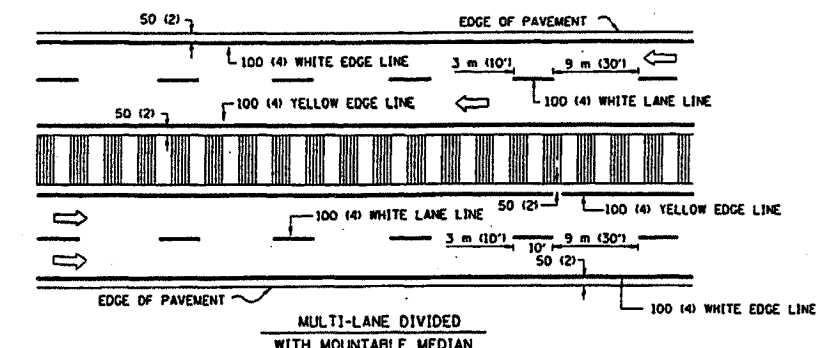
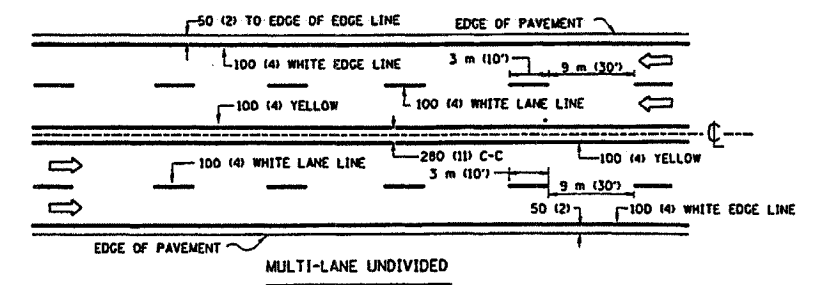
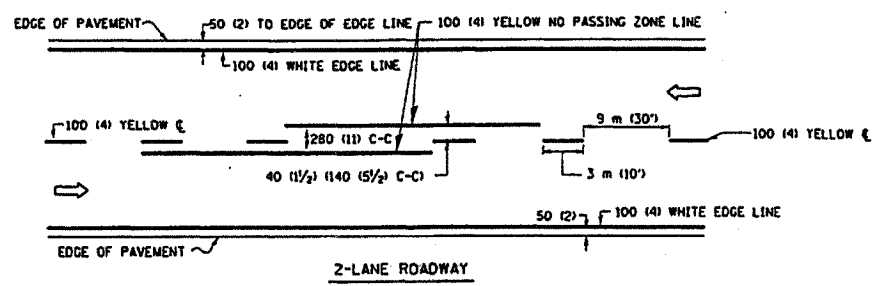
BITUMINOUS DRIVEWAY DETAIL



BUTT JOINT DETAIL

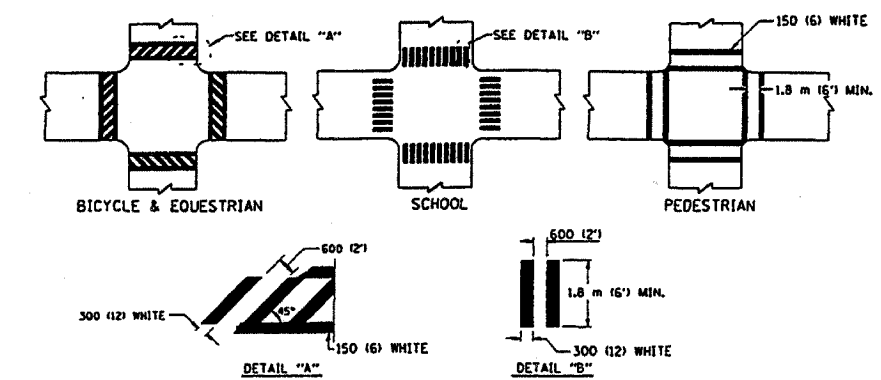
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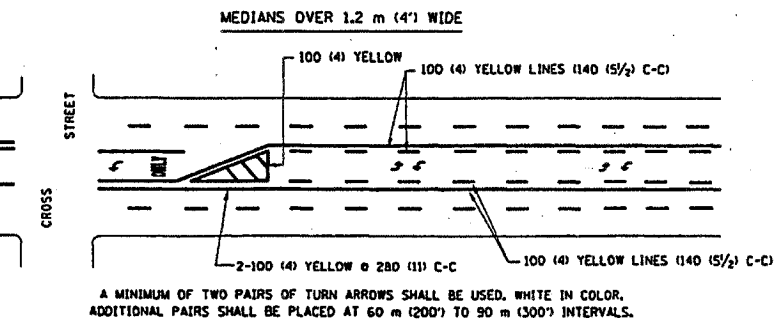
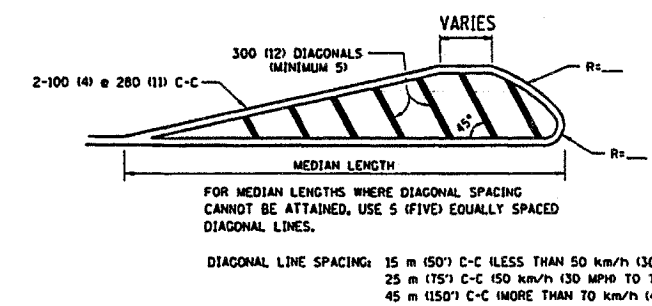
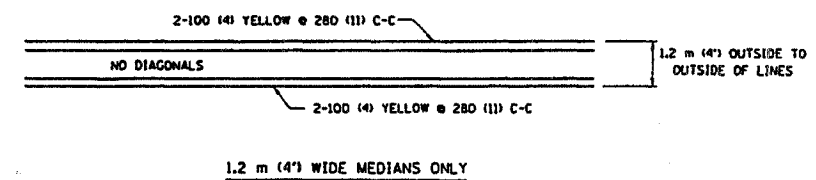


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

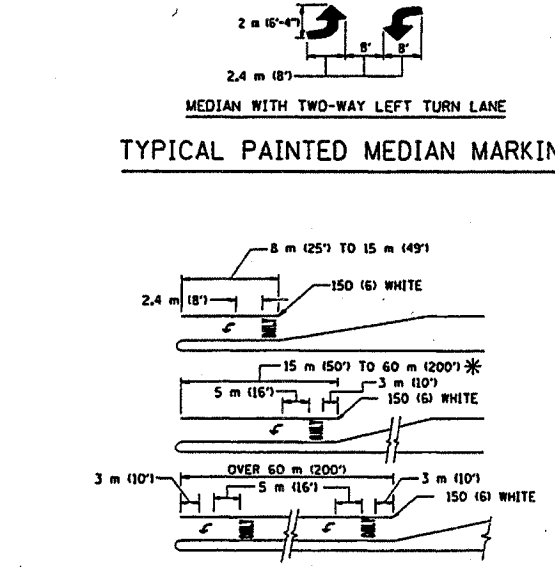
TYPICAL LANE AND EDGE LINE MARKING



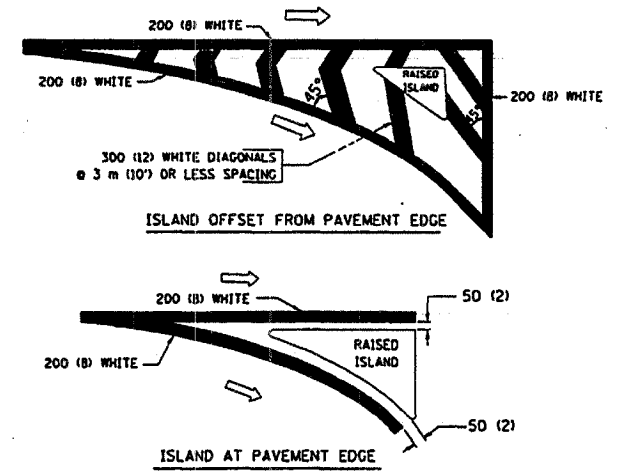
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL 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 FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER LANE OR TURN LANE MARKINGS)	SAME AS 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 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN & BICYCLE & EQUESTRIAN) 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 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 CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE 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" 15 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.35m ² (3.6 SO. FT.) EACH "X"=5.0 m ² (54.0 SO. 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))

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

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

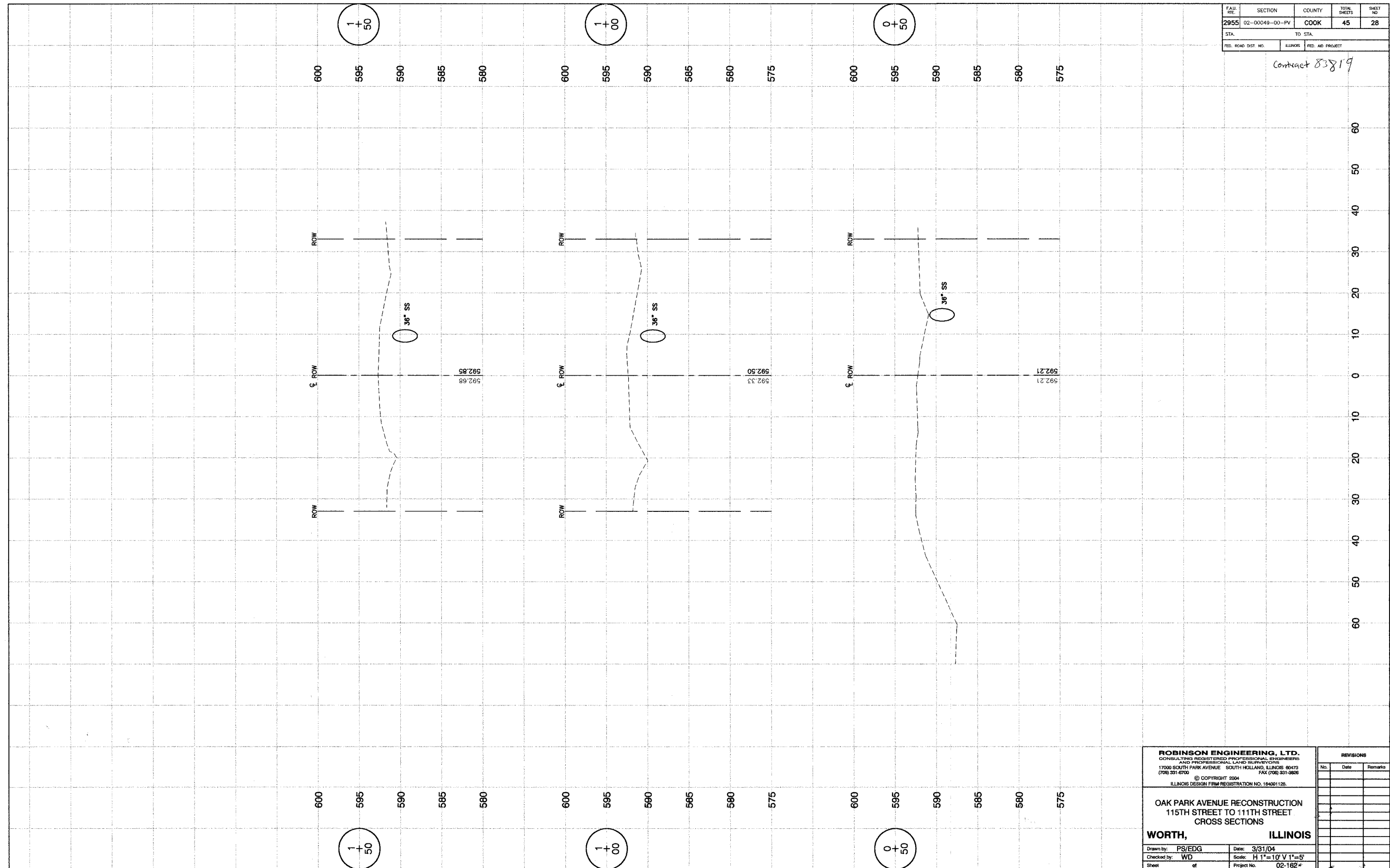
REVISIONS	NAME	DATE
1	EVERS	03-19-90
2	T. RAMMACHER	10-27-94
3	ALEX HOUSEH	10-09-96
4	ALEX HOUSEH	10-17-96
5	T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS
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CHECKED BY

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115TH STREET TO 111TH STREET
DISTRICT 1 DETAILS
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FAU. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

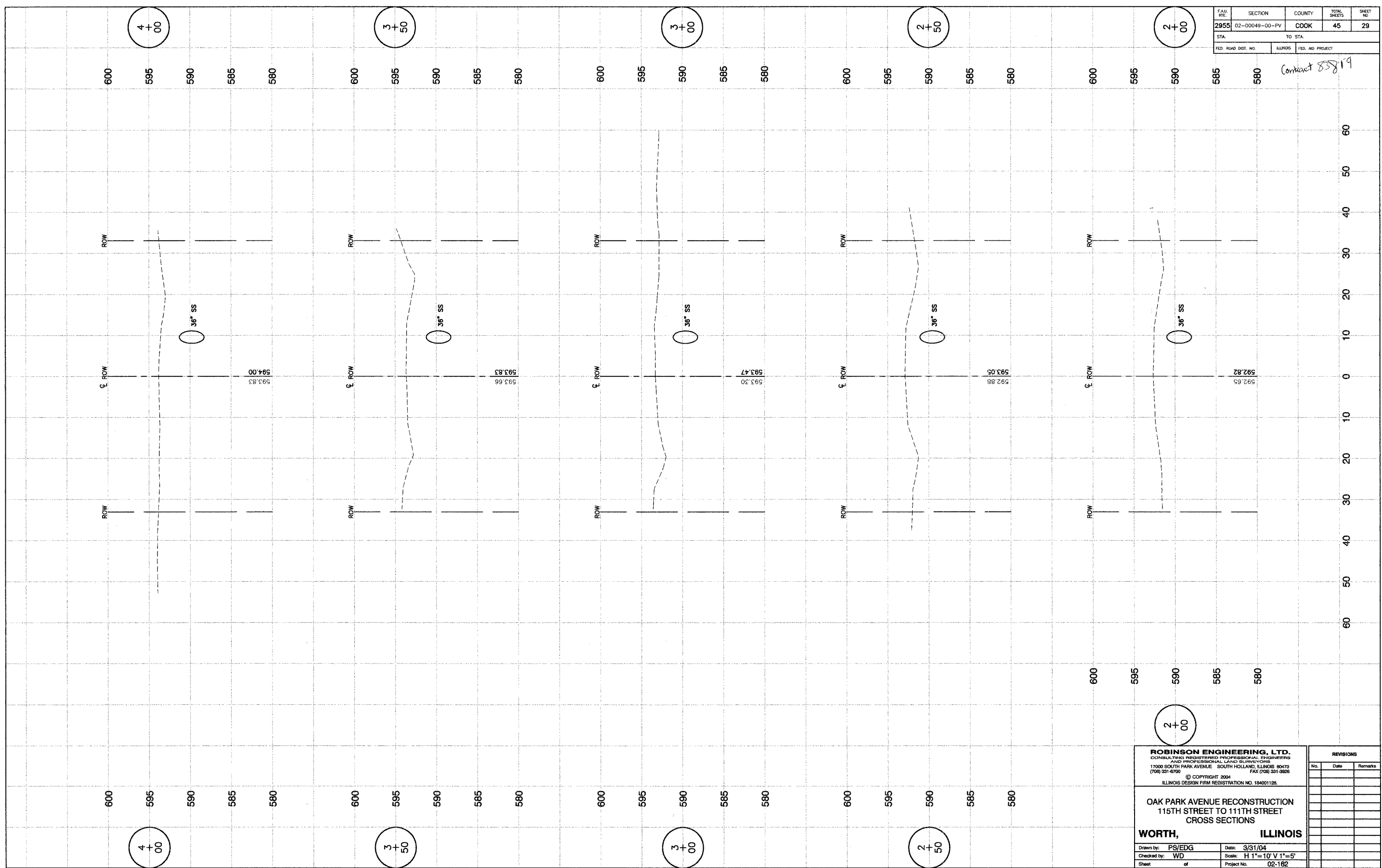
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Sheet of	Project No. 02-1624		

FAU. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-FV	COOK	45	29
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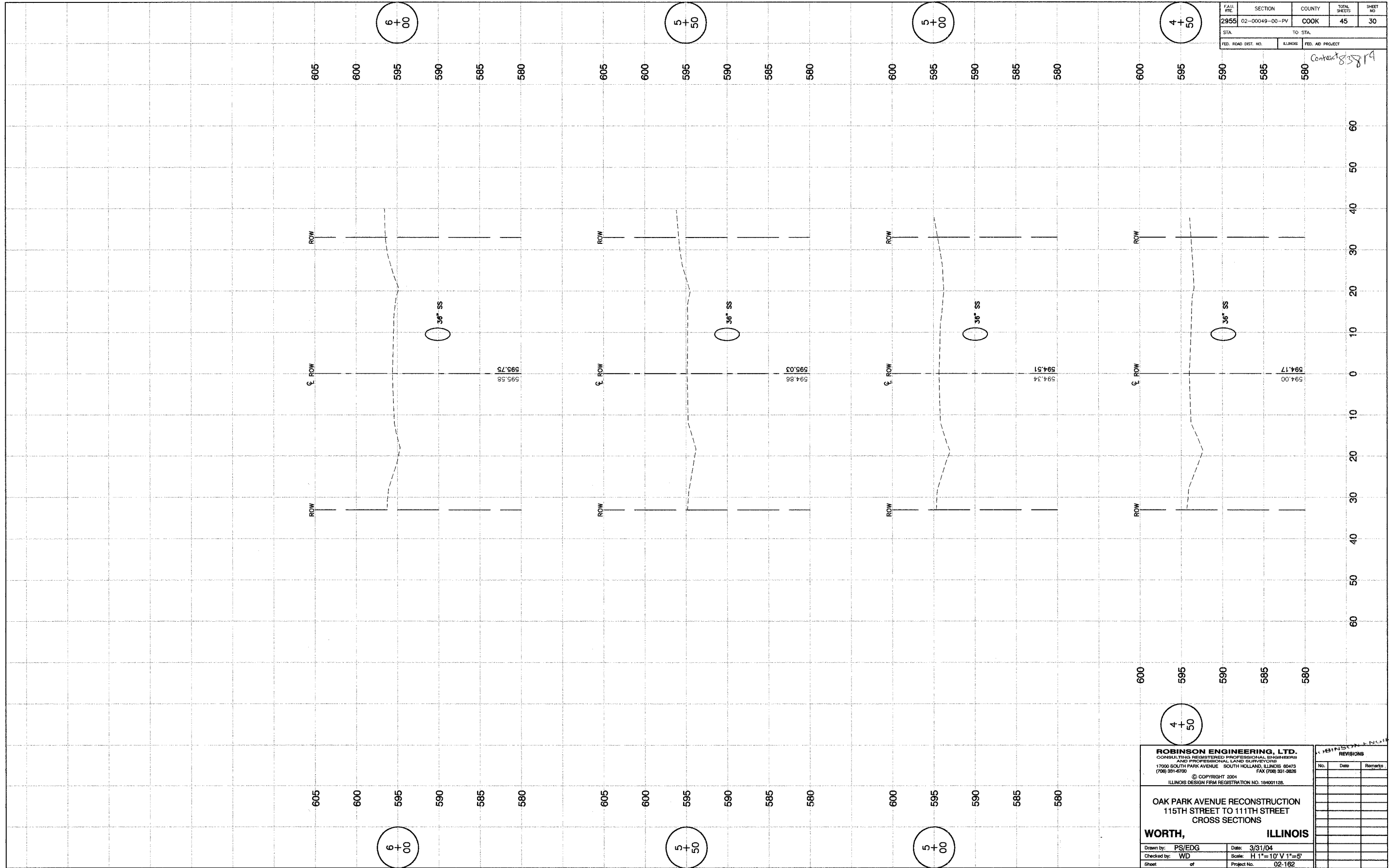
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No.	Date	Remarks

FAU. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-0049-00-PV	COOK	45	30
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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115TH STREET TO 111TH STREET
CROSS SECTIONS**

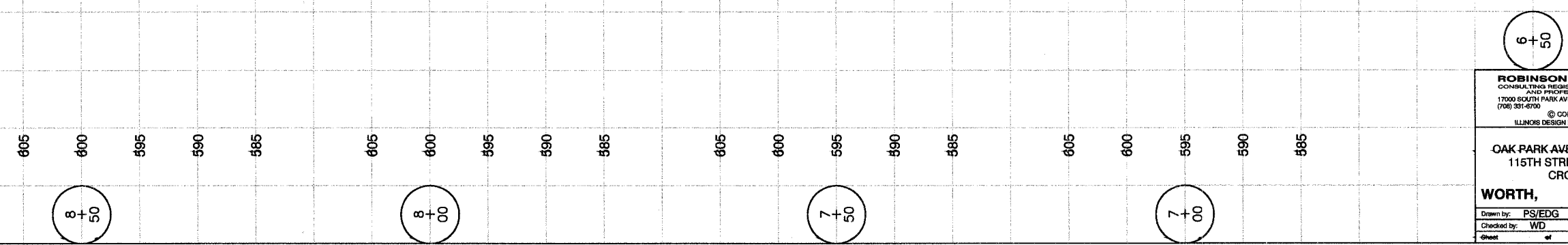
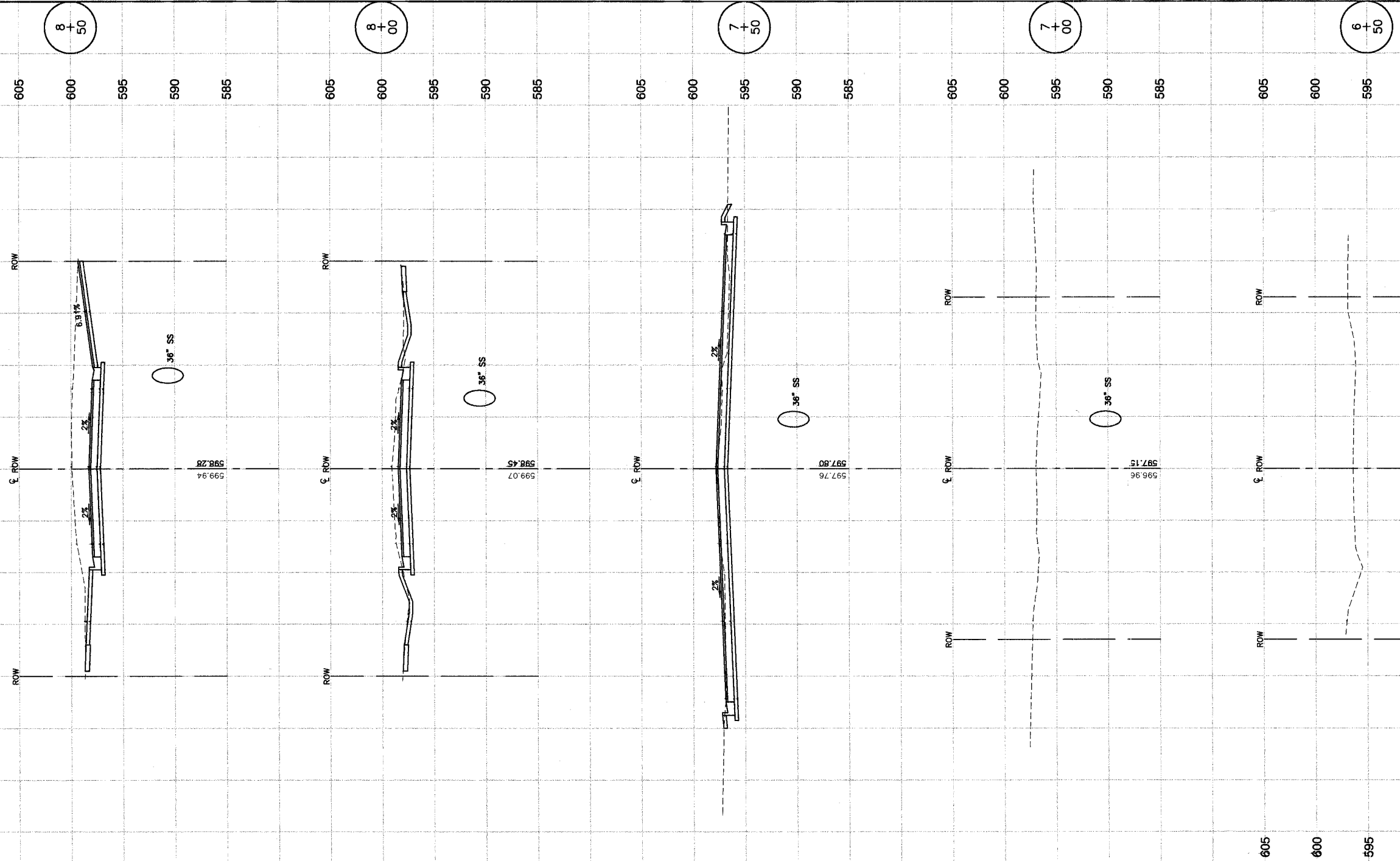
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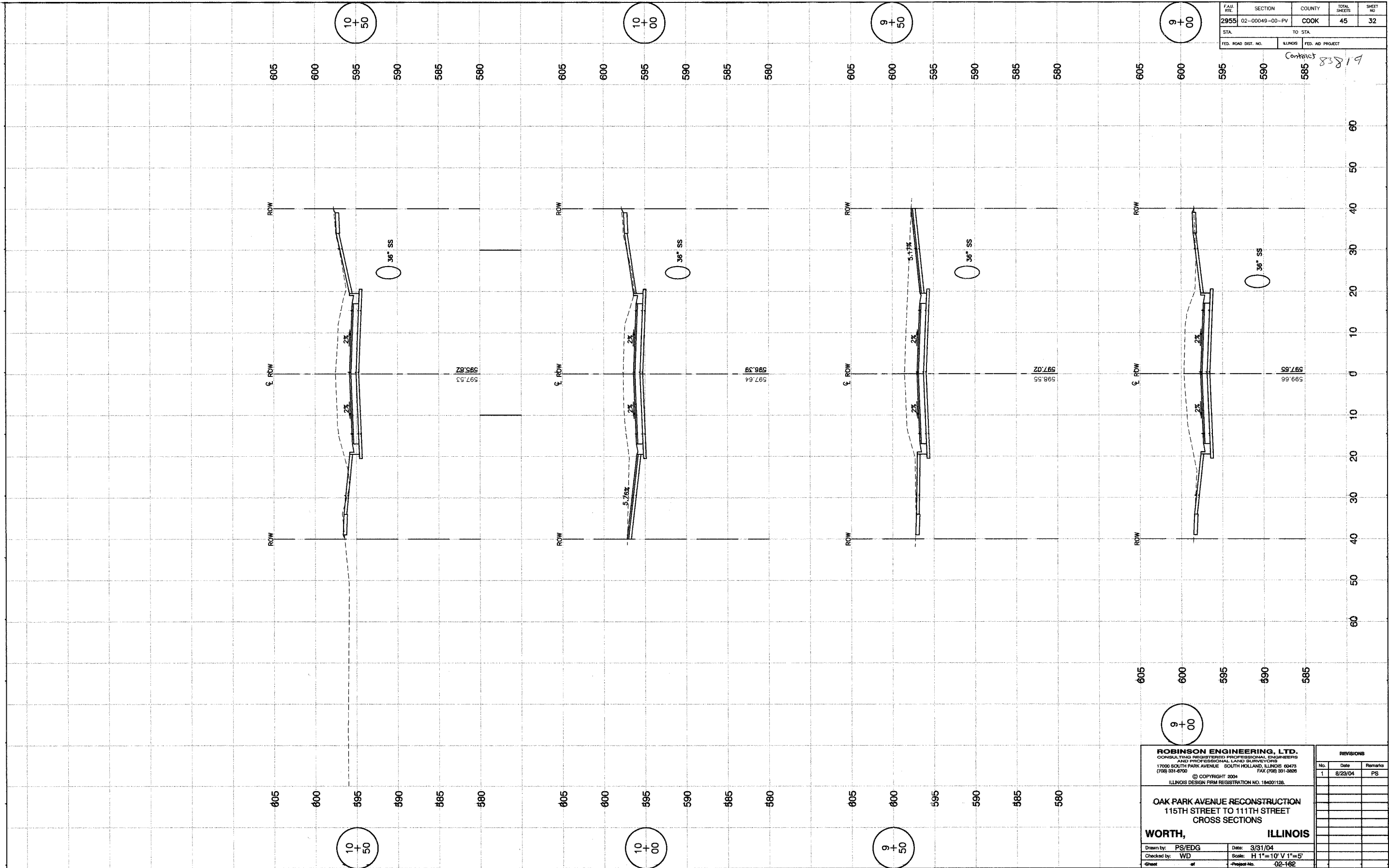
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 115TH STREET TO 111TH STREET
 CROSS SECTIONS**

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115TH STREET TO 111TH STREET
CROSS SECTIONS**

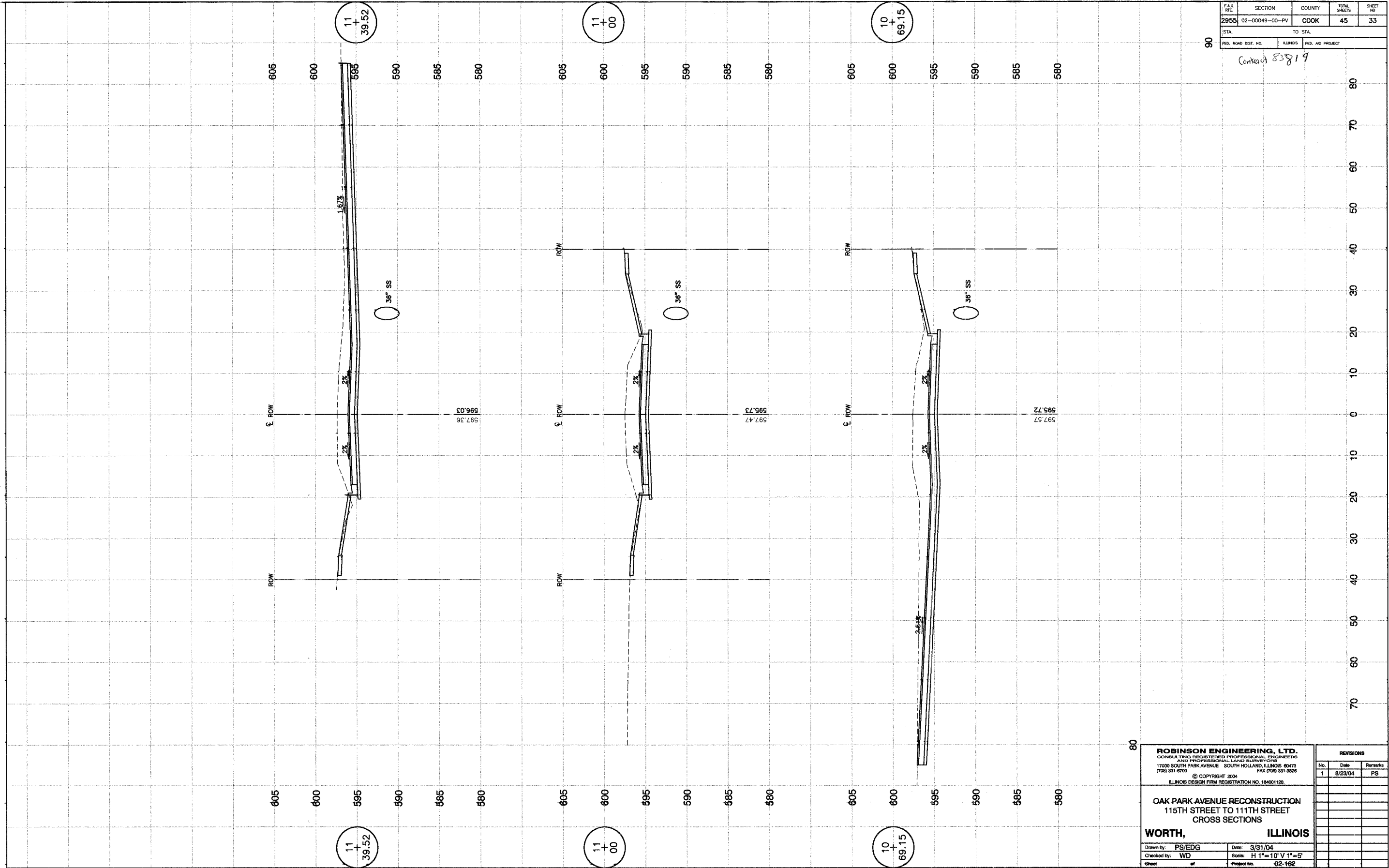
WORTH, ILLINOIS

Drawn by: PS/EDG Date: 3/31/04
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Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8/23/04	PS

F.A.U. RITE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	33
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Contact 83819



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**OAK PARK AVENUE RECONSTRUCTION
115TH STREET TO 111TH STREET
CROSS SECTIONS**

WORTH, ILLINOIS

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Sheet of Project No. 02-162

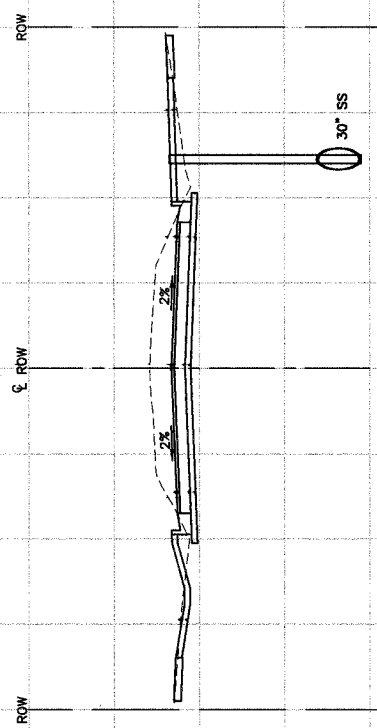
REVISIONS		
No.	Date	Remarks
1	8/23/04	PS

FAA SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	34
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Contract 83819

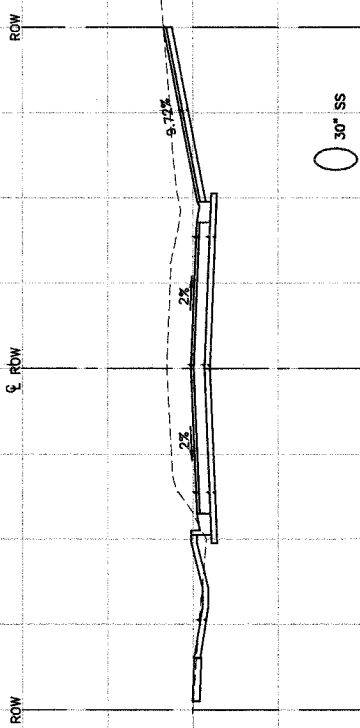
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605
600
595
590
585

13
+
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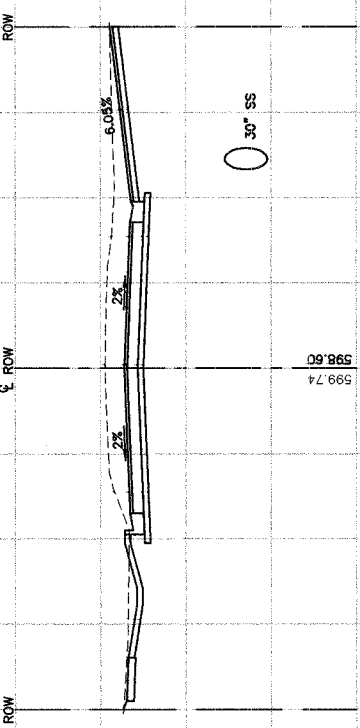
610
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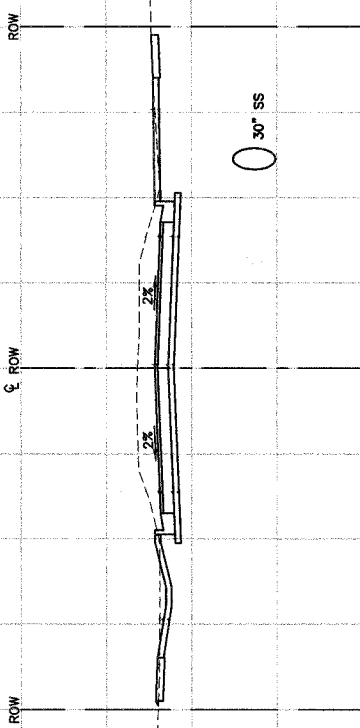
605
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**OAK PARK AVENUE RECONSTRUCTION
115TH STREET TO 111TH STREET
CROSS SECTIONS**

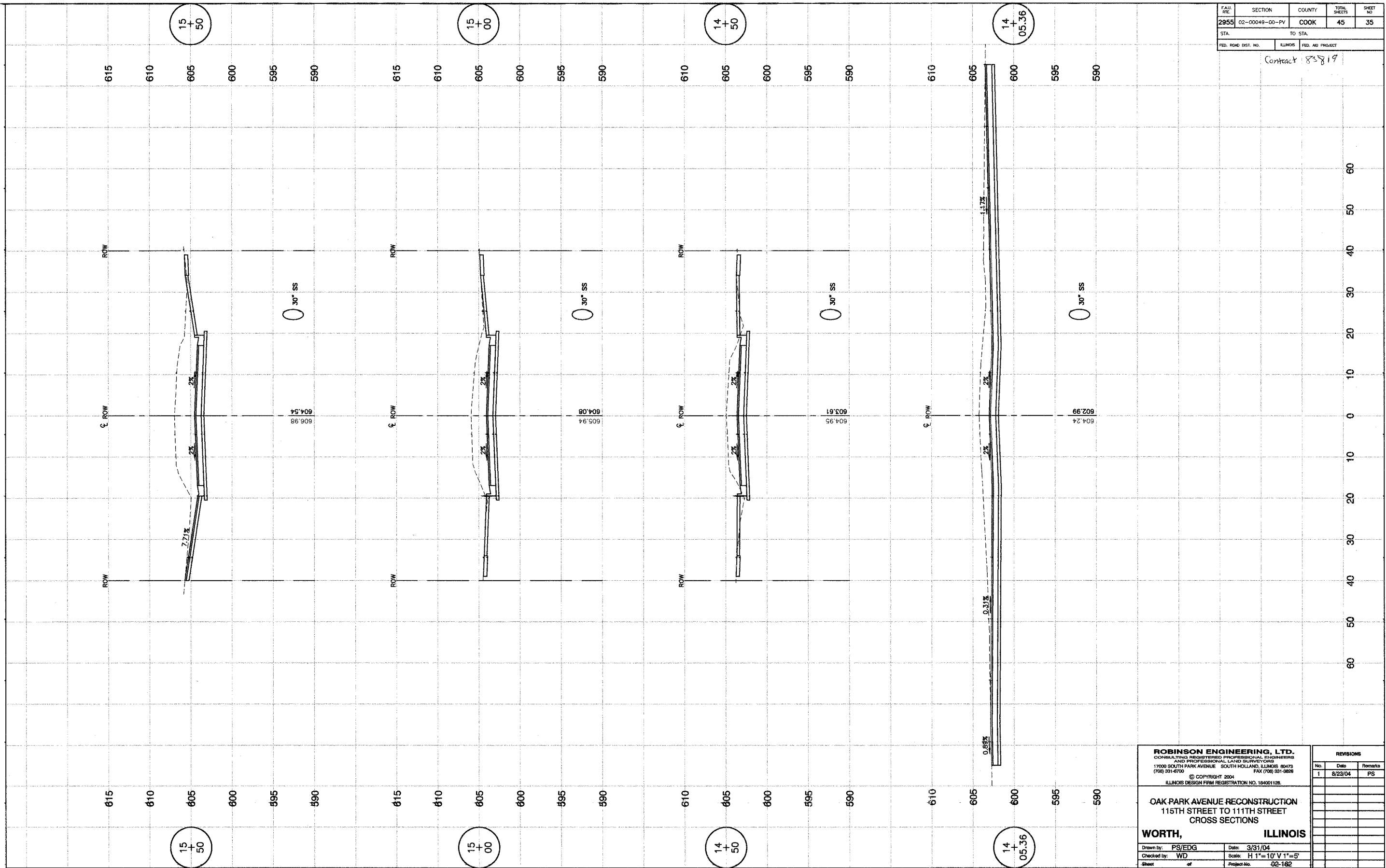
WORTH, ILLINOIS

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Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8/23/04	PS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-0049-00-PV	COOK	45	35
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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CROSS SECTIONS**

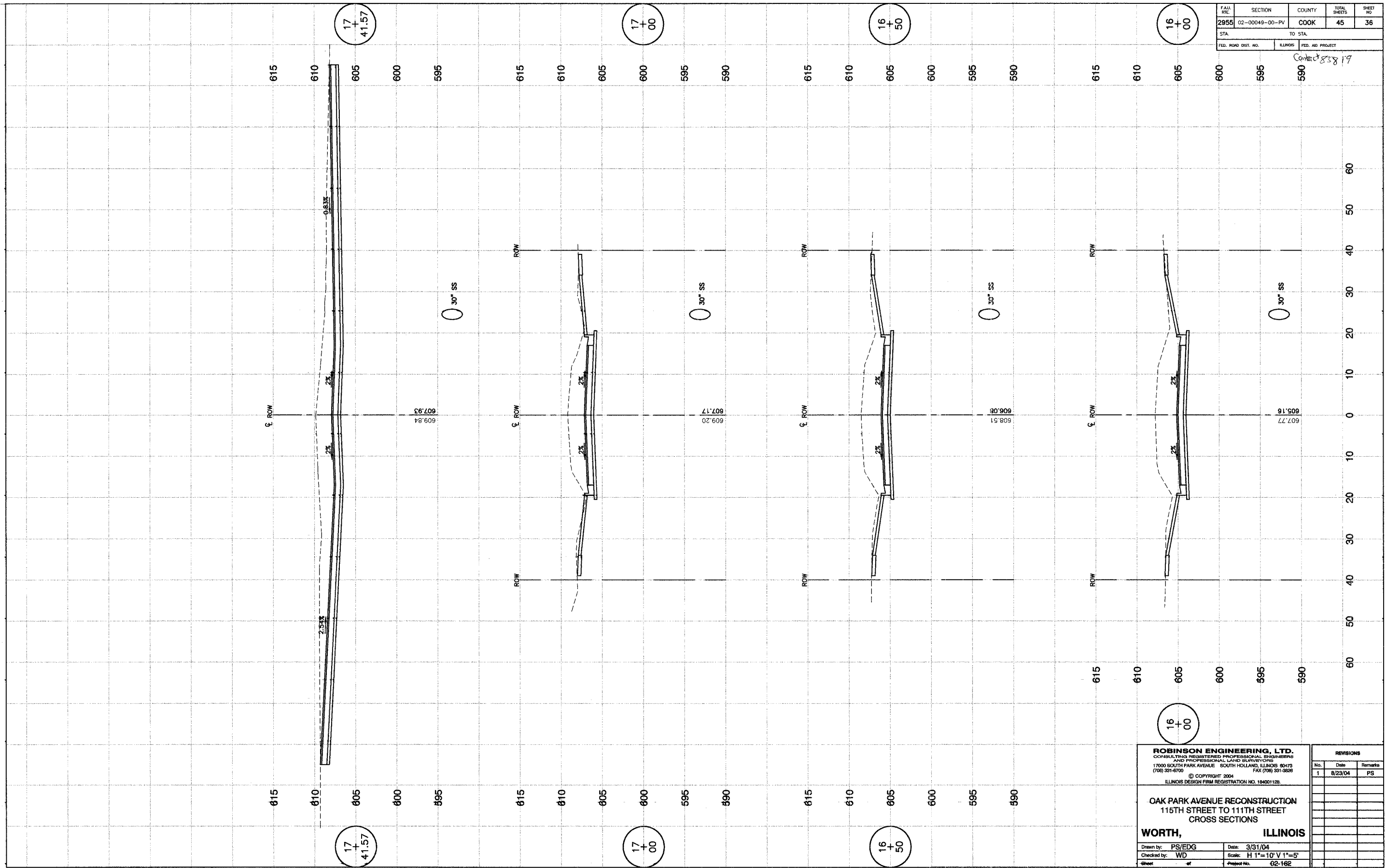
WORTH, ILLINOIS

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Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8/23/04	PS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	36
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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115TH STREET TO 111TH STREET
CROSS SECTIONS**

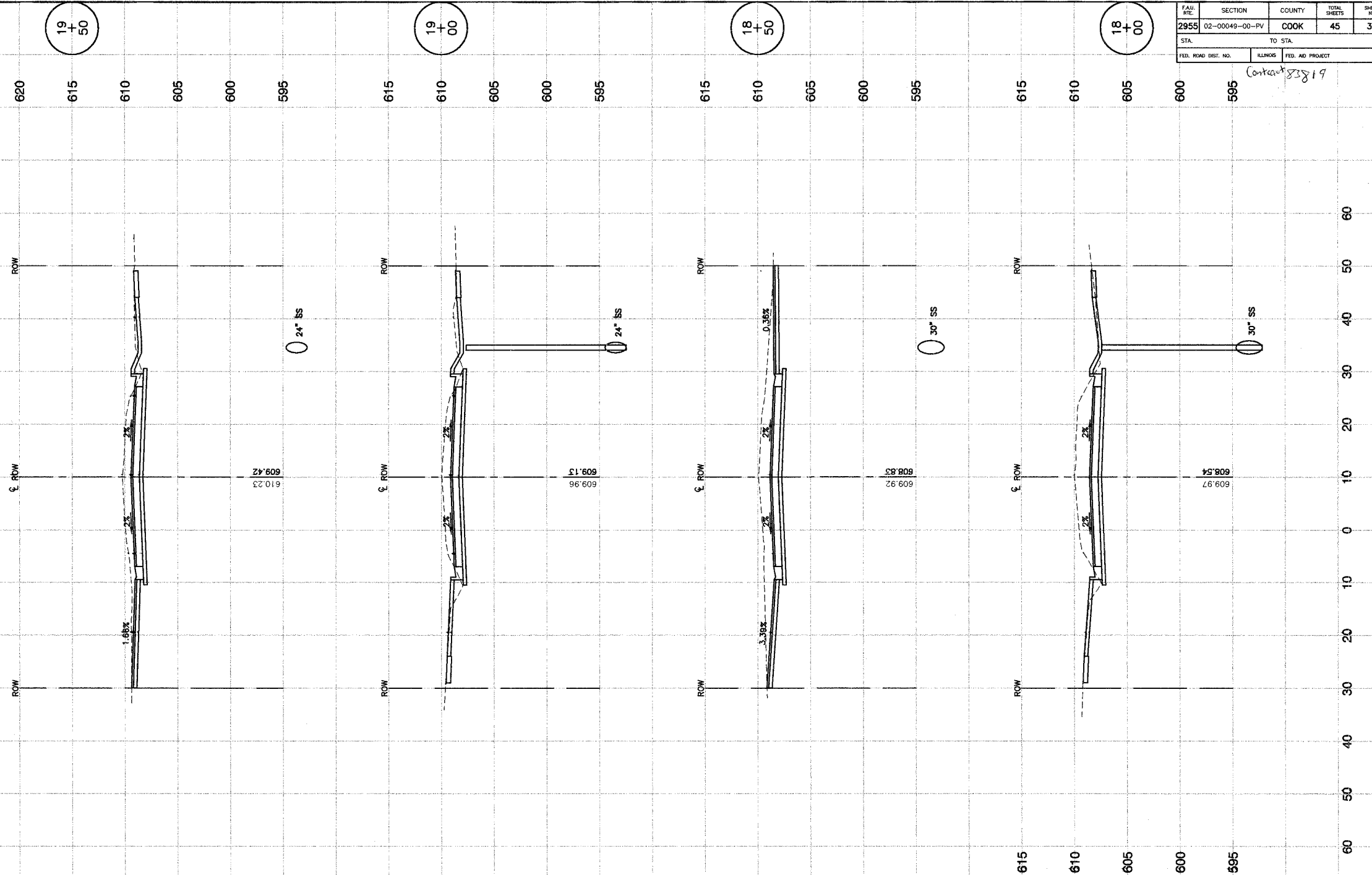
WORTH, ILLINOIS

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Sheet of Project No. 02-162

REVISIONS			
No.	Date	Remarks	PS
1	8/23/04		PS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	37
STA.		TO STA.		
FED. ROAD DIST. NO.		FED. AID PROJECT		

Contract 83819



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115TH STREET TO 111TH STREET
CROSS SECTIONS**

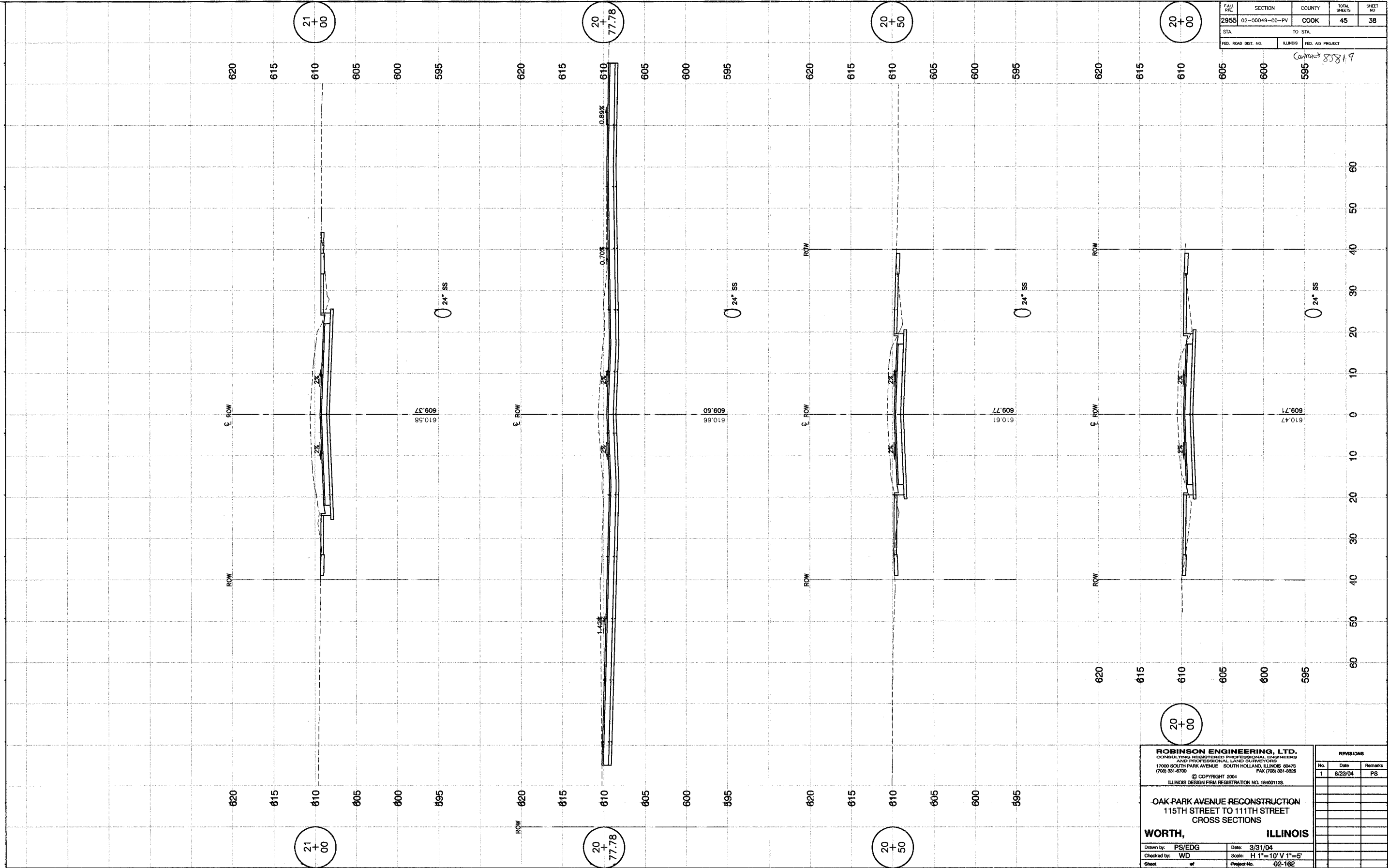
WORTH, ILLINOIS

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Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8/23/04	PS

FAU. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	38
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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 115TH STREET TO 111TH STREET
 CROSS SECTIONS**

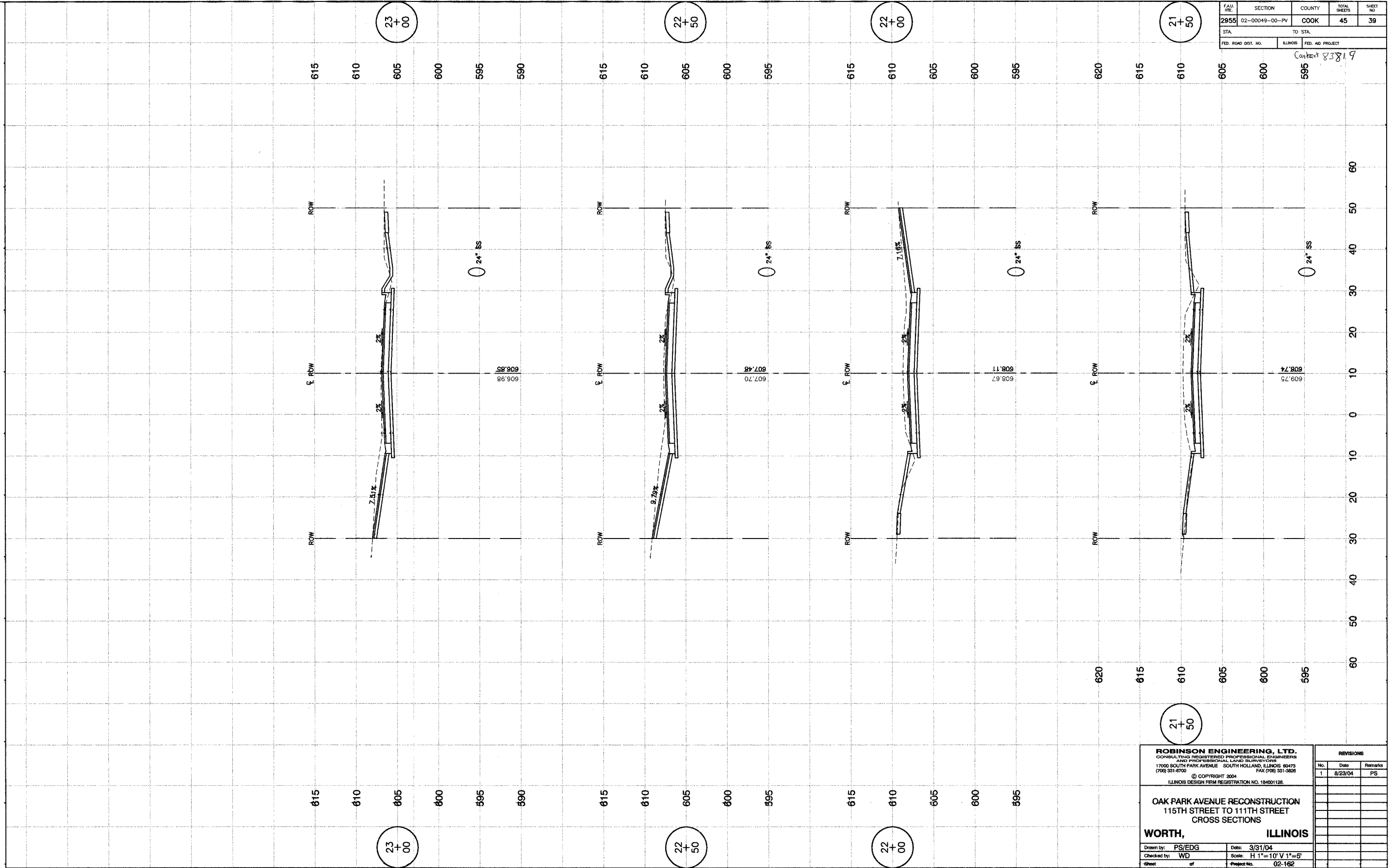
WORTH, ILLINOIS

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 Checked by: WD Scale: H 1"=10' V 1"=5'
 Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8/23/04	PS

FAU. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	39
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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115TH STREET TO 111TH STREET
CROSS SECTIONS**

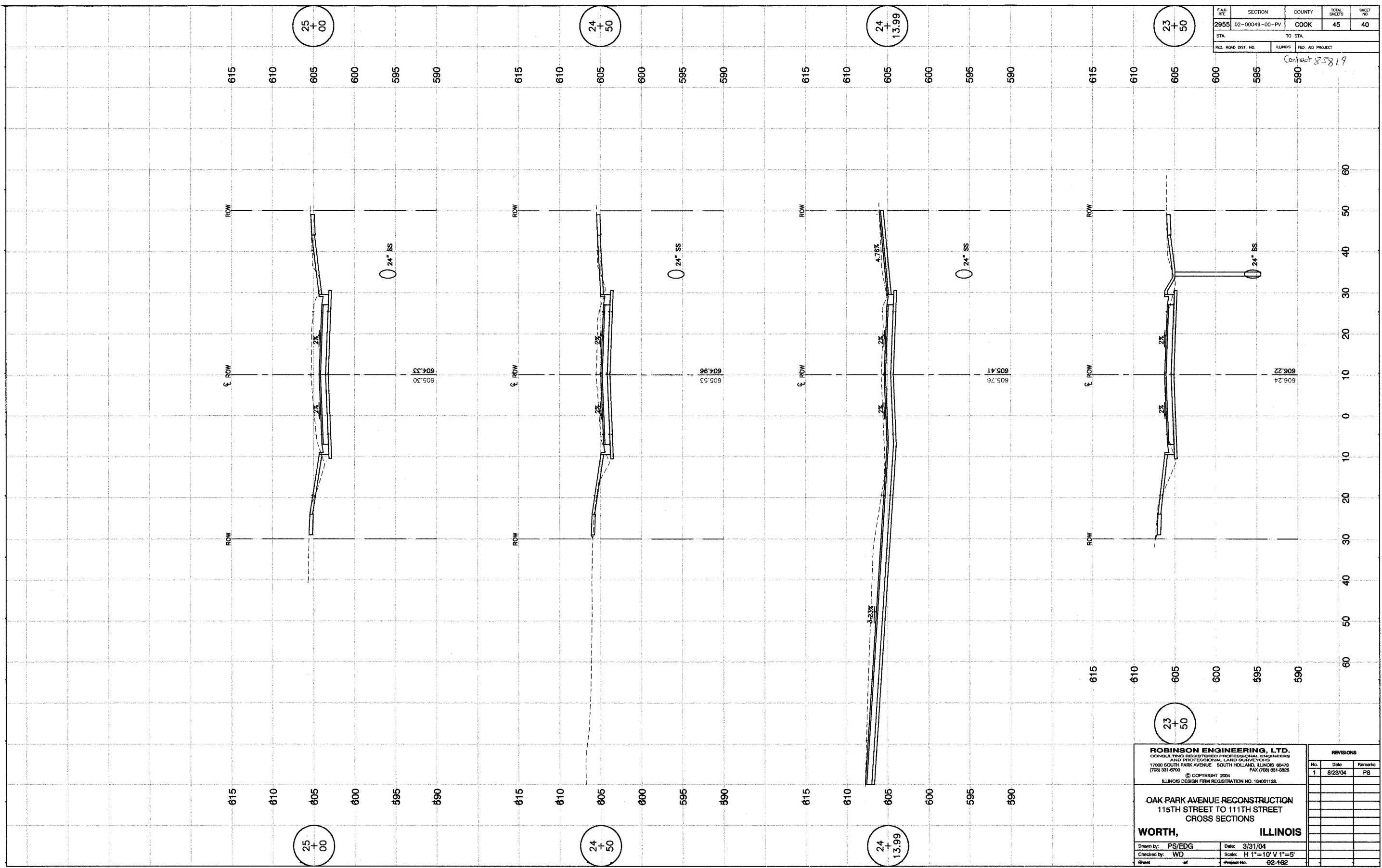
WORTH, ILLINOIS

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Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8/23/04	PS

FAU. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	40
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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**OAK PARK AVENUE RECONSTRUCTION
 115TH STREET TO 111TH STREET
 CROSS SECTIONS**

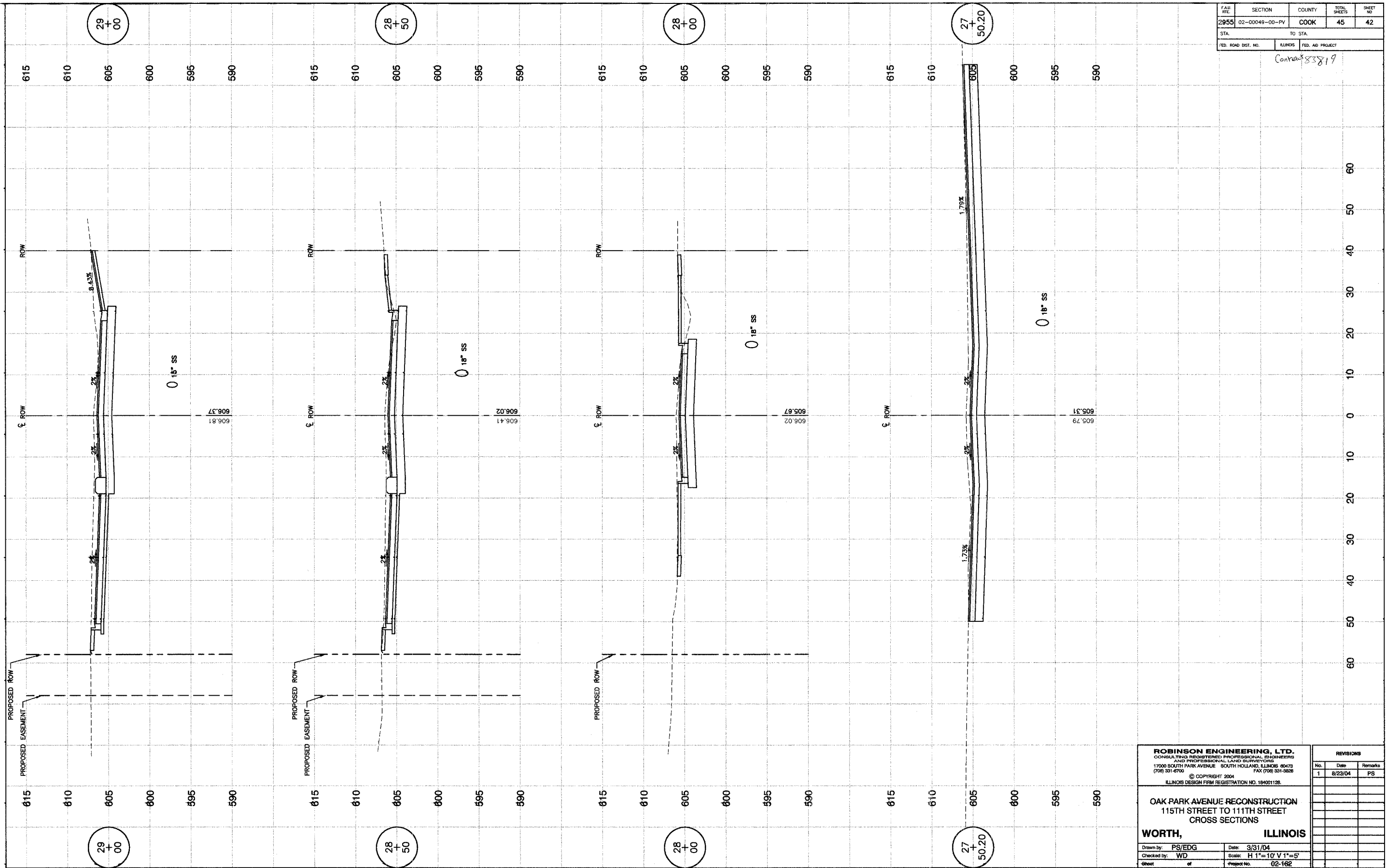
WORTH, ILLINOIS

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 Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8/23/04	PS

FAU. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	42
STA.		TO STA.		
FED. ROAD DIST. NO.		FED. AID PROJECT		

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**OAK PARK AVENUE RECONSTRUCTION
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CROSS SECTIONS**

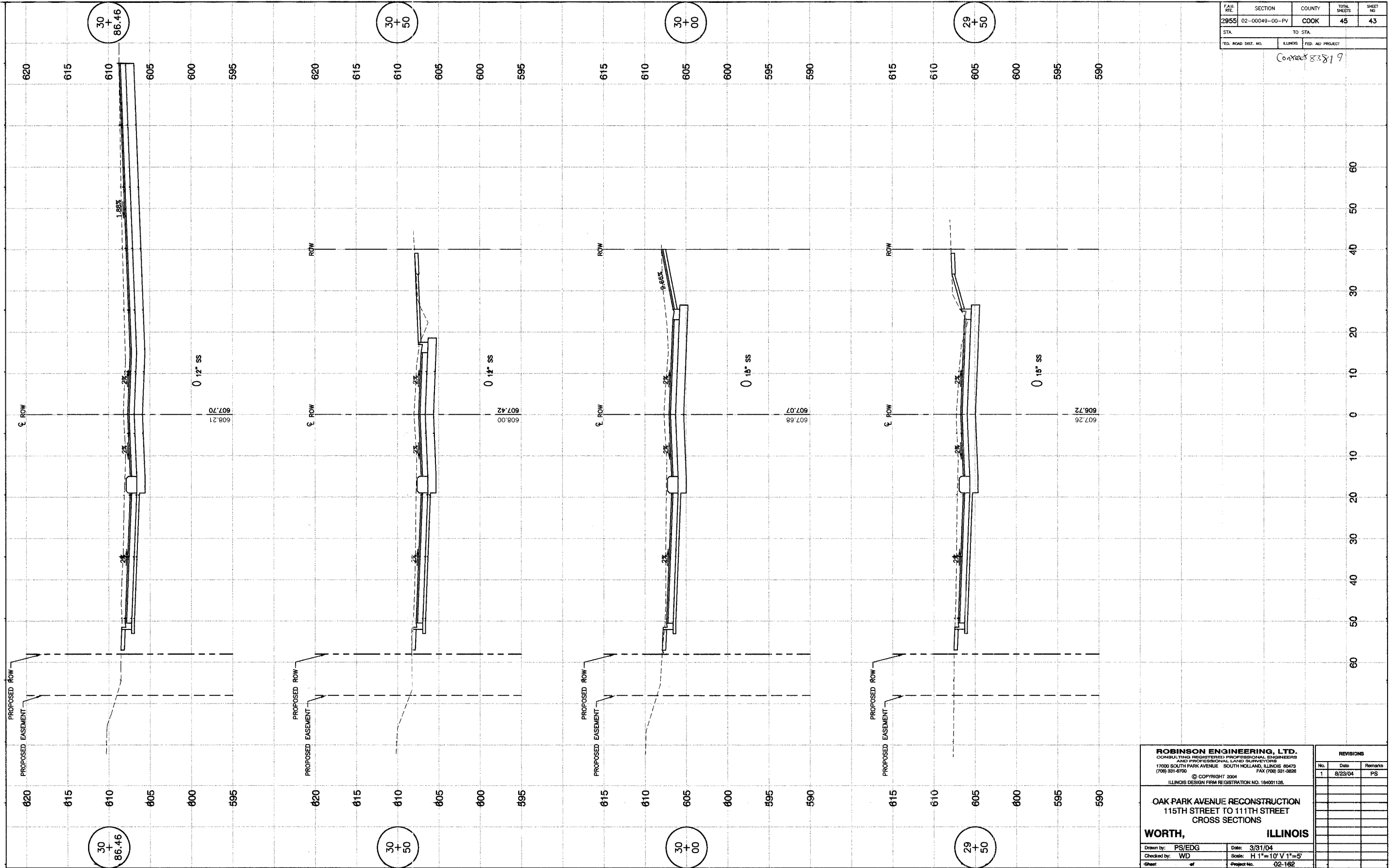
WORTH, ILLINOIS

Drawn by: PS/EDG Date: 3/31/04
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Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8/23/04	PS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-0049-00-PV	COOK	45	43
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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115TH STREET TO 111TH STREET
CROSS SECTIONS**

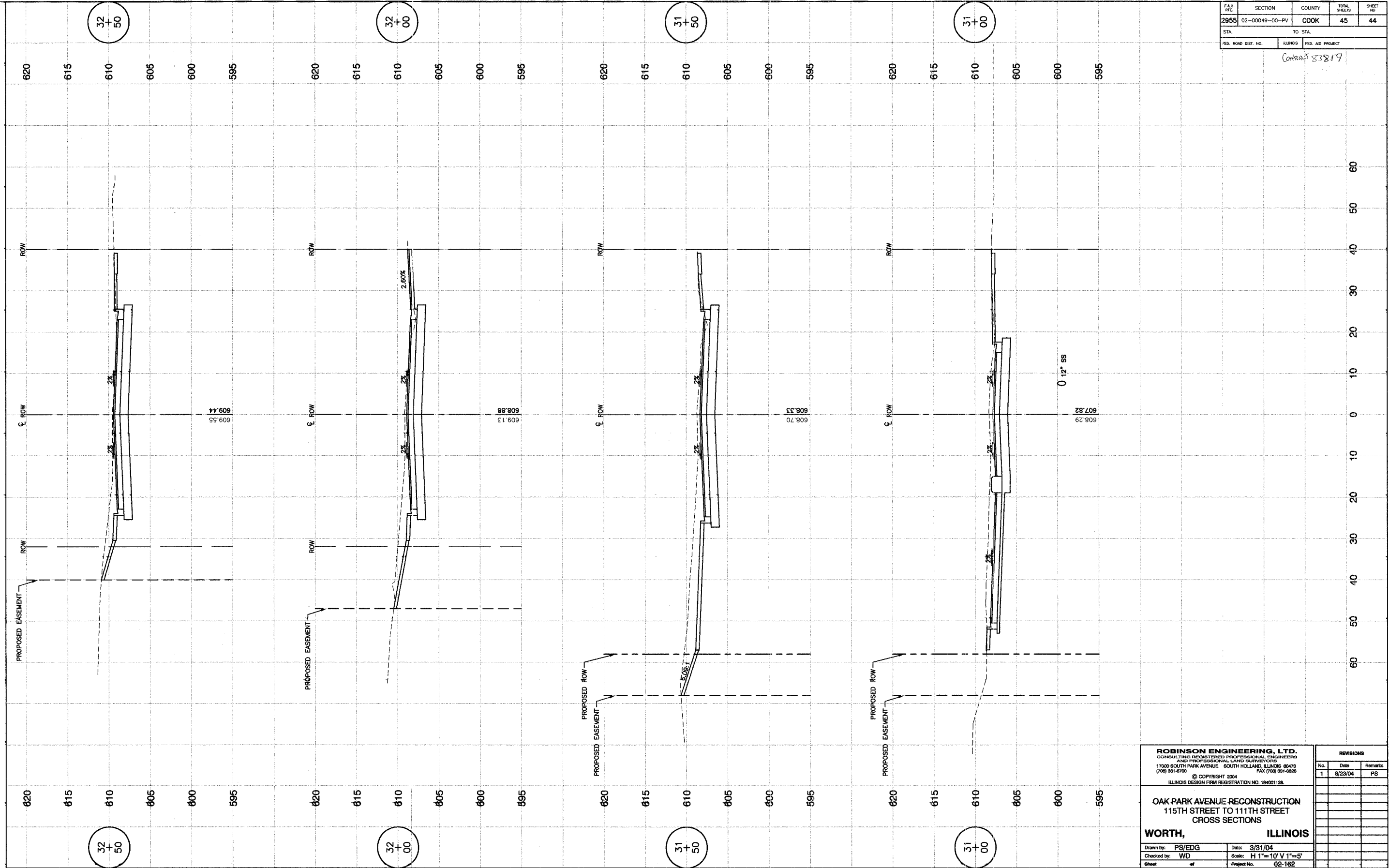
WORTH, ILLINOIS

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Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8/23/04	PS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-0049-00-PV	COOK	45	44
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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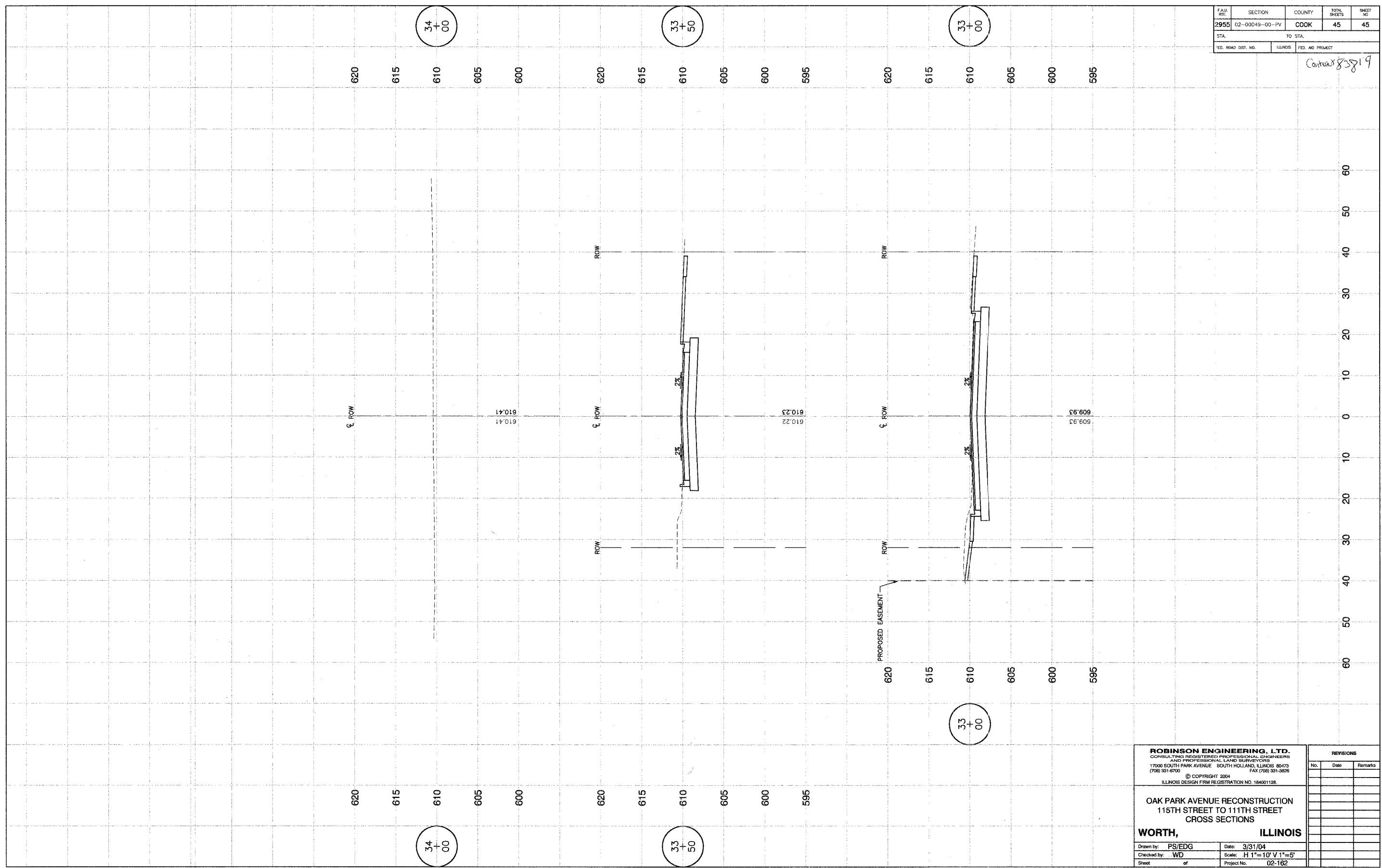
OAK PARK AVENUE RECONSTRUCTION
115TH STREET TO 111TH STREET
CROSS SECTIONS

Drawn by: PS/EDG Date: 3/31/04
Checked by: WD Scale: H 1"=10' V 1"=5'
Sheet of Project No. 02-162

REVISIONS		
No.	Date	Remarks
1	8/23/04	PS

FAU. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2955	02-00049-00-PV	COOK	45	45
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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CROSS SECTIONS**

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Checked by: WD	Scale: H 1"=10' V 1"=5'
Sheet of	Project No. 02-162

REVISIONS		
No.	Date	Remarks