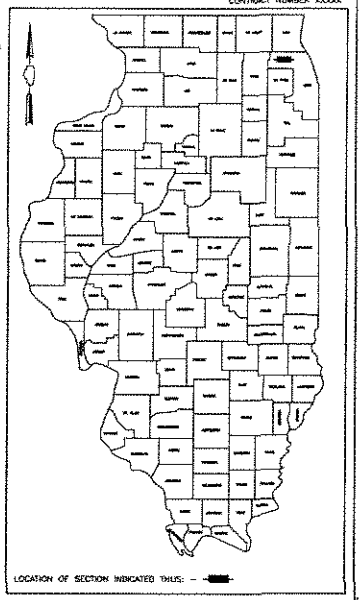
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	02-00177-00-WR	COOK	107	1
FED. ROAD DISTRICT	ILLINOIS	FED. AID PROJECT		
CONTRACT NUMBER XXXXX				

PLANS FOR PROPOSED FEDERAL AID PROJECT

U.S. ROUTE 14 (NORTHWEST HIGHWAY), DAVIS STREET AND ARTHUR AVENUE
RAILROAD GRADE CROSSING IMPROVEMENT AND TRAFFIC SIGNAL MODIFICATION
SECTION 02-00177-00-WR
PROJECT NO: M-8003(426)
JOB NO: C-91-252-04
VILLAGE OF ARLINGTON HEIGHTS
COOK COUNTY



INDEX OF SHEETS

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1	TITLE AND INDEX OF SHEETS
2	GENERAL NOTES
3–5	SUMMARY OF QUANTITIES
6–7	TYPICAL SECTIONS
8	ALIGNMENT, TIES AND BENCHMARKS
9–15	STAGES OF CONSTRUCTION
16	DETOUR PLAN
17–28	PLAN AND PROFILE
29–30	SOIL EROSION AND SEDIMENT CONTROL
31–42	DRAINAGE AND UTILITIES
43–44	INTERSECTION GRADING PLAN
45–46	PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN
47–55	TRAFFIC SIGNALS
56–76	LIGHTING RELOCATION
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L1–L6	PLANTINGS AND IRRIGATION SYSTEM PLAN

IDOT STANDARDS REFERENCED

NUMBER	DESCRIPTION
000001	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
280001	TEMPORARY EROSION CONTROL SYSTEMS
353001	PCC BASE COURSE WITH BITUMINOUS CONCRETE BINDER AND SURFACE COURSES
420001	PAVEMENT JOINTS
420111	PCC PAVEMENT ROUNDOUTS
420501	PCC PAVEMENT AND PCC BASE COURSE ADJACENT TO RAILROAD GRADE CROSSING
424001	CURB RAMPS FOR SIDEWALKS
442201	CLASS C AND D PATCHES
602001	CATCH BASIN, TYPE A
602011	CATCH BASIN, TYPE C
602401	MANHOLE TYPE A
602601	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701	CAST IRON STEPS
604001	FRAME AND LIDS, TYPE 1
604036	GRATE, TYPE 8
604066	FRAME AND GRATE, TYPE 23
606001	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301	PC CONCRETE ISLANDS AND MEDIANS
606306	CORRUGATED PC CONCRETE MEDIANS
701301	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701311	LANE CLOSURE, 2L 2W, MOVING OPERATIONS–DAY ONLY
701326	LANE CLOSURE, 2L 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701406	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701501	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
702001	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS
729001	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001	TYPICAL PAVEMENT MARKINGS
877001	STEEL MAST ARM ASSEMBLY AND POLE
886001	DETECTOR LOOP INSTALLATIONS

IDOT STANDARDS REFERENCED (CONTD)

NUMBER	DESCRIPTION
805001	ELECTRICAL SERVICE INSTALLATION DETAILS
814001	CONCRETE HANDHOLES
814006	DOUBLE HANDHOLES
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
877011	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
878001	CONCRETE FOUNDATION DETAILS
880001	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006	TRAFFIC SIGNAL MOUNTING DETAILS
BD–01	DRIVEWAY DETAILS: DISTANCE BETWEEN R.O.W. AND FACE OF CURB/EDGE OF SHOULDER ≥ (15')
BD–03	OUTLET FOR CONCRETE CURB AND GUTTER
BD–07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD–08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD 32	BUTT JOINT AND BITMUNIOUS TAPER DETAILS
TC–11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)
TC–13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC–16	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
TC–18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
TC–22	TEMPORARY INFORMATION SIGNING
TS–05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
–	MAST ARM MOUNTED STREET NAME SIGNS
–	VIDEO DETECTION DETAILS

MISCELLANEOUS STANDARDS (DETAILS)

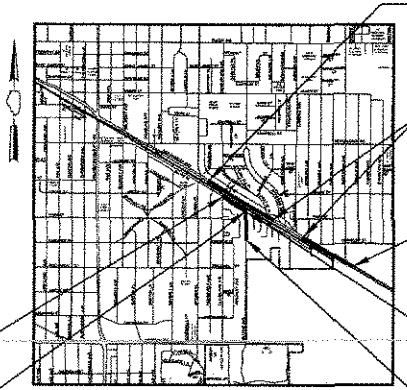
NUMBER	DESCRIPTION
–	TRIANGULAR SILT DIKE INSTALLATION FOR ROADWAY DITCH OR DRAINAGE DITCH
–	FIRE HYDRANT
–	TEMPORARY INFORMATION SIGNING FOR COMMERCIAL ENTRANCE
–	MODULAR BLOCK RETAINING WALL

0 10' 20' 30' 100' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 20'

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

THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2002 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, SHALL GOVERN THIS WORK.

CONTRACT NO. _____



LOCATION MAP (NOT TO SCALE)
SECTIONS 32 & 33, TOWNSHIP 42 NORTH, RANGE 11 EAST

U.S. ROUTE 14 (NORTHWEST HIGHWAY) PROJECT LENGTH = 3,459 FT. = 0.655 MI.
DAVIS STREET PROJECT LENGTH = 865 FT. = 0.164 MI.
ARTHUR AVENUE PROJECT LENGTH = 633.34 FT. = 0.120 MI.
GROSS PROJECT LENGTH = 4,957.34 FT. = 0.939 MI.

DESIGN DESIGNATION:

U.S. ROUTE 14 (NORTHWEST HIGHWAY) = 1810 (09)
• OTHER PRINCIPAL ARTERIAL TWS–4 • 4.27 (AC–20)
DAVIS STREET = 665 (09) • LOCAL COLLECTOR TWS–2 • 4.10 (AC–20)
ARTHUR AVENUE = 535 (09) • LOCAL COLLECTOR TWS–2 • 4.30 (AC–20)

ADT'S(2009):

U.S. ROUTE 14 (NORTHWEST HIGHWAY) = 20,400 VPD
DAVIS STREET = 6,300 VPD
ARTHUR AVENUE = 9,700 VPD

DESIGN SPEED – U.S. ROUTE 14 = 45 MPH (POSTED SPEED = 40 MPH)
– DAVIS STREET = 30 MPH (POSTED SPEED = 30 MPH)
– ARTHUR AVENUE = 35 MPH (POSTED SPEED = 30 MPH)

FOR UNDERGROUND UTILITY LOCATIONS
Call Before You Dig
JULIE
(800) 892–0123

P.E. SIGNATURE:
P.E. NAME: JOSEPH J. EMERY
DATE: 3/14/2007
IL LICENSE NO.: 062–057496
LICENSE EXPIRATION: 11/30/2007
SHEETS: 47–55 TRAFFIC SIGNALS

P.E. SIGNATURE:
P.E. NAME: DAVID E. MERTZ
DATE: 3/16/2007
IL LICENSE NO.:062–052068
LICENSE EXPIRATION: 11/30/2007
SHEETS: 56–76 LIGHTING RELOCATION

P.E. SIGNATURE:
P.E. NAME: REID T. MAGNER
DATE: 3/16/2007
IL LICENSE NO.: 062–056273
LICENSE EXPIRATION: 11/30/2007
SHEETS: 1–46 AND 77–107

CORPORATE SEAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED _____ 20__
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
_____ 20__
CHIEFTAIN OF DESIGN AND ENVIRONMENT
_____ 20__
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

APPROVED _____ 20__
MIKE PAGONES, P.E.
VILLAGE ENGINEER VILLAGE OF ARLINGTON HEIGHTS

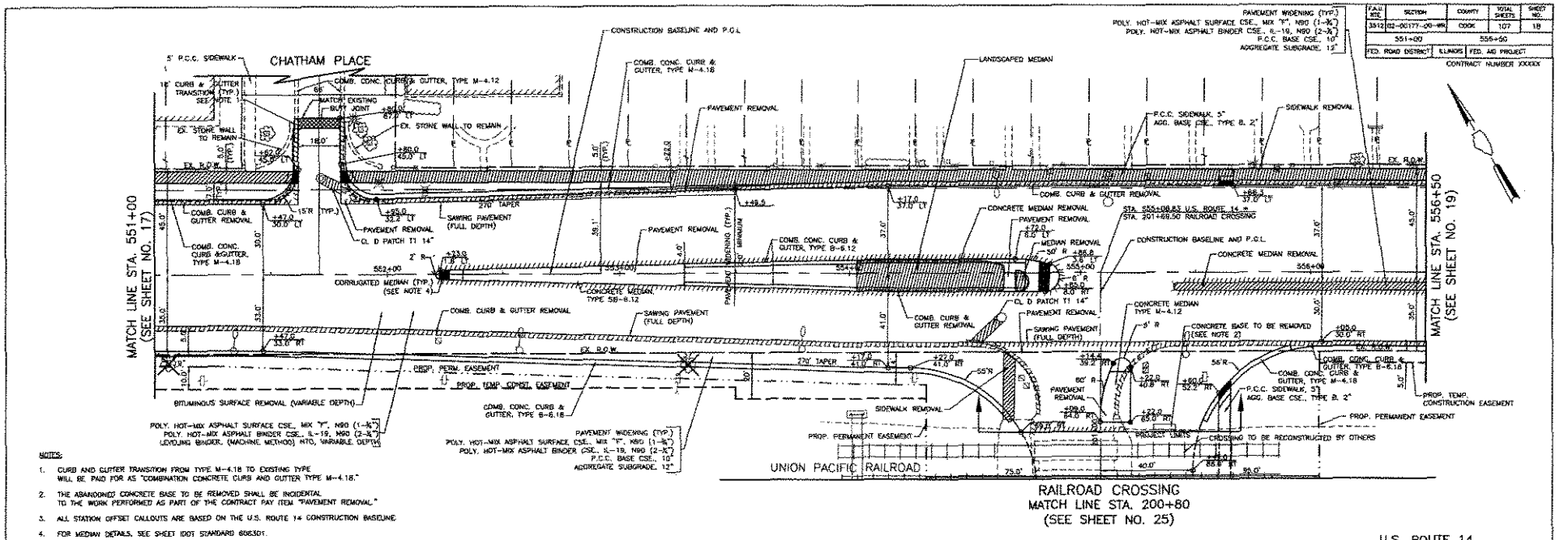
PLANS PREPARED BY:
CIVILTECH
450 E. Devon Ave, Suite 300 - Itasca, Illinois 60143
Tel: 630.773.3900 - Fax: 630.773.3975
www.civiltechinc.com
Barton & Associates

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

CONSULTANT ENGINEER: REID T. MAGNER, P.E. CIVILTECH ENGINEERING, INC
FEDERAL AID PROGRAM ENGINEER: JESSICA MILLER (847) 705–4487 SCHAUMBURG, IL

FINAL

ALL STATE LEGAL®
EXHIBIT
B



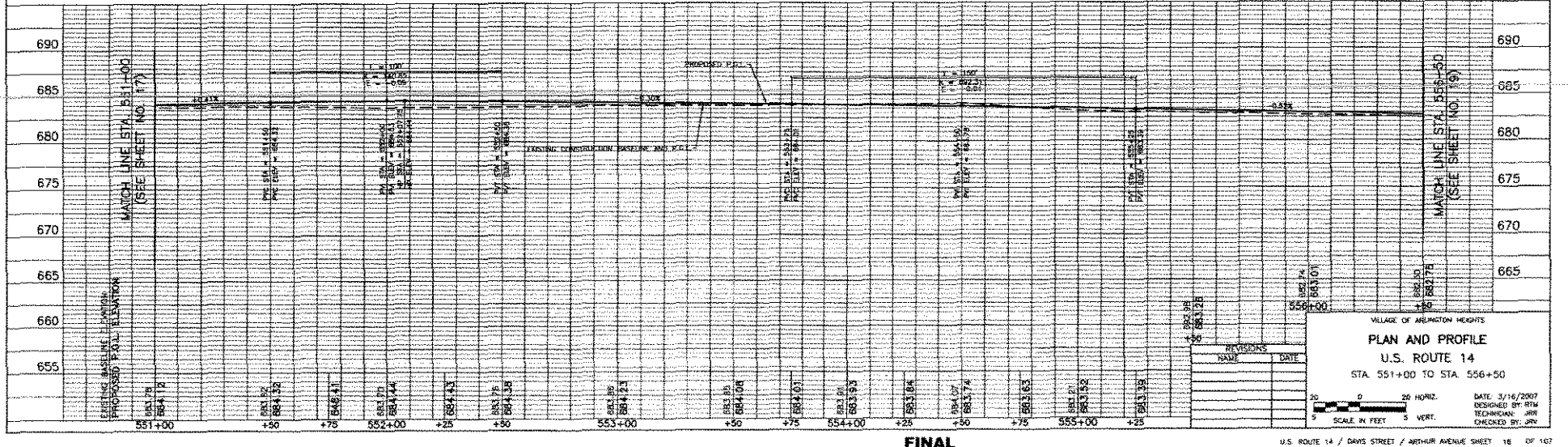
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	02-00177-00-WR	COOK	107	18
	551+00	556+50		
FED. ROAD DISTRICT	ILLINOIS	FED. AID PROJECT		

CONTRACT NUMBER XXXXX

NOTES:

1. CURB AND GUTTER TRANSITION FROM TYPE M-4.18 TO EXISTING TYPE WILL BE PAID FOR AS "COMBINATION CONCRETE CURB AND GUTTER TYPE M-4.18."
2. THE ABANDONED CONCRETE BASE TO BE REMOVED SHALL BE INCIDENTAL TO THE WORK PERFORMED AS PART OF THE CONTRACT PAY ITEM "PAVEMENT REMOVAL."
3. ALL STATION OFFSET CALLOUTS ARE BASED ON THE U.S. ROUTE 14 CONSTRUCTION BASELINE.
4. FOR MEDIAN DETAILS, SEE SHEET IDOT STANDARDS 606501.

U.S. ROUTE 14



REVISIONS

NAME	DATE

VILLAGE OF ARLINGTON HEIGHTS

PLAN AND PROFILE

U.S. ROUTE 14

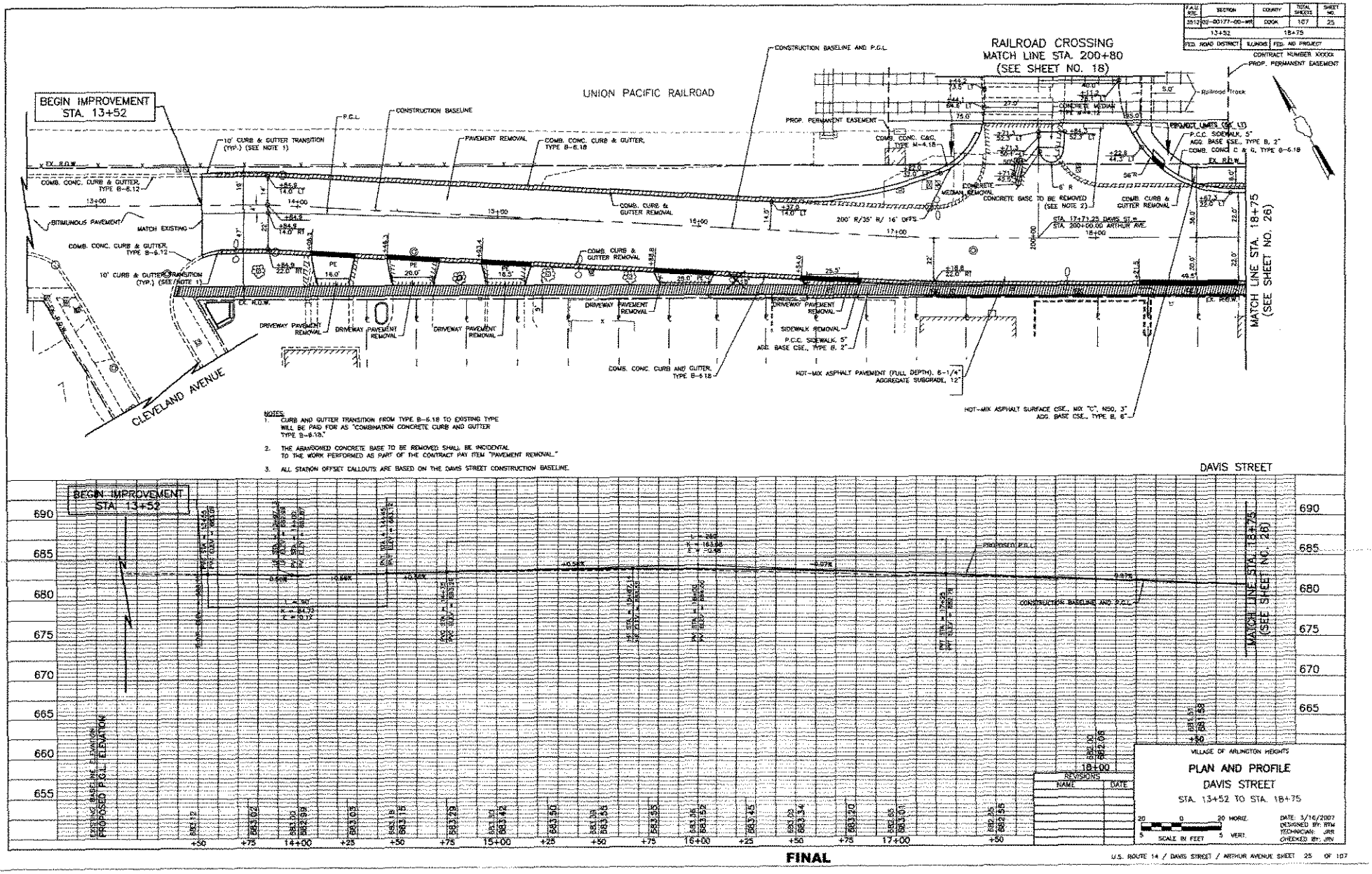
STA. 551+00 TO STA. 556+50

30 0 20 HORIZ.

5 SCALE IN FEET 5 VERT.

DATE: 3/16/2007
DESIGNED BY: RTM
TECHNICIAN: JRW
CHECKED BY: JRW

FINAL



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	02-00177-00-WR	COOK	107	25
	13+52	18+75		
FED. ROAD DISTRICT	ILLINOIS	FED. AID PROJECT		

CONTRACT NUMBER XXXXX

REVISIONS	
NAME	DATE

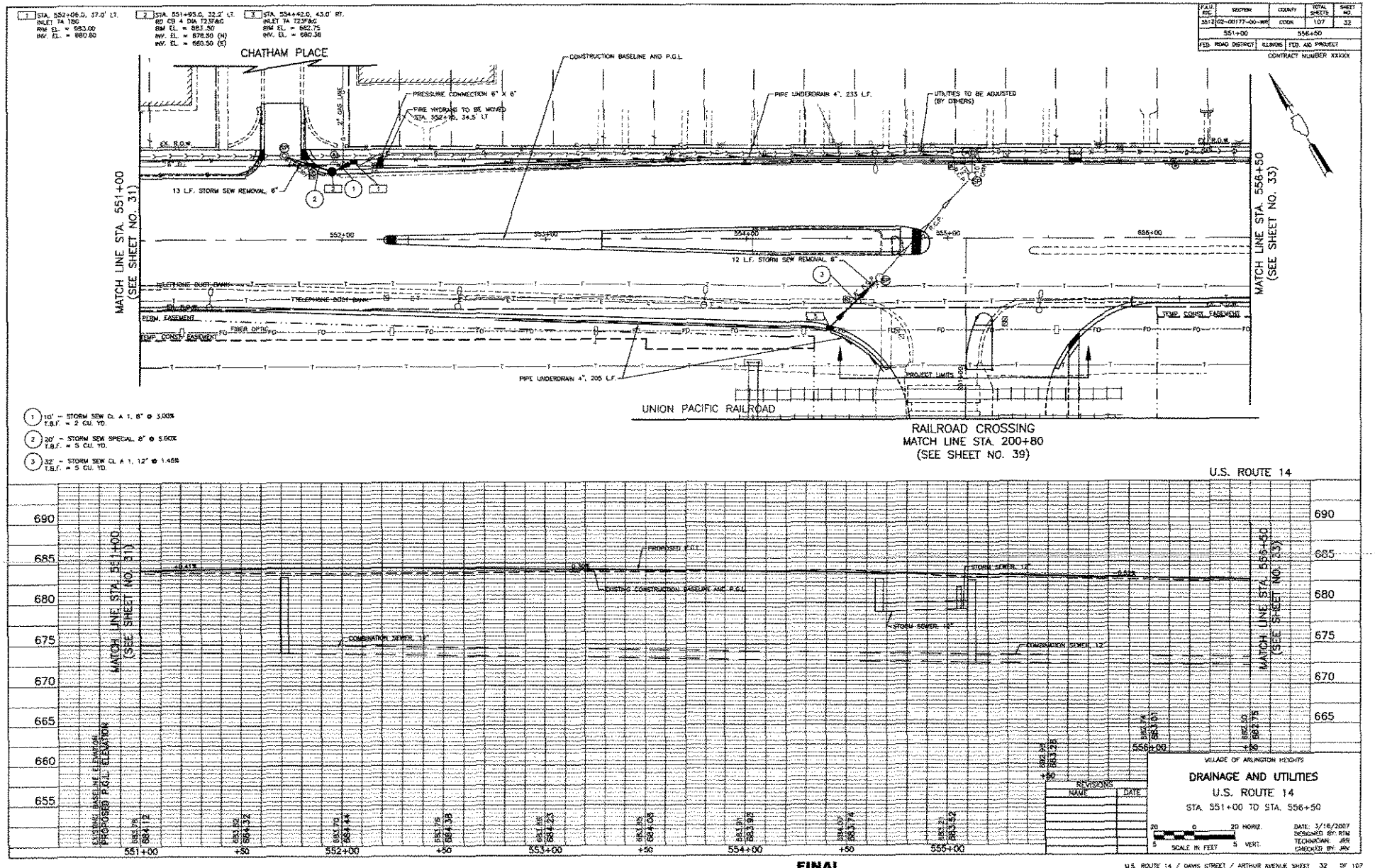
VILLAGE OF ARLINGTON HEIGHTS

PLAN AND PROFILE
DAVIS STREET
STA. 13+52 TO STA. 18+75

SCALE IN FEET: 20 0 20 HORIZ. / 5 0 5 VERT.

DATE: 3/16/2007
DESIGNED BY: RTM
TECHNICIAN: JRR
CHECKED BY: JRR

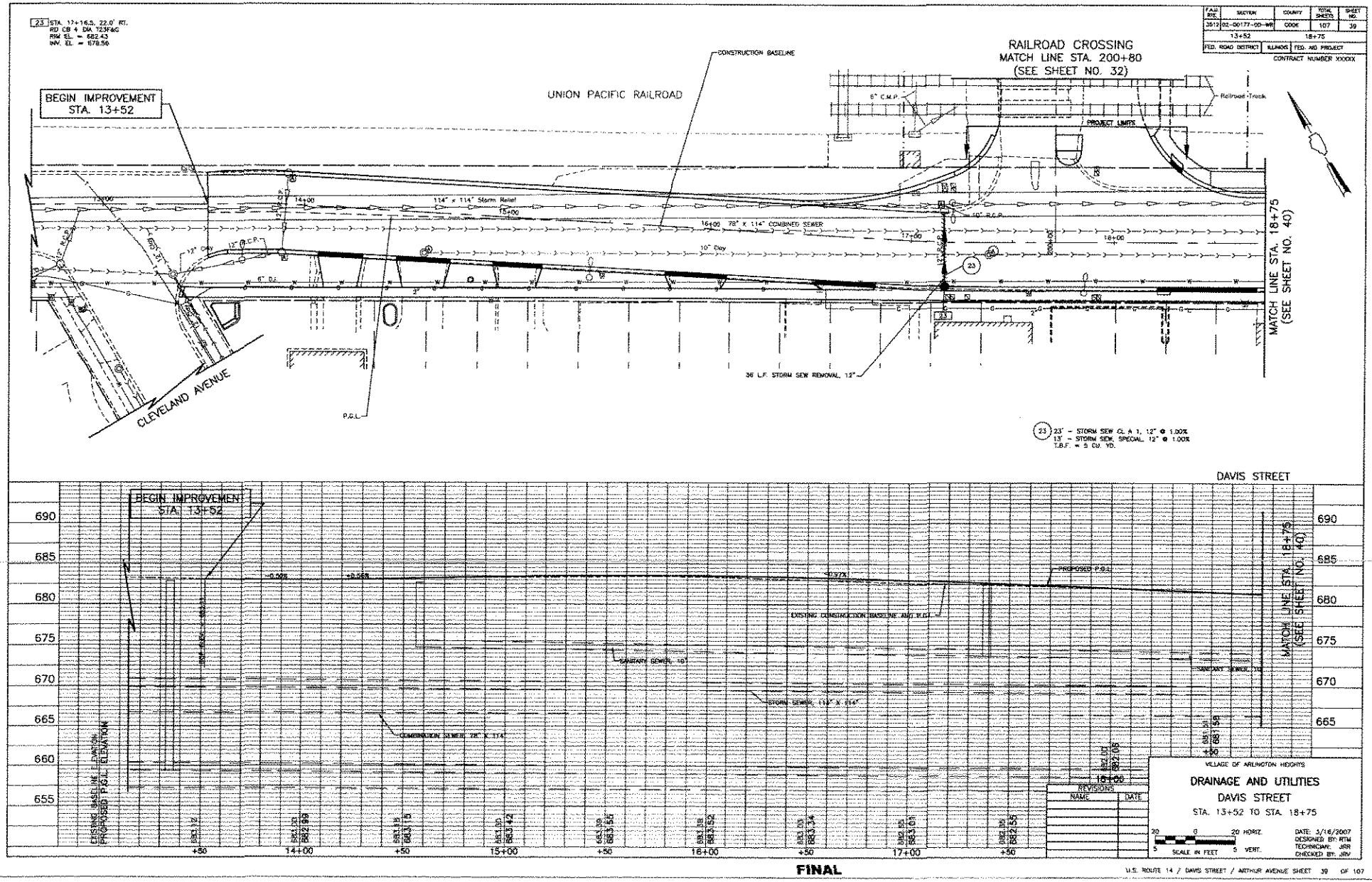
FINAL



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	02-00177-00-WR	COOK	107	32
	551+00	556+50		
FED. ROAD DISTRICT	ILLINOIS	FED. AID PROJECT		

CONTRACT NUMBER XXXXX

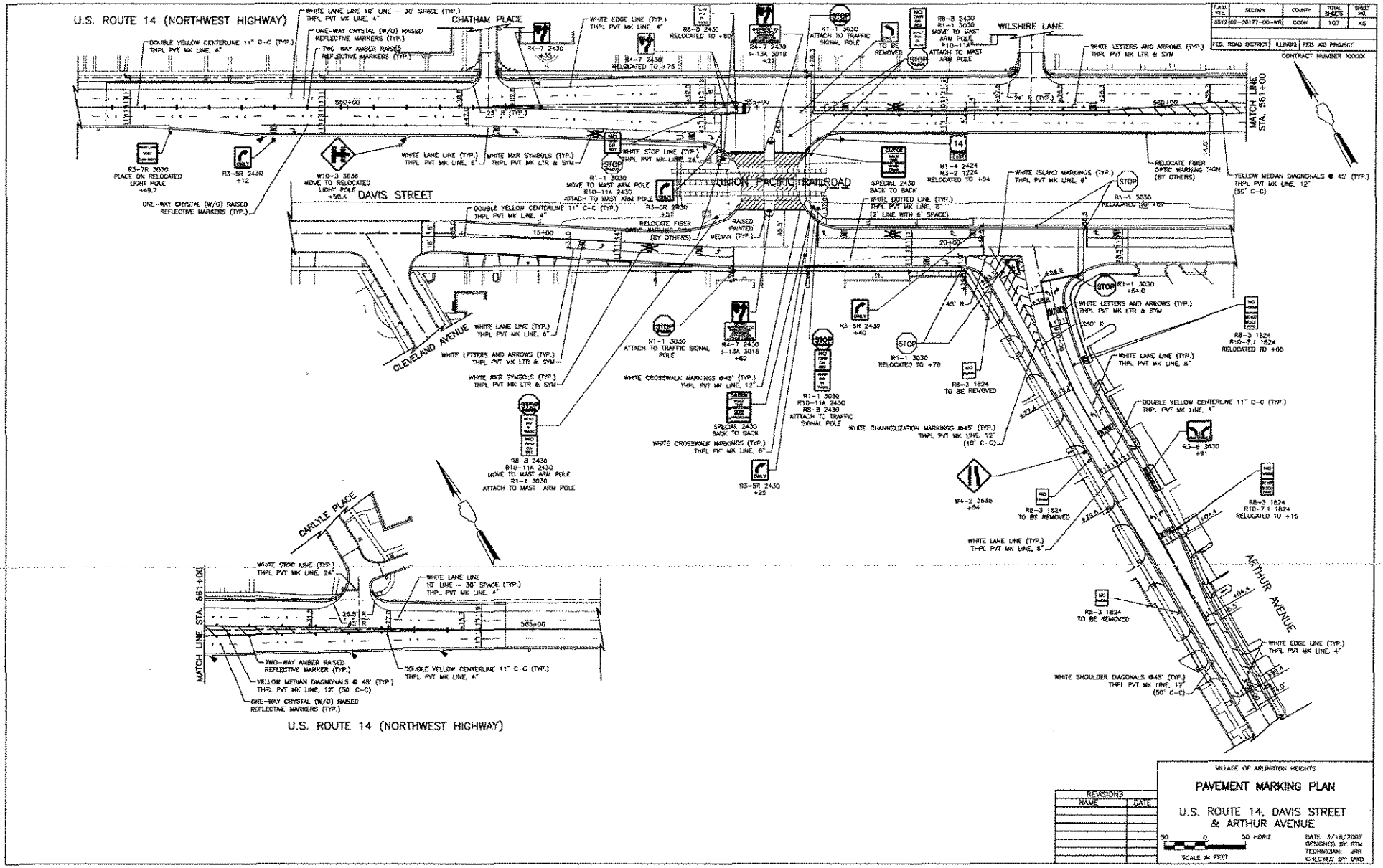
FINAL



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	02-00177-00-WR	COOK	107	39
13+52		18+75		
FED. ROAD DISTRICT	ILLINOIS	FED. AID PROJECT		

CONTRACT NUMBER XXXXX

FINAL

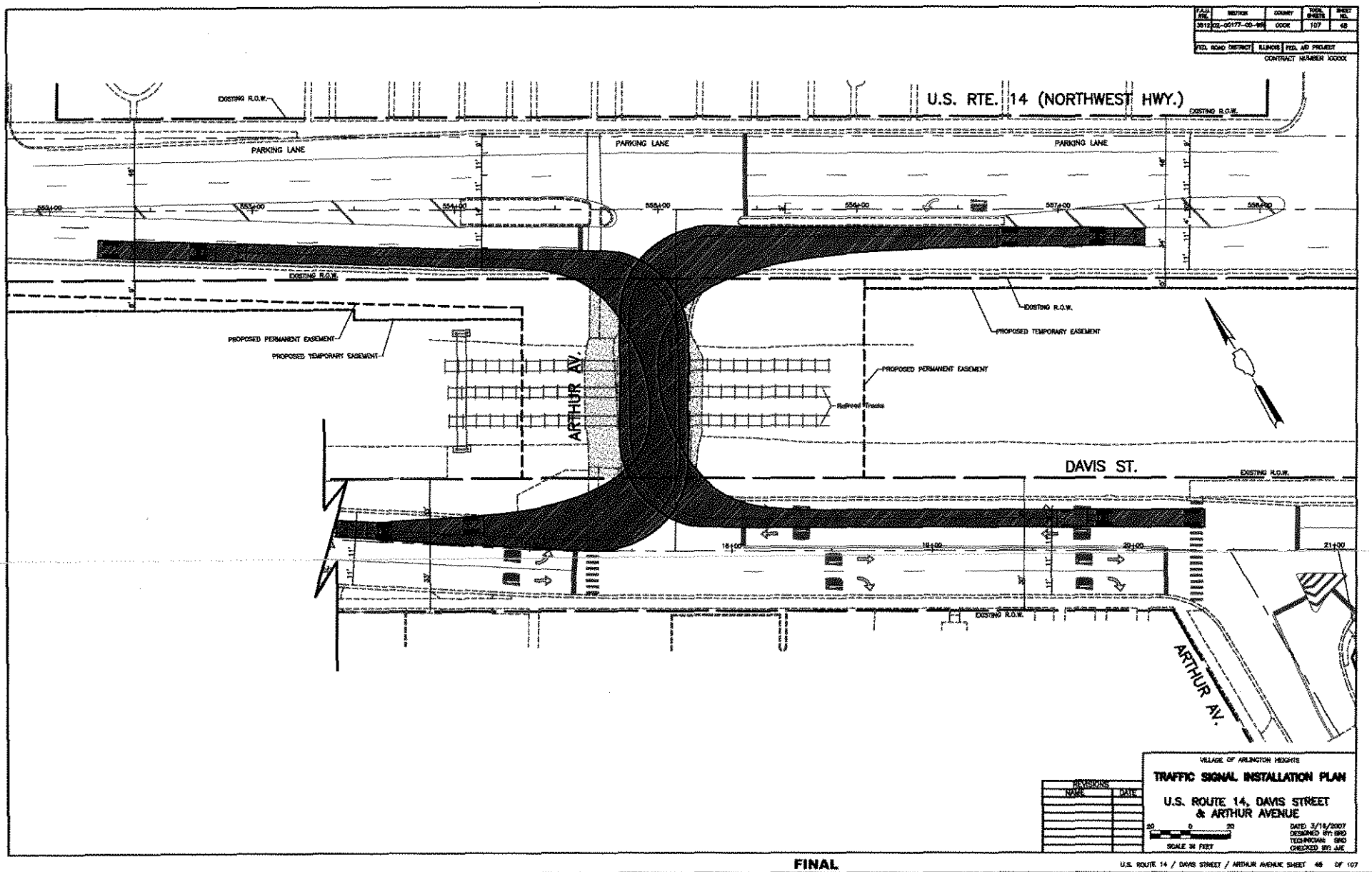

U.S. ROUTE 14 (NORTHWEST HIGHWAY)
CHATHAM PLACE
WILSHIRE LANE
DAVIS STREET
UNION PACIFIC RAILROAD
CLEVELAND AVENUE
ARTHUR AVENUE
CARLYLE PLACE
MATCH LINE STA. 561+00
U.S. ROUTE 14 (NORTHWEST HIGHWAY)
FAU RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO.
5512 | 00-00177-00-WR | COOK | 107 | 45
FED. ROAD DISTRICT | ILLINOIS | FED. AID PROJECT
CONTRACT NUMBER XXXXX
REVISIONS
NAME | DATE
VILLAGE OF ARLINGTON HEIGHTS
PAVEMENT MARKING PLAN
U.S. ROUTE 14, DAVIS STREET & ARTHUR AVENUE
50 0 50 HORIZ.
SCALE IN FEET
DATE: 3/16/2007
DESIGNED BY: RTM
TECHNICIAN: ARR
CHECKED BY: GWB

FINAL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	02-00177-00-WR	COOK	107	48

FED. ROAD DISTRICT | ILLINOIS | FED. AID PROJECT

CONTRACT NUMBER XXXXX



REVISIONS	
NAME	DATE

VILLAGE OF ARLINGTON HEIGHTS

TRAFFIC SIGNAL INSTALLATION PLAN

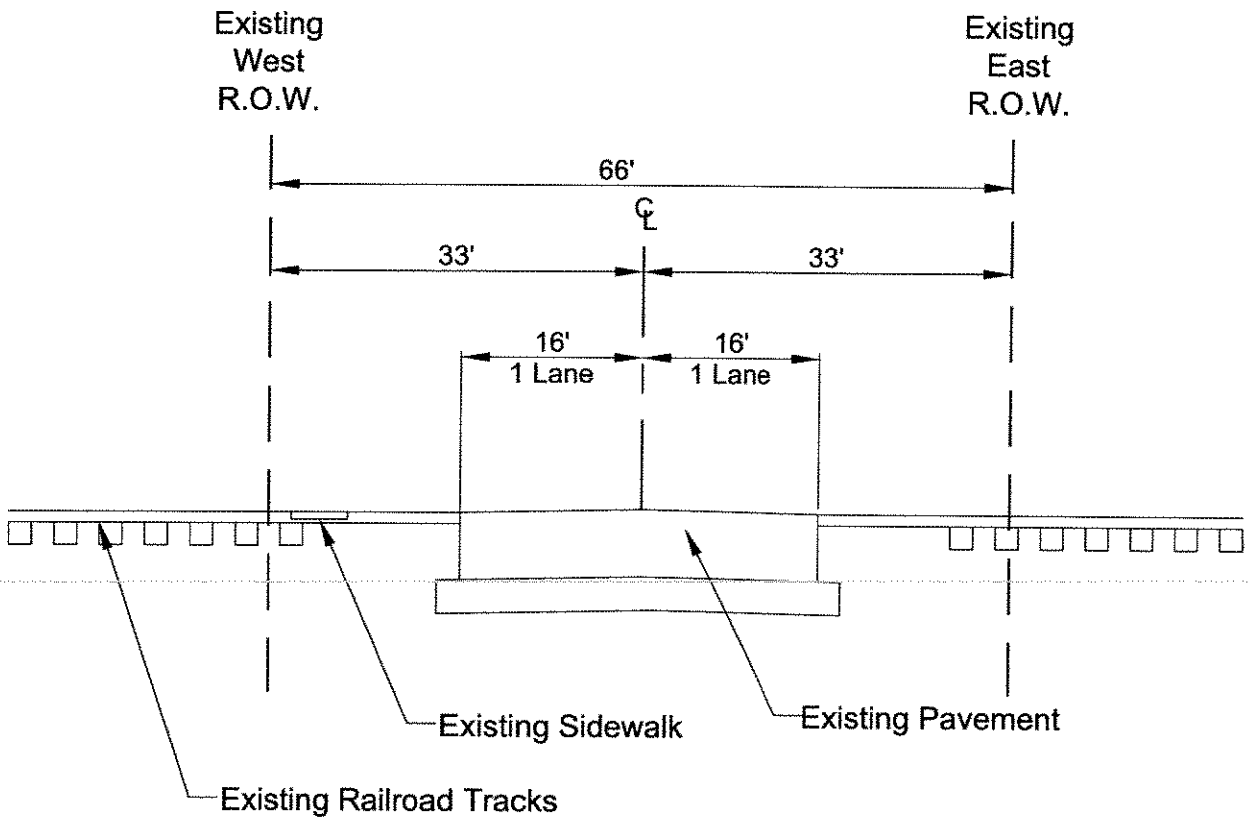
U.S. ROUTE 14, DAVIS STREET & ARTHUR AVENUE

20 0 20

SCALE IN FEET

DATE: 3/16/2007
DESIGNED BY: BRD
TECHNICIAN: BRD
CHECKED BY: JJE

FINAL



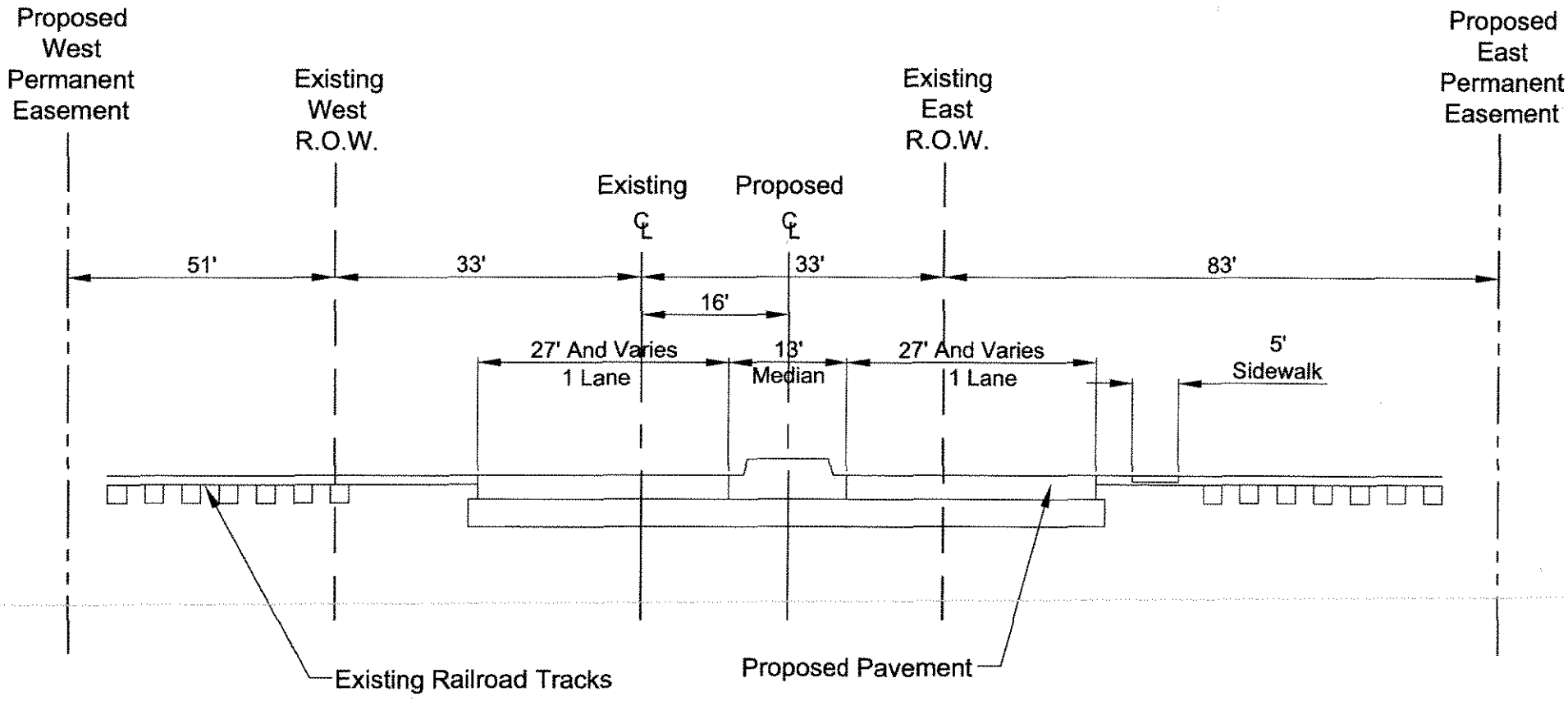
NOT TO SCALE

Village of Arlington Heights
Arthur Ave./Davis St./U.S. Route 14 Improvement

ARTHUR AVENUE RAILROAD CROSSING
EXISTING TYPICAL SECTION

CIVILTECH

EXHIBIT A-4



NOT TO SCALE

Village of Arlington Heights
Arthur Ave./Davis St./U.S. Route 14 Improvement

ARTHUR AVENUE RAILROAD CROSSING PROPOSED TYPICAL SECTION

CIVILTECH

EXHIBIT A-12