

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8980	02-00043-00-RS	MADISON	18	1
MADISON COUNTY ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 97247				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
F.A.U. ROUTE 8980 (EDWARDSVILLE ROAD)
WOOD RIVER SECTION 02-00043-00-RS
MADISON COUNTY
PROJECT NO. M-5011 (180)
JOB NO. C-98-347-04**

THIS PROJECT IS LOCATED IN SECTION 21 AND 22,
TOWNSHIP 5 NORTH, RANGE 9 WEST OF THE
3RD PRINCIPAL MERIDIAN, MADISON COUNTY, ILLINOIS

UTILITY LOCATION CAN BE OBTAINED BY CALLING J.U.L.I.E.
(1-800-892-0123)

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN
THE LIMITS OF THIS PROJECT WHICH MAY OR MAY NOT
REQUIRE ADJUSTMENT OR RELOCATION:

TELEPHONE:
SBC
203 GOETHE
COLLINSVILLE, ILLINOIS 62234
(618) 346-6400

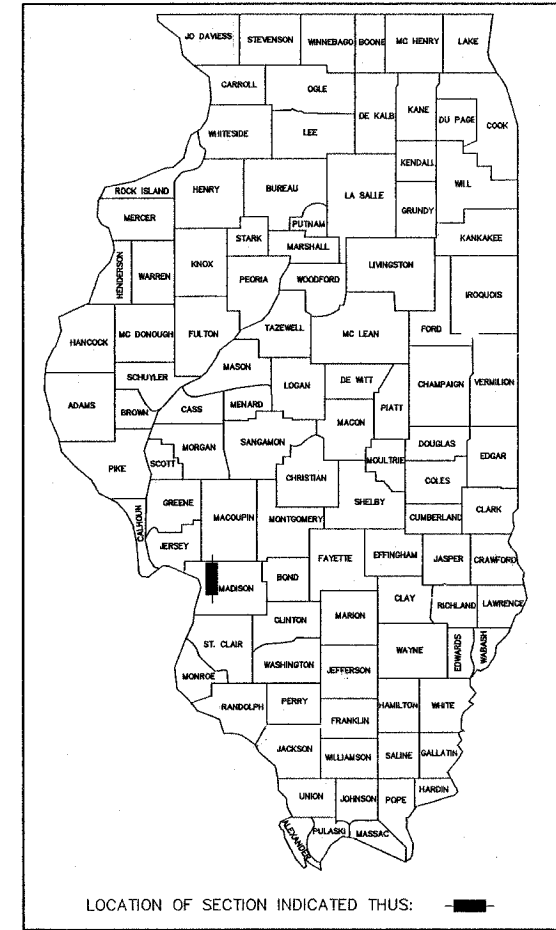
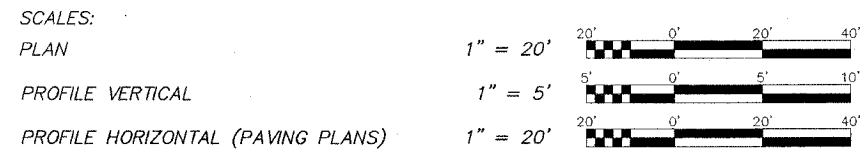
WATER:
WOODRIVER PUBLIC WORKS DEPT.
501 W. FERGUSON AVE.
WOOD RIVER, ILLINOIS 62095
(618) 251-3122

GAS & ELECTRIC:
ILLINOIS POWER COMPANY
2600 N. CENTER STREET
MARYVILLE, ILLINOIS 62062
(618) 346-1273

STORM SEWERS:
WOODRIVER PUBLIC WORKS DEPT.
501 W. FERGUSON AVE.
WOOD RIVER, ILLINOIS 62095
(618) 251-3122

CABLE TELEVISION:
CHARTER COMMUNICATIONS
508 NIAGARA AVENUE
EAST ALTON, ILLINOIS 62024
(618) 251-2660

SANITARY SEWERS:
WOODRIVER PUBLIC WORKS DEPT.
501 W. FERGUSON AVE.
WOOD RIVER, ILLINOIS 62095
(618) 251-3122

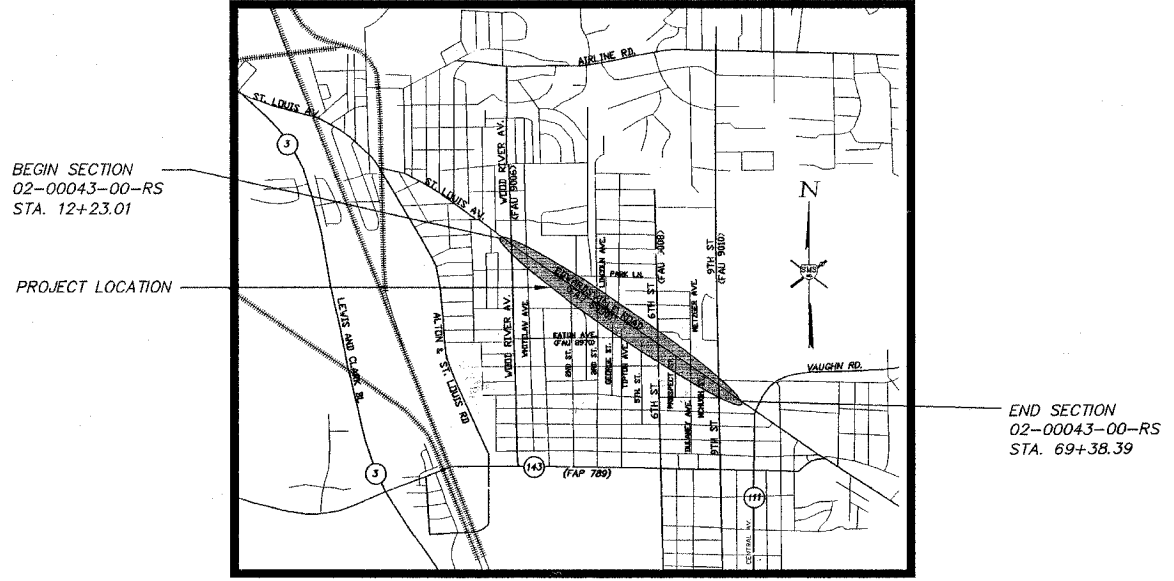


INDEX TO SHEETS

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16. PLAN AND PROFILE (PAVING AND TRAFFIC SIGNAL IMPROVEMENTS AT NINTH STREET)
17. TRAFFIC SIGNAL PLAN
18. CABLE DIAGRAM

HIGHWAY STANDARDS

- 420701-01
- 442101-05
- 442201-01
- 701201-02
- 701306-01
- 701501-03
- 701701-04
- 702001-05
- 720001
- 780001-01
- 781001-02
- 805001
- 814001
- 814006
- 878001-03
- 880006
- 886001
- 886006



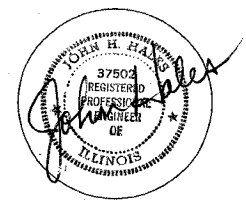
LOCATION MAP

SCALE: 1" = 1000'
TOTAL LENGTH OF PROJECT = 5,715.38 FT. = 1.082 MILES

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS & LAND SURVEYORS

215 Market Street
Alton, Illinois 62002
618/462-9755

10 Central Industrial Dr
Northgate Center
Granite City, IL 62040
618/677-8700



DATED: FEBRUARY, 2005
EXPIRES: NOVEMBER 30, 2005

APPROVED FEBRUARY 9, 2005
David L. Ayres
MAYOR, WOOD RIVER

PASSED 2-28-05 2005
Jennifer Oberst
LOCAL ROADS AND STREETS ENGINEER

APPROVED 2-28-2005
Mary C. Lamie
MARY C. LAMIE, P.E.
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY CLASSIFICATION=TS-3 (MINOR ARTERIAL)
DESIGN SPEED=30 MPH
CURRENT ADT = 14,100
% MU=1.0% %SU=1.3%

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	QUANTITY
20200100	Earth Excavation	Cu. Yd.	2
21400100	Grading and Shaping Ditches	Foot	1,020
40200800	Aggregate Surface Course, Type B	Ton	19
40600100	Bituminous Materials (Prime Coat)	Gallon	2,575
40600300	Aggregate (Prime Coat)	Ton	52
42001200	Pavement Fabric	Sq. Yd.	397
44000006	Bituminous Surface Removal, 1 1/2"	Sq. Yd.	25,745
44000400	Gutter Removal	Foot	12
44201076	Class B Patches, Type II	Sq. Yd.	470
44201078	Class B Patches, Type III	Sq. Yd.	108
44201080	Class B Patches, Type IV	Sq. Yd.	289
44201974	Class D Patches, Type I	Sq. Yd.	3
44201978	Class D Patches, Type III	Sq. Yd.	25
44213200	Saw Cuts	Foot	2,702
44300200	Strip Reflective Crack Control Treatment	Foot	15,001
48202000	Bituminous Shoulders Superpave	Ton	422
55039700	Storm Sewers To Be Cleaned	Foot	204
60260100	Inlets To Be Adjusted	Each	1
60602200	Concrete Gutter	Foot	12
60605000	Combination Concrete Curb and Gutter Type B-6,24	Foot	18
70101700	Traffic Control and Protection	L. Sum	1
70300100	Short Term Pavement Marking	Foot	1,050
70301000	Work Zone Pavement Marking Removal	Sq. Ft.	347
72000100	Sign Panel-Type I	Sq. Ft.	16.5
72400900	Remove Sign Panel	Each	2
78000100	Thermoplastic Pavement Marking-Letters and Symbols	Sq. Ft.	149
78000200	Thermoplastic Pavement Marking-Line 4"	Foot	12,971
78000500	Thermoplastic Pavement Marking-Line 8"	Foot	133
78000600	Thermoplastic Pavement Marking-Line 12"	Foot	774
78000650	Thermoplastic Pavement Marking-Line 24"	Foot	476
78100100	Raised Reflective Pavement Markers	Each	52
78300200	Raised Reflective Pavement Marker Removal	Each	18
78300405	Thermoplastic Pavement Marking Removal	Foot	167
80300100	Locating Underground Cable	Foot	50
80500100	Service Installation Type A	Each	1
81012300	Conduit in Trench 1" Diameter, PVC	Foot	15
81012500	Conduit in Trench 1 1/2" Diameter, PVC	Foot	283
81013100	Conduit in Trench 5" Diameter, PVC	Foot	20
81018400	Conduit Pushed, 1 1/2" Diameter, Galvanized Steel	Foot	80
81018600	Conduit Pushed, 2 1/2" Diameter, Galvanized Steel	Foot	67
81400400	Concrete Handhole	Each	3
81400600	Concrete Double Handhole	Each	1
81500200	Trench and Backfill for Electrical Work	Foot	318
85700200	Full-Actuated Controller and Type IV Cabinet	Each	1
87301215	Electric Cable in Conduit, Signal No. 14 2C	Foot	190
87301225	Electric Cable in Conduit, Signal No. 14 3C	Foot	204
87301245	Electric Cable in Conduit, Signal No. 14 5C	Foot	328
87301255	Electric Cable in Conduit, Signal No. 14 7C	Foot	972
87301805	Electric Cable in Conduit, Service No. 6 2C	Foot	21
87800200	Concrete Foundation, Type D	Foot	3
88500100	Inductive Loop Detector	Foot	10
88600100	Detector Loop, Type I	Foot	2,570
89500400	Relocate Existing Pedestrian Push-Button	Each	1
89502380	Remove Existing Handhole	Each	1
89502385	Remove Existing Concrete Foundation	Each	1
Y 004033	Clean Existing Culverts	Each	7
XJ323336	LED Signal Face Retrofit, Red Ball	Each	21
XJ323337	LED Signal Face Retrofit, Green Ball	Each	21
XJ323418	LED Signal Face Retrofit, Yellow Ball	Each	21
XJ323419	LED Signal Face Retrofit, Yellow Arrow	Each	9
XJ323420	LED Signal Face Retrofit, Green Arrow	Each	13
XJ323421	LED Signal Face Retrofit, Walk Signal	Each	8
XJ323422	LED Signal Face Retrofit, Don't Walk Signal	Each	8
X4066428	Bituminous Concrete Surface Course, Superpave, Mix "D", N90	Ton	2,006
X8801300	Signal Head, Polycarbonate, LED, 1-Face, 3-Section Bracket Mounted	Each	6
X8801345	Signal Head, Polycarbonate, LED, 1-Face, 4-Section Bracket Mounted	Each	4
X8801395	Signal Head, Polycarbonate, LED, 1-Face, 5-Section Bracket Mounted	Each	4
X8810495	Pedestrian Signal Head, Polycarbonate, LED, 2-Face, Bracket Mounted	Each	2
X8950105	Remove Existing Traffic Controller and Cabinet	Each	1
X8950305	Remove Existing Signal Head	Each	14
X8950400	Remove Existing Service Installation, Type A	Each	1
Z0010615	Cleaning Existing Inlets	Each	3
Z0017100	Dowel Bars	Each	1,374
XJ006163	Remove Electric Cable from Conduit (Special)	L. Sum	1

PAVEMENT PATCHING SCHEDULE

Begin Sta. Lt./Rt.	Patch		Length (Ft.)	Width (Ft.)	Total (Sq. Yd.)	Saw Cuts (Ft.)	Dowel Bars (Ea.)	Pav't Fabric (Sq. Yd.)
	Class	Type						
16+32 Lt.	B	II	6	11.5	7.7	35	18	0
16+32 Rt.	B	II	6	11.5	7.7	29	18	0
16+80 Lt.	B	II	6	11.5	7.7	35	18	0
16+80 Rt.	B	II	6	11.5	7.7	29	18	0
17+30 Lt.	B	II	6	11.5	7.7	35	18	0
17+30 Rt.	B	II	6	11.5	7.7	29	18	0
18+30 Lt.	B	II	6	11.5	7.7	35	18	0
18+30 Rt.	B	II	6	11.5	7.7	29	18	0
22+89 Lt.	B	II	6	11.5	7.7	35	18	0
22+89 Rt.	B	II	6	11.5	7.7	29	18	0
23+74 Rt.	D	I	6	4	2.7	14	0	0
24+45 Lt.	B	IV	22	11.5	28.1	67	18	28.1
24+45 Rt.	B	IV	22	11.5	28.1	45	18	28.1
26+86 Lt.	B	II	6	11.5	7.7	35	18	0
26+86 Rt.	B	II	6	11.5	7.7	29	18	0
28+22 Lt.	B	II	11	11.5	14.1	45	18	0
28+22 Rt.	B	II	11	11.5	14.1	40	18	0
29+88 Lt.	B	II	8	11.5	10.2	39	18	0
29+88 Rt.	B	II	8	11.5	10.2	31	18	0
30+19 Lt.	B	II	6	11.5	7.7	35	18	0
30+19 Rt.	B	II	6	11.5	7.7	29	18	0
30+71 Lt.	B	II	6	11.5	7.7	35	18	0
30+71 Rt.	B	II	6	11.5	7.7	29	18	0
31+71 Lt.	B	II	6	11.5	7.7	35	18	0
31+71 Rt.	B	II	6	11.5	7.7	29	18	0
33+06 Lt.	B	II	6	11.5	7.7	35	18	0
33+06 Rt.	B	II	6	11.5	7.7	29	18	0
34+63 Lt.	B	II	6	11.5	7.7	35	18	0
34+63 Rt.	B	II	6	11.5	7.7	29	18	0
36+20 Lt.	B	III	14	11.5	17.9	51	18	17.9
36+20 Rt.	B	III	14	11.5	17.9	37	18	17.9
40+92 Lt.	B	II	6	11.5	7.7	35	18	0
40+92 Rt.	B	II	6	11.5	7.7	29	18	0
41+54 Lt.	B	IV	25	11.5	31.9	73	18	31.9
41+54 Rt.	B	IV	25	11.5	31.9	48	18	31.9
48+32 Lt.	B	IV	26	11.5	33.2	75	18	33.2
48+32 Rt.	B	IV	26	11.5	33.2	69	18	33.2
48+97 Lt.	B	IV	20	11.5	25.6	63	18	25.6
48+97 Rt.	B	IV	20	11.5	25.6	43	18	25.6
49+58 Rt.	B	II	12	8	10.7	40	18	0
49+76 Lt.	B	II	6	15	10.0	42	28	0
49+76 Rt.	B	II	6	10	6.7	26	16	0
49+92 Lt.	B	II	6	15	10.0	42	28	0
49+92 Rt.	B	II	6	21	14.0	42	38	0
50+59 Lt.	B	II	6	16	10.7	44	30	0
50+59 Rt.	B	II	6	21	14.0	48	38	0
52+17 Lt.	B	II	8	8	7.1	32	12	0
52+52 Lt.	B	III	8	18	16.0	52	36	16.0
52+52 Rt.	B	III	8	20	17.8	48	36	17.8
54+17 Lt.	B	II	6	19	12.7	50	34	0
54+17 Rt.	B	II	6	19	12.7	44	34	0
54+62 Lt.	B	II	6	19	12.7	50	34	0
54+62 Rt.	B	II	6	19	12.0	42	32	0
54+94 Lt.	B	II	6	16	10.7	44	28	0
55+59 Rt.	D	III	73	3	24.3	79	0	0
59+22 Lt.	B	II	6	11.5	7.7	35	18	0
59+22 Rt.	B	II	6	11.5	7.7	23	18	0
60+10 Lt.	B	II	6	11.5	7.7	35	18	0
60+10 Rt.	B	II	6	11.5	7.7	29	18	0
60+60 Lt.	B	III	15	11.5	19.2	53	18	19.2
60+60 Rt.	B	III	15	11.5	19.2	38	18	19.2
61+59 Lt.	B	II	6	11.5	7.7	35	18	0
61+59 Rt.	B	II	6	11.5	7.7	29	18	0
63+23 Lt.	B	II	6	11.5	7.7	35	18	0
63+23 Rt.	B	II	6	11.5	7.7	29	18	0
63+87 Lt.	B	II	6	11.5	7.7	35	18	0
63+87 Rt.	B	II	6	11.5	7.7	29	18	0
64+55 Lt.	B	II	6	11.5	7.7	35	18	0
64+55 Rt.	B	II	6	11.5	7.7	29	18	0

TOTALS	CLASS B PATCHES	866.5 SQ. YD.			
	CLASS D PATCHES	27.0 SQ. YD.	2,702 FOOT	1,374 EACH	396.7 SQ. YD.

BITUMINOUS MIX REQUIREMENTS - SUPERPAVE

ROUTE	FAU 8980
SECTION	02-00043-00-RS
COUNTY	MADISON
CONTRACT	97247

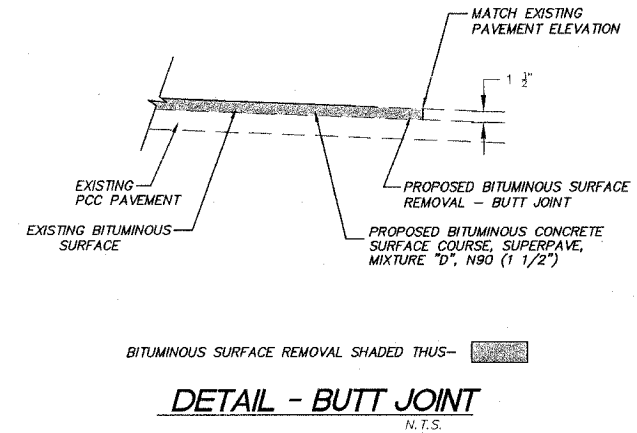
DESCRIPTION: EDWARDSVILLE ROAD STA. 12+23.01 TO STA. 69+38.39

ADT (CONSTRUCTION YEAR)	14,100
MU %	1.0
SU %	1.3
20 YR. ESALS	6.04

MIXTURE USE	SURFACE COURSE	SHOULDERS
AC/PC	PG 64-22	PG 64-22
RAP % MAX	10%	10%
DESIGN AIR VOIDS	4% @ Ndes = 90	4% @ Ndes = 90
MIX COMPOSITION (GRADATION MIXTURE)		
FRICITION AGG	MIXTURE D	MIXTURE D

PAVEMENT MARKING SCHEDULE

ITEM	QUANTITY	UNIT
THERMOPLASTIC PAVEMENT MARKING-LINE 4" (YELLOW)	4,266	FOOT
THERMOPLASTIC PAVEMENT MARKING-LINE 4" (WHITE)	8,705	FOOT
TOTAL THERMOPLASTIC 4"	12,971	FOOT
THERMOPLASTIC PAVEMENT MARKING-LINE 8" (WHITE)	133	FOOT
THERMOPLASTIC PAVEMENT MARKING-LINE 12" (YELLOW)	200	FOOT
THERMOPLASTIC PAVEMENT MARKING-LINE 12" (WHITE)	574	EACH
TOTAL THERMOPLASTIC 12"	774	FOOT
THERMOPLASTIC PAVEMENT MARKING-LINE 24" (WHITE)	476	FOOT
THERMOPLASTIC PAVEMENT MARKING-LETTERS AND SYMBOLS	149	SQ. FT.
THERMOPLASTIC PAVEMENT MARKING REMOVAL	167	FOOT
RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	18	EACH
RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL)	16	EACH
RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY AMBER)	20	EACH
RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER)	16	EACH
TOTAL RAISED REFLECTIVE PAVEMENT MARKERS	52	EACH



LEGEND

- EXISTING POWER POLE - ○
- EXISTING LIGHT POLE - ◇
- PROPOSED SIGNAL LIGHT - ◀
- EXISTING FIRE HYDRANT - ⚡
- EXISTING WATER VALVE - ⚙
- EXISTING WATER METER - Ⓜ
- EXISTING CHAIN LINK FENCE - x-x-x-x
- EXISTING WOOD FENCE - o-o-o-o
- EXISTING RETAINING WALL - ▬
- EXISTING BRICK WALL - ▬
- EXISTING SANITARY MANHOLE - Ⓢ
- EXISTING CULVERT - ▬
- EXISTING STORM INLET - Ⓜ
- IRON PIPE FOUND - Ⓜ
- EXISTING SIGN - ○
- EXISTING ROCK WALL - ○-○-○-○
- EXISTING MONUMENT - □
- EXISTING TREE - 🌳
- PROPOSED AGGREGATE SURFACE COURSE, TYPE B
- PROPOSED LIMITS TO BE ROTO-MILLED AND RESURFACED
- PROPOSED PAVEMENT TO BE REMOVED AND REPLACED

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CUBIC YARDS)	EARTH EXCAVATION ADJUSTED 25% SHRINKAGE (CUBIC YARDS)	EMBANKMENT (CUBIC YARDS)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CUBIC YARDS)
STA. 57+78 RT. TO STA. 57+89 RT.	2	1.5	0	1.5

GENERAL NOTES

- THIS IMPROVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE I.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2002 AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
- INFORMATION ON THE PLANS REGARDING UTILITIES IS TAKEN FROM THE BEST AVAILABLE RECORDS, BUT IS NOT REPRESENTED AS BEING CORRECT OR COMPLETE. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. IN ADVANCE OF CROSSING OVER OR UNDER UTILITIES.
- THE CONTRACTOR SHALL USE ALL DUE PRECAUTION NOT TO DAMAGE OR DISTURB UTILITIES. THE ENTIRE COST OF MAKING REPAIRS TO, OR REPLACEMENT OF, ANY DAMAGED LINE WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR, AT HIS EXPENSE, SHALL DISPOSE OF ALL EXCESS MATERIALS FROM EXCAVATION AND REMOVAL ITEMS IN ACCORDANCE WITH SECTION 202.03 OF THE STANDARD SPECIFICATIONS.
- BITUMINOUS SURFACE AND BITUMINOUS SHOULDER QUANTITIES HAVE BEEN CALCULATED USING A RATE OF 125 LB/SY-IN.

REVISIONS

SMS Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 • 618/462-9755 • Email: mail@smsengr.com
10 Central Industrial Drive, Granite City, IL 62040 • 618/877-8700 • E-mail: mail@smsengr.com

WOOD RIVER, ILLINOIS
RESURFACING PROJECT
EDWARDSVILLE ROAD (FAU 8980)
SECTION 02-00043-00-RS
SUMMARY OF QUANTITIES AND GENERAL NOTES

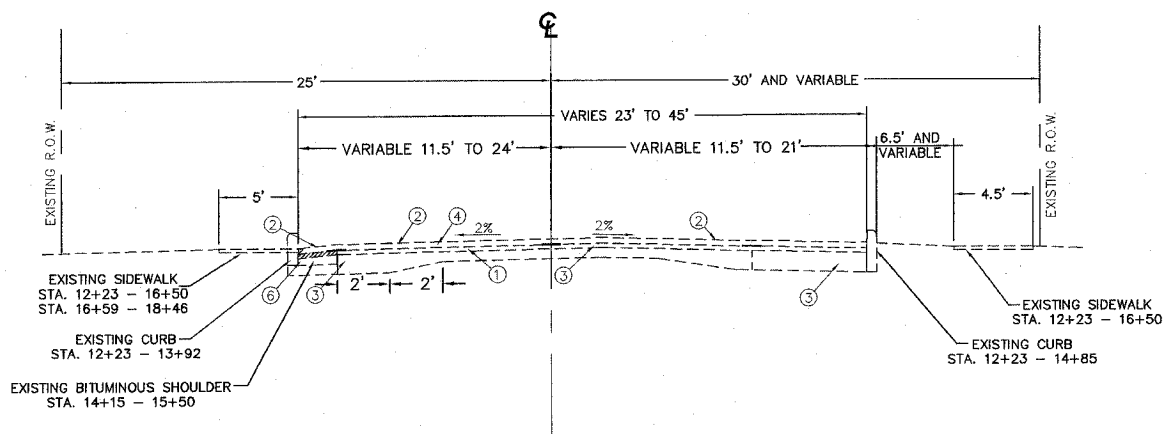
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JOB NO. 285879
DSN. BY: CLS
CHK. BY: JHJ
DATE: FEBRUARY, 2005
SCALE: NONE
SHEET 2 OF 18

REVISIONS

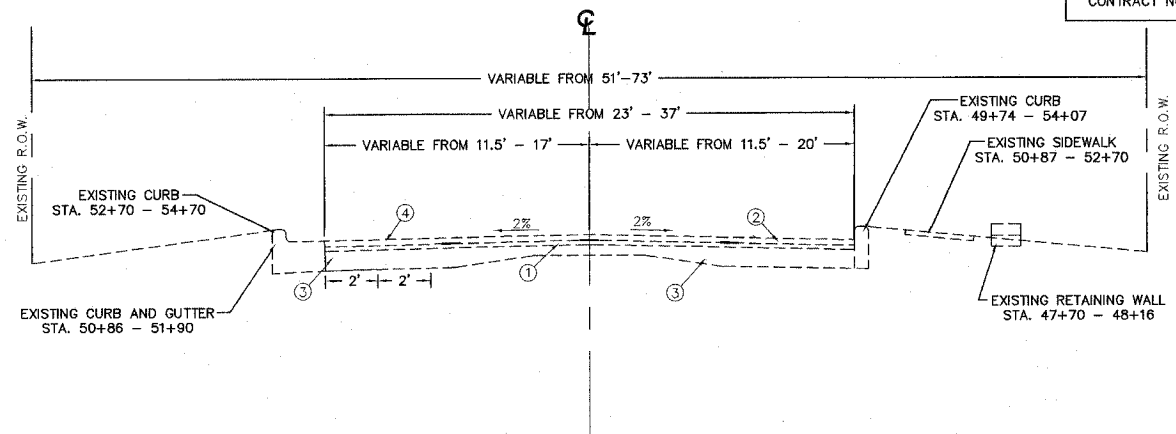
SMS ENGINEERS
 Sheppard, Morgan & Schwab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, P.O. Box E, Alton, IL 62002 • 618462-9755 • Email: mail@smsengr.com
 10 Central Industrial Drive, Granite City, IL 62040 • 618877-9700 • E-mail: mail@smsengr.com

WOOD RIVER, ILLINOIS
 RESURFACING PROJECT
 EDWARDSVILLE ROAD (FAU 8980)
 SECTION 02-00043-00-RS
 TYPICAL SECTIONS

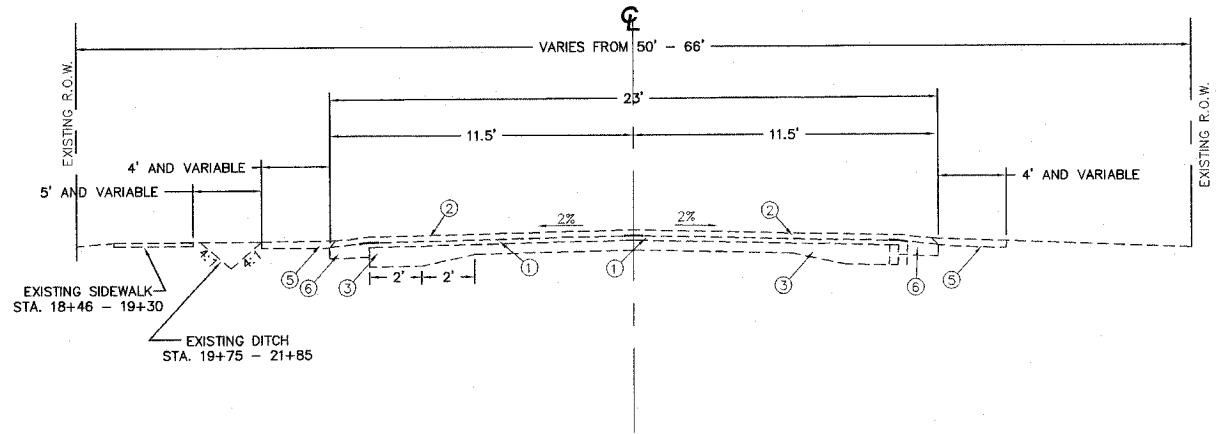
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DWN. BY:	JHH
CHK. BY:	
DATE:	FEBRUARY, 2005
SCALE:	NONE
SHEET	3 OF 18



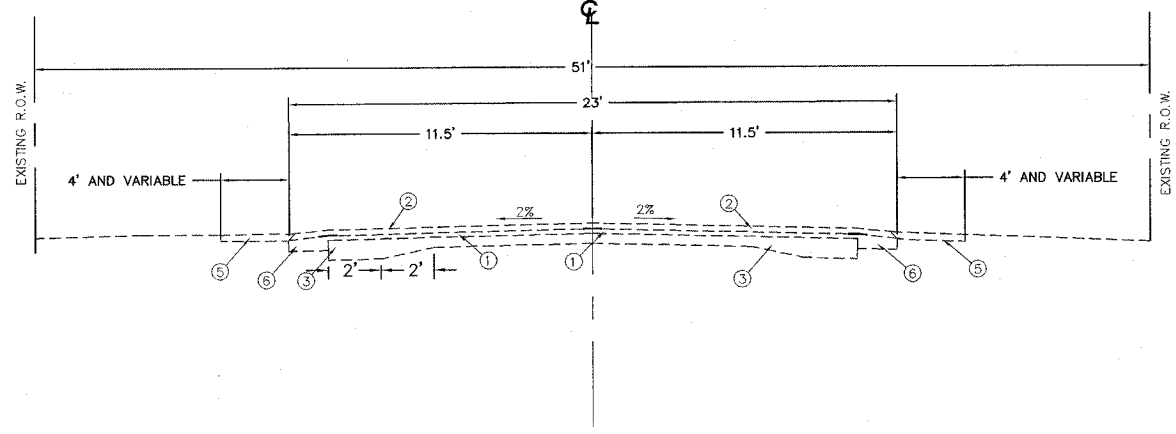
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 STA. 12+23.01 - 18+46
 N.T.S.



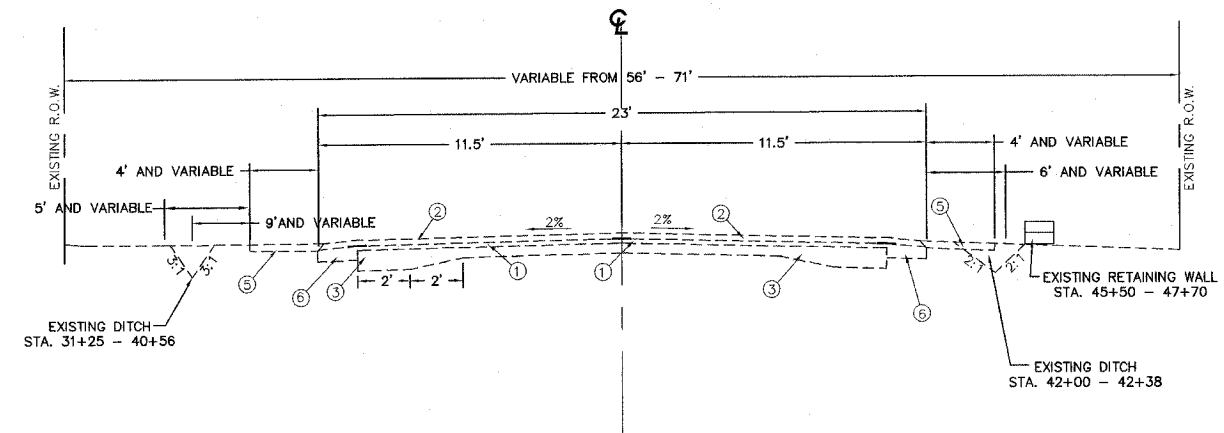
EXISTING TYPICAL SECTION
 STA. 47+93 - 56+31
 N.T.S.



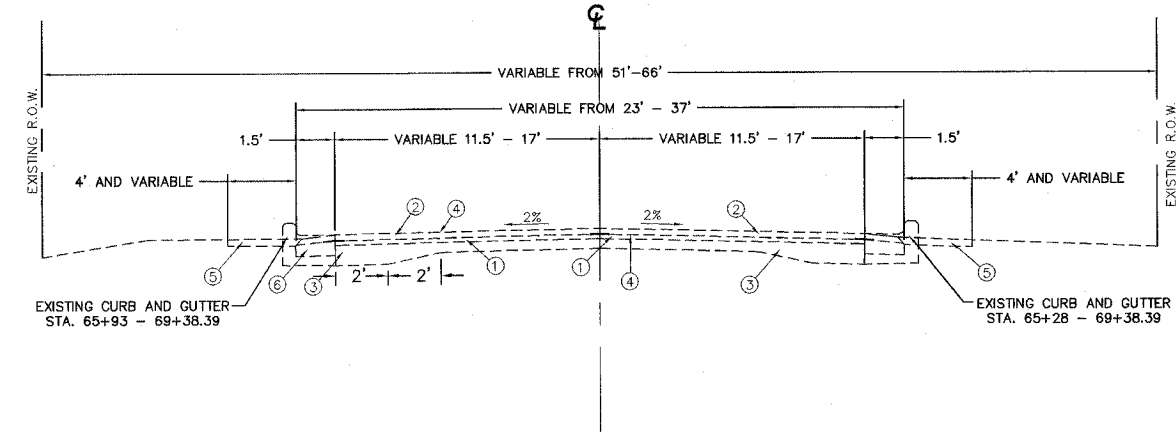
EXISTING TYPICAL SECTION
 STA. 18+46 - 31+00
 N.T.S.



EXISTING TYPICAL SECTION
 STA. 56+31 - 61+70
 N.T.S.



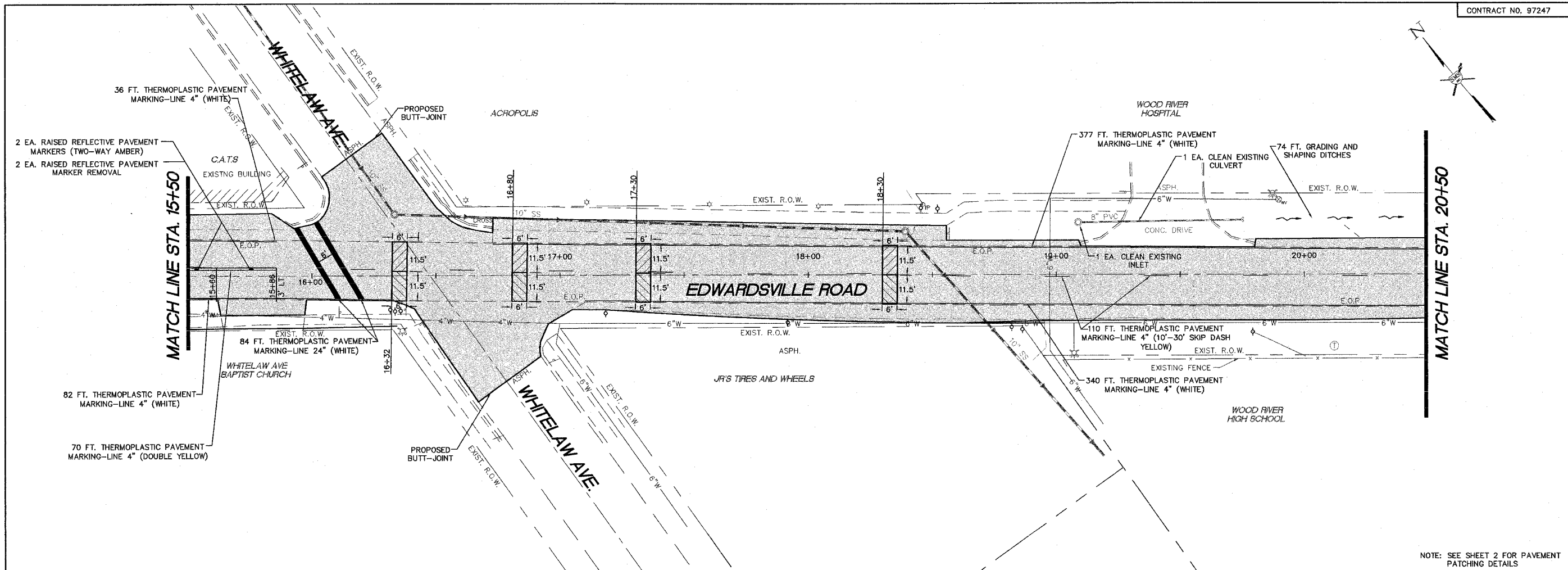
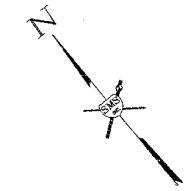
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 STA. 31+00 - 47+93
 N.T.S.



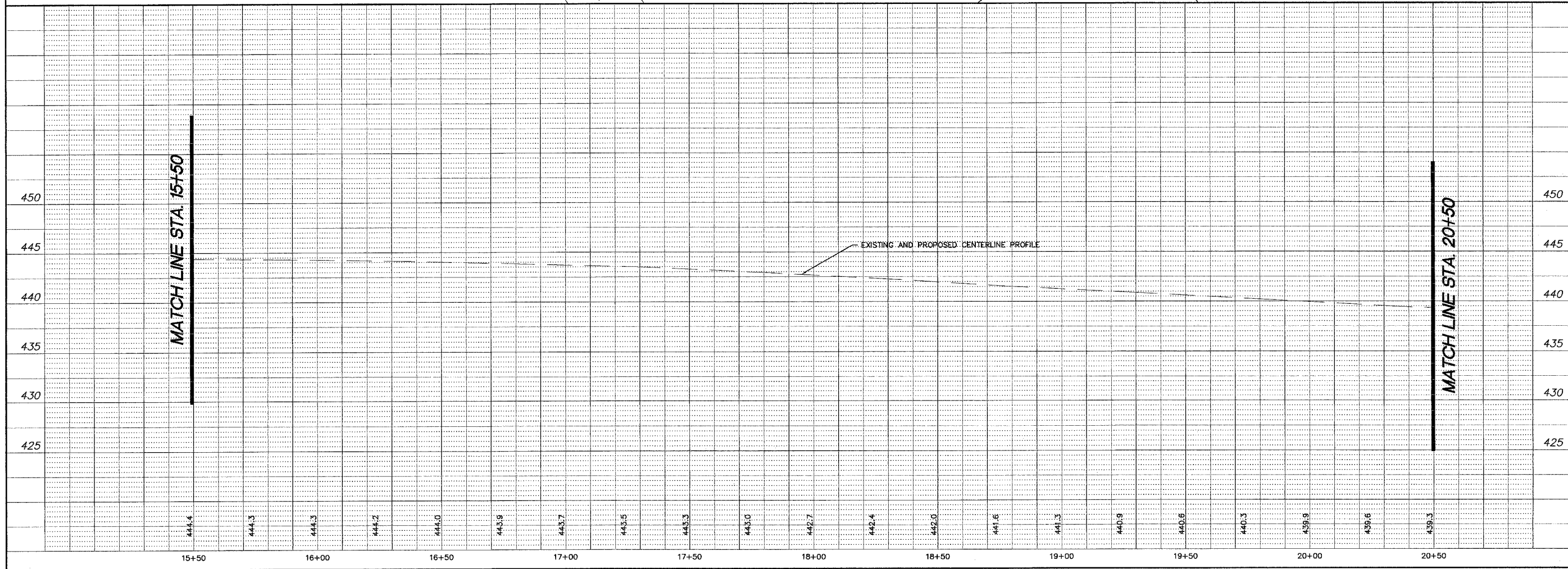
EXISTING TYPICAL SECTION
 STA. 61+70 - 69+38.39
 N.T.S.

LEGEND

- ① EXISTING 1 1/2" BITUMINOUS CONCRETE BINDER COURSE
- ② EXISTING 8" OPEN GRADED PLANT MIX SURFACE COURSE
- ③ EXISTING PCC PAVEMENT (9"-7 3/8"-9")
- ④ EXISTING BITUMINOUS SURFACE COURSE 1 1/2"
- ⑤ EXISTING BITUMINOUS SHOULDER
- ⑥ EXISTING BITUMINOUS WIDENING 7 1/2"



NOTE: SEE SHEET 2 FOR PAVEMENT PATCHING DETAILS

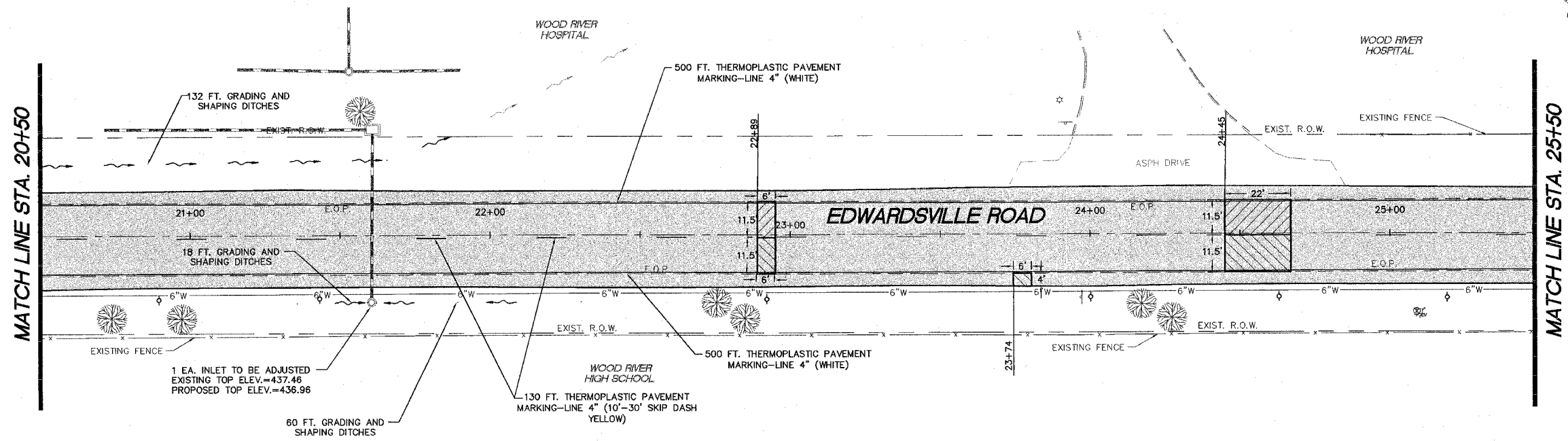
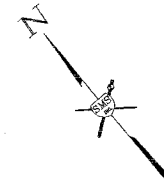


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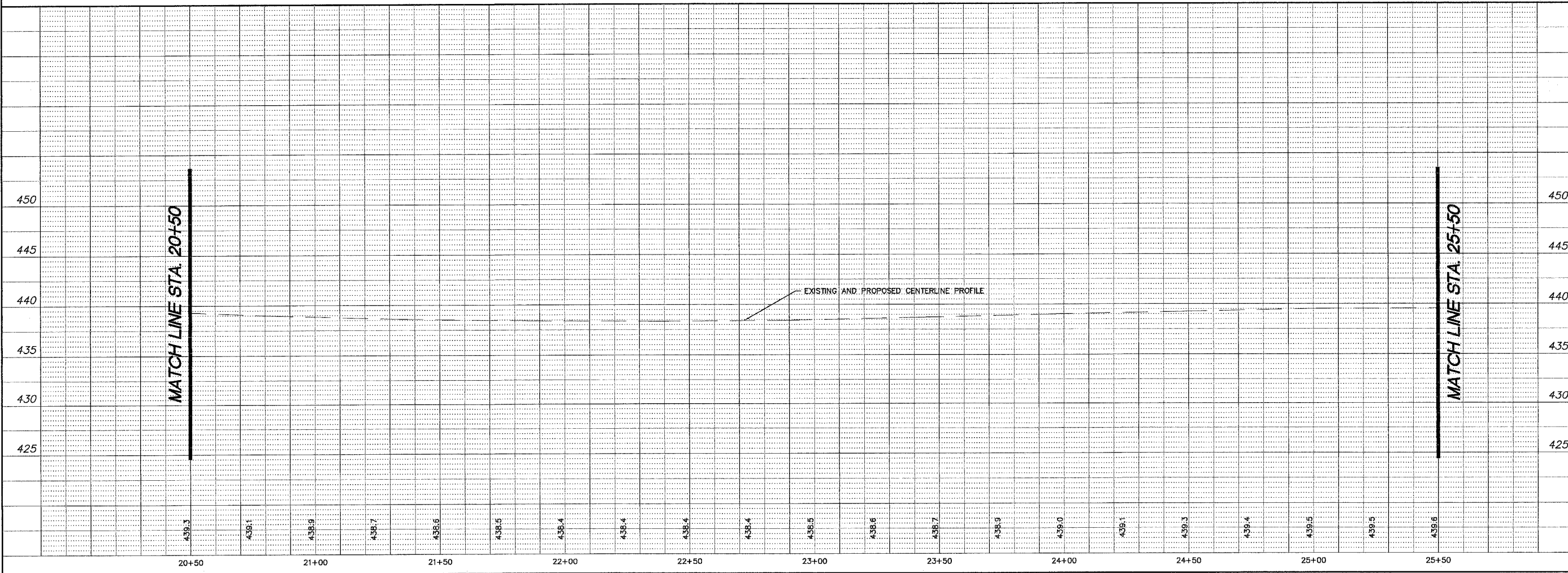
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WOOD RIVER, ILLINOIS
 RESURFACING PROJECT
 EDWARDSVILLE ROAD (FAU 8980)
 SECTION 02-00043-00-RS
 PLAN AND PROFILE

REF. BK.	PG.
JOB NO.	285879
DSN. BY:	CLA
DWN. BY:	CDP
CHK. BY:	JWH
DATE:	FEBRUARY, 2005
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	6 OF 18



NOTE: SEE SHEET 2 FOR PAVEMENT PATCHING DETAILS



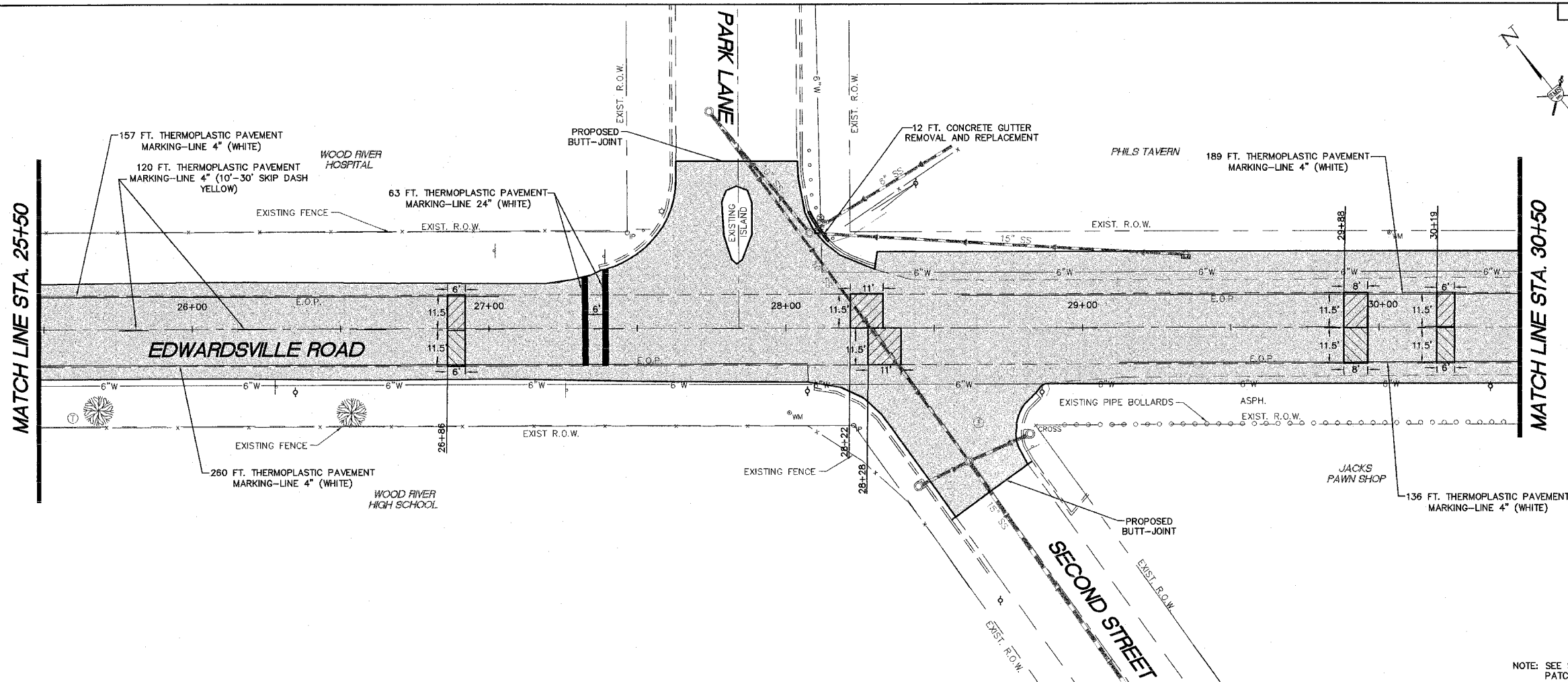
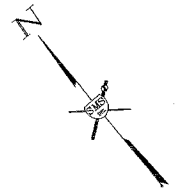
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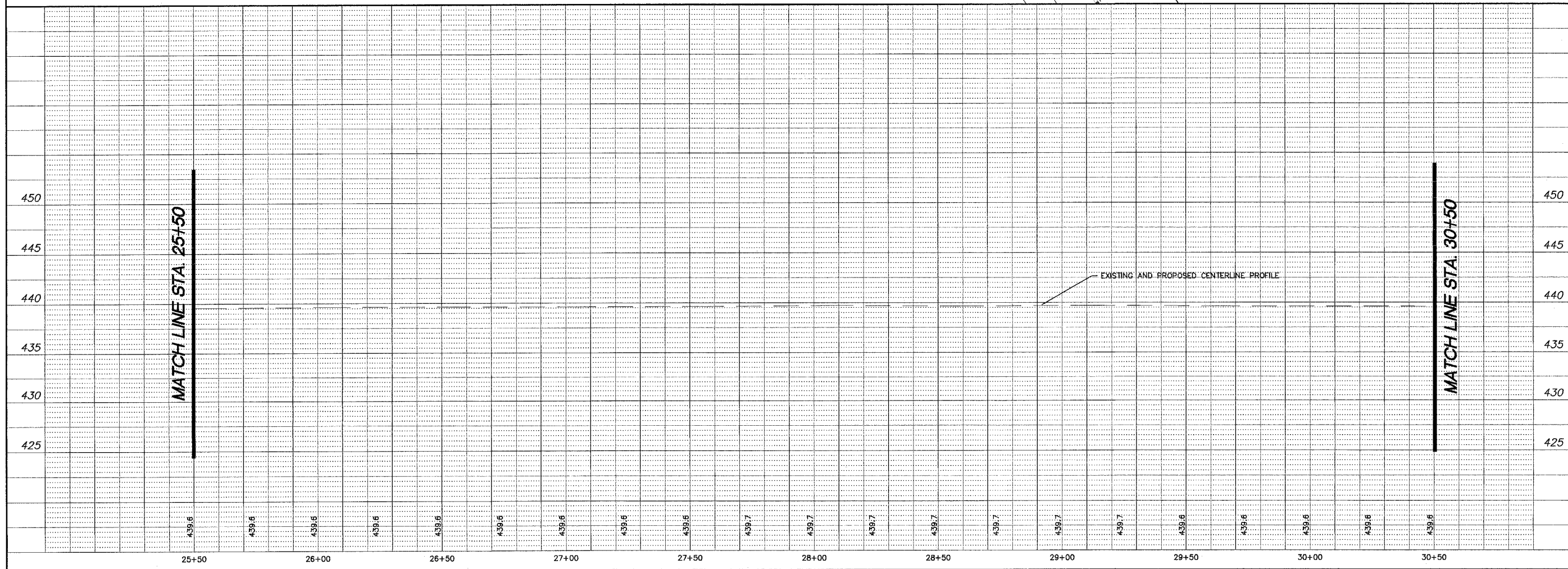
ENGINEERS

WOOD RIVER, ILLINOIS
 RESURFACING PROJECT
 EDWARDSVILLE ROAD (FAU 8980)
 SECTION 02-00043-00-RS
 PLAN AND PROFILE

REF. BK.	PG.
JOB NO.	285879
DSN. BY:	CLA
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DATE:	FEBRUARY, 2005
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	7 OF 18



NOTE: SEE SHEET 2 FOR PAVEMENT PATCHING DETAILS



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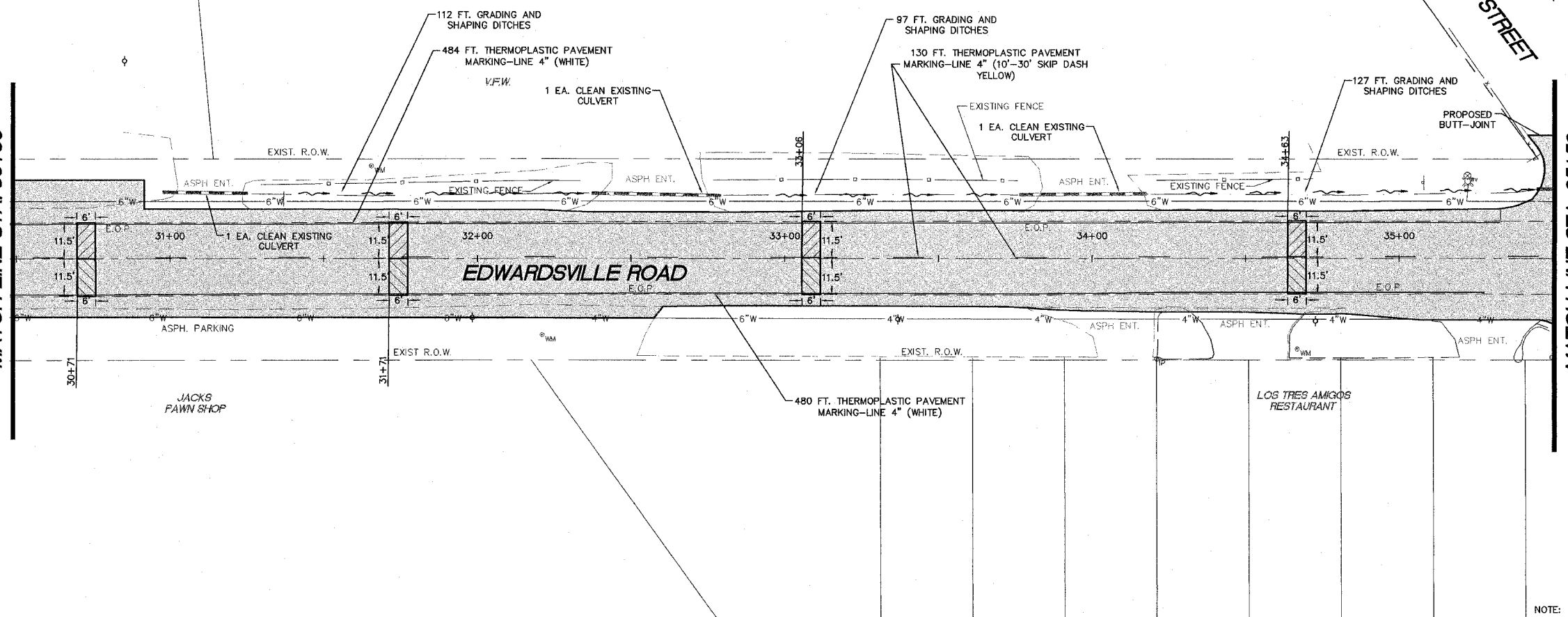
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 RESURFACING PROJECT
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 SECTION 02-00043-00-RS
 PLAN AND PROFILE

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JOB NO.	285879
DSN. BY:	CLA
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DATE:	FEBRUARY, 2005
SCALE:	HORIZ 1"=20' VERT. 1"=5'
SHEET	8 OF 18

MATCH LINE STA. 30+50

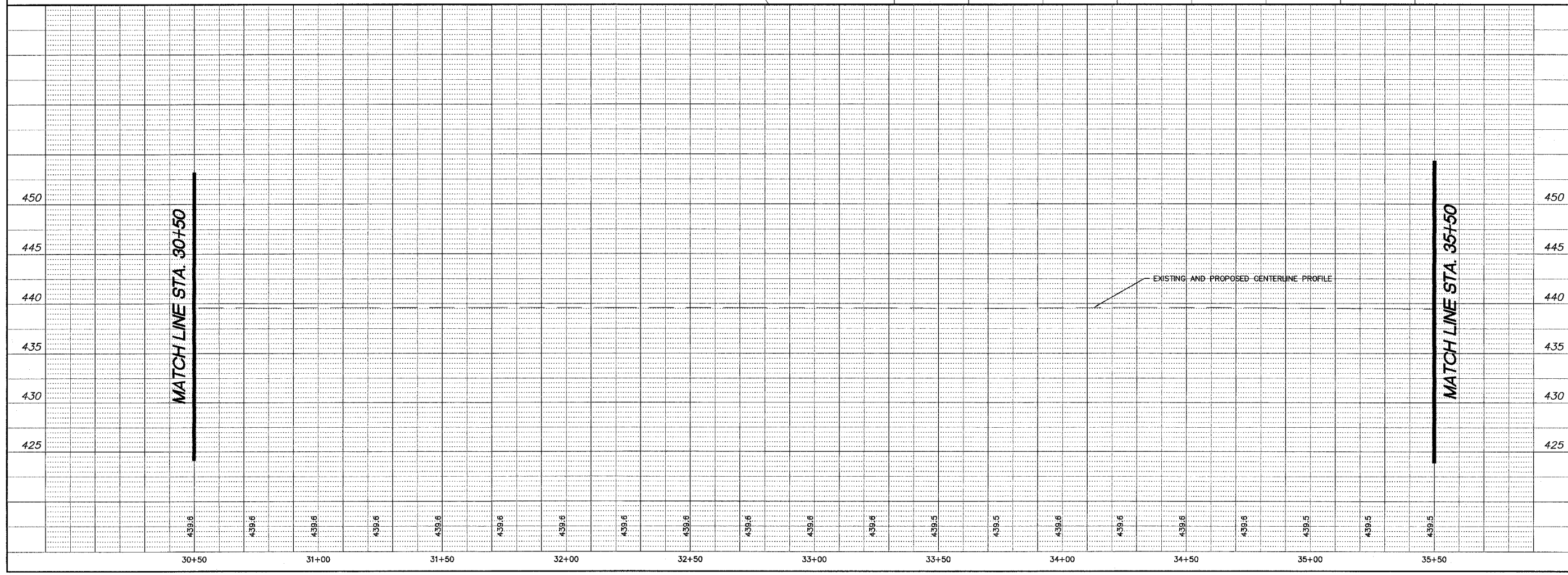
MATCH LINE STA. 35+50



NOTE: SEE SHEET 2 FOR PAVEMENT PATCHING DETAILS

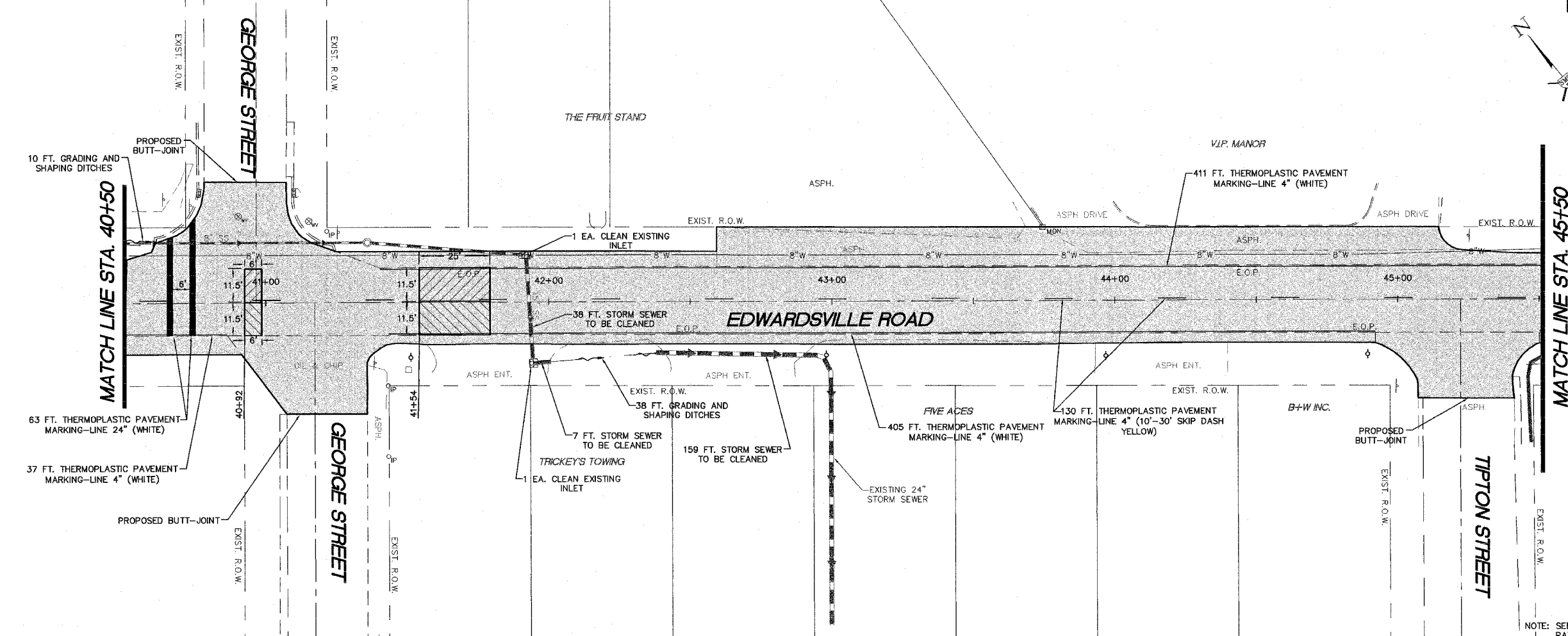
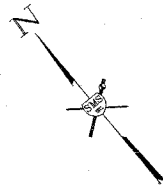
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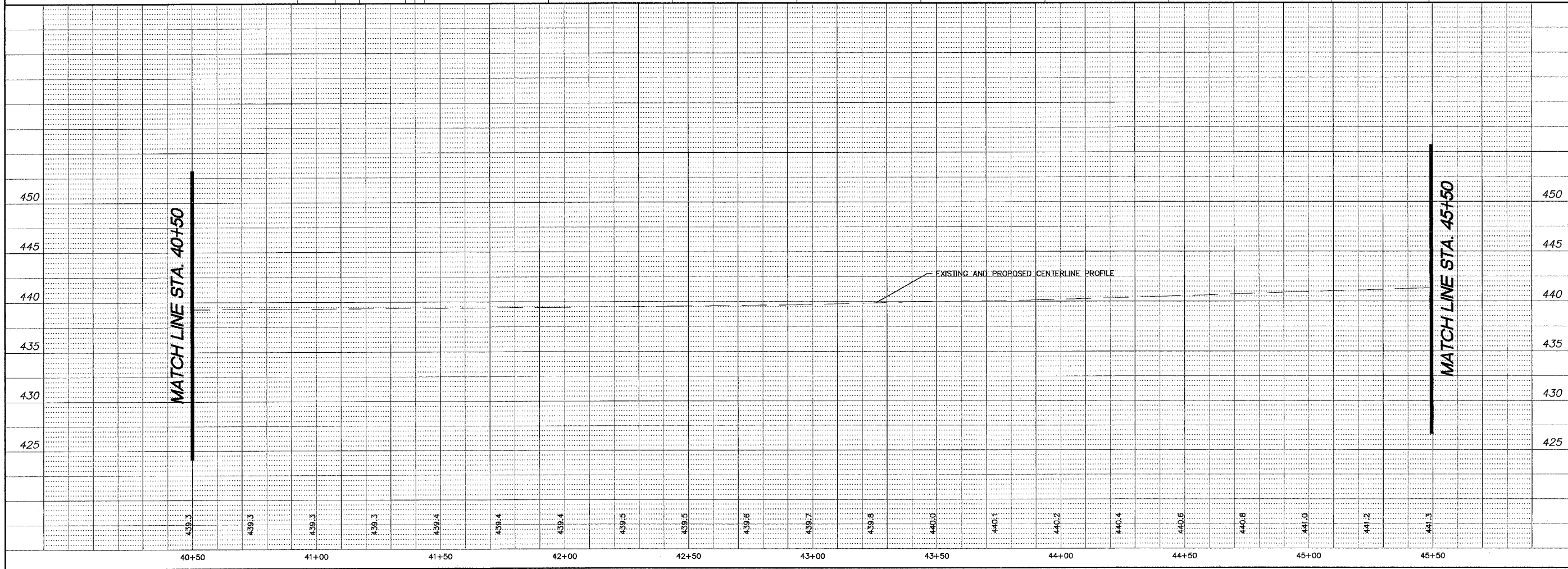


WOOD RIVER, ILLINOIS
 RESURFACING PROJECT
 EDWARDSVILLE ROAD (FAU 8980)
 SECTION 02-00043-00-RS
 PLAN AND PROFILE

REF. BK.	PPSHEETS.DWG
JOB NO.	285879
DSN. BY:	CLA
DWN. BY:	CDP
CHK. BY:	JFH
DATE:	FEBRUARY, 2005
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	9 OF 18



NOTE: SEE SHEET 2 FOR PAVEMENT PATCHING DETAILS



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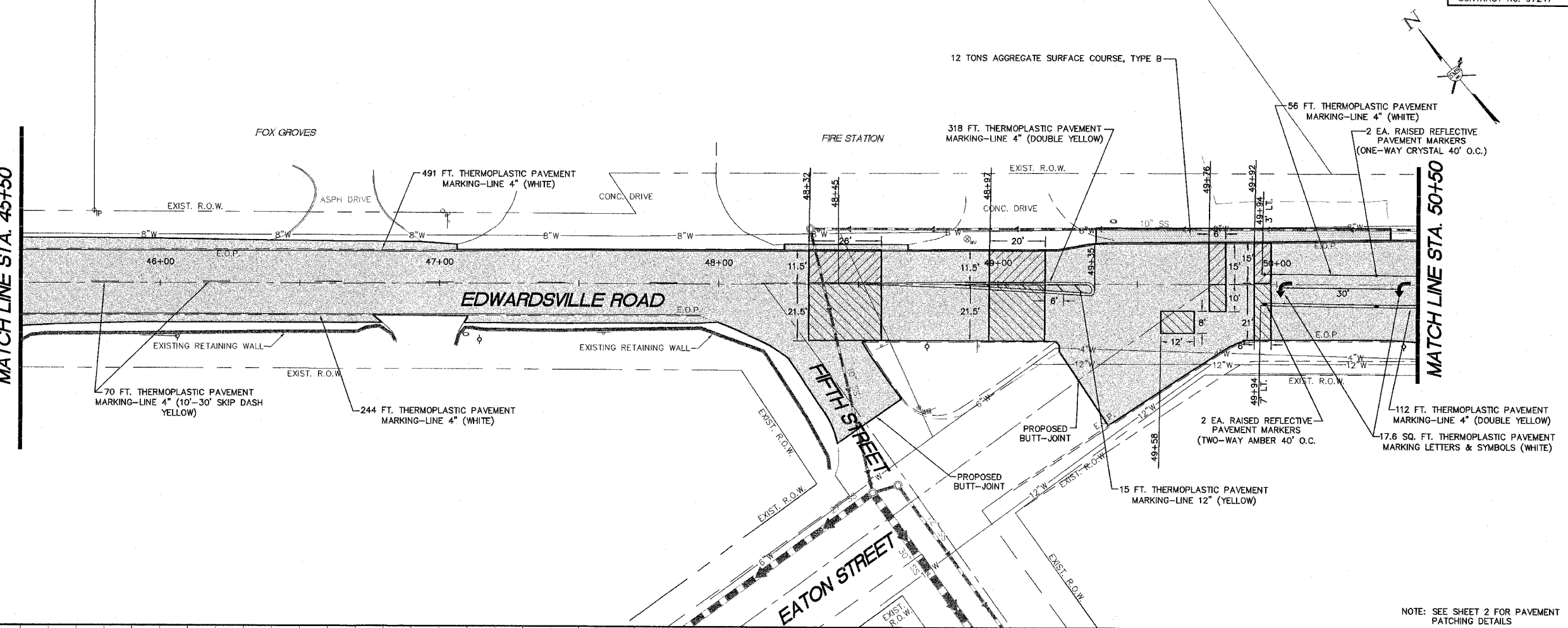


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 EDWARDSVILLE ROAD (FAU 8980)
 SECTION 02-00043-00-FS
 PLAN AND PROFILE

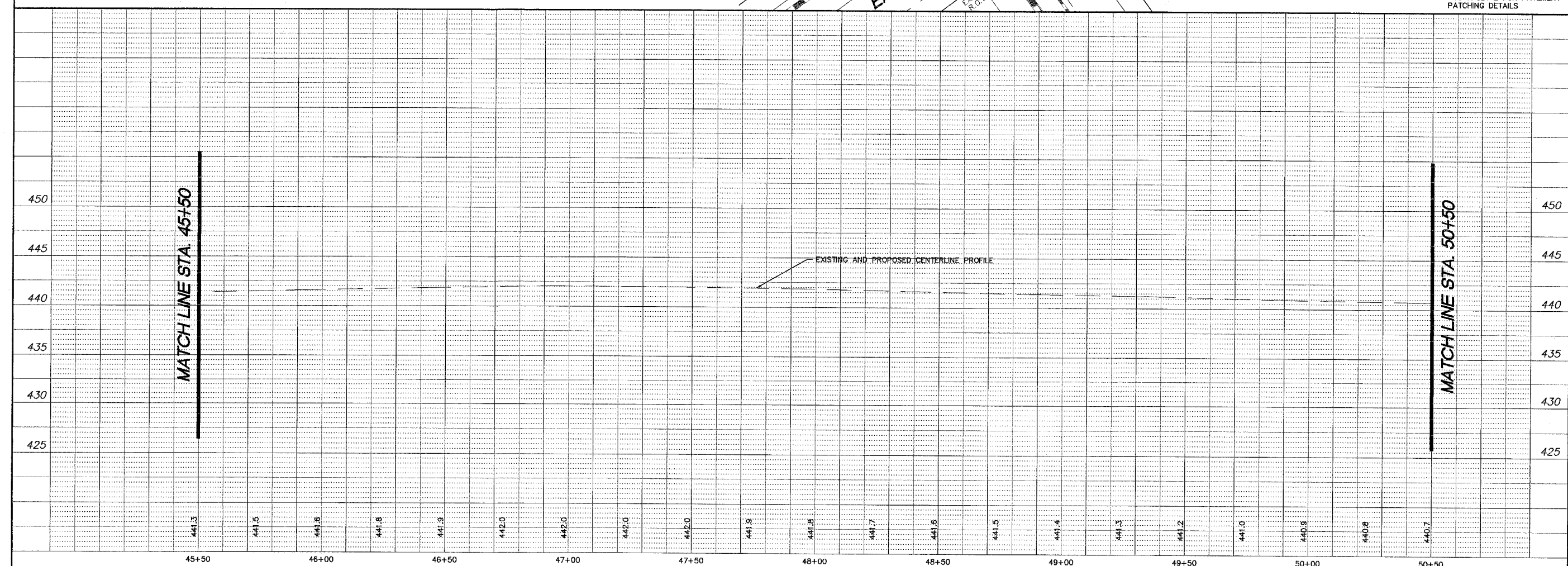
REF. BK.	PG.
JOB NO.	285879
DSN. BY:	GLA
DWN. BY:	CDP
CHK. BY:	JHH
DATE:	FEBRUARY, 2004
SCALE:	HORIZ 1"=20' VERT. 1"=5'
SHEET	11 OF 18

MATCH LINE STA. 45+50

MATCH LINE STA. 50+50



NOTE: SEE SHEET 2 FOR PAVEMENT PATCHING DETAILS

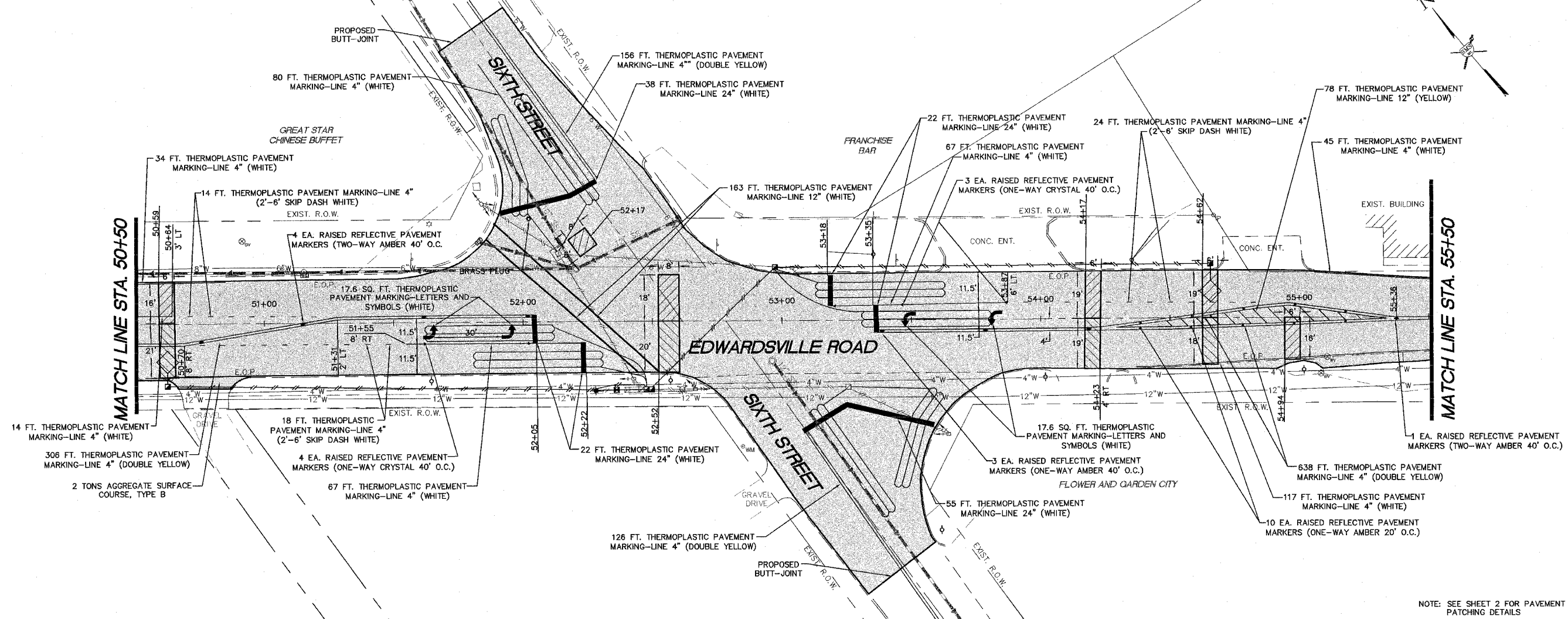
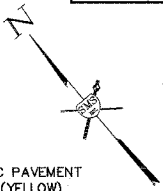


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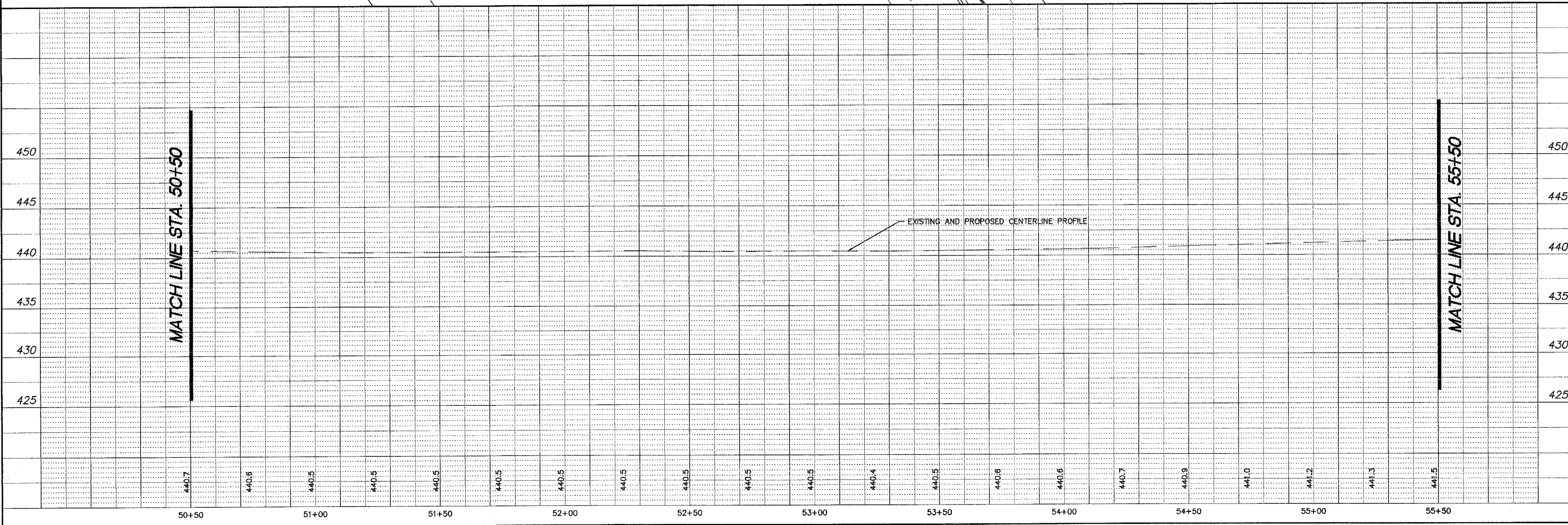
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WOOD RIVER, ILLINOIS
 RESURFACING PROJECT
 EDWARDSVILLE ROAD (FAU 8980)
 SECTION 02-00043-00-FS
 PLAN AND PROFILE

REF. BK.	PO
JOB NO.	285879
DSN. BY:	CLA
DWN. BY:	CDP
CHK. BY:	JHH
DATE:	FEBRUARY, 2005
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	12 OF 18



NOTE: SEE SHEET 2 FOR PAVEMENT PATCHING DETAILS

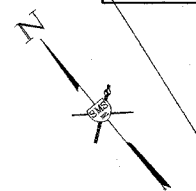


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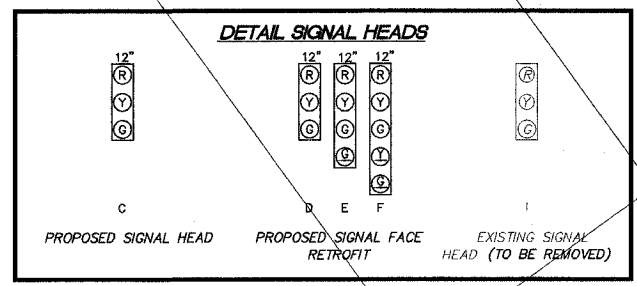
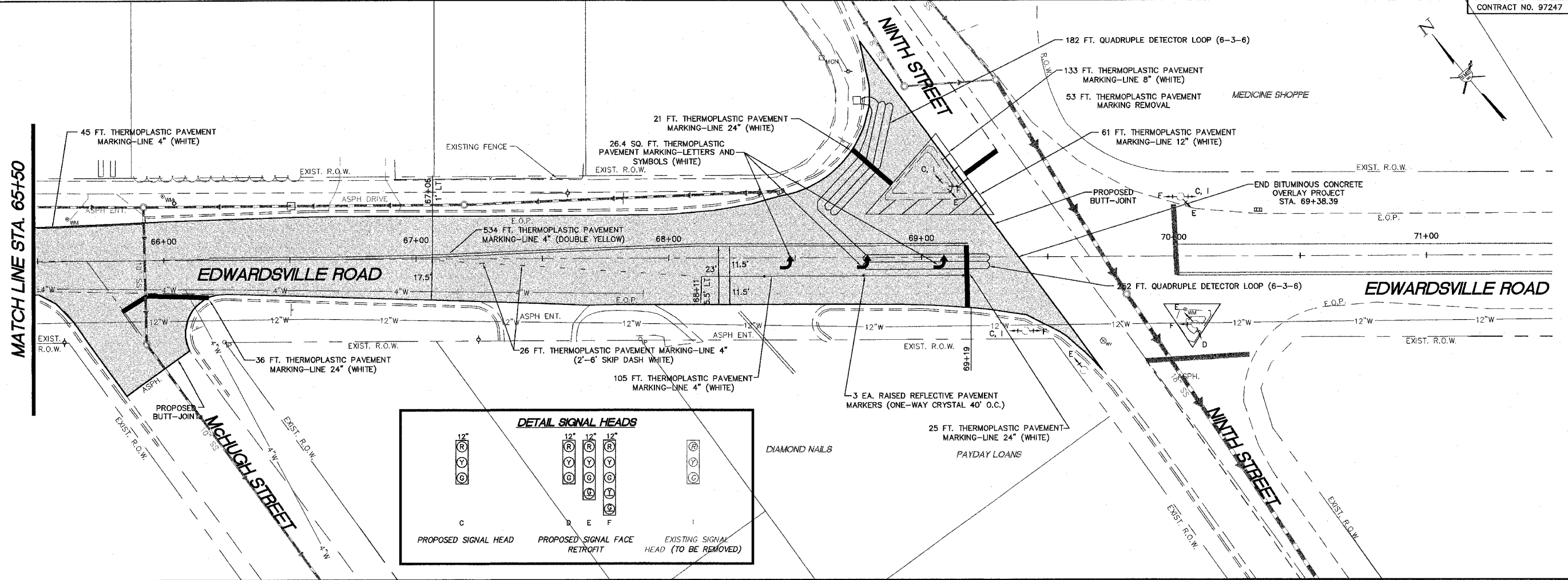
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 RESURFACING PROJECT
 EDWARDSVILLE ROAD (FAU 8980)
 SECTION 02-00043-00-RS
 PLAN AND PROFILE

PPSHEETS.DWG
REF. BK. PG.
JOB NO. 285879
DSN. BY: CLA
DWN. BY: CDP
CHK. BY: JHH
DATE: FEBRUARY, 2005
SCALE: HORIZ. 1"=20' VERT. 1"=5'
SHEET 13 OF 18

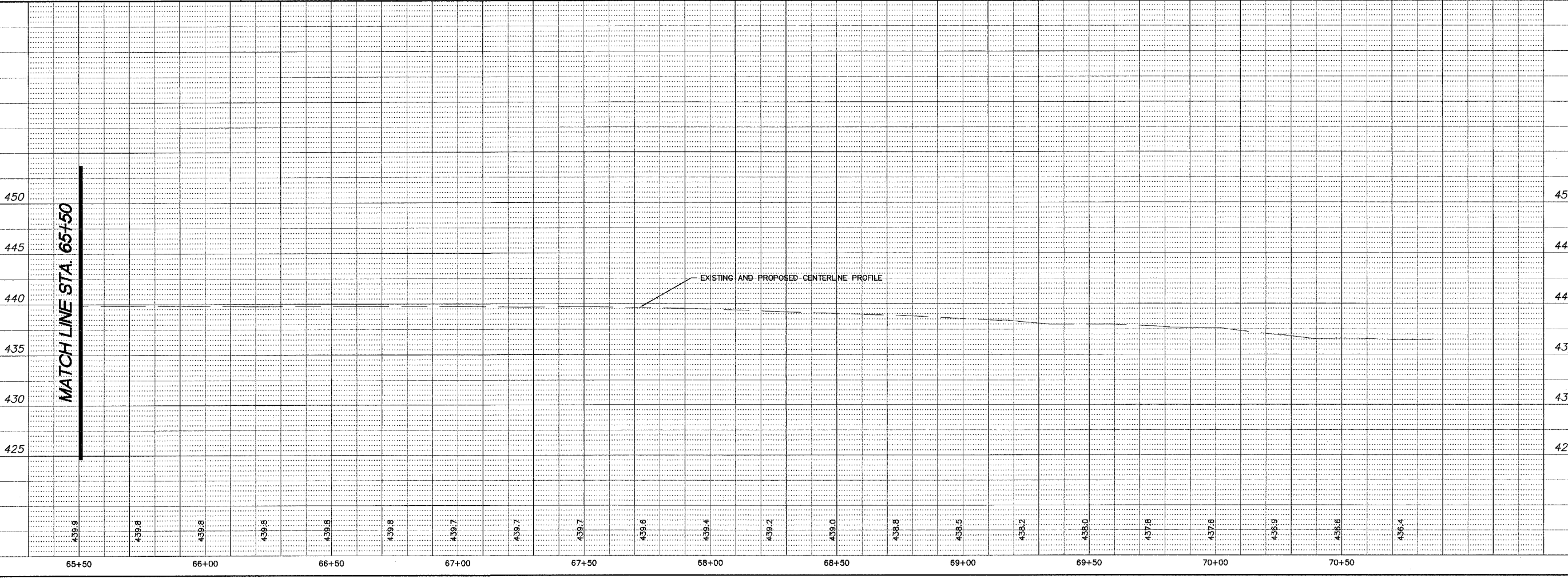


MATCH LINE STA. 65+50



NO.	DESCRIPTION

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 PLAN AND PROFILE

REF. BK.	PPSHEETS.DWG
JOB NO.	285579
DSN. BY:	CLA
DWN. BY:	CDP
CHK. BY:	JHH
DATE:	FEBRUARY, 2005
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	16 OF 18

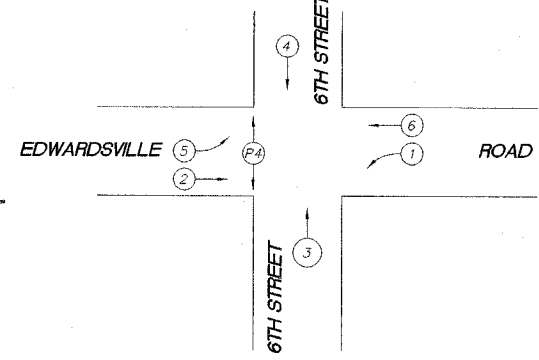
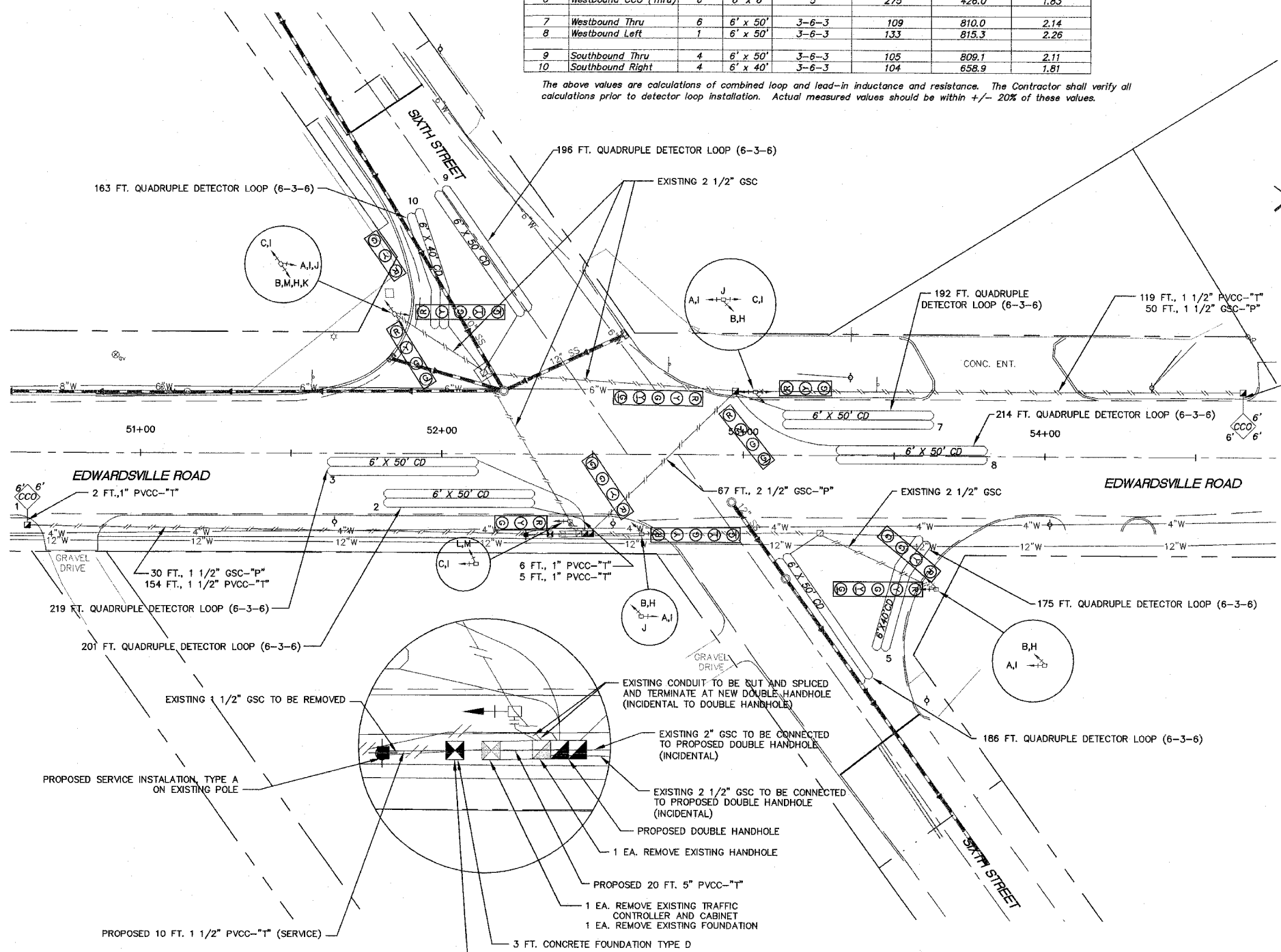
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

Loop #	Loop	Phase	Loop Size	Required No. of Turns	Lead-In Length (ft)	Required Inductance (μH)	Calculated Resistance (Ω)
1	Eastbound CCO (Thru)	2	6' x 6'	5	217	413.7	1.54
2	Eastbound Thru	2	6' x 50'	3-6-3	46	796.1	1.82
3	Eastbound Left	5	6' x 50'	3-6-3	48	796.6	1.83
4	Northbound Thru	3	6' x 50'	3-6-3	118	812.0	2.18
5	Northbound Right	3	6' x 40'	3-6-3	138	666.4	1.98
6	Westbound CCO (Thru)	6	6' x 6'	5	275	426.0	1.83
7	Westbound Thru	6	6' x 50'	3-6-3	109	810.0	2.14
8	Westbound Left	1	6' x 50'	3-6-3	133	815.3	2.26
9	Southbound Thru	4	6' x 50'	3-6-3	105	809.1	2.11
10	Southbound Right	4	6' x 40'	3-6-3	104	658.9	1.81

The above values are calculations of combined loop and lead-in inductance and resistance. The Contractor shall verify all calculations prior to detector loop installation. Actual measured values should be within +/- 20% of these values.

TRAFFIC SIGNAL LEGEND

- ⊙ EXISTING PEDESTRIAN PUSH BUTTON
- ⊠ PROPOSED CONTROLLER
- ⊡ EXISTING CONTROLLER
- — — — — EXISTING ELECTRIC CABLE IN CONDUIT
- — — — — PROPOSED ELECTRIC CABLE IN CONDUIT
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- | — CABLE SPLICE (SEE GENERAL NOTES)
- LD-IN ELECTRIC CABLE LEAD-IN, 1 PAIR
- CD CALL DELAY (SEE GENERAL NOTES)
- CCO CALL CARRY OVER (SEE GENERAL NOTES)
- | — PROPOSED SERVICE INSTALLATION, TYPE A
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE & CONDUCTORS (SEE GENERAL NOTES)
- ⊕ EXISTING HANDHOLE
- ⊠ PROPOSED HANDHOLE
- ⊡ PROPOSED DOUBLE HANDHOLE

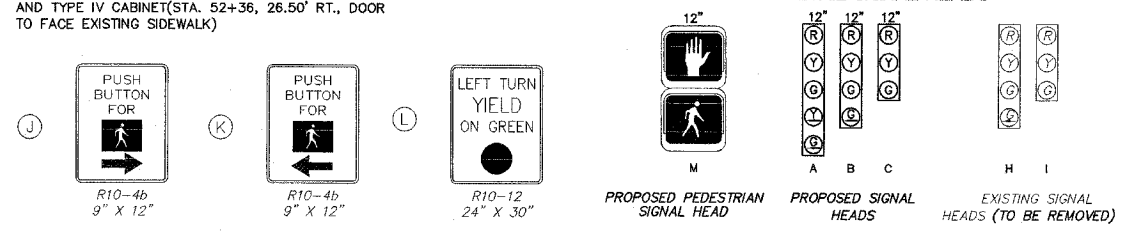


PHASE DESIGNATION DIAGRAM

ELECTRICAL GENERAL NOTES

1. ALL VEHICLE SIGNAL HEADS SHALL HAVE 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
2. BACKPLATES SHALL BE ABS PLASTIC.
3. THE CONTROLLER CABINET SHALL BE UNPAINTED ALUMINUM.
4. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STANDARD COPPER UNLESS OTHERWISE SPECIFIED.
5. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
6. DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873 OF THE STANDARD SPECIFICATIONS. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD FILLED WITH NON-HARDENING EPOXY FILLER. ROSIN-CORE SOLDER SHALL BE USED.
7. CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
8. CALL CARRY OVER SHALL FUNCTION ONLY WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
9. ALL INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE. IF A TIME SETTING IS PROGRAMMED, THEY SHALL BE RACK MOUNTED.
11. SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS. ALL HANDHOLES SHALL BE CAST-IN PLACE WITH P.C. CONCRETE.
12. ANCHOR BOLTS, NUTS AND WASHERS REQUIRED WITH TYPE D FOUNDATION SHALL BE INCLUDED IN THE PAY ITEM "FULL-ACTUATED CONTROLLER AND TYPE IV CABINET".
13. THE CONTRACTOR SHALL INSTALL FOUR (4) GROUND RODS (3/4" DIA. X 12' LONG) AND #6 AWG BARE COPPER GROUND CONDUCTORS IN THE CONTROLLER FOUNDATION AS PER SPECIAL PROVISION, "CONCRETE FOUNDATION, TYPE D".
14. REMOVAL OF EXISTING CABLE FROM CONDUIT SHALL BE IN ACCORDANCE WITH ARTICLE 895.05 OF THE STANDARD SPECIFICATIONS EXCEPT PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE PER LUMP SUM.

DETAIL SIGNAL HEADS



REVISIONS

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WOOD RIVER, ILLINOIS
 RESURFACING PROJECT
 EDWARDSVILLE ROAD (FAU 8980)
 SECTION 02-00043-00-RS
 TRAFFIC SIGNAL PLAN

