

DESIGN CLASSIFICATION

ROAD CLASSIFICATION = MINOR ARTERIAL
 CURRENT ADT 2004 = 3520 VEHICLES
 DESIGN ADT 2026 = 4400 VEHICLES
 POSTED SPEED = 35 MPH
 DESIGN SPEED = 35 MPH

LIST OF STANDARDS

EROSION CONTROL	280001-02
PAVEMENT	424001-04
DRAINAGE	542301
	542306
	542401
	542601
	602301-01
	602401-01
	602601
	604001-02
	604006-02
	604011-02
	604036-01
TRAFFIC CONTROL	606001-02
	701006-02
	701311-02
	701501-03
PAVEMENT MARKING	702001-06
	780001-01

SCALES

PLAN 1" = 50'
 PROFILE HOR. 1" = 50'
 PROFILE VERT. 1" = 10'
 CROSS SECTIONS HOR. 1" = 10'
 CROSS SECTIONS VERT. 1" = 10'

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	COVER
2	TYPICAL SECTIONS
3	GENERAL NOTES AND SCHEDULES
4	SUMMARY OF QUANTITIES
5-9	PLAN & PROFILE
10-11	SIDE ROAD/ENTRANCE SCHEDULE & DETAILS
12	STRIPING & CULVERT SCHEDULE/BUTT-JOINT DETAILS
13-24	CROSS-SECTIONS

UTILITIES

CALL J.U.L.I.E. BEFORE YOU DIG
 800-892-0123

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

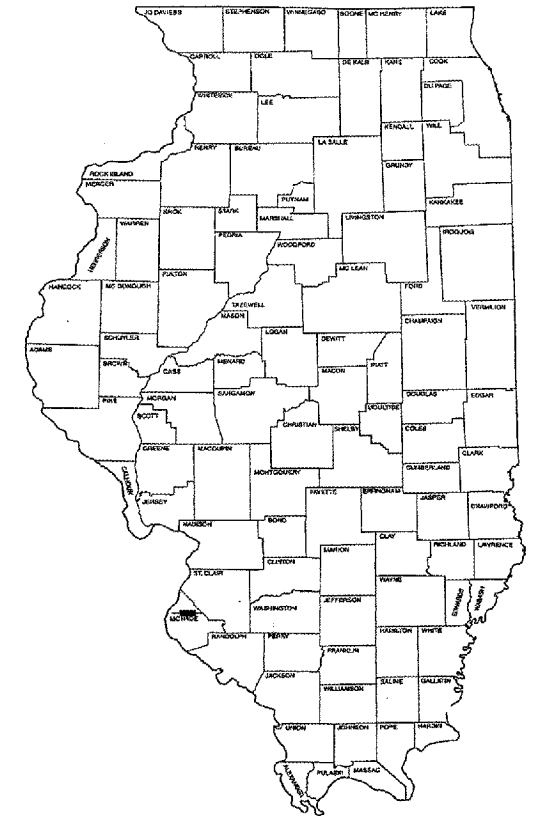
**PLANS FOR PROPOSED
 FEDERAL AID HIGHWAY**

FAU ROUTE 9319 (CH 2 EXTENSION)
 HAMACHER STREET IMPROVEMENT
 SECTION 04-00042-01-WR
 PROJECT NO. M-5011(198)

COUNTY OF MONROE
 JOB NO. C-98-313-06

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	1

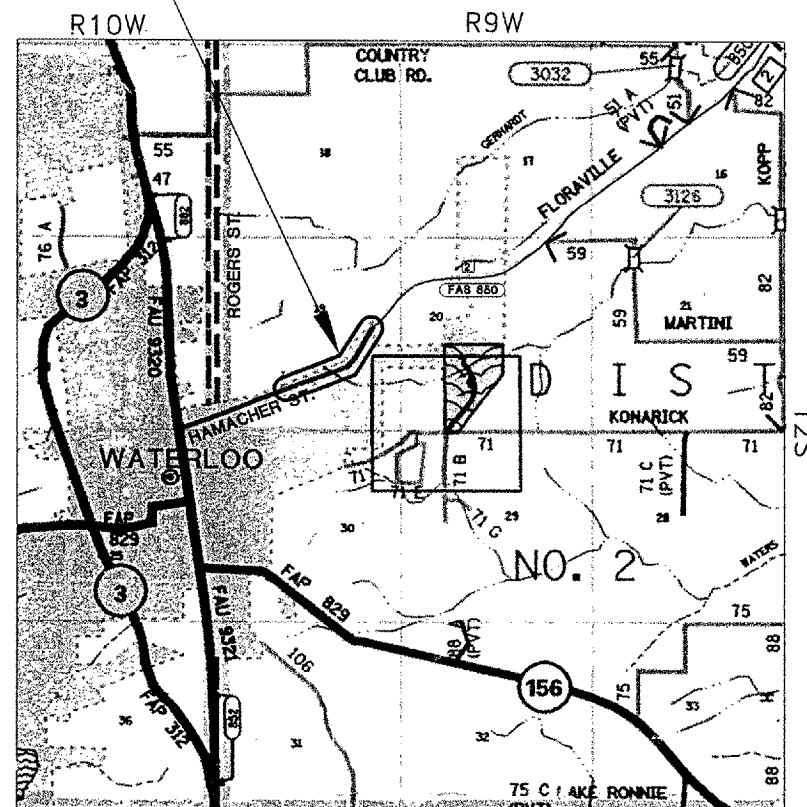
FEDERAL AID PROJECT
 CONTRACT 97275



LOCATION OF SECTION INDICATED THIS: [Symbol]

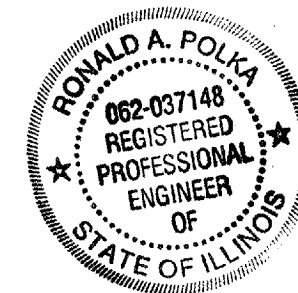
PROJECT LOCATION

MONROE CO.



LOCATION MAP

SCALE: 1" = 1 MILE
 NET LENGTH OF PROJECT 3057.7 FEET
 0.579 MILES



DRAWN BY AWM DATE 1-01-06
 CHECKED BY BAF DATE 1-12-06

DESIGN CERTIFICATION
 These plans were prepared by me or a full time member of my staff under my personal supervision.
 Ronald A. Polka 3-10-06
 County Engineer Date
 Illinois Registered Professional Engineer No. 037148
 Expiration Date: 11/30/07

APPROVED MARLN 10 20 06
 Ronald A. Polka
 LOCAL AGENCY OFFICIAL

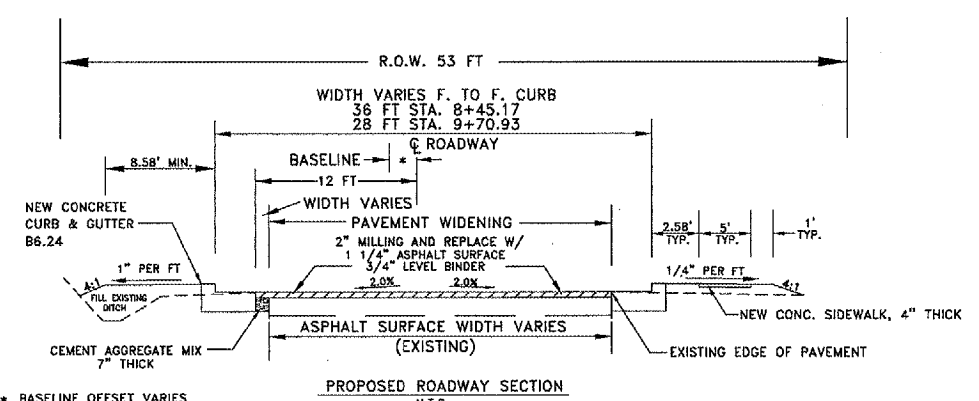
PASSED April 6 20 06
 Jennifer Obernue
 DISTRICT ENGINEER OF LOCAL ROADS & STREETS

APPROVED April 6 20 06
 Mary C. Lamb
 MARY C. LAMB, P.E.
 DEPUTY DIRECTOR OF HIGHWAYS
 REGION FIVE ENGINEER

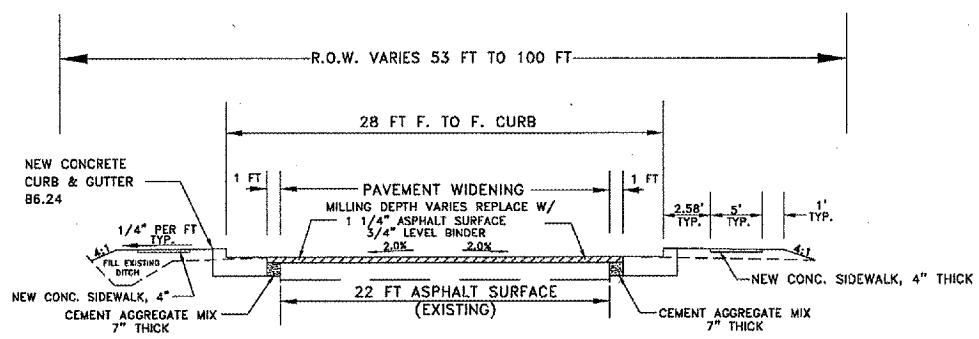
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	2

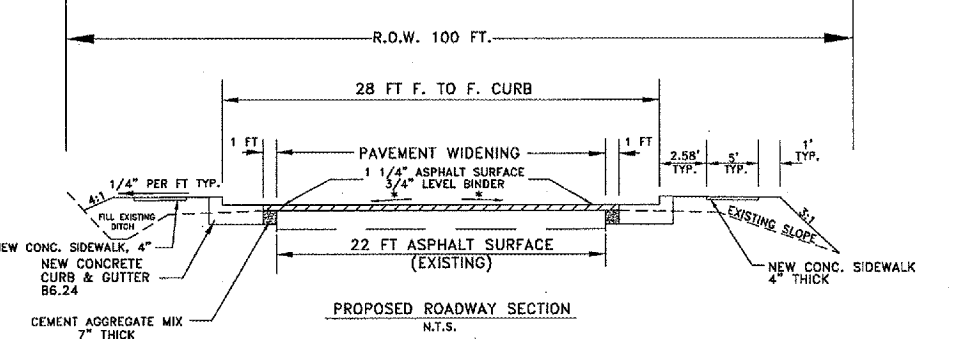
FEDERAL AID PROJECT
CONTRACT 97275



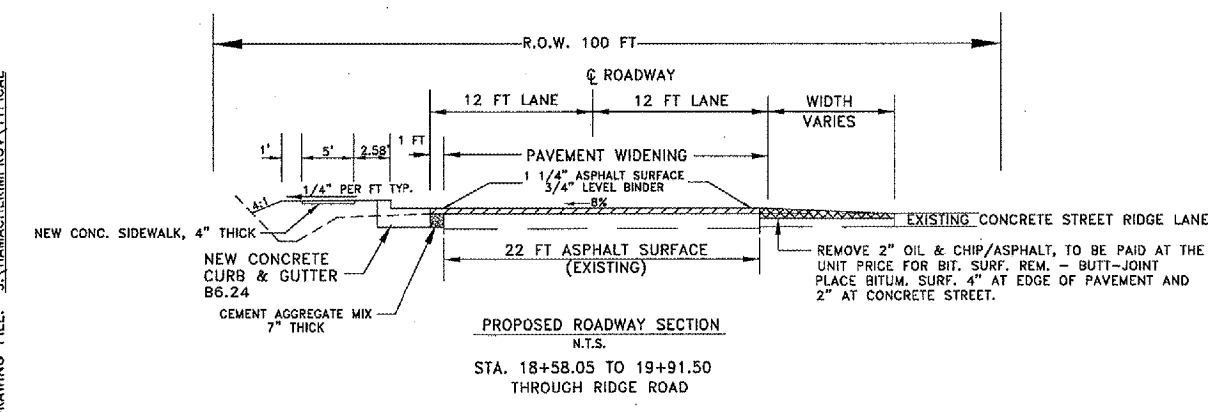
PROPOSED ROADWAY SECTION
N.T.S.
STA. 8+45.17 TO STA. 9+70.93
NORTH SIDE: TRANSITION IMPROVEMENTS TO STA. 8+45.17 (MATCH EXIST)
SOUTH SIDE: TIE INTO V-GUTTER ON OSTERHAGE DRIVE



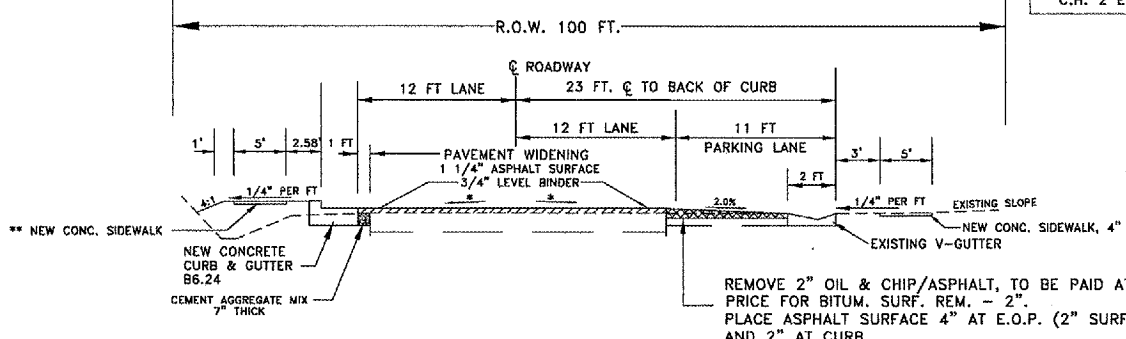
PROPOSED ROADWAY SECTION
N.T.S.
STA. 9+70.93 TO STA. 12+97
NORTH SIDE: TIE INTO CURB, MEDICAL BUILDING DRIVEWAY
SOUTH SIDE: TIE INTO V-GUTTER ON FAIRWAY DRIVE
2" MILLING STA. 9+70.93 TO STA. 12+17
MILLING DEPTH VARIES STA. 12+17 TO 12+97
* NORTH SIDE: BEGIN SIDEWALK STA. 11+79



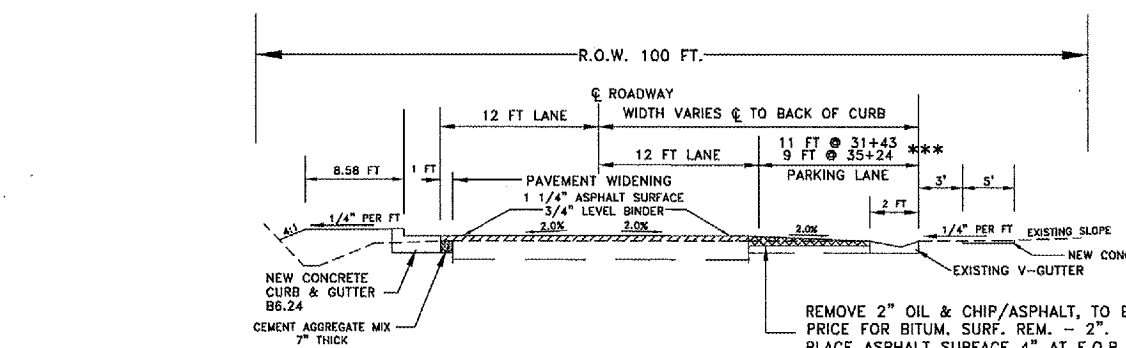
PROPOSED ROADWAY SECTION
N.T.S.
STA. 12+97 TO STA. 18+58.05
FAIRWAY DRIVE TO RIDGE ROAD
SOUTH SIDE: TIE INTO V-GUTTER AT RIDGE RD.
* SLOPE VARIES FROM 2.0% TO 8.0% IN SUPER



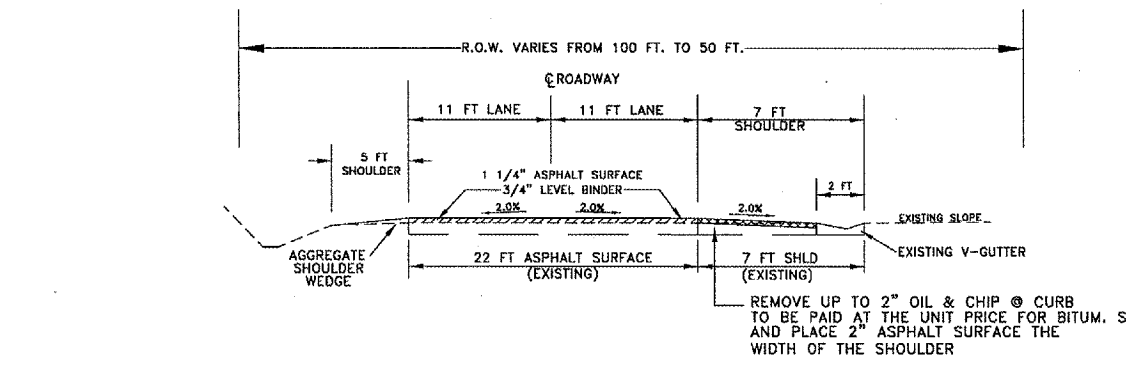
PROPOSED ROADWAY SECTION
N.T.S.
STA. 18+58.05 TO 19+91.50
THROUGH RIDGE ROAD



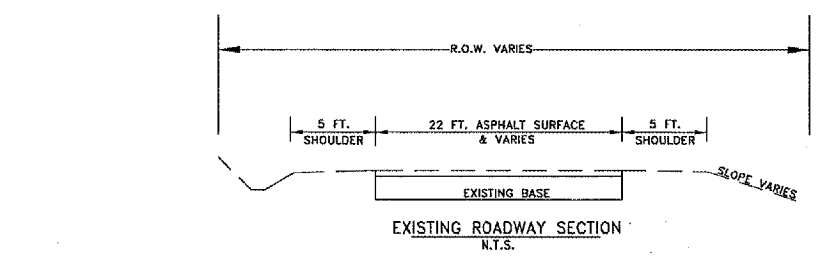
PROPOSED ROADWAY SECTION
N.T.S.
STA. 19+91.5 TO STA. 31+43
** NORTH SIDE: END SIDEWALK STA. 31+01.54
* SLOPE VARIES FROM 8.0% IN SUPER TO 2.0%



PROPOSED ROADWAY SECTION
N.T.S.
STA. 31+43 TO STA. 35+53
** NORTH SIDE: END CURB & GUTTER STA. 35+53
** SOUTH SIDE: END SIDEWALK STA. 35+00
*** WIDTH TRANSITIONS FROM 9 FT PARKING LANE STA. 35+25, TO 7 FT SHOULDER STA. 35+53.



PROPOSED ROADWAY SECTION
N.T.S.
STA. 35+53 TO 39+02.87
BUTT JOINT STA. 38+22.87 TO STA. 39+02.87
REMOVE UP TO 2" OIL & CHIP @ CURB TO BE PAID AT THE UNIT PRICE FOR BITUM. SURF. REM. BUTT-JOINT AND PLACE 2" ASPHALT SURFACE THE WIDTH OF THE SHOULDER



EXISTING ROADWAY SECTION
N.T.S.

NOTES:
TRANSITION 2" MILL STA. 12+17 TO 2" OVERLAY STA. 12+97.
ROADWAY CROSS SLOPE TO MATCH EXISTING.
BACK OF CURB GRADES TO BE MEASURED FROM EXISTING EDGE OF PAVEMENT.
BUTT JOINT STA 38+22.87 TO END OF PROJECT.

TYPICAL SECTIONS
HAMACHER STREET IMPROVEMENTS
SEC 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

DRAWING FILE: S:\HAMACHER\IMPROV\TYPICAL

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	3

FEDERAL AID PROJECT
CONTRACT 97275

GENERAL NOTES

EXISTING UTILITIES SHOWN ARE LOCATED FROM SURFACE OBSERVATIONS OR INFORMATION PROVIDED BY THE RESPECTIVE UTILITIES AND MUST BE CONSIDERED APPROXIMATE. THERE MAY BE OTHERS, THE EXACT LOCATION OF WHICH ARE UNKNOWN AND NOT SHOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE RESPECTIVE UTILITIES BEFORE WORK IS BEGUN. FIELD MARKINGS OF UNDERGROUND UTILITIES MAY BE OBTAINED BY PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 1-800-892-0123 OR BY DIRECT CONTACT WITH NON-MEMBERS OF J.U.L.I.E.

ELECTRIC

CITY OF WATERLOO
100 W. 4TH STREET
WATERLOO, ILLINOIS 62298
1-618-939-8600

MONROE COUNTY CO-OP
6132 STATE ROUTE 3
WATERLOO, ILLINOIS 62298
1-618-939-7171

TELEPHONE

HARRISONVILLE TELEPHONE COMPANY
213 SOUTH MAIN STREET
WATERLOO, ILLINOIS 62298
1-618-939-6112

CABLE TV

CHARTER COMMUNICATIONS
210 WEST DIVISION ST.
MARYVILLE, IL 62062
1-618-345-8003

WATER

CITY OF WATERLOO
100 W. 4TH STREET
WATERLOO, ILLINOIS 62298
1-618-939-8600

FIBER OPTIC

HARRISONVILLE TELEPHONE COMPANY
213 SOUTH MAIN STREET
WATERLOO, ILLINOIS 62298
1-618-939-6112

GAS

CITY OF WATERLOO
100 W. 4TH STREET
WATERLOO, ILLINOIS 62298
1-618-939-8600

SEWER

CITY OF WATERLOO
100 W. 4TH STREET
WATERLOO, ILLINOIS 62298
1-618-939-8600

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2002 AND THE LATEST SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

TRAFFIC CONTROL AND PROTECTION AND PROPER BARRICADES SHALL BE MAINTAINED BY THE CONTRACTOR.

USE ALL FLOURESCENT ORANGE CONSTRUCTION SIGNS.

NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED ON THIS PROJECT.

DITCHES ADJACENT TO EMBANKMENT SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.

FORMS FOR COMBINATION CONCRETE CURB AND GUTTER SHALL BE OF METAL ONLY, EXCEPT THAT WOOD FORMS SHALL BE USED ON SHORT RADIUS CURVES.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

FULL DEPTH SAW CUT SHALL BE REQUIRED FOR REMOVING PAVEMENT; AT THE EXISTING PAVEMENT OR APPURTENANCE IN PLACE. COST OF SAW CUT SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE FOR PAVEMENT REMOVAL.

FACTORS USED FOR QUANTITY CALCULATIONS ARE AS FOLLOWS:

- ALL BITUMINOUS CONCRETE - 112.0 LBS/SQ YD PER 1" THICKNESS
- BITUMINOUS MATERIALS (PRIME COAT) OVER AGGREGATE - 0.30 GAL/SQ.YD.
- BITUMINOUS MATERIAL (PRIME COAT) OVER ASPHALT - 0.05 GAL/SQ.YD.
- ALL AGGREGATE - 2.05 TONS/CU.YD.

THE THICKNESS OF THE BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS, DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR PLANNING, IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL IN ACCORDANCE WITH THE I.E.P.A. STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION AND AS DIRECTED BY THE ENGINEER.

SIDEWALK APPROX. STA. 19+92 RIGHT TO STA. 35+00 RIGHT SHALL HAVE EARLY COMPLETION. REFER TO SPECIAL PROVISIONS

UNDER NO CIRCUMSTANCES WILL ORGANIC MATERIAL (ORGANIC SILTS, LOW-GRADE PEAT, OR BURIED FORMER TOPSOIL) AS DETERMINED BY THE ENGINEER, BE USED IN THE CONSTRUCTION OF ANY EMBANKMENT.

SIDEWALK TO MATCH DRIVEWAY CROSS SLOPES STA. 22+50 TO STA. 31+43 RIGHT, AND STA. 10+39.44 RIGHT.

REMOVAL OF EXISTING AGGREGATE SHOULDER SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE FOR EARTH EX. MATERIAL MAY BE USED WITHIN EMBANKMENT PER THE STANDARD SPECIFICATIONS.

ACCESS SHALL BE PROVIDED FROM PRIVATE ENTRANCES AT ALL LOCATIONS DURING ALL STAGES. SEE SPECIAL PROVISION "AGGREGATE FOR TEMPORARY ACCESS" EXCEPT THAT CONTRACTOR MAY CLOSE ONE CARE CENTER ENTRANCE AT A TIME TO ALLOW FOR CONCRETE CONSTRUCTION.

ALL SEEDING ON LEFT TO BE CLASS 2, SPECIAL. ALL SEEDING ON RIGHT TO BE CLASS 1, SPECIAL.

CEMENT AGGREGATE MIX MAY BE USED IN LIEU OF PORTLAND CEMENT CONCRETE FOR BASE WIDENING.

A POURED IN PLACE CONCRETE COLLAR, OR APPROVED CONNECTION, BETWEEN WATER MAIN PIPE AND STORM SEWER CL B AT STA. 12+89.89, 22.4' LT, WILL BE REQUIRED. COST OF THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR STORM SEWERS CLASS B TY 1 18".

SALVAGE: MILLINGS, SEE SPECIAL PROVISIONS

MAINLINE SURFACING SUMMARY

LOCATION STATION - STATION	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	COMBINATION CURB & GUTTER, B6.24	PORTLAND CEMENT CONCRETE BASE WIDEN. 7" THICK	PCC SIDEWALK 5' WIDE/4" THICK	BITUMINOUS MATERIALS (PRIME COAT),	AGGREGATE (PRIME COAT)	BITUMINOUS SURFACE REMOVAL (BUTT JOINT)	BITUMINOUS SURFACE REMOVAL, 2"	AREA REFLECTIVE CRACK CONTROL
UNIT	TON	TON	LIN. FT.	SQ. YD.	SQ. FT.	GAL	TON	SQ. YD.	SQ. YD.	SQ. YD.
LEFT										
STA. 8+45.17 TO STA. 11+64.32	29.8	17.9	292	25.0	--	21	1.0	--	390.0	--
STA. 11+64.32 TO STA. 35+53	222.4	133.6	2353	252.0	8959	6	0.3	97.8	64.4	2903.7
STA. 35+53 TO STA. 39+02.87	29.9	18.0	--	--	--	15	0.7	97.8	--	332.3
RIGHT										
STA. 8+45.17 TO STA. 8+70.07	3.5	2.1	--	--	--	5	0.3	--	49.8	--
STA. 8+70.17 TO 11+75.79	32.3	19.4	221	17.0	1100	15	0.7	--	448.0	--
STA. 11+75.79 TO 19+27.33	70.7	42.8	610	72.0	3417	6	0.3	97.8	50.4	811.2
STA. 19+27.33 TO 31+43	212.3	166.4	--	--	4189	386	3.1	--	1226.0	1564.7
STA. 31+43 TO STA. 35+00	61.0	44.3	--	--	1493	90	0.7	--	309.5	459.5
STA. 35+00 TO 39+02.87	60.1	24.5	--	--	--	61	0.5	292.1	44.9	415.6
TOTALS	722.0	469.0	3476	366.0	19158	605.0	7.6	585.5	2583.0	6487.0

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CY)	EARTH EX. FROM STORM SEWER (CY)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CY)	EMBANKMENT (CY)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CY)
STA. 8+45.17 TO STA. 11+50	52	40	39	69	-30
STA. 11+50 TO STA. 19+50	113	183	85	940	-855
STA. 19+50 TO STA. 35+00	187	240	140	1342	-1202
STA. 35+00 TO STA. 39+02.87	2	0	2	92	-90
PROJECT TOTALS	354	463	613	2443	-1830

NOTE: AN ESTIMATED 463 CU. YD. OF ADDITIONAL MATERIAL WILL BE EXCAVATED DURING STORM SEWER INSTALLATION.

SUPERPAVE MIXTURE REQUIREMENTS

LOCATION(S)	ALL		
MIXTURE USE(S)	SURFACE	LEVELING BINDER	INCIDENTAL
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	15%	15%	15%
DESIGN AIR VOIDS	4.0% @ Ndes=50	4.0% @ Ndes=50	4.0% @ Ndes=50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5		
FRICITION AGGREGATE	MIXTURE C	MIXTURE C	MIXTURE C

GENERAL NOTES, SCHEDULES
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

SUMMARY OF QUANTITIES

1000

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
X0321061	STORM SEWERS, TYPE 1 WYE 18" PIPE - 12" BRANCH	EACH	4.0
X0322033	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	40.0
X0322035	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	100.0
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	722.0
X4066765	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	TON	469.0
X6020074	INLETS, TYPE A, TYPE 3V FRAME & GRATE	EACH	13.0
XX004949	INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE	TON	25.0
20200100	EARTH EXCAVATION	CU. YD.	354.0
20400800	FURNISHED EXCAVATION	CU. YD.	1830.0
20800150	TRENCH BACKFILL	CU. YD.	100.0
25000900	SEEDING, CLASS 1 (SPECIAL)	ACRE	0.5
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.8
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100.0
28000300	TEMPORARY DITCH CHECKS	EACH	30.0
28000400	PERIMETER EROSION BARRIER	FOOT	1000.0
28000500	INLET AND PIPE PROTECTION	EACH	14.0
28100707	STONE DUMPED RIP RAP, CLASS A4	SQ. YD.	10.0
35400200	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 7"	SQ. YD.	366.0
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	40.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	656.0
40600300	AGGREGATE (PRIME COAT)	TON	8.0
40600980	BITUMINOUS SURFACE REMOVAL-BUTT JOINT	SQ. YD.	720
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL-BUTT JOINT	SQ. YD.	52.0
42000100	PORTLAND CEMENT CONCRETE PAVEMENT, 6"	SQ. YD.	111.0
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	SQ. FT.	19158.0
42400800	DETECTABLE WARNINGS	SQ. FT.	154.0
44000007	BITUMINOUS SURFACE REMOVAL 2"	SQ. YD.	2583.0
44000100	PAVEMENT REMOVAL	SQ. YD.	202.0
44000500	COMBINATION CURB & GUTTER REMOVAL	FOOT	86.0
44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQ. YD.	6487.0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	14.0
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	201.0
550B0070	STORM SEWERS, CLASS B, TYPE 1 15"	FOOT	34.0
550B0980	STORM SEWERS, CLASS B, TYPE 1 18"	FOOT	1331.0
60218400	MANHOLE, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6.0
60235700	INLETS, TYPE A, TYPE 3 FRAME & GRATE	EACH	3.0
60238610	INLETS, TYPE A WITH SALVAGED GRATE	EACH	1.0
60406100	FRAMES & LIDS, TYPE 1, CLOSED LID	EACH	1.0
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	3615.0
67100100	MOBILIZATION	L. SUM	1.0
70101700	TRAFFIC CONTROL & PROTECTION	L. SUM	1.0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	918.0
* 70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	6618.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ. FT.	102.0
* 78000400	THERMOPLASTIC PAVEMENT MARKING LINE - 6"	FOOT	679.0
* 78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	6618.0
XX006555	STORM SEWERS, TYPE 1 WYE 18" PIPE - 15" BRANCH	EACH	1.0
XX006556	STORM SEWER TYPE 1 ELBOW, 12"	EACH	1.0
XX006557	END SECTIONS	EACH	5.0

DRAWING FILE: S:\HAMACHER IMPROV COVERHAM

* SPECIALTY ITEMS

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	4

FEDERAL AID PROJECT
CONTRACT 97275

NOTE: THERE SHALL BE NO PAY ITEM FOR PIPE CULVERT OR M.E.S. REMOVAL & REPLACE, COST FOR ANY SUCH WORK SHALL BE INCLUDED IN MANHOLE 4' DIA. EXCEPT M.E.S. STA. 33+98.37 LEFT SHALL BE INCLUDED IN EARTH EX.

ALL CORRUGATED METAL PIPE NEEDED TO EXTEND CULVERTS SHALL BE SUPPLIED BY THE LOCAL AGENCY.

ALL ASPHALT BINDER FOR REFLECTIVE CRACK CONTROL FABRIC AND ANY AGGREGATE NEEDED SHALL BE INCLUDED IN THE UNIT PRICE FOR AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. SEE SPECIAL PROVISIONS AND DETAIL SHEET 12.

AT LOCATIONS WHERE THE NEW SIDEWALK CURB RAMP CROSSES AN EXISTING CURB, IF REQUIRED THE EXISTING CURB SHALL BE REMOVED AND REPLACED PER THE STANDARD PLANS IN ORDER TO MEET ALL HANDICAP ACCESSIBLE GUIDELINES. THE COST TO REMOVE AND REPLACE THE CURB SHALL BE PAID AT THE UNIT PRICE FOR CURB REMOVAL AND COMB. CURB AND GUTTER RESPECTIVELY.

A POURED IN PLACE CONCRETE COLLAR, OR APPROVED CONNECTION, BETWEEN WATER MAIN PIPE AND STORM SEWER CL B AT STA. 12+89.89, 22.4' LT, WILL BE REQUIRED. COST OF THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR STORM SEWERS CLASS B TY 1 18".

PROJECT BENCHMARKS

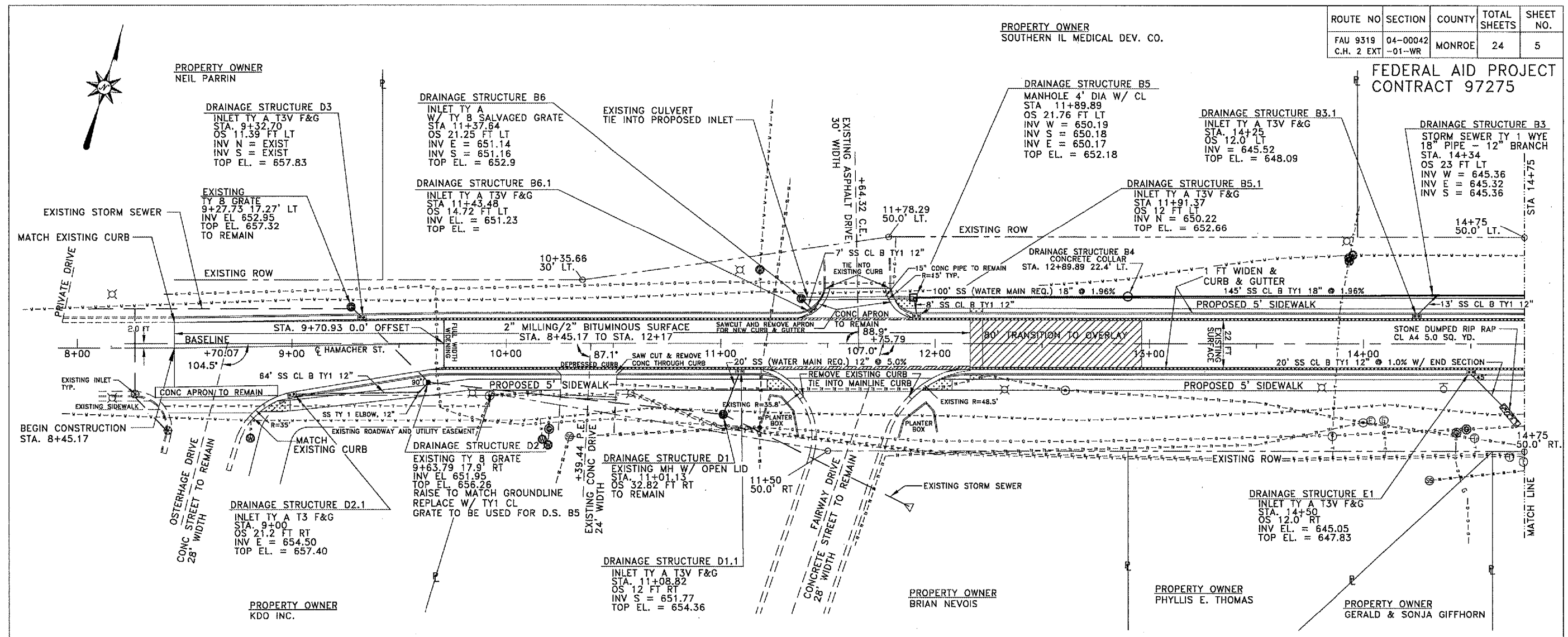
- STA. 10+00 @ ELEV. 656.22 IRON ROD
- STA. 12+79.91 70.98' RT. ELEV. 643.96 X IN CONCRETE
- STA. 18+86.39 60.27' RT. ELEV. 639.61 IRON ROD
- STA. 19+67.95 31.51' RT. ELEV. 643.66 BRASS DISK

SUMMARY OF QUANTITIES
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	5

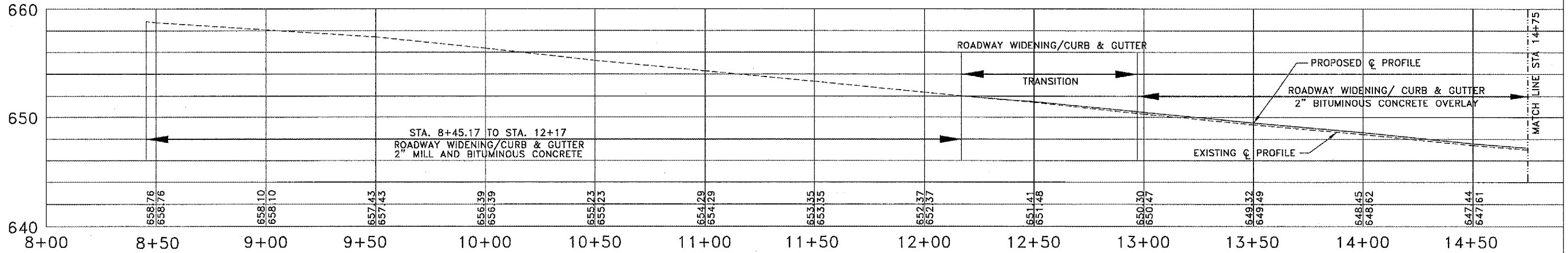
PROPERTY OWNER
SOUTHERN IL MEDICAL DEV. CO.

FEDERAL AID PROJECT
CONTRACT 97275



NOTE: TRANSITION WIDENING LEFT SIDE FROM 0' - STA. 8+45.17 TO 1' - STA. 9+70.93

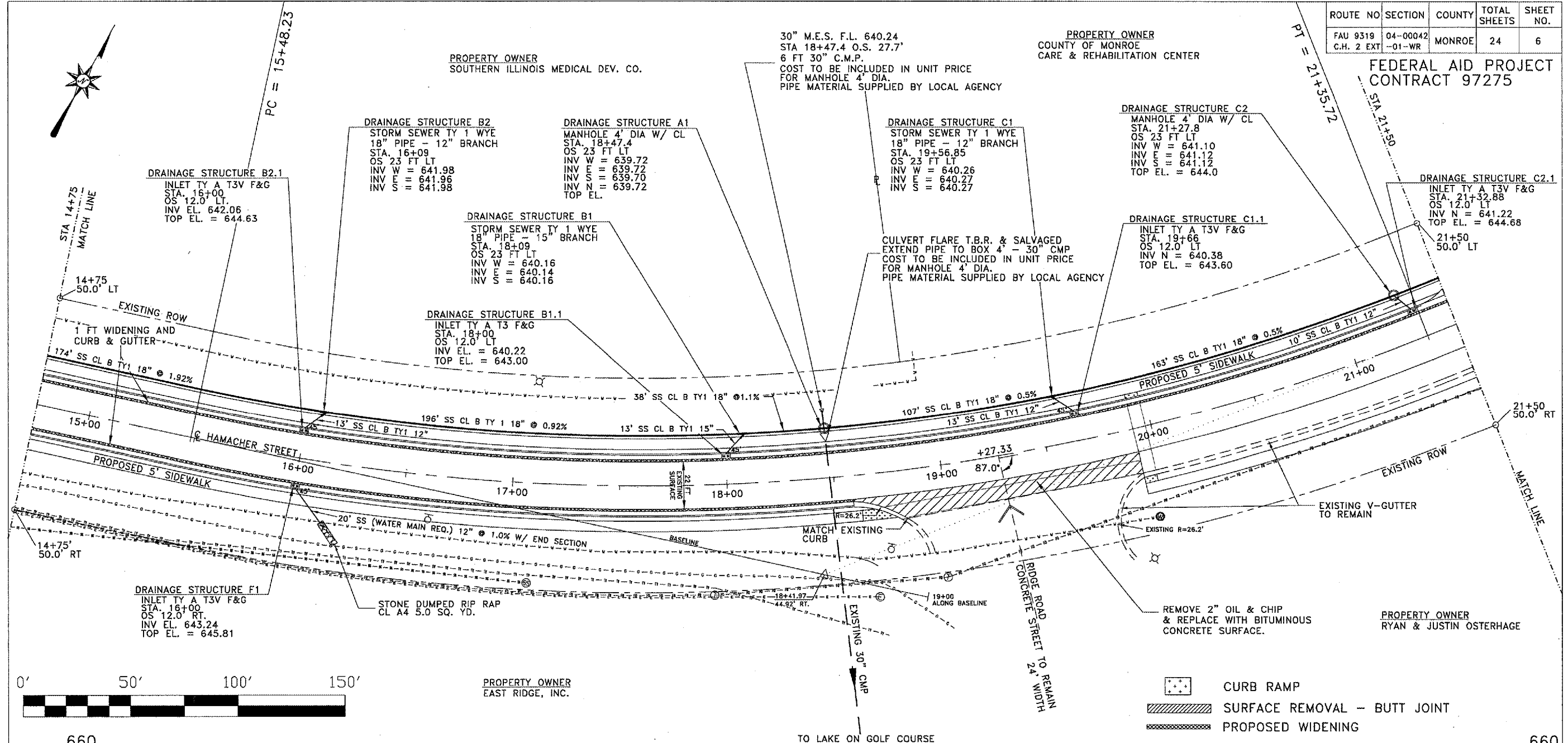
- CURB RAMP
- SURFACE REMOVAL - BUTT JOINT
- PROPOSED WIDENING



PLAN & PROFILE
STA 8+45.17 TO STA 14+75
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319	04-00042	MONROE	24	6
C.H. 2 EXT	-01-WR			

FEDERAL AID PROJECT
CONTRACT 97275



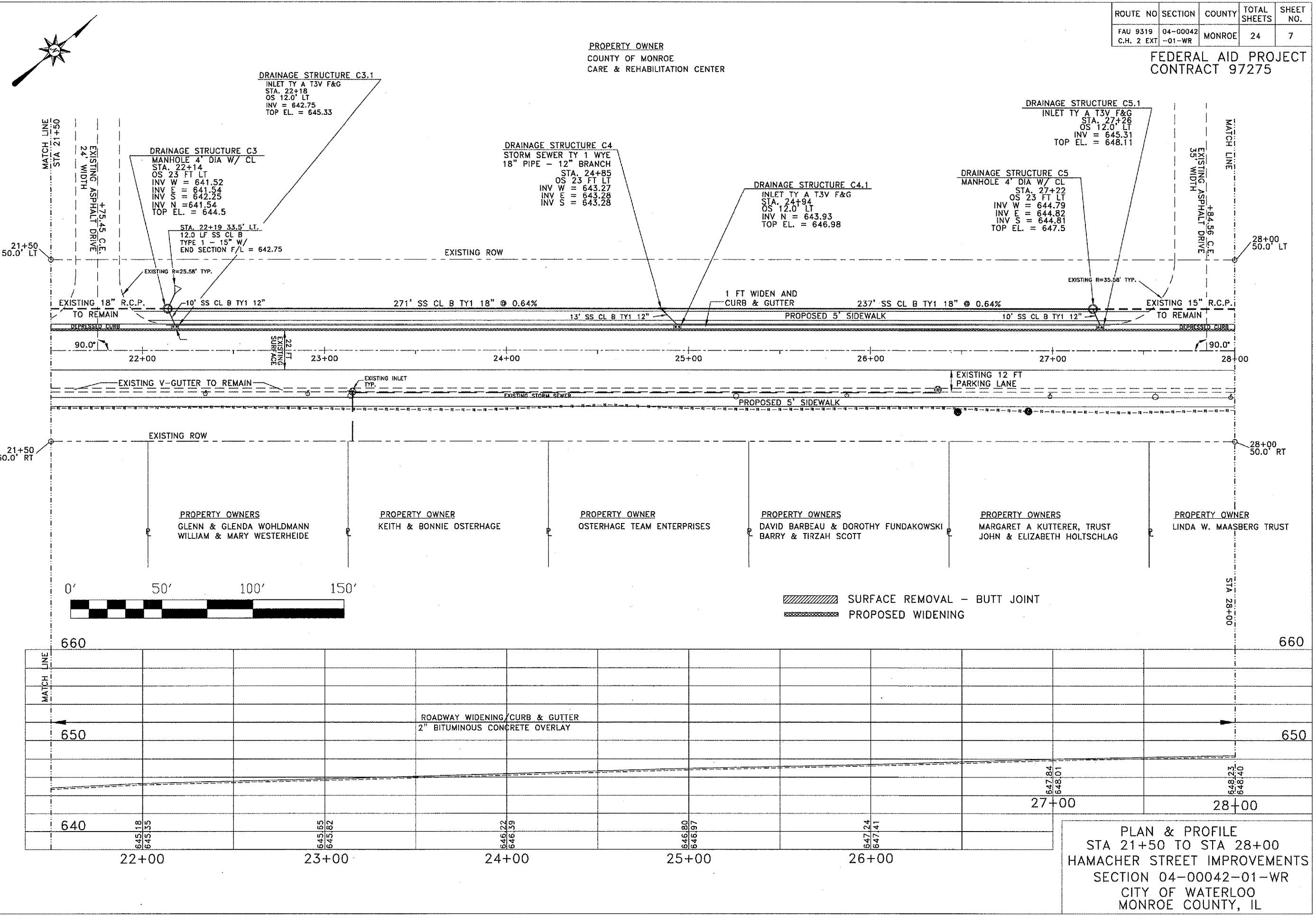
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15+00	646.62	646.79	645.66	645.83	644.89	645.06	644.26	644.43	643.81	643.98	643.68	643.85	643.41	643.58	643.52	643.69	643.64	643.81	643.84	644.11	644.21	644.38	644.35	644.52
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PLAN & PROFILE
STA 14+75 TO 21+50
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	7

FEDERAL AID PROJECT
CONTRACT 97275

PROPERTY OWNER
COUNTY OF MONROE
CARE & REHABILITATION CENTER



MATCH LINE
STA 21+50

21+50
50.0' LT

21+50
50.0' RT

MATCH LINE
STA 28+00

28+00
50.0' LT

28+00
50.0' RT



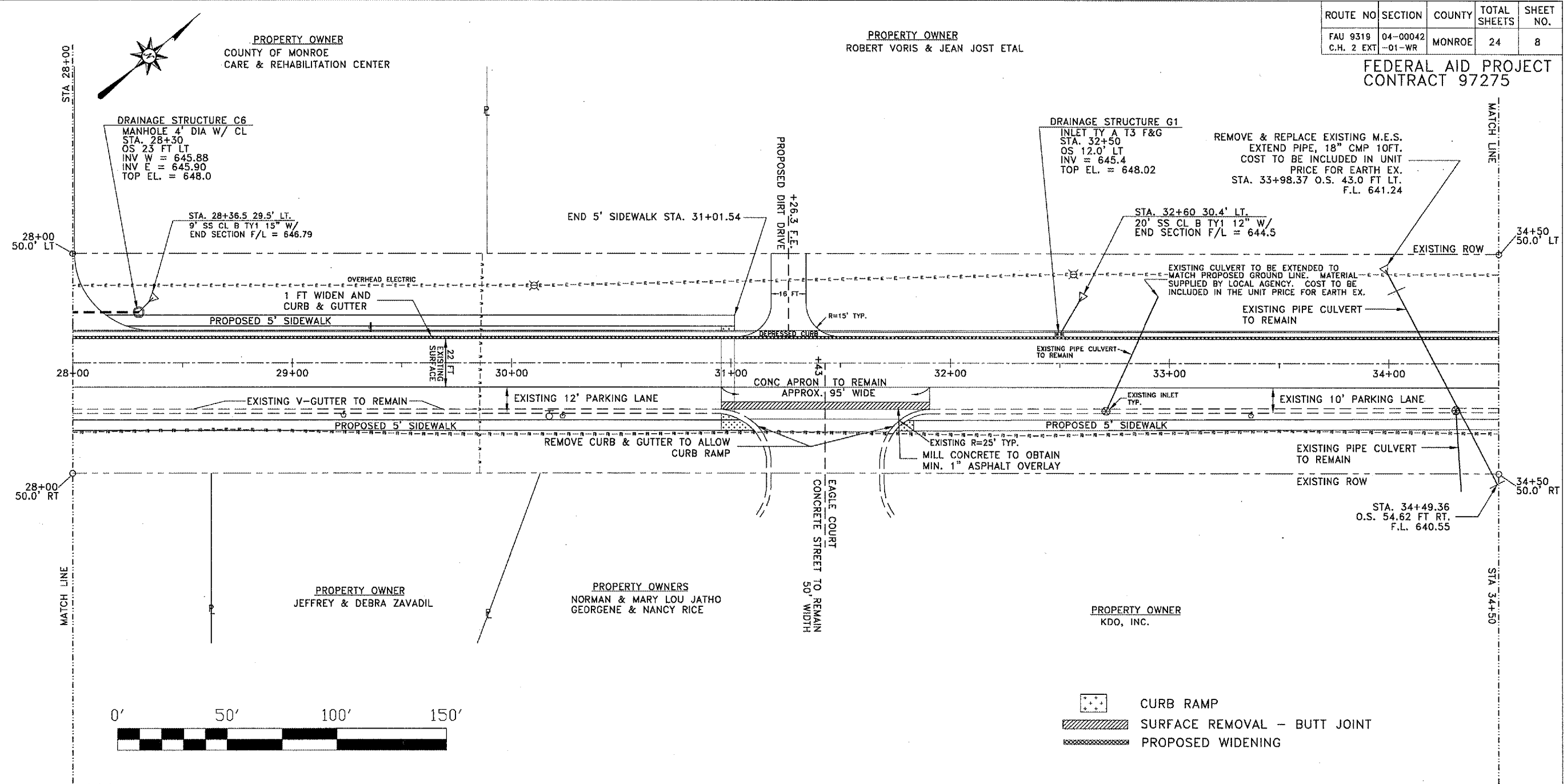
SURFACE REMOVAL - BUTT JOINT
 PROPOSED WIDENING

STATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION
22+00	645.18	645.35	645.65	645.82	646.22	646.39	646.80	646.97
23+00								
24+00								
25+00								
26+00							647.24	647.41
27+00							647.84	648.01
28+00							648.23	648.40

PLAN & PROFILE
STA 21+50 TO STA 28+00
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	8

FEDERAL AID PROJECT
CONTRACT 97275



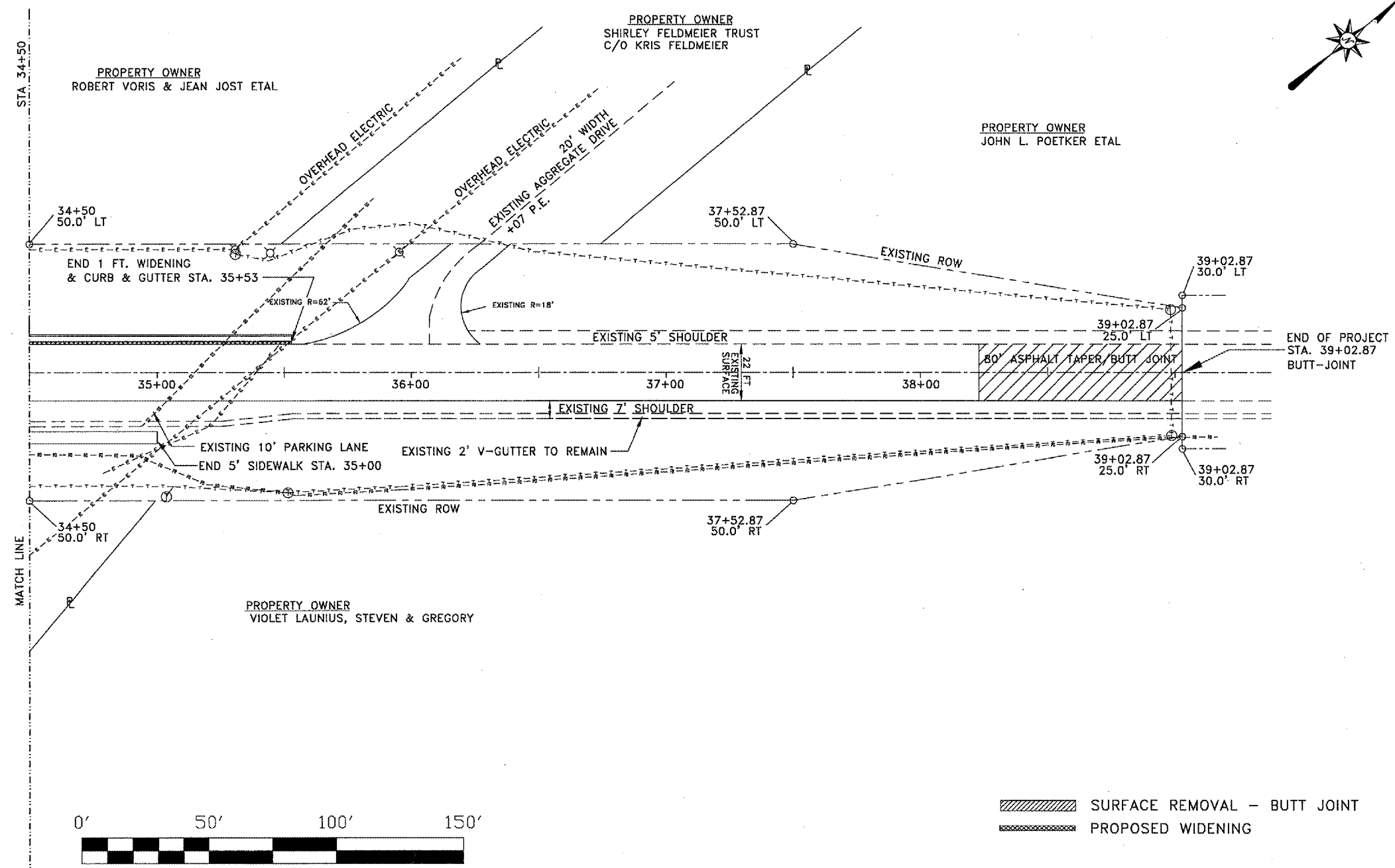
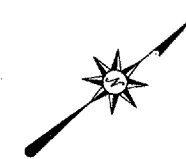
- CURB RAMP
- SURFACE REMOVAL - BUTT JOINT
- PROPOSED WIDENING

660								660							
ROADWAY WIDENING/CURB & GUTTER 2" BITUMINOUS CONCRETE OVERLAY															
650															
640															
34+00															
648.24 648.41		648.38 648.05		648.41 648.58		648.20 648.37		648.12 648.29		647.88 648.05		647.89 648.06		640	
28+00		29+00		30+00		30+50		31+00		32+00		33+00			

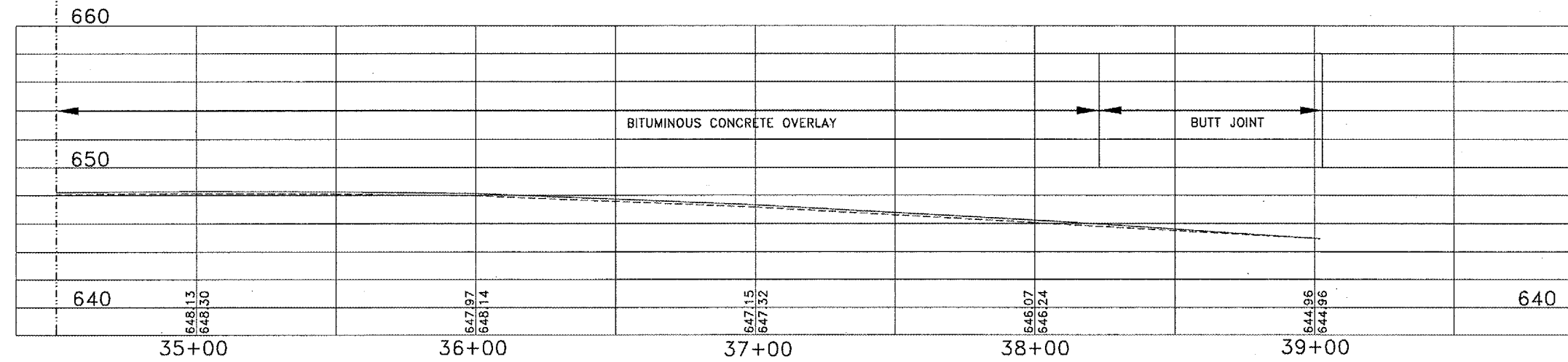
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STA 28+00 TO STA 34+50
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	9

FEDERAL AID PROJECT
CONTRACT 97275



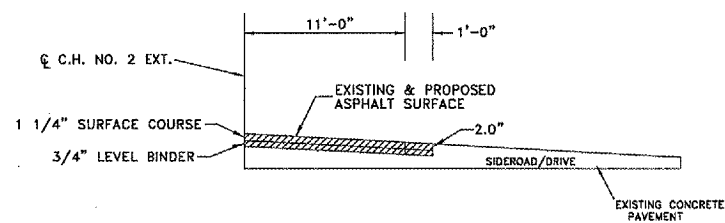
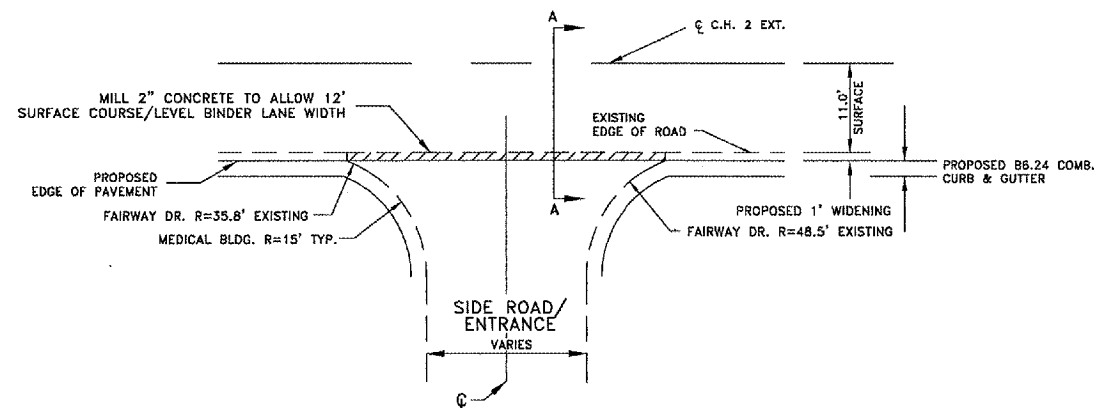
SURFACE REMOVAL - BUTT JOINT
 PROPOSED WIDENING



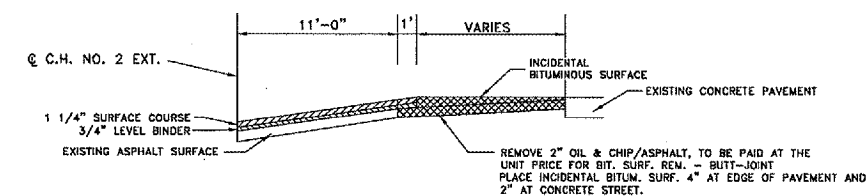
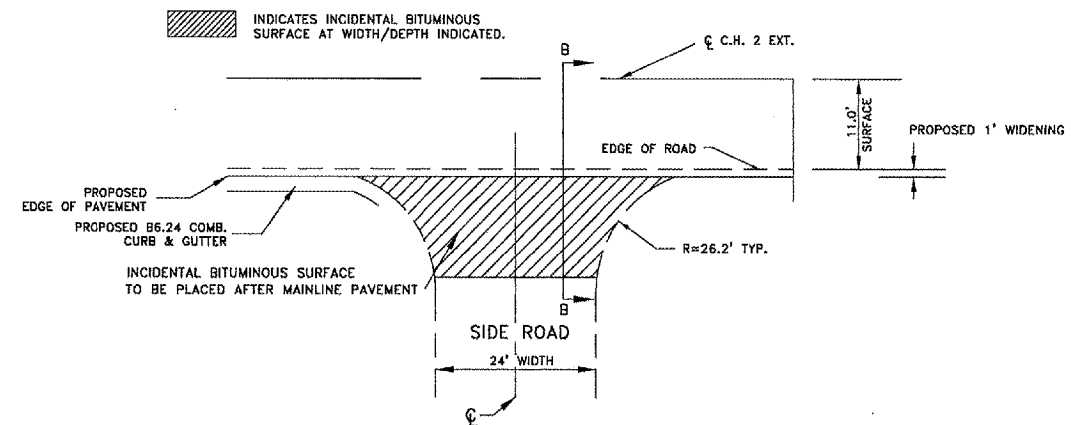
PLAN & PROFILE
 STA 34+50 TO STA 39+02.87
 HAMACHER STREET IMPROVEMENTS
 SECTION 04-00042-01-WR
 CITY OF WATERLOO
 MONROE COUNTY, IL

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	10

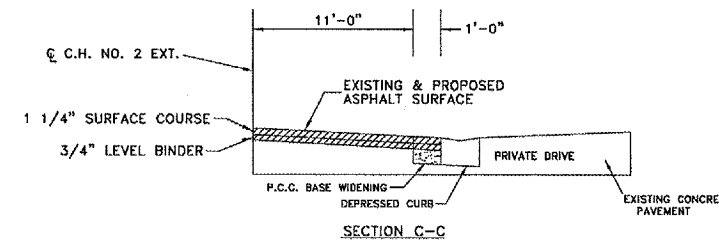
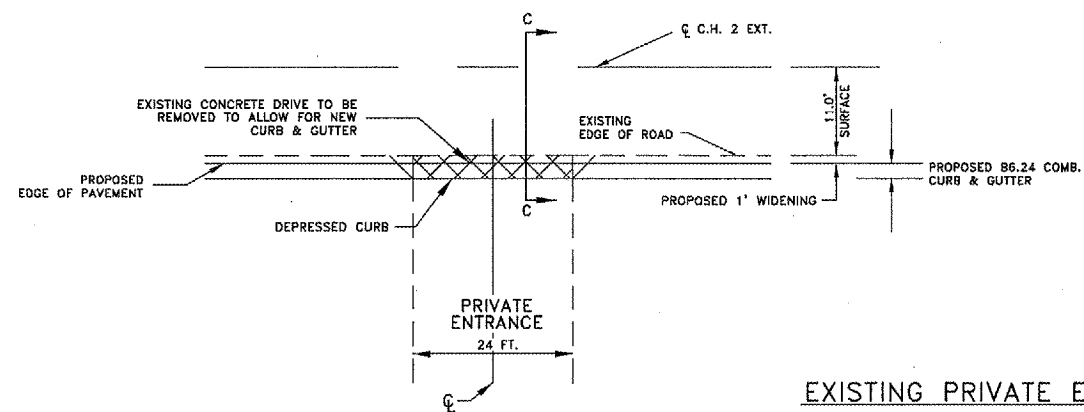
FEDERAL AID PROJECT
CONTRACT NO. 97275



EXISTING FAIRWAY DRIVE STA. 11+75.79 RT.
EXISTING MEDICAL BUILDING ENTRANCE STA. 11+64.32 LT.



EXISTING RIDGE ROAD STA. 19+27.33 RT.



EXISTING PRIVATE ENTRANCE STA. 10+39.44 RT.

ENTRANCE/SIDEROAD SCHEDULE

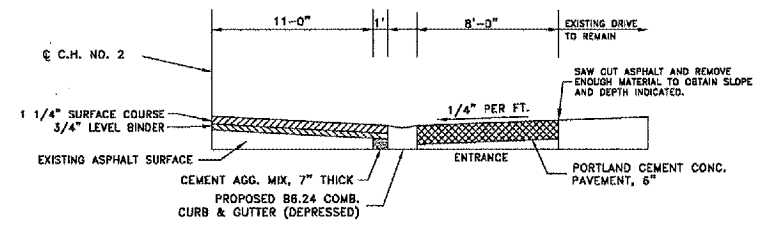
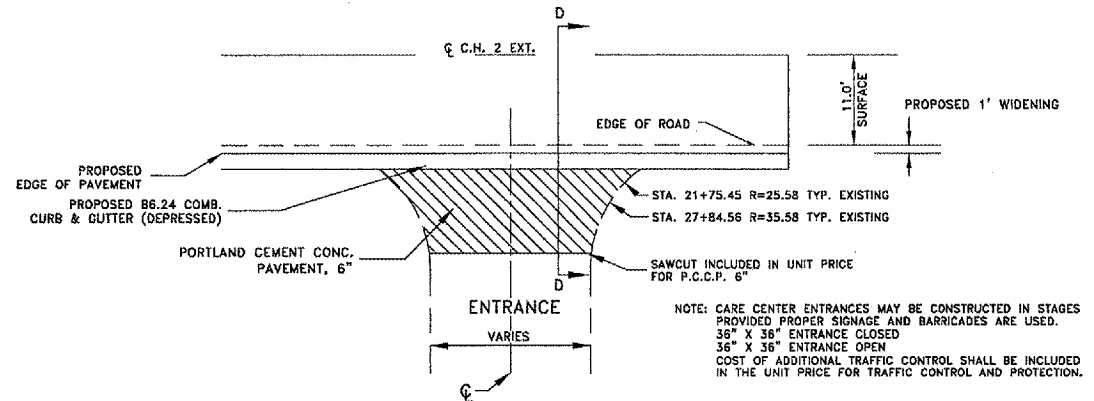
LOCATION STATION	SIDE LT/RT	TYPE OF ENTRANCE	EXISTING SURFACE	LENGTH FOOT	WIDTH FOOT	GRADE %	INC. BITUM. SURFACING TONS	BIT. MAT'L. (PRIME COAT) GALLON	AGGREGATE (PRIME COAT) TONS	B6.24 CURB & GUTTER FOOT	P.C.C.P. 6" SQ. YD.	CONC/ASPHALT BUTT JOINT SQ. YD.	PVMNT REM. SQ. YD.	COMMENTS
8+70.07	RIGHT	SIDE ROAD	ASPHALT	0.0	28.0	+2.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	OSTERHAGE DRIVE
10+39.44	RIGHT	PRIVATE	CONCRETE	3.58	24.0	+1.2	0.0	0.0	0.0	0.0	0.0	0.0	12.0	101 FAIRWAY DR.
11+64.32	LEFT	COMMERCIAL	CONCRETE	1.0	30.0	-0.1	0.0	0.0	0.0	36.0	0.0	6.0(CONC)	8.0	MEDICAL BUILDING
11+75.79	RIGHT	SIDE ROAD	CONCRETE	1.0	28.0	-0.7	0.0	0.0	0.0	53.0	0.0	11.0(CONC)	0.0	FAIRWAY DRIVE
19+27.33	RIGHT	SIDE ROAD	CONC/OIL & CHIP	9.4	24.0	+0.5	23.0	40.0	0.3	34.0	0.0	134.5(ASPH)	0.0	RIDGE ROAD
21+75.45	LEFT	COMMERCIAL	ASPHALT	11.58	24.0	+2.0	0.0	0.0	0.0	0.0	44.0	0.0	74.0	CARE CENTER
27+84.56	LEFT	COMMERCIAL	ASPHALT	11.58	35.0	+2.0	0.0	0.0	0.0	0.0	67.0	0.0	108.0	CARE CENTER
31+26.30	LEFT	FIELD	N/A	32.0	16.0	+3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	FIELD ENTRANCE
31+43	RIGHT	SIDE ROAD	CONCRETE	10.0	50.0	-0.9	0.0	0.0	0.0	0.0	0.0	35.0(CONC)	0.0	EAGLE COURT
36+07	LEFT	PRIVATE	OIL & CHIP	4.0	20.0	-3.6	2.0	11.0	0.1	0.0	0.0	0.0	0.0	701 FLORAVILLE RD.
TOTAL							25.0	51.0	0.4	139.0	111.0	52.0(CONC) 134.5(ASPH)	202.0	

SIDE ROAD/ENTRANCE DETAIL
SCHEDULE
HAMACHER STREET IMPROVEMENTS
SEC 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

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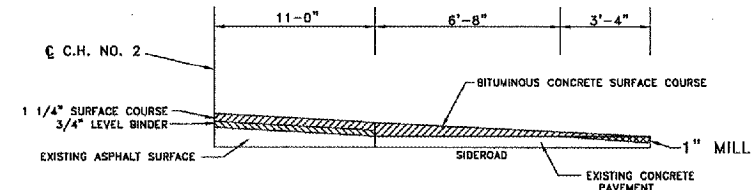
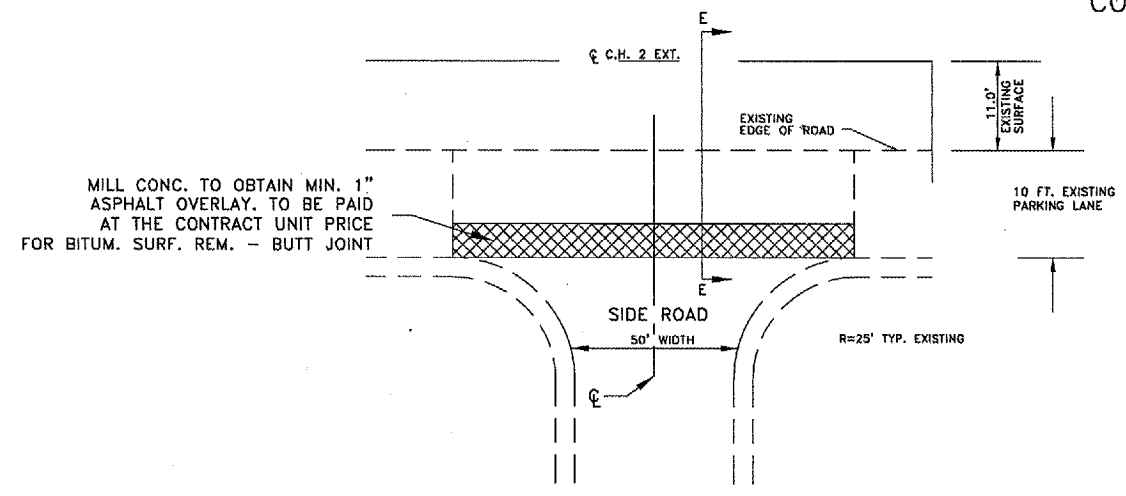
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	11

FEDERAL AID PROJECT
CONTRACT NO. 97275



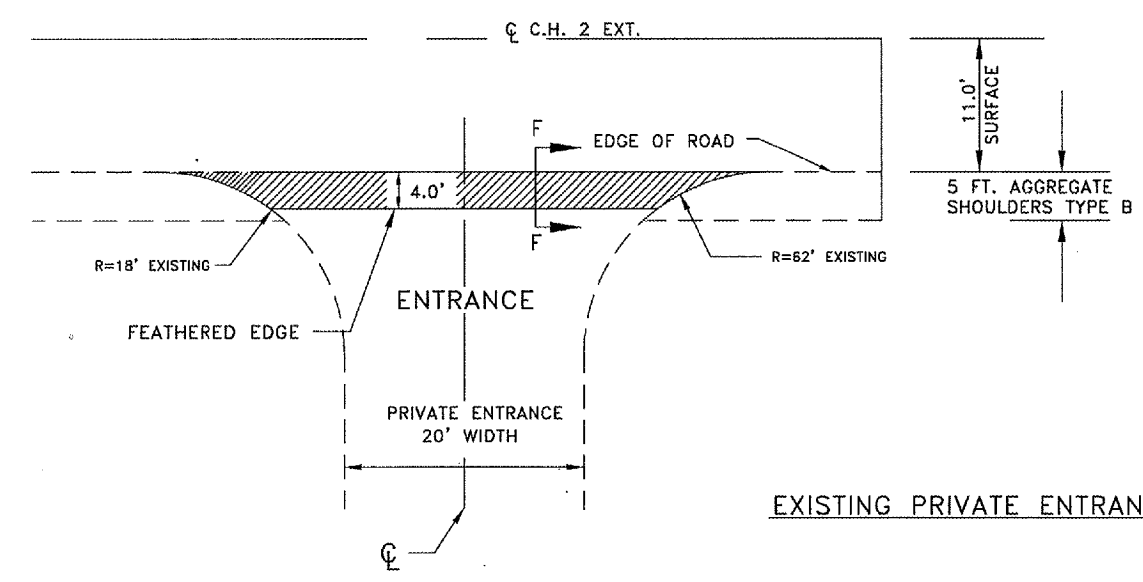
SECTION D-D

EXISTING CARE CENTER ENTRANCE STA. 21+75.45 24' WIDE
EXISTING CARE CENTER ENTRANCE STA. 27+84.56 35' WIDE

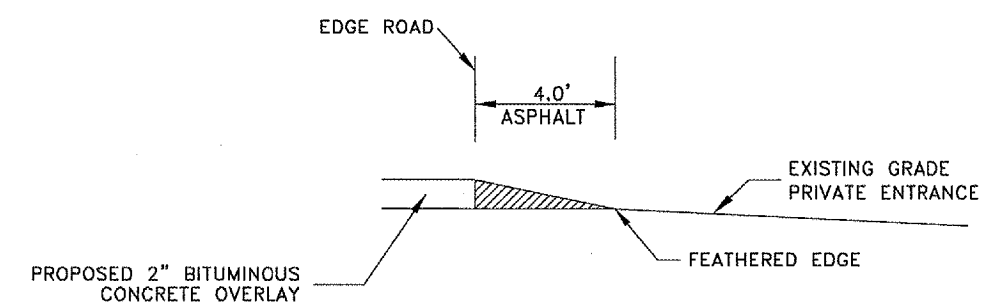


SECTION E-E

EXISTING EAGLE COURT STA. 31+43 RT.



EXISTING PRIVATE ENTRANCE STA. 36+07 20' WIDE



SECTION F-F

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SIDE ROAD/ENTRANCE DETAILS
HAMACHER STREET IMPROVEMENTS
SEC 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	12

FEDERAL AID PROJECT
CONTRACT NO. 97275

PAVEMENT MARKINGS

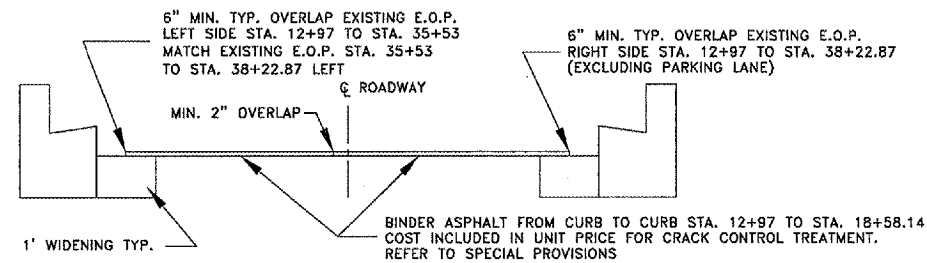
STATION	PAINT				THERMO
	SKIP-DASH 10' STRIPE 30' DASH YELLOW 4" (FT)	SOLID		SOLID WHITE 6" (FT)	
		YELLOW 4" (FT)	WHITE 4" (FT)		
CENTERLINE	NO PASSING ZONE LT RT	EDGELINES	CROSSWALKS		
8+45.17 TO 9+00	14	---	---	55	98
9+00 TO 10+65	41	---	---	330	---
10+65 TO 11+20	14	---	---	110	---
11+20 TO 12+17	24	---	---	97	126
12+17 TO 17+57	135	---	---	1080	24
17+57 TO 18+58	25	---	---	202	---
18+58 TO 19+92	34	---	---	134	238
19+92 TO 21+52	40	---	---	320	33
21+52 TO 28+43	173	---	---	1382	---
28+43 TO 30+95	63	---	---	504	---
30+95 TO 31+91	24	---	---	95	160
31+91 TO 38+35	161	---	---	1288	---
38+35 TO 39+02.87	---	68	68	136	---
SUBTOTALS	748	68	68	5734	679
TOTALS		6618			679

DRAINAGE STRUCTURES

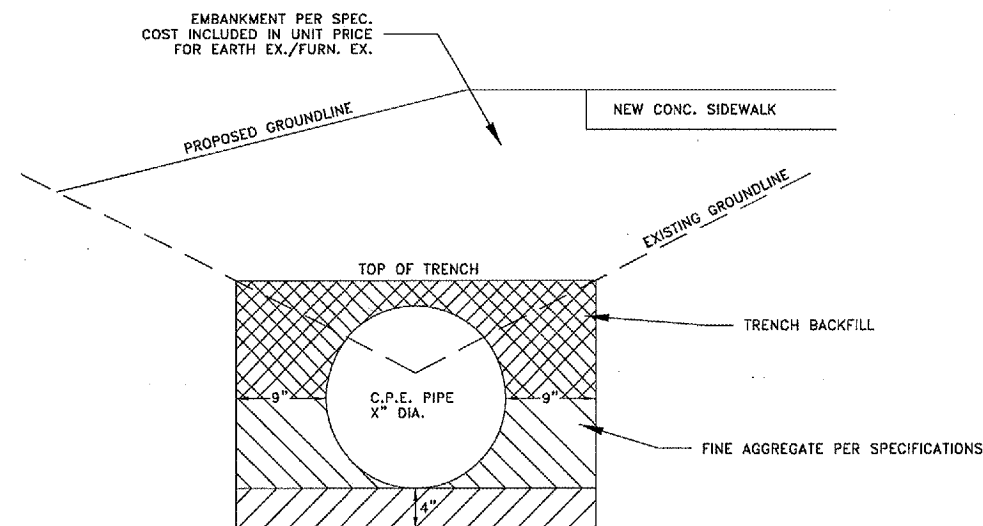
STRUCTURE	STATION	OFFSET	COMMENTS
A1	18+47.4	23.0' LT.	MANHOLE 4' DIA W/ FRAME & CLOSED LID
B1	18+09	23.0' LT.	TYPE 1 WYE 18" PIPE - 15" BRANCH
B1.1	18+00	12.0' LT.	INLET TY A W/ TY 3 FRAME & GRATE
B2	16+09	23.0' LT.	TYPE 1 WYE 18" PIPE - 12" BRANCH
B2.1	16+00	12.0' LT.	INLET TY A W/ TY 3V FRAME & GRATE
B3	14+34	23.0' LT.	TYPE 1 WYE 18" PIPE - 12" BRANCH
B3.1	14+25	12.0' LT.	INLET TY A W/ TY 3V FRAME & GRATE
B4	12+89.89	22.4' LT.	CONCRETE COLLAR
B5	11+89.89	21.76' LT.	MANHOLE 4' DIA W/ FRAME & CLOSED LID
B5.1	11+91.37	12.0' LT.	INLET TY A W/ TY 3V FRAME & GRATE
B6	11+37.64	21.25' LT.	INLET TY A W/ TY 8 GRATE
B6.1	11+43.48	14.72' LT.	INLET TY A W/ TY 3V FRAME & GRATE
C1	19+56.85	23.0' LT.	TYPE 1 WYE 18" PIPE - 12" BRANCH
C1.1	19+66	12.0' LT.	INLET TY A W/ TY 3V FRAME & GRATE
C2	21+27.8	23.0' LT.	MANHOLE 4' DIA W/ FRAME & CLOSED LID
C2.1	21+32.88	12.0' LT.	INLET TY A W/ TY 3V FRAME & GRATE
C3	22+14	23.0' LT.	MANHOLE 4' DIA W/ FRAME & CLOSED LID
C3.1	22+18	12.0' LT.	INLET TY A W/ TY 3V FRAME & GRATE
C4	24+85	23.0' LT.	TYPE 1 WYE 18" PIPE - 12" BRANCH
C4.1	24+94	12.0' LT.	INLET TY A W/ TY 3V FRAME & GRATE
C5	27+22	23.0' LT.	MANHOLE 4' DIA W/ FRAME & CLOSED LID
C5.1	27+26	12.0' LT.	INLET TY A W/ TY 3V FRAME & GRATE
C6	28+30	23.0' LT.	MANHOLE 4' DIA W/ FRAME & CLOSED LID
D1	11+01.13	32.82' RT.	EXISTING MANHOLE
D1.1	11+08.82	12.0' RT.	INLET TY A W/ TY 3V FRAME & GRATE
D2	9+63.79	17.9' RT.	EXISTING MANHOLE W/ FRAME & CLOSED LID
D2.1	9+00	21.2' RT.	INLET TY A W/ TY 3 FRAME & GRATE
D3	9+32.70	11.39' LT.	INLET TY A W/ TY 3V FRAME & GRATE
E1	14+50	12.0' RT.	INLET TY A W/ TY 3V FRAME & GRATE
F1	16+00	12.0' RT.	INLET TY A W/ TY 3V FRAME & GRATE
G1	32+50	12.0' LT.	INLET TY A W/ TY 3 FRAME & GRATE

STORM SEWER

PIPE	SIZE				COMMENTS
	18" CL B	(WMR)	15" CL B	12" (WMR)	
D.S. A1 - B1	38'				STORM SEWER CL B TY 1
D.S. B1 - B1.1			13'		STORM SEWER CL B TY 1
D.S. B1 - B2	196'				STORM SEWER CL B TY 1
D.S. B2 - B2.1			13'		STORM SEWER CL B TY 1
D.S. B2 - B3	174'				STORM SEWER CL B TY 1
D.S. B3 - B3.1			13'		STORM SEWER CL B TY 1
D.S. B3 - B4	145'				STORM SEWER CL B TY 1
D.S. B4 - B5		100'			STORM SEWER (WATER MAIN REQ.)
D.S. B5 - B5.1			8'		STORM SEWER CL B TY 1
D.S. B6 - B6.1			7'		STORM SEWER CL B TY 1
D.S. A1 - C1	107'				STORM SEWER CL B TY 1
D.S. C1 - C1.1			13'		STORM SEWER CL B TY 1
D.S. C1 - C2	163'				STORM SEWER CL B TY 1
D.S. C2 - C2.1			10'		STORM SEWER CL B TY 1
D.S. C3 - M.E.S.			12'		STORM SEWER CL B TY 1
D.S. C3 - C3.1			10'		STORM SEWER CL B TY 1
D.S. C3 - C4	271'				STORM SEWER CL B TY 1
D.S. C4 - C4.1			13'		STORM SEWER CL B TY 1
D.S. C4 - C5	237'				STORM SEWER CL B TY 1
D.S. C5 - C5.1			10'		STORM SEWER CL B TY 1
D.S. C6 - M.E.S.			9'		STORM SEWER CL B TY 1
D.S. D1 - D1.1				20'	STORM SEWER (WATER MAIN REQ)
D.S. D2 - D2.1				20'	STORM SEWER CL B TY 1
D.S. E1 - END SEC				20'	STORM SEWER CL B TY 1
D.S. F1 - END SEC				20'	STORM SEWER (WATER MAIN REQ)
D.S. G1 - END SEC				20'	STORM SEWER CL B TY 1
TOTALS	1331'	100'	34'	201'	40'



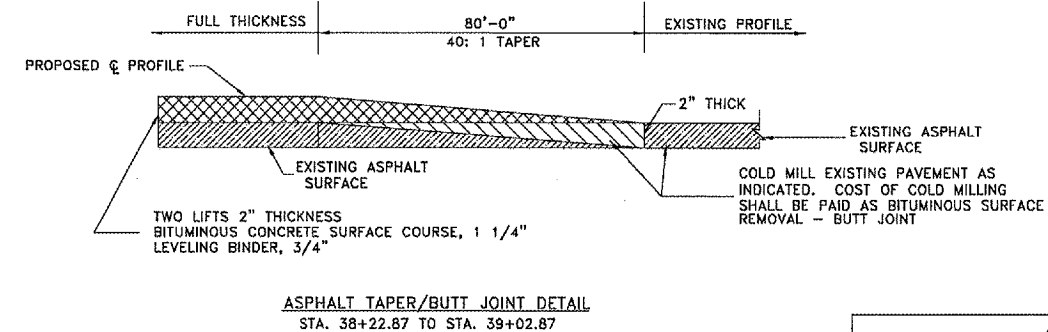
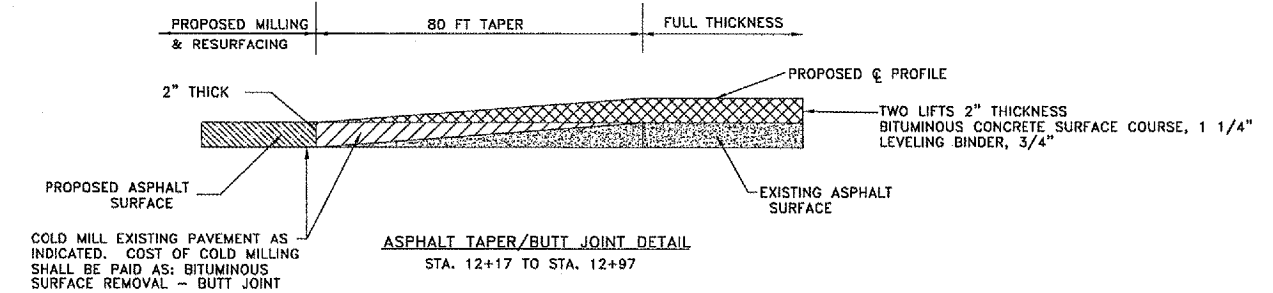
AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A



STORM SEWER CONSTRUCTION

NOTE: PIPE CULVERT STA. 9+00 TO STA. 9+63.79 RIGHT SHALL BE BACKFILLED WITH FINE AGG. PER SPEC. ENTIRE TRENCH LENGTH, WIDTH AND DEPTH. COST TO BE INCLUDED IN THE UNIT PRICE FOR STORM SEWERS/TRENCH BACKFILL.

NOTE: PIPE CULVERTS DRAINING FROM CURB INLETS AND EXTEND UNDER SIDEWALK SHALL BE BACKFILLED WITH FINE AGG. PER SPEC THE ENTIRE TRENCH LENGTH, WIDTH AND DEPTH. COST TO BE INCLUDED IN THE UNIT PRICE FOR STORM SEWERS/TRENCH BACKFILL.

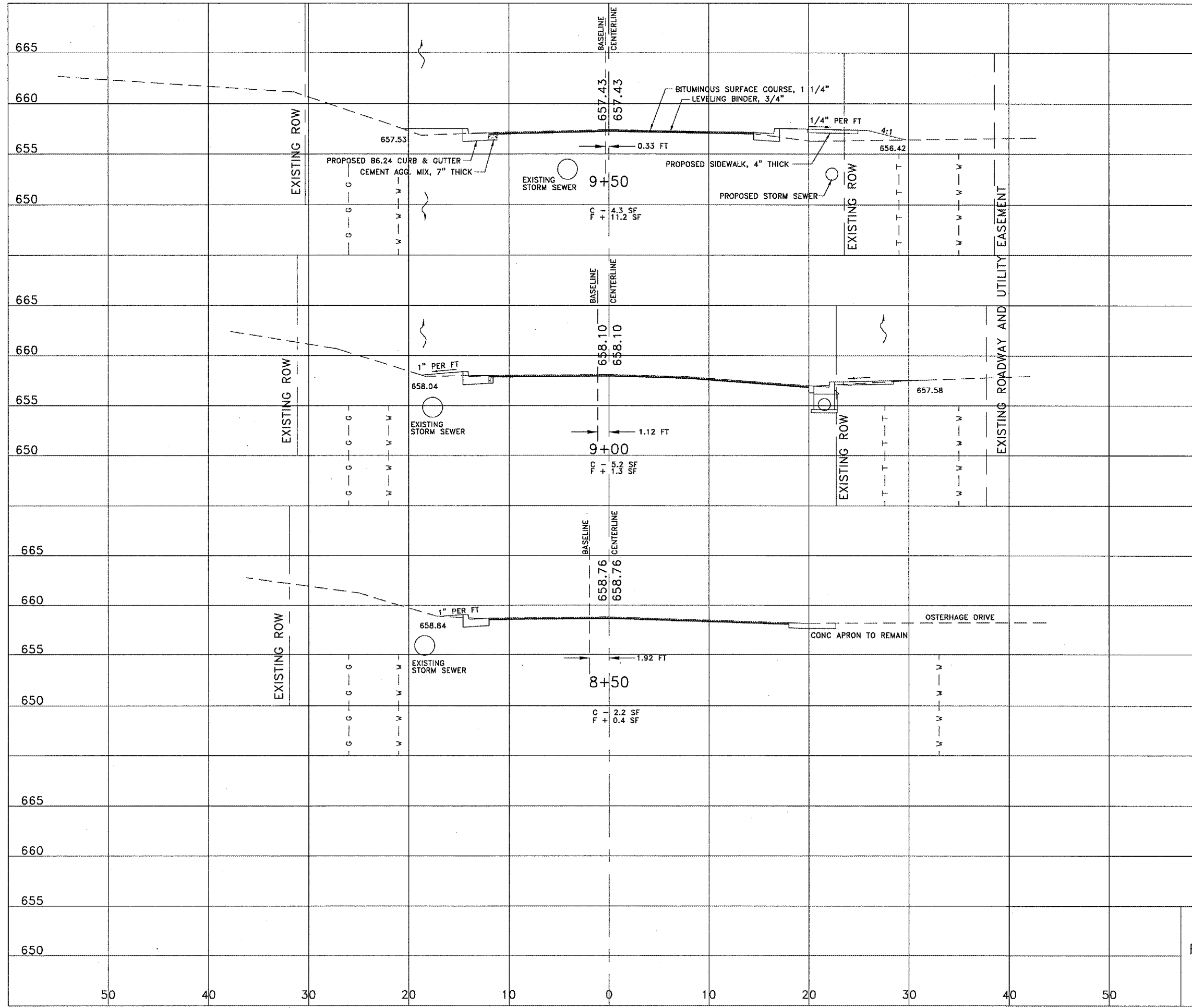


STRIPING/BUTT-JOINTS/
PIPE SCHEDULE
HAMACHER STREET IMPROVEMENTS
SEC 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

DRAWING FILE: S:\HAMACHER IMPROV\TRICAL.DWG

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	13

FEDERAL AID PROJECT
CONTRACT 97275

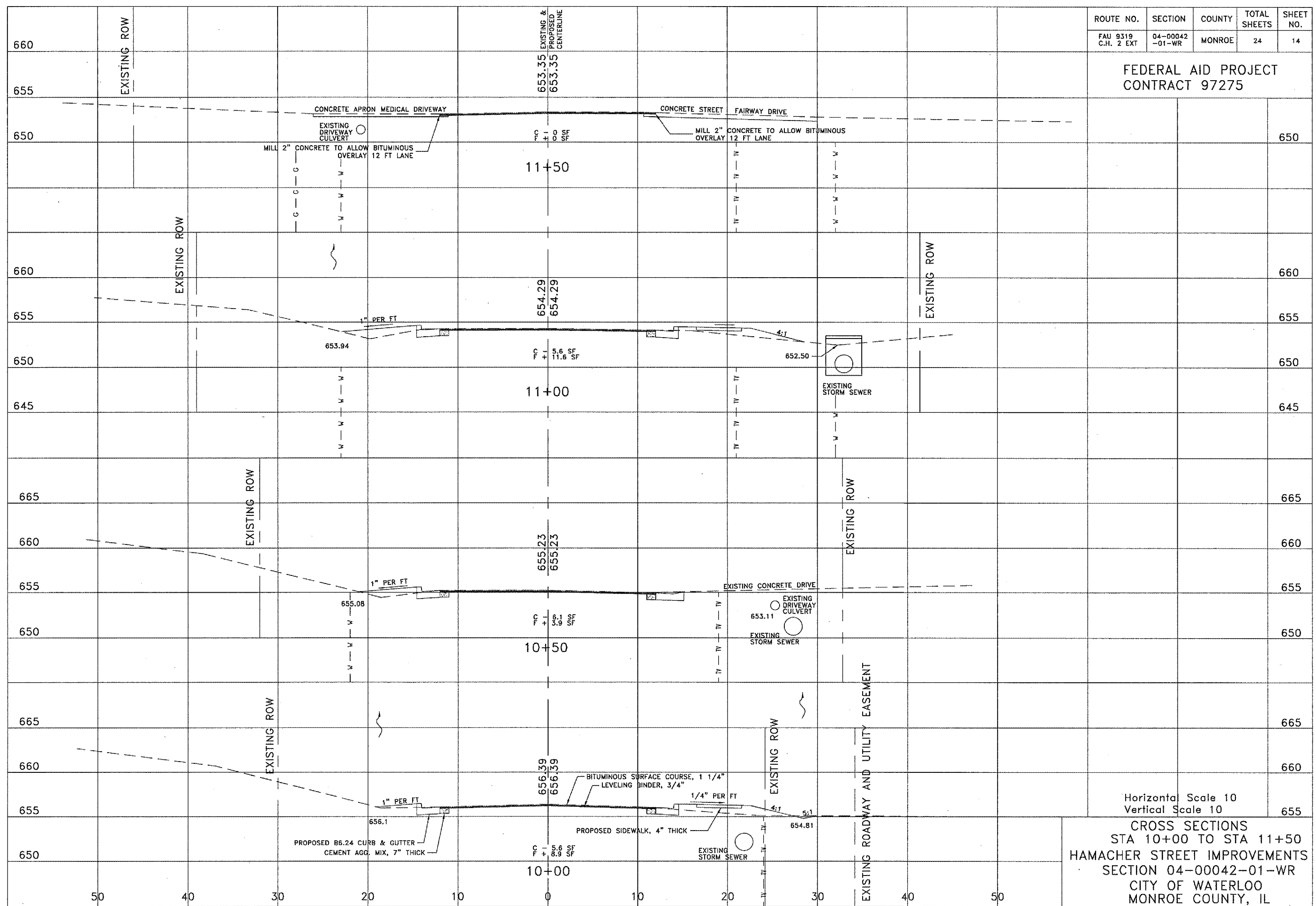


Horizontal Scale 10
Vertical Scale 10

CROSS SECTIONS
EXISTING TO STA 9+50
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	14

FEDERAL AID PROJECT
CONTRACT 97275

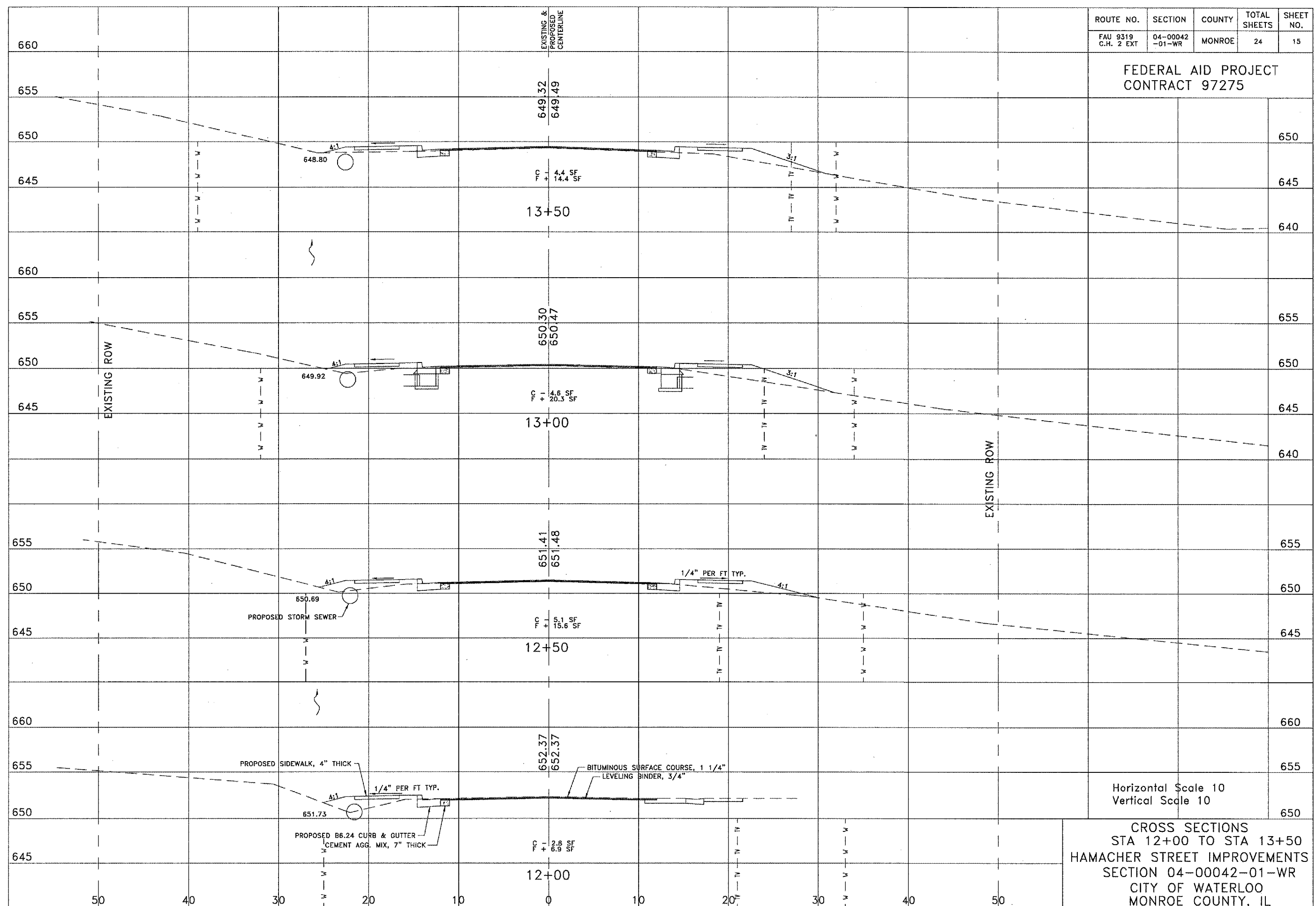


Horizontal Scale 10
Vertical Scale 10

CROSS SECTIONS
STA 10+00 TO STA 11+50
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	15

FEDERAL AID PROJECT
CONTRACT 97275

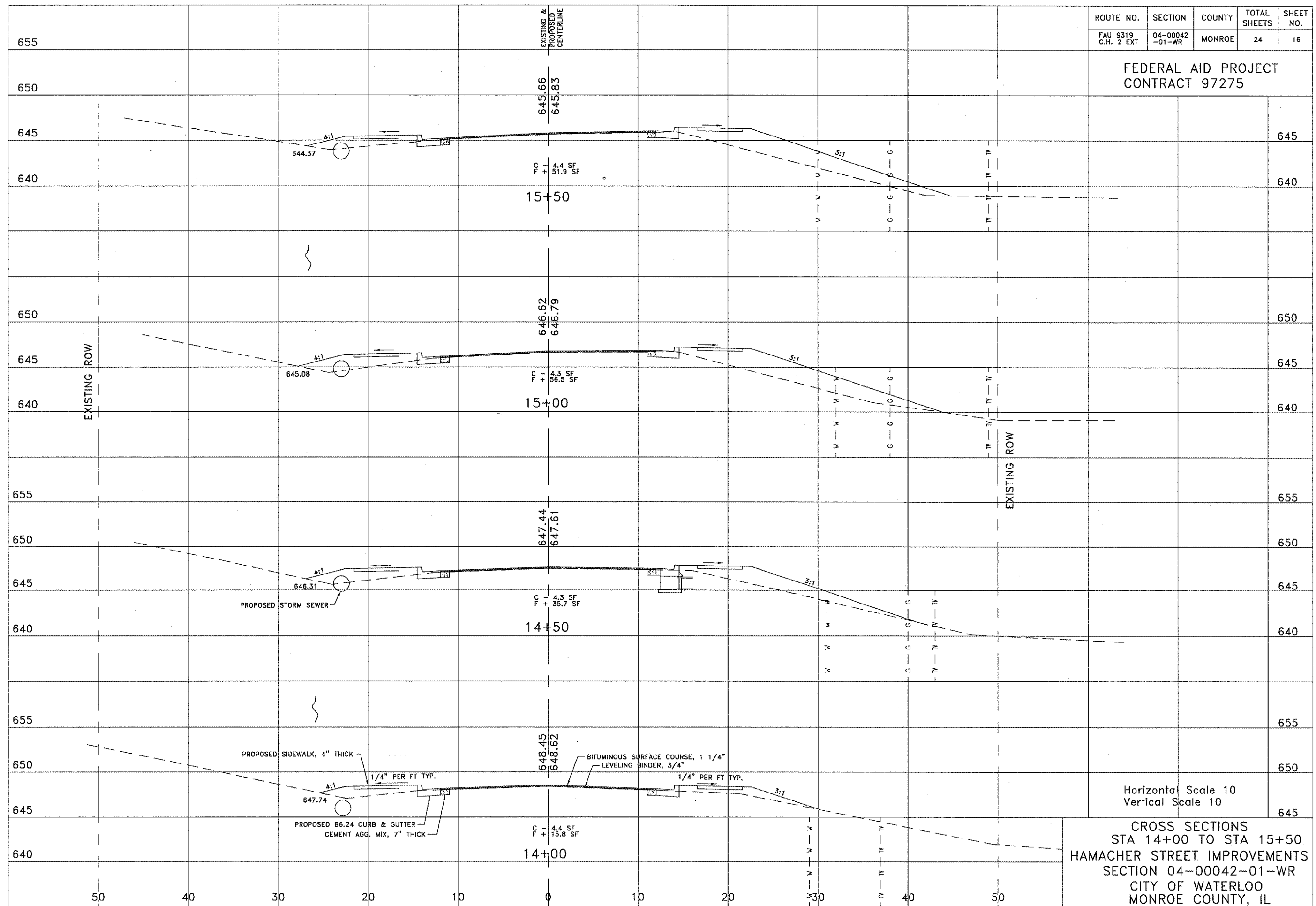


Horizontal Scale 10
Vertical Scale 10

CROSS SECTIONS
STA 12+00 TO STA 13+50
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	16

FEDERAL AID PROJECT
CONTRACT 97275

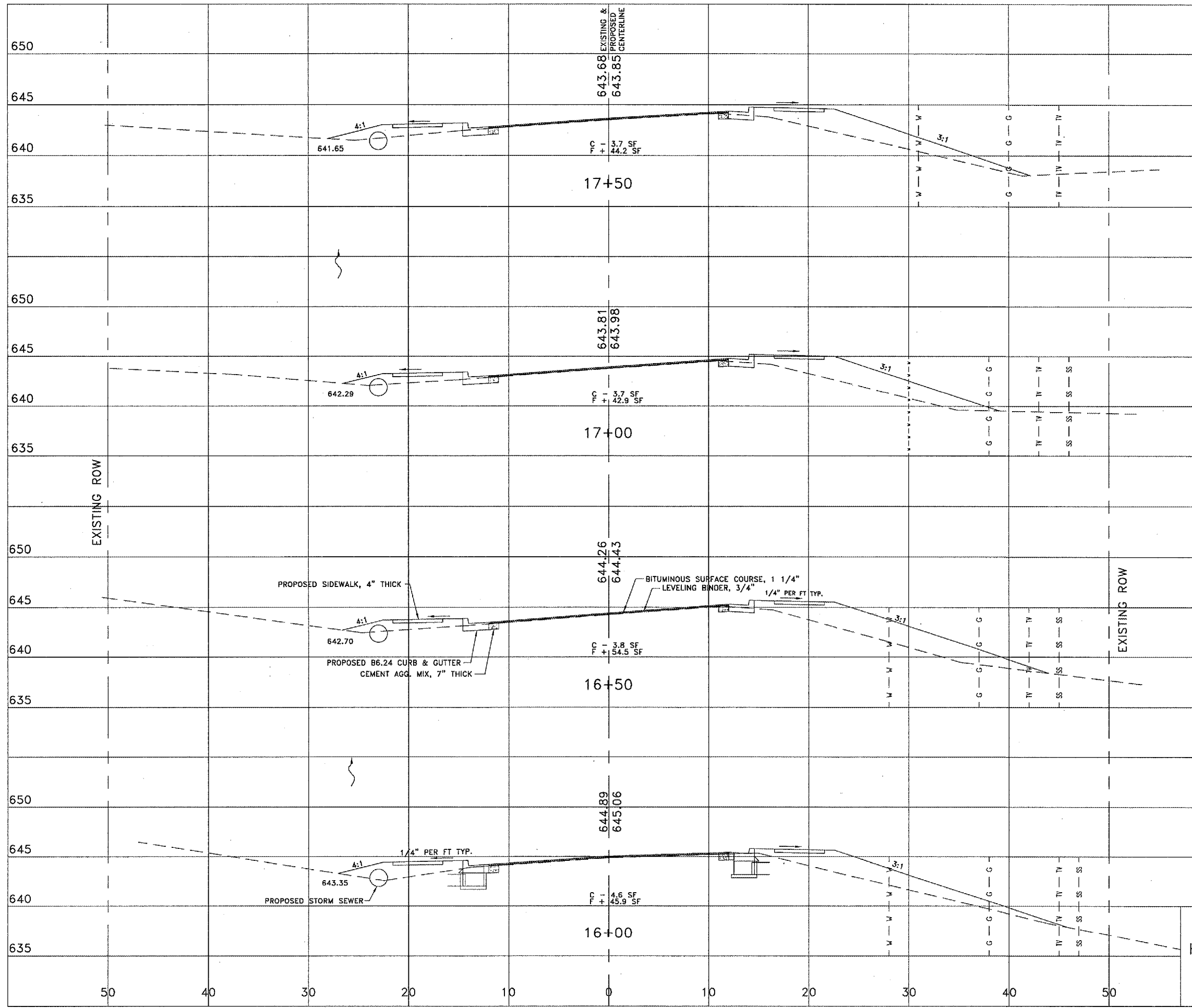


Horizontal Scale 10
Vertical Scale 10

CROSS SECTIONS
STA 14+00 TO STA 15+50
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	17

FEDERAL AID PROJECT
CONTRACT 97275

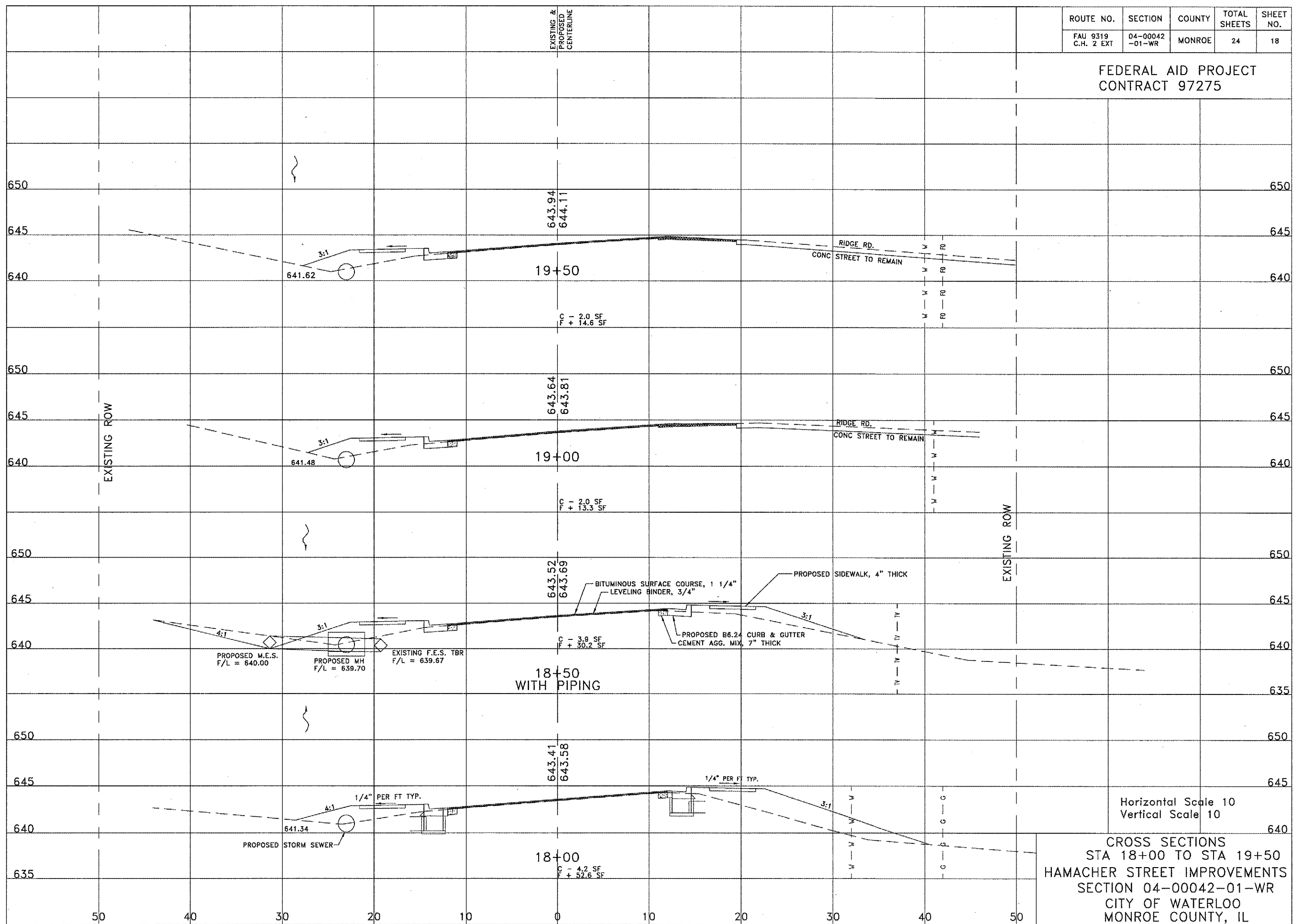


Horizontal Scale 10
Vertical Scale 10

CROSS SECTIONS
STA 16+00 TO STA 17+50
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	18

FEDERAL AID PROJECT
CONTRACT 97275

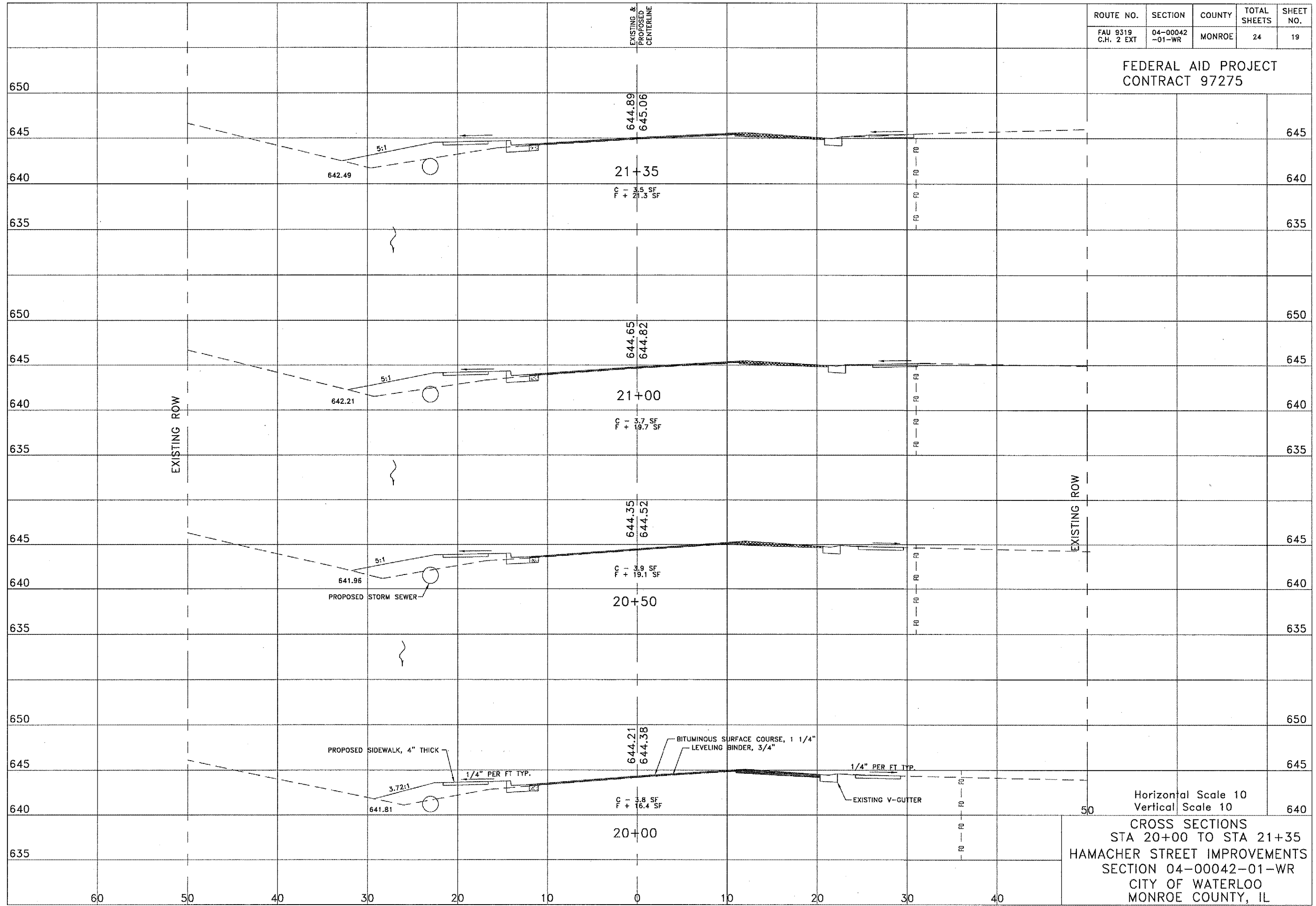


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Vertical Scale 10

CROSS SECTIONS
STA 18+00 TO STA 19+50
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	19

FEDERAL AID PROJECT
CONTRACT 97275

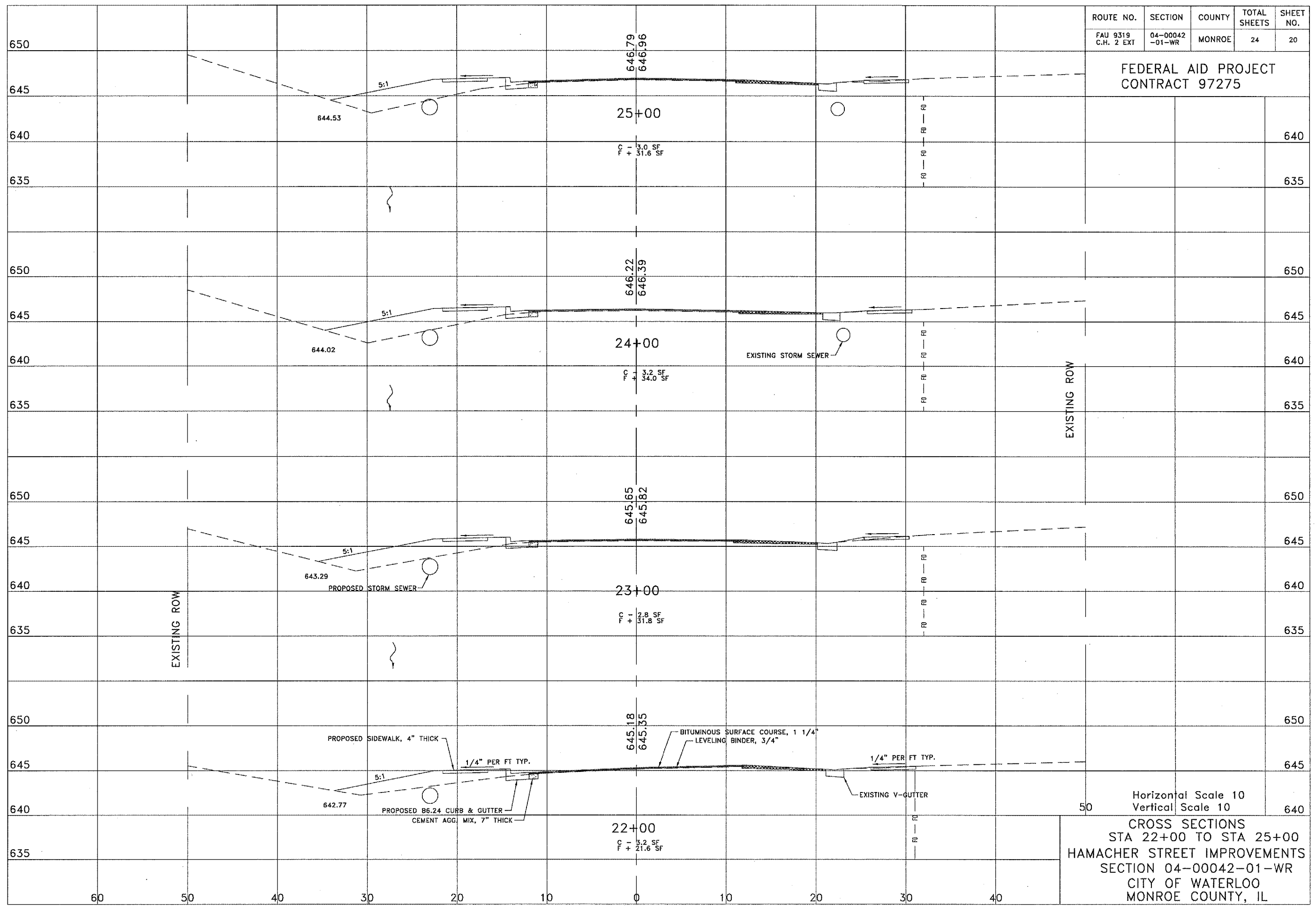


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CROSS SECTIONS
STA 20+00 TO STA 21+35
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	20

FEDERAL AID PROJECT
CONTRACT 97275

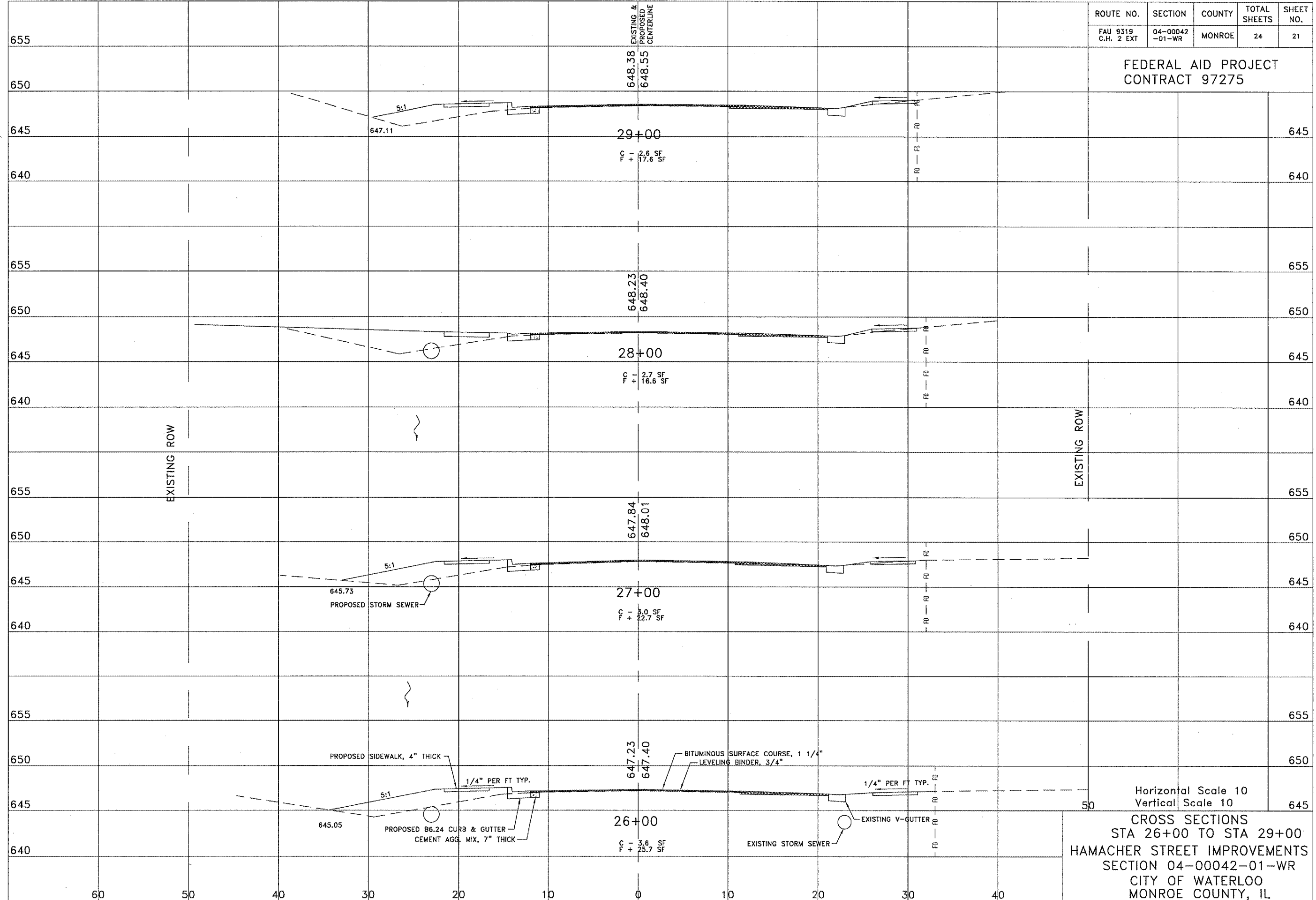


Horizontal Scale 10
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CROSS SECTIONS
STA 22+00 TO STA 25+00
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	21

FEDERAL AID PROJECT
CONTRACT 97275

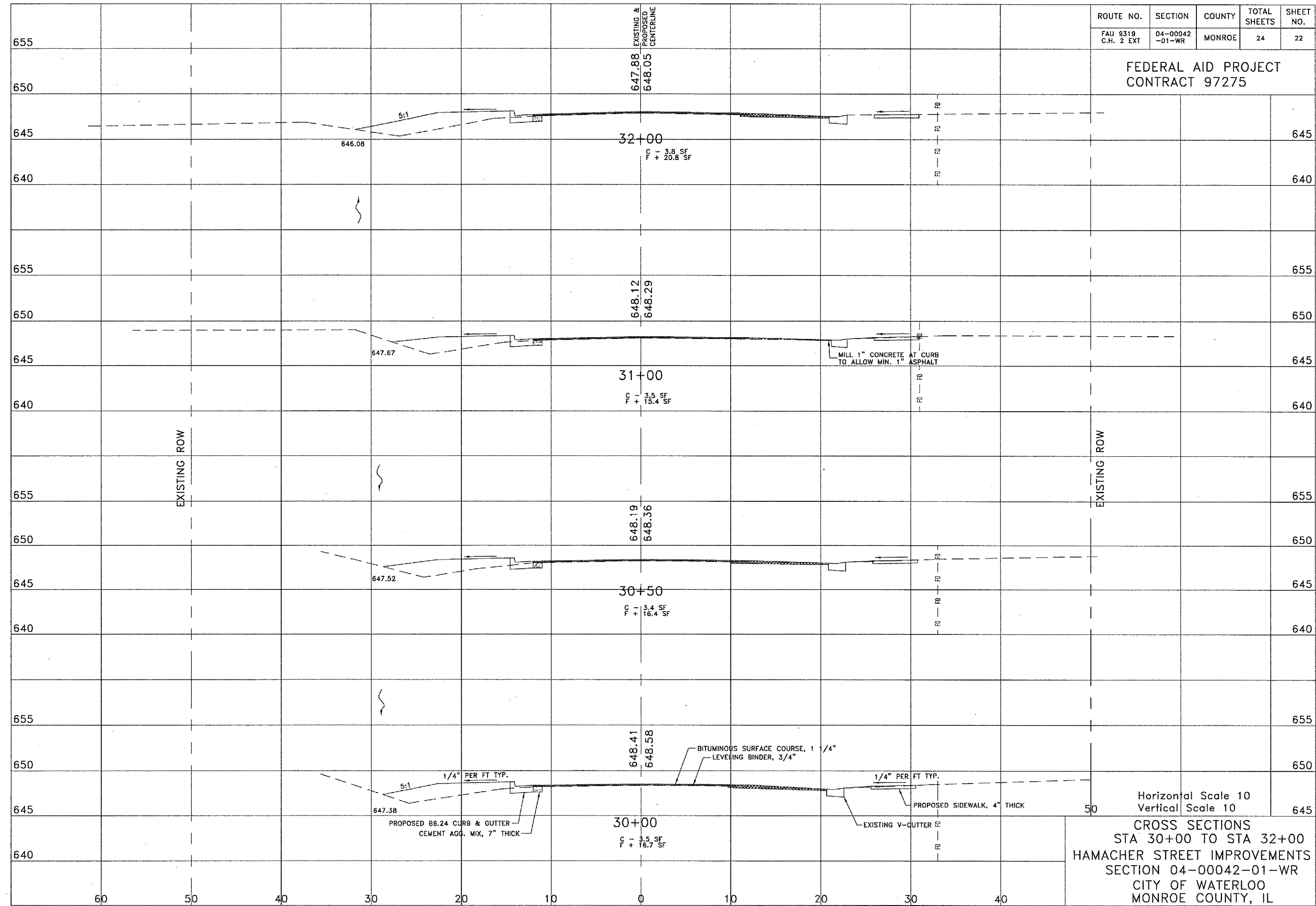


Horizontal Scale 10
Vertical Scale 10

CROSS SECTIONS
STA 26+00 TO STA 29+00
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL

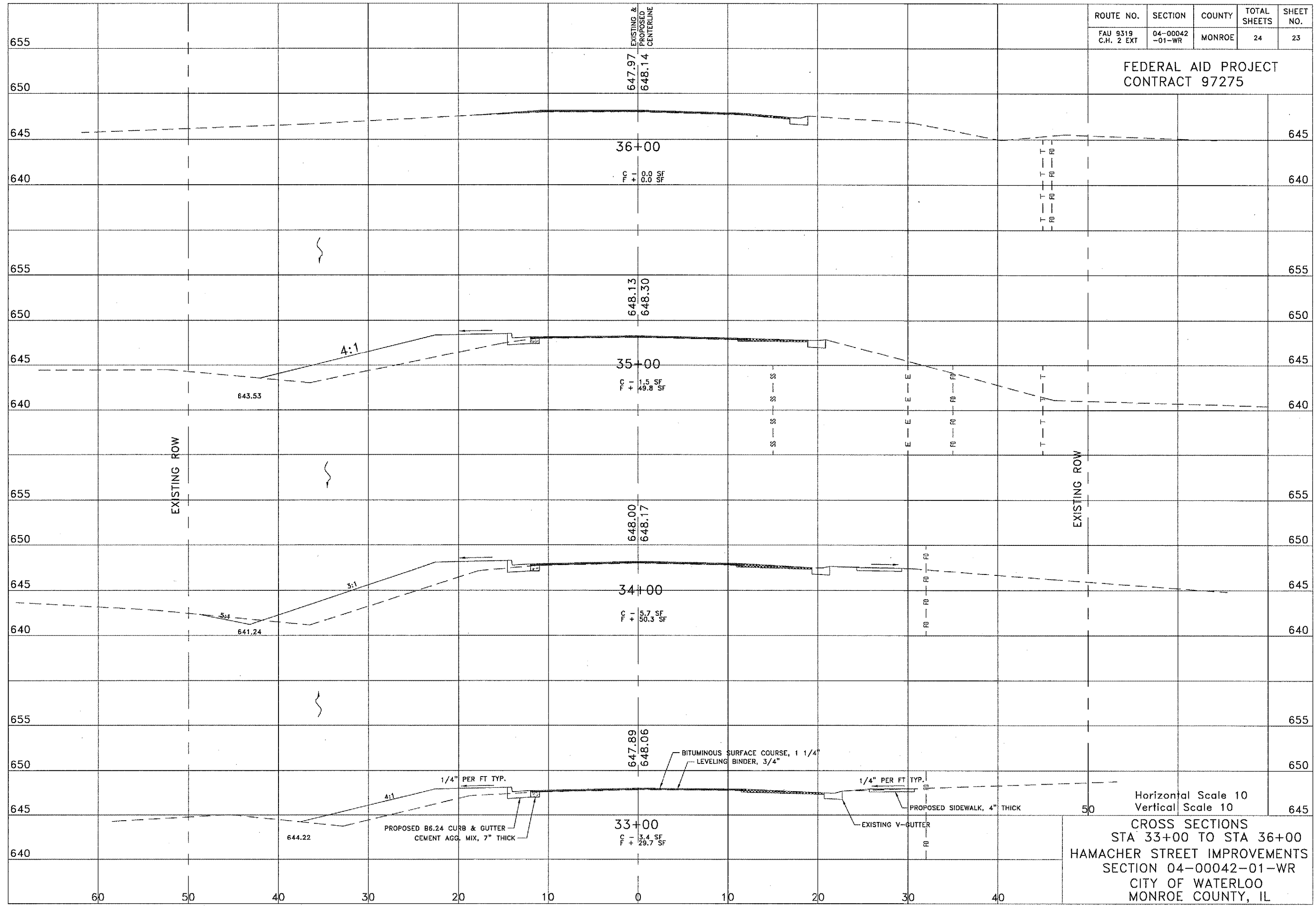
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	22

FEDERAL AID PROJECT
CONTRACT 97275



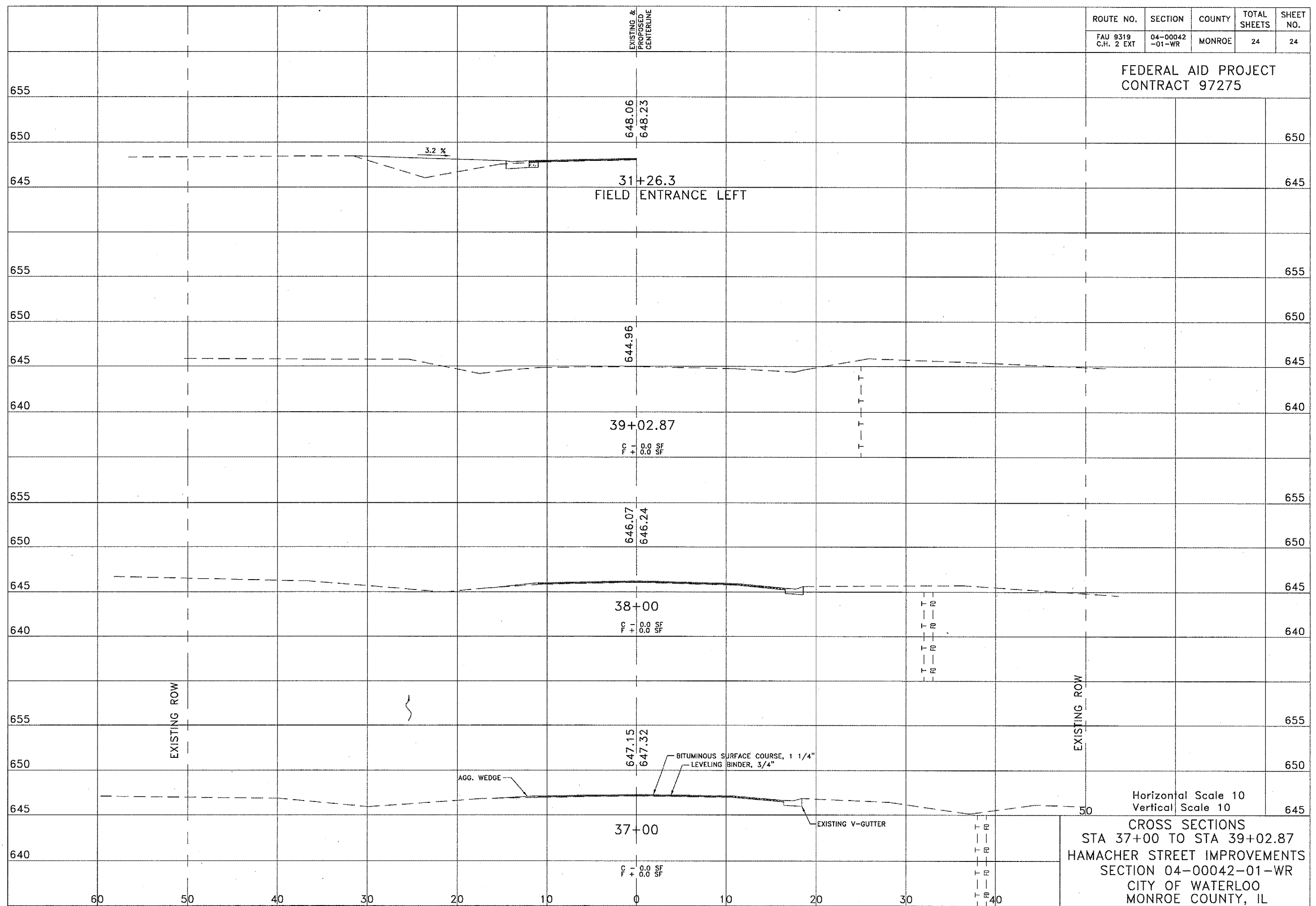
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	23

FEDERAL AID PROJECT
CONTRACT 97275



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9319 C.H. 2 EXT	04-00042 -01-WR	MONROE	24	24

FEDERAL AID PROJECT
CONTRACT 97275



Horizontal Scale 10
Vertical Scale 10

CROSS SECTIONS
STA 37+00 TO STA 39+02.87
HAMACHER STREET IMPROVEMENTS
SECTION 04-00042-01-WR
CITY OF WATERLOO
MONROE COUNTY, IL