

OUTAGAMIE

1516-03-72

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TOTAL SHEETS = 36



DESIGN DESIGNATION

ADT (1994)	=	10,050
ADT	=	12,300 (2004)
DHV	=	1,300 (2004)
D	=	60-40
T (ADT)	=	11.4%
DESIGN SPEED	=	45 MPH
ESALS	=	1,102,300

CONVENTIONAL SIGNS

COUNTY LINE	=====
CORPORATE LIMITS	=====
PROPERTY LINE	=====
LOT LINE	=====
LIMITED EASEMENT	=====
EXISTING RIGHT OF WAY	=====
PROPOSED OR NEW R/W LINE	=====
SURVEY LINE	=====
SLOPE INTERCEPT	=====
ORIGINAL GROUND	=====
MARSH OR ROCK PROFILE	=====
EXISTING CULVERT	=====
PROPOSED CULVERT (Box or Pipe)	=====
CULVERT (Profile View)	=====

COMBUSTIBLE FLUIDS	=====
UNDERGROUND UTILITIES	=====
GAS	=====
ELECTRIC	=====
TELEPHONE OR TELEGRAPH	=====
SERVICE PEDESTAL	=====
CABLE MARKER	=====
POWER POLE	=====
TELEPHONE POLE	=====
RAILROAD	=====
MARSH AREA	=====
WOODED OR SHRUB AREA	=====

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT

USH 10 AND CTH CB INTERSECTION

USH 10
OUTAGAMIE COUNTY

STATE PROJECT NUMBER
1516-03-72

STATE PROJECT

1516-03-72

FEDERAL PROJECT

PROJECT

STP 019(89)

CONTRACT

1

ESTIMATE OF QUANTITIES

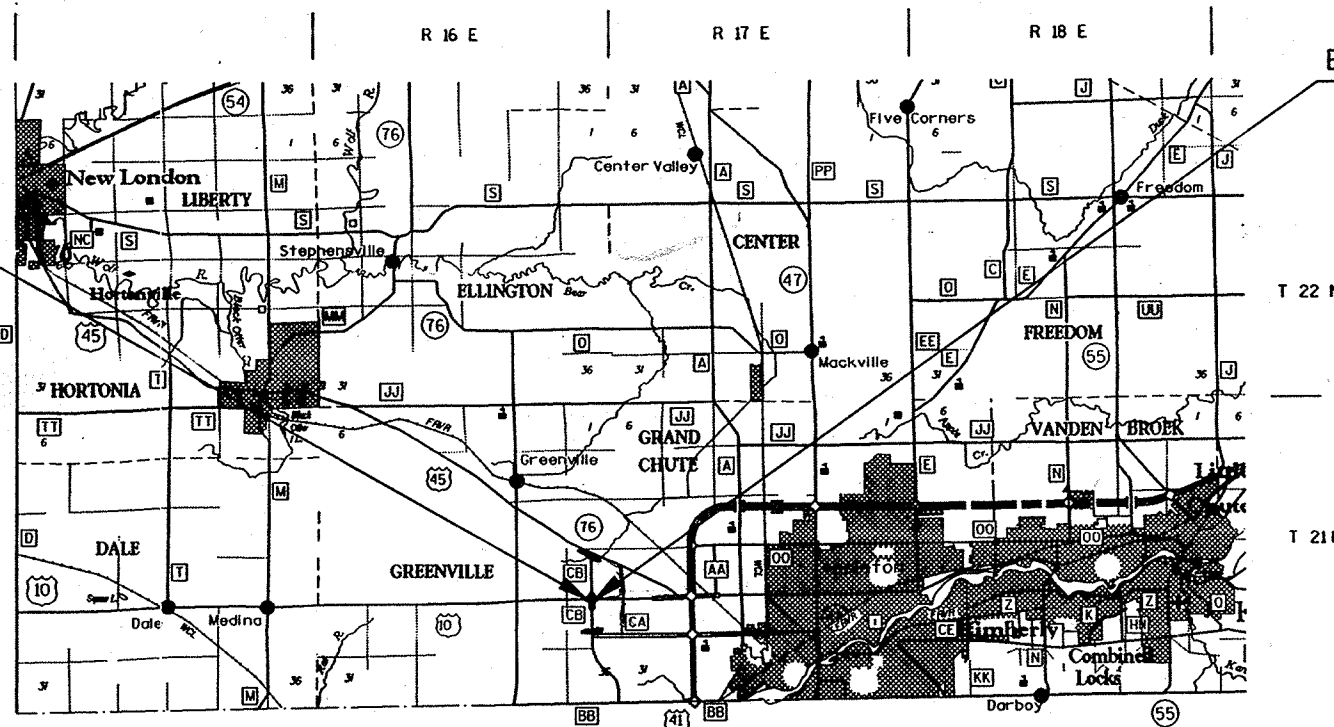
Item Title		GRADING, BASE COURSE, SURFACE COURSE, AND LANDSCAPING
Item No.		90001
Unit		LUMP SUM
PROJECT 1516-03-72		1
Total		1

N

CB-S

BEGIN PROJECT 1516-03-72
STA 252+00
Y 163,940.251
X 2,390,367.389

END PROJECT 1516-03-72
STA 269+75



LAYOUT
SCALE 0 1 2 MI.

PROJECT 1516-03-72 TOTAL NET LENGTH OF CENTERLINE = 0.336 MI

NOTE: ALL COORDINATES ON THIS PLAN ARE REFERENCED FROM WISCONSIN COORDINATE SYSTEM, CENTRAL ZONE.

ACCEPTED FOR
OUTAGAMIE COUNTY
3/8/95 (Date) [Signature]
ORIGINAL PLANS PREPARED BY
OMNI ASSOCIATES
APPLETON, WISCONSIN
WISCONSIN PROFESSIONAL ENGINEER
3/8/95 (Date) [Signature]

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PREPARED BY
Surveyor OMNI ASSOCIATES
Designer OMNI ASSOCIATES
District Examiner D. CARLSON
District Supervisor J. LAMERS
C.O. Coordinator
C.O. Examiner N.R. AFFELDT

APPROVED FOR DISTRICT OFFICE
DATE: 7/11/95 [Signature] (Signature)

AUTHORIZED FOR CENTRAL OFFICE DESIGN
DATE: 8/5/95 [Signature] (Signature)

CB-S

CB-S

ABBREVIATIONS

CTR	CENTER
CE	COMMERCIAL ENTRANCE
SDGL	SPECIAL DITCH GRADE LEFT
SDGR	SPECIAL DITCH GRADE RIGHT

STANDARD DETAIL DRAWINGS

SDD NUMBER	TITLE
8D1-11	CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES
8E6-7	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
8E8-2	TYPICAL INSTALLATIONS OF EROSION BALES
8E9-4	SILT FENCE
8F2-1	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
15C2-2	BARRICADES AND TRAFFIC CONTROL FOR ROAD CLOSURES
15C7-4A	PAVEMENT MARKING SYMBOLS
15C8-6A	PAVEMENT MARKING (MAINLINE)
15C8-6B	PAVEMENT MARKING (INTERSECTIONS)
15C8-6C	PAVEMENT MARKING (LEFT TURN LANE)
16A1-5	LANDMARK REFERENCE MONUMENT AND COVER

UTILITIES

ELECTRIC	WISCONSIN ELECTRIC POWER COMPANY P.O. BOX 1699 APPLETON, WISCONSIN 54913 ATTN: MR. JAMES JACOBS TELEPHONE: (414) 735-8445
TELEPHONE	AMERITECH 221 W. WASHINGTON STREET FOURTH FLOOR, OSPE APPLETON, WISCONSIN 54911 ATTN: MR. JOHN STUMPF CABLE LOCATE: (414) 735-3250
GAS	WISCONSIN NATURAL GAS COMPANY 800 SOUTH LYNNDALE DRIVE APPLETON, WISCONSIN 54912 ATTN: MR. DAVID BROOKS TELEPHONE: (414) 735-8357
WATER AND SANITARY SEWER	TOWN OF GREENVILLE P.O. BOX 60 GREENVILLE, WISCONSIN 54942 ATTN: MR. DON SCHINKE TELEPHONE: (414) 757-5151
DIGGERS HOTLINE	CABLE LOCATE TELEPHONE: (800) 242-8511 (TOLL FREE)
DNR LIAISON	MS. KELLEY O'CONNOR WDNR - LAKE MICHIGAN DISTRICT 1125 N. MILITARY AVENUE GREEN BAY, WISCONSIN 54307-0448 TELEPHONE: (414) 492-5819

COUNTY SURVEYOR OR SURVEYS CONTACT PERSON
MR. FRANK M. CHARLESWORTH - OUTAGAMIE COUNTY
OUTAGAMIE COUNTY COURT HOUSE
410 S. WALNUT STREET
APPLETON, WISCONSIN 54911
TELEPHONE: (414) 832-5255

STATE PROJECT NUMBER

1516-03-72

SHEET NO.

2.0

GENERAL NOTES, UTILITIES,
& STANDARD DETAIL DRAWINGS
USH 10 OUTAGAMIE COUNTY

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM UNCLASSIFIED EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILL TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 30 PERCENT. ALL FILL VOLUMES SHOWN ARE ACTUAL VOLUMES.

EXCAVATION BELOW SUBGRADE (EBS) IS SHOWN ON THE CROSS SECTIONS. IF ADDITIONAL EBS IS REQUIRED, IT SHALL BE PAID FOR AS UNCLASSIFIED EXCAVATION. EXACT LOCATIONS FOR EBS WILL BE DETERMINED BY THE ENGINEER.

DRIVEWAYS SHALL BE REPLACED IN KIND. CRUSHED LIMESTONE, IF NECESSARY, WILL BE PAID FOR AS CRUSHED AGGREGATE BASE COURSE.

ALL DISTURBED AREAS NOT OTHERWISE SURFACED SHALL BE TOPSOILED, SEEDED, FERTILIZED AND MULCHED. SEED MIXTURE NO. 10 SHALL BE USED.

ALL SILT FENCE REQUIRED FOR THIS PROJECT SHALL MEET THE REQUIREMENTS FOR SILTY SOILS.

IMMEDIATELY AFTER CONSTRUCTION OF ANY INLET, CONTRACTOR SHALL CONSTRUCT SILT FENCE AROUND THE INLET IN ACCORDANCE WITH THE DETAIL SHOWN ON THE PLANS TO MINIMIZE SEDIMENTATION IN THE INLET AND STORM SEWER.

CURB HEIGHTS AT THE ENDS OF CURB AND GUTTER SHALL BE TAPERED FROM 6 TO 0 INCHES IN 3 FEET, WHERE APPLICABLE.

36-INCH CURB AND GUTTER RADII SHOWN ARE TO THE FLANGELINE.
30-INCH CURB AND GUTTER RADII SHOWN ARE TO THE FACE OF CURB.

THE EXACT LOCATION AND LIMITS OF PRIVATE ENTRANCES AND COMMERCIAL ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

TACK COAT HAS BEEN ESTIMATED AT AN APPLICATION RATE OF 0.025 GALLONS PER SQUARE YARD AND SHALL BE USED IF DEEMED NECESSARY BY THE ENGINEER.

ALL MANHOLE AND INLET OFFSETS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
ALL ENDWALL OFFSETS ARE GIVEN TO THE DISCHARGE END OF THE STRUCTURE.

ALL SIGNS WHICH ARE REMOVED FOR THIS PROJECT SHALL BECOME THE PROPERTY OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION. CONTRACTOR SHALL COORDINATE WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION FOR A LOCATION TO PLACE REMOVED SIGNS.

CURVE DATA BASED ON ARC DEFINITION.

BEARINGS SHOWN ON THIS PLAN ARE GRID BEARINGS.

DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES.

CONVERSION FACTOR = 0.999935

PLAN ELEVATIONS = USGS DATUM.

ALL COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM, CENTRAL ZONE.

THE LAST 2 JOINTS OF RCCP SHALL BE TIED. TIES ARE INCIDENTAL TO ITEMS OF RCCP.

EROSION CONTROL GENERAL NOTE

RUNOFF COEFFICIENT FOR THIS PROJECT: EXISTING PAVEMENT 0.85, EXISTING SLOPES 0.30;
NEW PAVEMENT 0.90, NEW SLOPES 0.38. TOTAL PROJECT AREA 4.9 ACRES. TOTAL AREA DISTURBED 2.3 ACRES.

2.1

FOR

OUTAGAMIE CO.



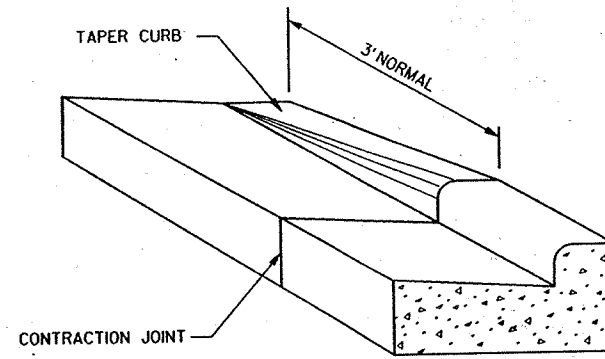
STA 252+00 TO 258+85



STA 258+85 TO 269+75

* STA 265+80 TO 267+00 VARIES FROM 12' TO 0'
* * STA 263+75 TO 269+75 VARIES FROM 12' TO 0'

- LEGEND
- ① 4 1/2-INCH ASPHALTIC CONCRETE PAVEMENT,
TYPE HV (1 1/2-INCH UPPER COURSE OVER
2 - 1 1/2-INCH LOWER COURSES)
 - ② 1 1/2-INCH EXISTING CRUSHED AGGREGATE BASE
COURSE TO REMAIN IN PLACE
 - ③ CRUSHED AGGREGATE BASE COURSE
 - ④ CRUSHED AGGREGATE BASE COURSE, SHOULDERS
 - ⑤ 9-INCH EXISTING CONCRETE PAVEMENT
 - ⑥ 6-INCH EXISTING CRUSHED AGGREGATE BASE COURSE



CULVERT PIPE OR
STORM SEWER

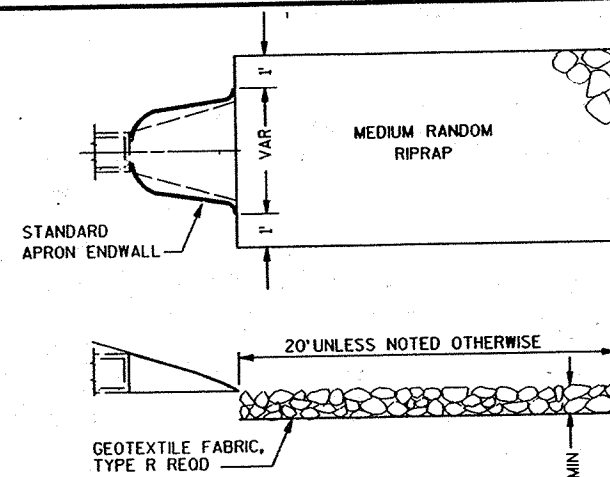
3 - 2" LAYERS OF
POLYSTYRENE
INSULATION BOARD

4' 1' 4'

EXIST SAN SEWER
OR WATER MAIN

NOTE: OFFSET JOINTS IN TOP LAYER
SO JOINTS DO NOT OVERLAP
JOINTS IN BOTTOM LAYER

POLYSTYRENE INSULATION BOARD



MEDIUM RANDOM RIPRAP DISCHARGE APRON

CONTRACT LIMITS

CTR 60'R,
99'SB'+16.82, 93.70'LT =
258+94.87, 84.00'RT

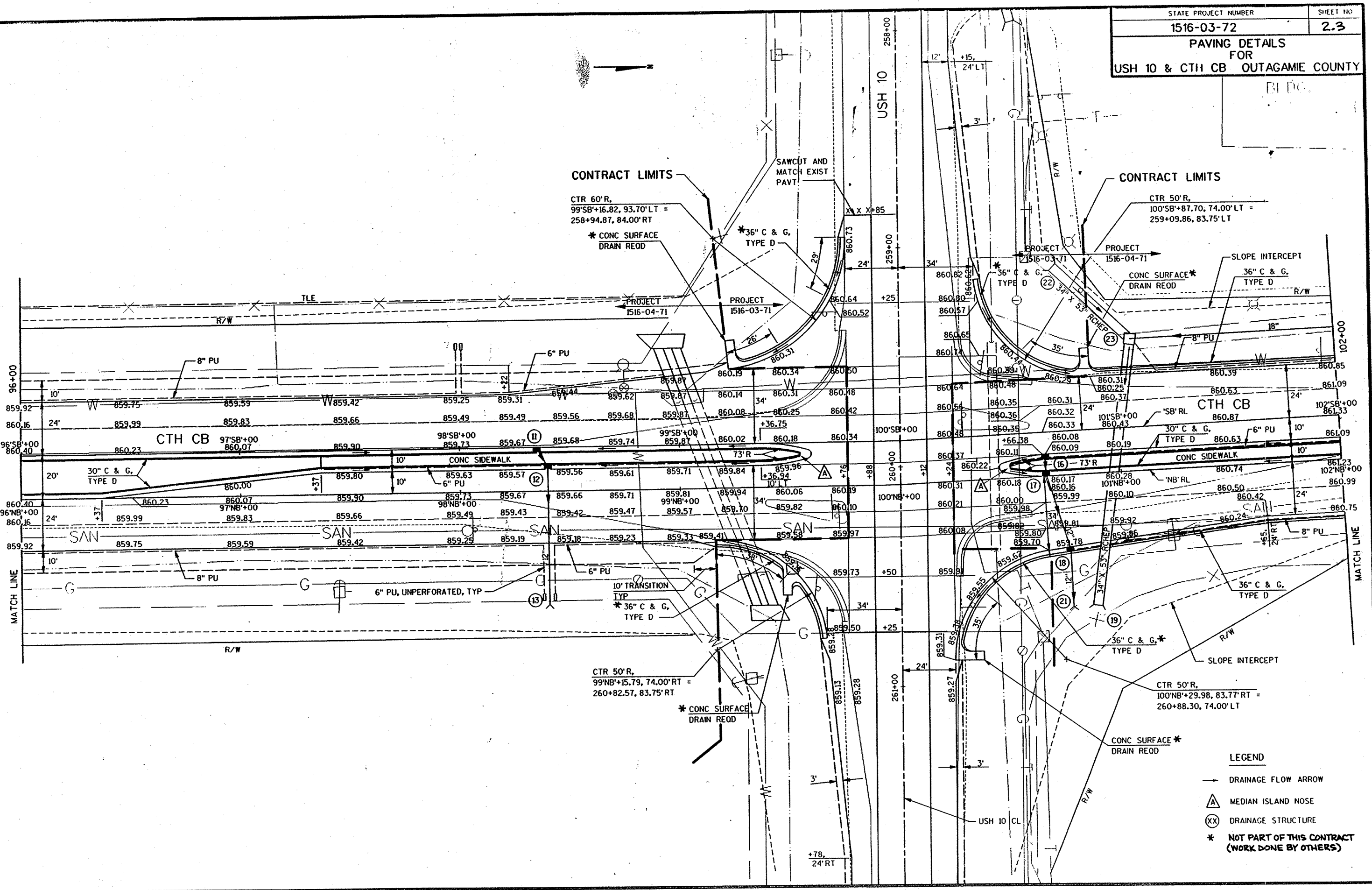
* CONC SURFACE
DRAIN REOD

CONTRACT LIMITS

CTR 50'R,
100'SB'+87.70, 74.00'LT =
259+09.86, 83.75'LT

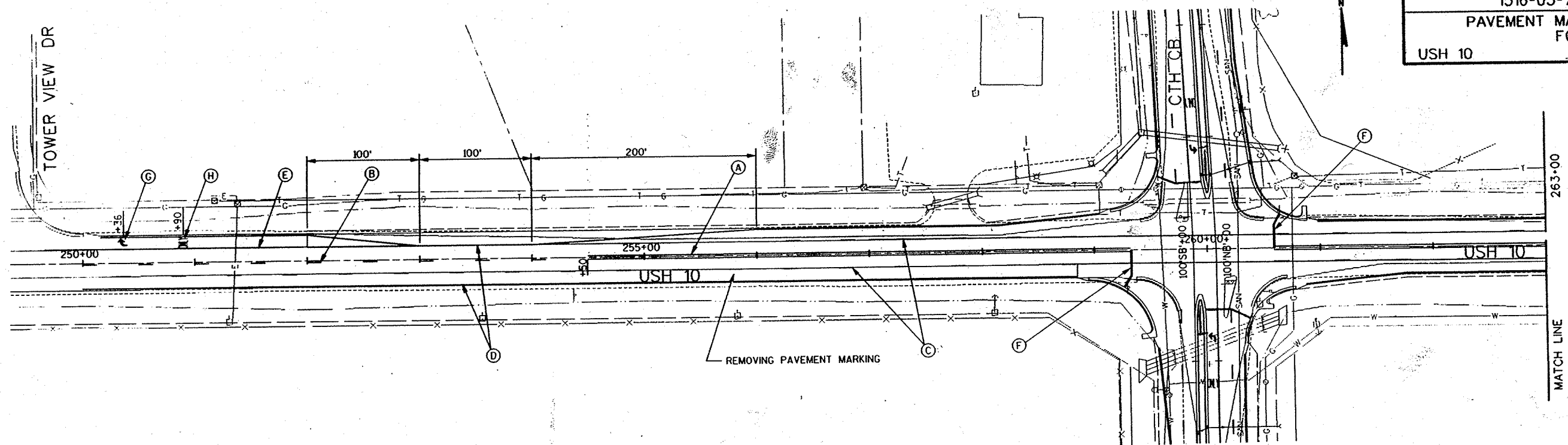
CONC SURFACE*
DRAIN REOD

SLOPE INTERCEPT
36" C & G,
TYPE D

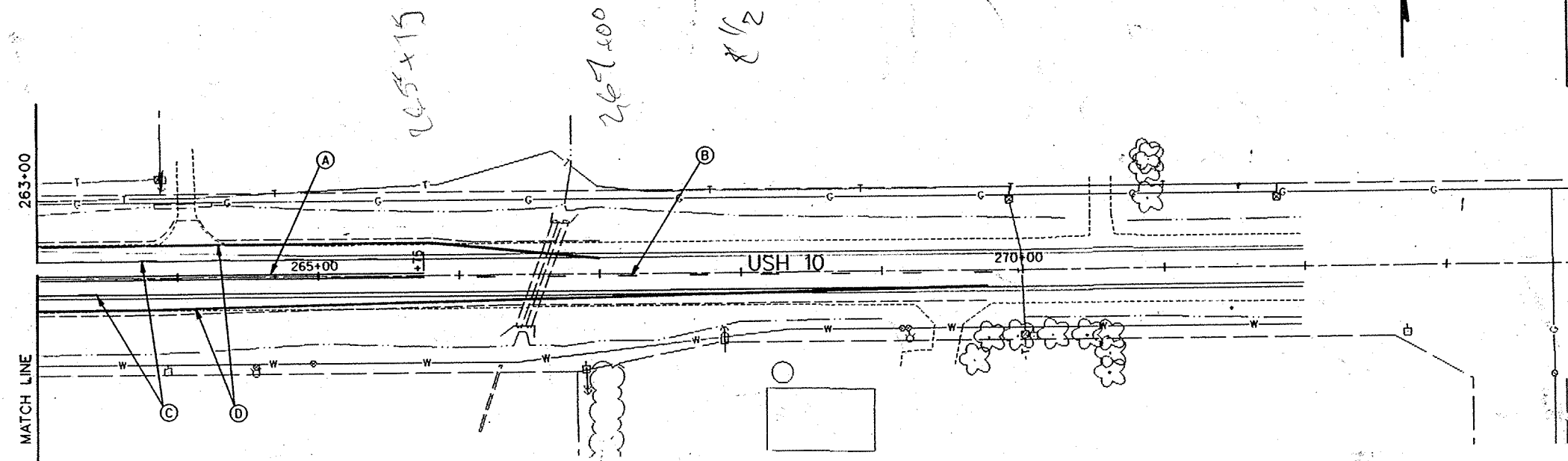


LEGEND

- DRAINAGE FLOW ARROW
- △ MEDIAN ISLAND NOSE
- ⊗ DRAINAGE STRUCTURE
- * NOT PART OF THIS CONTRACT
(WORK DONE BY OTHERS)



LEGEND	
(A) PAVT MARKING, NO PASSING, EPOXY, 4-INCH (DOUBLE YELLOW)	(E) PAVT MARKING, CHANNELIZING, EPOXY, 8-INCH (WHITE)
(B) PAVT MARKING, CENTERLINE, EPOXY, 4-INCH (DASHED YELLOW)	(F) PAVT MARKING, STOP LINE, EPOXY, 18-INCH (WHITE)
(C) PAVT MARKING, LANE LINE, EPOXY, 4-INCH (DASHED WHITE)	(G) PAVT MARKING, ARROW, EPOXY, TYPE 2
(D) PAVT MARKING, EDGE LINE, EPOXY, 4-INCH (WHITE)	(H) PAVT MARKING, WORDS, EPOXY



GENERAL SIGNING NOTES FOR TRAFFIC CONTROL

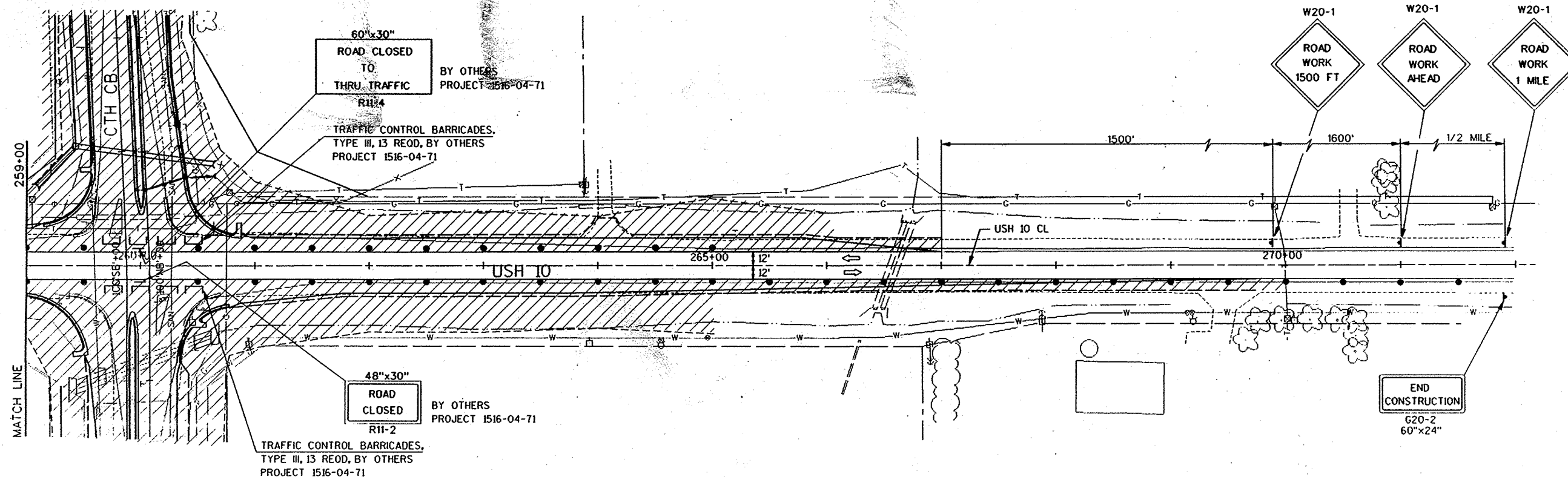
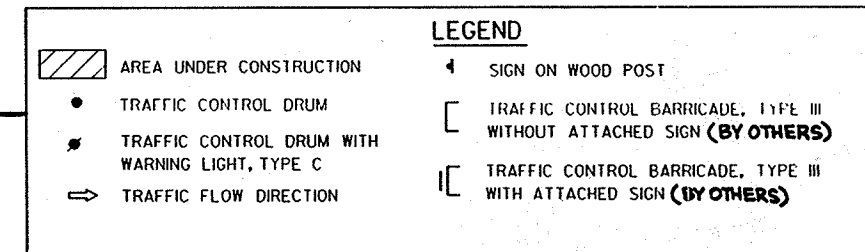
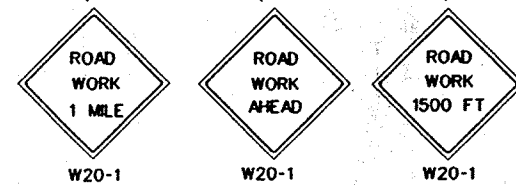
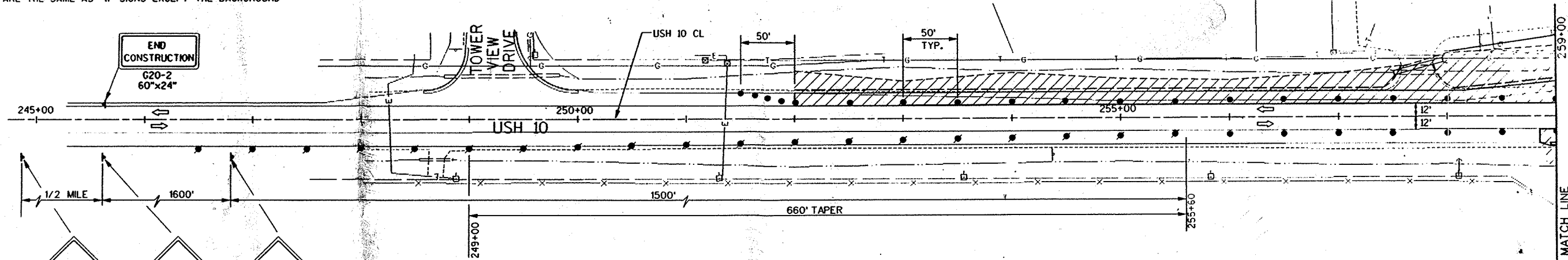
1. ALL SIGNS SHALL BE 48" x 48" UNLESS OTHERWISE NOTED.
2. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK ZONES" IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
3. ALL SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

5. TRAFFIC CONTROL SIGNS AND TRAFFIC SIGNALS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING SIGNS SHALL BE INCIDENTAL TO TRAFFIC CONTROL (I.S.).
6. ALL CONFLICTING EXISTING PAVEMENT MARKING SHALL BE REMOVED.

STATE PROJECT NUMBER
1516-03-72

SHEET NO.
2.5

TRAFFIC CONTROL PLAN
FOR
USH 10 OUTAGAMIE COUNTY

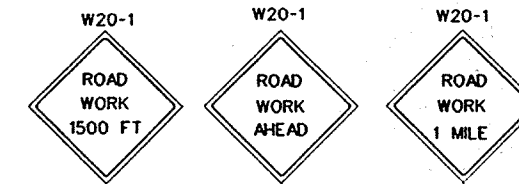


60"x30"
ROAD CLOSED
TO
THRU TRAFFIC
BY OTHERS
PROJECT 1516-04-71

TRAFFIC CONTROL BARRICADES,
TYPE III, 13 REOD, BY OTHERS
PROJECT 1516-04-71

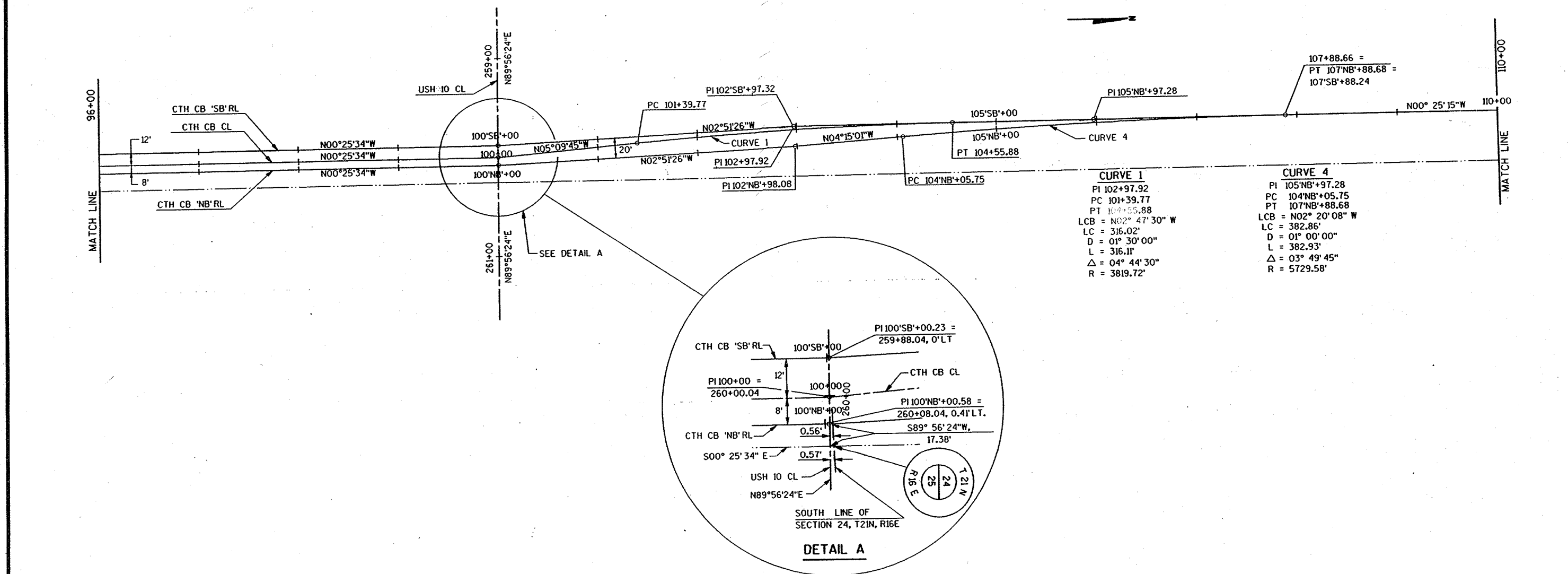
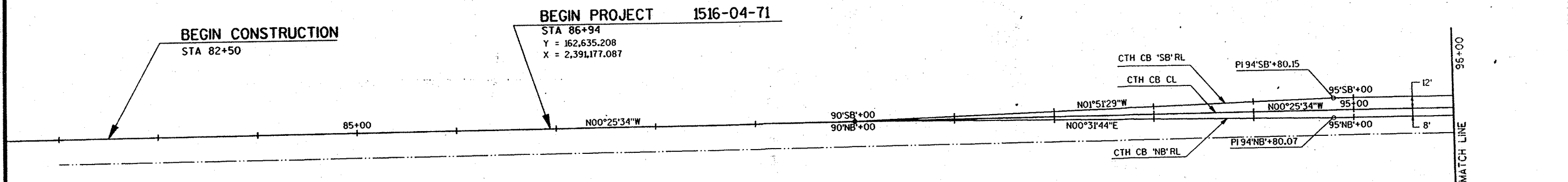
48"x30"
ROAD
CLOSED
BY OTHERS
PROJECT 1516-04-71

TRAFFIC CONTROL BARRICADES,
TYPE III, 13 REOD, BY OTHERS
PROJECT 1516-04-71

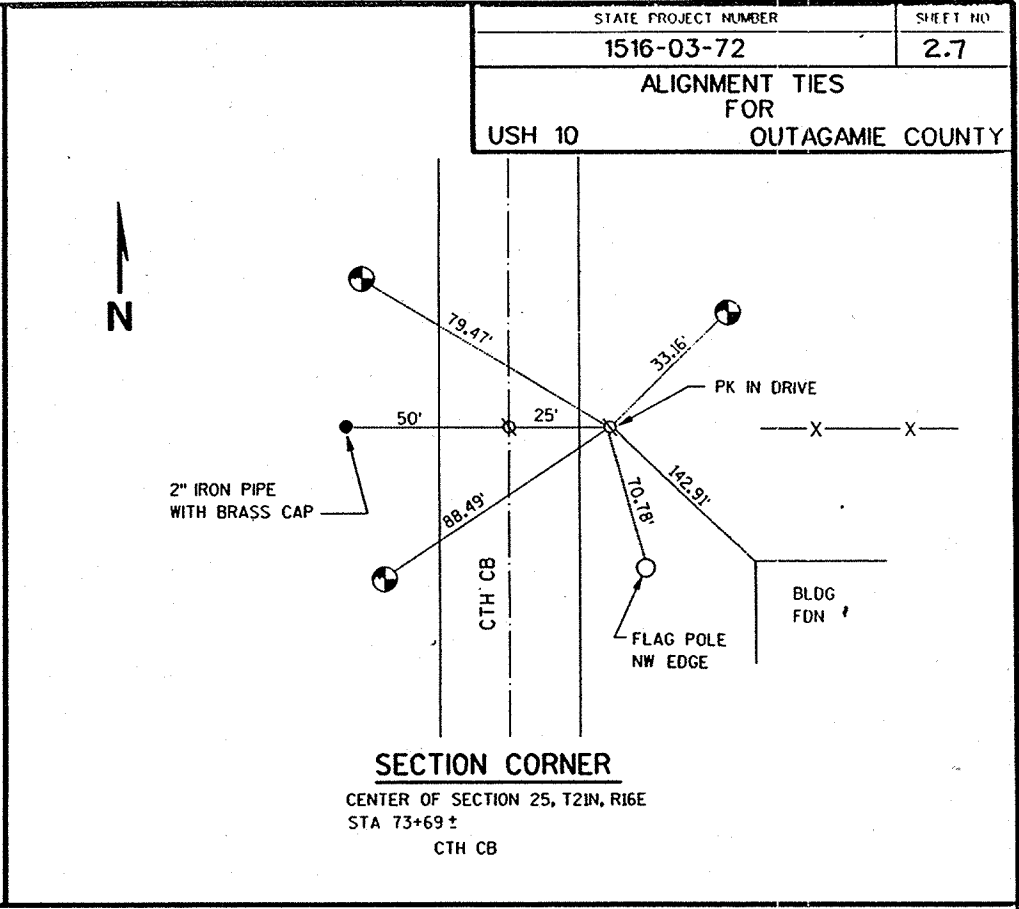
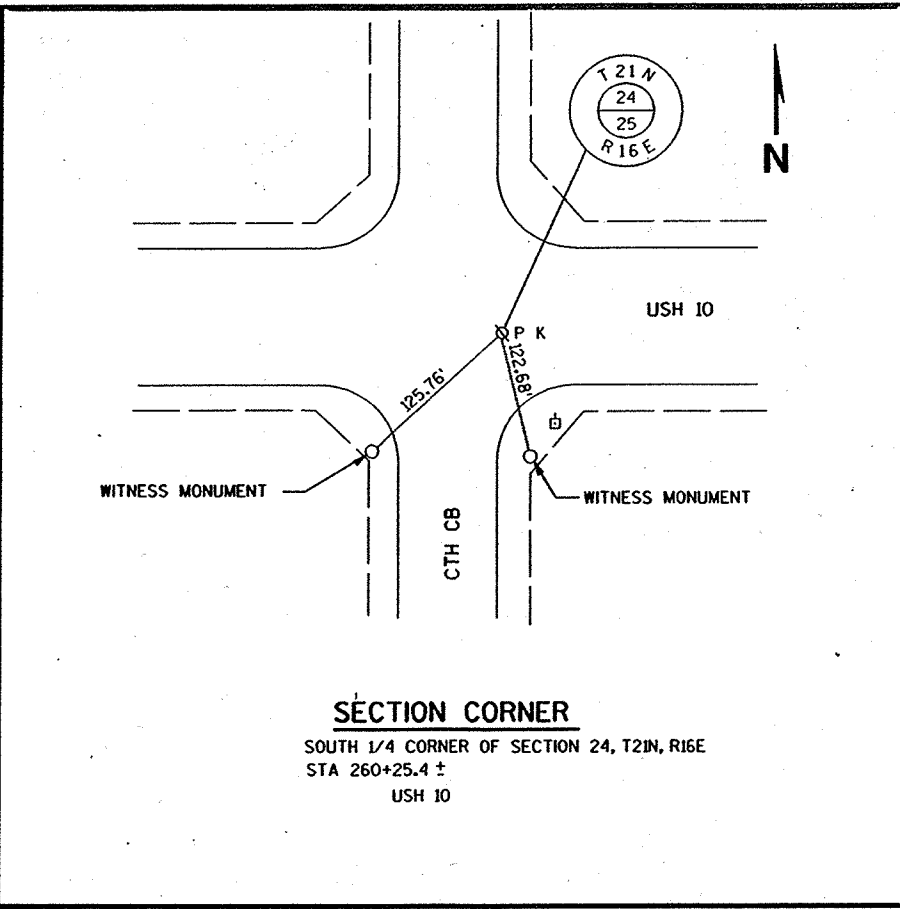
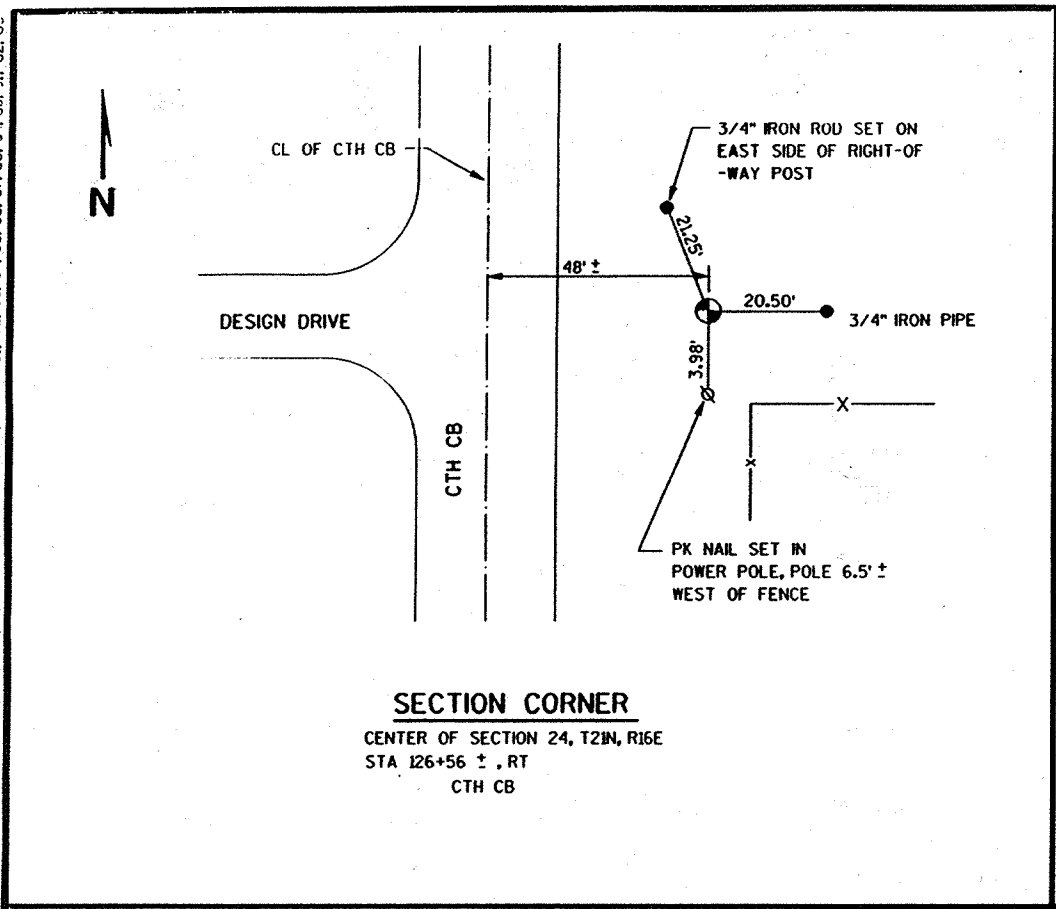


END
CONSTRUCTION
G20-2
60"x24"

STATE PROJECT NUMBER	SHEET NO
1516-03-72	2.6
ALIGNMENT PLAN FOR OUTAGAMIE COUNTY	
USH 10	



ELEVATION = 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



STATE PROJECT NUMBER	SHEET NO
1516-03-72	2.7
ALIGNMENT TIES FOR USH 10 OUTAGAMIE COUNTY	

- LEGEND**
- BERNTSEN MONUMENT
 - PK NAIL
 - IRON PIPE

LEVELS ON = 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

* EARTHWORK
USH 10

STATION	CUT AREA (SF)	CUT VOL (CY)	FILL AREA (SF)	FILL VOL (CY)
25200.00	10	0	4	0
25300.00	9	36	0	8
25400.00	8	32	2	5
25500.00	8	29	1	6
25600.00	9	31	0	2
25700.00	8	32	2	3
25800.00	30	71	7	15
25900.00	39	127	45	96
26000.00	12	93	0	84
26100.00	39	93	51	95
26200.00	18	104	16	124
26300.00	15	61	31	87
26400.00	25	74	7	71
26500.00	24	89	7	27
26600.00	14	69	7	27
26700.00	13	50	0	13
26800.00	14	50	0	0
TOTALS		1040		663

* REMOVING CURB & GUTTER

STATION TO STATION	LOCATION	LF
99'NB'+40 - 99'NB'+76. ISLAND	CTH CB	88
99'NB'+45 - 99'NB'+76. LT	CTH CB	48
99'NB'+47 - 99'NB'+76. RT	CTH CB	43
100'NB'+24 - 100'NB'+60. ISLAND	CTH CB	80
100'NB'+24 - 100'NB'+60. LT	CTH CB	43
100'NB'+24 - 100'NB'+60. RT	CTH CB	48
TOTAL		350

* UNCLASSIFIED EXCAVATION
YARDAGE SUMMARY

STATION TO STATION	LOCATION	UNCLASSIFIED EXCAVATION CY	FILL CY	WASTE CY
252+00 - 269+75	USH 10	1.040	663	178

* CRUSHED AGGREGATE BASE COURSE

STATION TO STATION	LOCATION	CRUSHED AGGREGATE BASE COURSE TONS	SHOULDER TONS
252+00 - 267+00. LT	USH 10	690	95
258+85 - 269+75. RT	USH 10	480	65
DRIVEWAYS	USH 10	70	---
TOTALS		1,240	160

* ASPHALTIC MATERIAL FOR TACK COAT AND PLANT MIXES
* ASPHALTIC CONCRETE PAVEMENT, TYPE HV

STATION TO STATION	LOCATION	TONS	MATERIAL FOR PLANT MIXES TONS	TACK COAT GAL
252+00 - 267+00. LT	USH 10	545	33	50
258+85 - 269+75. RT	USH 10	305	18	30
TOTALS		850	51	80

* SALVAGED CULVERT PIPE

STATION	LOCATION	DIAMETER (IN.)	LENGTH LF	TYPE	SALVAGED APRON ENDWALLS EA	NEW LOCATION STATION
257+65. 40'LT	USH 10. CE	49 X 33	47	CSPA	2	257+65. 45'LT

*NOTE:

THESE MISCELLANEOUS QUANTITY LISTINGS ARE FOR INFORMATION ONLY; THEY ARE PART OF ITEM: "GRADING, BASE COURSE, AND LANDSCAPING" - 1 LUMP SUM.

STATE PROJECT NUMBER

1516-03-72

SHEET NO.

3A

MISCELLANEOUS QUANTITIES
FOR
USH 10 OUTAGAMIE COUNTY

* MEDIUM RANDOM RIPRAP

STATION	LOCATION	CY
99'NB'+40. RT	CTH CB	23

* LANDMARK REFERENCE MONUMENTS

STATION	LOCATION	EACH	REMARKS
260+25.4 +/-	USH 10 SOUTH 1/4 CORNER OF SECTION 24, T21N, R16E	4	WITNESS MONUMENT

* SALVAGED TOPSOIL, MULCHING, FERTILIZER, TYPE B, AND SEEDING

STATION TO STATION	LOCATION	SALVAGED TOPSOIL SY	MULCHING SY	FERTILIZER, TYPE B CWT	SEED, NO. 10 LBS
252+00 - 259+15. LT	USH 10	1.400	1.400	2	25
260+90 - 267+00. LT	USH 10	1.420	1.420	1	25
260+75 - 269+75. RT	USH 10	1.180	1.180	1	25
TOTALS		4.000	4.000	4	75

* EROSION CONTROL

STATION	LOCATION	SILT FENCE DELIVERED & INSTALLED LF	SILT FENCE MAINTENANCE LF	EROSION BALES DELIVERED & INSTALLED EACH	SODDING SY
257+00. LT	USH 10	---	---	5	---
257+75. LT	USH 10	---	---	---	40
260+79. LT	USH 10	---	---	---	7
266+50. LT	USH 10	20	40	---	---
266+50. RT	USH 10	95	190	---	---
99'SB'+25. LT	CTH CB	---	---	---	7
99'NB'+48. RT	CTH CB	---	---	---	7
100'SB'+86. LT	CTH CB	---	---	---	7
UNDISTRIBUTED	USH 10	35	70	5	12
TOTALS		150	300	10	80

LEVEL 3 ON = 21, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

* TRAFFIC CONTROL. DRUMS AND WARNING LIGHTS. TYPE C					
LOCATION	SERVICE PERIOD DAYS	DRUMS NO.	DRUMS DAYS	WARNING LIGHTS NO.	WARNING LIGHTS DAYS
USH 10	40	80	3,200	19	380

* PAVEMENT MARKING. EPOXY. 4-INCH					
STATION TO STATION LOCATION	NO PASSINGS		CENTERLINE		EDGE LINE
	DOUBLE YELLOW	LF	DASHED YELLOW	LF	SOLID WHITE
250+00 - 254+50	USH 10	---	115	---	---
250+00 - 259+33	USH 10	---	---	325	---
250+00 - 259+05	USH 10	---	---	---	1,790
254+50 - 259+33	USH 10	968	---	---	---
260+59 - 265+75	USH 10	1,032	---	---	---
260+59 - 265+50	USH 10	---	---	200	---
260+90 - 269+75	USH 10	---	---	---	1,480
265+75 - 269+75	USH 10	---	100	---	---
TOTALS		2,000	215	525	3,270

* TRAFFIC CONTROL. SIGNS					
LOCATION	SERVICE PERIOD DAYS	SIGNS 48 X 48 NO.	SIGNS 48 X 48 DAYS	SIGNS 60 X 24 NO.	SIGNS 60 X 24 DAYS
USH 10	40	6	240	2	80
TOTALS			240		80

* CROSS DRAINS & PRIVATE ENTRANCE PIPES												
STATION	LOCATION	DIAMETER INCHES	LENGTH LF	TYPE	CLASS	THICKNESS (IN.)		ELEVATION		END TREATMENT		REMARKS
						STEEL	ALUM.	INLET	DISCHARGE	APRON ENDWALLS	SALVAGED APRON ENDWALLS	
99'NB'+18	CTH CB	48	2-33	RCCP	III	---	---	853.40	853.2+/-	---	---	10.6 EXTEND EXIST CULVERT

* PAVEMENT MARKING. CHANNELIZING. EPOXY. 8-INCH		
STATION TO STATION	LOCATION	LF
249+65 - 252+00	USH 10	235

* PAVEMENT MARKING. STOP LINE. EPOXY. 18-INCH		
STATION	LOCATION	LF
259+33. RT	USH 10	37
260+59. LT	USH 10	33
TOTAL		70

* PAVEMENT MARKING. ARROWS. EPOXY. TYPE 2. WORDS. EPOXY			
STATION	LOCATION	ARROWS TYPE 2 EACH	WORDS EACH
250+36. LT	USH 10	1	---
250+90. LT	USH 10	---	1

* REMOVING PAVEMENT MARKING		
STATION TO STATION	LOCATION	LF
245+25 - 252+60	USH 10	870
252+60 - 255+90	USH 10	330
TOTAL		1,200

* NOTE:
THESE MISCELLANEOUS QUANTITY LISTINGS ARE FOR INFORMATION ONLY; THEY ARE PART OF ITEM: "GRADING, BASE COURSE, SURFACE COURSE, AND LANDSCAPING" - 1 LUMP SUM.

STATE PROJECT NUMBER	SHEET NO
1516-03-72	3B
MISCELLANEOUS QUANTITIES FOR USH 10 OUTAGAME COUNTY	

* GEOTEXTILE FABRIC. TYPE R		
STATION	LOCATION	SY
99'SB'+25. LT	CTH CB	5
99'NB'+48. RT	CTH CB	5
260+79. LT	USH 10	5
100'SB'+86	CTH CB	5
99'NB'+40. RT	CTH CB	60
TOTAL		80

* SAWING EXISTING PAVEMENT		
STATION	LOCATION	LF
252+00. LT	USH 10	12
258+85. RT	USH 10	13
TOTAL		25

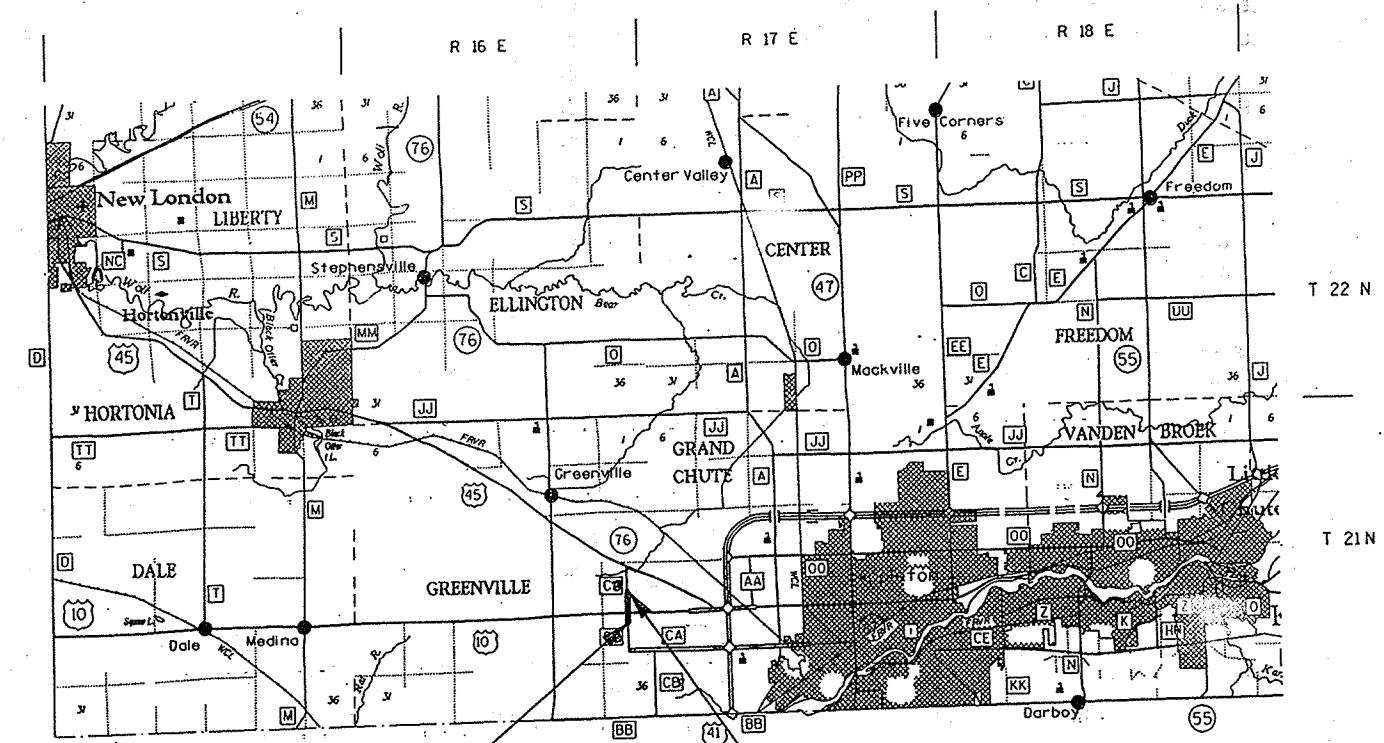
* CONSTRUCTION STAKING. CURB & GUTTER		
DESCRIPTION		LF
CONC CURB & GUTTER. 36-INCH. TYPE D		300

* POLYSTYRENE INSULATION BOARD. 6-INCH			
STATION	LOCATION	SF	REMARKS
99'SB'+00. LT	CTH CB	180	WATERMAIN

Conventional Signs and Abbreviations

SECTION LINE	AC	ACRES	R	RADIUS
QUARTER LINE	Δ	CENTRAL ANGLE	R.	RANGE
TOWNSHIP AND RANGE LINE	COR.	CORNER	R/L	REFERENCE LINE
PROPOSED OR NEW CENTERLINE	CTH	COUNTY TRUNK HIGHWAY	R/W	RIGHT OF WAY
PROPOSED OR NEW R/W LINE	D	DEGREE OF CURVE	S	SOUTH
EXISTING R/W LINE	E	EAST	SEC	SECTION
LOT LINE	L	LENGTH OF CURVE	SL	SECTION LINE
PROPERTY LINE	LC	LONG CHORD	SO FT	SQUARE FEET
SLOPE INTERCEPTS	LCB	LONG CHORD BEARING	STA	STATION
R/W POINT	MI	MILE	T	TOWN
FENCE	N	NORTH	T	TANGENT LENGTH OF CURVE
SECTION OR QUARTER CORNER	PC	POINT OF CURVATURE	TLE	TEMPORARY LIMITED EASEMENT
POWER POLE	PI	POINT OF INTERSECTION	USH	UNITED STATES HIGHWAY
TELEPHONE PEDESTAL	PT	POINT OF TANGENCY	W	WEST
UNDERGROUND TELEPHONE CABLE	PLE	PERMANENT LIMITED EASEMENT		
TEMPORARY LIMITED EASEMENT				
NO ACCESS (BY ACQUISITION)				
NO ACCESS (BY STATUTORY AUTHORITY)				
NO ACCESS (BY PREVIOUS PROJECT)				

REVISION DATE	R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
2/14/95	FEDERAL PROJECT NUMBER	4.0	
PLAT OF RIGHT OF WAY REQUIRED FOR CTH CA3 (CTH CA3 - USH 10) OUTAGAMIE COUNTY			
1516-03-72/4.0			



BEGIN RELOCATION ORDER
STA 82+50
881.10' N OF AND 31.53' W OF THE
CENTER OF SECTION 25, T21N, R16E

END RELOCATION ORDER
STA 144+32.37
874.63' S OF AND 54.37' E OF THE N 1/4
CORNER OF SECTION 24, T21N, R16E.

Notes

BEARING ORIENTATION
RIGHT OF WAY BEARINGS ARE ORIENTED TO THE WEST LINE OF THE SE 1/4 OF SECTION 25.
T21N, R16E, WITH THE BEARINGS ESTABLISHED AS N00° 25' 34" W.
THE DIFFERENCE BETWEEN PLAT BEARINGS REPRESENTS PLANE ANGLES IN DEGREES, MINUTES, AND SECONDS.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY
LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.
OTHER INFORMATION IS PROVIDED TO SUPPLEMENT THE BASIC PERIMETER DESCRIPTION AND SHALL
NOT BE CONSTRUED TO PREVAIL OVER THE PERIMETER DESCRIPTION.

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS
OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS
TO THE AREA TO BE ACQUIRED.

LAYOUT
SCALE 0 2 MI.
TOTAL NET LENGTH OF CENTERLINE - 0.90 MI.

APPROVED FOR
7/25/94 Date <i>M. J. Miller</i>
PLAT PREPARED BY:
OMNI ASSOCIATES APPLETON, WISCONSIN
 <i>Larry J. Miller</i> 7/25/94 Date

LEVELS ON = 01, 02, 03, 04, 05, 06, 0, 0.1, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 6.0, 6.1, 6.2, 6.3

SCHEDULE OF LANDS & INTEREST REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.
(c) INDICATES CALCULATED AREA, BASED ON RECORD INFORMATION

REVISION DATE
2/14/95

ROUTE
CTH C&B

COUNTY
OUTAGAMIE

DATE

R/W PROJECT NUMBER

FEDERAL PROJECT NUMBER

1516-03-72

SHEET
NUMBER

4.1

4.1

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES			TOTAL ACRES REM.	TLE ACRES	PLE ACRES
					NEW	EXIST.	TOTAL			
1	4.3	JANSPORT, INC.	FEE TITLE	34.01	0.48	0.00	0.48	33.53	--	--
2	4.3	OUTAGAMIE COUNTY AIRPORT	FEE TITLE & T.L.E.	1449.10	0.77	0.00	0.77	1448.33	0.18	--
3	4.4	FRED J. PIETTE & SHIRLEY PIETTE	FEE TITLE & ACCESS RIGHTS	4.46 (C)	0.07	0.00	0.35	4.39	--	--
4	4.4	PETER A. WESTERGARD	FEE TITLE & ACCESS RIGHTS	3.42 (C)	0.27	0.00	0.27	3.15	--	--
5	4.4	DANIEL S. RAJEK & KARLA S. RAJEK	FEE TITLE & ACCESS RIGHTS	1.12	0.09	0.00	0.09	1.03	--	--
6	4.4	DONALD J. DORSEY & LUCILLE M. DORSEY	FEE TITLE & ACCESS RIGHTS	1.31	0.03	0.00	0.03	1.28	--	--
7	4.4	PAUL E. SCHIRQUH	FEE TITLE & ACCESS RIGHTS	49.45	0.12	0.00	0.12	49.33	--	--
8	4.5	SILAS KOERNER	FEE TITLE & ACCESS RIGHTS	80.00	0.36	0.00	0.36	79.64	--	--
9	4.4	MARIY J. NIKODEM & SUZETTE A. NIKODEM	FEE TITLE	2.83	0.08	0.00	0.08	2.75	--	--
10	4.4	TOWN OF GREENVILLE	PLE	2.06	0.00	0.00	0.00	2.06	--	0.08
11	4.5	UNITEL	FEE TITLE	2.10	0.08	0.00	0.08	2.02	--	--
12	4.5	TOWN OF GREENVILLE	FEE TITLE	2.31	0.07	0.00	0.07	2.24	--	--
13	4.5	N.C.S. PARTNERSHIP	FEE TITLE	2.10	0.07	0.00	0.07	2.03	--	--
14	4.5	N.C.S. PARTNERSHIP	FEE TITLE	2.42	0.08	0.00	0.08	2.34	--	--
15	4.6.4.7	CATHERINE SCHLIMM	FEE TITLE & ACCESS RIGHTS	92.97	0.51	0.00	0.51	92.46	--	--
16	4.6.4.7	MARGARET SCHROEDER, VENDOR RICHARD L. SCHROEDER & PATRICIA ANN SCHROEDER, VENDEES	FEE TITLE & ACCESS RIGHTS	74.24	0.48	0.00	0.48	73.76	--	--
21	--	WISCONSIN ELECTRIC POWER COMPANY	RELEASE OF RIGHTS	--	--	--	--	--	--	--
22	--	AMERITECH	RELEASE OF RIGHTS	--	--	--	--	--	--	--

REVISION DATE
2/14/95

ROUTE
CTH CA^e

COUNTY
OUTAGAMIE

DATE

R/W PROJECT NUMBER

SHEET
NUMBER

SCALE, FT.

GRID FACTOR

FEDERAL PROJECT NUMBER

4.2

0 100 200 400 FT.

0.999935

1516-03-72

4.2

25
TOWN

24
OF

②
OUTAGAMIE COUNTY AIRPORT

③
FRED J. PIETTE &
SHIRLEY PIETTE

⑨
MARTY J. NIKODEM &
SUZETTE A. NIKODEM
LOT 3

TOWN OF GREENVILLE
LOT 4

⑪
UNITEL
LOT 5

⑫
TOWN OF GREENVILLE
LOT 6

⑬
N.C.S. PARTNERSHIP
LOT 7

⑭
N.C.S. PARTNERSHIP
LOT 8

⑮
MARGARET SCHROEDER, VENDOR
RICHARD L. SCHROEDER &
PATRICIA ANN SCHROEDER, VENDEES

CTH CA^b

①
JANSPOUT INC.

②①
WISCONSIN ELECTRIC
POWER COMPANY

CSM 1705
LOT 1

②②
AMERITECH

⑦
PAUL E. SCHROTH

⑥
DONALD J.
DORSEY &
LUCILLE M.
DORSEY
LOT 1

⑤
DANIEL S. RAJEK &
KARLA S. RAJEK
LOT 2

④
PETER A. WESTERGARD

CTH CA^b

⑧
SILAS KOERNER

②③
AMERITECH
EASEMENT

⑬
CATHERINE SCHLIMM

GREENVILLE

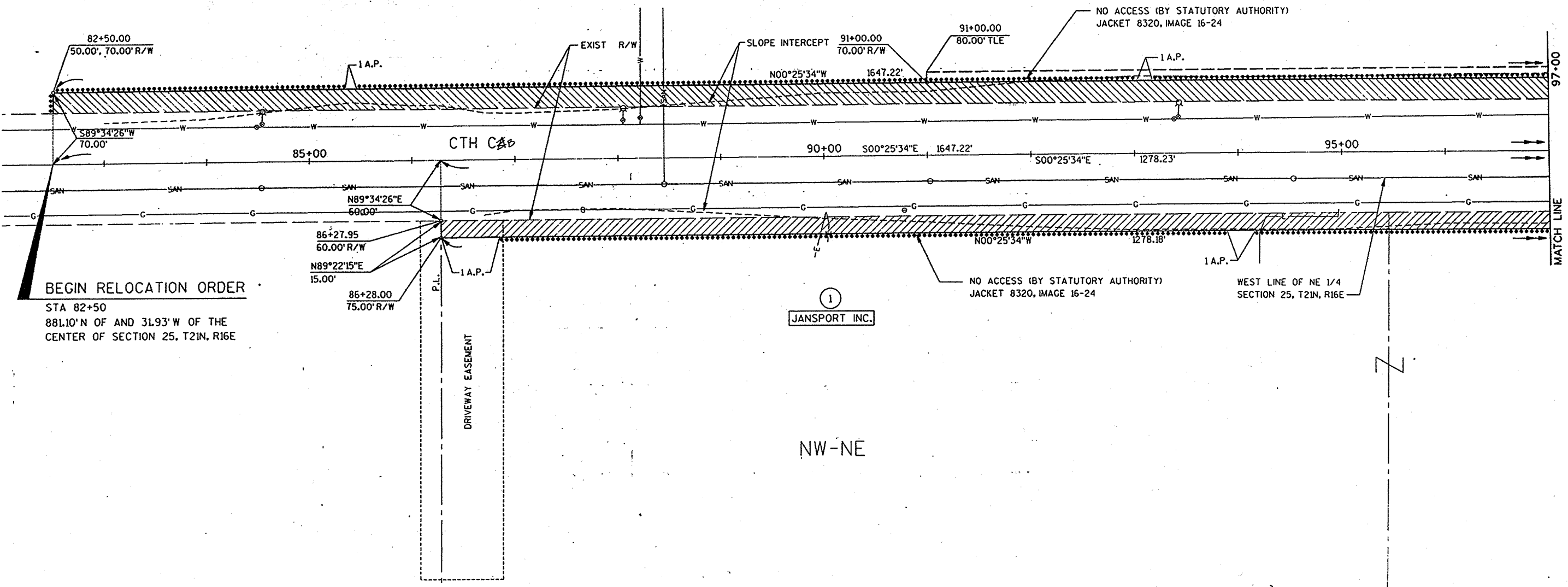
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REVISION DATE 2/14/95	N/C	ROUTE CTH C&B	COUNTY OUTAGAMIE	DATE	R/W PROJECT NUMBER	SHEET NUMBER
		SCALE, FT. 0 25 50 100 FT.	GRID FACTOR 0.999935		FEDERAL PROJECT NUMBER 1516-03-72	4.3
						4.3

TOWN OF GREENVILLE

NE-NW

2
OUTAGAMIE COUNTY AIRPORT



REVISION DATE
2/14/95

ROUTE
CTH CA8

SCALE, FT.
0 25 50 100 FT.

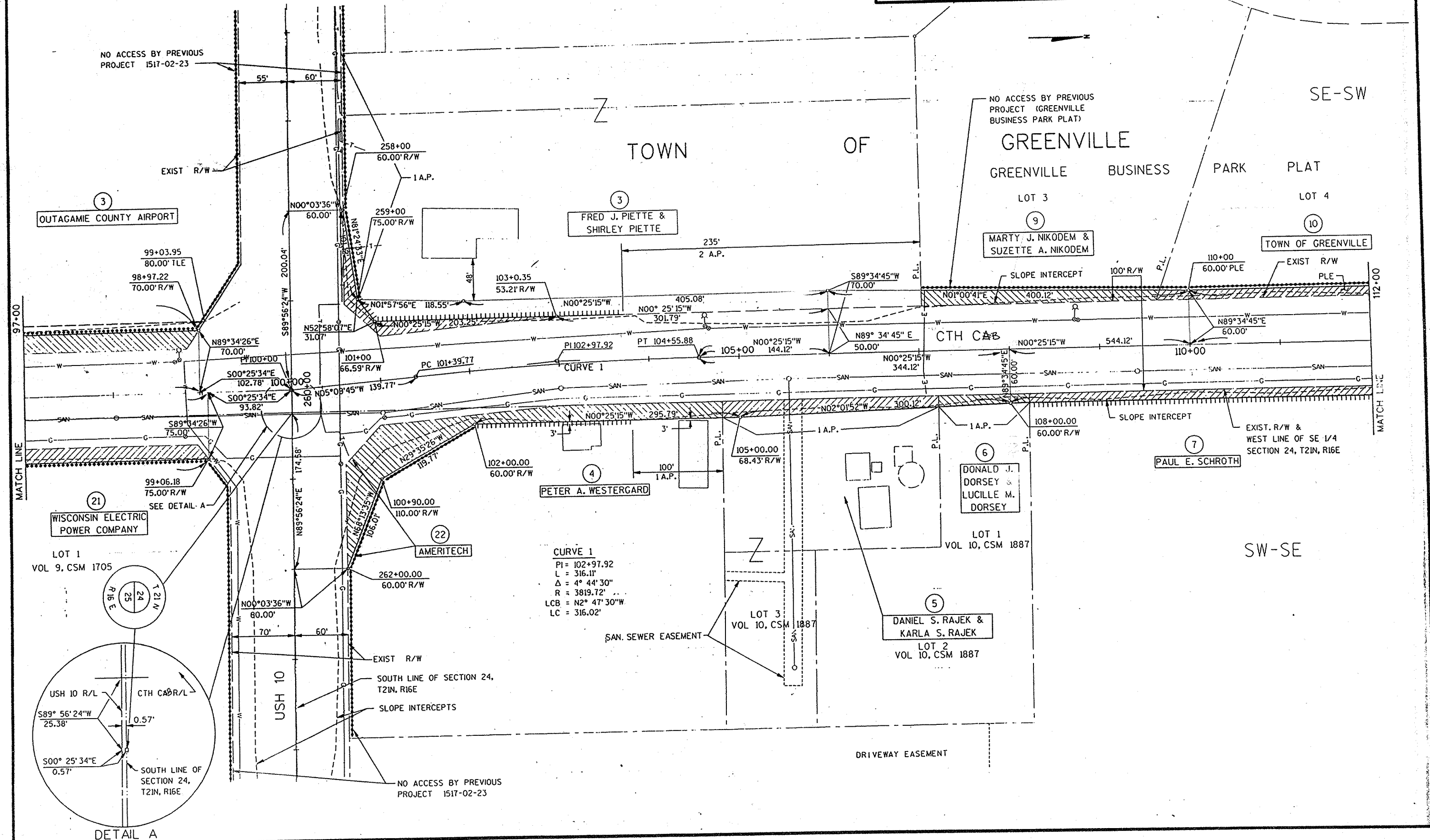
COUNTY
OUTAGAMIE

GRID FACTOR
0.999935

R/W PROJECT NUMBER
1516-03-72

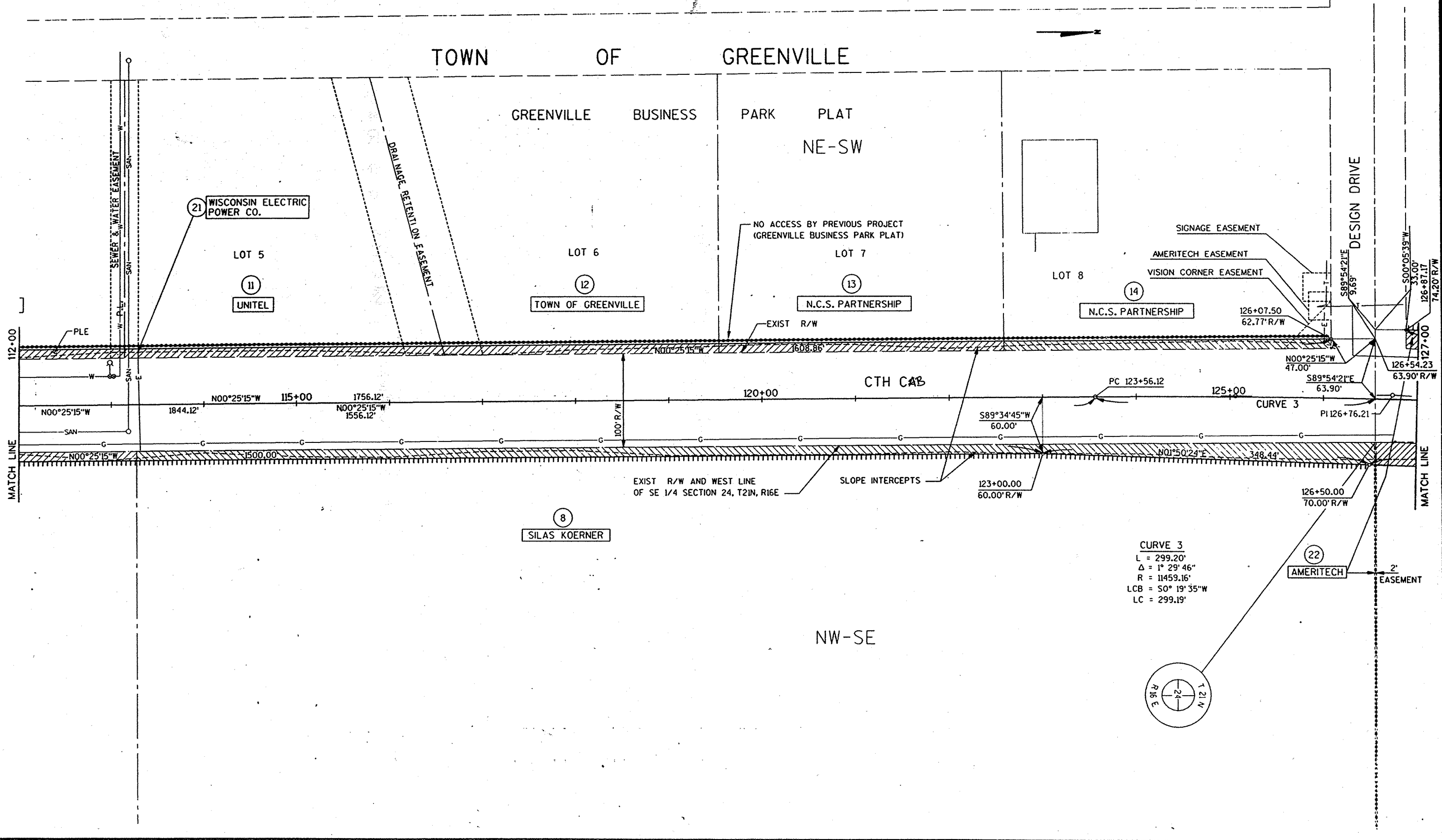
FEDERAL PROJECT NUMBER

SHEET
NUMBER
4.4



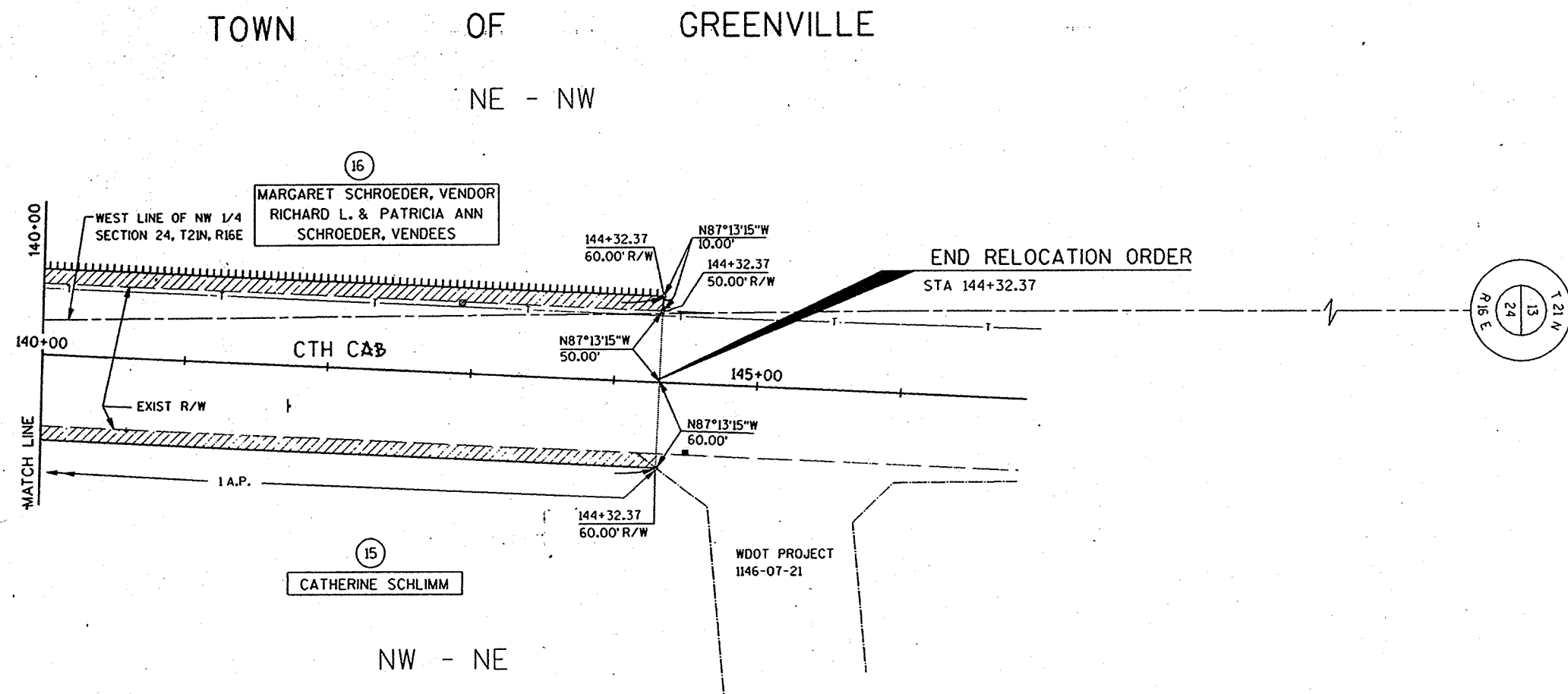
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REVISION DATE 2/14/95	ROUTE CTH CAB	COUNTY OUTAGAMIE	DATE	R/W PROJECT NUMBER	SHEET NUMBER
	SCALE, FT. 0 25 50 100 FT.	GRID FACTOR 0.999935		FEDERAL PROJECT NUMBER 1516-03-72	4.5
					4.5



LEVELS ON = 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

REVISION DATE 2/14/95	ROUTE CTH CA 2	COUNTY OUTAGAMIE	DATE	R/W PROJECT NUMBER	SHEET NUMBER
	SCALE, F.T. 0 25 50 100 F.T.	GRID FACTOR 0.999935		FEDERAL PROJECT NUMBER 1516-03-12	4.7



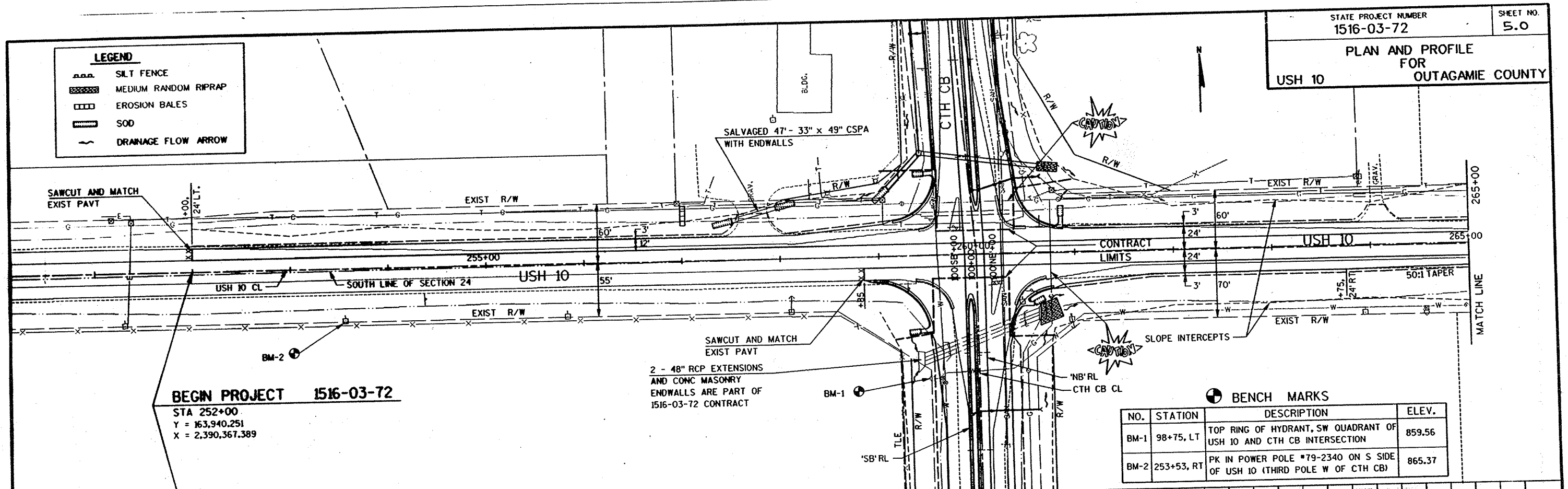
STATE PROJECT NUMBER
1516-03-72

SHEET NO.
5.0

PLAN AND PROFILE
FOR
USH 10
OUTAGAMIE COUNTY

LEGEND

- SILT FENCE
- ▨ MEDIUM RANDOM RIPRAP
- ▤ EROSION BALES
- ▩ SOD
- DRAINAGE FLOW ARROW



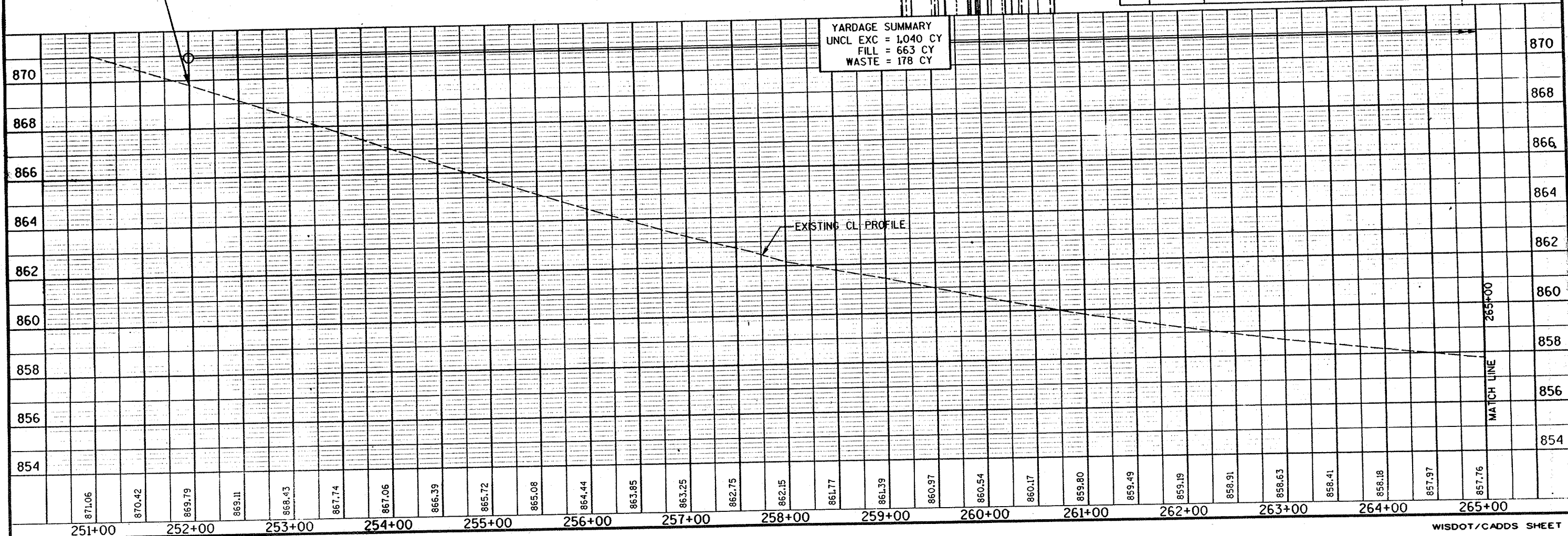
BEGIN PROJECT 1516-03-72

STA 252+00
Y = 163,940.251
X = 2,390,367.389

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
BM-1	98+75, LT	TOP RING OF HYDRANT, SW QUADRANT OF USH 10 AND CTH CB INTERSECTION	859.56
BM-2	253+53, RT	PK IN POWER POLE #79-2340 ON S SIDE OF USH 10 (THIRD POLE W OF CTH CB)	865.37

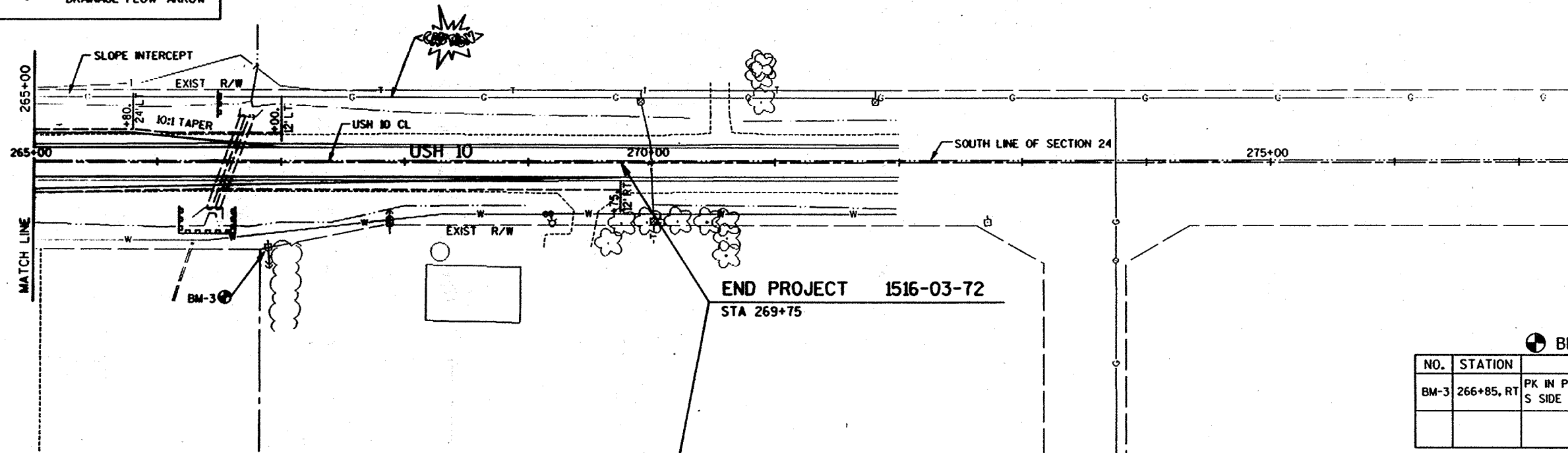
YARDAGE SUMMARY
UNCL EXC = 1,040 CY
FILL = 663 CY
WASTE = 178 CY



LEGEND

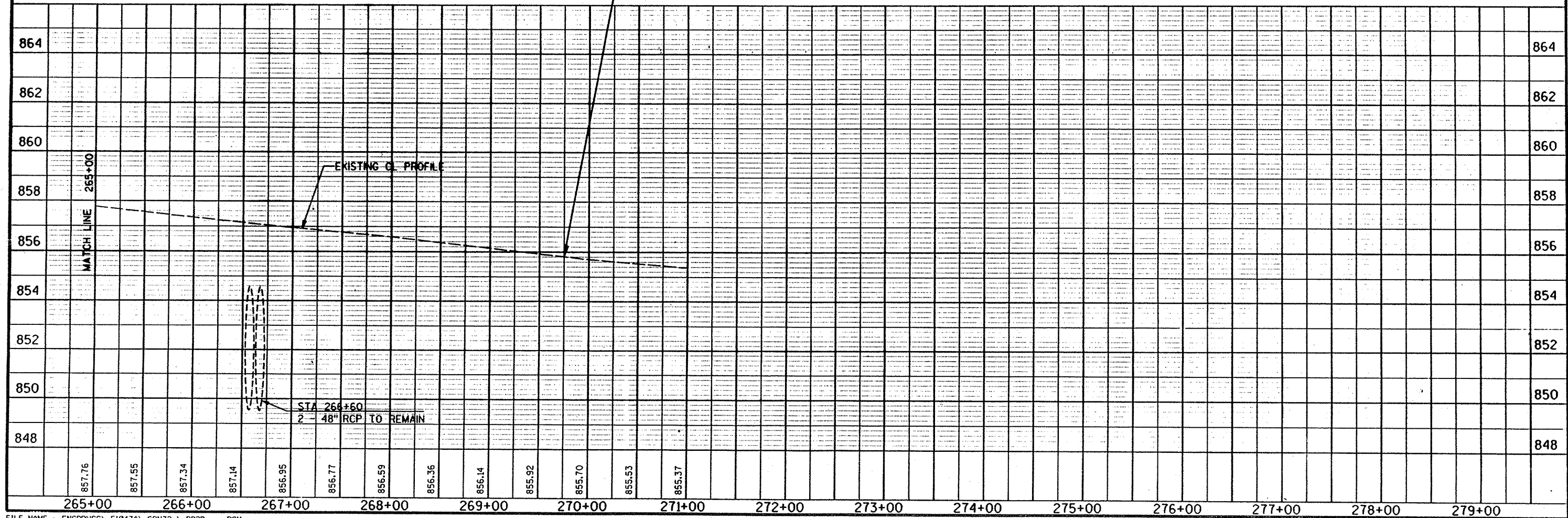
- SILT FENCE
- MEDIUM RANDOM RIPRAP
- EROSION BALES
- SOD
- DRAINAGE FLOW ARROW

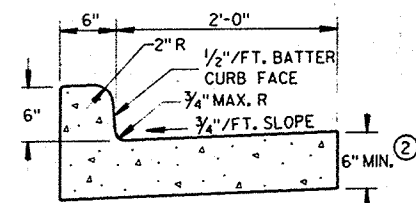
STATE PROJECT NUMBER 1516-03-72	SHEET NO. 5.1
PLAN AND PROFILE FOR USH 10 OUTAGAMIE COUNTY	



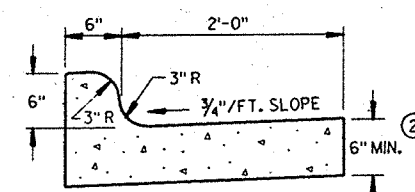
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
BM-3	266+85, RT	PK IN POWER POLE #79-2346, S SIDE OF USH 10	855.95

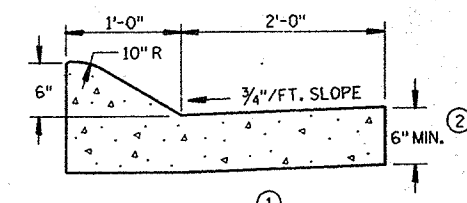




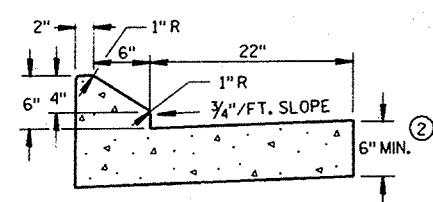
TYPES A & D



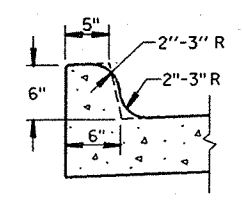
TYPES K & L



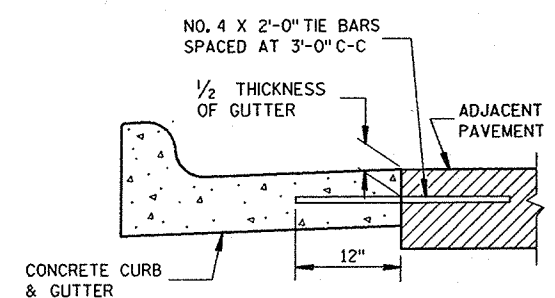
TYPES A & D
CONCRETE CURB & GUTTER 36"



TYPES G & J

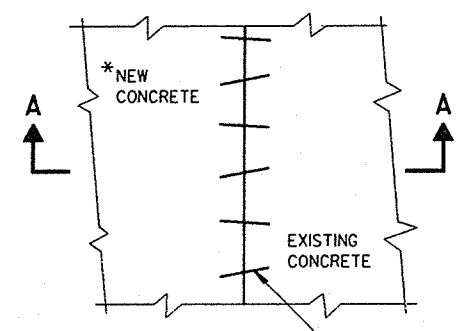


OPTIONAL CURB SHAPE
FOR TYPES K & L



TYPICAL TIE BAR LOCATION

CONCRETE CURB & GUTTER 30"

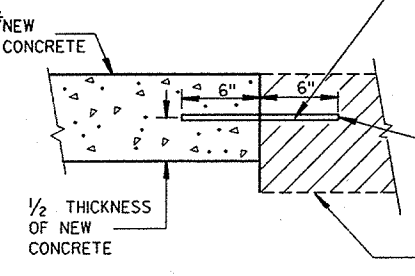


PLAN VIEW

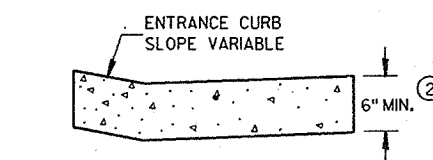
*NEW CURB & GUTTER,
SURFACE DRAINS,
CONCRETE PAVEMENT
OR OTHER NEW CONCRETE.

NO. 6 X 12" DEF. BARS
SPACED 3'-0" C-C,
INSTALLED ON 6:1 SKEW
HORIZONTALLY. DIRECTION
OF SKEW ALTERNATING AFTER
EVERY ONE OR TWO BARS.

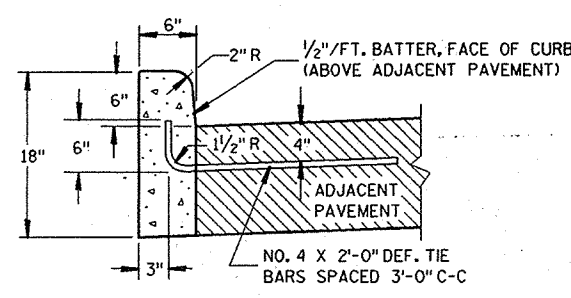
THE HOLE FOR THE BAR SHALL
BE DRILLED TO A DEPTH OF
7" AND TO SUCH A DIAMETER
AS TO PROVIDE A TIGHT
DRIVEN FIT



SECTION A-A
PAVEMENT TIES

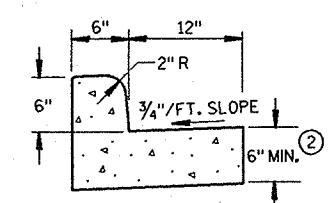


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

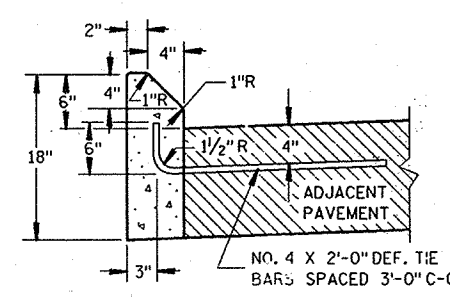


TYPES A & D

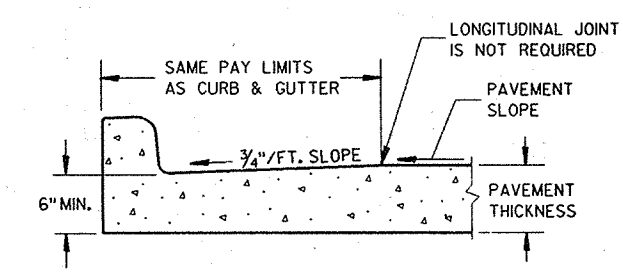
CONCRETE CURB



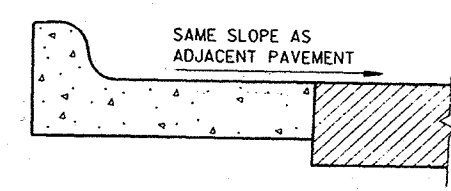
TYPES A & D
CONCRETE CURB & GUTTER 18"



TYPES G & J



PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEALANT IS NOT REQUIRED IN THE JOINTS OF CONCRETE CURB OR CONCRETE CURB & GUTTER EXCEPT AS REQUIRED FOR INTEGRAL GUTTER.

PAVEMENT TIES ARE REQUIRED, WHEN INCLUDED IN THE CONTRACT, WHERE CONCRETE CURB, CONCRETE CURB AND GUTTER OR CONCRETE PAVEMENT IS PLACED ADJACENT TO EXISTING CONCRETE.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE, TIE BARS AND A LONGITUDINAL CONSTRUCTION JOINT ARE NOT REQUIRED WITH THIS ALTERNATE.

PAVEMENT JOINTS SHALL BE EXTENDED THROUGH INTEGRAL CURB & GUTTER. JOINTS IN INTEGRAL GUTTER SHALL HAVE THE SAME DIMENSIONS AS THE JOINTS IN THE ADJACENT PAVEMENT. JOINTS IN INTEGRAL CURB SHALL BE 1/8" WIDE.

JOINTS IN INTEGRAL CURB & GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME SEALANT SPECIFIED FOR THE PAVEMENT JOINT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB & GUTTER.

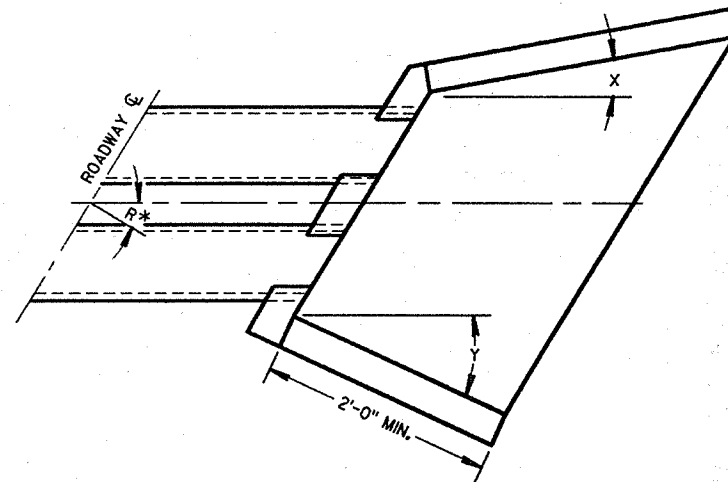
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE TWO FEET BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATIONS WILL BE SHOWN ELSEWHERE IN THE PLAN.

CONCRETE CURB, CONCRETE
CURB & GUTTER AND
PAVEMENT TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-23-86
DATE
STATE DESIGN ENGINEER FOR HWYS
FHWA



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

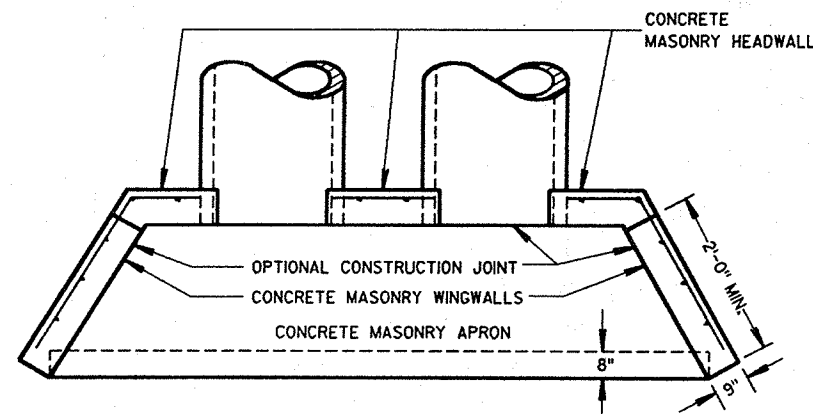
FILL SLOPES FLATTER THAN 2 1/2:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

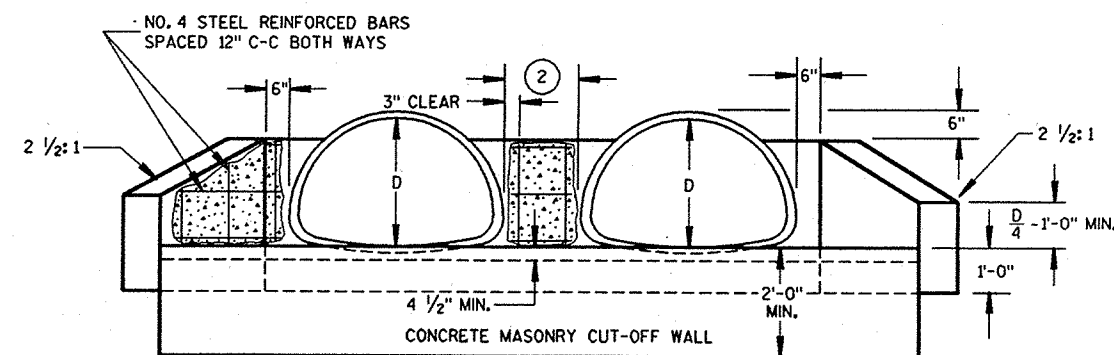
① MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

② THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

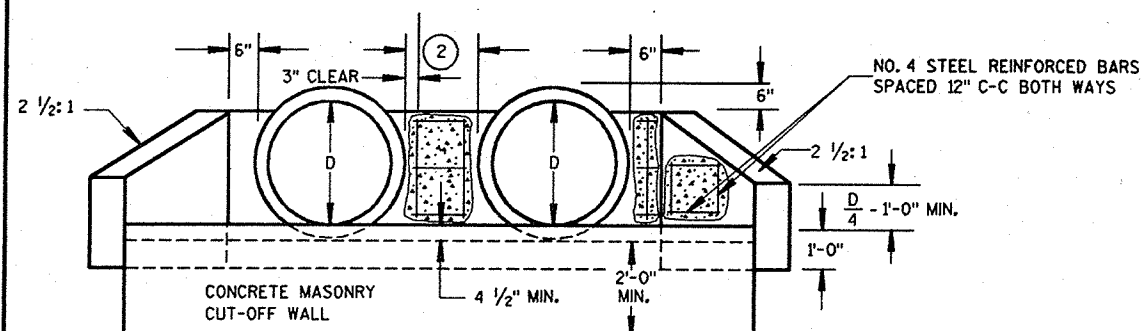
DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	1/2 DIA. OR SPAN
OVER 72"	3'-0"



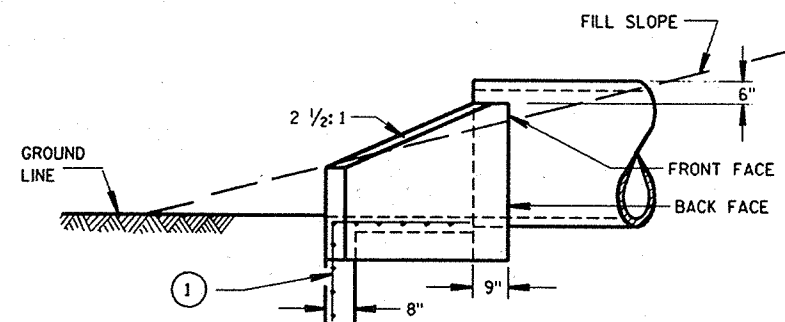
PLAN VIEW
CULVERT PIPE AND PIPE ARCH



END ELEVATION
PIPE ARCH



END ELEVATION
CULVERT PIPE



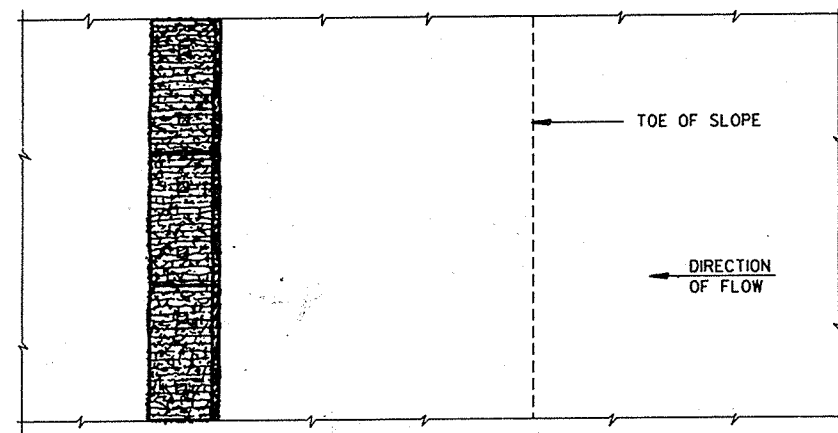
SIDE ELEVATION
CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH

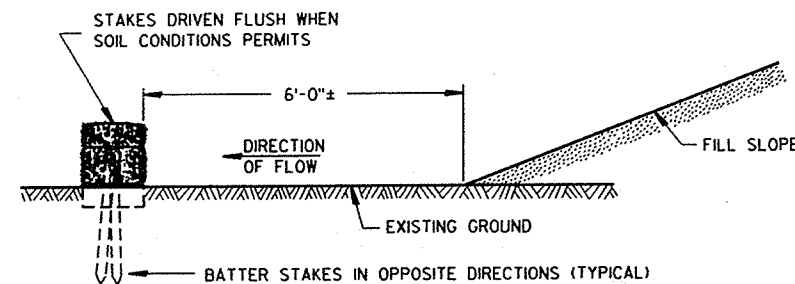
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/90
DATE
FHWA

STATE DESIGN ENGINEER FOR HWYS

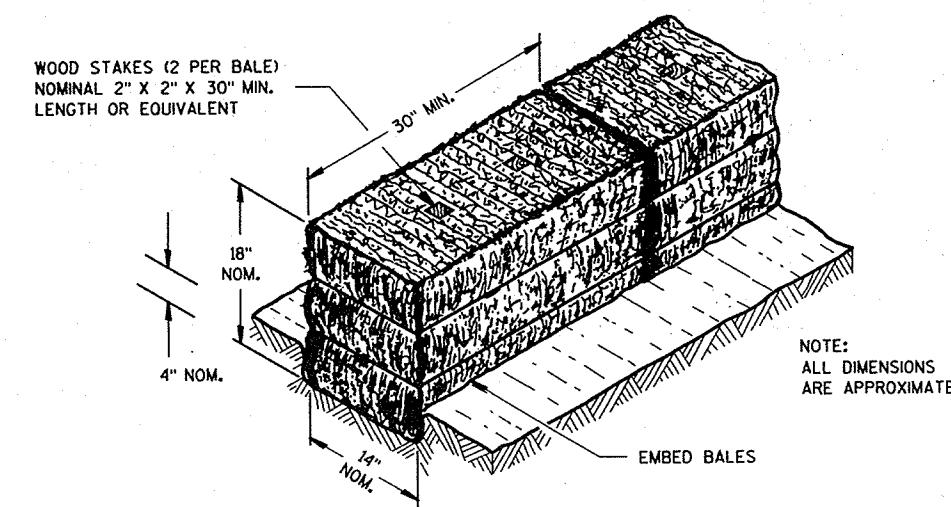


PLAN VIEW

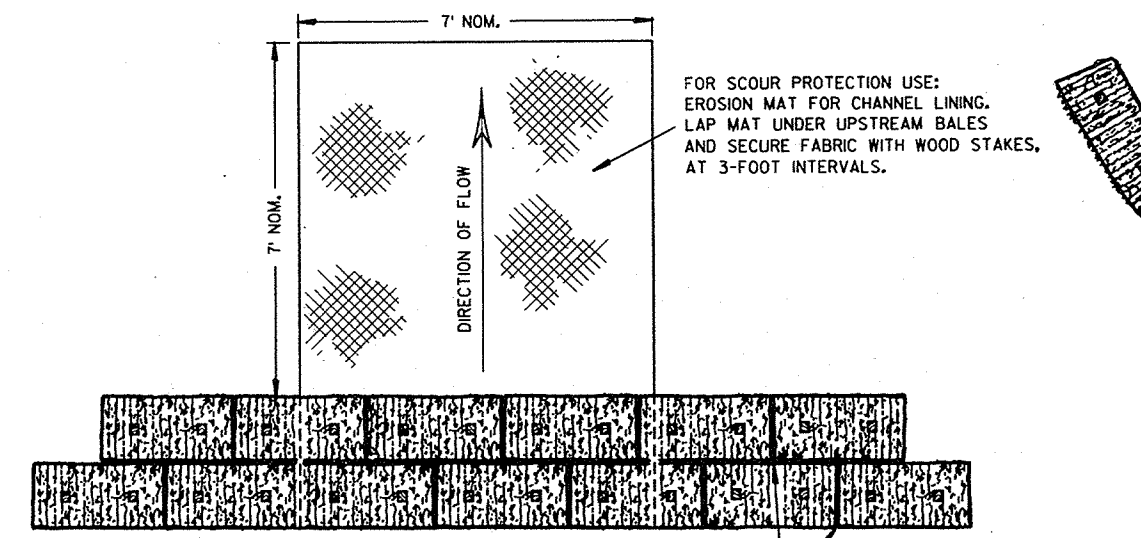


FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE
EROSION BALES FOR SHEET FLOW

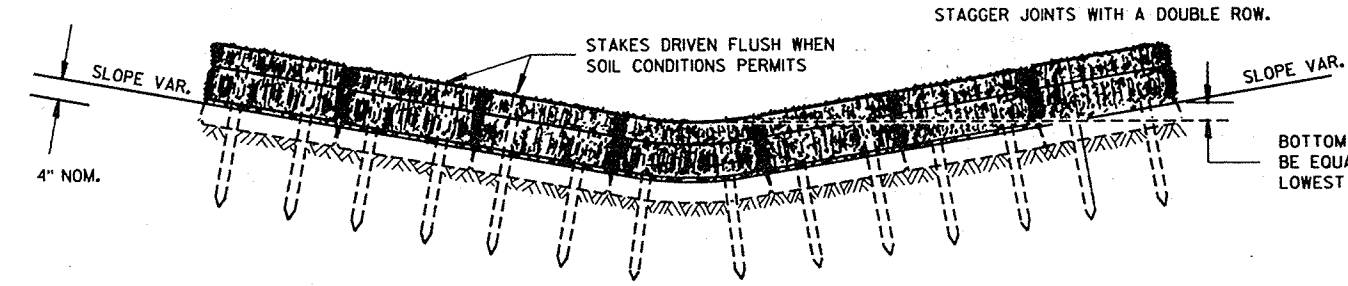


GENERAL NOTES
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



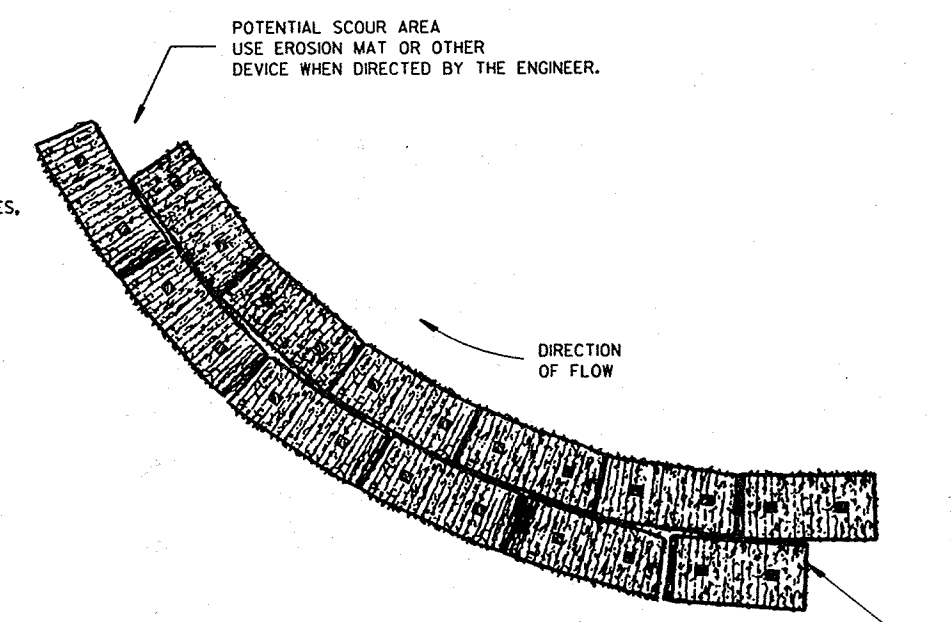
PLAN VIEW

STAGGER JOINTS BETWEEN ADJACENT ROWS OF BALES.



FRONT ELEVATION

EROSION BALES FOR CHANNEL FLOW

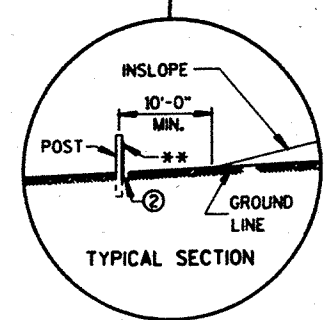
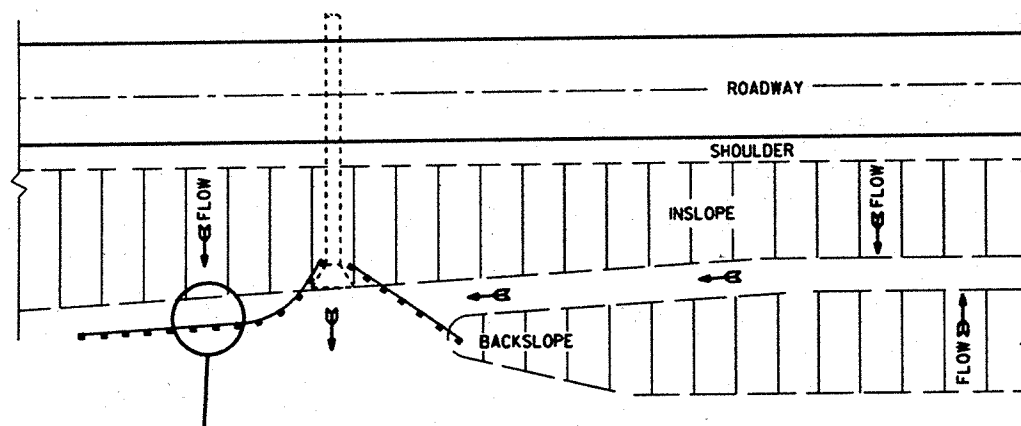


PLAN VIEW

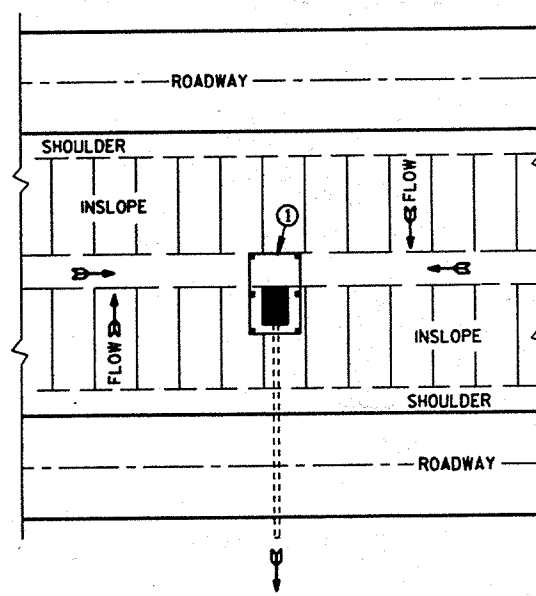
EROSION BALES WHEN ALTERING THE DIRECTION OF FLOW

END TREATMENT ON SLOPES TO BE SIMILAR TO CHANNEL FLOW DETAIL.

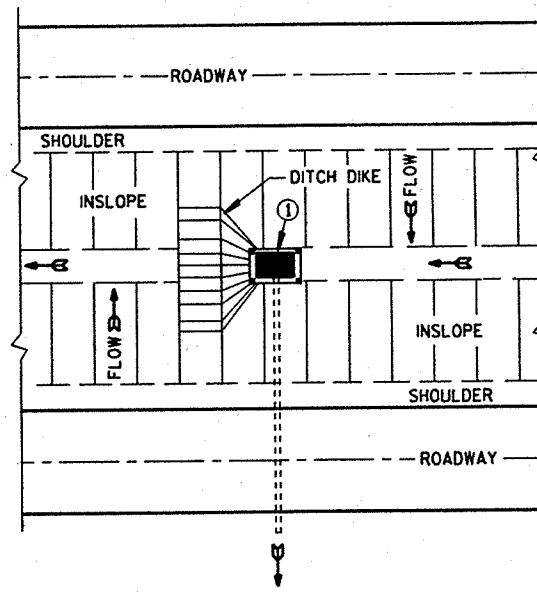
TYPICAL INSTALLATIONS OF EROSION BALES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4/29/94 DATE	_____ CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



PLAN VIEW
TYPICAL APPLICATIONS OF SILT FENCE



SITUATION 1



SITUATION 2

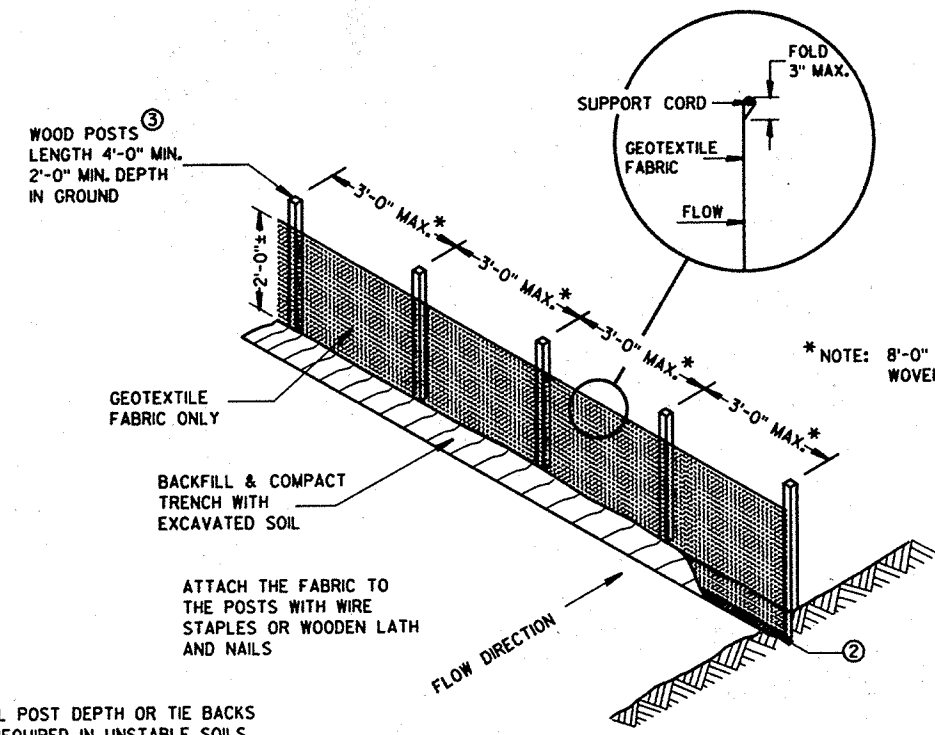
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

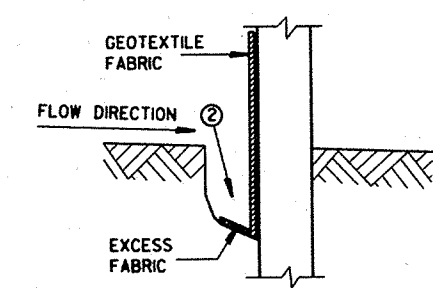
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
- ② TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1/6" X 1/8" OF OAK OR HICKORY.

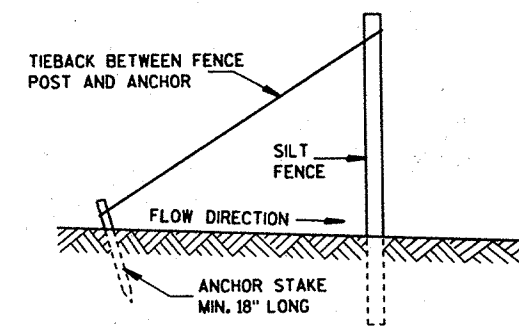


NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

SILT FENCE
(NON-REINFORCED)

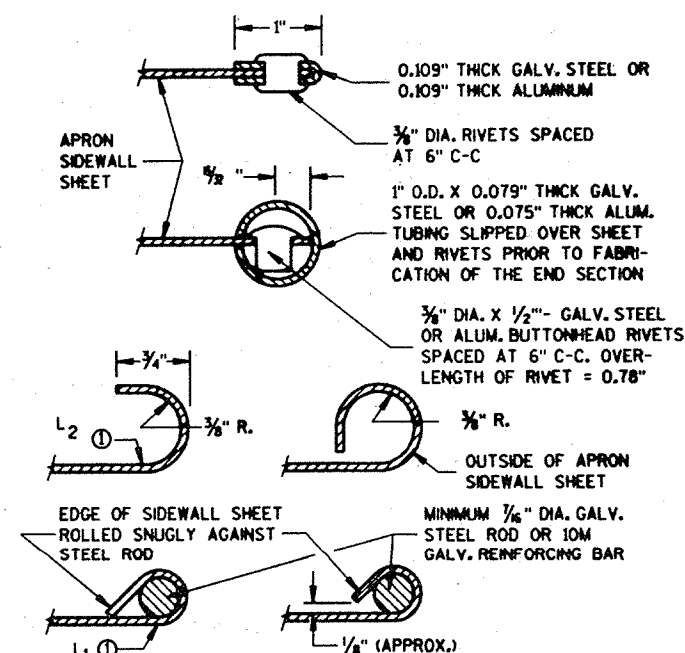
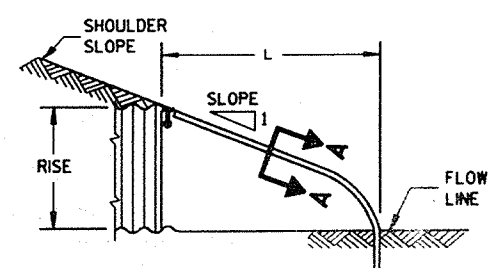
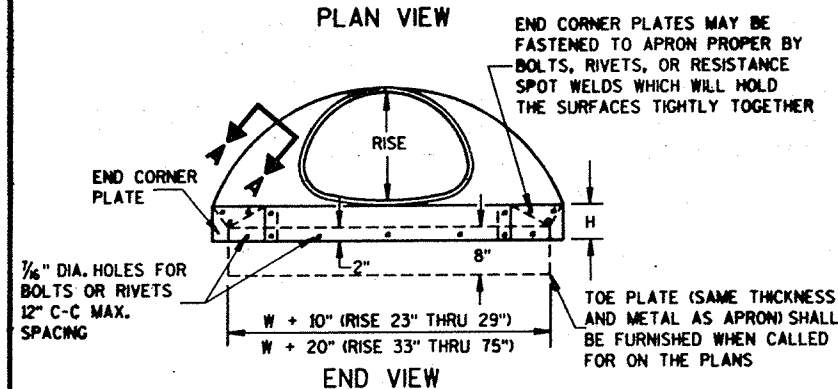
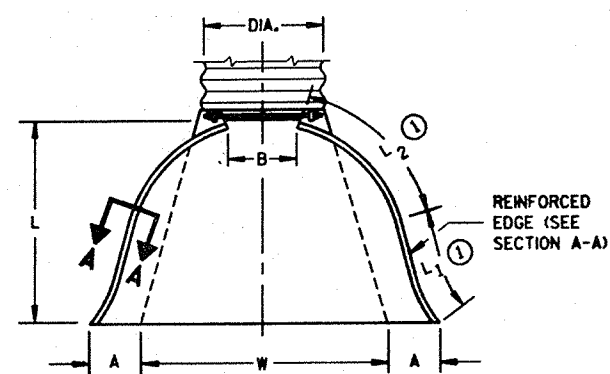


TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	<i>[Signature]</i>
DATE	CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



3" X 1" CORRUGATIONS													
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BOD
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L ₁ ⊙	L ₂ ⊙	W (±2")		
48	53	41	.109	.105	18	26	12	63	24	72 3/4	90	2 1/2 to 1	2 P
54	60	46	.109	.105	18	30	12	70	30	82 1/4	102	2 to 1	2 P
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1 1/2 to 1	3 P
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1 1/2 to 1	3 P
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 P
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1 1/2 to 1	3 P
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1 1/2 to 1	3 P
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1 1/2 to 1	3 P
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1 1/2 to 1	3 P

* EXCEPT CENTER PANEL
SEE GENERAL NOTES

REINFORCED CONCRETE ELLIPTICAL PIPE									
EQUIV. DIA. (Inches)	DIMENSIONS (Inches)							APPROX. SLOPE	
	** SPAN	** RISE	T	A	B	C	D		E
24	30	19	3 1/4	8 1/2	39	33	72	48	3 to 4
30	38	24	3 3/4	9 1/2	54	18	72	60	3 to 4
36	45	29	4 1/2	11 1/8	60	24	84	72	2 1/2 to 3
42	53	34	5	15 3/4	60	36	96	78	2 1/2 to 3
48	60	38	5 1/2	21	60	36	96	84	2 1/2 to 3
54	68	43	6	25 1/2	60	36	96	90	2 1/2 to 3
60	76	48	6 1/2	30	60	36	96	96	2 1/2 to 3

****NOMINAL SIZE**

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

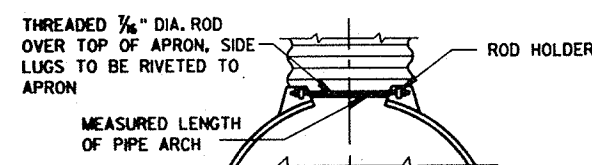
CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

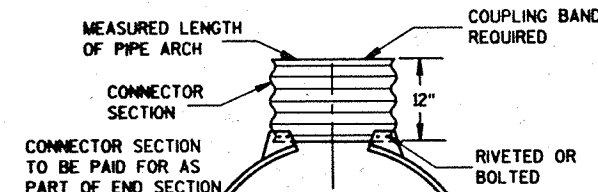
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



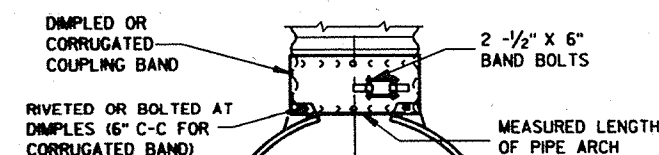
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:
ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL,
AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

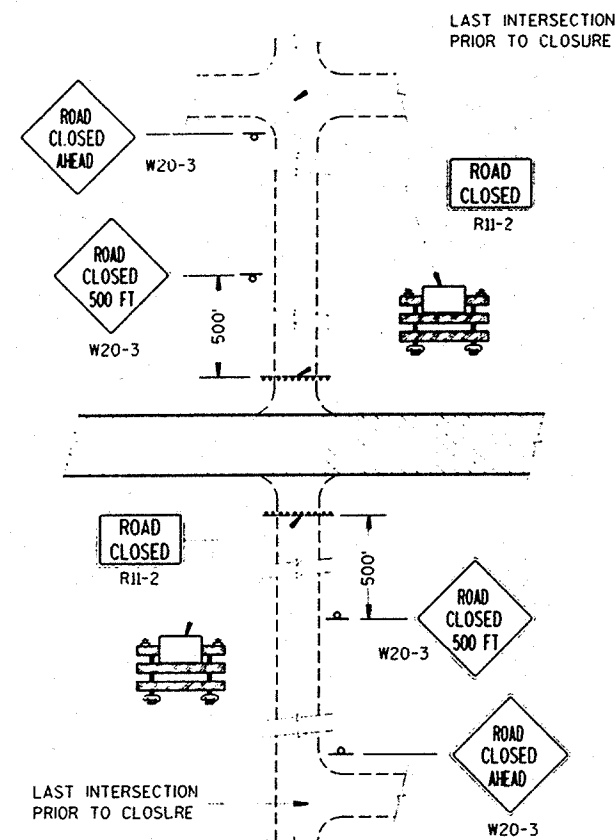
APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

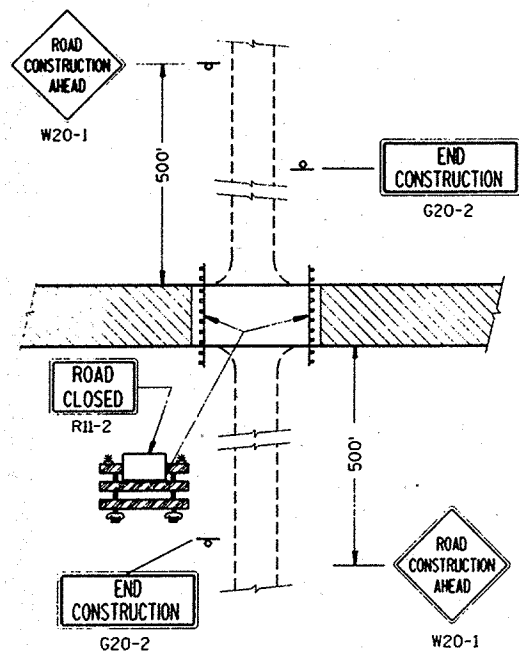
APPROVED
11/30/94
DATE


CHIEF ROADWAY DEVELOPMENT ENGINEER

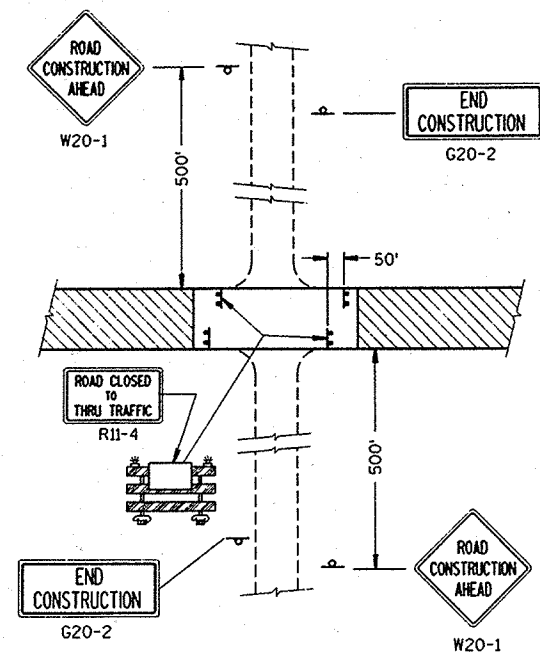
ENWA



DETAIL 1
(NO ACCESS TO PROJECT)

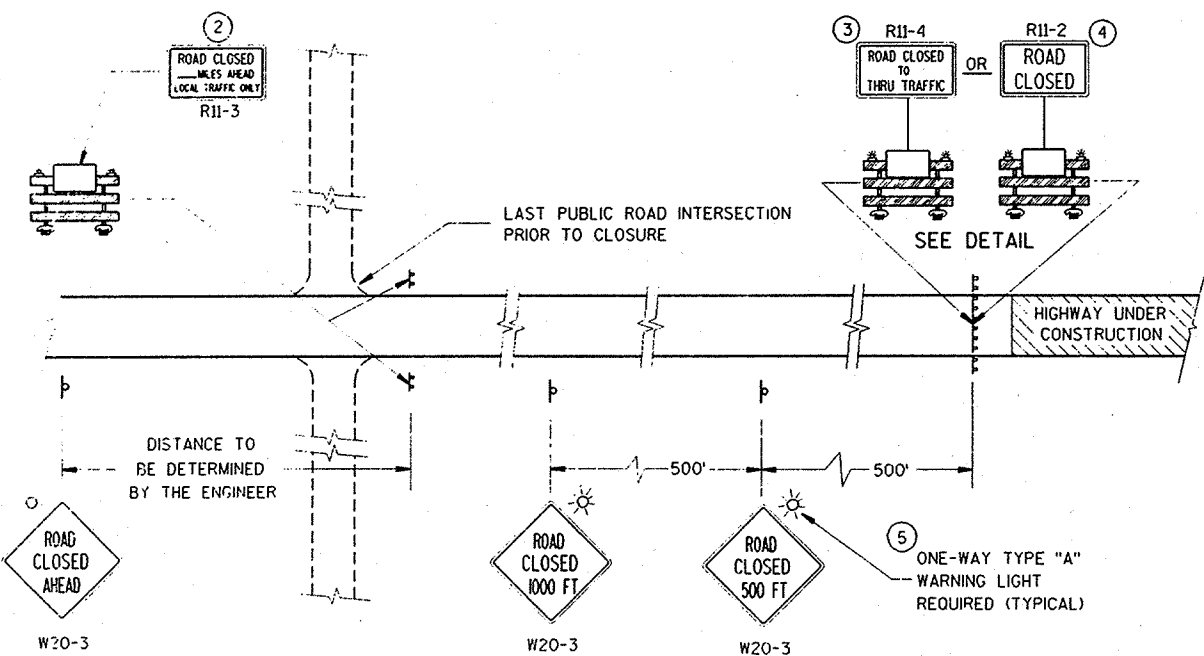


DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).

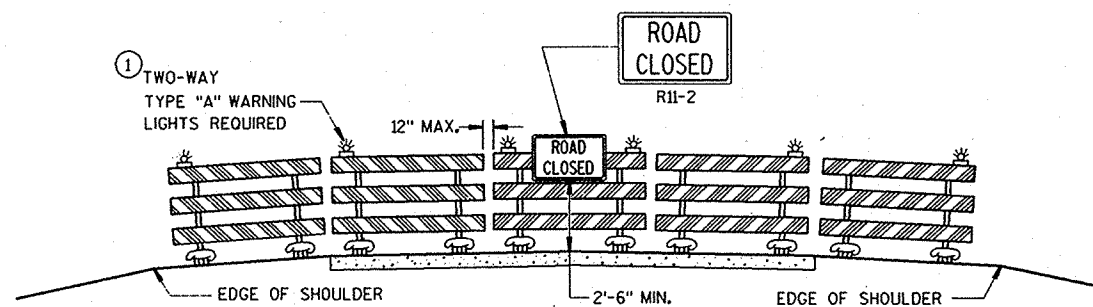


DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).

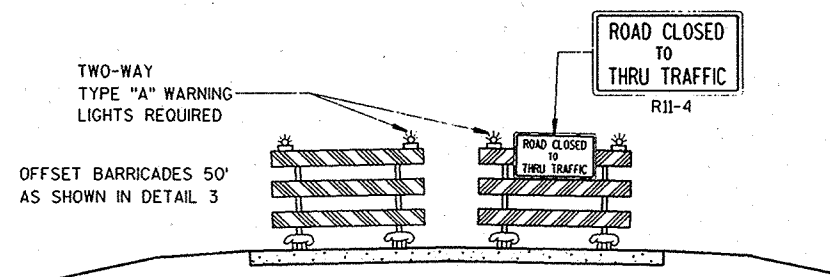
SIDEROAD CLOSURES



MAINLINE CLOSURE



ROAD CLOSURE BARRICADE DETAIL



LANE CLOSURE BARRICADE DETAIL

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND THEIR LOCATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE WISCONSIN MANUAL OF TRAFFIC CONTROL DEVICES, THE PLANS, SPECIFICATIONS AND CONTRACT.

SIGN AND BARRICADE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER. ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER. ALL "STOP" OR OTHER REGULATORY SIGNS ON THE SIDE ROADS SHALL NOT BE DISTURBED, EXCEPT WHEN NECESSARY TO COMPLETE THE WORK. THE SIGNS MUST THEN BE IMMEDIATELY REESTABLISHED.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL FOR FULL ROAD CLOSURES. TYPE "A" LOW INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE ROAD CLOSED SIGN (R11-2), ROAD CLOSED — MILES AHEAD SIGN (R11-3) AND THE ROAD CLOSED TO THRU TRAFFIC SIGN (R11-4) SHALL BE ATTACHED ONLY TO THE TOP RAIL OF THE TYPE III BARRICADE. THE SIGNS SHALL NOT COVER MIDDLE RAIL.

TYPE "H" REFLECTIVE SHEETING SHALL BE USED ON ALL BARRICADES, TYPE I, II AND III, AND ON ALL R11-2, R11-3 AND R11-4 SIGNS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2, "ROAD CLOSED" SIGNS SHALL BE 48" X 30".

R11-3, AND R11-4 SIGNS SHALL BE 60" X 30".

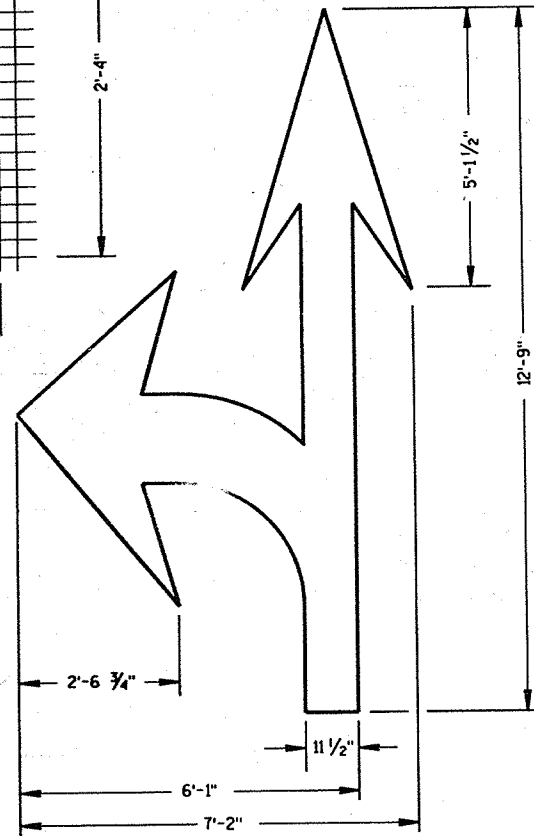
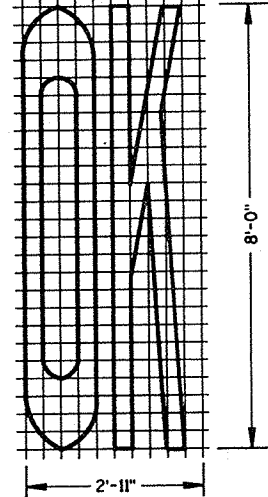
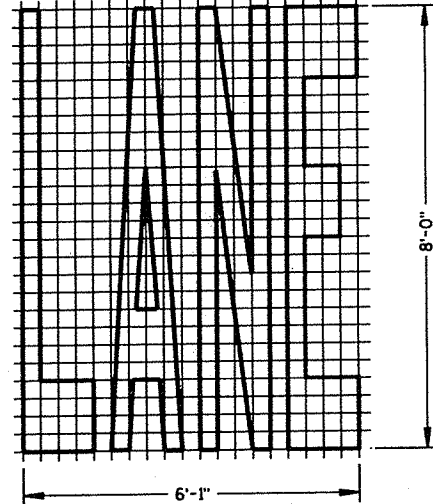
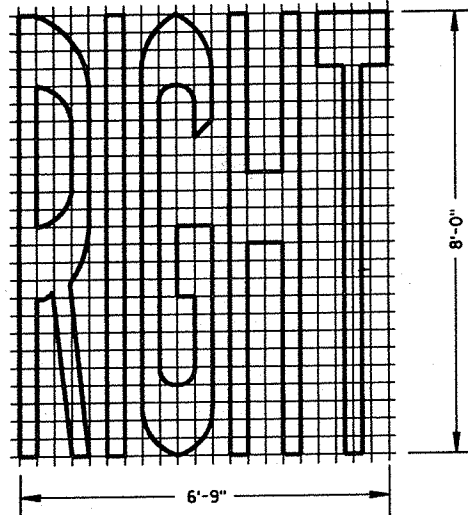
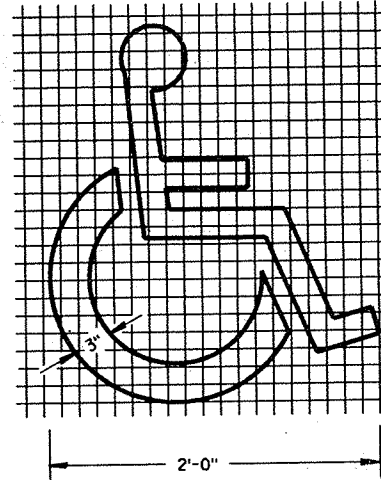
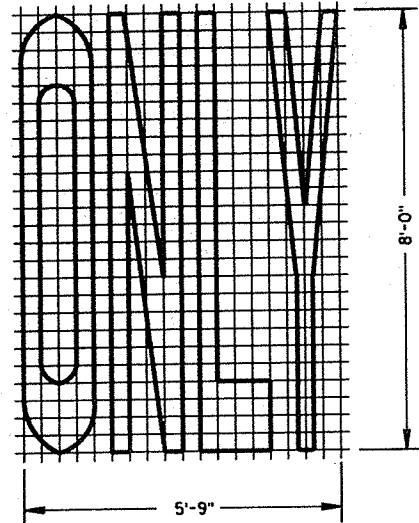
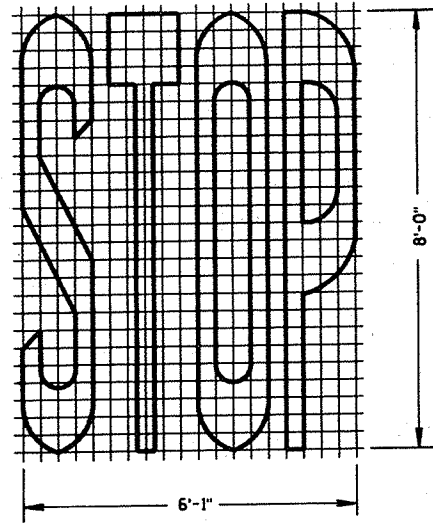
G20-2 SIGNS SHALL BE 60" X 24".

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND AT LEAST ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN.
- 2 THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- 3 FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT. SEE LANE CLOSURE BARRICADE DETAIL.
- 4 FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT. SEE ROAD CLOSURE BARRICADE DETAIL.
- 5 ONE-WAY LIGHTS SHALL BE PROVIDED ON ALL ADVANCE WARNING SIGNS. THE UNIT SHALL BE POSITIONED SUCH THAT THE LIGHT SOURCE IS OUTSIDE THE SIGN FACE AND AT THE TOP OF THE SIGN.

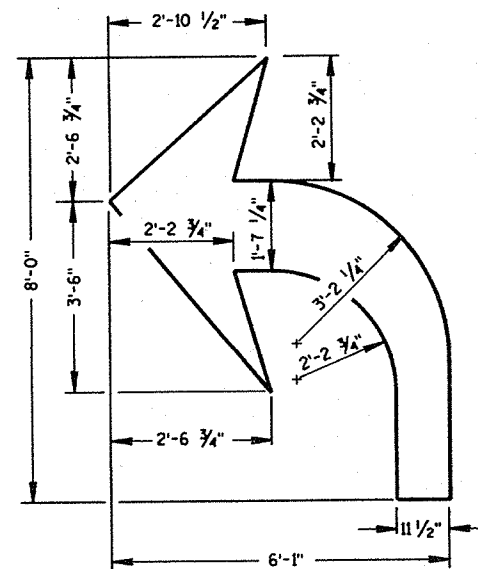
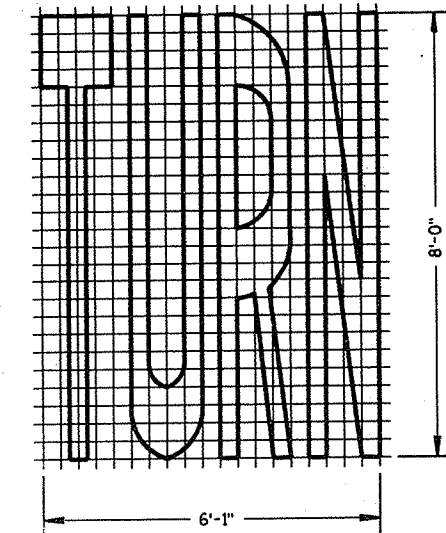
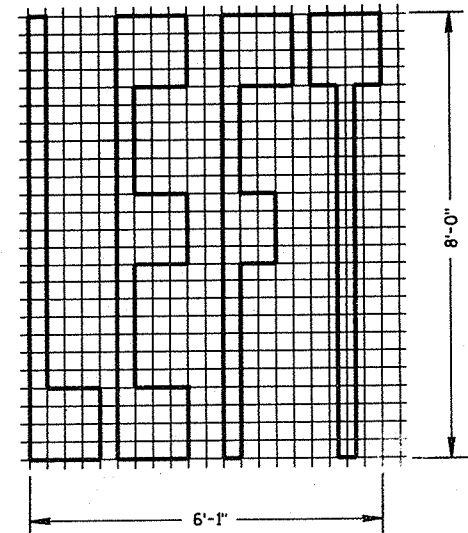
LEGEND

- POST MOUNTED WARNING SIGN
- TYPE III BARRICADES WITH TYPE "H" REFLECTIVE SHEETING
- TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK AREA

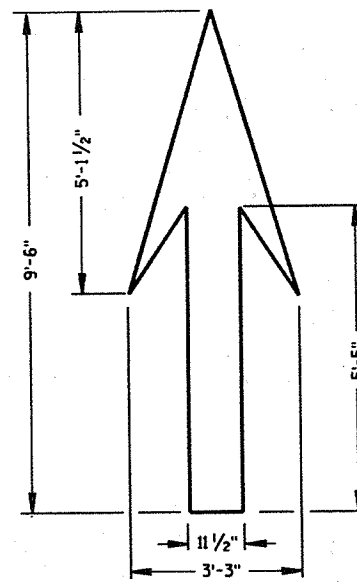
BARRICADES AND TRAFFIC CONTROL FOR ROAD CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10-31-89 DATE	STATE TRAFFIC ENGINEER FOR HWYS
FHWA	



TYPE 3



TYPE 2



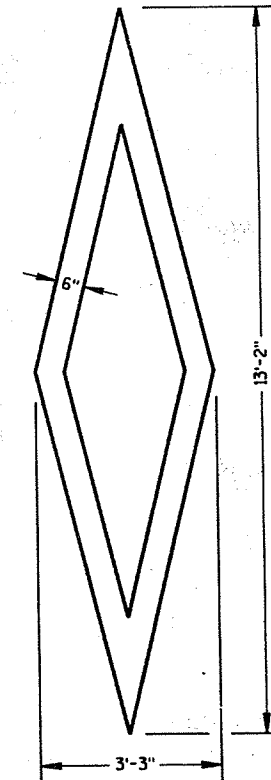
TYPE 1

GENERAL NOTES

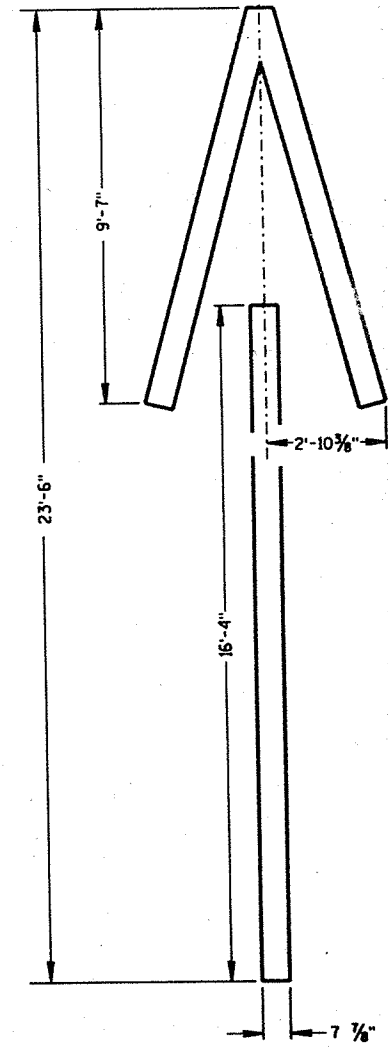
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

ALL LETTERS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED.

A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.



PREFERENTIAL
LANE SYMBOL



TYPE 4

PAVEMENT MARKING SYMBOLS

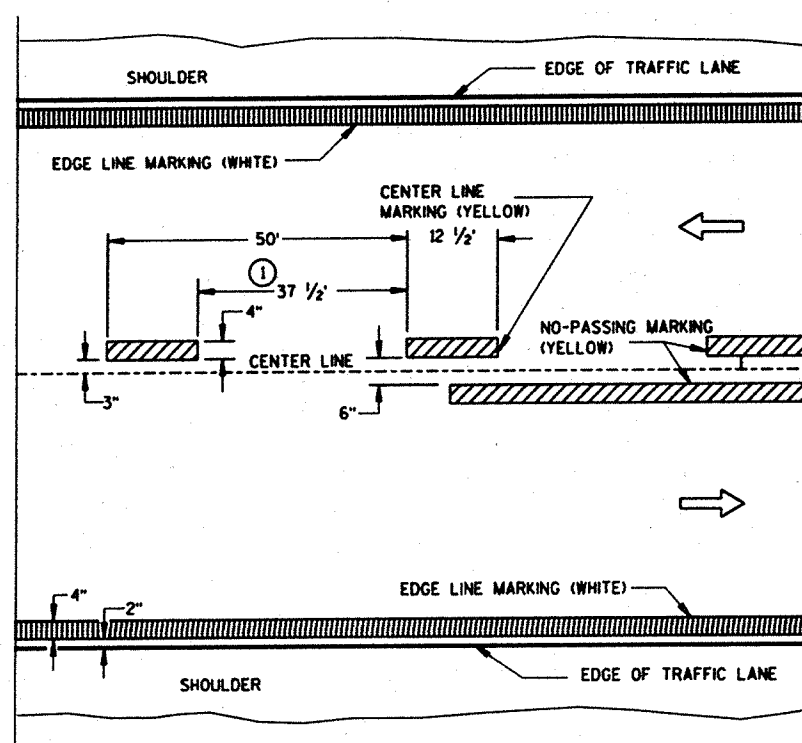
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

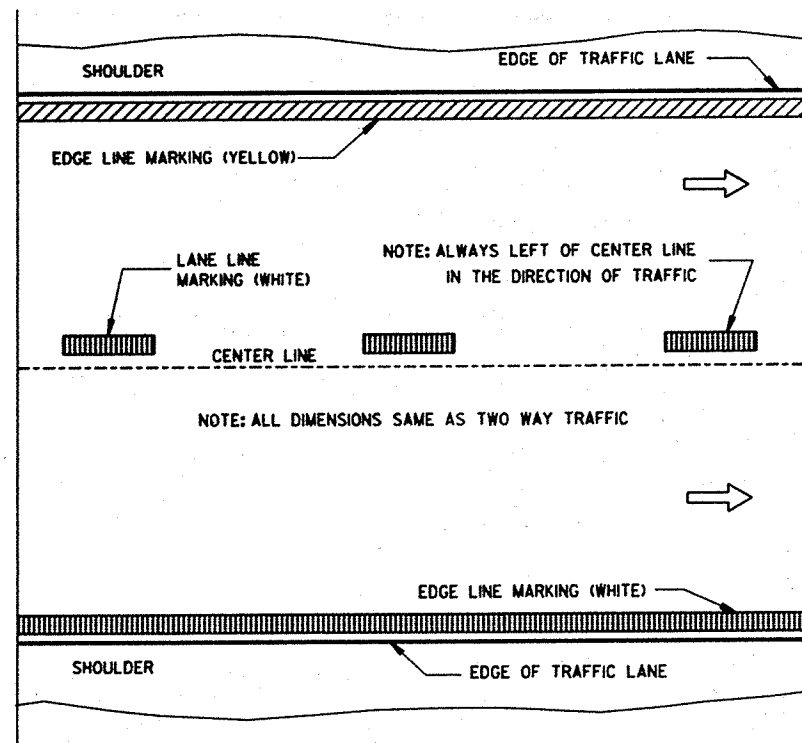
6-29-94
DATE

FHWA

Christie J. Spang
STATE TRAFFIC ENGINEER FOR HWYS

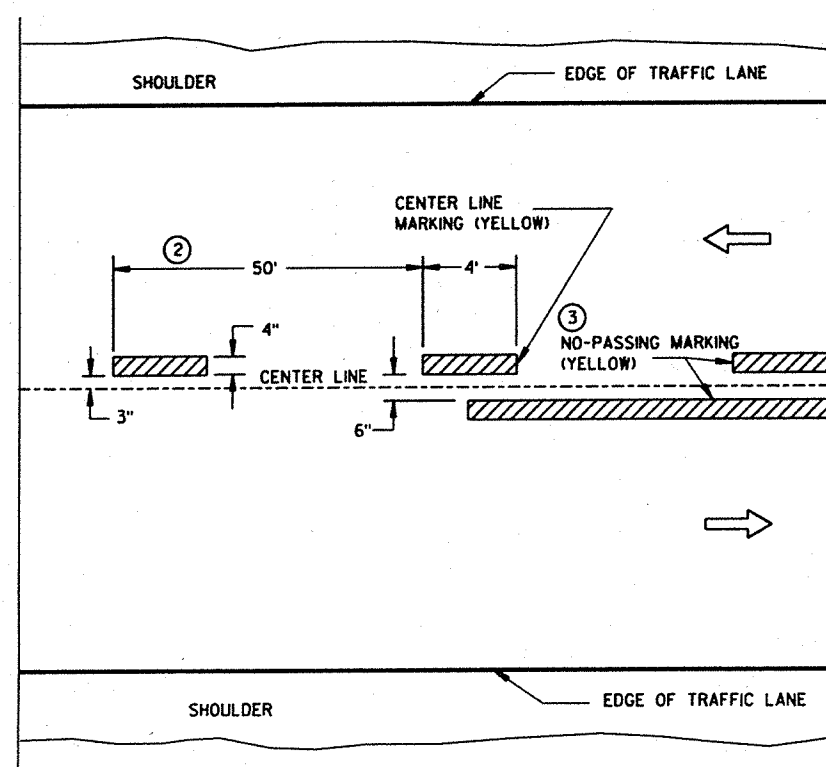


TWO WAY TRAFFIC

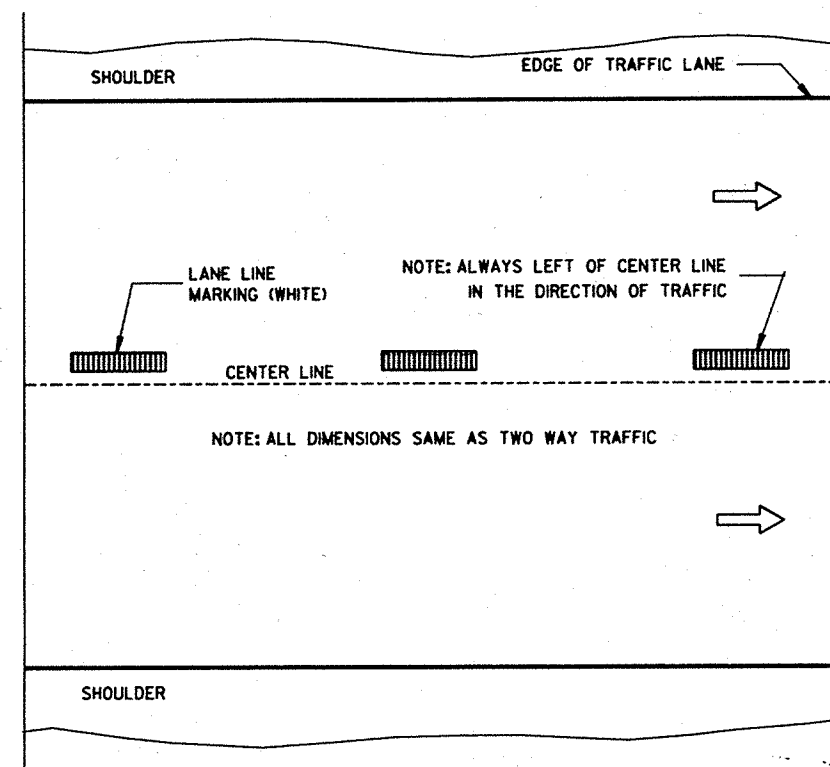


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING (SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① CENTER LINE/LANE LINE MARKINGS SHALL BE 37 1/2 FEET BETWEEN DASHES THROUGHOUT THE PROJECT, INCLUDING THE STARTING OR ENDING GAP FROM THE EXISTING CENTER LINE/LANE LINE MARKING.
- ② HALF CYCLE LENGTHS (25') WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ③ NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/18/94
DATE

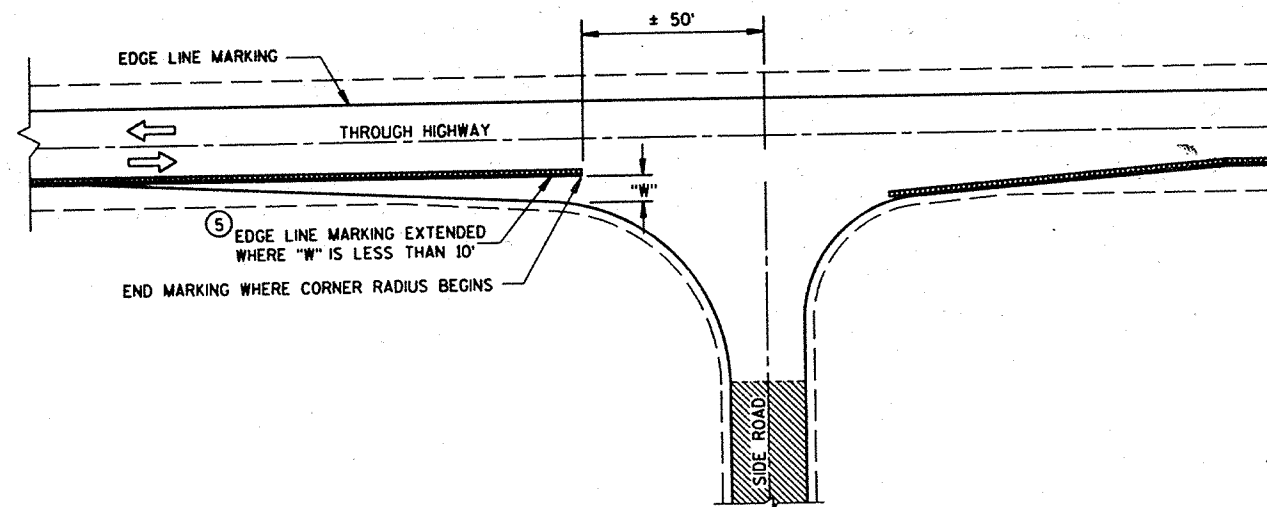
Robert R. Burch
DIRECTOR, OFFICE OF TRAFFIC

FHWA

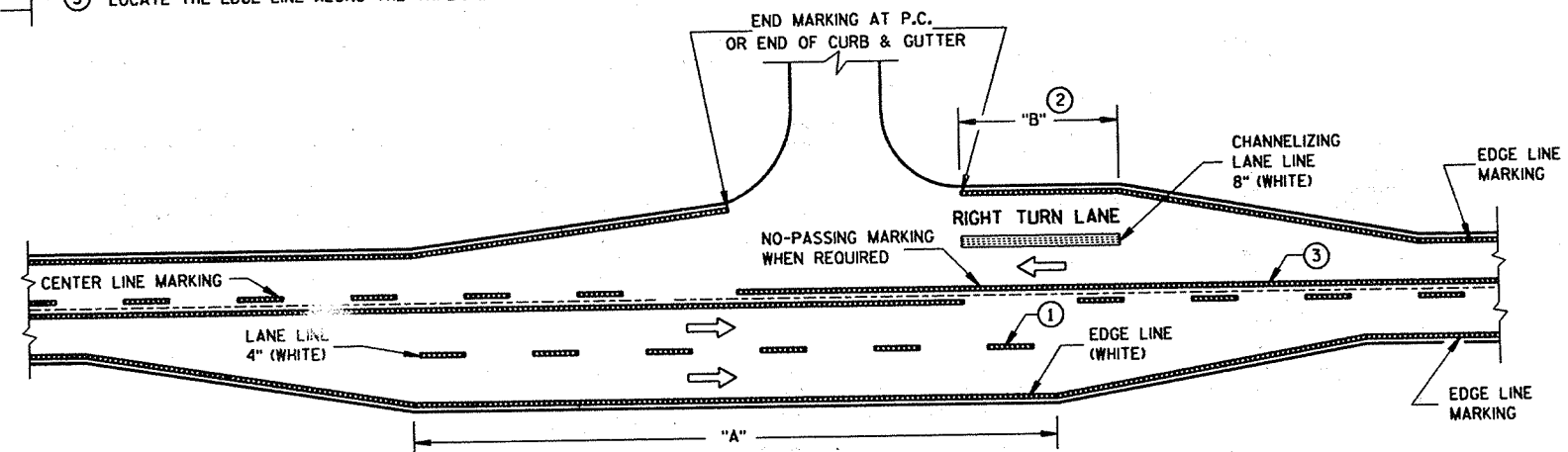
NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

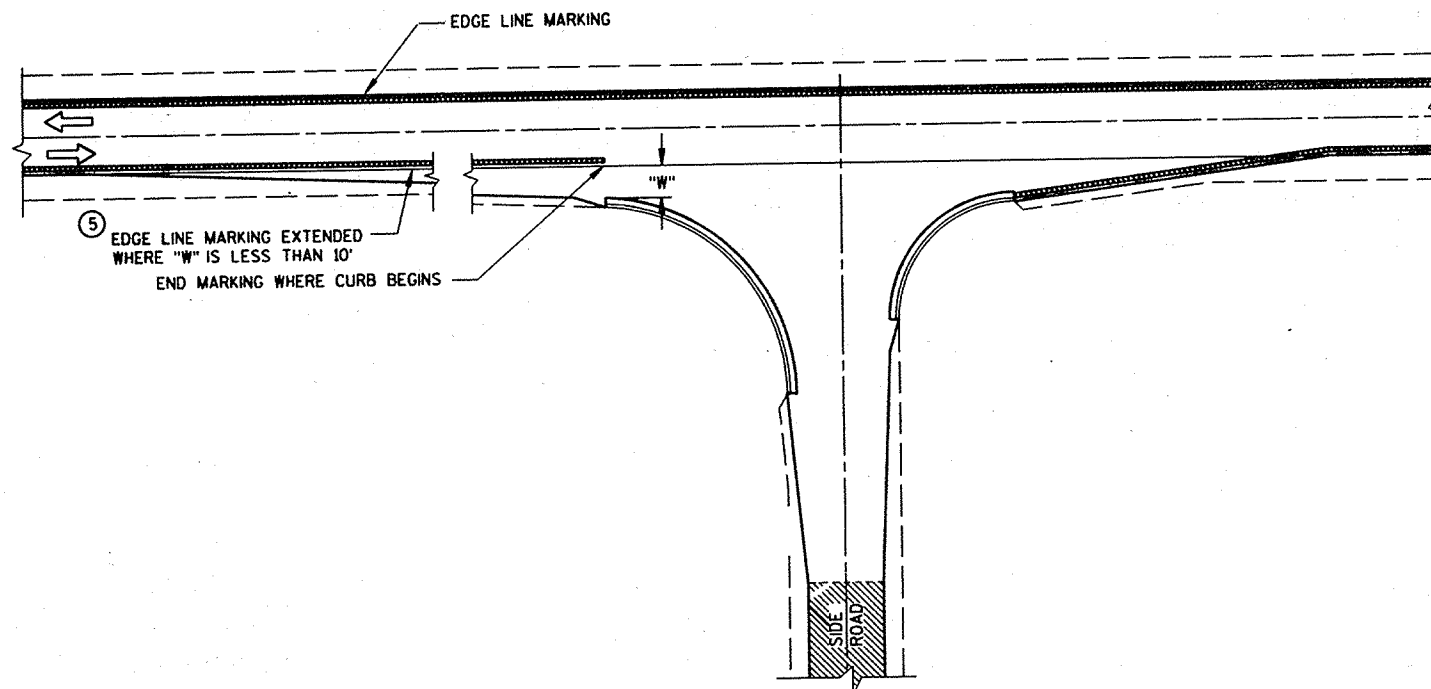
- 1 WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- 2 WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- 3 NO-PASSING MARKING SHALL BE PROVIDED WHERE SIGHT DISTANCE IS DEFICIENT. THE LENGTH OF NO-PASSING MARKING SHALL BE 500 FEET MINIMUM.
- 4 ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
- 5 LOCATE THE EDGE LINE ALONG THE TAPER WHERE "W" IS 10' OR MORE.



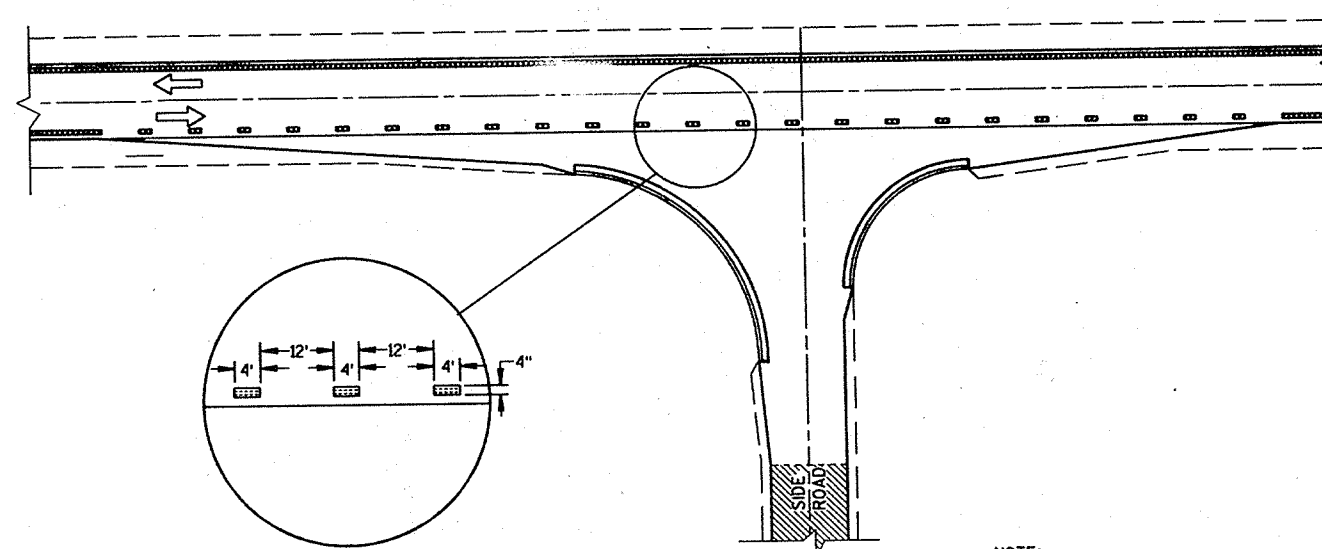
MINOR INTERSECTION WITHOUT CURBS



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
④ (FOR SPECIAL CONDITIONS AS SPECIFIED)

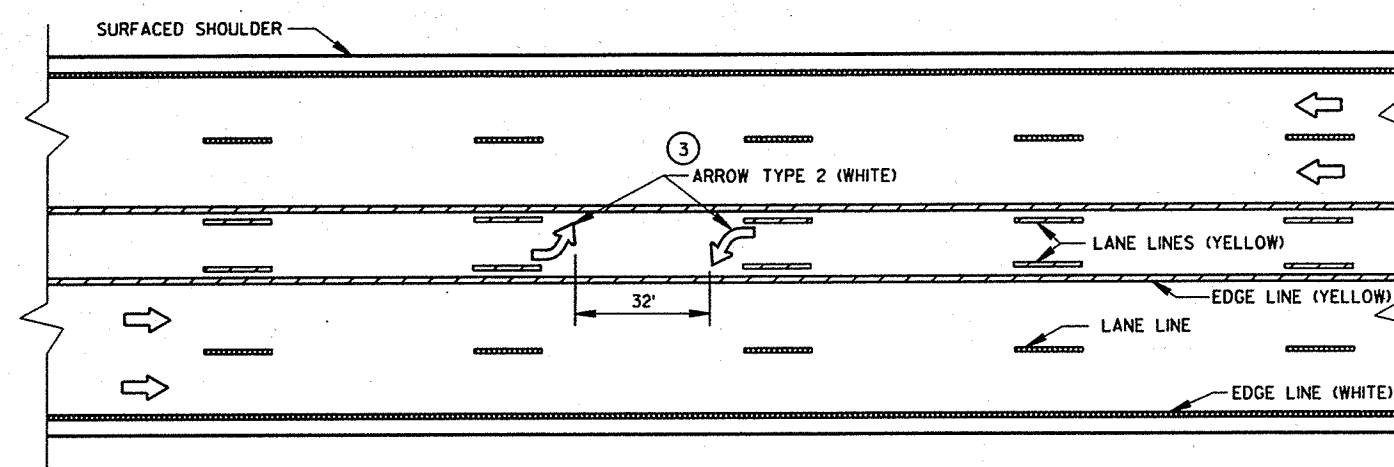
NOTE:
SDD 15 C 8-6a IS REQUIRED WHEN THIS DRAWING
IS CALLED FOR IN THE PLANS.

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 15 C 8-6b

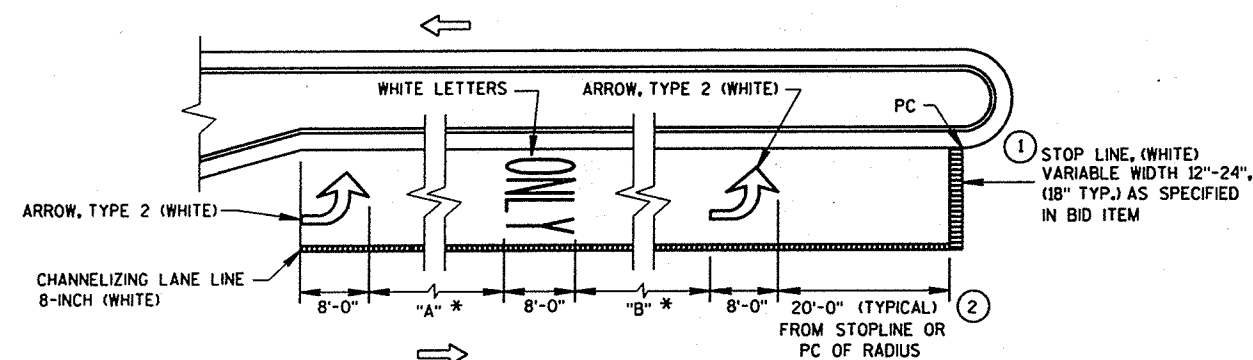
NOTE:
ARROW SYMBOL (→)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

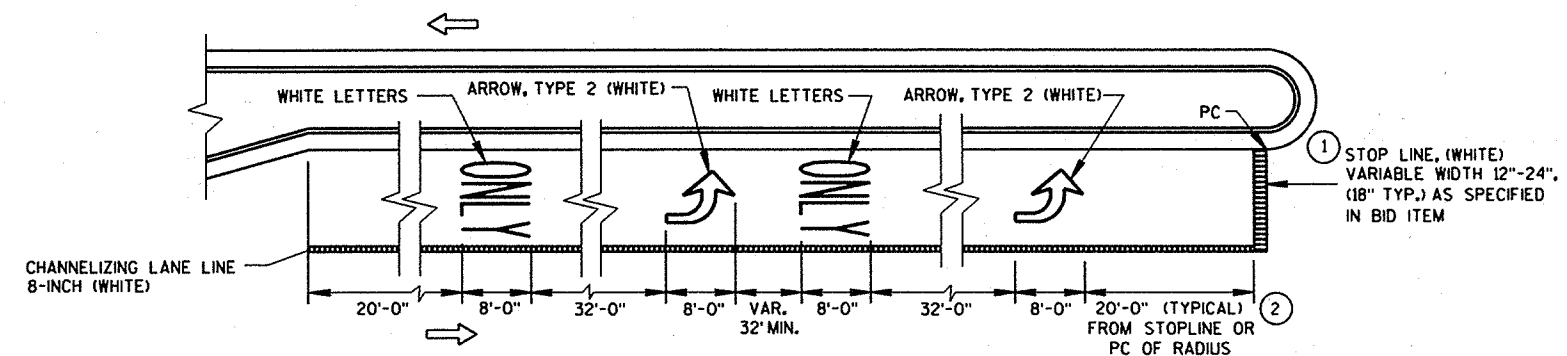
NOTES:

- ① STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DISTANCE MAY BE ADJUSTED TO ACCOMMODATE SHORT LEFT TURN LANES, AS APPROVED BY THE ENGINEER.
- ③ A SET OF ARROWS IS REQUIRED EVERY 400' OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

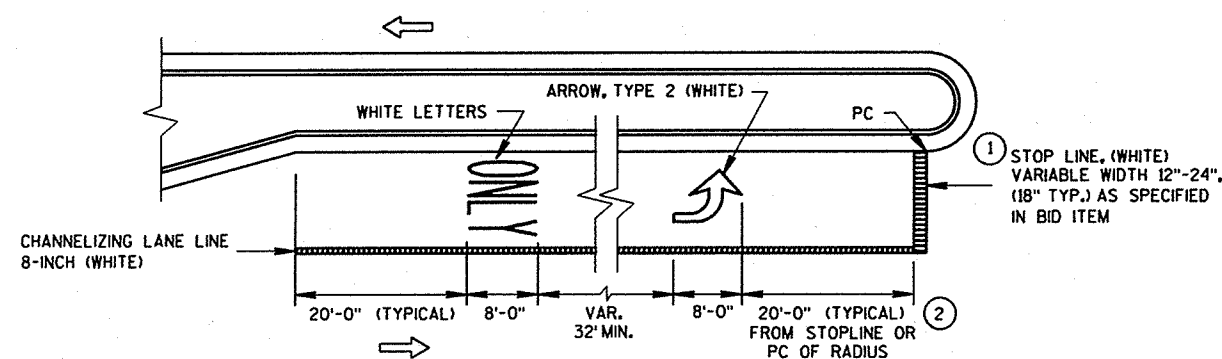


* VARIABLE, 32' MIN.
"A" = "B" (TYPICAL)

LEFT TURN LANE
(LENGTH 108' TO 167')



LEFT TURN LANE
(LENGTH OVER 167')

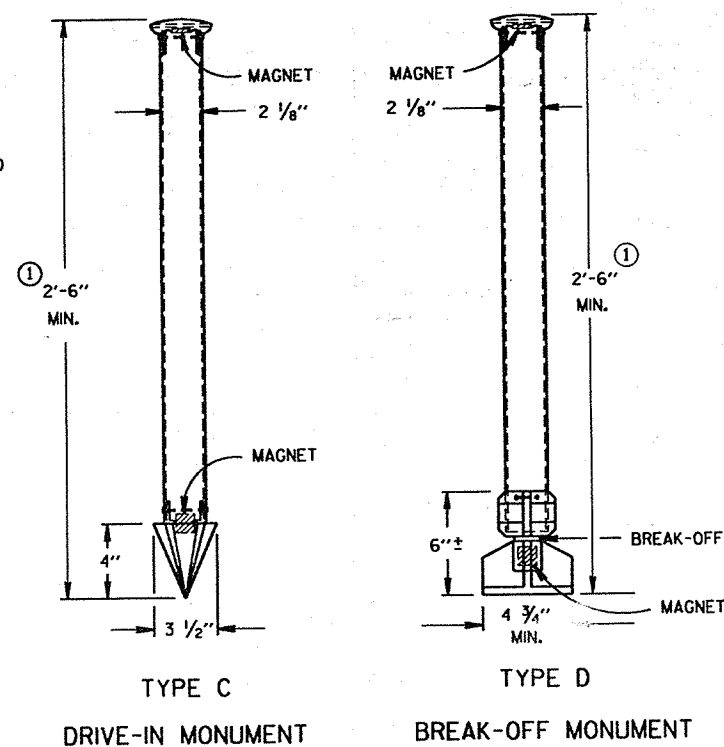
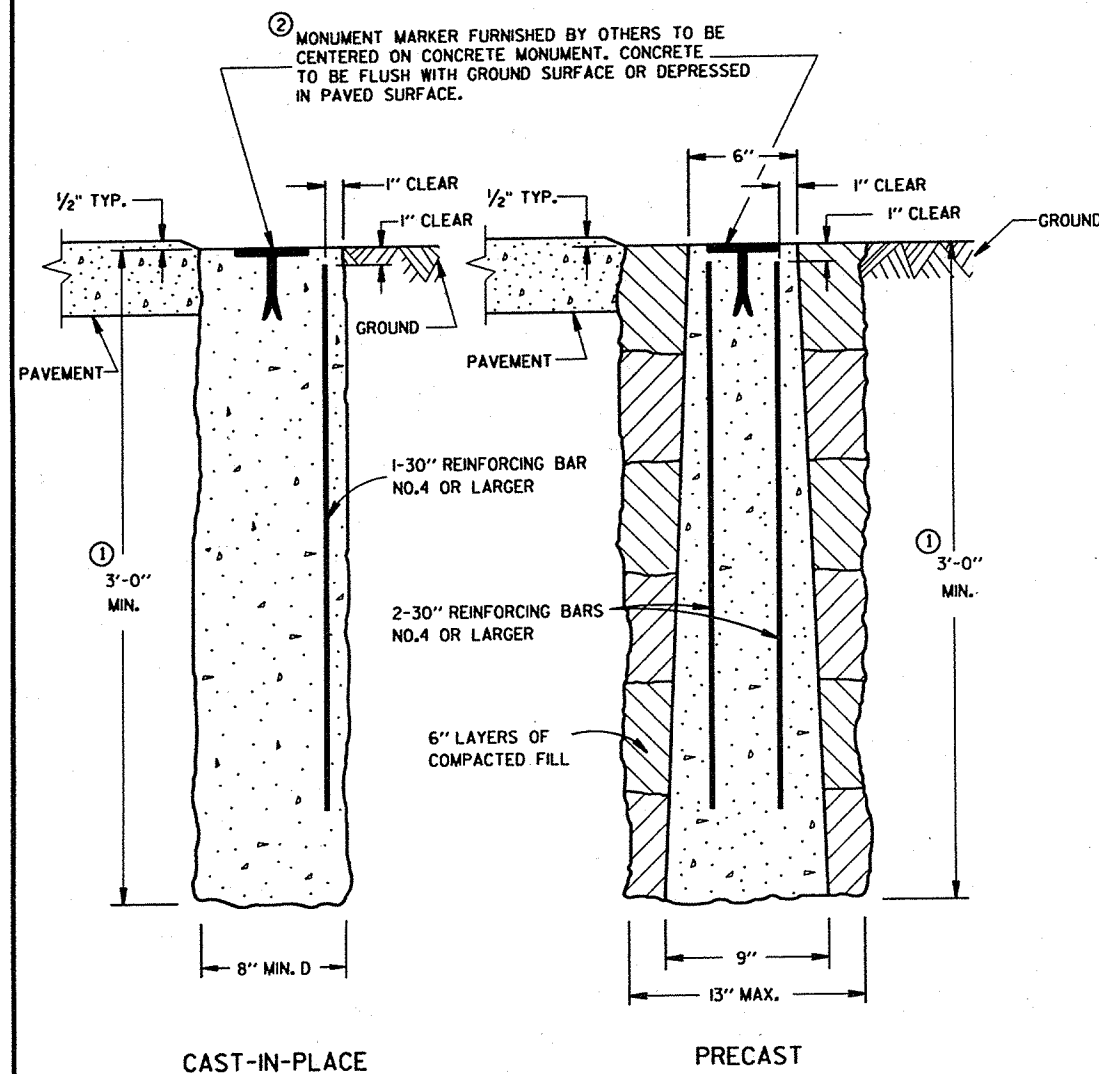


LEFT TURN LANE
(LENGTH UNDER 108')

NOTE:
SDD 15 C 8-6a AND SDD 15 C 7-1 IS REQUIRED
WHEN THIS DRAWING IS CALLED FOR IN THE PLANS.

PAVEMENT MARKING
(LEFT TURN LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

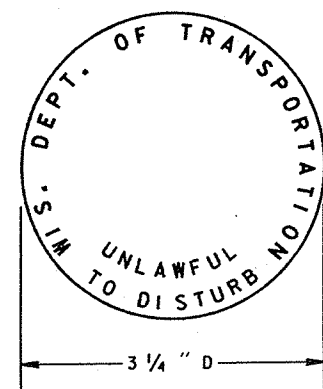
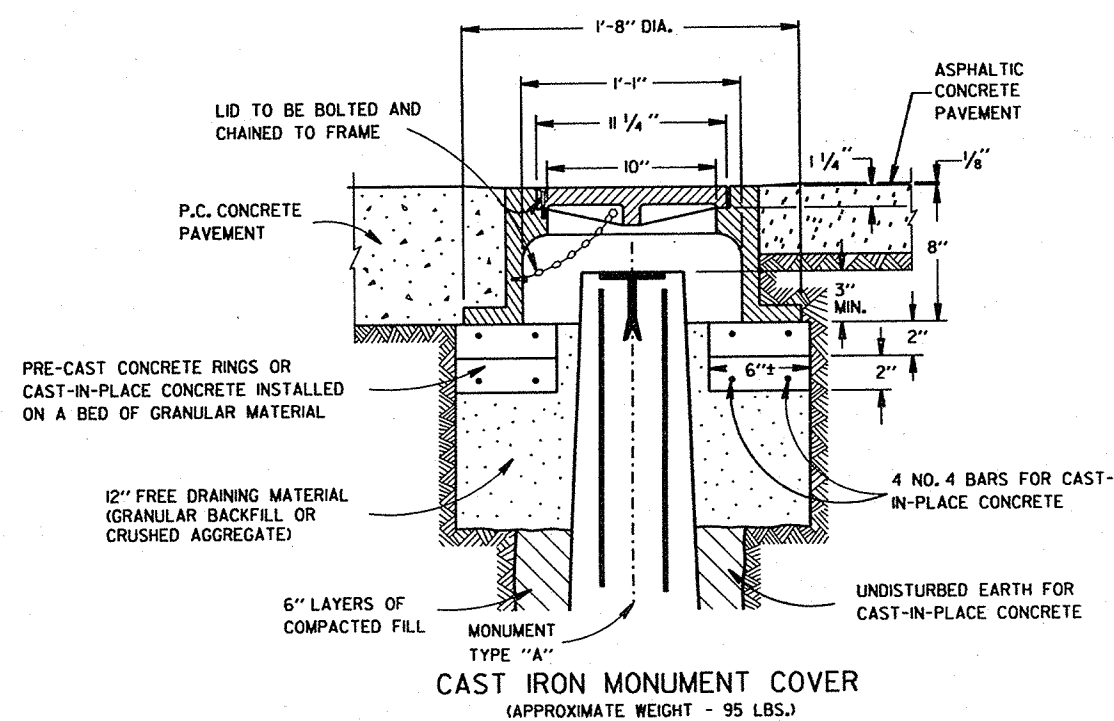
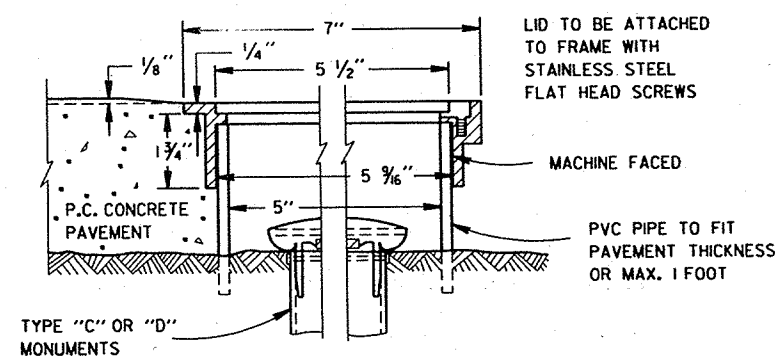
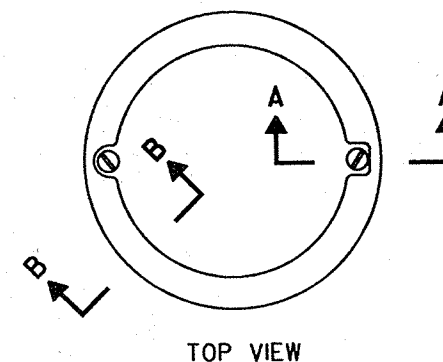
MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

- ① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.
- ② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



② WIS DOT MONUMENT MARKER LOGO
FOR TYPES "A", "C" & "D"

LANDMARK REFERENCE
MONUMENTS AND COVERS

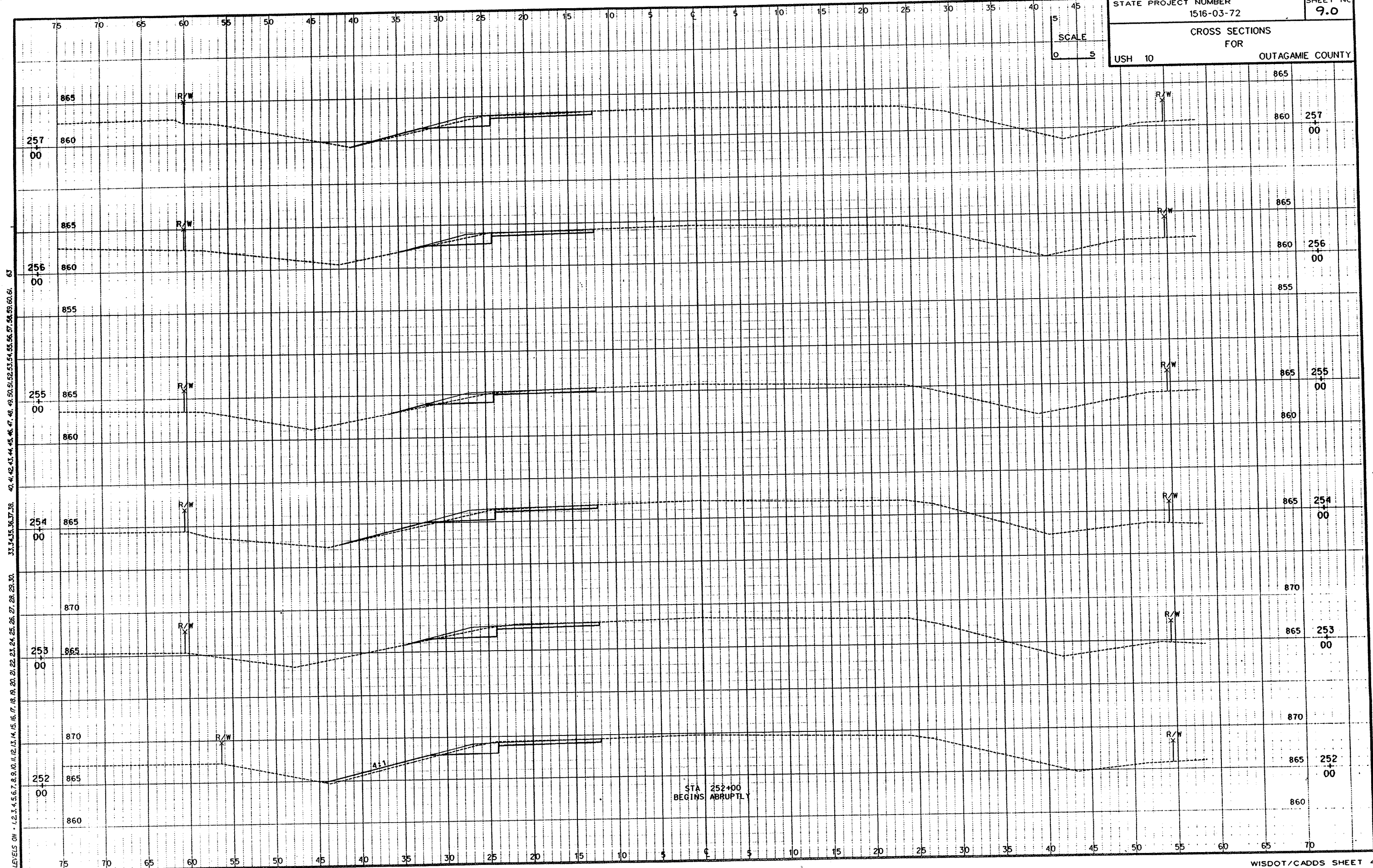
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/31/92
DATE

FWA

STATE DESIGN ENGINEER FOR HWYS



STATE PROJECT NUMBER
1516-03-72

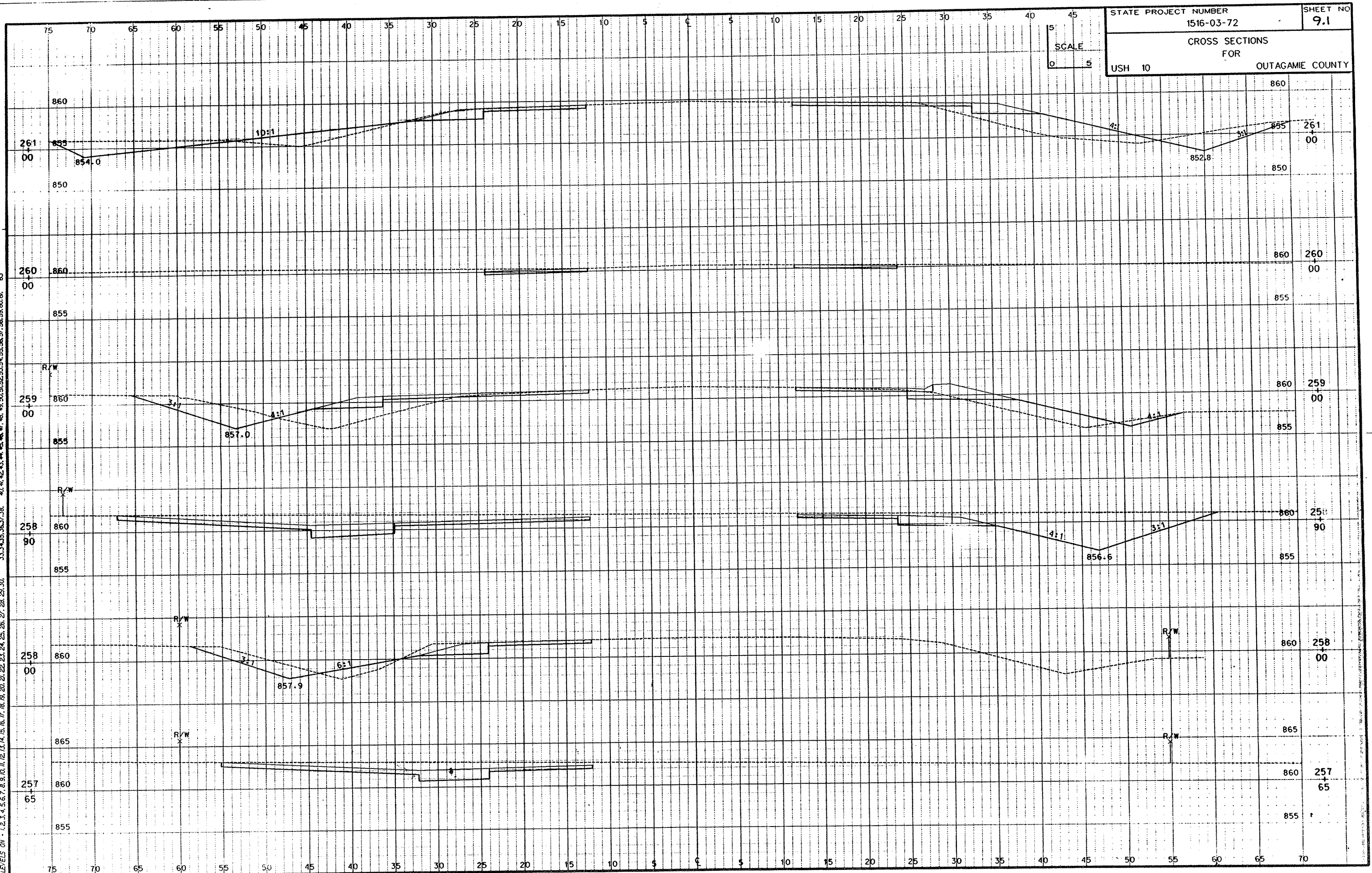
SHEET NO.
9.0

CROSS SECTIONS
FOR
USH 10 OUTAGAMIE COUNTY

LEVELS ON 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

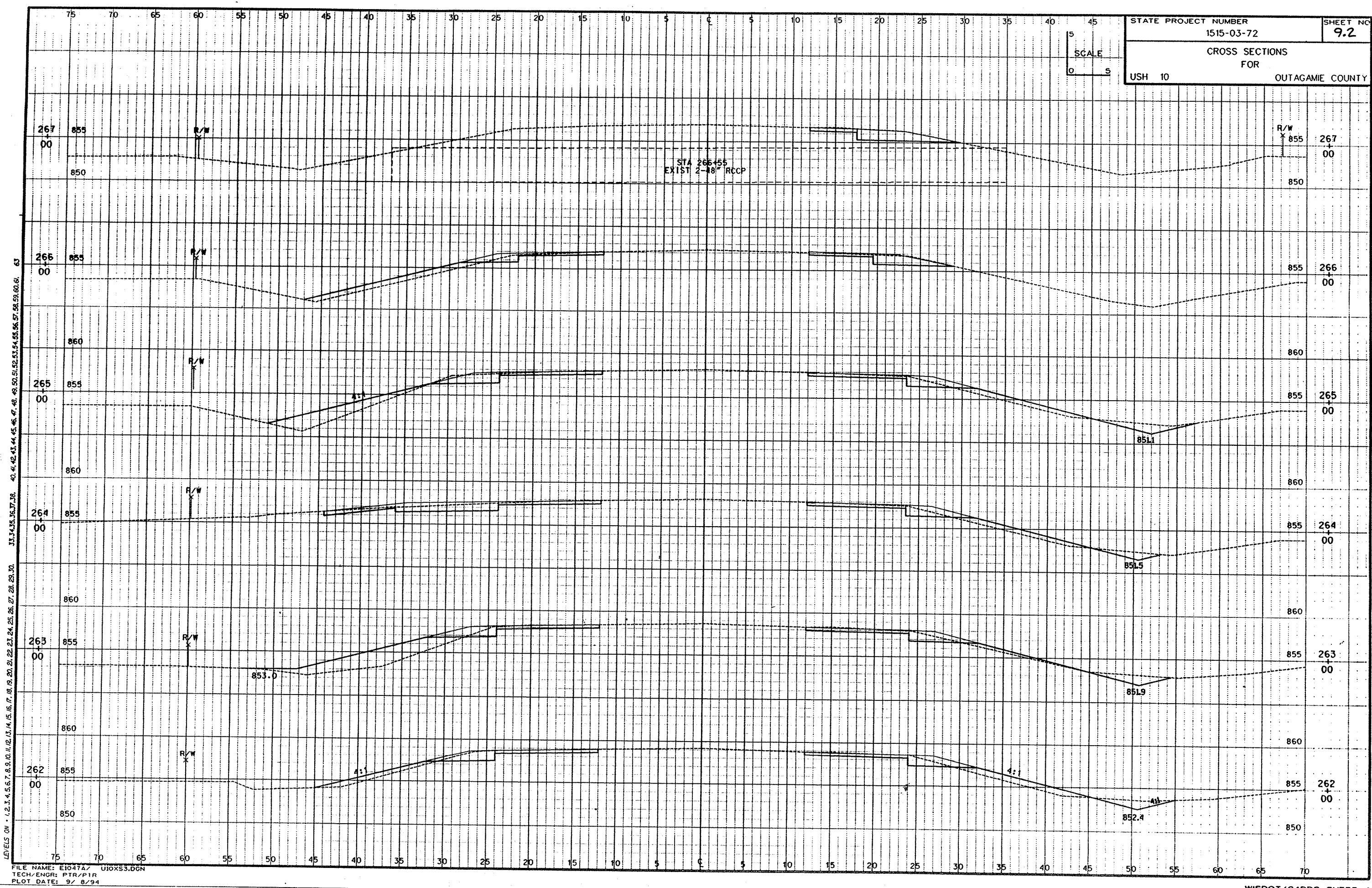
FILE NAME: E1047A/ U10XSL.DGN
TECH/ENGR: PTR/PTR
PLOT DATE: 9/ 8/94

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63

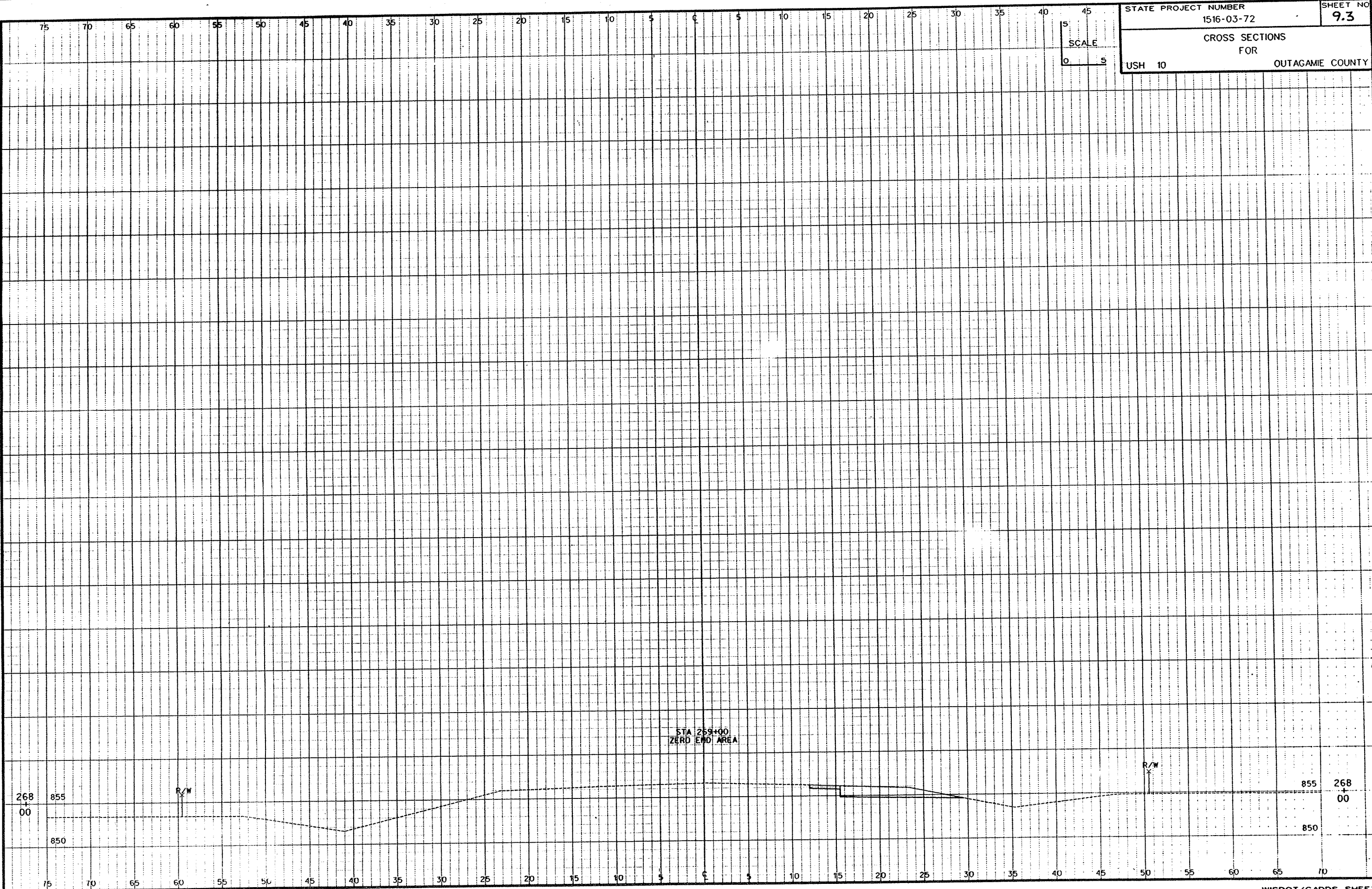


STATE PROJECT NUMBER
1516-03-72
SHEET NO
9.1
CROSS SECTIONS
FOR
US 10 OUTAGAMIE COUNTY

SCALE
0 5



LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



STATE PROJECT NUMBER 1516-03-72		SHEET NO 9.3
CROSS SECTIONS FOR		
USH 10	OUTAGAMIE COUNTY	