STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4984-00-97	STP 2000 (368)	1
4984-00-95	———	———

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT

("E")

N. BALLARD ROAD, CITY OF APPLETON

EVERGREEN DRIVE - SHADY LANE — SHADY LANE - CTH JJ

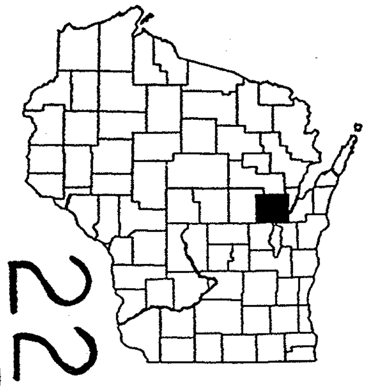
CTH E
OUTAGAMIE COUNTY

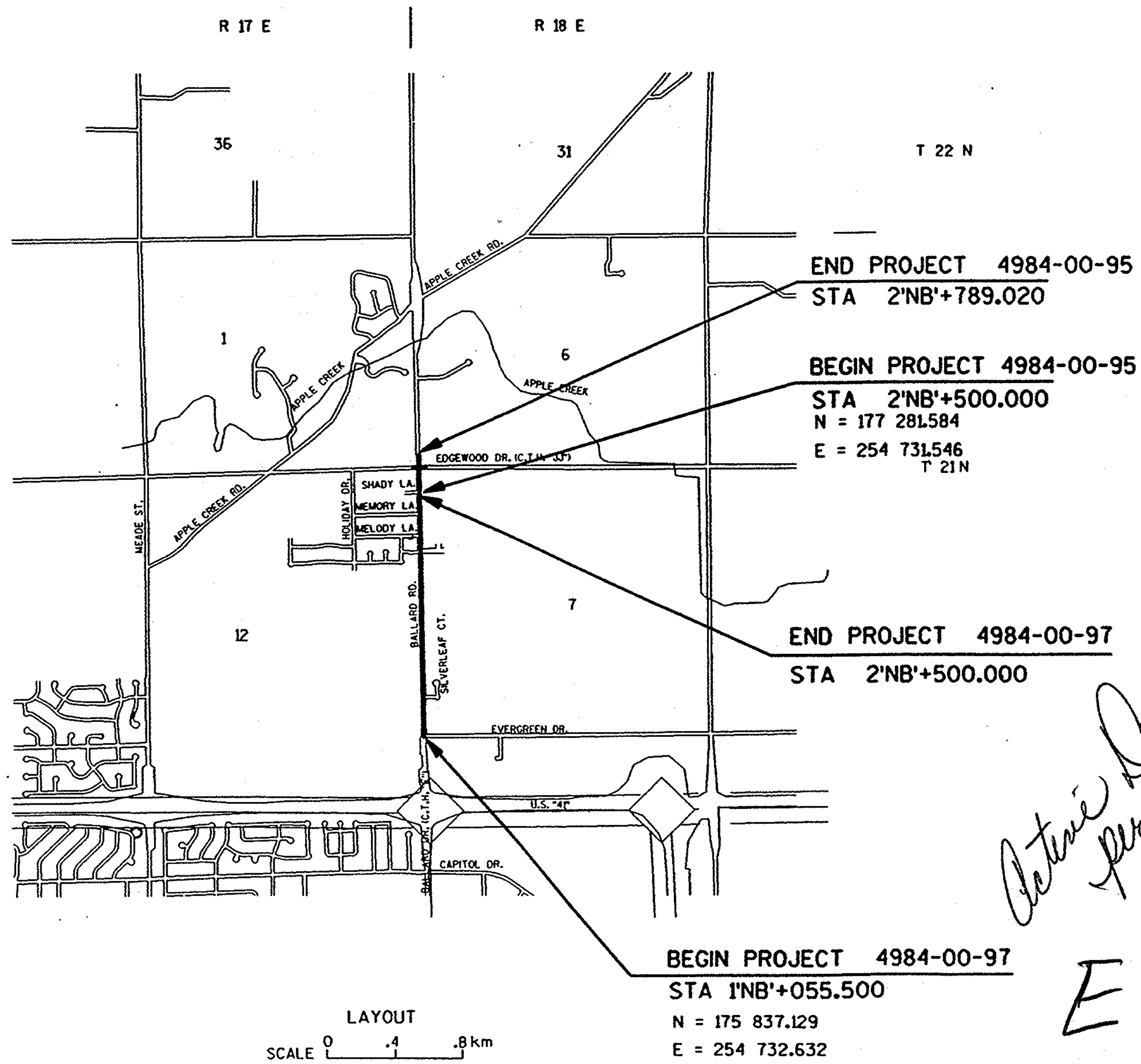
METRIC PLAN

5/11/00

RECEIVED MAY 11 2000 OUTAGAMIE COUNTY HIGHWAY DEPT.

STATE PROJECT NUMBER	STATE PROJECT NUMBER
4984-00-97	4984-00-95





LAYOUT

SCALE 0 .4 .8 km

N

DESIGN DESIGNATION

ADT	(2000)	=	13,100
ADT	(2010)	=	16,450
ADT	(2020)	=	20,750
DHV		=	1,820
D		=	58/42
T		=	5.0%
DESIGN SPEED		=	65 km/h
ESALS		=	N/A

CONVENTIONAL SYMBOLS

- COUNTY LINE
- CORPORATE LIMITS
- PROPERTY LINE (PL = 58.1)
- 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 (CAUTION)
- UNDERGROUND UTILITIES
  - GAS — G
  - ELECTRIC — E
  - CABLE TV — TV
  - TELEPHONE OR TELEGRAPH — T
  - FIBER OPTIC CABLE — FO
- SERVICE PEDESTAL
- CABLE MARKER
- POWER POLE
- TELEPHONE POLE
- RAILROAD
- MARSH AREA
- WOODED OR SHRUB AREA

TOTAL NET LENGTH OF CENTERLINE = 1.445 km (URBAN) PROJECT 4984-00-97
TOTAL NET LENGTH OF CENTERLINE = 0.289 km (URBAN) PROJECT 4984-00-95

NOTE: ALL COORDINATES ON THIS PLAN ARE REFERENCED FROM OUTAGAMIE COUNTY COORDINATE SYSTEM.

Active Drawer per AL

E-19

ACCEPTED FOR OUTAGAMIE COUNTY
10-20-99 (Date) (Signature)

ACCEPTED FOR CITY OF APPLETON
10-21-99 (Date) Paula Vandehey (Signature)

ORIGINAL PLANS PREPARED BY
OMNNI ASSOCIATES

WISCONSIN PHILLIP T. ROBERTS E-26609 APPLETON, WI PROFESSIONAL ENGINEER 10/19/99

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	OMNNI ASSOCIATES/CITY OF APPLETON
Designer	OMNNI ASSOCIATES
District Examiner	L. RINGBLOM
District Supervisor	J. LAMERS
C.O. Coordinator	
C.O. Examiner	N.R. AFFELDT

APPROVED FOR DISTRICT OFFICE
DATE: 12/13/99 (Signature)

AUTHORIZED FOR CENTRAL OFFICE TRAFFIC
DATE: 2/7/00 Chester J. Spay (Signature)

M

4984-00-97 & 4984-00-95 OUTAGAMIE

22

Apr-00 / (4984-00-96)

58,59,60. 29.

C-5-D 11-27-1

LEVELS ON •

STANDARD DETAIL DRAWINGS

SDD NUMBER	TITLE
8A5-15a	INLET COVERS TYPE A, H, A-S, & H-S
8A5-15b	INLET COVERS TYPE B, B-A, C, MS, MS-A & WM
8B6-3	MANHOLES, TYPE 1
8C1-5	INLETS TYPE 1, 2, 3, AND 4
8C5-2	INLETS TYPE 8, 9, 10, AND 11
8D1-13	CONCRETE CURB, CONCRETE CURB AND GUTTER AND PAVEMENT TIES
8D4-3	CONCRETE SURFACE DRAIN AND ASPHALTIC FLUME
8D5-8	CURB RAMPS
8D15-3a	EDGEDRAIN OUTLET AND OUTFALL MARKERS
8E9-5	SILT FENCE
8F1-11	APRON ENDWALL FOR CULVERT PIPE
8F4-5	JOINT TIES FOR CONCRETE PIPE
9B2-6	CONDUIT
9B4-3	PULL BOX
9C2-2	CONCRETE BASES, TYPES 1, 2 AND 5
9C3-2	TRANSFORMER/PEDESTAL BASES
9C5-2	CONCRETE CONTROL CABINET BASES
9D1-2	CABINET SERVICE INSTALLATION
9E1-3a	POLE MOUNTINGS FOR TRAFFIC SIGNALS, TYPE 2
9E1-3f	HARDWARE DETAILS FOR POLE MOUNTINGS
9F9-2	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE COURSE (NEW CONCRETE PAVEMENT)
11B2-1	CONCRETE MEDIAN NOSE
13C1-10	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND PAVEMENT TIES
13C4-12	URBAN NON-DOWELED CONCRETE PAVEMENT
13C13-3	URBAN DOWELED CONCRETE PAVEMENT
15C7-6a	PAVEMENT MARKING SYMBOLS
15C8-8a	PAVEMENT MARKING (MAINLINE)
15C8-8b	PAVEMENT MARKING (INTERSECTIONS)
15C8-8d	PAVEMENT MARKING (LEFT TURN LANES)
15C8-8e	PAVEMENT MARKING (ISLANDS, STOP LINE AND CROSSWALK)
16A1-5	LANDMARK REFERENCE MONUMENTS AND COVERS

UTILITIES

ELECTRIC	WISCONSIN ELECTRIC POWER COMPANY 800 SOUTH LYNNDALE DRIVE P.O. BOX 1699 APPLETON, WISCONSIN 54913 ATTN: MR. KEN SCHEONIKE TELEPHONE: (920) 380-3359
TELEPHONE	AMERITECH 221 W. WASHINGTON STREET FOURTH FLOOR, OSPE APPLETON, WISCONSIN 54911 ATTN: MR. JACK BARTELT CABLE LOCATE: (920) 735-3809 FAX: (920) 735-3073
GAS	WISCONSIN ELECTRIC POWER CO - GAS DIVISION 800 SOUTH LYNNDALE DRIVE P.O. BOX 907 APPLETON, WISCONSIN 54912 ATTN: MR. DENNIS GIRARD TELEPHONE: (920) 380-3466
HIGH PRESSURE GAS	ANR PIPELINE COMPANY W3925 PIPELINE LANE EDEN, WISCONSIN 53019 ATTN: MR. JERRY BINOTTO TELEPHONE: (920) 477-4211 FAX: (920) 477-2113
SANITARY SEWER	CITY OF APPLETON 100 NORTH APPLETON STREET APPLETON, WISCONSIN 54911 ATTN: MR. ROSS BUETOW TELEPHONE: (920) 832-6474
WATER	CITY OF APPLETON 2625 EAST GLENDALE AVENUE APPLETON, WISCONSIN 54911 ATTN: MR. GARY KLEIN TELEPHONE: (920) 810-4825
CABLE TV	TIME WARNER CABLE 1001 KENNEDY DRIVE P.O. BOX 145 KIMBERLY, WISCONSIN 54136 ATTN: MR. STEVE POEHLEIN TELEPHONE: (920) 831-9207 PAGER: (920) 234-2167
FIBER OPTIC	AMERITECH 221 W. WASHINGTON STREET FOURTH FLOOR, OSPE APPLETON, WISCONSIN 54911 ATTN: MR. JACK BARTELT CABLE LOCATE: (920) 735-3809 FAX: (920) 735-3073
DIGGERS HOTLINE	UTILITY LOCATE TELEPHONE: (800) 242-8511 (TOLL FREE)
DNR LIAISON	MR. AL STRANZ WDNR - LAKE MICHIGAN DISTRICT 1125 N. MILITARY AVENUE GREEN BAY, WISCONSIN 54307-0448 TELEPHONE: (920) 492-5818
COUNTY SURVEYOR OR SURVEY CONTACT PERSON	MR. JIM HEBERT OUTAGAMIE COUNTY COURTHOUSE 410 S. WALNUT STREET APPLETON, WISCONSIN 54911 TELEPHONE: (920) 832-5255
TRAFFIC SIGNALS	CITY OF APPLETON 2625 EAST GLENDALE AVENUE APPLETON, WISCONSIN 54911 ATTN: MR. GREG HANSON TELEPHONE: (920) 832-6478

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 FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 30 PERCENT. ALL FILL VOLUMES SHOWN ARE ACTUAL VOLUMES.

DRIVEWAYS SHALL BE REPLACED IN KIND. CRUSHED AGGREGATE BASE COURSE WILL BE USED UNDER ALL DRIVEWAYS AND SIDEWALK.

ALL DISTURBED AREAS NOT OTHERWISE INDICATED SHALL BE SALVAGED TOPSOIL, FERTILIZED, SEEDED AND MULCHED.

ALL CONCRETE MEDIAN NOSES SHALL BE SLOPED AND CONSTRUCTED AS SHOWN IN THE STANDARD DETAIL DRAWING.
ALL RADIUS DIMENSIONS SHOWN TO CURB AND GUTTER ARE TO THE FACE OF CURB.

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

TACK COAT HAS BEEN ESTIMATED AT AN APPLICATION RATE OF 0.113 LITERS PER SQUARE METER AND SHALL BE USED IF DEEMED NECESSARY BY THE ENGINEER.

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

PROPOSED UNDERDRAIN CONNECTIONS TO PROPOSED INLETS, EXISTING INLETS AND EXISTING STORM SEWER WILL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROPOSED PIPE UNDERDRAIN.

THE COST OF CONNECTING EXISTING STORM SEWERS OR DRAINAGE STRUCTURES TO THE NEW STORM SEWER SHALL BE INCIDENTAL TO COST OF STORM SEWER. CONCRETE COLLARS, WHERE NOTED IN THE PLANS, WILL BE PAID FOR SEPARATELY.

IMMEDIATELY AFTER CONSTRUCTION OF ANY INLET, CONTRACTOR SHALL CONSTRUCT THE INLET PROTECTION IN ACCORDANCE WITH THE DETAIL SHOWN IN THE CONSTRUCTION DETAILS TO MINIMIZE SEDIMENTATION IN THE INLET AND STORM SEWER.

CURB HEIGHTS AT THE ENDS OF CURB AND GUTTER SHALL BE TAPERED FROM 150 mm TO 0 mm IN 1 METER, WHERE APPLICABLE.

CURB RAMP OPENINGS AS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE GIVEN BY THE ENGINEER IN THE FIELD.

REINFORCED CONCRETE APRON ENDWALLS AND ADJOINING TWO SECTIONS OF CONCRETE PIPE SHALL BE TIED TOGETHER AS SHOWN IN THE STANDARD DETAIL DRAWINGS.

DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES.

COORDINATE CONVERSION FACTOR = 0.999940

PLAN ELEVATIONS = USGS DATUM.

BOXOUTS SHALL BE PROVIDED IN CONCRETE MEDIAN FOR SIGN PLACEMENT. THE COST OF THE BOXOUTS SHALL BE INCIDENTAL TO CONCRETE MEDIAN. LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.

THE CITY OF APPLETON LET A CONTRACT TO CONSTRUCT MAINLINE STORM SEWER AND RELOCATE WATERMAIN DURING THE 1999 CONSTRUCTION SEASON. THESE CONSTRUCTION PLANS REFLECT THEIR PROPOSED LOCATION. AS-BUILT INFORMATION WILL BE AVAILABLE FROM THE CITY OF APPLETON.

PRECAST CONCRETE GRADE RINGS SHALL BE USED TO ADJUST MANHOLES AND INLETS. THE HEIGHT OF THE GRADE RING SHALL CORRESPOND TO THE REQUIRED ADJUSTMENT, WITHIN 50 mm (I.E. MULTIPLE 50 mm RINGS SHALL NOT BE USED TO ADJUST 100 mm OR MORE.

ALL TRANSVERSE CONTRACTION JOINTS, LONGITUDINAL JOINTS AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT AND CONCRETE CURB AND GUTTER SHALL BE SAWED AND SEALED AS SHOWN IN CONSTRUCTION AND PAVING DETAILS.

ALL INLET CASTINGS IN THE CITY OF APPLETON REMOVED AS PART OF THIS PROJECT SHALL BECOME THE PROPERTY OF THE CITY OF APPLETON. THE CONTRACTOR SHALL CONTACT THE CITY OF APPLETON FOR A LOCATION TO PLACE THE INLETS IN THE RIGHT-OF-WAY FOR PICK-UP BY THE CITY.

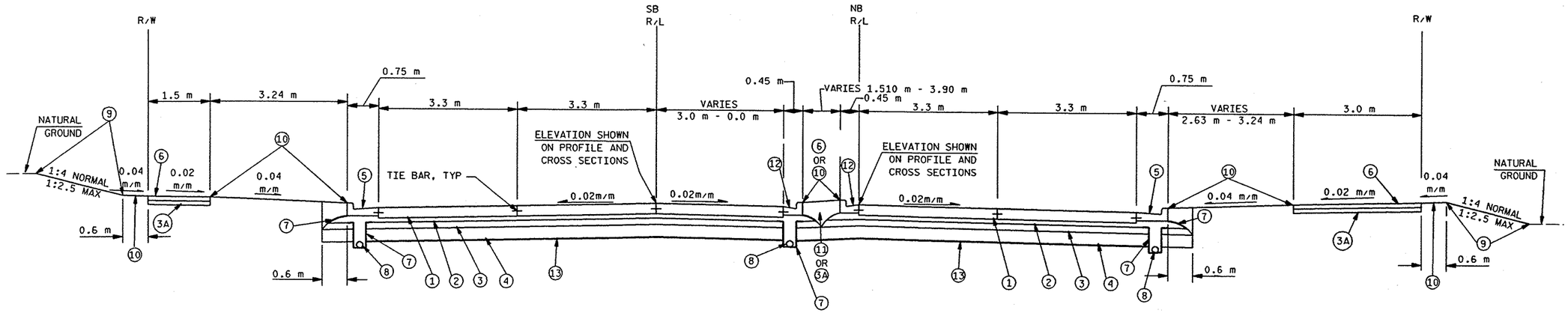
WETLAND AREAS ARE SHOWN ON THE PLANS. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO WORK WITHIN THE SLOPE INTERCEPTS IN THE WETLAND AREAS.

DETAIL SHEET INDEX

EROSION CONTROL NOTES

RUNOFF COEFFICIENT FOR THIS PROJECT: EXISTING PAVEMENT 0.95, EXISTING SLOPES 0.30, NEW PAVEMENT 0.95, NEW SLOPES 0.30.

TOTAL PROJECT AREA = 11.060 HECTARES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 8.225 HECTARES

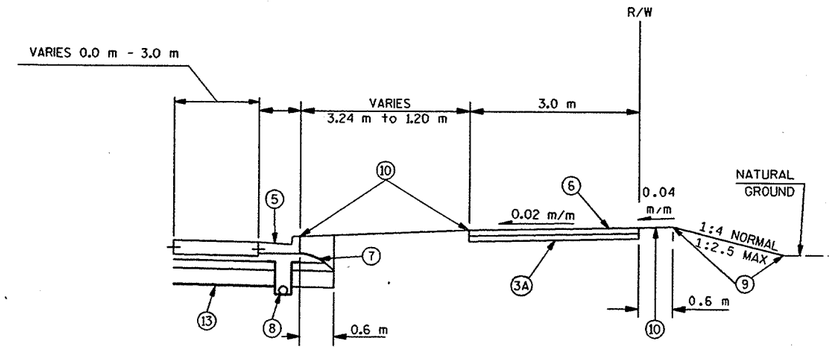


TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD RD)

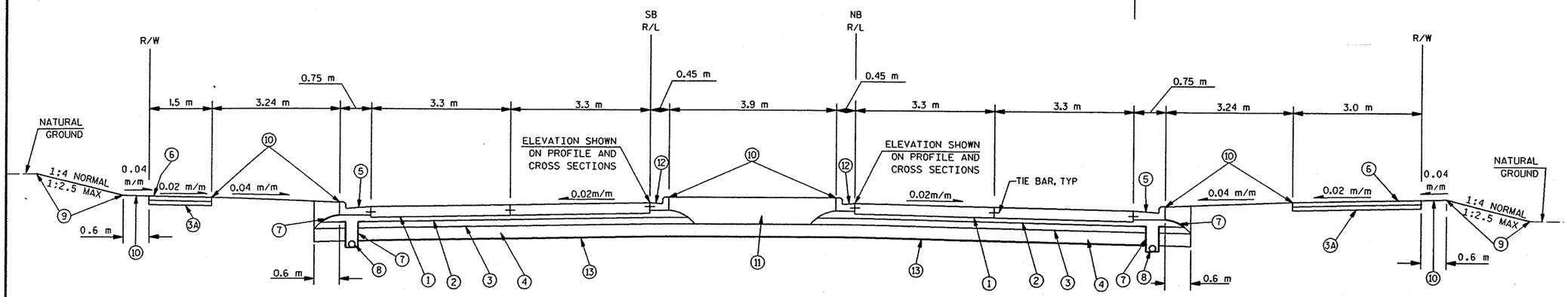
STA 1'NB' + 055.5 TO 1'NB' + 131.89

LEGEND

1. DOWELED NON-REINFORCED CONCRETE PAVEMENT. 215 mm
2. CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 2, 100 mm
3. CRUSHED AGGREGATE BASE COURSE, 150 mm
3A. CRUSHED AGGREGATE BASE COURSE, 100 mm (TO BE USED UNDER CONCRETE SIDEWALK)
4. BREAKER RUN, 300 mm (OR AS DIRECTED BY THE ENGINEER)
5. CONCRETE CURB AND GUTTER, 750 mm (30-INCH), TYPE A
6. CONCRETE SIDEWALK, 100 mm
7. GEOTEXTILE FABRIC, TYPE DF, SCHEDULE A
8. PIPE UNDERDRAIN, 150 mm
9. TOPSOIL, FERTILIZE, SEED AND MULCH
10. TOPSOIL, FERTILIZE, AND SOD
11. BACKFILL WITH UNCLASSIFIED
12. CONCRETE CURB AND GUTTER, 450 mm (18-INCH), TYPE A
13. GEOTEXTILE FABRIC, TYPE SAS



STA 1'NB' + 219.70 TO 1'NB' + 286.04

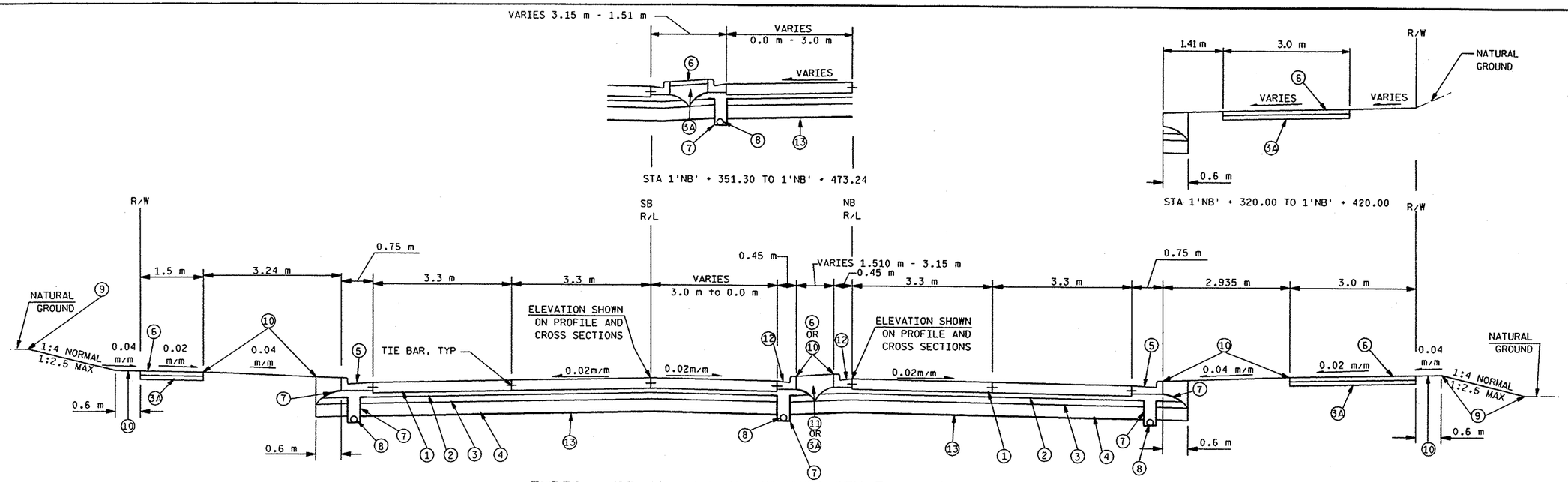


TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD RD)

STA 1'NB' + 131.89 TO 1'NB' + 286.04
STA 1'NB' + 535.40 TO 2'NB' + 076.75

TYPICAL SECTIONS FOR CTH E (N. BALLARD RD)		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.2 M

FILE NAME: E1339A98/SHEETS /PLAN2 /TYP01 .2DG TECH/ENGR: DPP/PTR PLOT DATE: 10/25/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1, 2, 3, 4.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
56, 59,

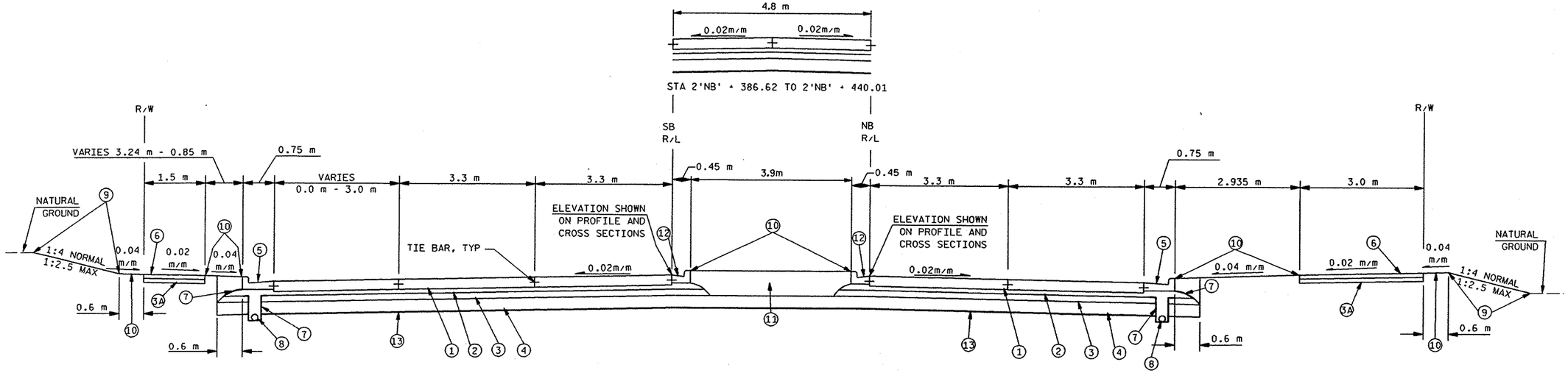


TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD RD)

STA 1'NB' + 286.04 TO 1'NB' + 473.24

LEGEND

1. DOWELED NON-REINFORCED CONCRETE PAVEMENT, 215 mm
2. CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 2, 100 mm
3. CRUSHED AGGREGATE BASE COURSE, 150 mm
3A. CRUSHED AGGREGATE BASE COURSE, 100 mm (TO BE USED UNDER CONCRETE SIDEWALK)
4. BREAKER RUN, 300 mm (OR AS DIRECTED BY THE ENGINEER)
5. CONCRETE CURB AND GUTTER, 750 mm (30-INCH), TYPE A
6. CONCRETE SIDEWALK, 100 mm
7. GEOTEXTILE FABRIC, TYPE DF, SCHEDULE A
8. PIPE UNDERDRAIN, 150 mm
9. TOPSOIL, FERTILIZE, SEED AND MULCH
10. TOPSOIL, FERTILIZE, AND SOD
11. BACKFILL WITH UNCLASSIFIED
12. CONCRETE CURB AND GUTTER, 450 mm (18-INCH), TYPE A
13. GEOTEXTILE FABRIC, TYPE SAS



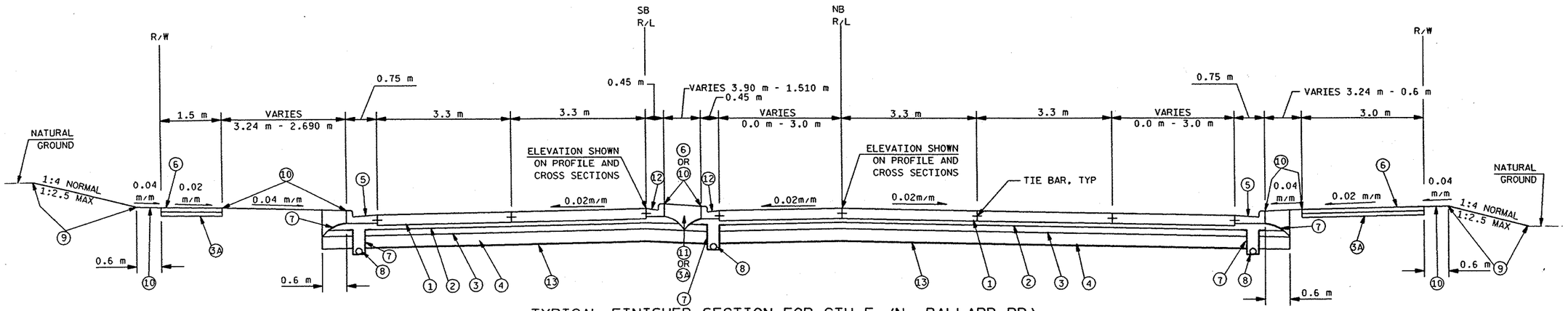
TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD RD)

STA 1'NB' + 473.24 TO 1'NB' + 535.40

TYPICAL SECTIONS FOR CTH E (N. BALLARD RD)		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.3 M

FILE NAME: E1339A98/SHEETS /PLAN2 /TYPO2 .2DG TECH/ENGR: DPP/PTR PLOT DATE: 10/25/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON - 1,2,3,4. PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
56, 59,

WISDOT: MSHT40

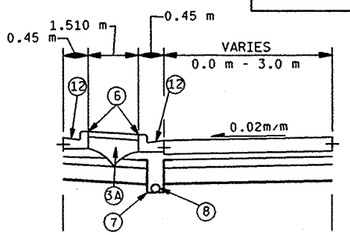


TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD RD)

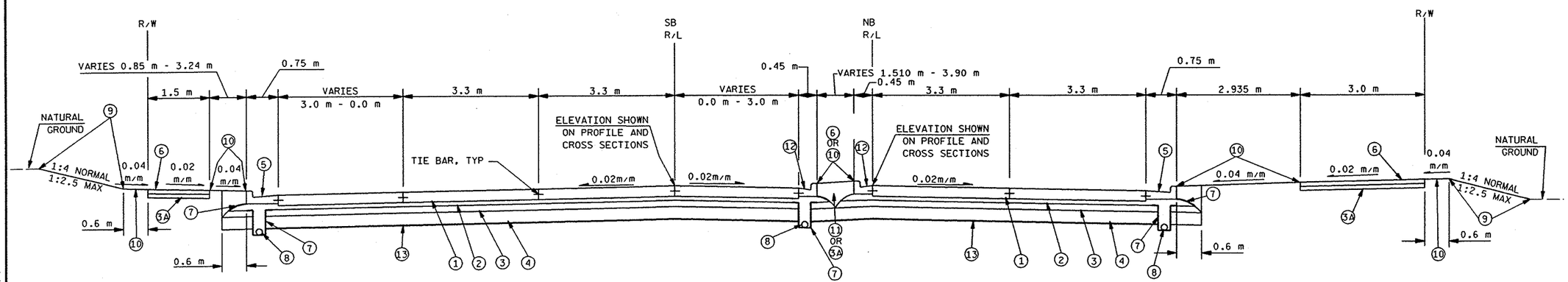
STA 2'NB' + 076.75 TO 2'NB' + 140.00
STA 2'NB' + 582.58 TO 2'NB' + 662.00

LEGEND

1. DOWELED NON-REINFORCED CONCRETE PAVEMENT. 215 mm
2. CRUSHED AGGREGATE BASE COURSE, OPEN GRADED. NO. 2, 100 mm
3. CRUSHED AGGREGATE BASE COURSE. 150 mm
3A. CRUSHED AGGREGATE BASE COURSE, 100 mm (TO BE USED UNDER CONCRETE SIDEWALK)
4. BREAKER RUN, 300 mm (OR AS DIRECTED BY THE ENGINEER)
5. CONCRETE CURB AND GUTTER, 750 mm (30-INCH), TYPE A
6. CONCRETE SIDEWALK, 100 mm
7. GEOTEXTILE FABRIC, TYPE DF, SCHEDULE A
8. PIPE UNDERDRAIN, 150 mm
9. TOPSOIL, FERTILIZE, SEED AND MULCH
10. TOPSOIL, FERTILIZE, AND SOD
11. BACKFILL WITH UNCLASSIFIED
12. CONCRETE CURB AND GUTTER, 450 mm (18-INCH), TYPE A
13. GEOTEXTILE FABRIC, TYPE SAS



STA 2'NB' + 720.00 TO 2'NB' + 760.00



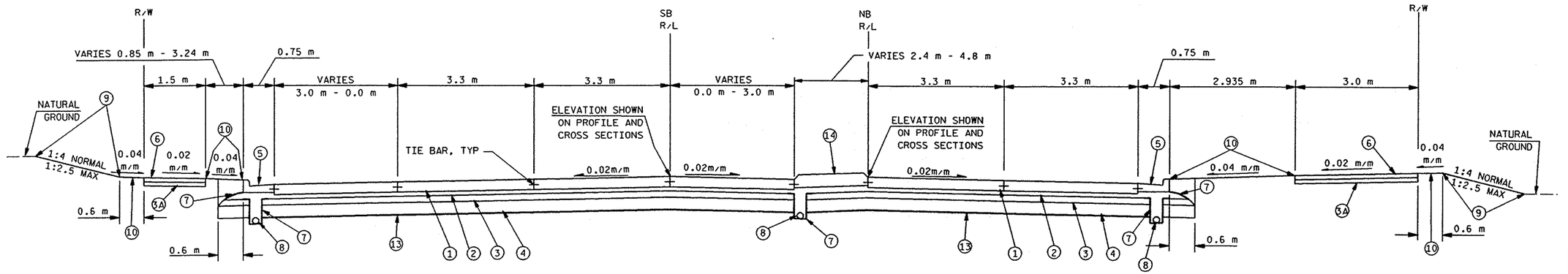
TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD RD)

STA 2'NB' + 140.00 TO 2'NB' + 204.85
STA 2'NB' + 662.00 TO 2'NB' + 760.00

TYPICAL SECTIONS FOR CTH E (N. BALLARD RD)		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.4 M

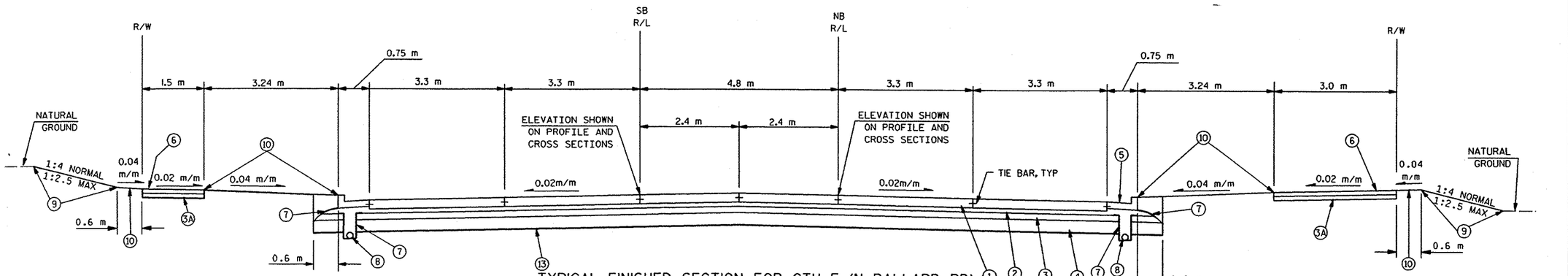
WisDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN2 /TYPO3 .2DG
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654
LEVELS ON - 1,2,3,4.
TECH/ENGR: DPP/PTR PLOT DATE: / /
REV. DATE: / /
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
56. 59.
DATE: 10/25/99



TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD RD)

STA 2'NB' + 204.85 TO 2'NB' + 234.83

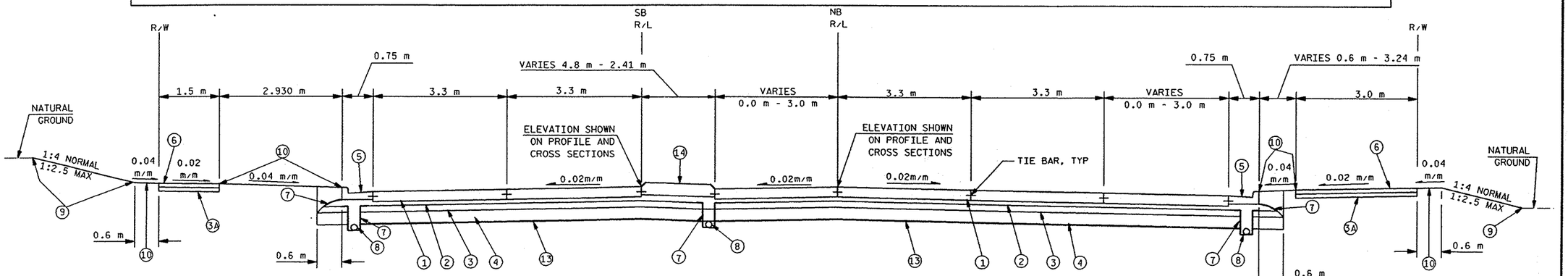


TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD RD)

STA 2'NB' + 234.83 TO 2'NB' + 386.62
STA 2'NB' + 440.01 TO 2'NB' + 552.72
STA 2'NB' + 760.00 TO 2'NB' + 789.02

LEGEND

1. DOWELED NON-REINFORCED CONCRETE PAVEMENT. 215 mm
2. CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 2, 100 mm
3. CRUSHED AGGREGATE BASE COURSE, 150 mm
3A. CRUSHED AGGREGATE BASE COURSE, 100 mm (TO BE USED UNDER CONCRETE SIDEWALK)
4. BREAKER RUN, 300 mm (OR AS DIRECTED BY THE ENGINEER)
5. CONCRETE CURB AND GUTTER, 750 mm (30-INCH), TYPE A
6. CONCRETE SIDEWALK, 100 mm
7. GEOTEXTILE FABRIC, TYPE DF, SCHEDULE A
8. PIPE UNDERDRAIN, 150 mm
9. TOPSOIL, FERTILIZE, SEED AND MULCH
10. TOPSOIL, FERTILIZE, AND SOD
11. BACKFILL WITH UNCLASSIFIED
12. CONCRETE CURB AND GUTTER, 450 mm (18-INCH), TYPE A
13. GEOTEXTILE FABRIC, TYPE SAS
14. CONCRETE CORRUGATED MEDIAN, 215 mm

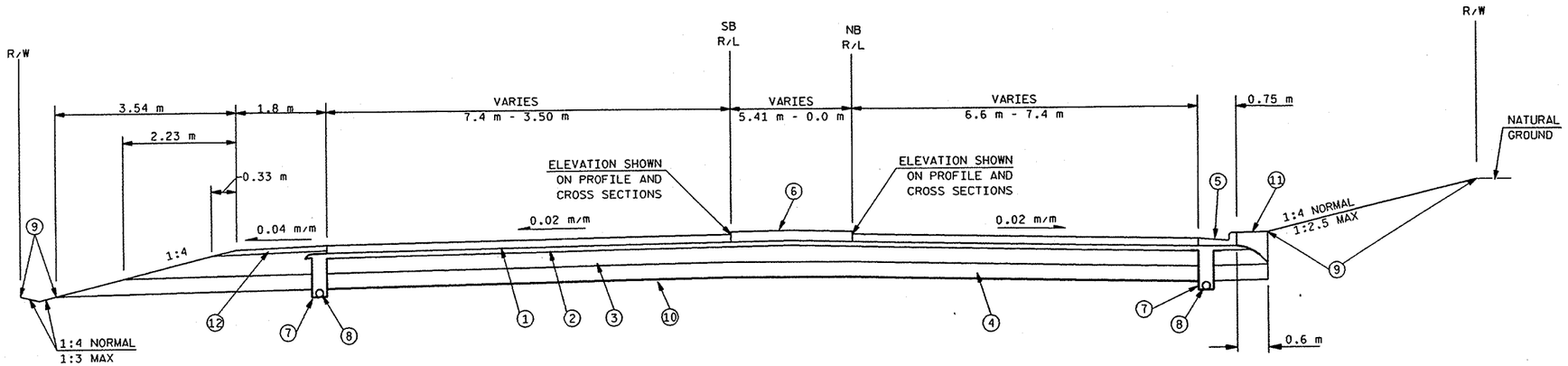


TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD RD)

STA 2'NB' + 552.72 TO STA 2'NB' + 582.58

TYPICAL SECTIONS FOR CTH E (N. BALLARD RD)		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.5 M

FILE NAME: E1339A98/SHEETS /PLAN2 /TYP04 .2DG TECH/ENGR: DPP/PTR
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON • 1.2.3.4. PLOT DATE: 10/25/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
56. 59.

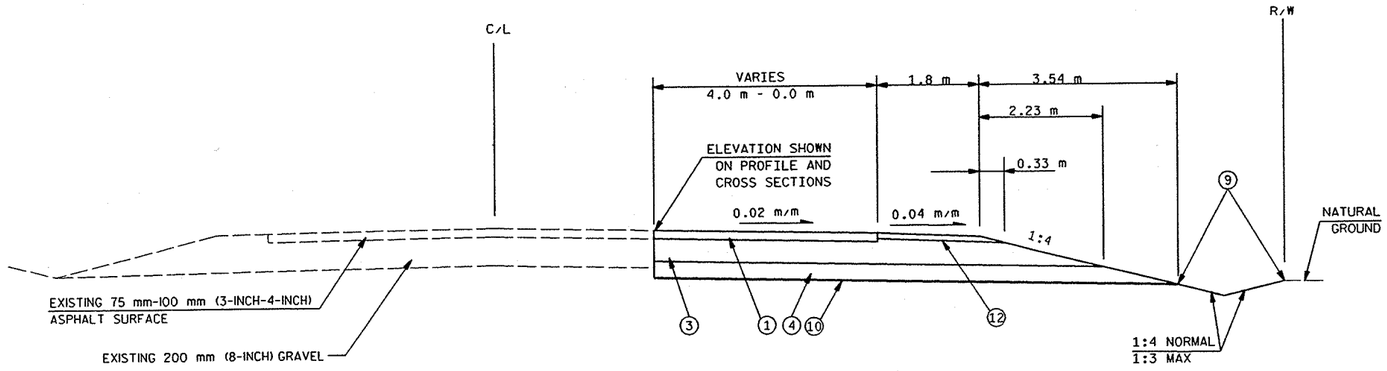


TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD ROAD)

STA 2'NB' + 789.02 TO STA 2'NB' + 863.42

LEGEND

1. ASPHALTIC CONCRETE PAVEMENT, TYPE MV, 150 mm (50 mm UPPER COURSE OVER 2-50 mm LOWER COURSE)
2. CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 2, 100 mm
3. CRUSHED AGGREGATE BASE COURSE, 300 mm
4. BREAKER RUN, 300 mm (OR AS DIRECTED BY THE ENGINEER)
5. CONCRETE CURB AND GUTTER, 750 mm, TYPE D
6. CONCRETE CORRUGATED MEDIAN
7. GEOTEXTILE FABRIC, TYPE DF, SCHEDULE A
8. PIPE UNDERDRAIN, 150 mm
9. TOPSOIL, FERTILIZE, SEED AND MULCH
10. GEOTEXTILE FABRIC, TYPE SAS
11. TOPSOIL, FERTILIZE, AND SOD
12. CRUSHED AGGREGATE BASE COURSE FOR SHOULDERS



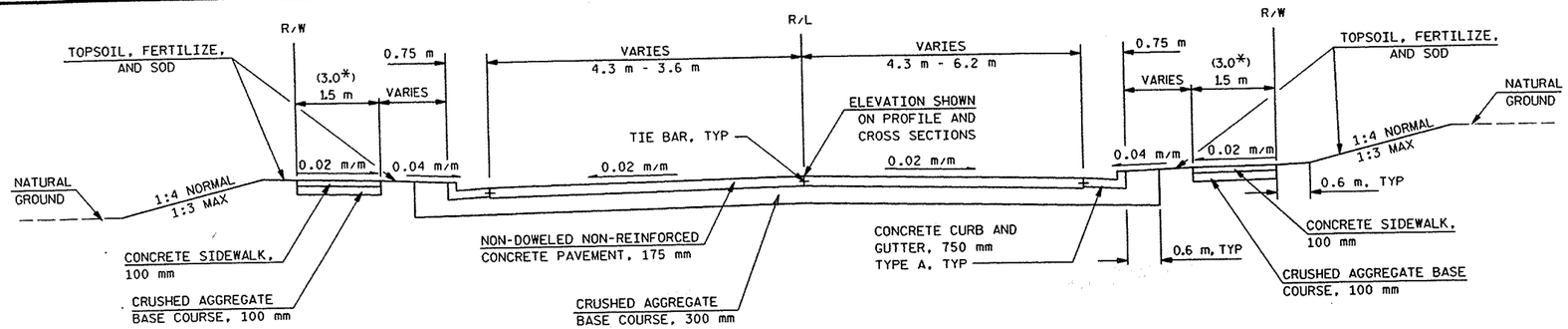
TYPICAL FINISHED SECTION FOR CTH E (N. BALLARD ROAD)

STA 2'NB' + 863.42 TO STA 3'NB' + 055.00

TYPICAL SECTIONS FOR CTH E (N. BALLARD RD)		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.6	M

WISDOT: MSHT40

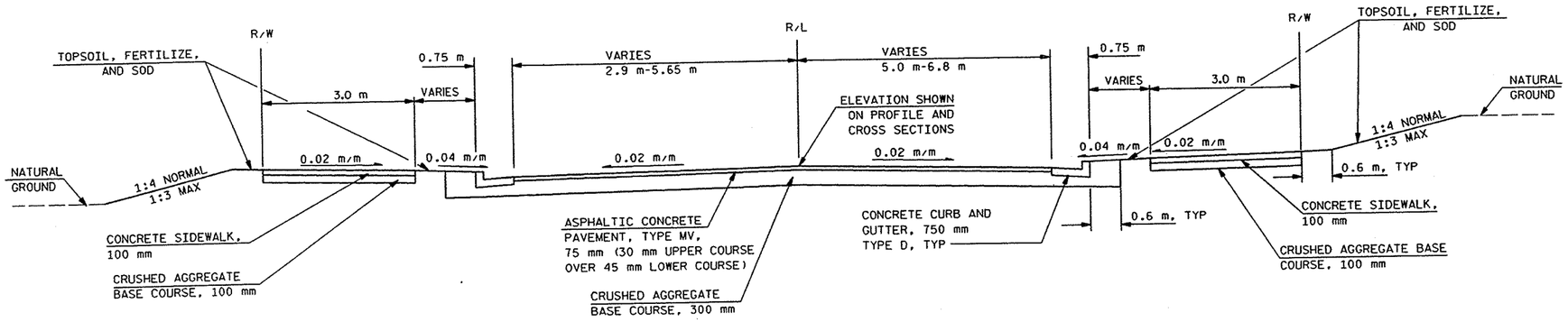
FILE NAME: E1339A /SHEETS /PLAN2 /TYPO5 .2DG TECH/ENGR: /
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON - 1,2,3,4,5,6,7,8, 9,10,11, 13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57, 59,60,61,62.
PLOT DATE: 08/03/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



* STA 2+081.667 TO STA 2+266.80

TYPICAL FINISHED SECTION FOR ASHBURY DRIVE

STA 2+081.667 TO STA 2+277.40

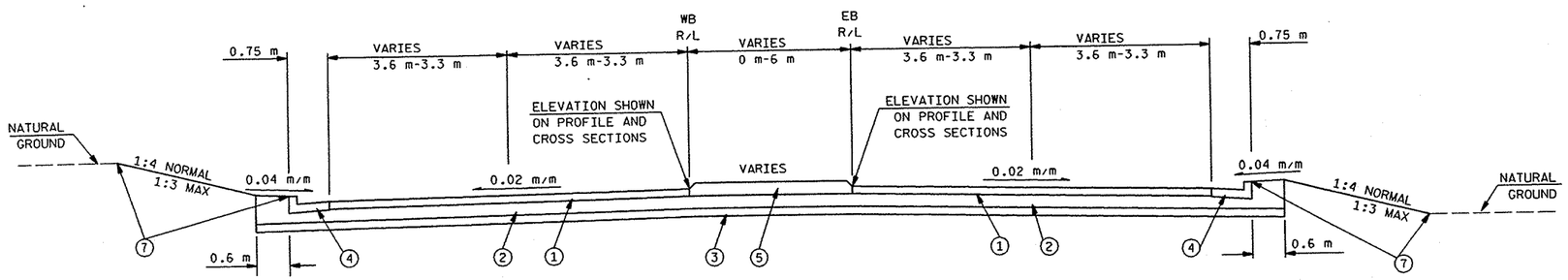


TYPICAL FINISHED SECTION FOR ASHBURY DRIVE

STA 2+277.40 TO STA 2+293.50

LEGEND

1. ASPHALTIC CONCRETE PAVEMENT, TYPE MV, 140 mm (40 mm UPPER COURSE OVER 2-50 mm LOWER COURSES)
2. CRUSHED AGGREGATE BASE COURSE, 225 mm
3. BREAKER RUN, 150 mm (OR AS DIRECTED BY THE ENGINEER)
4. CONCRETE CURB AND GUTTER, 750 mm (30-INCH), TYPE D
5. CONCRETE CORRUGATED MEDIAN, 138 mm
6. TOPSOIL, FERTILIZE, SEED AND MULCH
7. TOPSOIL, FERTILIZE, AND SOD
8. BACKFILL WITH UNCLASSIFIED



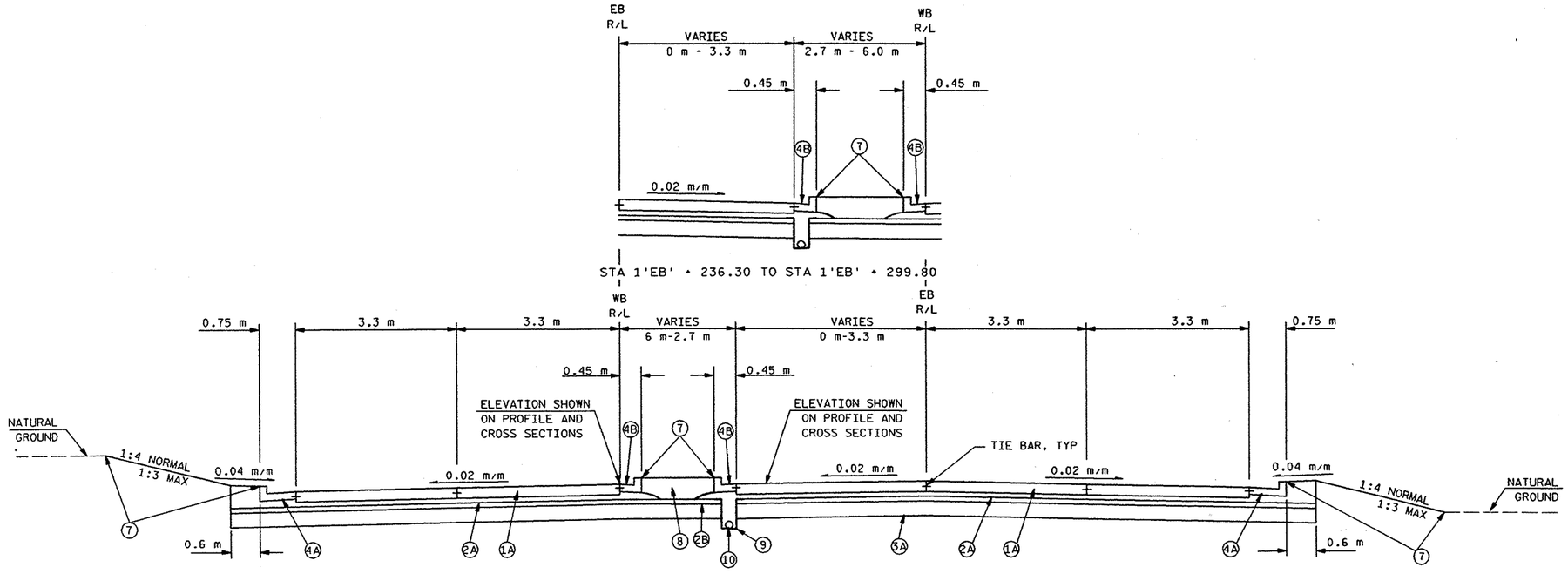
TYPICAL FINISHED SECTION FOR CTH JJ (E. EDGEWOOD DRIVE)

STA 1'EB' + 040.00 TO STA 1'EB' + 140.00

TYPICAL SECTIONS FOR ASHBURY DRIVE AND CTH JJ		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.7 M

WISDOT: MSHT40

FILE NAME: E1339A /SHEETS /PLAN2 /TYP06 .2DG TECH/ENGR: / PLOT DATE: 10/25/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11, 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, 59,60,61,62. PLOT SCALE: 1:

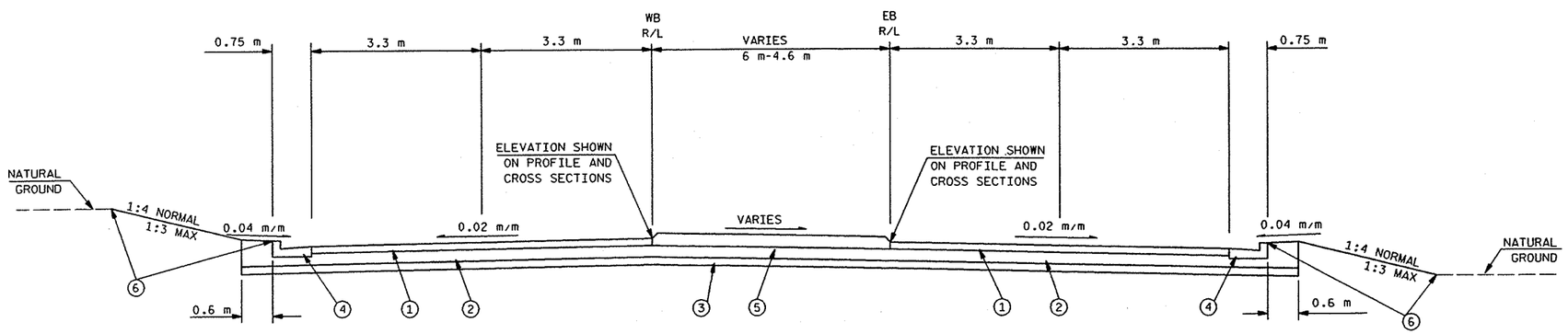


TYPICAL FINISHED SECTION FOR CTH JJ (E. EDGEWOOD DRIVE)

STA 1'EB' + 140 TO STA 1'EB' + 202.3

LEGEND

1. ASPHALTIC CONCRETE PAVEMENT, TYPE MV, 140 mm (40 mm UPPER COURSE OVER 2-50 mm LOWER COURSES)
1A. DOWELED NON-REINFORCED CONCRETE PAVEMENT, 215 mm
2. CRUSHED AGGREGATE BASE COURSE, 225 mm
2A. CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 2, 100 mm
2B. CRUSHED AGGREGATE BASE COURSE, 150 mm
3. BREAKER RUN, 150 mm (OR AS DIRECTED BY THE ENGINEER)
3A. BREAKER RUN, 300 mm (OR AS DIRECTED BY THE ENGINEER)
4. CONCRETE CURB AND GUTTER, 750 mm, TYPE D
4A. CONCRETE CURB AND GUTTER, 750 mm, TYPE A
4B. CONCRETE CURB AND GUTTER, 450 mm, TYPE D
5. CONCRETE CORRUGATED MEDIAN, 138 mm
6. SALVAGED TOPSOIL, FERTILIZE, SEED AND MULCH
7. TOPSOIL, FERTILIZE, AND SOD
8. BACKFILL WITH UNCLASSIFIED
9. GEOTEXTILE FABRIC, TYPE DF, SCHEDULE A
10. PIPE UNDERDRAIN, 150 mm



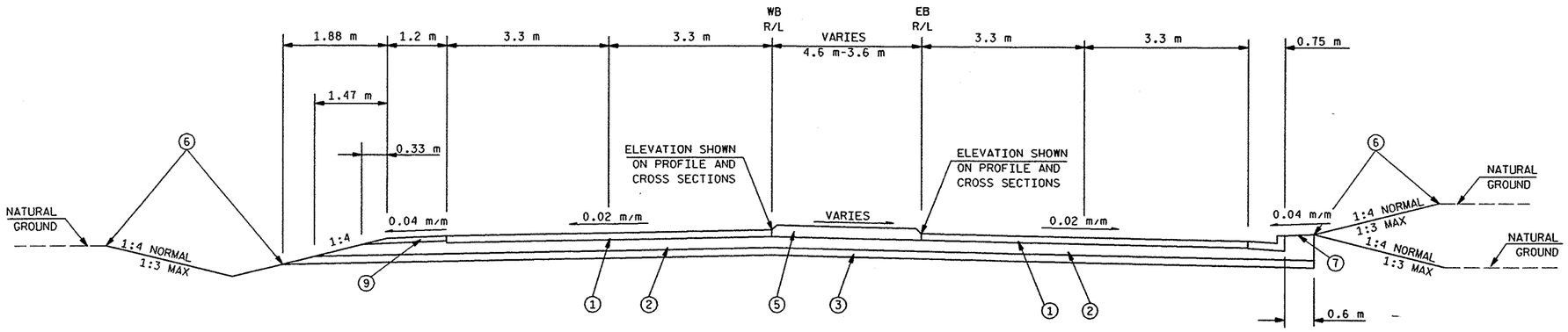
TYPICAL FINISHED SECTION FOR CTH JJ (E. EDGEWOOD DRIVE)

STA 1'EB' + 299.80 to STA 1'EB' + 316.50

TYPICAL SECTIONS FOR CTH JJ		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.8	M

WISDOT: MSHT40

FILE NAME: E1339A /SHEETS /PLAN2 /TYPO7 .2DG TECH/ENGR: / PLOT DATE: 08/03/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
LEVELS ON • 1,2,3,4,5,6,7,8, 9,10,11, 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, 59,60,61,62,

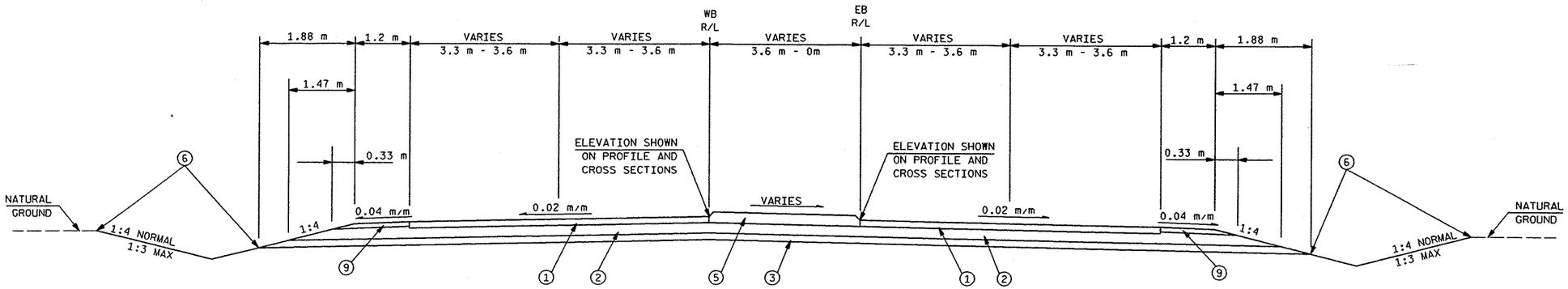


TYPICAL FINISHED SECTION FOR CTH JJ (E. EDGEWOOD DRIVE)

STA 1'EB' + 316.50 to STA 1'EB' + 327.60

LEGEND

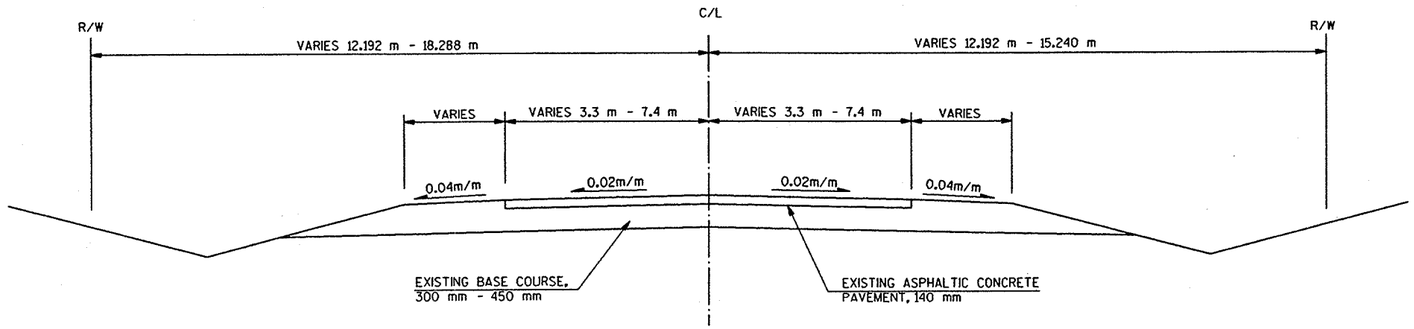
1. ASPHALTIC CONCRETE PAVEMENT, TYPE MV, 140 mm (40 mm UPPER COURSE OVER 2-50 mm LOWER COURSES
2. CRUSHED AGGREGATE BASE COURSE, 225 mm
3. BREAKER RUN, 150 mm (OR AS DIRECTED BY THE ENGINEER)
4. CONCRETE CURB AND GUTTER, 750 mm (30-INCH), TYPE D
5. CONCRETE CORRUGATED MEDIAN, 138 mm
6. SALVAGED TOPSOIL, FERTILIZE, SEED AND MULCH
7. TOPSOIL, FERTILIZE, AND SOD
8. BACKFILL WITH UNCLASSIFIED
9. CRUSHED AGGREGATE BASE COURSE FOR SHOULDERS



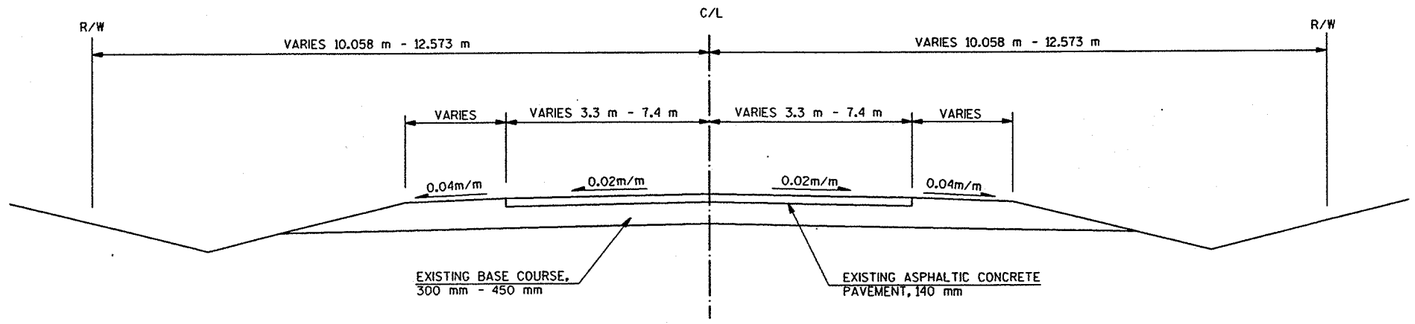
TYPICAL FINISHED SECTION FOR CTH JJ (E. EDGEWOOD DRIVE)

STA 1'EB' + 327.60 to STA 1'EB' + 369.37

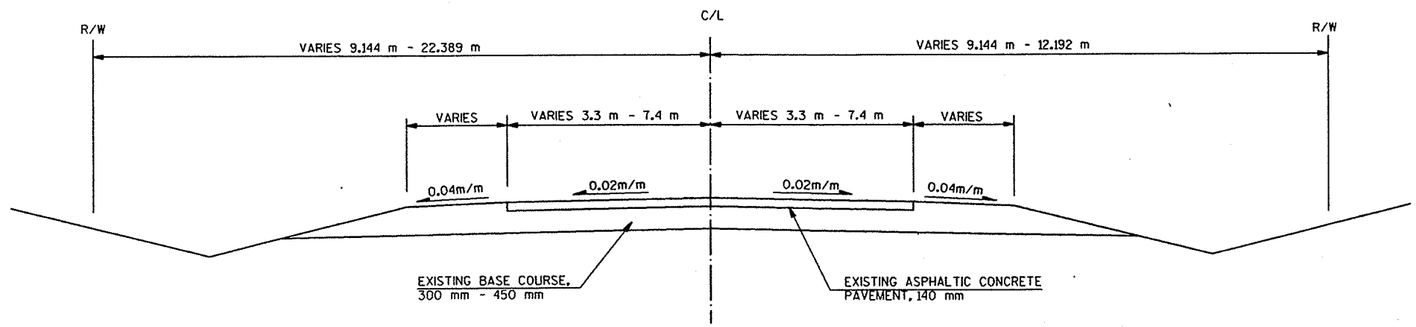
TYPICAL SECTIONS FOR CTH JJ		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.9	M



EXISTING TYPICAL SECTION FOR CTH E (N. BALLARD RD)



EXISTING TYPICAL SECTION FOR CTH JJ (EDGEWOOD DRIVE)

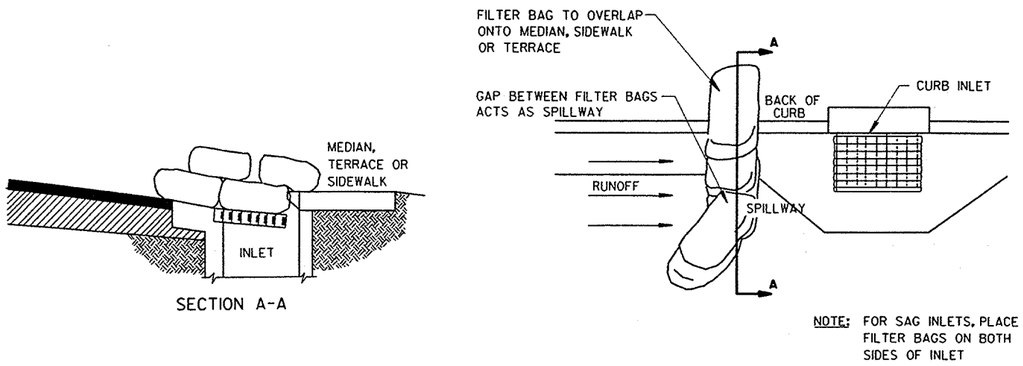


EXISTING TYPICAL SECTION FOR ASHBURY DRIVE

TYPICAL CROSS SECTIONS		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.10	M

WISDOT: MSHT40

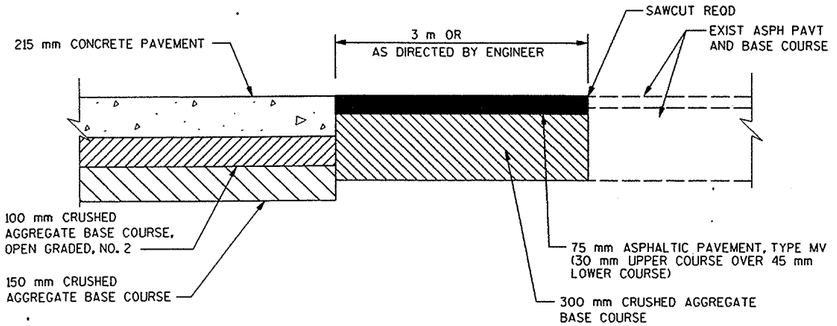
FILE NAME: E1339A98/SHEETS /PLAN /TYP09 .2DG TECH/ENGR: DPP/SDC PLOT DATE: 08/03/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57, 59,60,61,62,



NOTE: FOR SAG INLETS, PLACE FILTER BAGS ON BOTH SIDES OF INLET

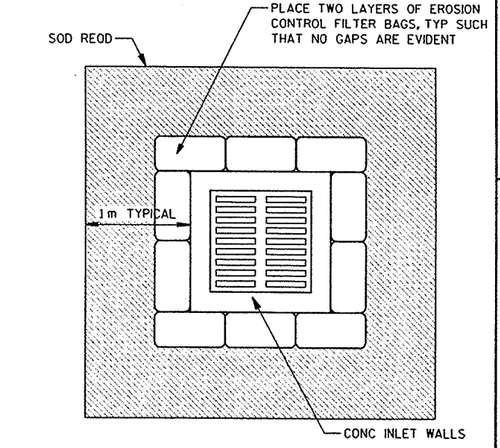
CURB INLET SEDIMENT BARRIER - CONTINUOUS GRADE

(FILTER BAG TYPE)

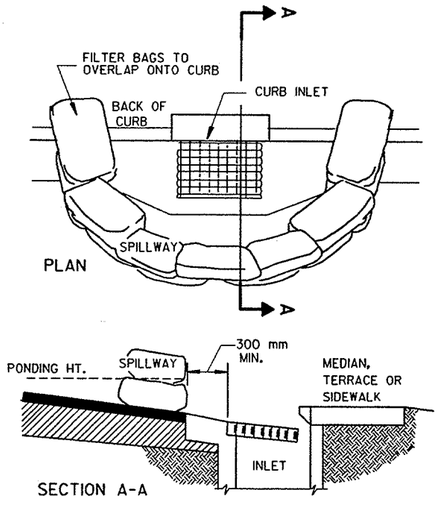


TRANSITION SECTION - SIDE STREETS

SILVER LEAF COURT, ASHBURY DRIVE AND MEMORY LANE

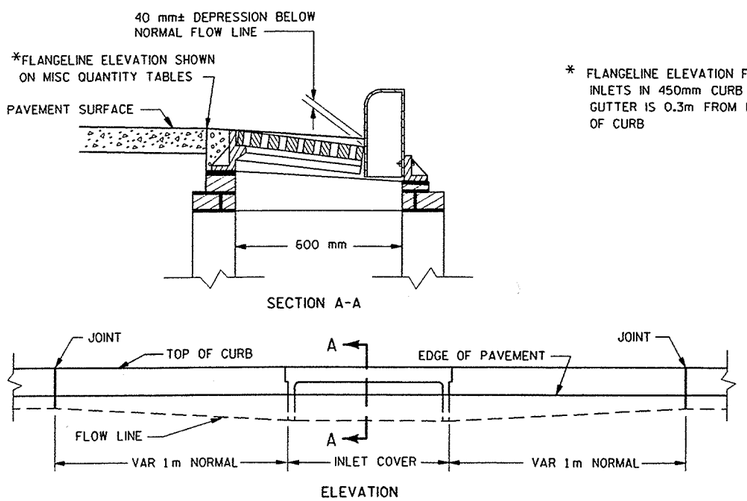


FILTER BAGS & SOD AT FIELD INLETS



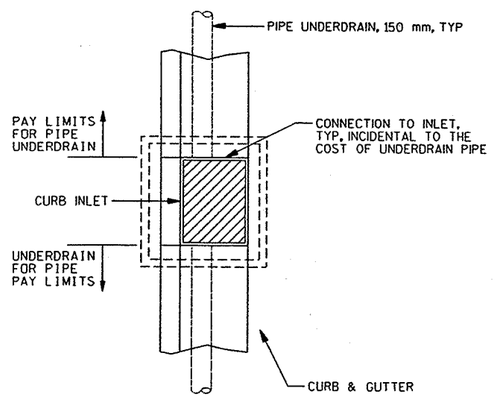
CURB INLET SEDIMENT BARRIER - SAG

(FILTER BAG TYPE)

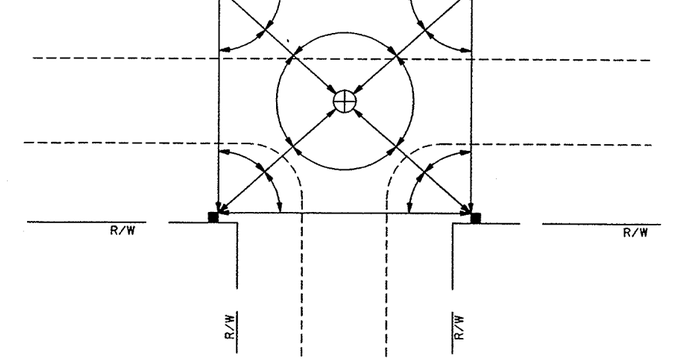


* FLANGELINE ELEVATION FOR INLETS IN 450mm CURB AND GUTTER IS 0.3m FROM FACE OF CURB

DETAIL OF CURB AND GUTTER AT INLETS



PIPE UNDERDRAIN CONNECTION TO CURB INLET



TYPICAL LAYOUT FOR LANDMARK REFERENCE MONUMENTS

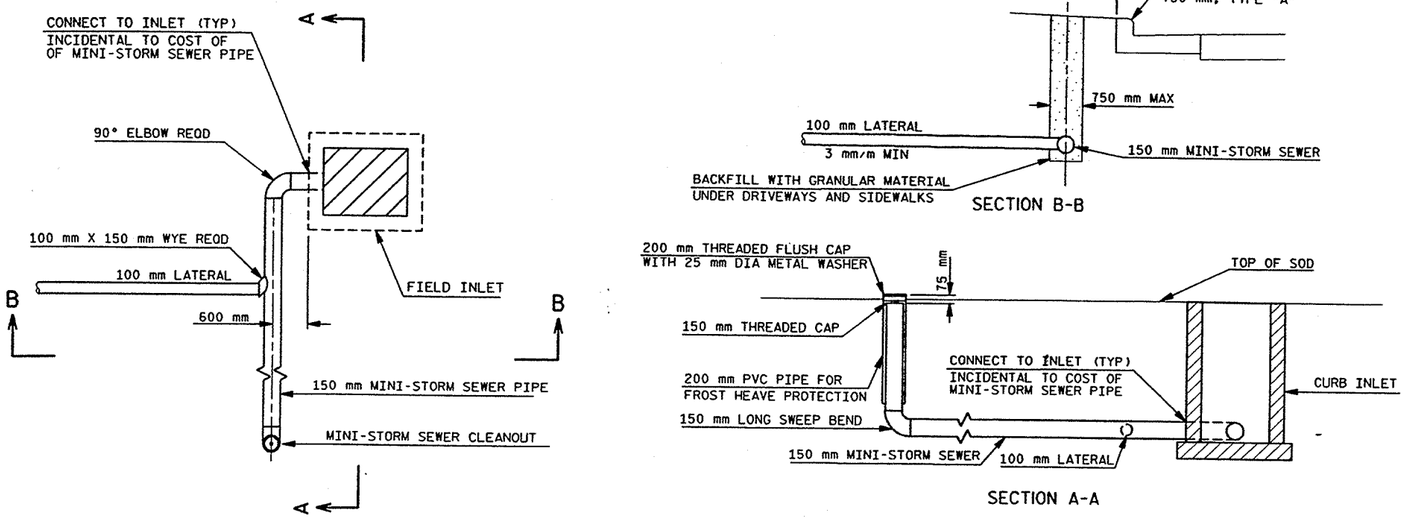
LEGEND

- ⊕ LANDMARK MONUMENT TO BE REFERENCED (TYPE A OR D EXCEPT WITHIN TRAVELLED ROADWAY) (BY OTHERS)
- ■ LANDMARK REFERENCE MONUMENT (NEW OR EXISTING) (TYPE A, C OR D)
- ↔ DISTANCES TO BE MEASURED
- ANGLES TO BE MEASURED

CONSTRUCTION DETAILS		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.11	M

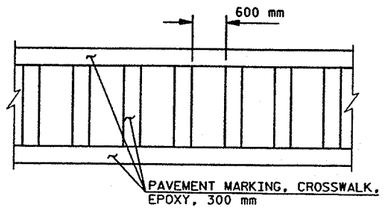
WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /DET01 .2DG TECH/ENGR: DPP/SDC PLOT SCALE: 1:
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON : 50,51, 56,57, 59, PLOT NAME: SEE FILE NAME PLOT DATE: 10/25/99



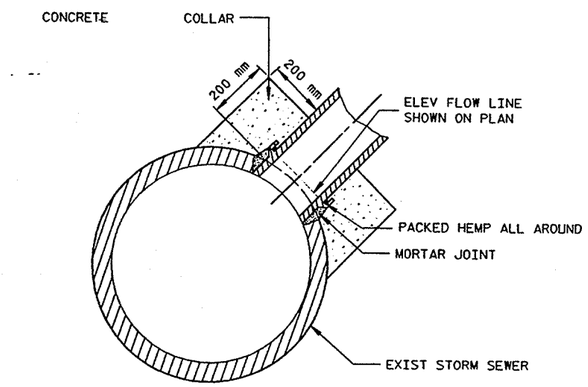
150 mm MINI-STORM SEWER DETAIL

STA 2'SB'+468 LT TO 2'SB'+510 LT



PAVEMENT MARKING, CROSSWALK AT AAL ENTRANCE

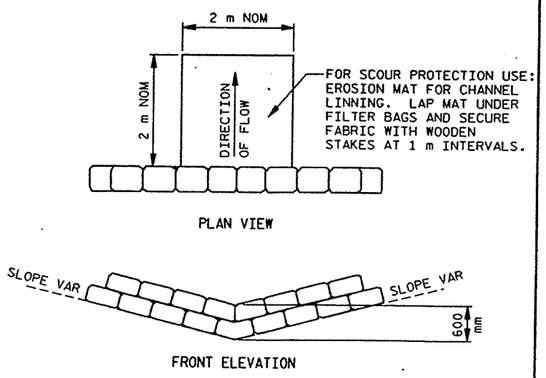
STA 1'SB'+486



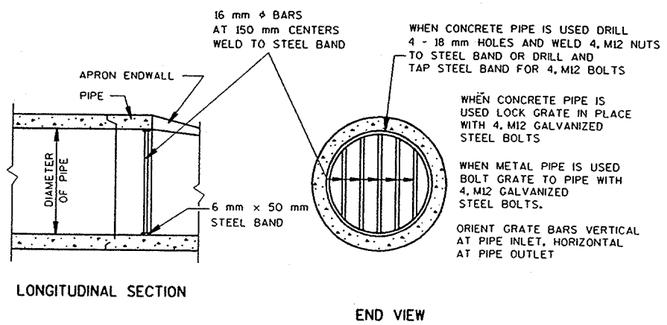
DETAIL OF CONNECTION TO STORM SEWER

NOTES:

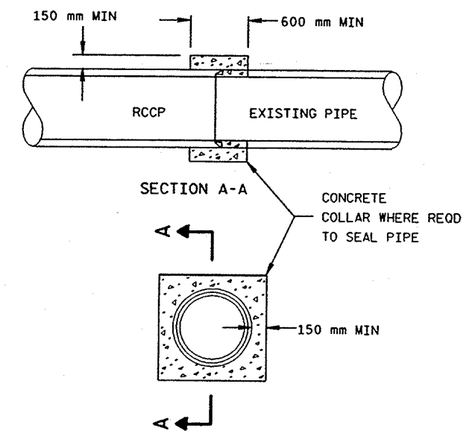
1) PLACE FILTER BAGS TIGHTLY AGAINST EACH OTHER TO PREVENT VOIDS.
2) STAGGER JOINTS BETWEEN BOTTOM AND TOP ROWS.
3) BOTTOM ELEVATION OF END FILTER BAG SHALL BE EQUAL TO OR GREATER THAN TOP OF LOWEST FILTER BAG.
4) DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DETAIL SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



FILTER BAG DITCH CHECK DETAIL



PIPE GRATE DETAIL



CONCRETE COLLAR

FILE NAME: E1339A98/SHEETS /PLAN /DETO2 .2DG TECH/ENGR: DPP/SDC
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON • 1.2.3.4.5.6. PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
50.51. 56.57. 59. PLOT DATE: 05/ /99 REV. DATE: 02/02/00

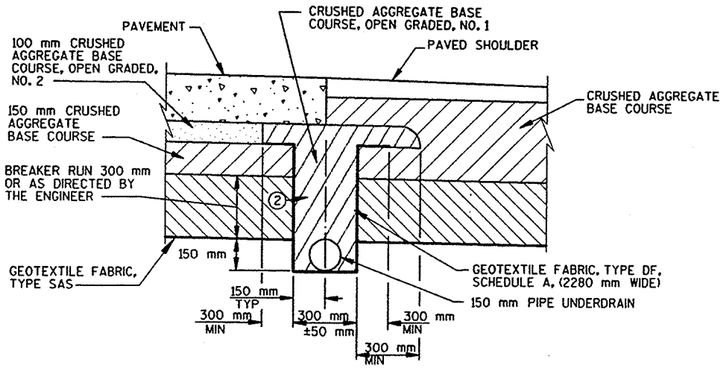
NOTES

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

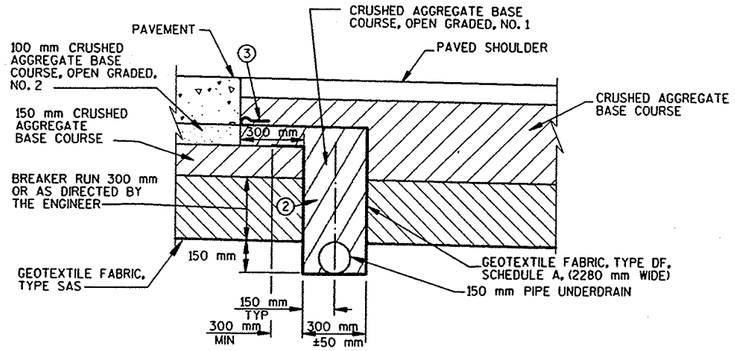
① TOTAL FABRIC WIDTH IS 2280 mm

② TRENCH BACKFILL WILL BE PAID FOR AS CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 1.

③ FOLD OVER EXCESS GEOTEXTILE FABRIC AT THIS LOCATION.

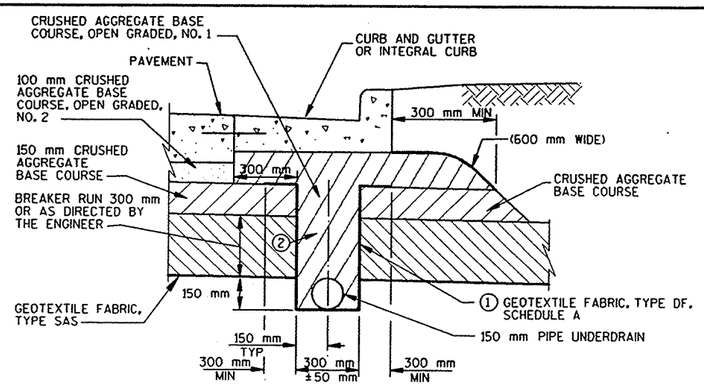


PRE-PAVING INSTALLATION ALTERNATIVE

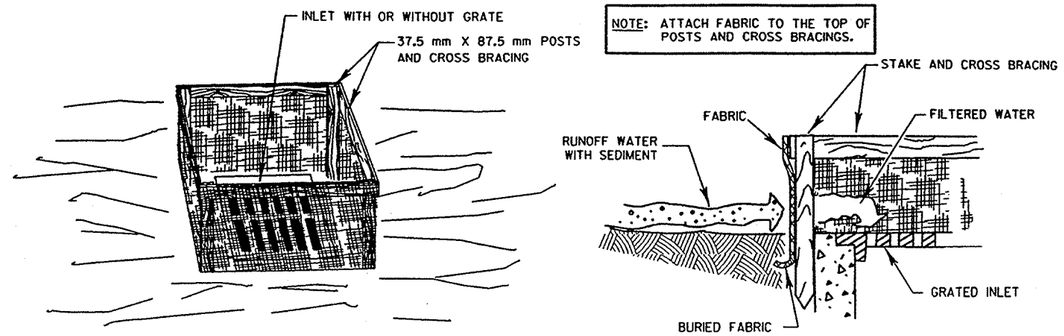


POST PAVING INSTALLATION

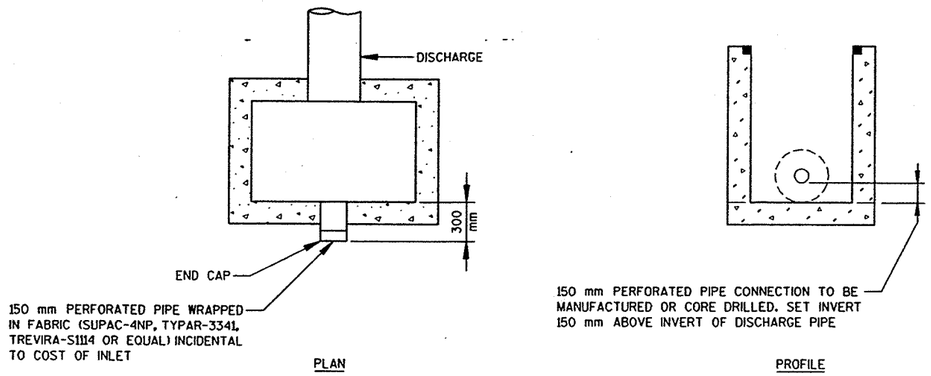
EDGEDRAIN IN RURAL ROADWAY



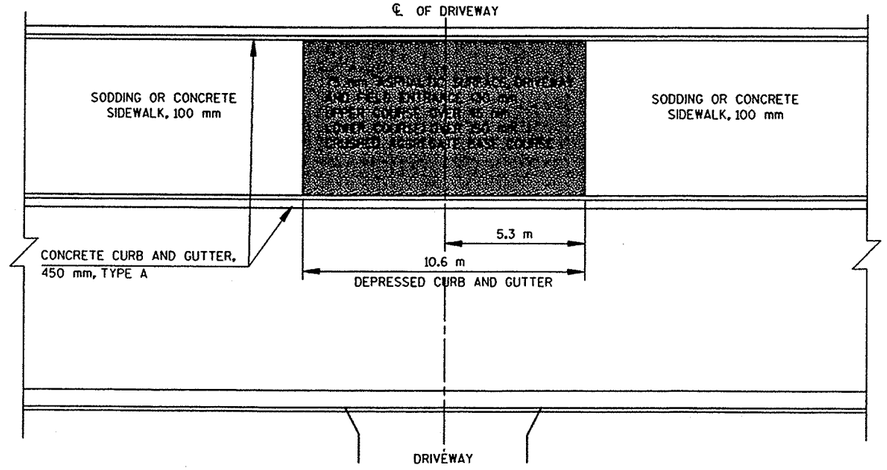
EDGEDRAIN IN URBAN ROADWAY



SILT FENCE INLET SEDIMENT BARRIER

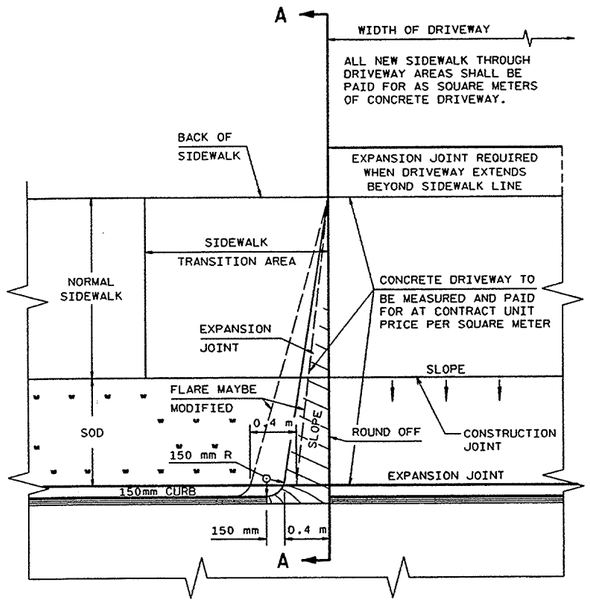


UNDERDRAIN CONNECTION DETAIL

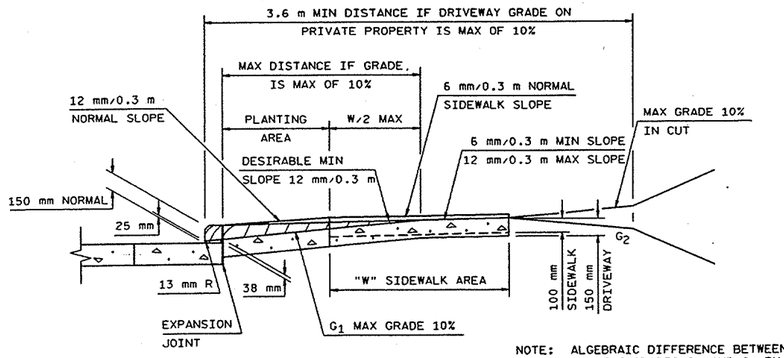


DRIVEWAY MEDIAN OPENING

FILE NAME: E1339A98/SHEETS /PLAN /DET04 .2DG TECH/ENGR: DPP/SDC
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON • 1. PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
50.51, 56, 59, PLOT DATE: 10/25/99
02/02/00



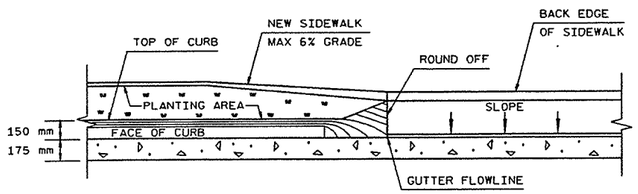
PLAN



NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G_1 AND G_2 EXTENDED IN FILLS MAX 15%.

SECTION A-A

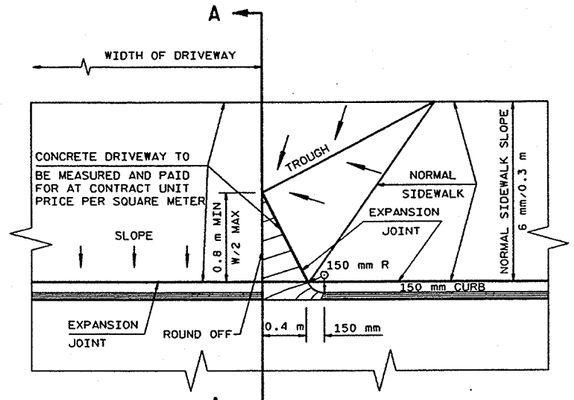
PROFILES PARALLEL TO ℄ OF DRIVEWAY



PROFILES PARALLEL TO CENTERLINE OF ROADWAY

CONCRETE DRIVEWAY

WHEN SIDEWALK IS SEPARATED FROM CURB BY PLANTING AREA



PLAN

WIDTH OF DRIVEWAYS

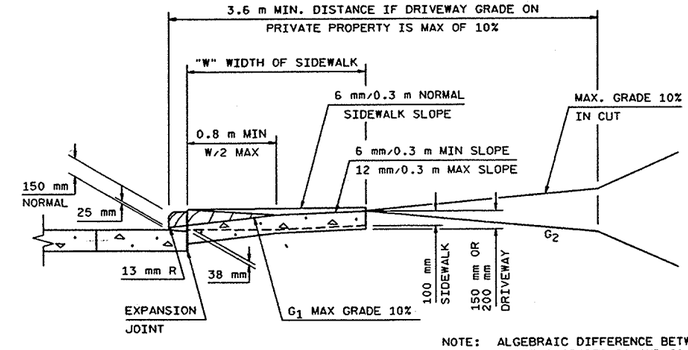
SINGLE OR COMBINATION MEASURED AT RIGHT ANGLES TO CENTERLINE OF DRIVEWAY.

RURAL	-	NON-COMMERCIAL	7.2 m MAX
URBAN	-	NON-COMMERCIAL	7.2 m MAX
URBAN	-	COMMERCIAL	10.5 m MAX

NOTE: NON-PAVED DRIVEWAYS SHALL CONSIST OF 150 mm OF CRUSHED AGGREGATE BASE COURSE.

ASPHALTIC DRIVEWAYS AND PARKING LOTS SHALL CONSIST OF 150 mm OF CRUSHED AGGREGATE BASE COURSE AND 75 mm OF ASPHALTIC PAVEMENT, TYPE MV.

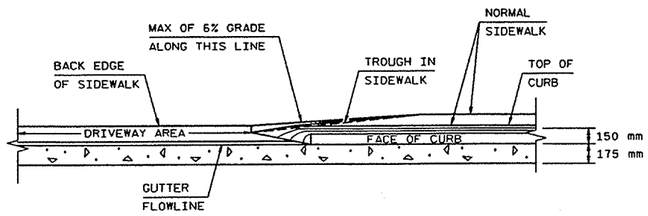
CONCRETE DRIVEWAY SHALL CONSIST OF 150 mm CONCRETE DRIVEWAY FOR RESIDENTIAL ENTRANCES AND 200 mm OF CONCRETE DRIVEWAY FOR COMMERCIAL ENTRANCES (SEE MISCELLANEOUS QUANTITY TABLES).



NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 AND G2 EXTENDED IN FILLS MAX 15%.

SECTION A-A

PROFILES PARALLEL TO ℄ OF DRIVEWAY

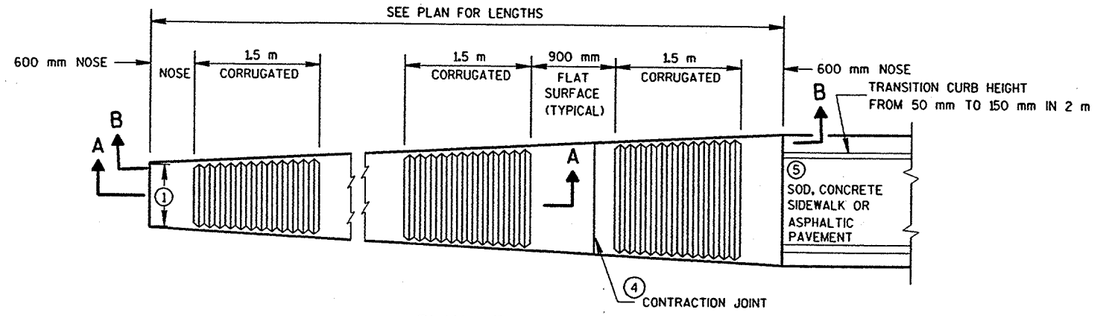


PROFILES PARALLEL TO CENTERLINE OF ROADWAY

CONCRETE DRIVEWAY

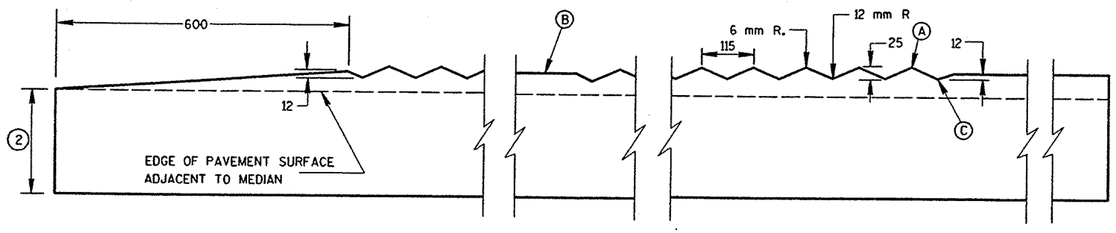
WHEN SIDEWALK IS IMMEDIATELY ADJACENT TO CURB

FILE NAME: E1339A98/SHEETS /PLAN /DET03 .2DG TECH/ENGR: DPP/SDC PLOT DATE: 05/ /99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
51. 56. 59.



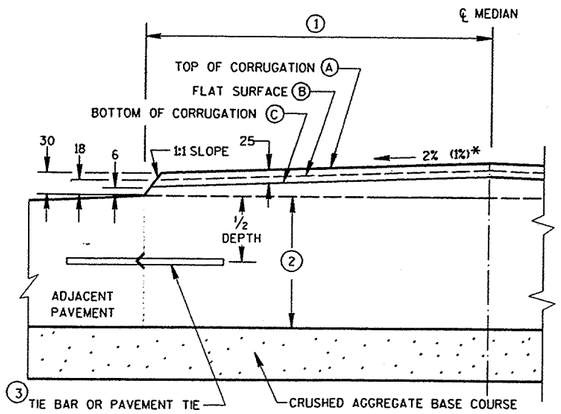
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A

LONGITUDINAL SECTION



HALF CROSS SECTION

② CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT

* I'EB'+073.4 - I'EB'+155

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.

WHEN REQUIRED IN THE CONTRACT, FLAT SURFACES BETWEEN THE CORRUGATIONS SHALL BE MARKED WITH YELLOW PAVEMENT MARKING.

① SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.

② THE DEPTH OF THE CONCRETE MEDIAN SHALL EQUAL THE DEPTH OF THE ADJACENT PAVEMENT STRUCTURE.

ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:

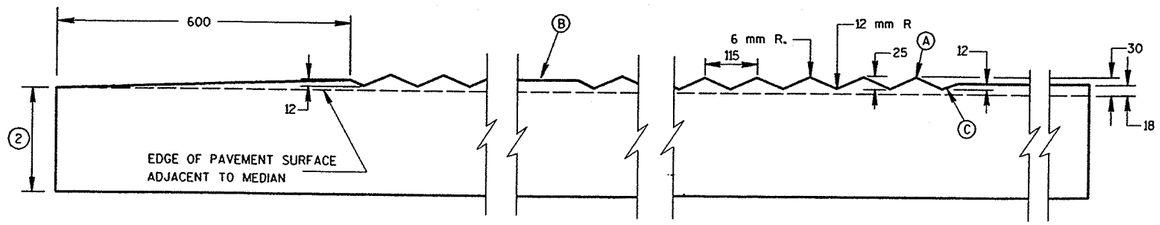
(1) NEW OR EXISTING CONCRETE PAVEMENT.
(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE.
(3) ASPHALTIC PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

③ TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 13 X 600 mm SPACED AT 600 mm C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR CONCRETE BASE COURSE, PAVEMENT TIES SHALL BE NO. 19 X 300 mm SPACED AT 900 mm C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

④ CONCRETE PAVEMENT TRANSVERSE CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH CRUSHED AGGREGATE BASE, TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 6 m INTERVALS.

⑤ SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.



SECTION B-B

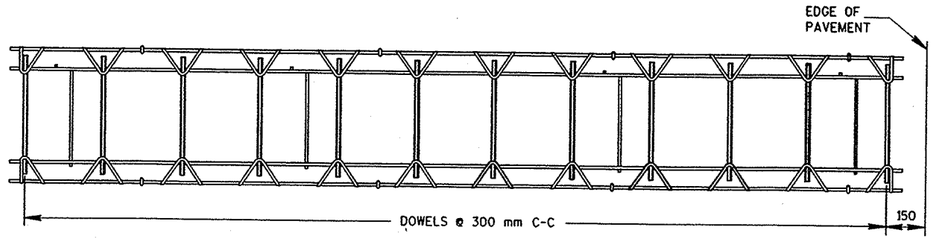
LONGITUDINAL SECTION

NOTE:

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

CONSTRUCTION DETAILS		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.15	M

WISDOT: MSHT40



PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY①

PAVEMENT DEPTH, DOWEL BAR SIZE TABLE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D) in mm	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
150, 165	32 mm	3.6 m
175,190	32 mm	4.3 m
200, 215	32 mm	4.5 m
225, 240	32 mm	4.5 m
ABOVE 250	38 mm	5.5 m

GENERAL NOTES

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

CONTRACTION JOINTS

UNLESS OTHERWISE SPECIFIED, CONTRACTION JOINTS SHALL NORMAL TO THE CENTERLINE. THE LOCATION OF CONTRACTION JOINTS THRU INTERSECTIONS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DOWEL BARS SHALL BE INSTALLED PARALLEL TO THE PAVEMENT CENTERLINE AND SURFACE.

CONSTRUCTION JOINTS

CONSTRUCITON JOINTS SHALL BE A MINIMUM OF 1.2 m FROM THE NEAREST CONTRACTION JOINT AND ALIGNED EITHER PARALLEL TO CONTRACTION JOINTS OR AT 90° TO THE CENTERLINE.

TIE BARS MAY BE INSERTED THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN POURED.

1 ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY MAY BE USED WHEN APPROVED BY THE ENGINEER. MECHANICAL DOWEL BAR IMPLANTERS MAY BE USED INSTEAD OF DOWEL ASSEMBLIES.

2 DOWEL BARS SHALL BE ANCHORED INTO DRILL HOLES WITH AN APPROVED EPOXY GROUT.

3 THE FREE END OF DOWEL BARS SHALL RECEIVE A THIN UNIFORM COATING OF BOND BREAKING GREASE.

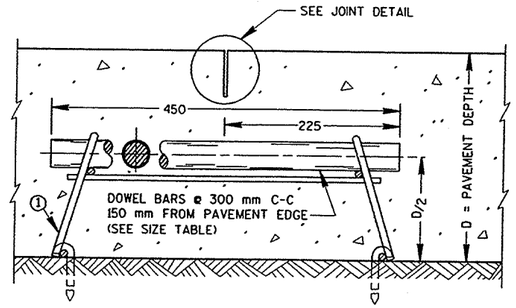
THE CLEAR DISTANCE FROM THE EDGE OF PAVEMENT OR LOGITUDINAL JOINT TO THE NEAR EDGE OF DOWEL BAR NEAREST THAT EDGE OR JOINT SHALL BE A MINIMUM OF 150 mm AND A MIXIMUM OF 355 mm.

NOTE

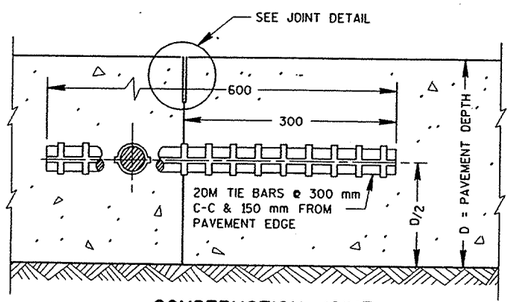
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE SHOWN.

PAY LIMITS FOR SEALING JOINTS SHALL BE MEASURED HORIZONTALLY FROM BACK OF CURB TO BACK OF CURB.

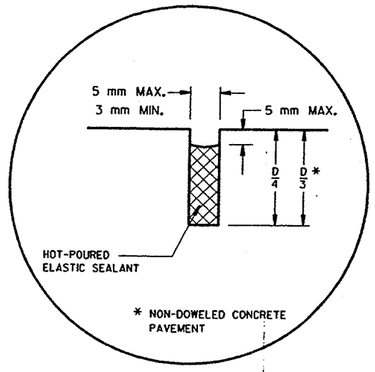
SEALING OF CURB AND GUTTER FLANGE LINE JOINT SHALL BE INCLUDED IN THIS MEASUREMENT.



DOWELED CONTRACTION JOINT

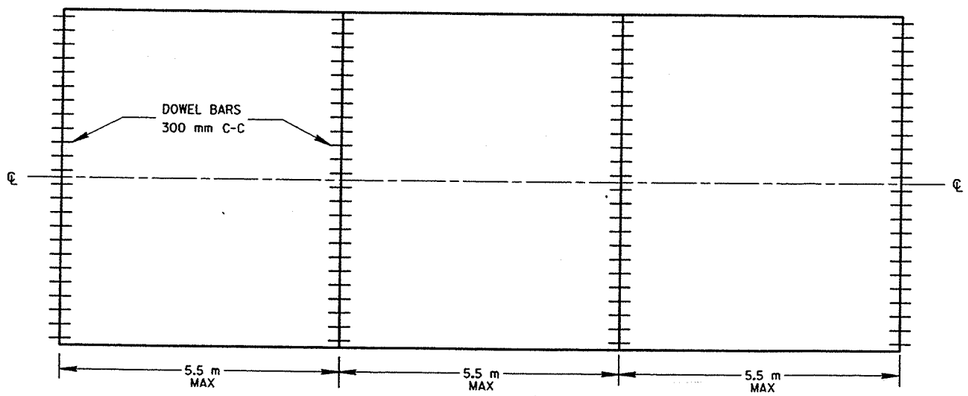


CONSTRUCTION JOINT



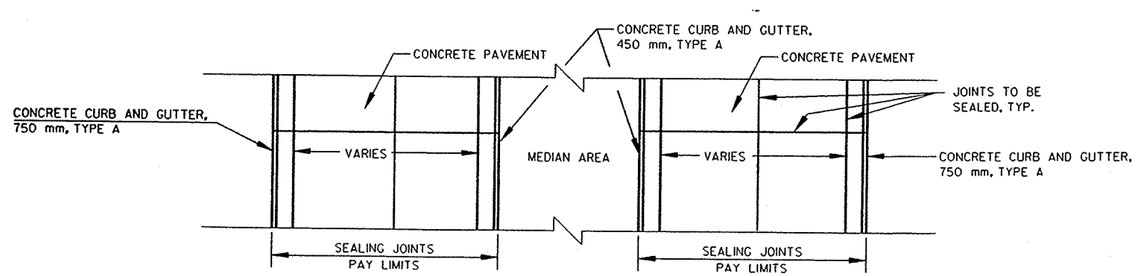
DETAIL "A"

HOT POURED ELASTIC JOINT SEAL



CONTRACTION JOINT LOCATIONS

(TRANSVERSE JOINTS SPACED AT 5.5 m & NORMAL)



SEALING JOINTS PAY LIMIT DIAGRAM

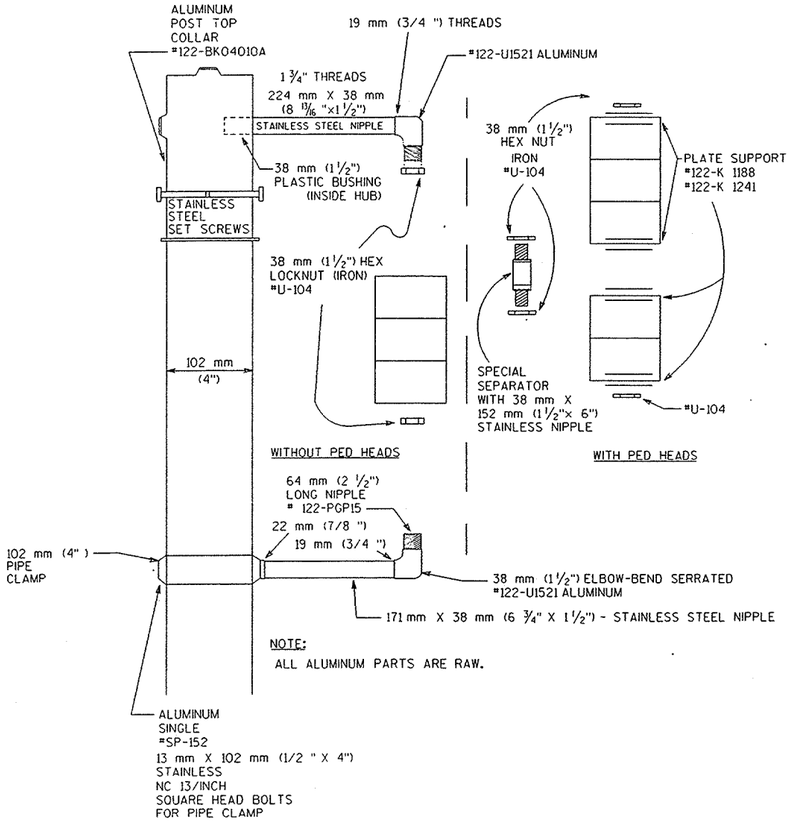
CONSTRUCTION DETAILS		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.16	M

WISDOT: MSHT40

FILE NAME: E1339498/SHEETS /PLAN /DET06 .2DG TECH/ENGR: CRK/SDC PLOT DATE: 10/25/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1, 5, 51, 56, 59, PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

CITY OF APPLETON TYPICAL TRAFFIC SIGNAL POLE AND HARDWARE ITEM LIST
SINGLE TRAFFIC STANDARD

NUMBER	ITEM
203-00014	BASE, ALUM, SQ, NO PAINT, W/ALUM TAPCO DOOR PB-5334-01
373-13	PIPE, ALUM, SCHED 40, 6061-T6.13', 4.5 O.D. T.O.E.
SA-103A-1111YBB	SIGNAL, 3 SEC 12" POLY W/TUN WISDOT SPEC
122-BPD503AN	BACKPLATES-VERTICAL
122-BK04010A	COLLAR POST TOP BK040-10A PN# A31435 UNPAINTED
SP-152	CLAMP 4", POLE, SING HUB UJ-152 UNPAINTED
122-K1188	PLATE SUPRT 2" HOLE K-1188 SM-0225-FHWA YEL
122-K1241	PLAT SUPRT 2.8125 K-1241 SM-0226-FHWA YEL
122-U104	LOCKNUTS U-104 P/N# M30244
122-U1521	ELBOW 1 END SERRATED U-1521 FROM U1616 & U847 PN# M311
122-PGP15	NIPPLE - 1½" PGP-15 PN#380200
122-U-1616	RING, SERRATED U-1616 WHITE NYLON PN# M20466
SP-810526	SERRATED RING - ALUM-A-810526
122-EJ3	PEDESTRIAN PUSHBUTTON PED. E13 WITH MUSHROOM CAP.
SA-302B-1212YBB	SIGNAL, 2 SEC 12" PED SYMBOLS W/CUTAWAY VISORS



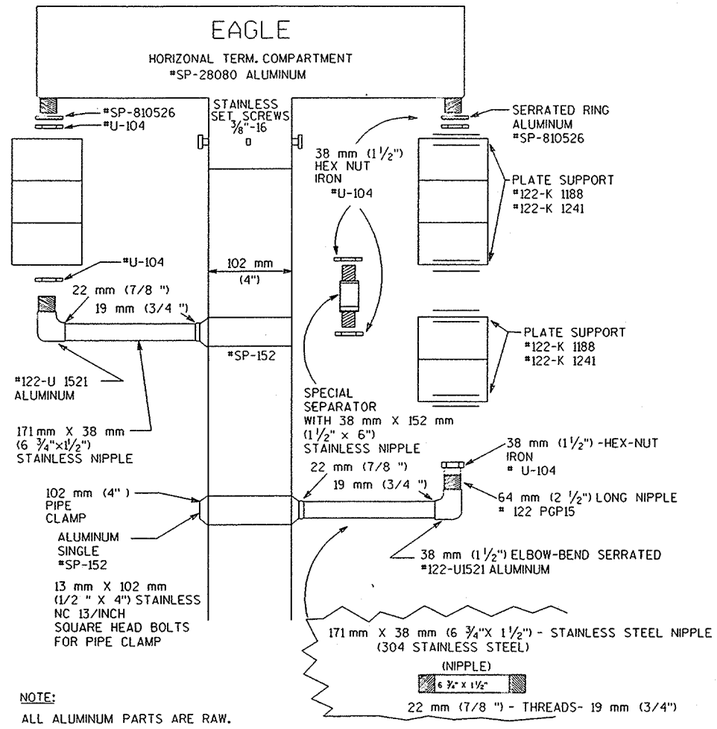
NOTE:
ALL ALUMINUM PARTS ARE RAW.

TRAFFIC STANDARD (SINGLE)

CITY OF APPLETON
TRAFFIC DIVISION
DEPARTMENT OF PUBLIC WORKS

CITY OF APPLETON TYPICAL TRAFFIC SIGNAL POLE AND HARDWARE ITEM LIST
DOUBLE TRAFFIC STANDARD

NUMBER	ITEM
203-00014	BASE, ALUM, SQ, NO PAINT, W/ALUM TAPCO DOOR PB-5334-01
373-13	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13 FEET
SA-103A-1111YBB	TRAFFIC SIGNAL FACES, 3-12 VERTICAL WITH TUNNEL
122-BPD503AN	BACKPLATES - VERTICAL
SP-28080	COMP TERM HORIZ BK280-20A UNPAINTED
SP-152	CLAMP 4", POLE, SING HUB UJ-152 UNPAINTED
122-K1188	PLATE SUPRT 2" HOLE K-1188 SM-0225-FHWA YEL.
122-K1241	PLATE SUPRT 2.8125 K-1241 SM-0226-FHWA YEL
122-U104	LOCKNUTS U-104 P/N# M30244
122-U1521	ELBOW 1 END SERRATED U-1521 FROM U1616 & U847 PN# M311
122-PGP15	NIPPLE - 1½" PGP-15 PN#380200
122-U-1616	RING, SERRATED U-1616 WHITE NYLON PN# M20466
SP-810526	SERRATED RING - ALUM-A-810526
122-EJ3	PEDESTRIAN PUSHBUTTON PED. E13 WITH MUSHROOM CAP.
SA-302B-1111YBB	PEDESTRIAN SIGNAL FACES, 12 INCH, CUT AWAY SYMBOL



NOTE:
ALL ALUMINUM PARTS ARE RAW.

TRAFFIC STANDARD (DOUBLE)

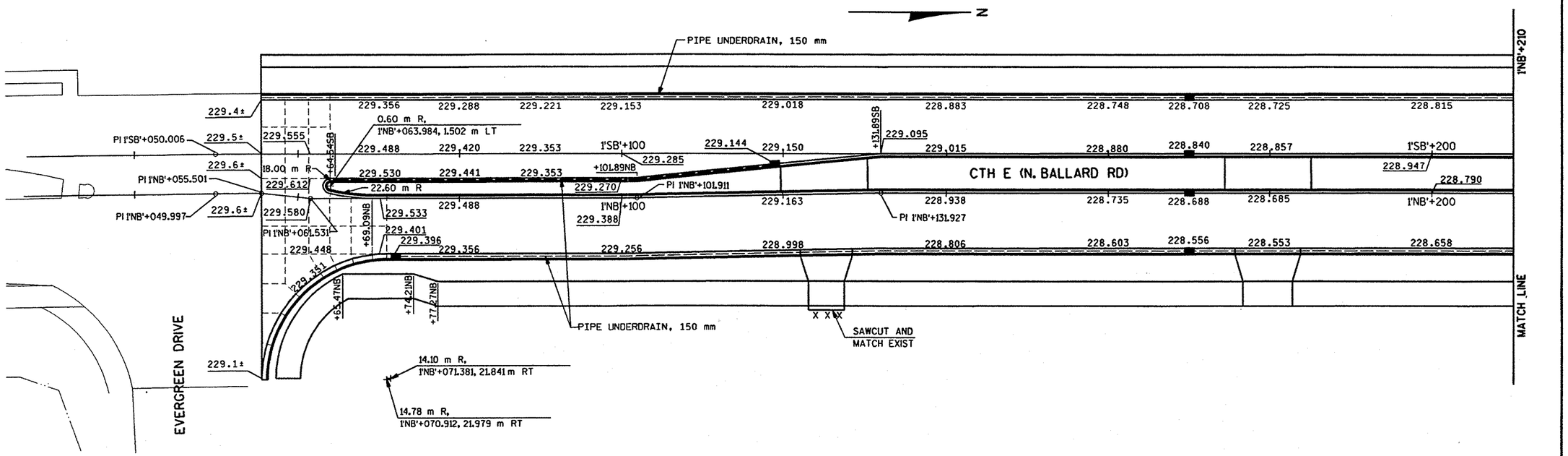
CITY OF APPLETON
TRAFFIC DIVISION
DEPARTMENT OF PUBLIC WORKS

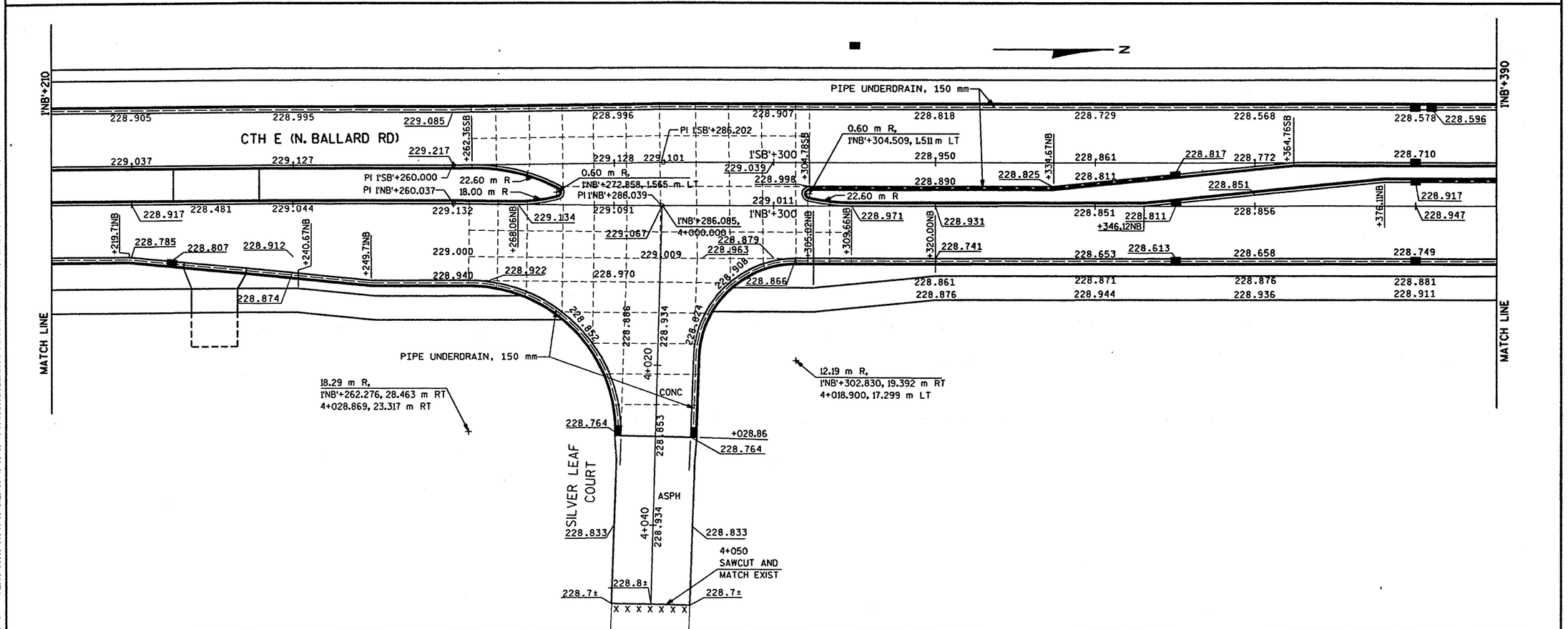
TRAFFIC SIGNAL MOUNTING HARDWARE

CONSTRUCTION DETAILS		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.17 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /DET05 .2DG TECH/ENGR: DPP/SDC PLOT DATE: 05/ /99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
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, 59,60,61,62.

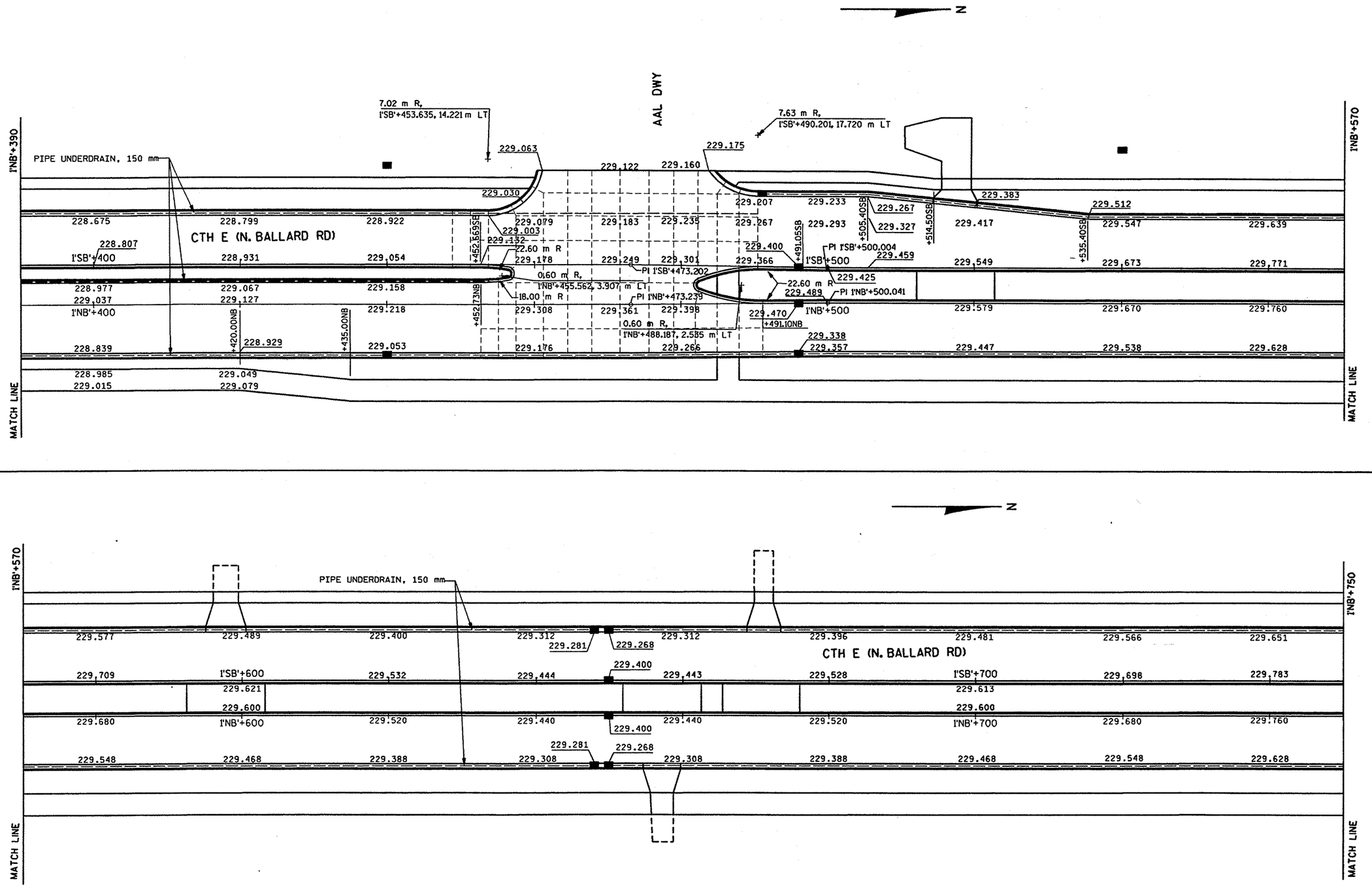




PAVING DETAILS FOR CTH E (N. BALLARD RD)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 2.18 M

FILE NAME: E1339A98/SHEETS /PLAN /PD01 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 04/ /99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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. 59.60.61.62.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

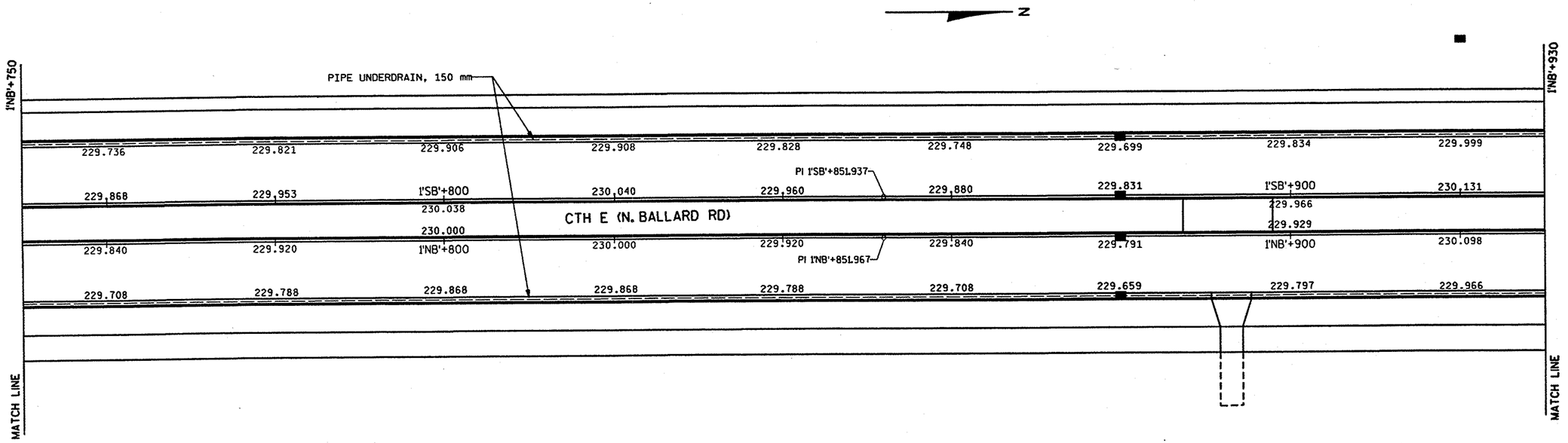
WisDOT: MSHT40

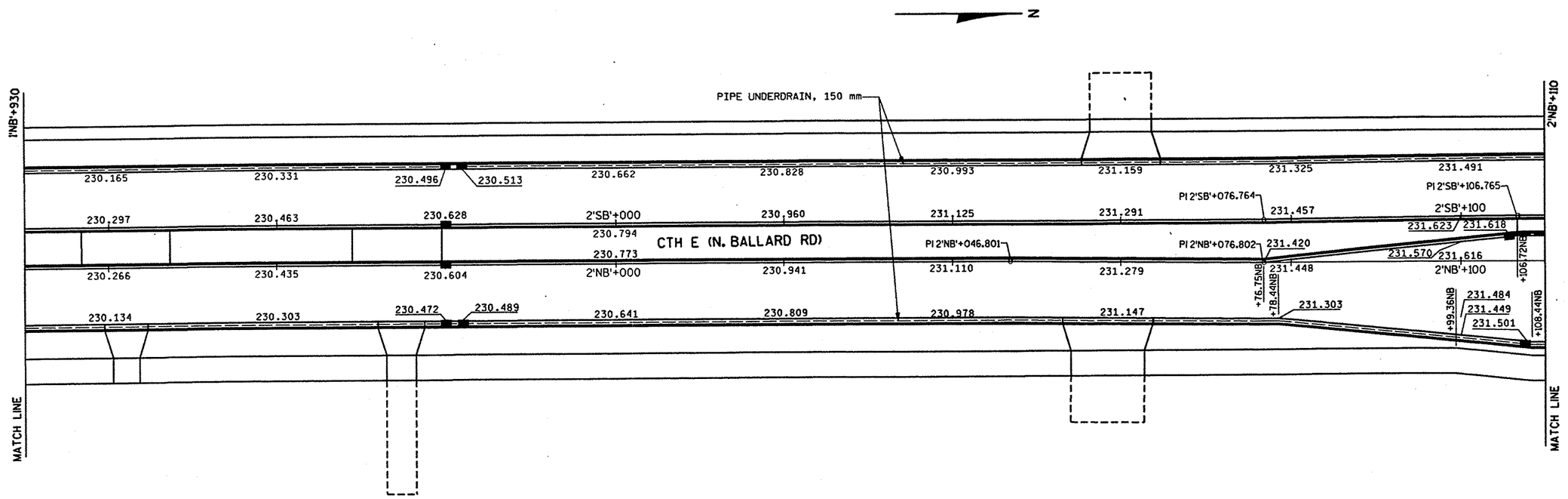


PAVING DETAILS FOR CTH E (N. BALLARD RD) | 0 5 10 | HWY: CTH E | COUNTY: OUTGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.19 | M

WisDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PDO2 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 10/14/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:





PAVING DETAILS FOR CTH E (N. BALLARD RD) | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.20 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PD03 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 04/ /99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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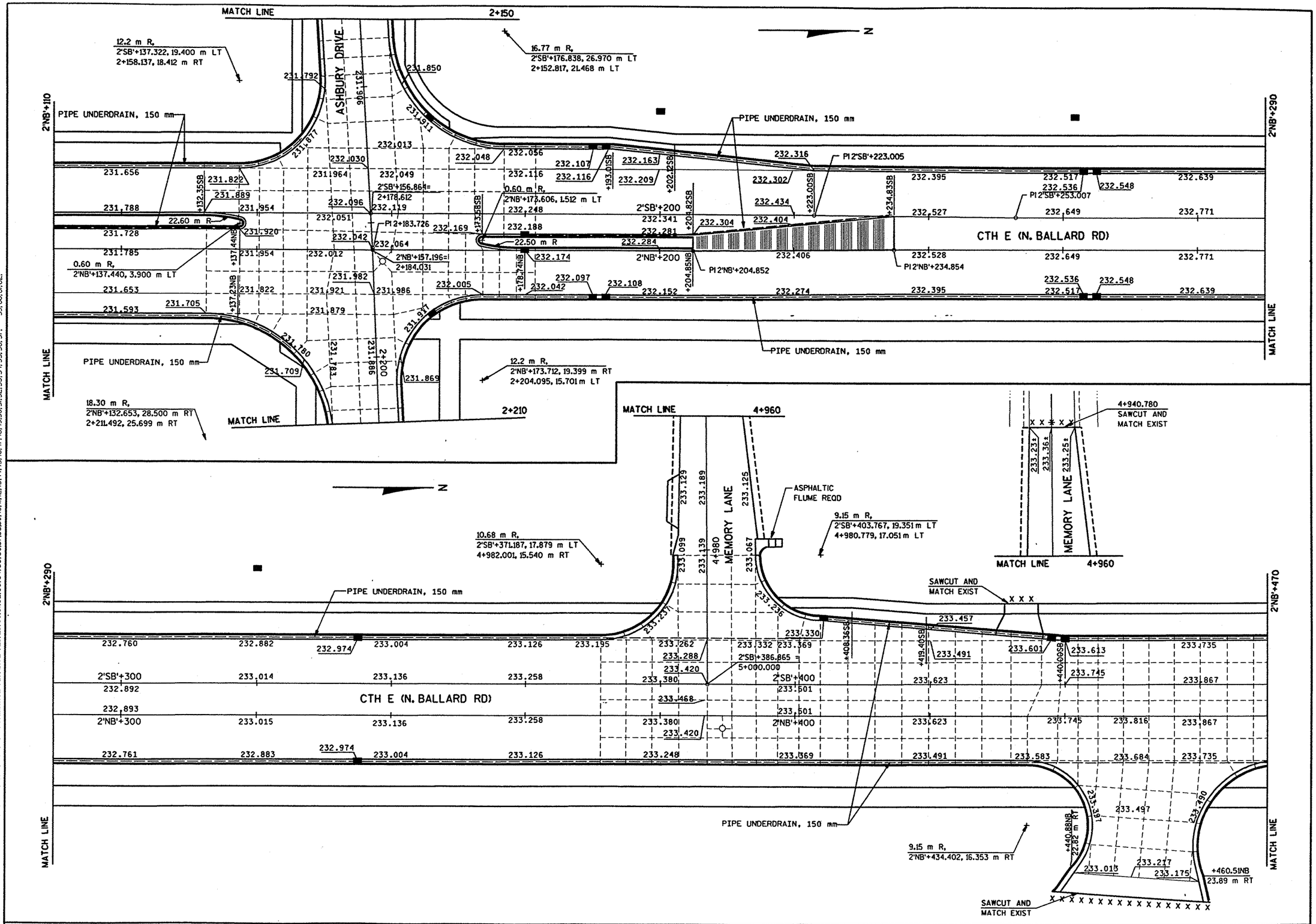
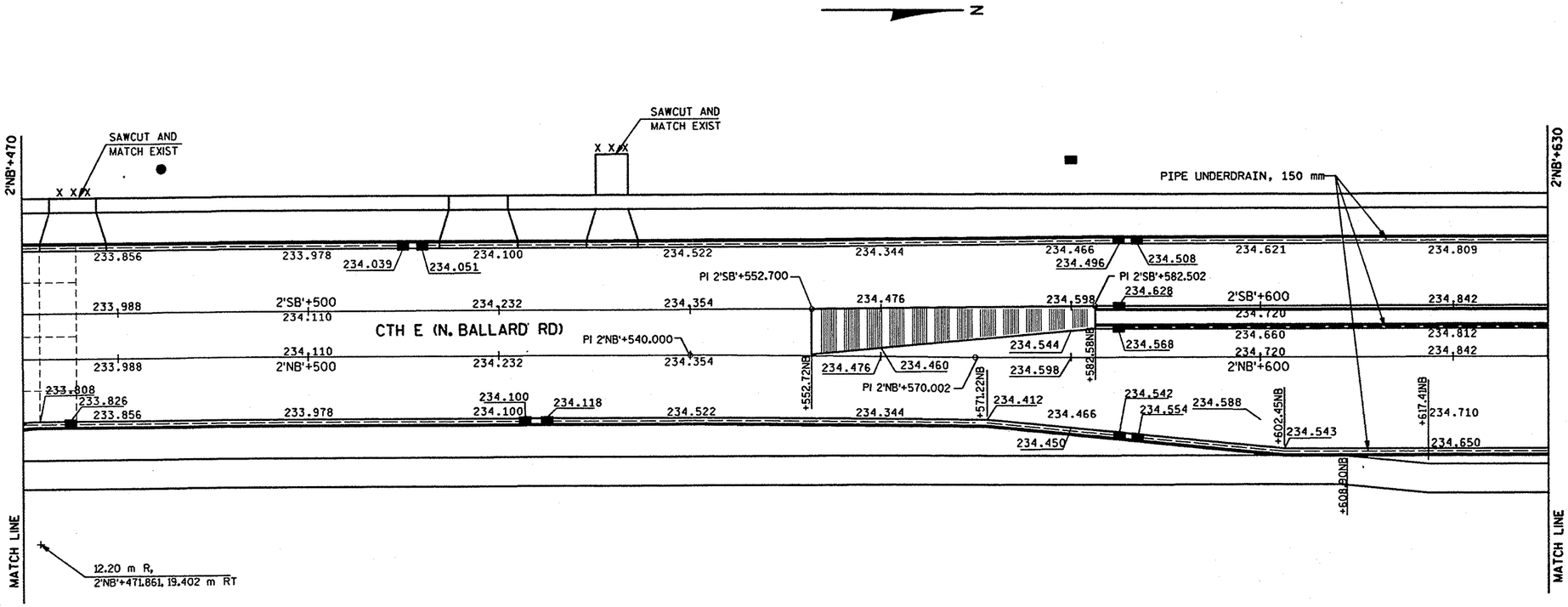
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



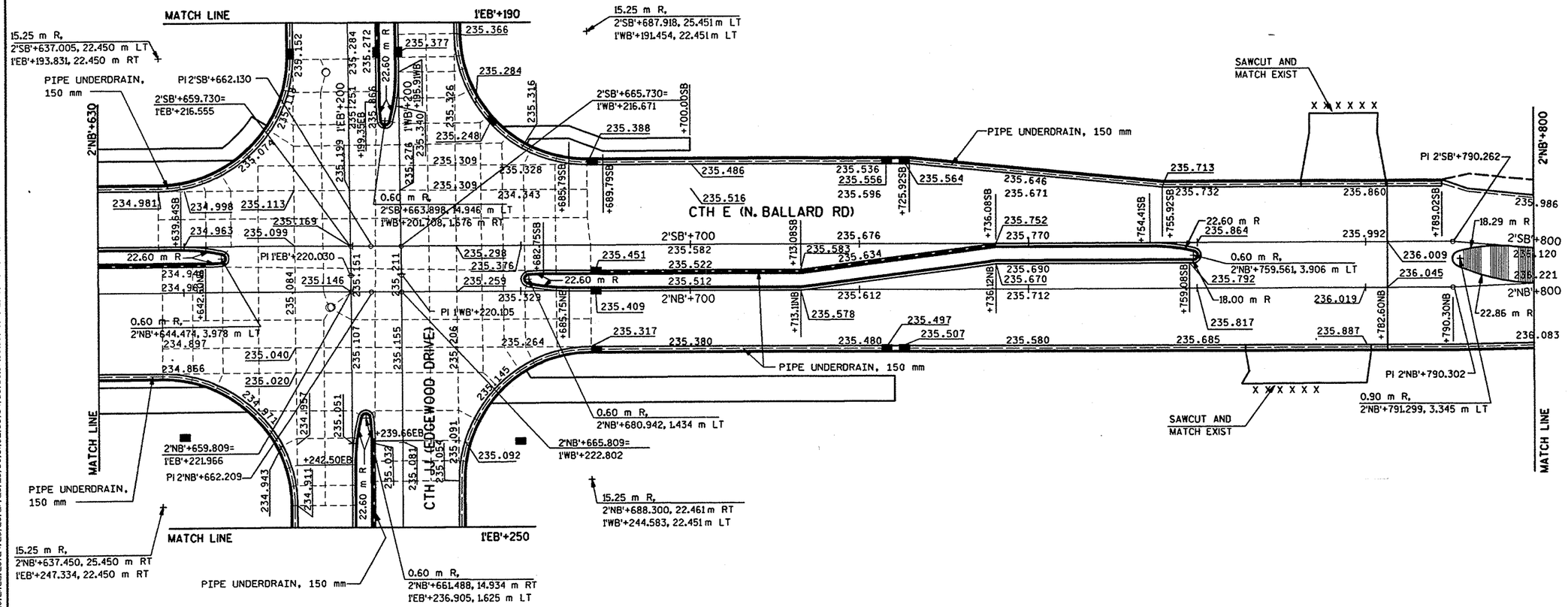
PAVING DETAILS FOR CTH E (N. BALLARD RD)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 2.21	M

WisDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PD04 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 04/ /99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00
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. 59.60.61.62.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



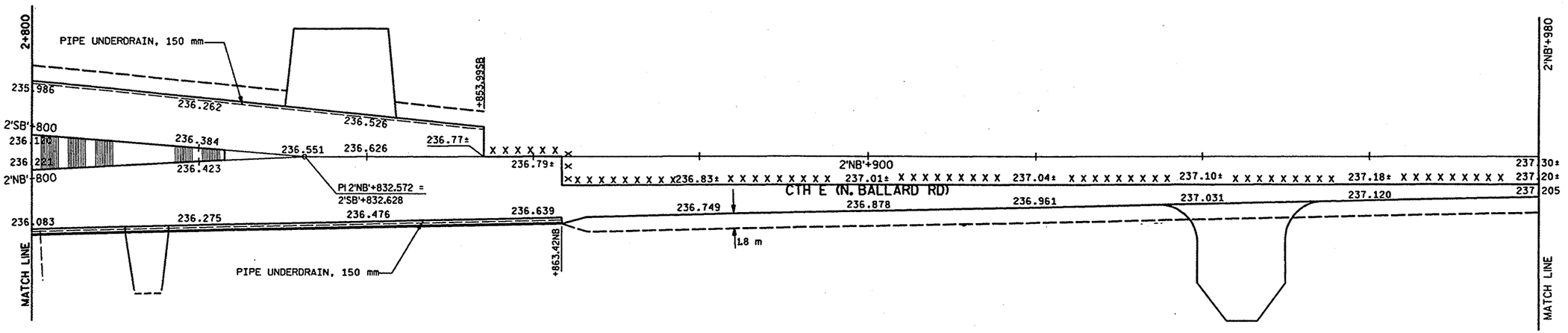
PAVING DETAILS FOR CTH E (N. BALLARD RD)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.22 M



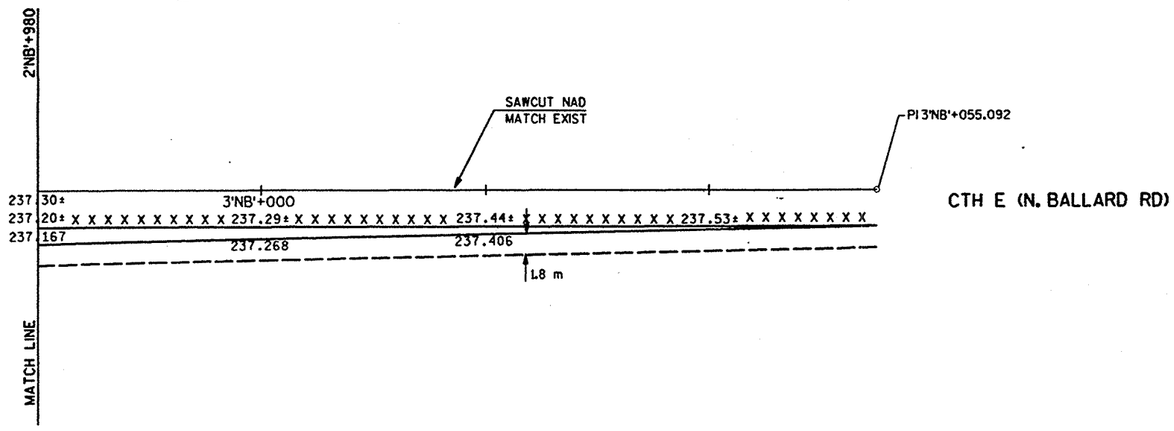
PAVING DETAILS FOR CTH E (N. BALLARD RD)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.23 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PDO6 .DGN TECH/ENGR: DPP/SDC PLOT SCALE: 1:
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT DATE: 04/ /99
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, 59, 60, 61, 62.



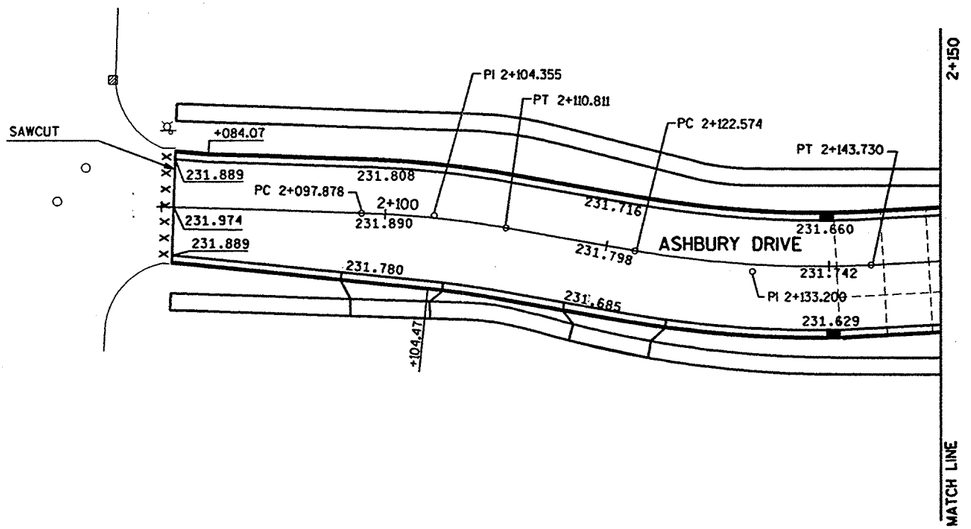
RAVENSWOOD CT

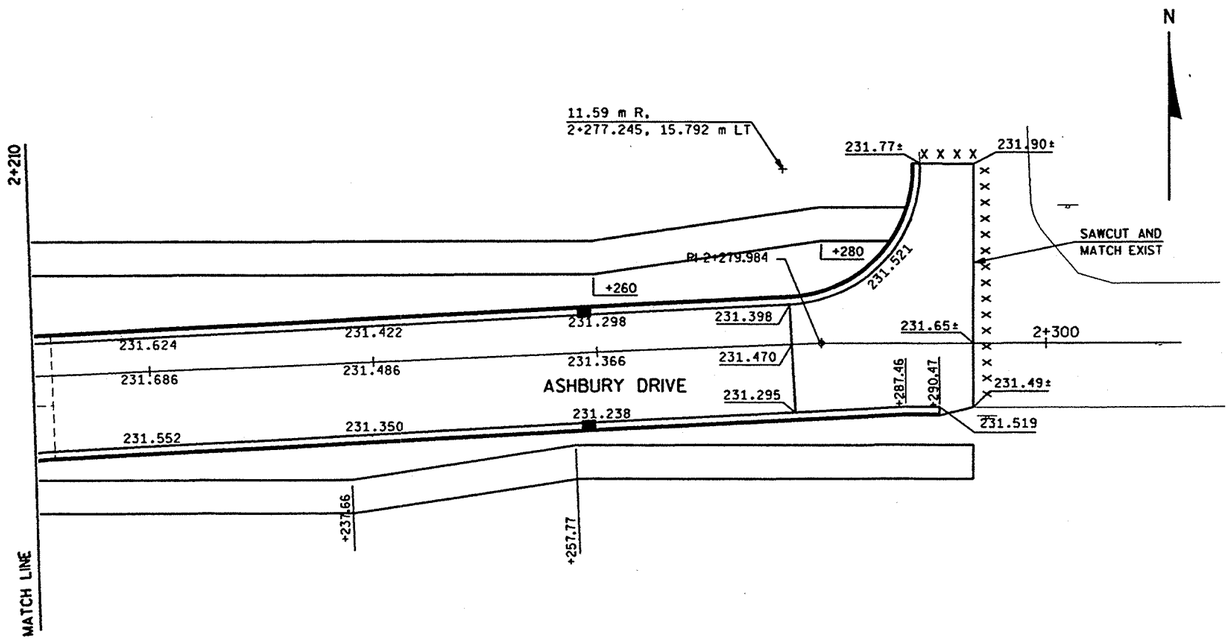


PAVING DETAILS FOR CTH E (N. BALLARD RD)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.24 M

FILE NAME: E1339A98/SHEETS /PLAN /PDOT .DGN TECH/ENGR: DPP/SDC PLOT DATE: 04/ /99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00
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.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

WisDOT: MSHT40



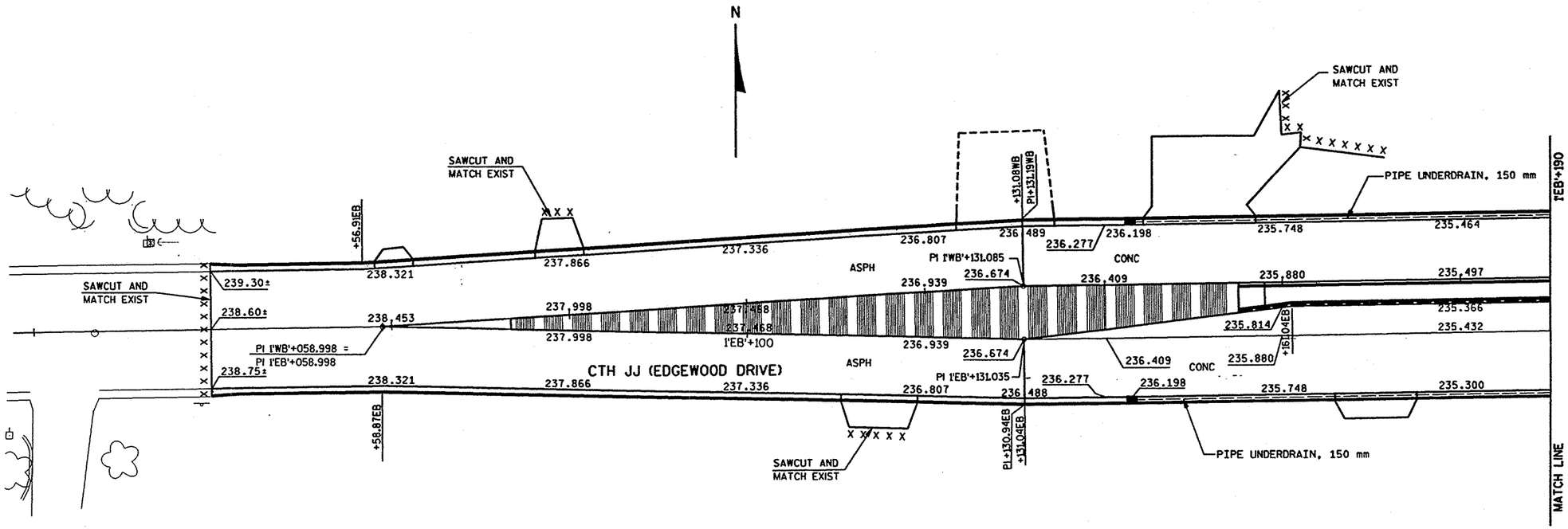


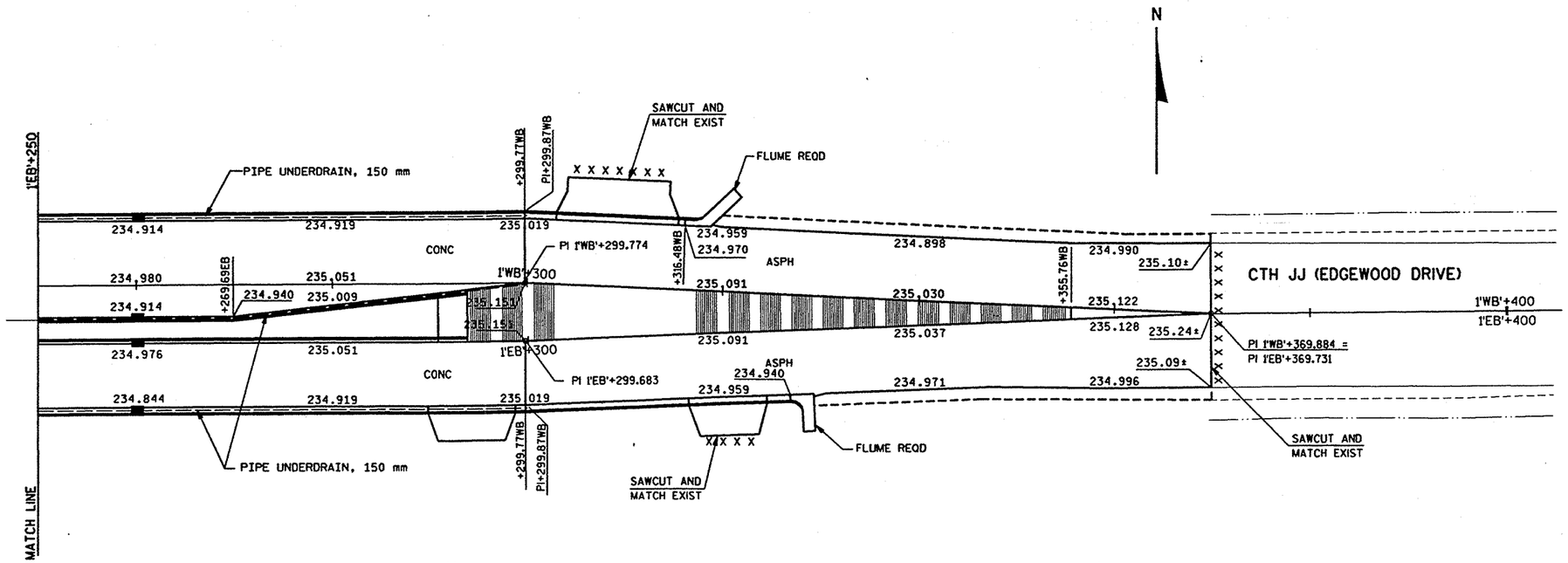
PAVING DETAILS FOR ASHBURY DRIVE	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 2.25 M

WisDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PD04A .DGN TECH/ENGR: DPP/SDC PLOT DATE: 10/26/98
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00
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,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,

FILE NAME: E1339A98/SHEETS /PLAN /PD06A .DGN TECH/ENGR: DPP/SDC PLOT DATE: 04/ /99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00
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.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:





PAVING DETAILS FOR CTH JJ (EDGEWOOD DRIVE)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.26 M

N

1'NB'+210

1'SB'+100

1'SB'+200

CTH E (N. BALLARD RD)

1'NB'+100

1'NB'+200

3.66 m X 2.13 m CULV.

1375 mm CULV.

SS

ASPH

VENT

GRAVEL

MATCH LINE

EVERGREEN DRIVE

DRIVE

FE

1'NB'+390

1'SB'+300

1'NB'+300

450 mm CULV.

4+020

SILVER LEAF COURT

LEGEND

SILT FENCE

SOD

FILTER BAG

LOT 12

MAPLE WOOD ESTATES

LOT 1

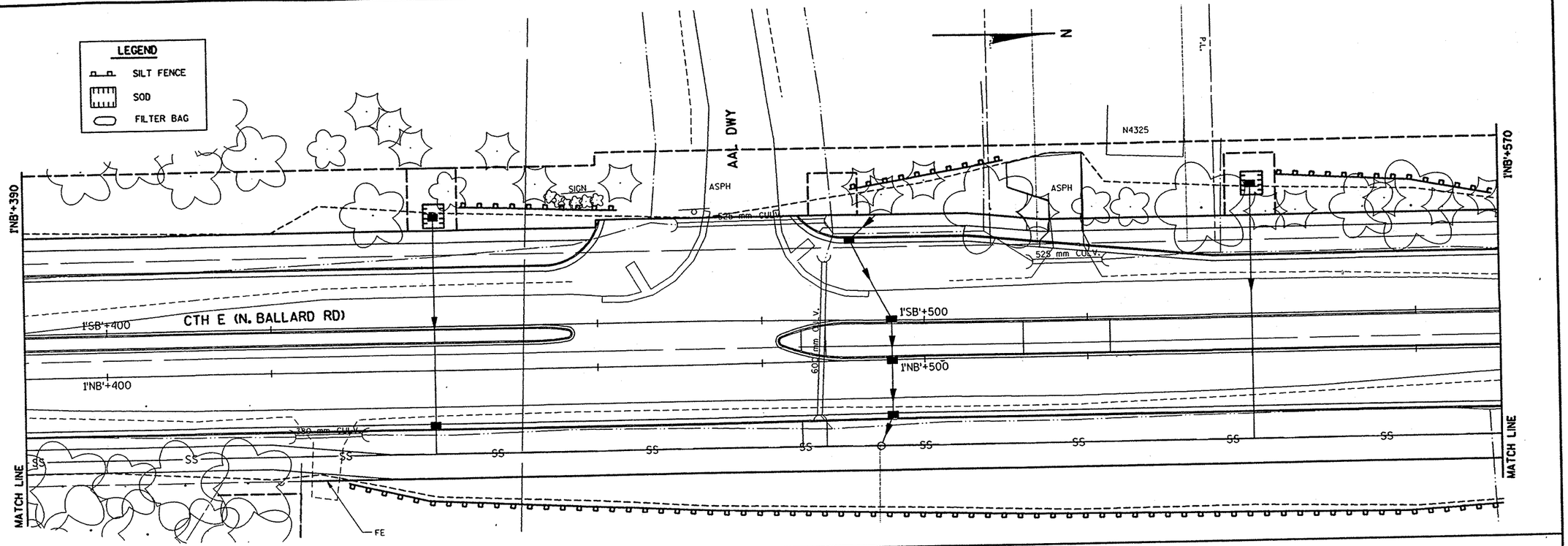
LOT 2

LOT 3

P.L.

EROSION CONTROL	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 2.27 M

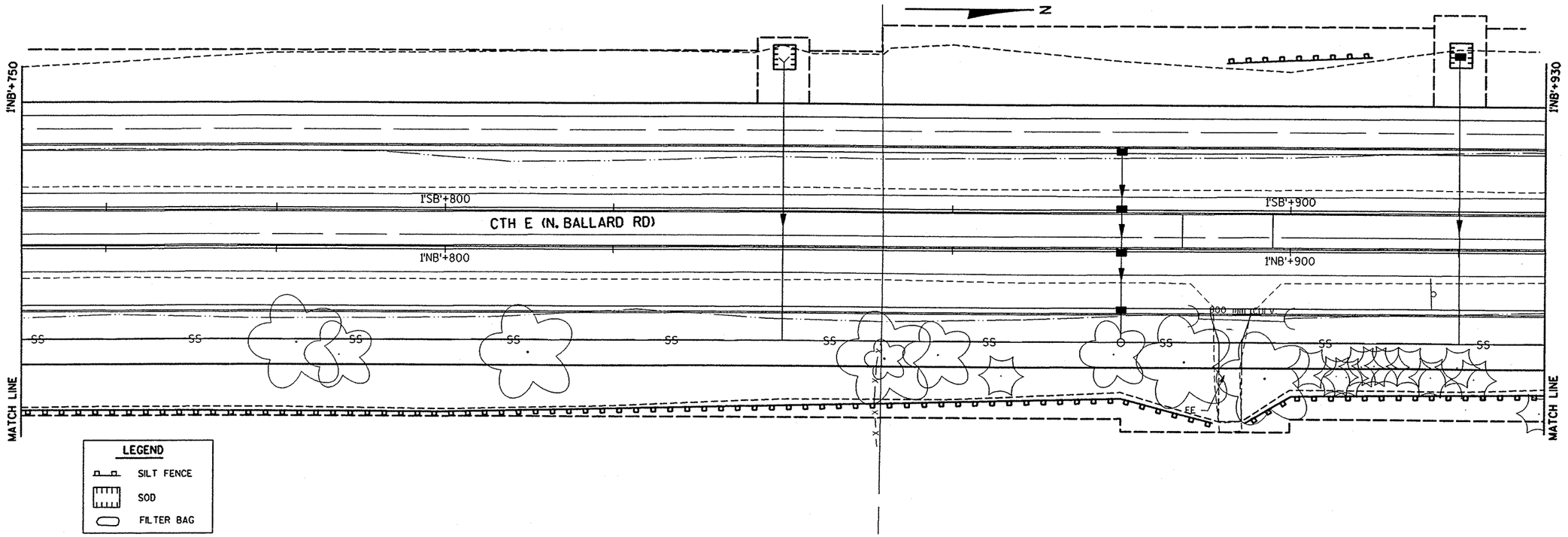
WISDOT: MSHT40

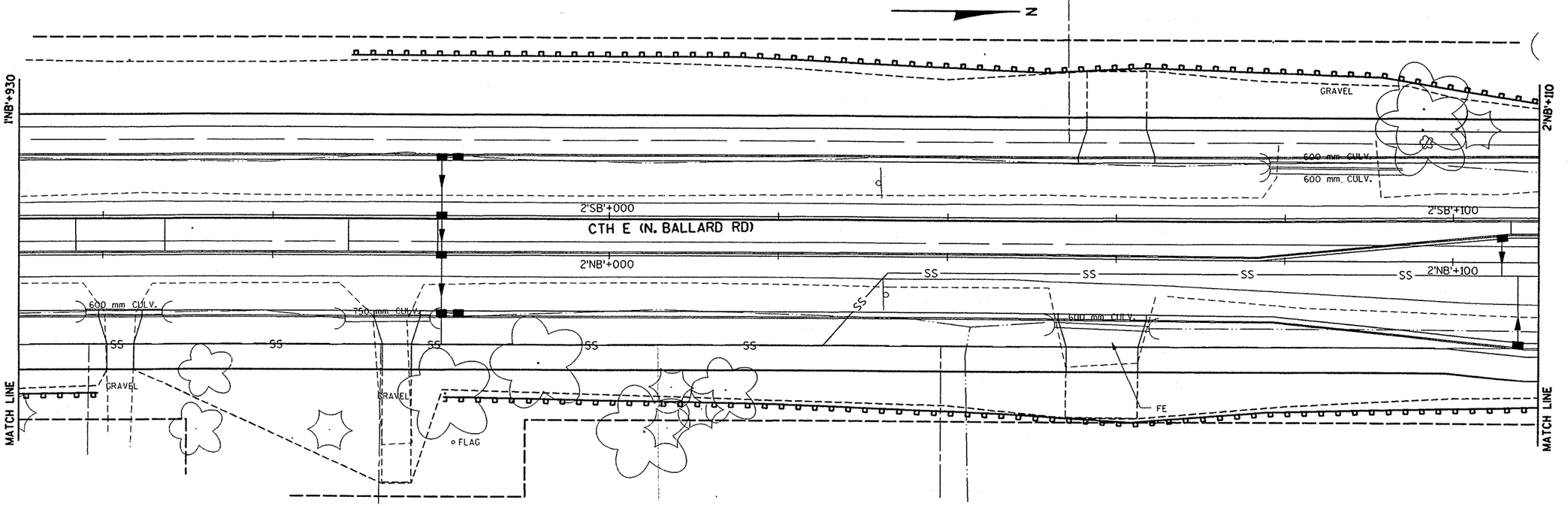


EROSION CONTROL | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.28 M

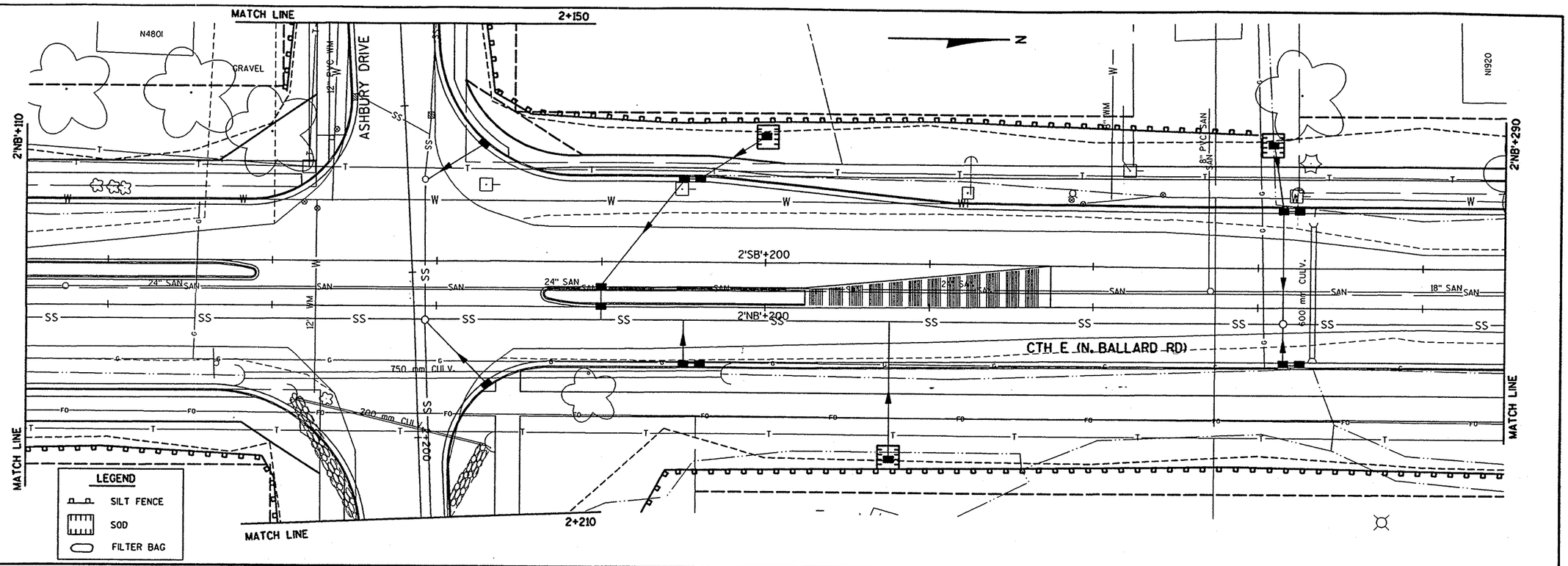
WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /ECO2 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 10/14/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00
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,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:





EROSION CONTROL	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 2.29 M



EROSION CONTROL	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 2.30 M

FILE NAME: E1339A98/SHEETS /PLAN /ECO5 .DGN PLOT DATE: 06/06/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 TECH/ENGR: DPP/SDC REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
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, 59,60,61,62,

EDGEWOOD SUBDIVISION

LOT 1

LEGEND

- SILT FENCE
- SOD
- FILTER BAG

N

2+470

2+630

ASPH

GAS MARKER

375 mm CULV.

450 mm CULV.

SS

2'SB'+500

2'SB'+600

CTH E (N. BALLARD RD)

600 mm CULV.

2'NB'+500

2'NB'+600

GAS MARKER

GAS MARKER

450 mm CULV.

GRAVEL

600 mm CULV.

MATCH LINE

MATCH LINE

ASPHALT TENNIS COURT

P.L.

NORTH HIGH SCHOOL

LOT 1

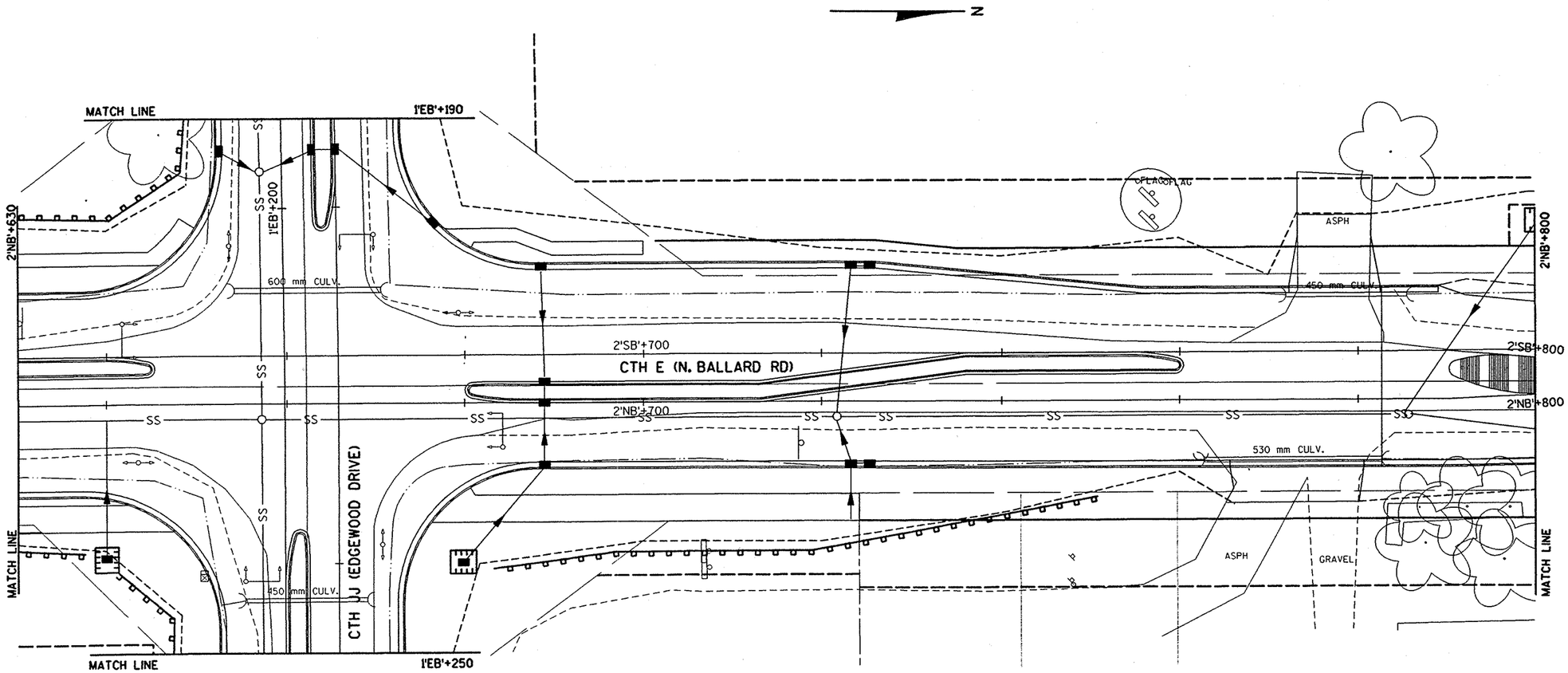
C.S.M. #2074

EROSION CONTROL	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.31	M

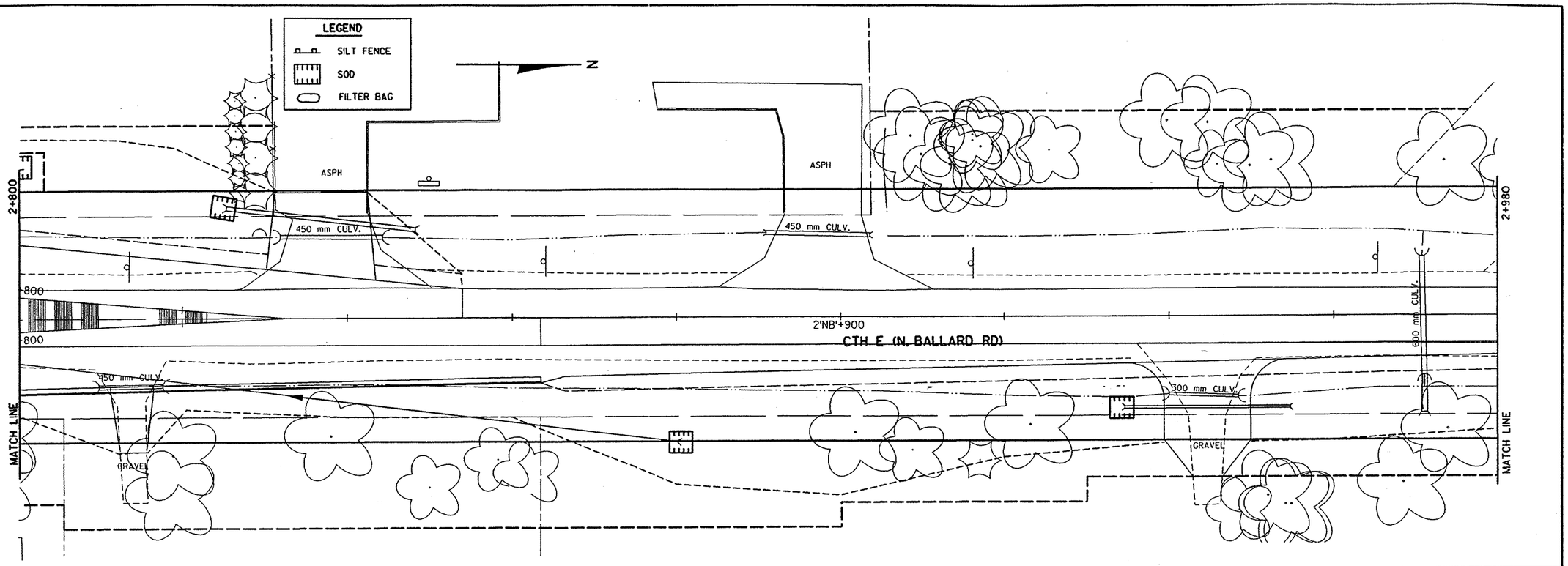
PLOT DATE: 06/06/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
FILE NAME: E1339A98/SHEETS /PLAN /ECO6 .DGN TECH/ENGR: DPP/SDC PLOTTED BY: DPP
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57, 59,60,61,62,

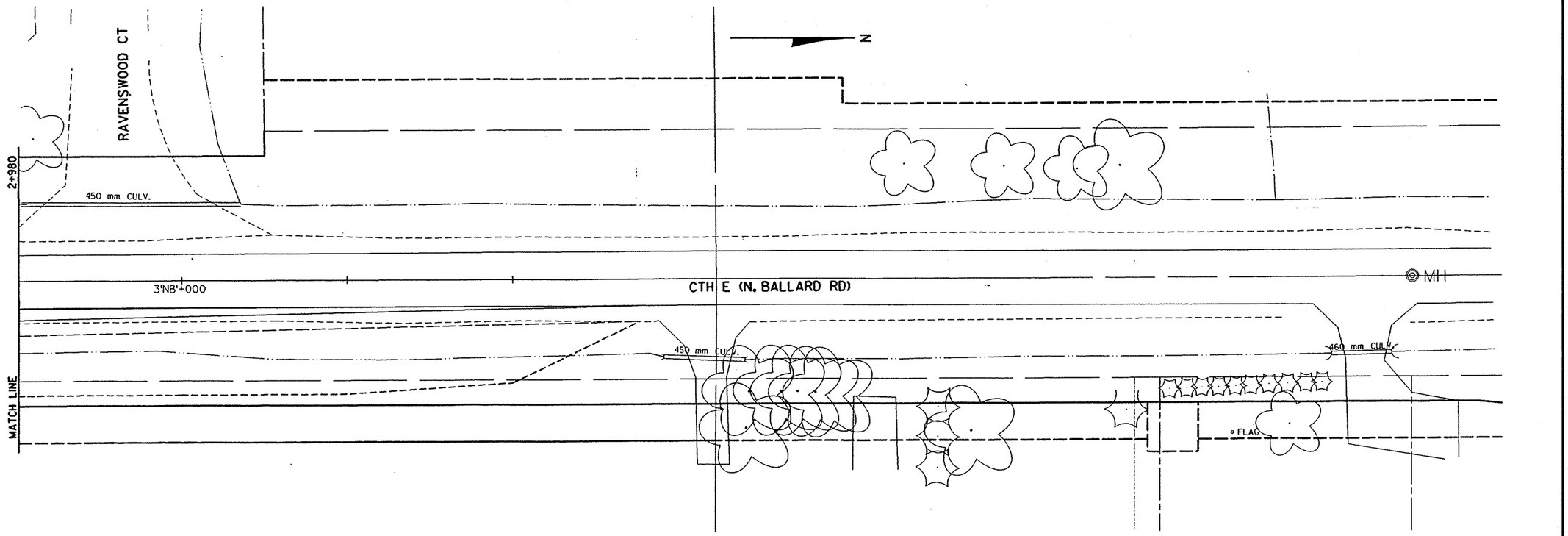
LEGEND

- SILT FENCE
- SOD
- FILTER BAG



EROSION CONTROL	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.32	M





EROSION CONTROL	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.33	M

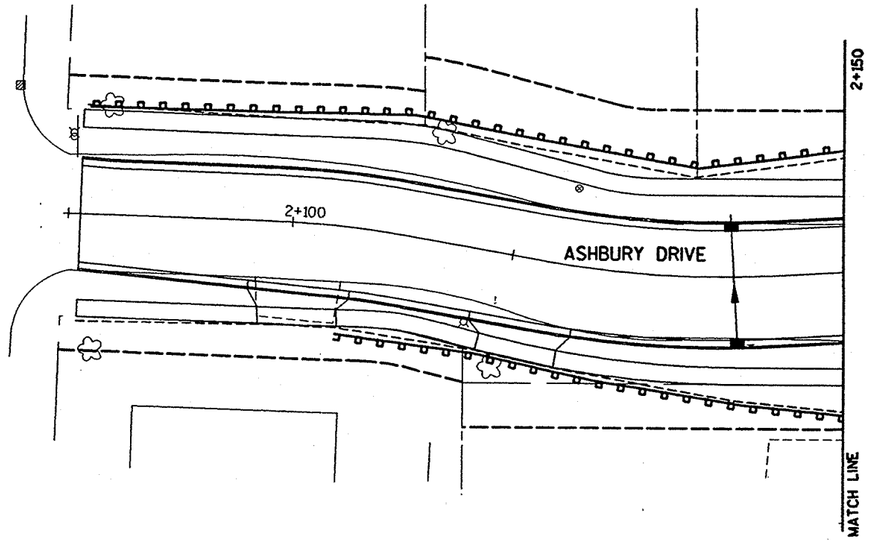
WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /ECO7 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00
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.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
800.800.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.

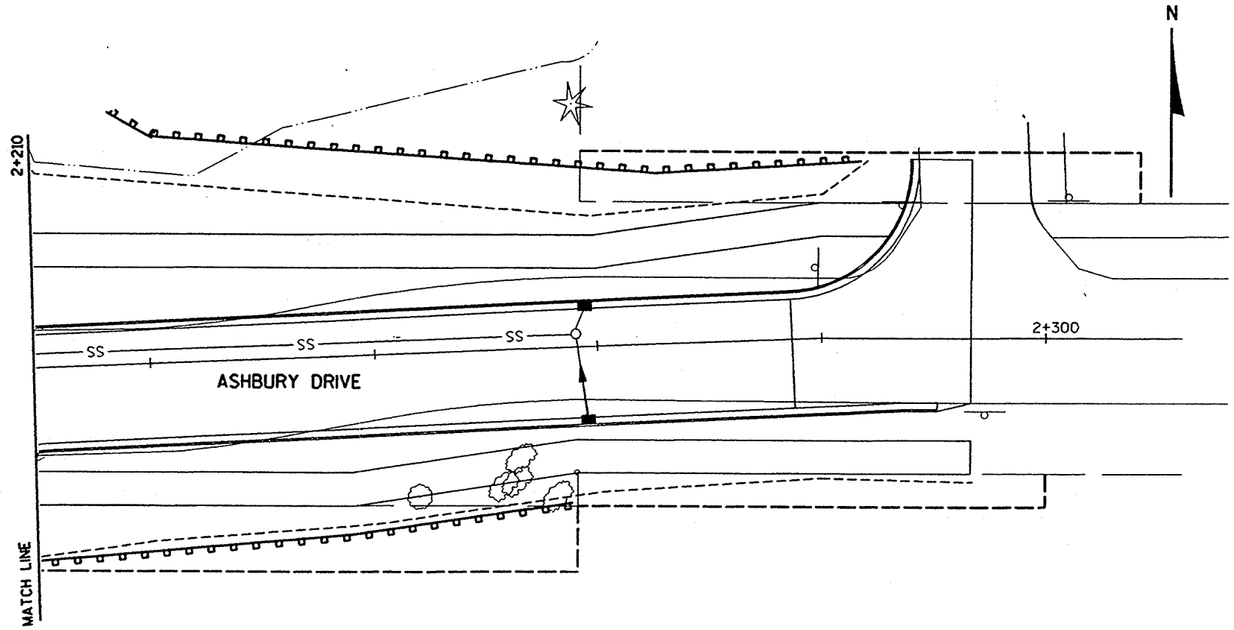
FILE NAME: E1339A98/SHEETS /PLAN /EC04A .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,

LEGEND

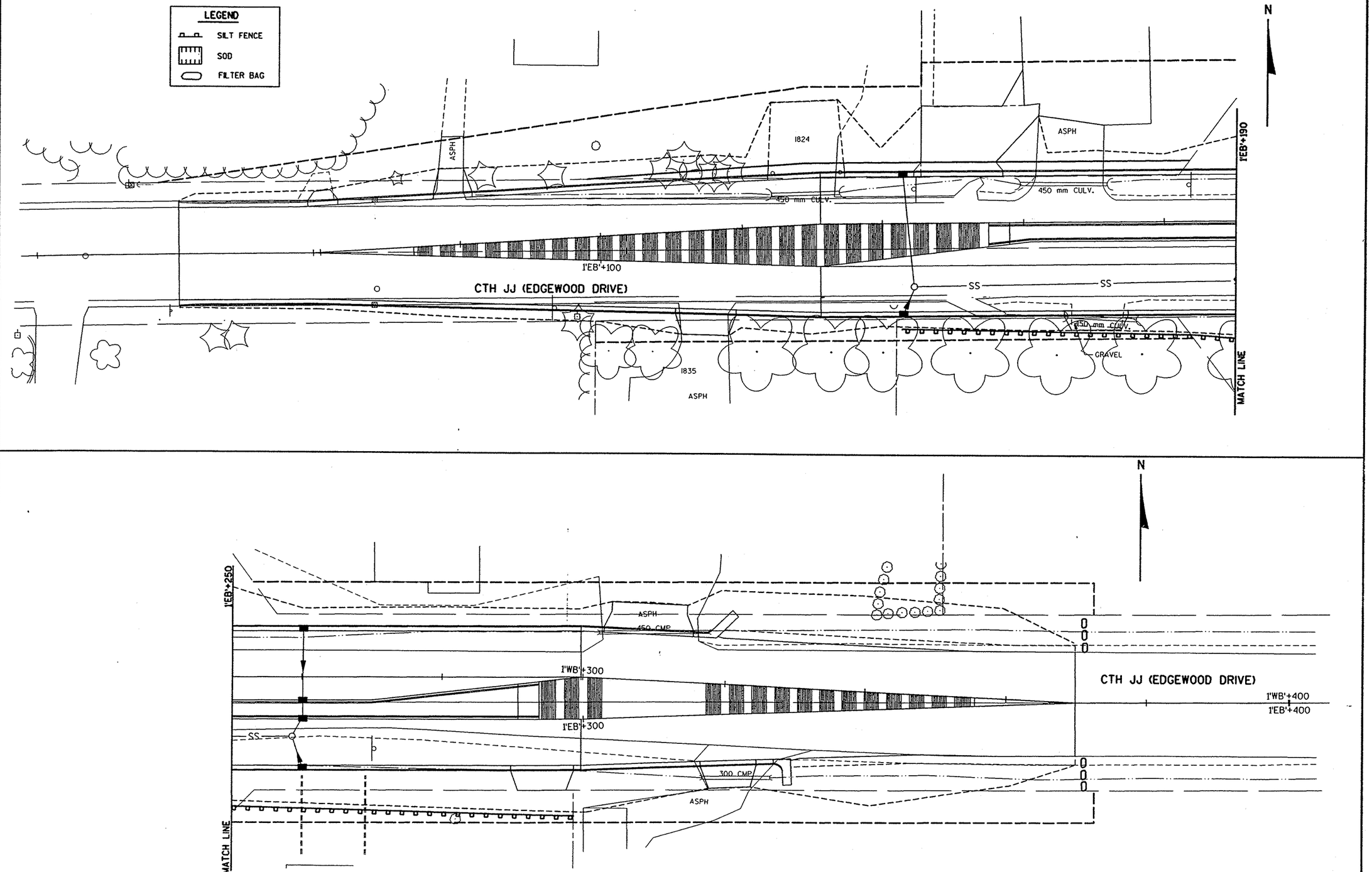
- SILT FENCE
- SOD
- FILTER BAG



N



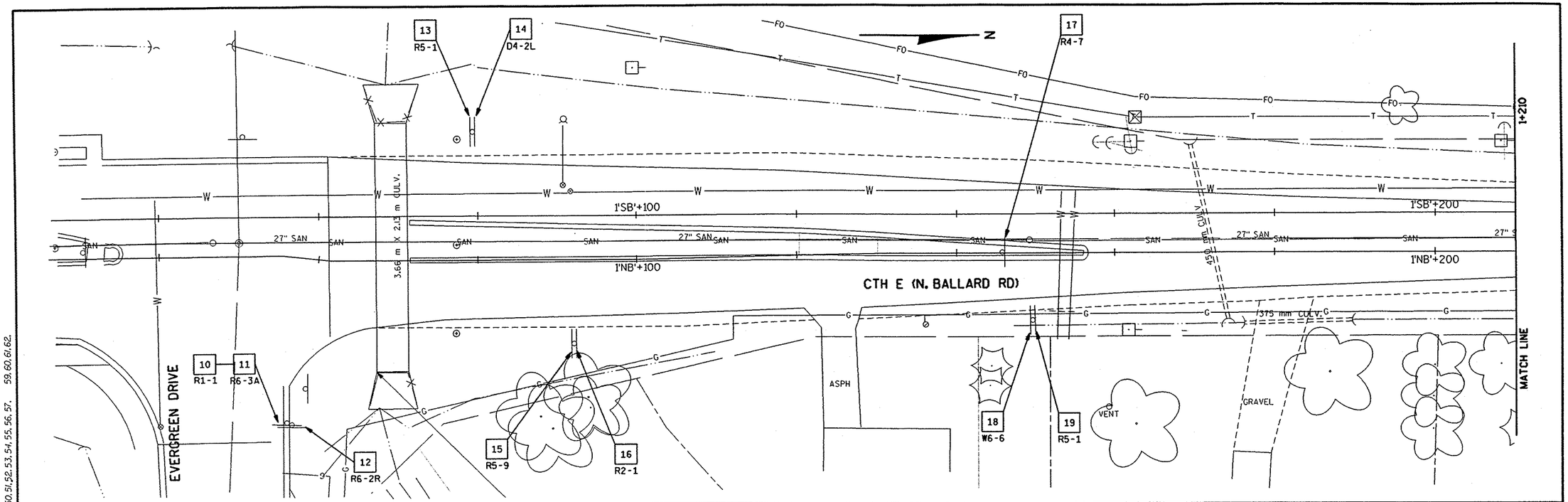
EROSION CONTROL	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 2.34 M

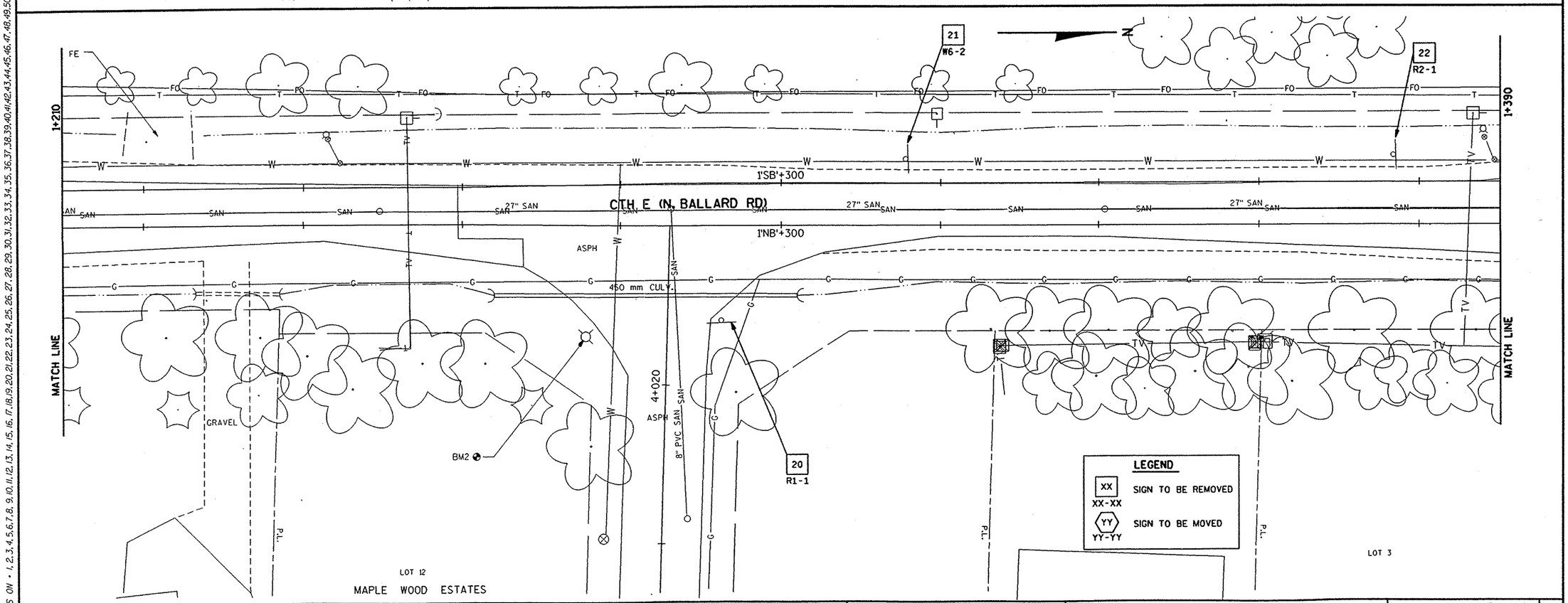


FILE NAME: E1339A98/SHEETS /PLAN /EC06A .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00
LEVELS ON - 1,2,3,4,5,6,7,8, 9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

EROSION CONTROL	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.35	M

WISDOT: MSHT40

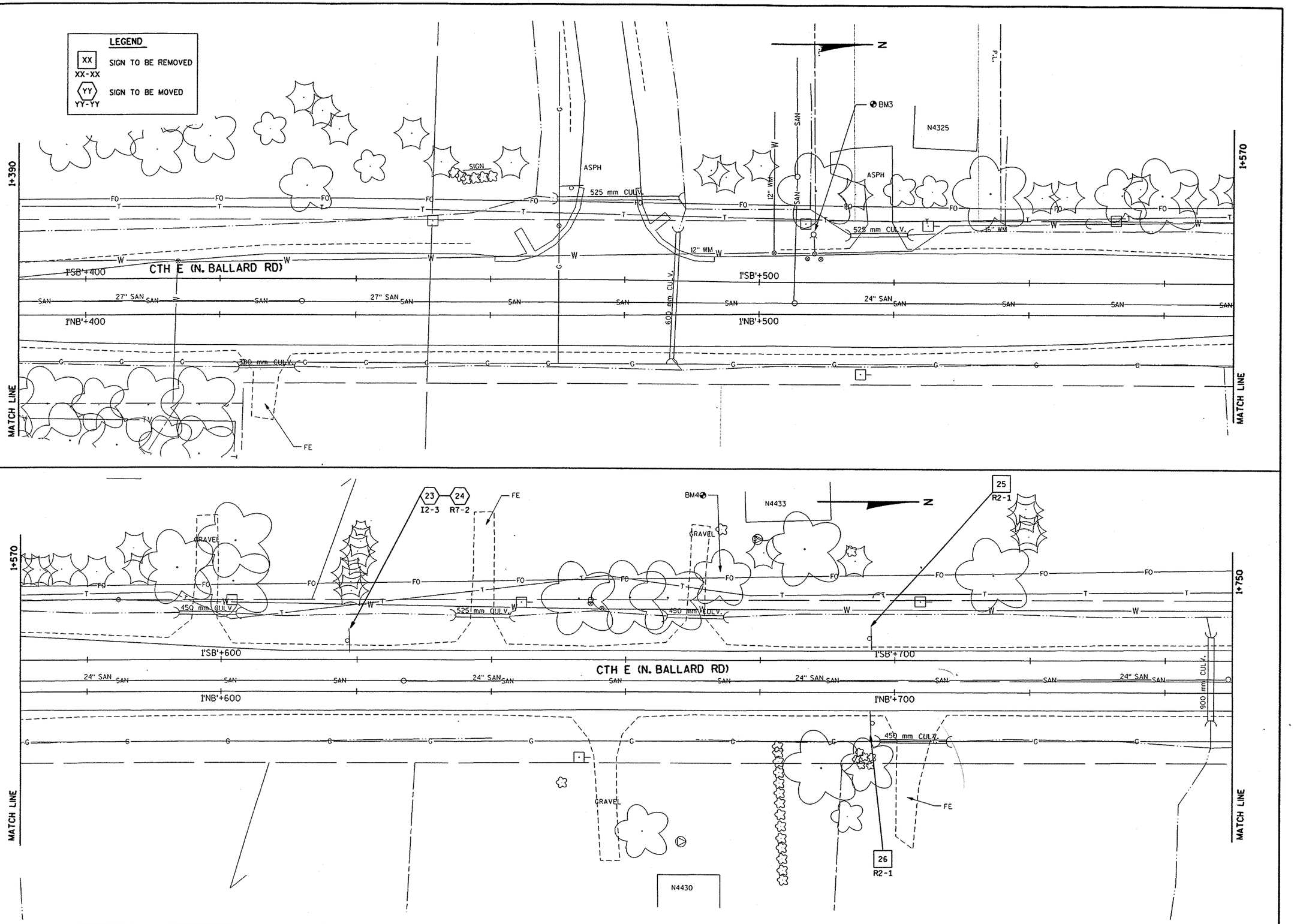




MOVING AND REMOVING SIGN PLAN | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.36 M

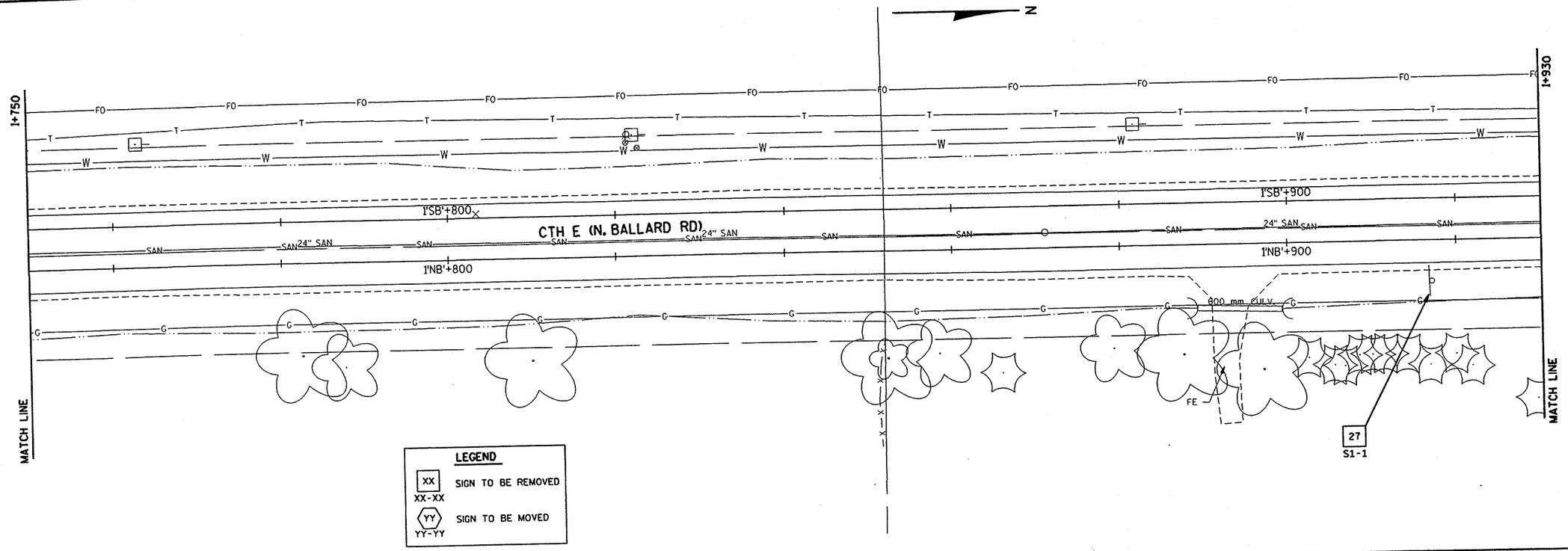
WISDOT: MSHT40

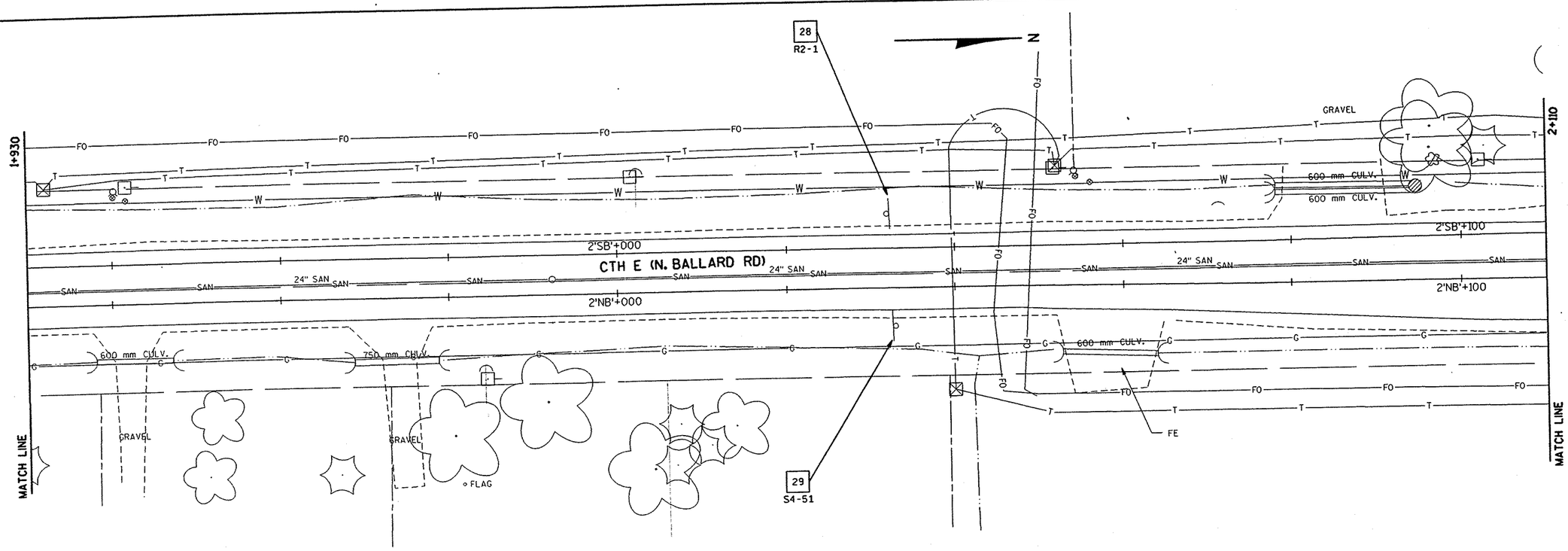
FILE NAME: E1339A98/SHEETS /PLAN /PS01 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,59,60,61,62.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



MOVING AND REMOVING SIGN PLAN | 0 5 10 | HWY: CTH E | COUNTY: OUTGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.37 | M

FILE NAME: E1339A98/SHEETS /PLAN /PSO2 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62.

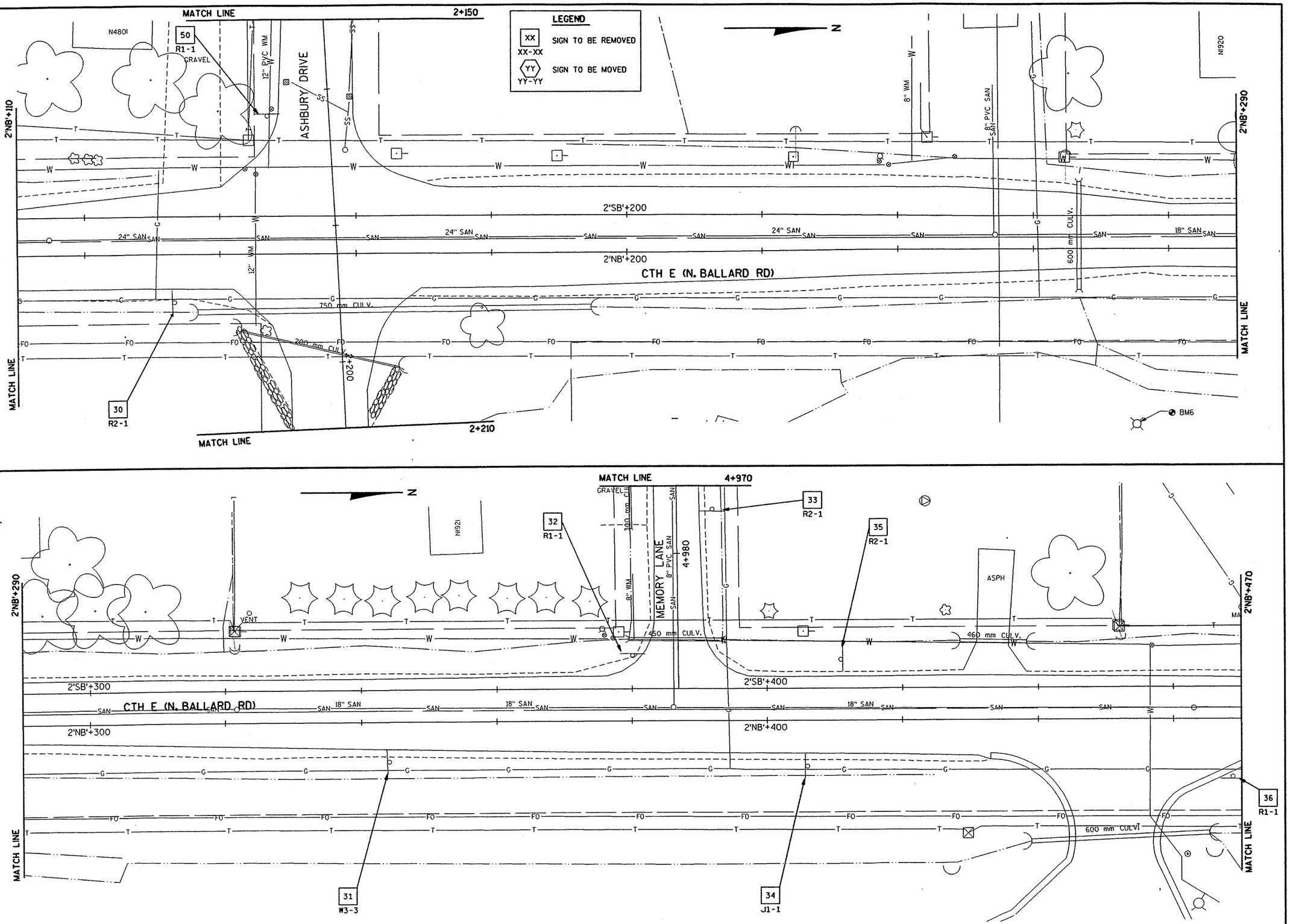




FILE NAME: E1339A98/SHEETS /PLAN /PS03 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 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.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

MOVING AND REMOVING SIGN PLAN | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.38 M

WISDOT: MSHT40

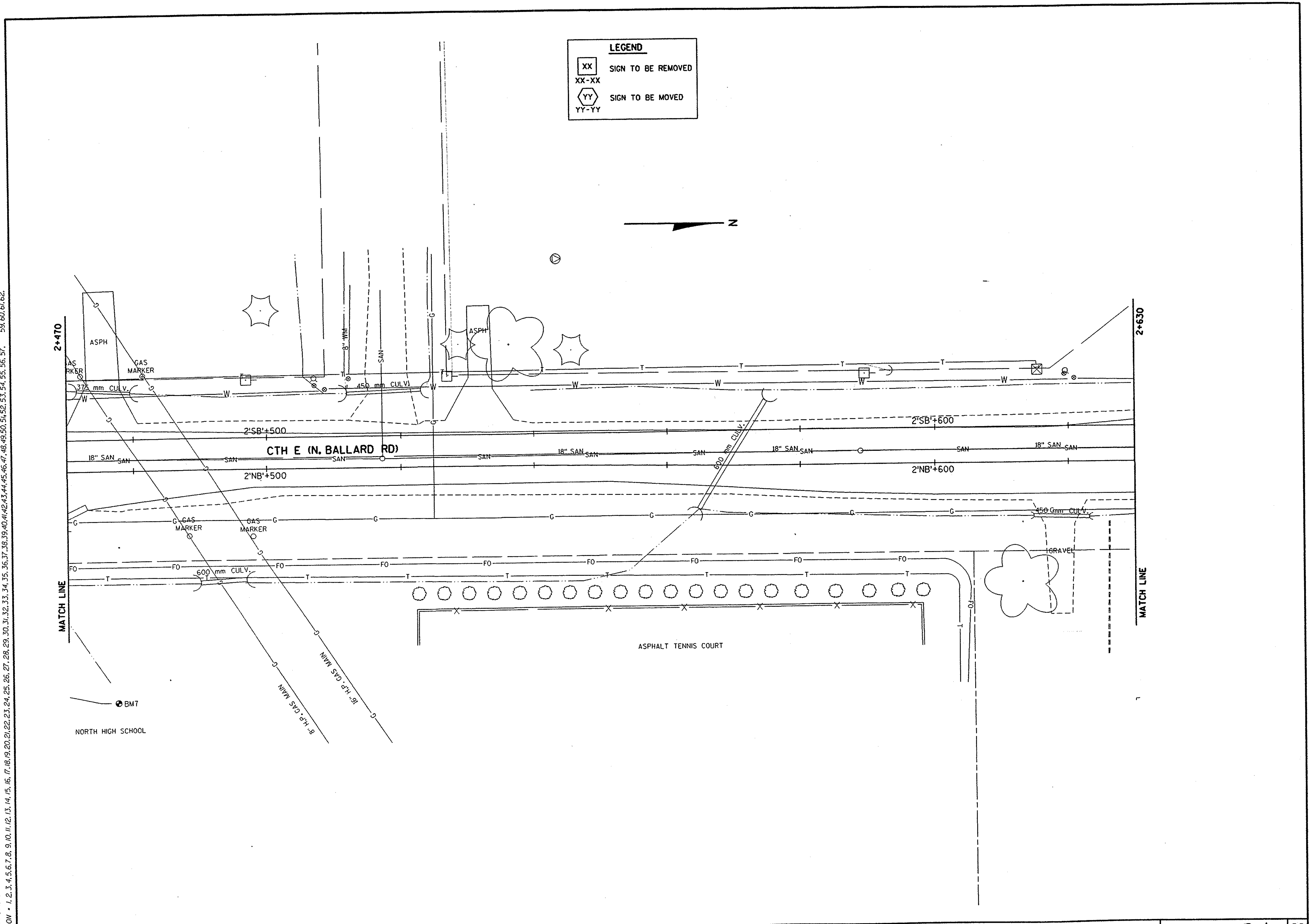


MOVING AND REMOVING SIGN PLAN | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.39 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PS04 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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, 59,60,61,62.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

FILE NAME: E1339A98/SHEETS /PLAN /PS05 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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. 59,60,61,62.



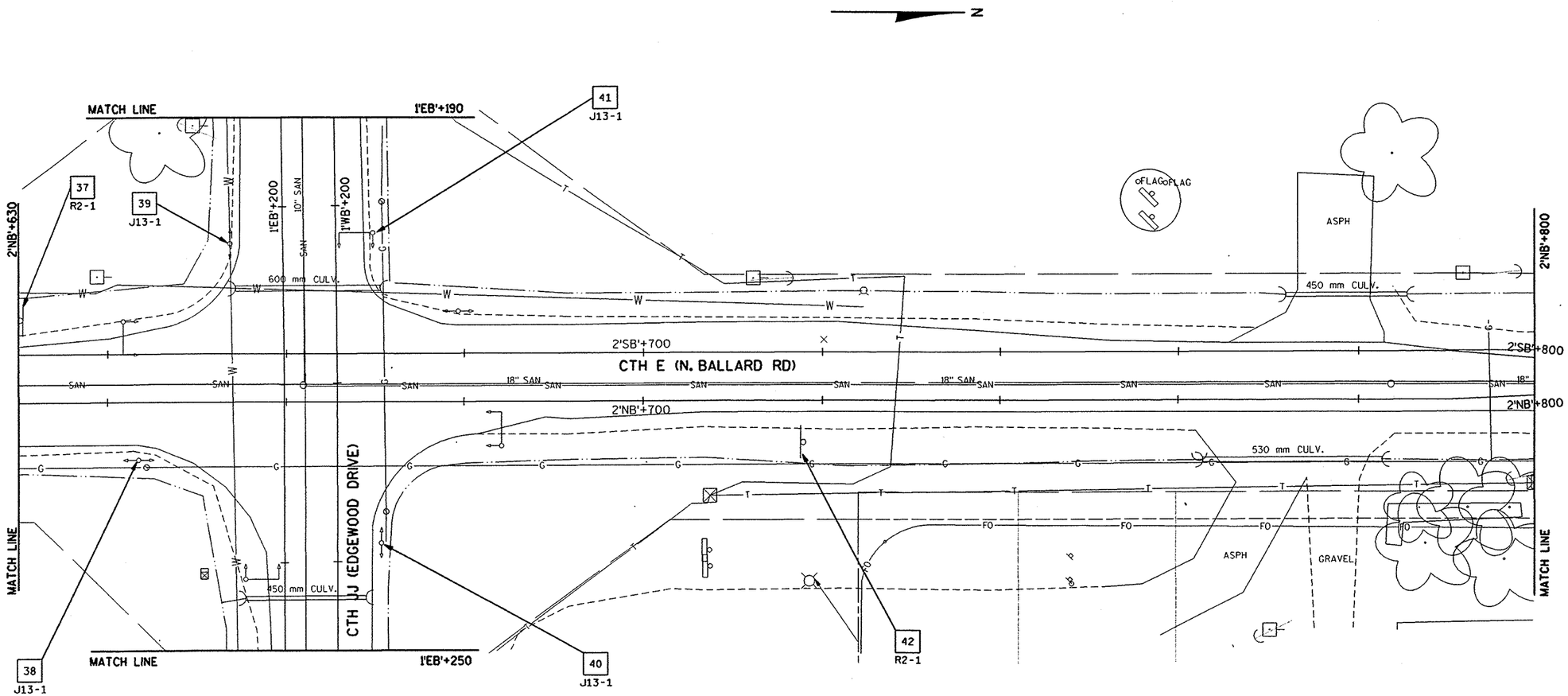
MOVING AND REMOVING SIGN PLAN | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97/95 | SHEET NO: 2.40 | M

WISDOT: MSHT40

LEGEND

XX — XX-XX — SIGN TO BE REMOVED

YY — YY-YY — SIGN TO BE MOVED



MOVING AND REMOVING SIGN PLAN	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.41	M

WISDOT: MSHT40

FILE NAME: E1339498/SHEETS /PLAN /PS06 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
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, 59,60,61,62.

LEGEND

XX — SIGN TO BE REMOVED (XX-XX)

YY — SIGN TO BE MOVED (YY-YY)

N

43 S4-51

2+800

ASPH

450 mm CULV.

800

SAN 18" SAN

CTH E (N. BALLARD RD)

2'NB'+900

MATCH LINE

FO GRAVEL

BM10

ASPH

450 mm CULV.

2+980

600 mm CULV.

SAN 18" SAN

450 mm CULV.

GRAVEL

MATCH LINE

N

2+980

450 mm CULV.

8" SAN

SAN 18" SAN

3'NB'+000

CTH E (N. BALLARD RD)

MH

MATCH LINE

450 mm CULV.

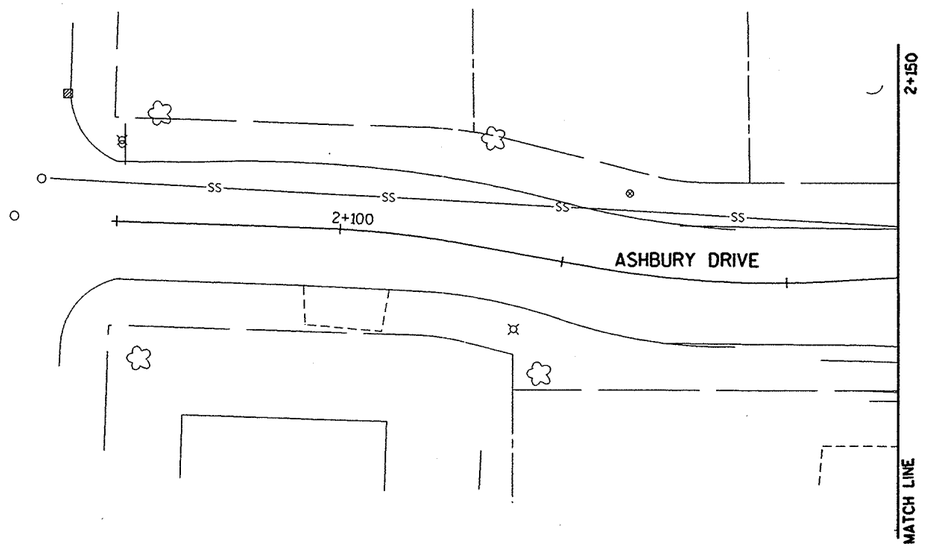
460 mm CULV.

FLAG

MOVING AND REMOVING SIGN PLAN | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-95 | SHEET NO: 2.42 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PS07 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



N

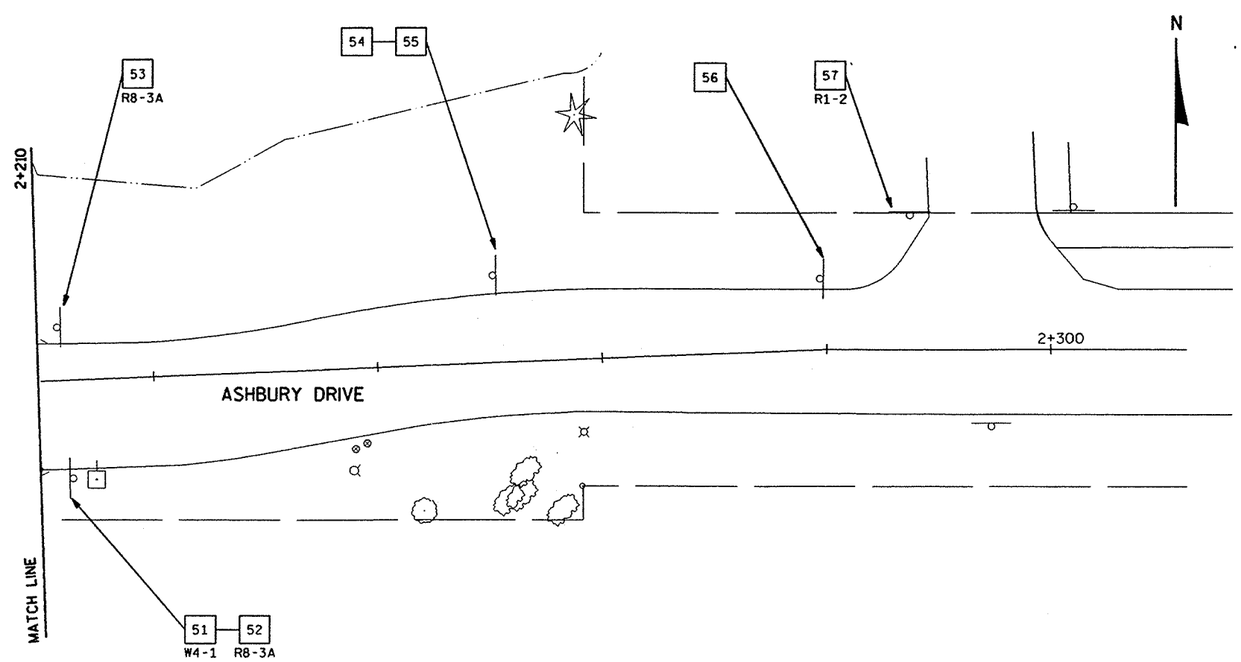
LEGEND

XX — SIGN TO BE REMOVED

XX-XX

YY — SIGN TO BE MOVED

YY-YY

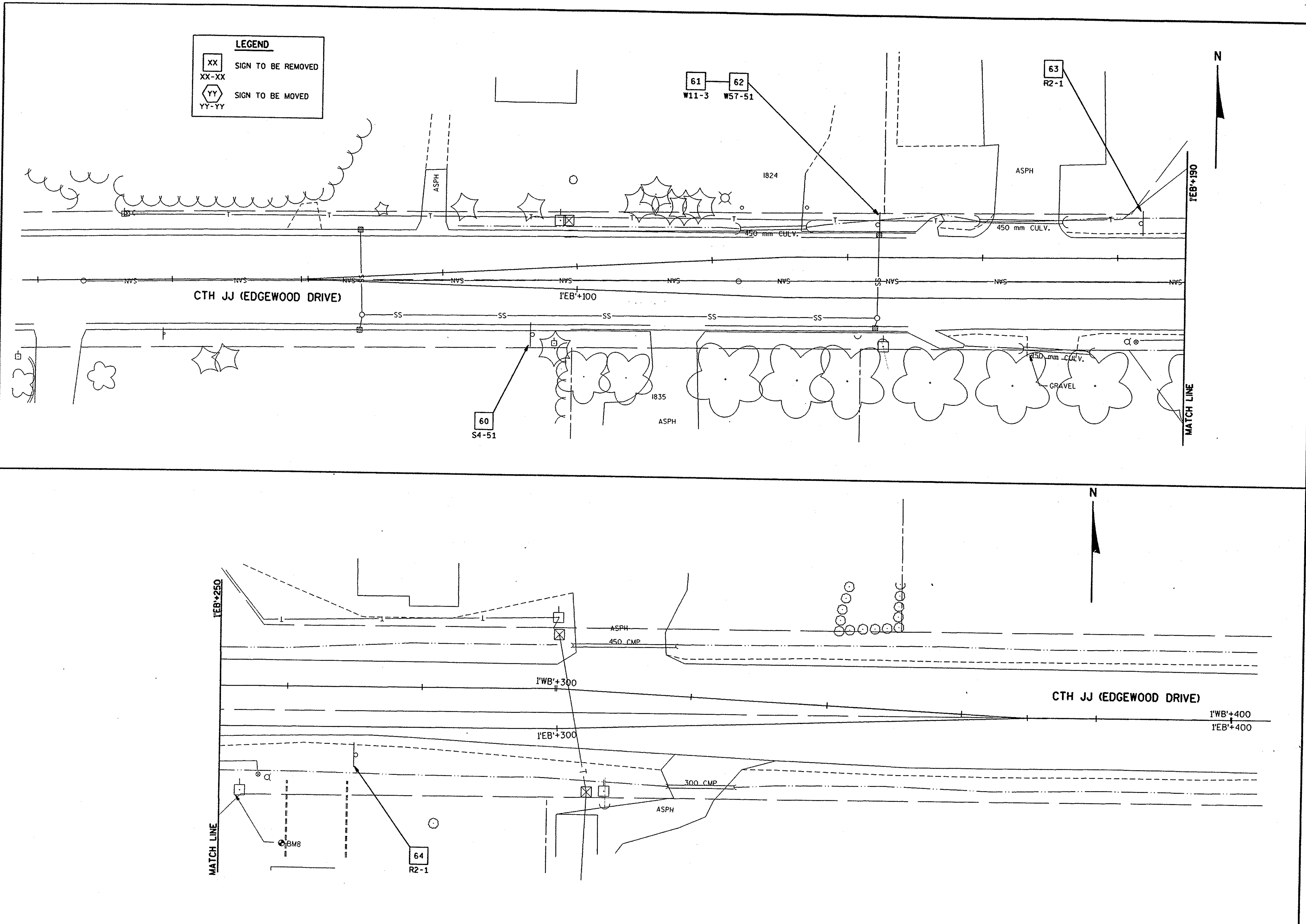


MOVING AND REMOVING SIGN PLAN	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 2.43 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PS04A .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62.

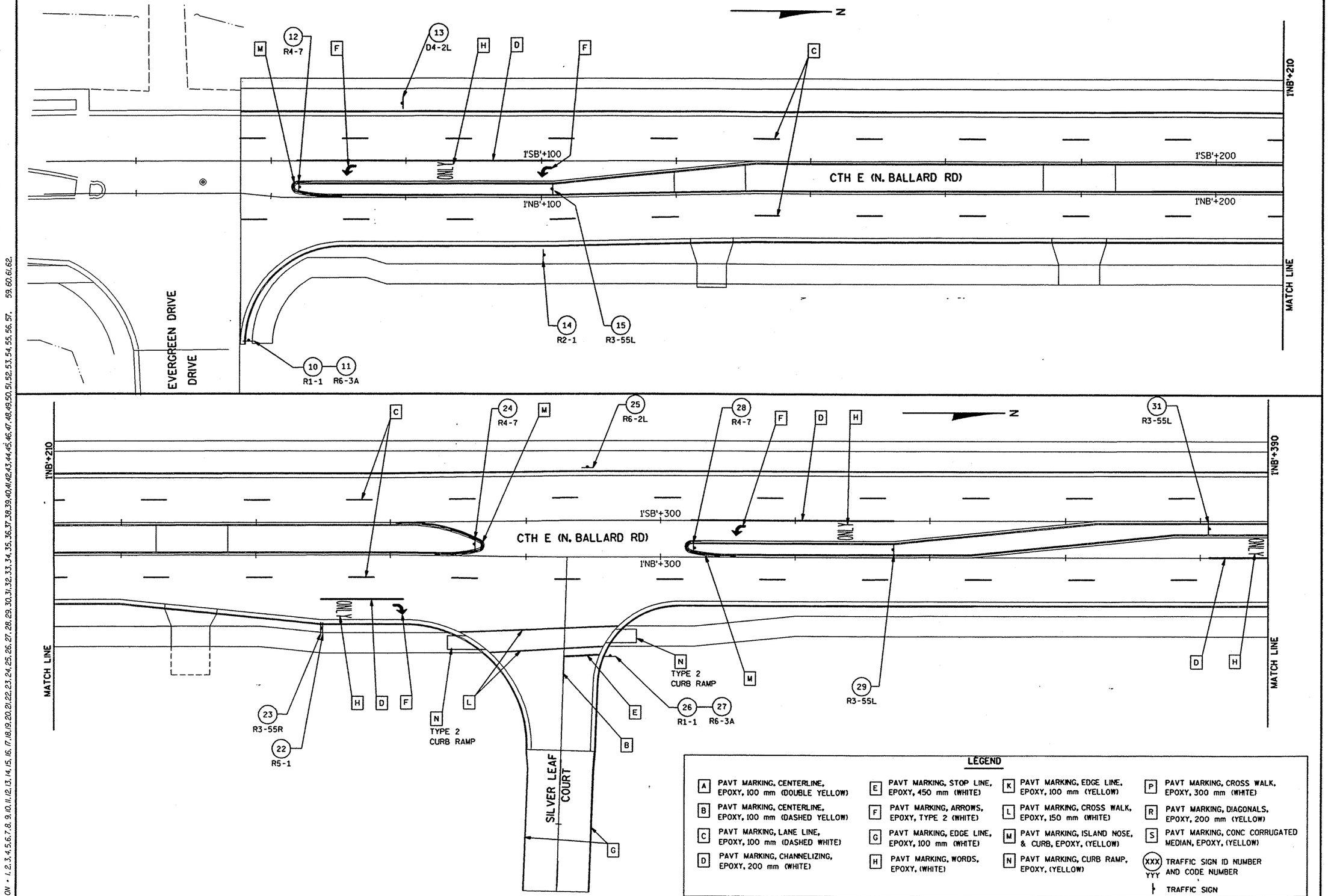
FILE NAME: E1339A98/SHEETS /PLAN /PS06A .DGN TECH/ENGR: DPP/SDC PLOT DATE: 06/06/99 PLOT SCALE: 1:
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,



MOVING AND REMOVING SIGN PLAN	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.44	M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PM01 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/ /99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
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, 59,60,61,62.

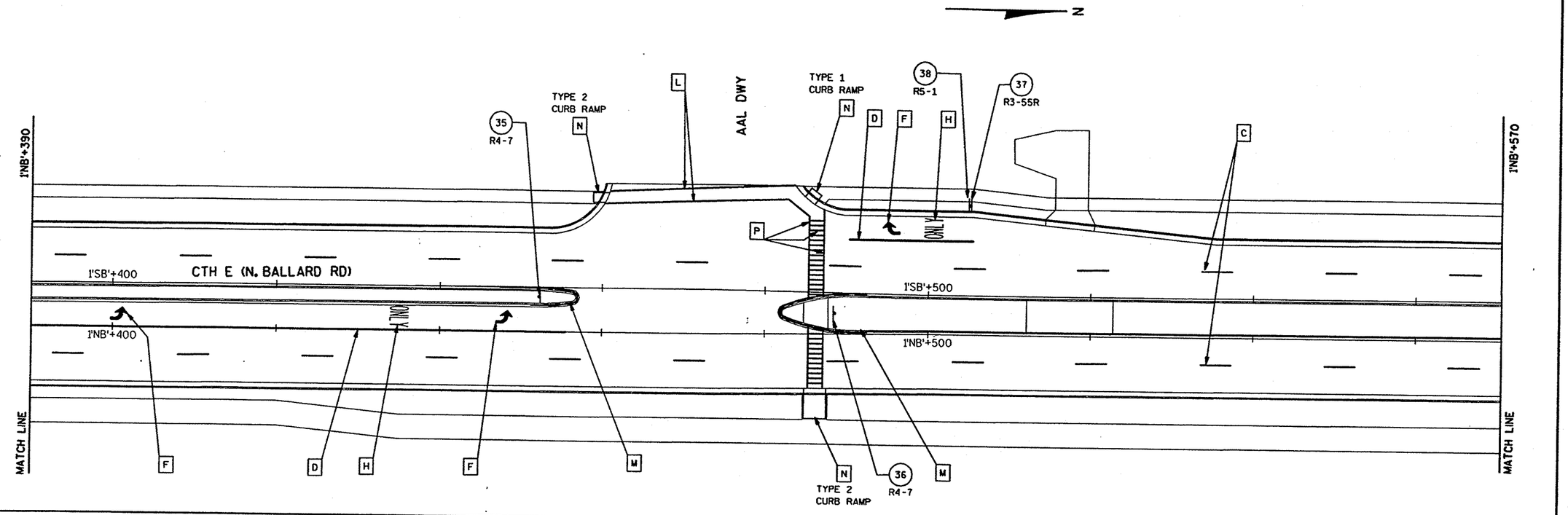


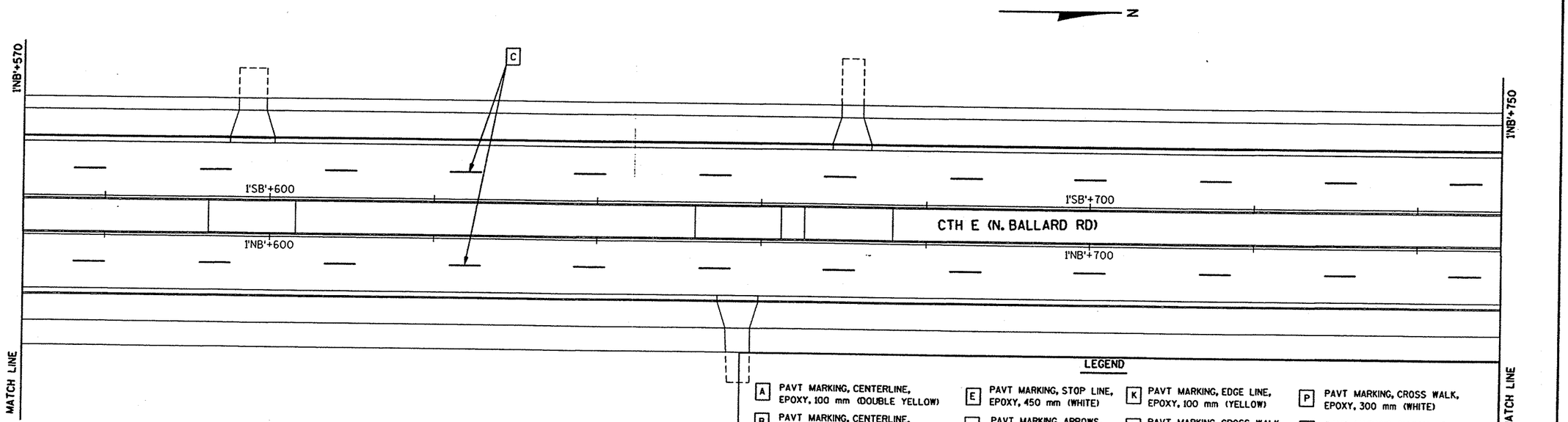
LEGEND

- A — PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DOUBLE YELLOW)
- B — PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DASHED YELLOW)
- C — PAVT MARKING, LANE LINE, EPOXY, 100 mm (DASHED WHITE)
- D — PAVT MARKING, CHANNELIZING, EPOXY, 200 mm (WHITE)
- E — PAVT MARKING, STOP LINE, EPOXY, 450 mm (WHITE)
- F — PAVT MARKING, ARROWS, EPOXY, TYPE 2 (WHITE)
- G — PAVT MARKING, EDGE LINE, EPOXY, 100 mm (WHITE)
- H — PAVT MARKING, WORDS, EPOXY, (WHITE)
- K — PAVT MARKING, EDGE LINE, EPOXY, 100 mm (YELLOW)
- L — PAVT MARKING, CROSS WALK, EPOXY, 150 mm (WHITE)
- M — PAVT MARKING, ISLAND NOSE, & CURB, EPOXY, (YELLOW)
- N — PAVT MARKING, CURB RAMP, EPOXY, (YELLOW)
- P — PAVT MARKING, CROSS WALK, EPOXY, 300 mm (WHITE)
- R — PAVT MARKING, DIAGONALS, EPOXY, 200 mm (YELLOW)
- S — PAVT MARKING, CONC CORRUGATED MEDIAN, EPOXY, (YELLOW)
- (XXX) YYY — TRAFFIC SIGN ID NUMBER AND CODE NUMBER
- TRAFFIC SIGN

PAVEMENT MARKING & PERMANENT SIGNING PLAN	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-0097	SHEET NO: 2.45	M

WISDOT: MSHT40





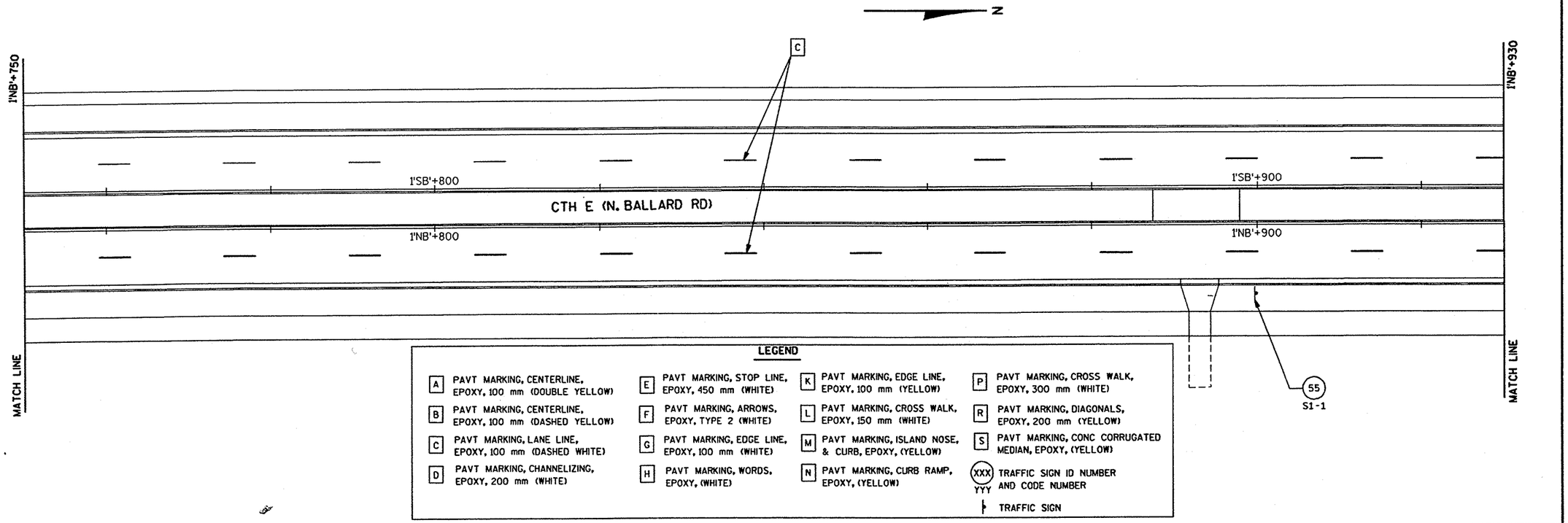
LEGEND

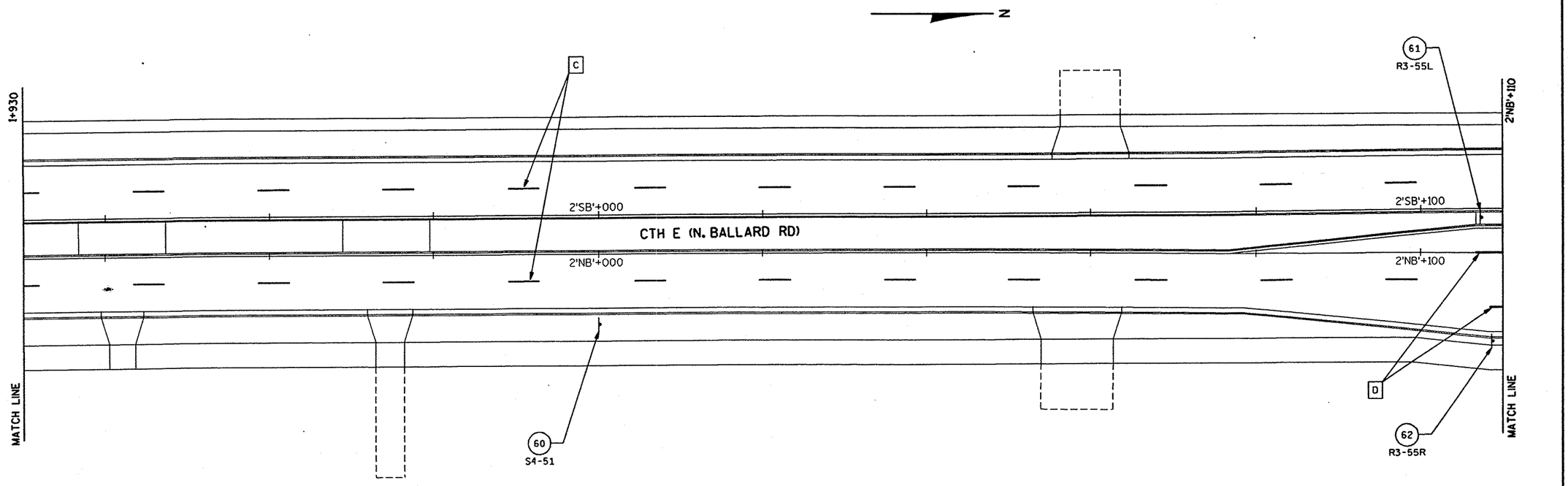
- A PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DOUBLE YELLOW)
- B PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DASHED YELLOW)
- C PAVT MARKING, LANE LINE, EPOXY, 100 mm (DASHED WHITE)
- D PAVT MARKING, CHANNELIZING, EPOXY, 200 mm (WHITE)
- E PAVT MARKING, STOP LINE, EPOXY, 450 mm (WHITE)
- F PAVT MARKING, ARROWS, EPOXY, TYPE 2 (WHITE)
- G PAVT MARKING, EDGE LINE, EPOXY, 100 mm (WHITE)
- H PAVT MARKING, WORDS, EPOXY, (WHITE)
- K PAVT MARKING, EDGE LINE, EPOXY, 100 mm (YELLOW)
- L PAVT MARKING, CROSS WALK, EPOXY, 150 mm (WHITE)
- M PAVT MARKING, ISLAND NOSE, & CURB, EPOXY, (YELLOW)
- N PAVT MARKING, CURB RAMP, EPOXY, (YELLOW)
- P PAVT MARKING, CROSS WALK, EPOXY, 300 mm (WHITE)
- R PAVT MARKING, DIAGONALS, EPOXY, 200 mm (YELLOW)
- S PAVT MARKING, CONC CORRUGATED MEDIAN, EPOXY, (YELLOW)
- (XXX / YYY) TRAFFIC SIGN ID NUMBER AND CODE NUMBER
- TRAFFIC SIGN

PAVEMENT MARKING & PERMANENT SIGNING PLAN | 0 5 10 | HWY: CTH E | COUNTY: OUTGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.46 M

WISDOT: MSHT4

FILE NAME: E1339498/SHEETS /PLAN /PM02 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 10/14/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
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

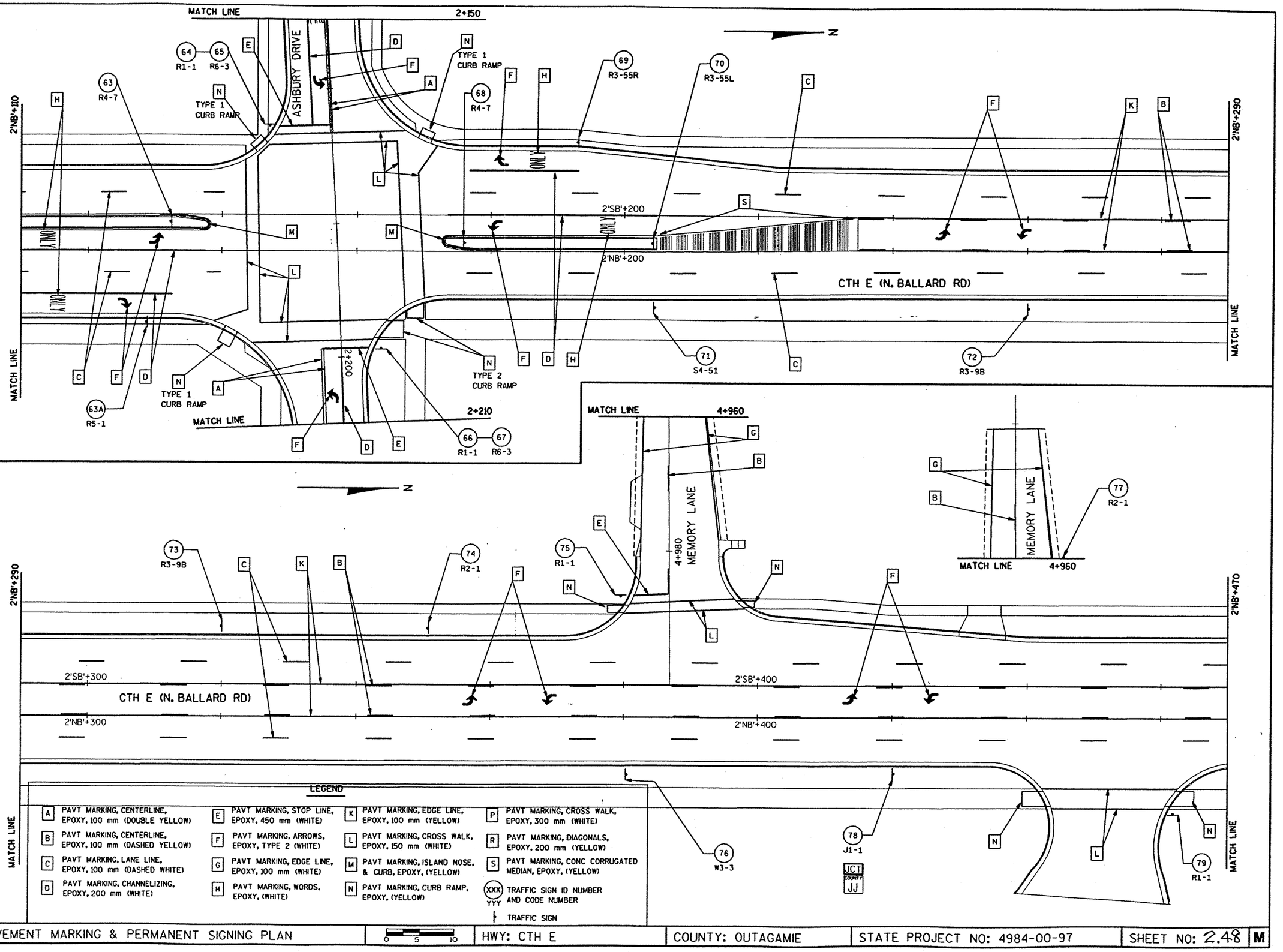




PAVEMENT MARKING & PERMANENT SIGNING PLAN | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.47 M

WISDOT: MSHT40

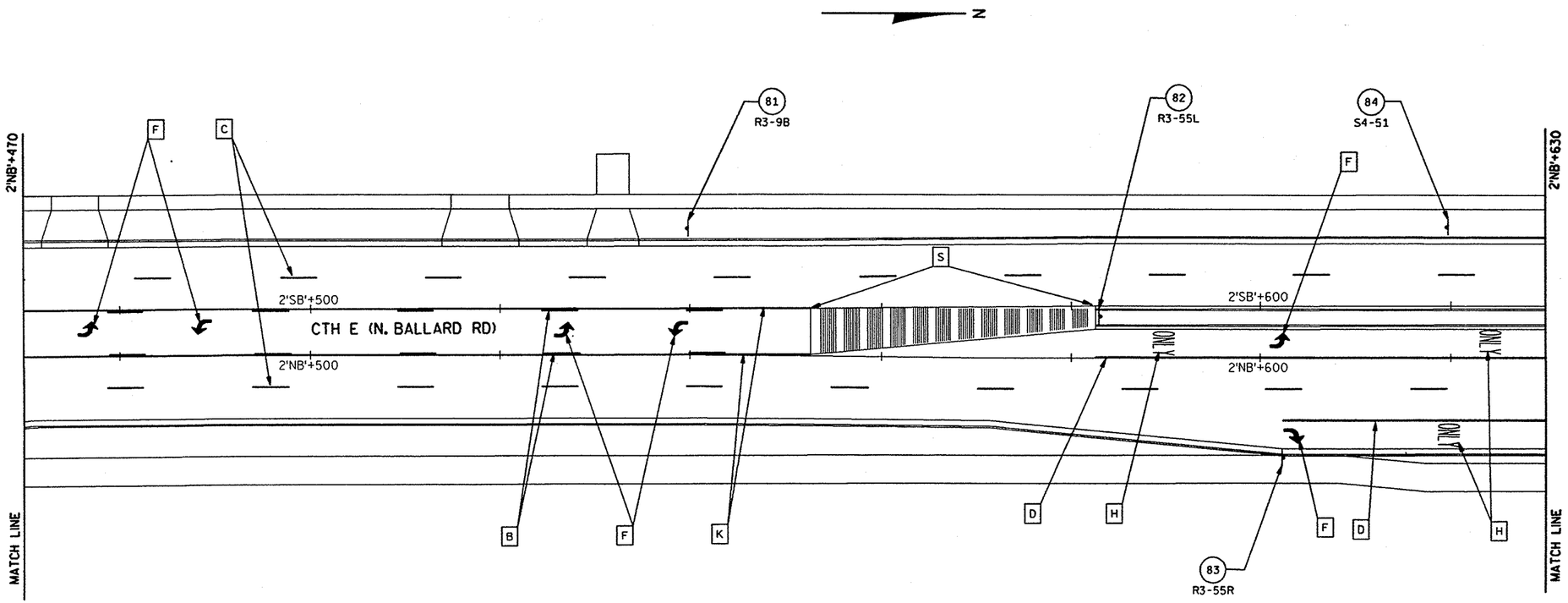
FILE NAME: E1339A98/SHEETS /PLAN /PM03 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/ /99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



PAVEMENT MARKING & PERMANENT SIGNING PLAN | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.48 | M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PM04 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 10/25/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT SCALE: 1:
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, 59,60,61,62, PLOT NAME: SEE FILE NAME

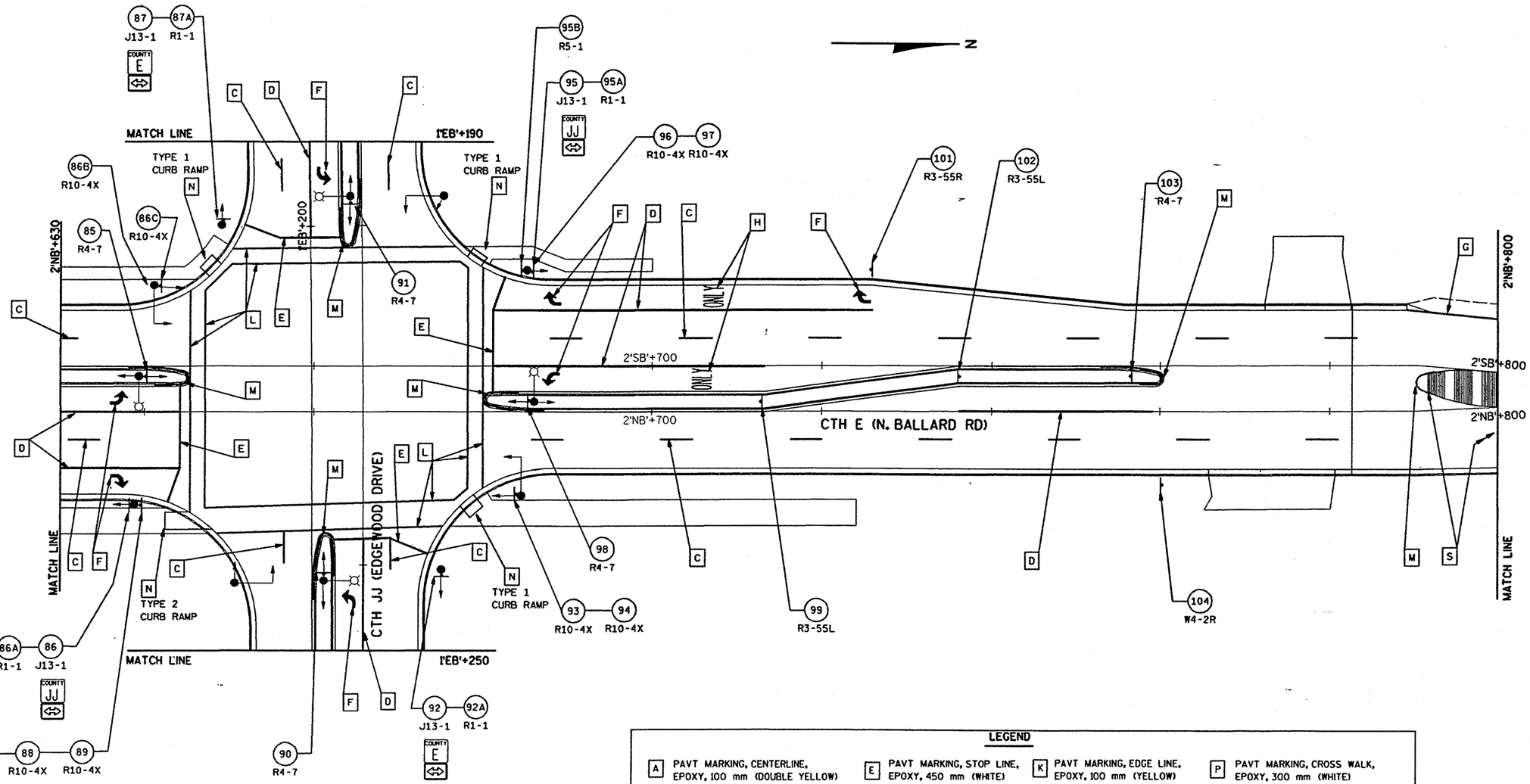


LEGEND

- A — PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DOUBLE YELLOW)
- B — PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DASHED YELLOW)
- C — PAVT MARKING, LANE LINE, EPOXY, 100 mm (DASHED WHITE)
- D — PAVT MARKING, CHANNELIZING, EPOXY, 200 mm (WHITE)
- E — PAVT MARKING, STOP LINE, EPOXY, 450 mm (WHITE)
- F — PAVT MARKING, ARROWS, EPOXY, TYPE 2 (WHITE)
- G — PAVT MARKING, EDGE LINE, EPOXY, 100 mm (WHITE)
- H — PAVT MARKING, WORDS, EPOXY, (WHITE)
- K — PAVT MARKING, EDGE LINE, EPOXY, 100 mm (YELLOW)
- L — PAVT MARKING, CROSS WALK, EPOXY, 150 mm (WHITE)
- M — PAVT MARKING, ISLAND NOSE, & CURB, EPOXY, (YELLOW)
- N — PAVT MARKING, CURB RAMP, EPOXY, (YELLOW)
- P — PAVT MARKING, CROSS WALK, EPOXY, 300 mm (WHITE)
- R — PAVT MARKING, DIAGONALS, EPOXY, 200 mm (YELLOW)
- S — PAVT MARKING, CONC CORRUGATED MEDIAN, EPOXY, (YELLOW)
- XXX / YYY — TRAFFIC SIGN ID NUMBER AND CODE NUMBER
- TRAFFIC SIGN

PAVEMENT MARKING & PERMANENT SIGNING PLAN	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.49	M

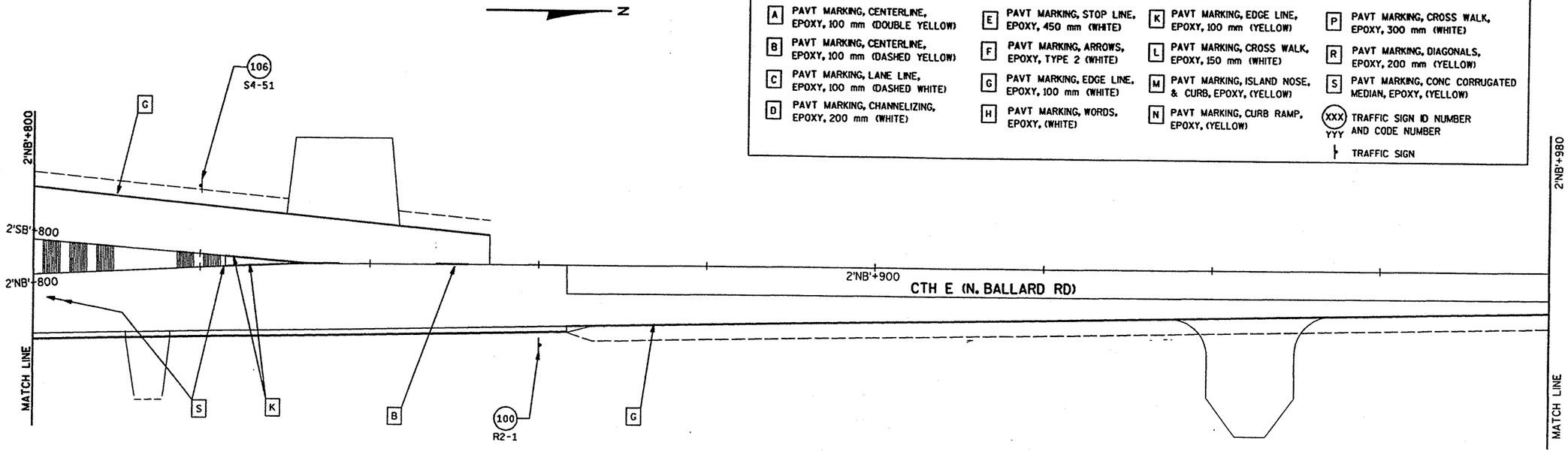
PLOT DATE: 05/ /99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
FILE NAME: E1339A98/SHEETS /PLAN /PM06 .DGN TECH/ENGR: DPP/SDC PLOTTED BY: DPP
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57, 59,60,61,62.



LEGEND

- A — PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DOUBLE YELLOW)
- B — PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DASHED YELLOW)
- C — PAVT MARKING, LANE LINE, EPOXY, 100 mm (DASHED WHITE)
- D — PAVT MARKING, CHANNELIZING, EPOXY, 200 mm (WHITE)
- E — PAVT MARKING, STOP LINE, EPOXY, 450 mm (WHITE)
- F — PAVT MARKING, ARROWS, EPOXY, TYPE 2 (WHITE)
- G — PAVT MARKING, EDGE LINE, EPOXY, 100 mm (WHITE)
- H — PAVT MARKING, WORDS, EPOXY, (WHITE)
- K — PAVT MARKING, EDGE LINE, EPOXY, 100 mm (YELLOW)
- L — PAVT MARKING, CROSS WALK, EPOXY, 150 mm (WHITE)
- M — PAVT MARKING, ISLAND NOSE, & CURB, EPOXY, (YELLOW)
- N — PAVT MARKING, CURB RAMP, EPOXY, (YELLOW)
- P — PAVT MARKING, CROSS WALK, EPOXY, 300 mm (WHITE)
- R — PAVT MARKING, DIAGONALS, EPOXY, 200 mm (YELLOW)
- S — PAVT MARKING, CONC CORRUGATED MEDIAN, EPOXY, (YELLOW)
- XXX YYY — TRAFFIC SIGN ID NUMBER AND CODE NUMBER
- TRAFFIC SIGN

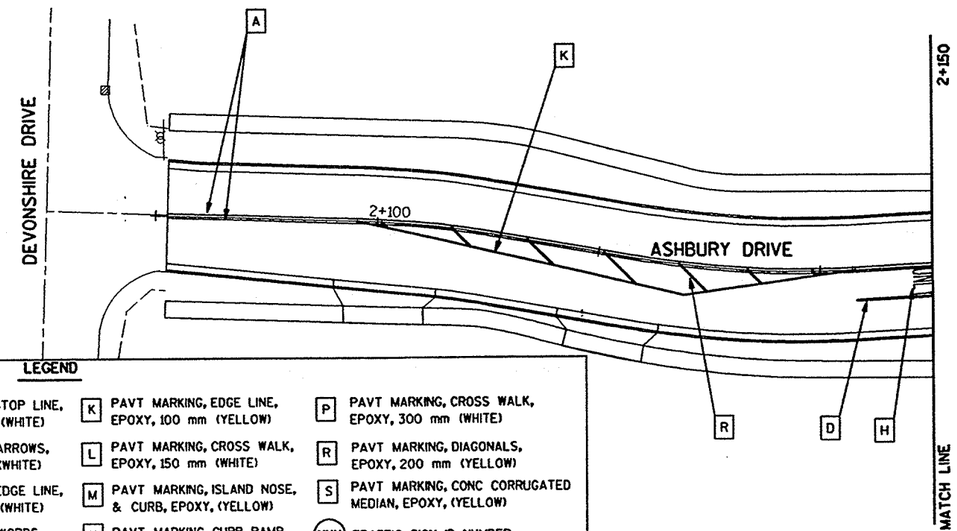
PAVEMENT MARKING & PERMANENT SIGNING PLAN	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.50 M



PAVEMENT MARKING & PERMANENT SIGNING PLAN | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-95 | SHEET NO: 2.51 M

WISDOT: MSHT40

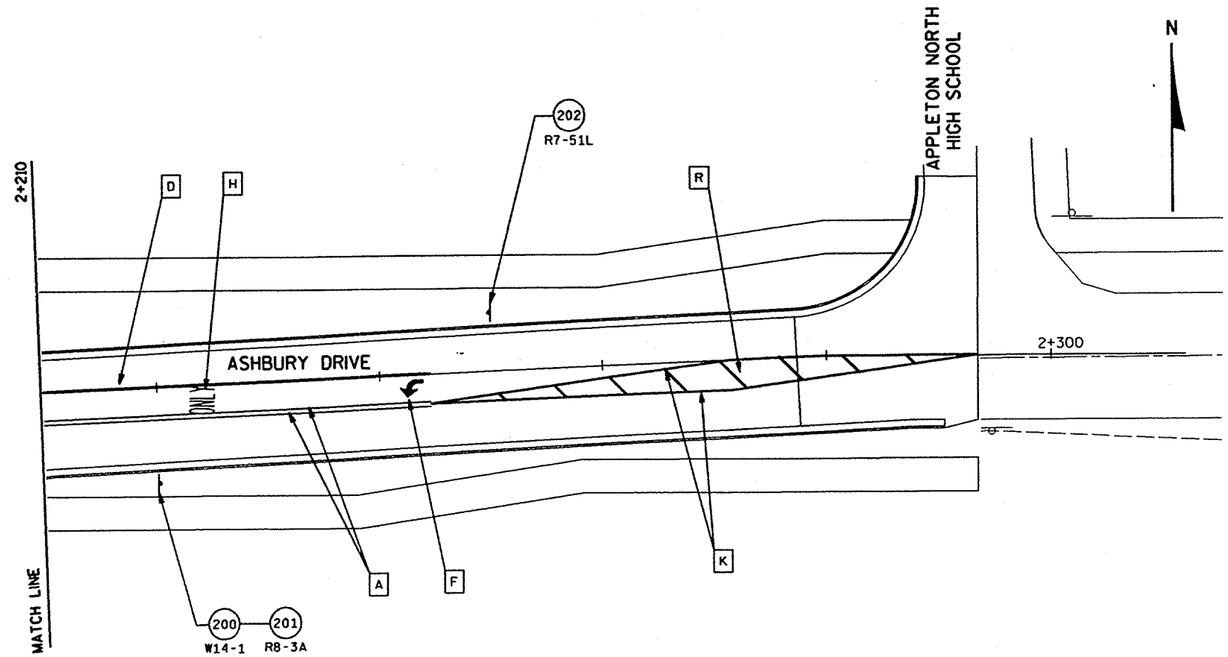
FILE NAME: E1339A98/SHEETS /PLAN /PM07 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/ /99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1,2,3,4,5,6,7,8, 9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



N

LEGEND

- A — PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DOUBLE YELLOW)
- B — PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DASHED YELLOW)
- C — PAVT MARKING, LANE LINE, EPOXY, 100 mm (DASHED WHITE)
- D — PAVT MARKING, CHANNELIZING, EPOXY, 200 mm (WHITE)
- E — PAVT MARKING, STOP LINE, EPOXY, 450 mm (WHITE)
- F — PAVT MARKING, ARROWS, EPOXY, TYPE 2 (WHITE)
- G — PAVT MARKING, EDGE LINE, EPOXY, 100 mm (WHITE)
- H — PAVT MARKING, WORDS, EPOXY, (WHITE)
- K — PAVT MARKING, EDGE LINE, EPOXY, 100 mm (YELLOW)
- L — PAVT MARKING, CROSS WALK, EPOXY, 150 mm (WHITE)
- M — PAVT MARKING, ISLAND NOSE, & CURB, EPOXY, (YELLOW)
- N — PAVT MARKING, CURB RAMP, EPOXY, (YELLOW).
- P — PAVT MARKING, CROSS WALK, EPOXY, 300 mm (WHITE)
- R — PAVT MARKING, DIAGONALS, EPOXY, 200 mm (YELLOW)
- S — PAVT MARKING, CONC CORRUGATED MEDIAN, EPOXY, (YELLOW)
- XXX / YYY — TRAFFIC SIGN ID NUMBER AND CODE NUMBER
- TRAFFIC SIGN

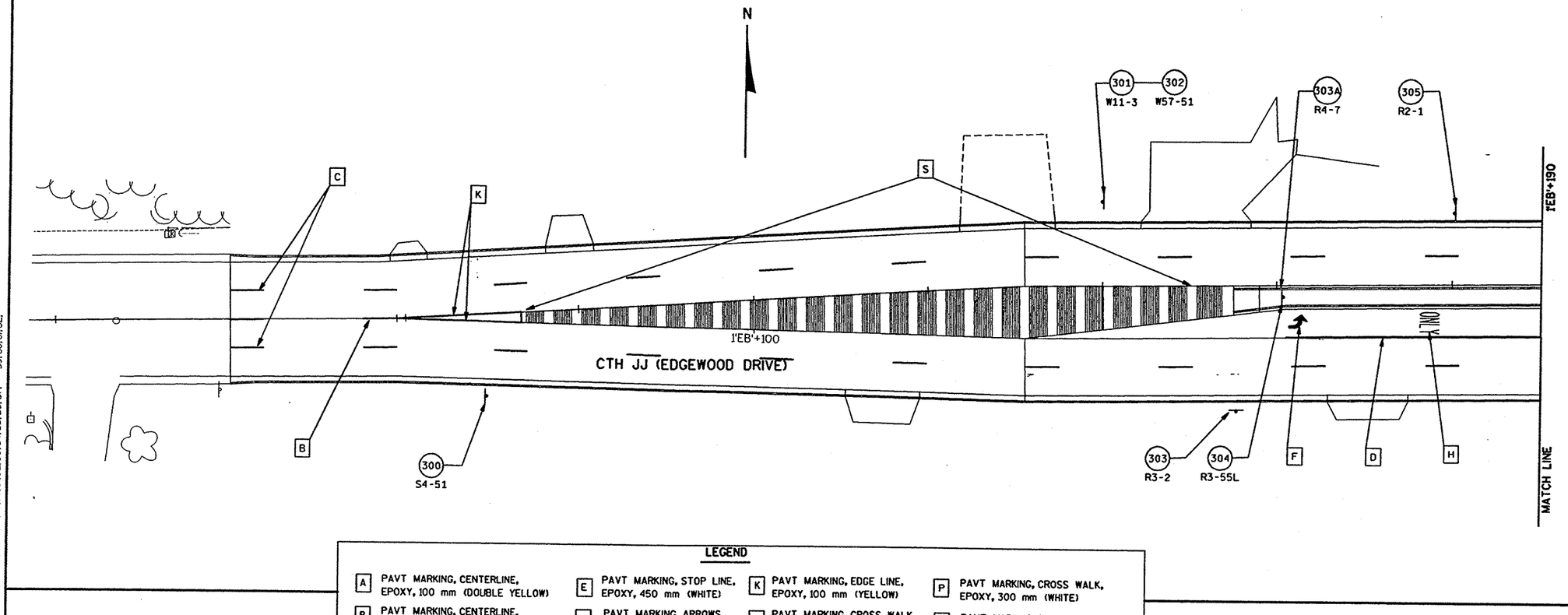


N

PAVEMENT MARKING & PERMANENT SIGNING PLAN | 0 5 10 | HWY: | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.52 M

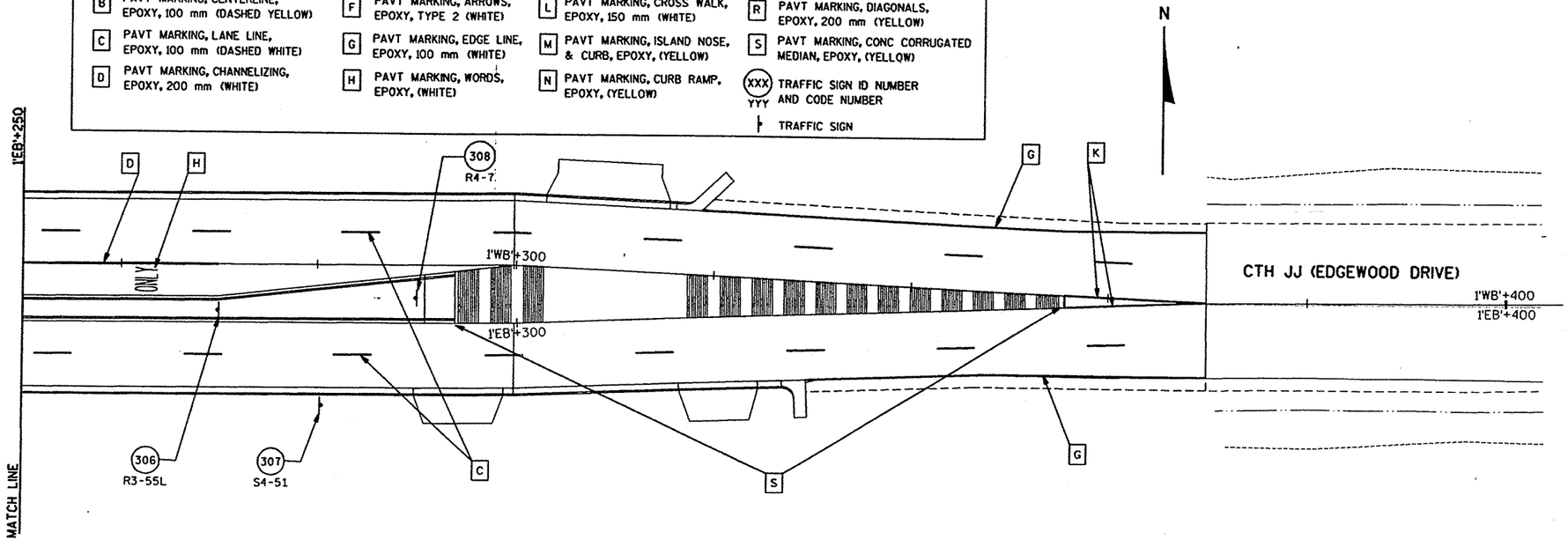
WISDOT: MSHT40

PLOT DATE: 05/ /99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
FILE NAME: E1339A98/SHEETS /PLAN /PM04A .DGN TECH/ENGR: DPP/SDC PLOT DATE: / /
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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,



LEGEND

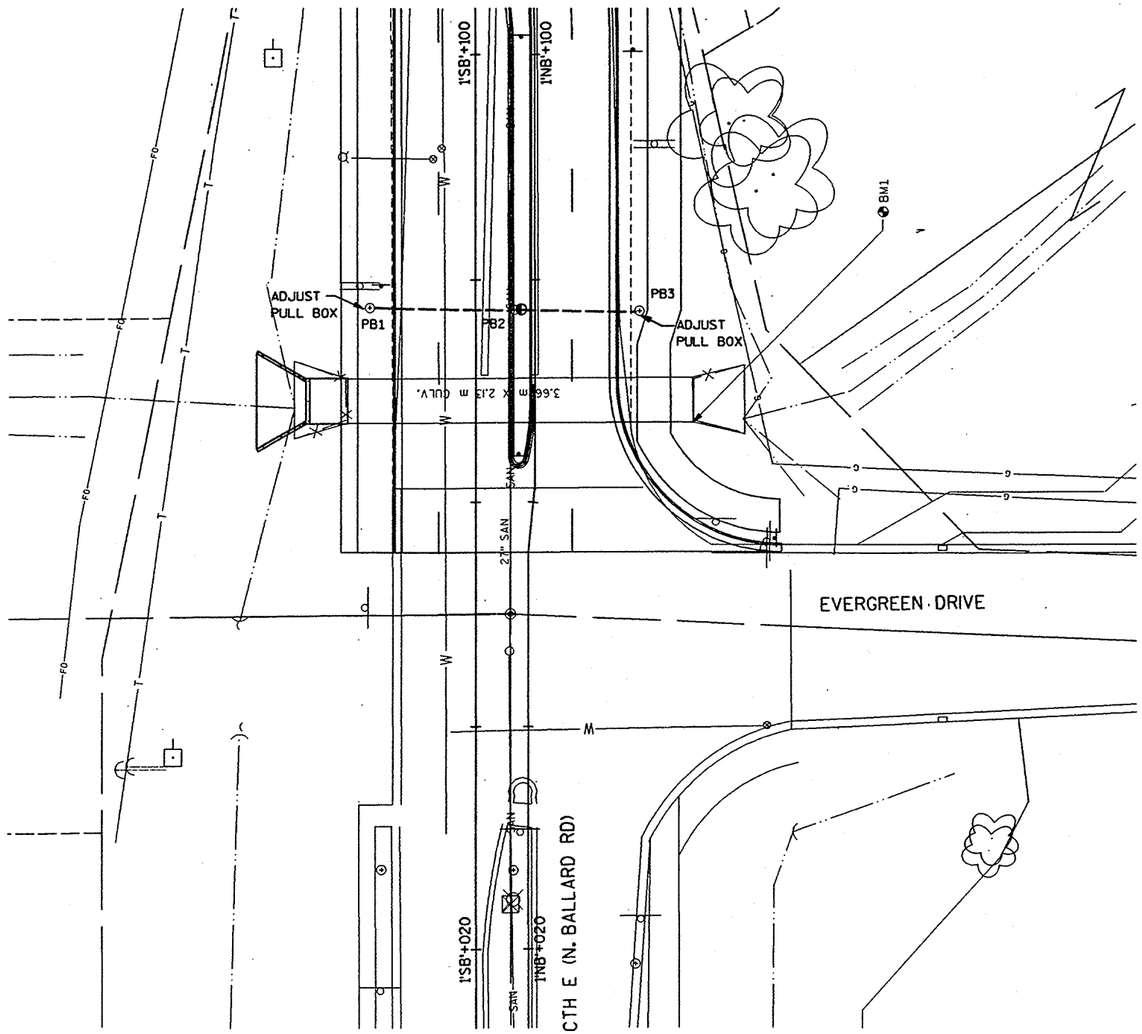
- A — PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DOUBLE YELLOW)
- B — PAVT MARKING, CENTERLINE, EPOXY, 100 mm (DASHED YELLOW)
- C — PAVT MARKING, LANE LINE, EPOXY, 100 mm (DASHED WHITE)
- D — PAVT MARKING, CHANNELIZING, EPOXY, 200 mm (WHITE)
- E — PAVT MARKING, STOP LINE, EPOXY, 450 mm (WHITE)
- F — PAVT MARKING, ARROWS, EPOXY, TYPE 2 (WHITE)
- G — PAVT MARKING, EDGE LINE, EPOXY, 100 mm (WHITE)
- H — PAVT MARKING, WORDS, EPOXY, (WHITE)
- K — PAVT MARKING, EDGE LINE, EPOXY, 100 mm (YELLOW)
- L — PAVT MARKING, CROSS WALK, EPOXY, 150 mm (WHITE)
- M — PAVT MARKING, ISLAND NOSE, & CURB, EPOXY, (YELLOW)
- N — PAVT MARKING, CURB RAMP, EPOXY, (YELLOW)
- P — PAVT MARKING, CROSS WALK, EPOXY, 300 mm (WHITE)
- R — PAVT MARKING, DIAGONALS, EPOXY, 200 mm (YELLOW)
- S — PAVT MARKING, CONC CORRUGATED MEDIAN, EPOXY, (YELLOW)
- XXX / YYY — TRAFFIC SIGN ID NUMBER AND CODE NUMBER
- TRAFFIC SIGN



PAVEMENT MARKING & PERMANENT SIGNING PLAN | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-95 | SHEET NO: 2.53 M

WISDOT: MSHT40

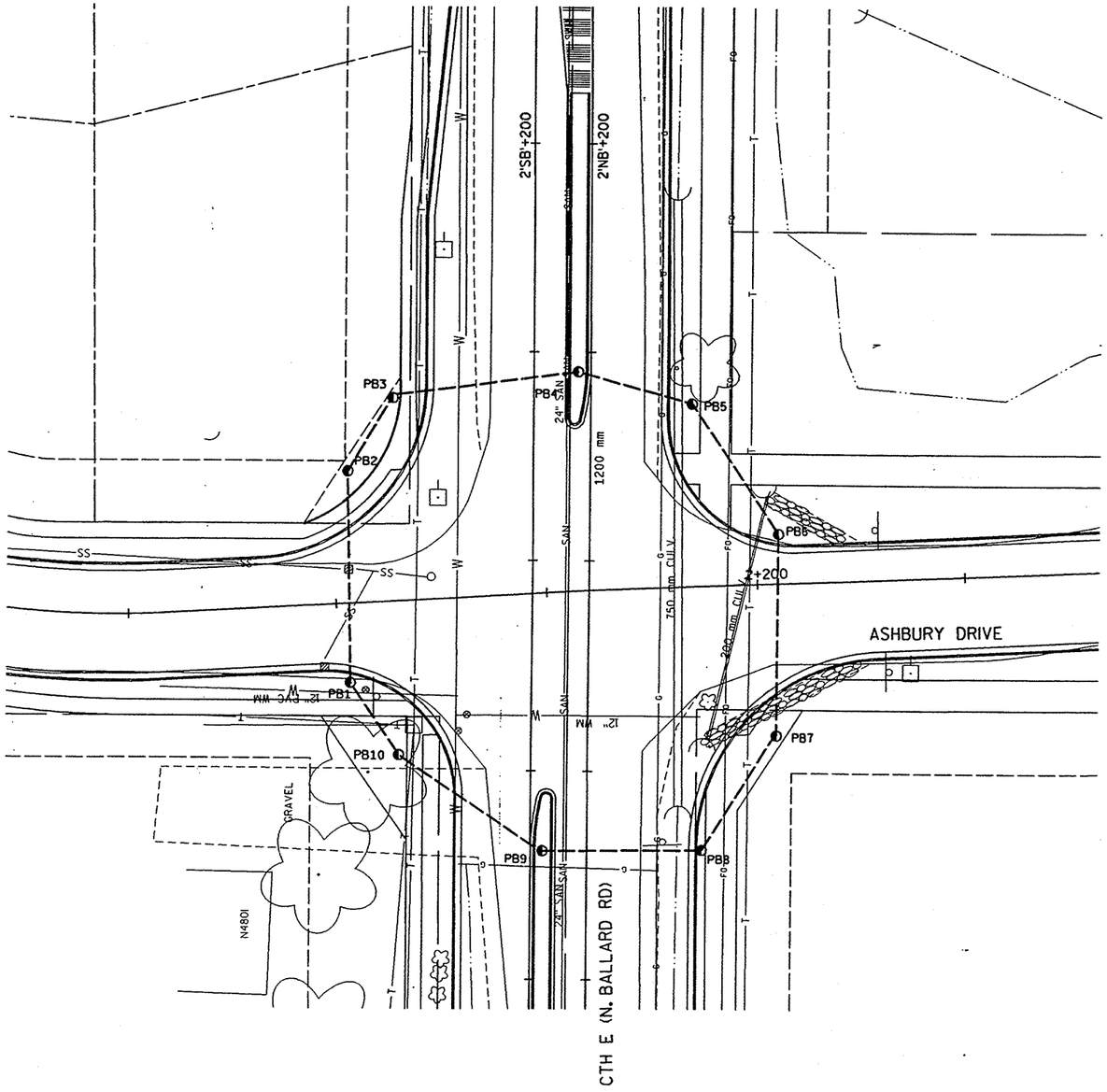
FILE NAME: E1339A98/SHEETS /PLAN /PM06A .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/ /99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57, 59,60,61,62,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



TRAFFIC SIGNAL PLAN (CONDUIT & PULL BOXES) - BALLARD RD & EVERGREEN DR | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.54 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /SG04 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 07/22/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
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, 59,60,61,62.



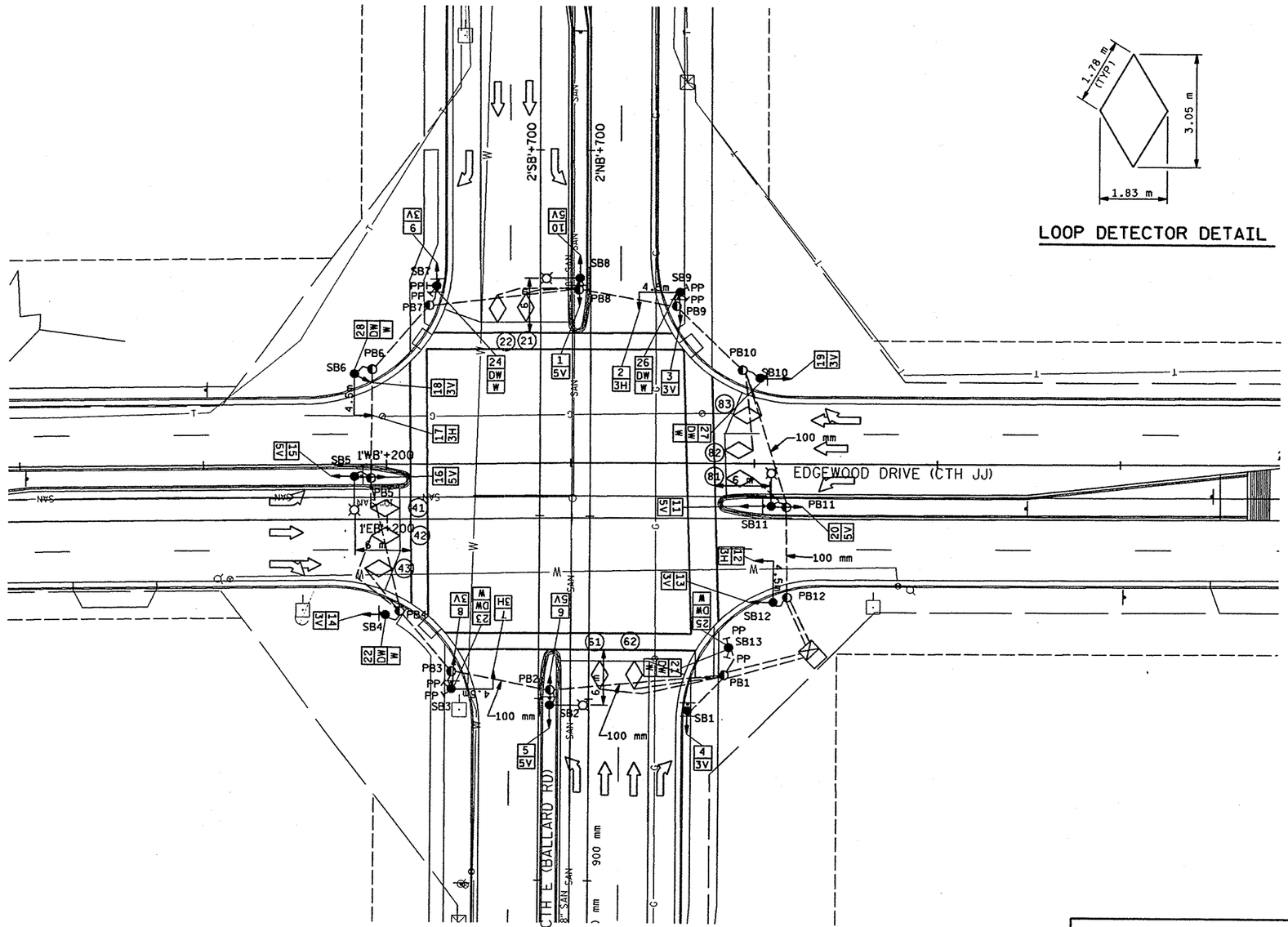
LEGEND

◐PB-00	600 x 1200 mm PULL BOX
- - - - - - -	75 mm CONDUIT OR AS LABELED

TRAFFIC SIGNAL PLAN (CONDUIT & PULL BOXES) - BALLARD ROAD & ASHBURY DRIVE | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 2.55 M

WISDOT: MSHT40

FILE NAME: e1339a98/SHEETS /PLAN /SG05 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 07/22/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
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, 59,60,61,62,



LOOP DETECTOR DETAIL

SIGNAL FACES AND NUMBERS

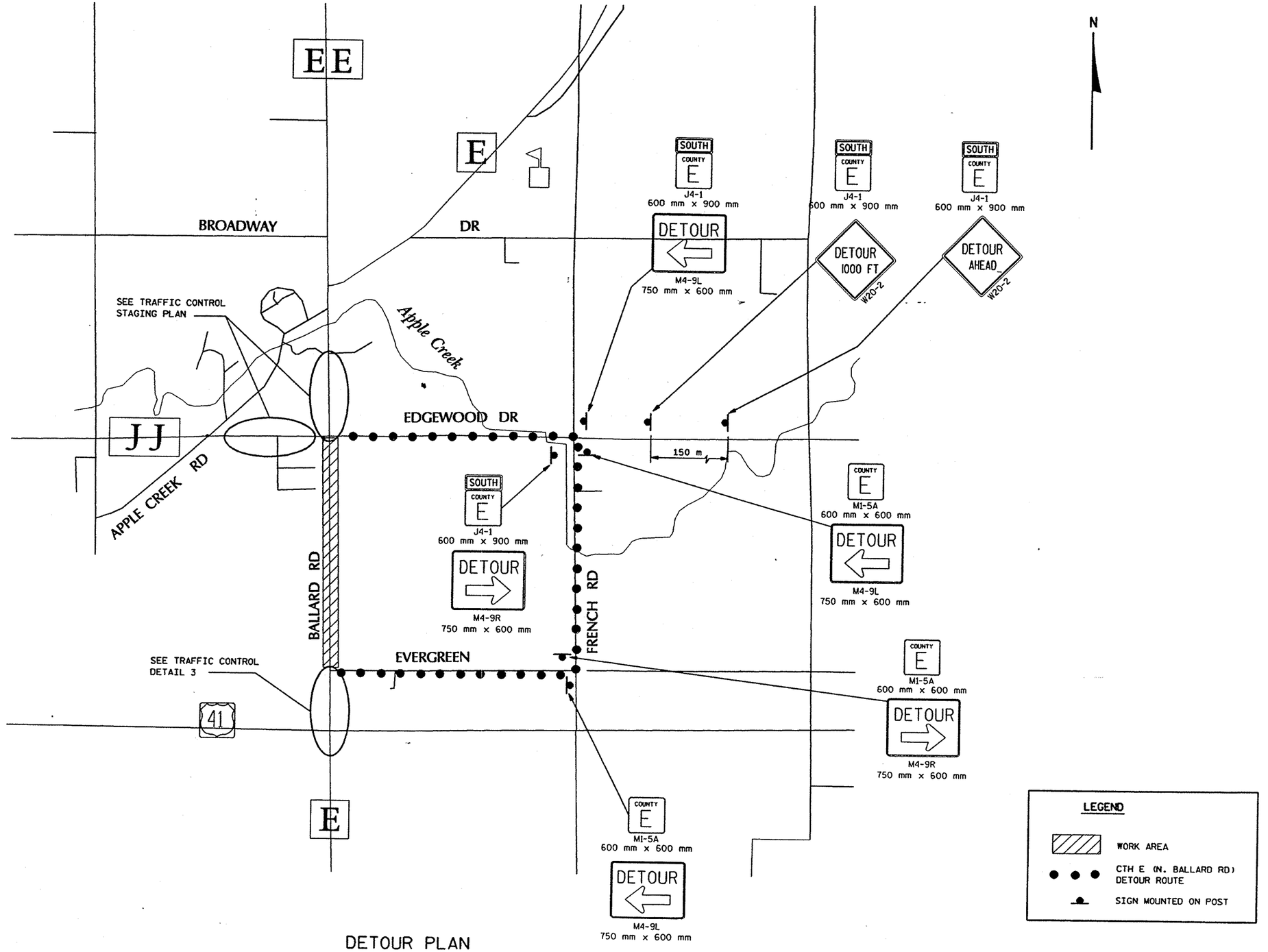
3-V	3-H
R Y G	R Y G
3,4,8,9,13,14,18,19	2,7,12,17
5-V	
R Y G ← →	DW W
1,5,6,10,11,15,16,20	21,22,23,24,25, 26,27,28

LEGEND

SB-00	SIGNAL HEAD PEDESTAL MOUNT
PB-00	600 x 1200 mm PULL BOX
	75 mm CONDUIT OR AS LABELED
	50 mm CONDUIT
4.5 m	SIGNAL HEAD W/LUMINAIRE
4.5 m	SIGNAL HEAD MAST-ARM MOUNT
	SIGNAL CONTROL CABINET MOUNTED TYPE 9 BASE
	LANE USE
PP	PEDESTRIAN PUSH BUTTON

TRAFFIC SIGNAL PLAN - BALLARD ROAD AND CTH JJ | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-95 | SHEET NO: 2.56 M

FILE NAME: E1339A98/SHEETS /PLAN /SG01 .DGN TECH/ENGR: DPP/MAM PLOT DATE: 03/07/98
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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, 59,60,61,62.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

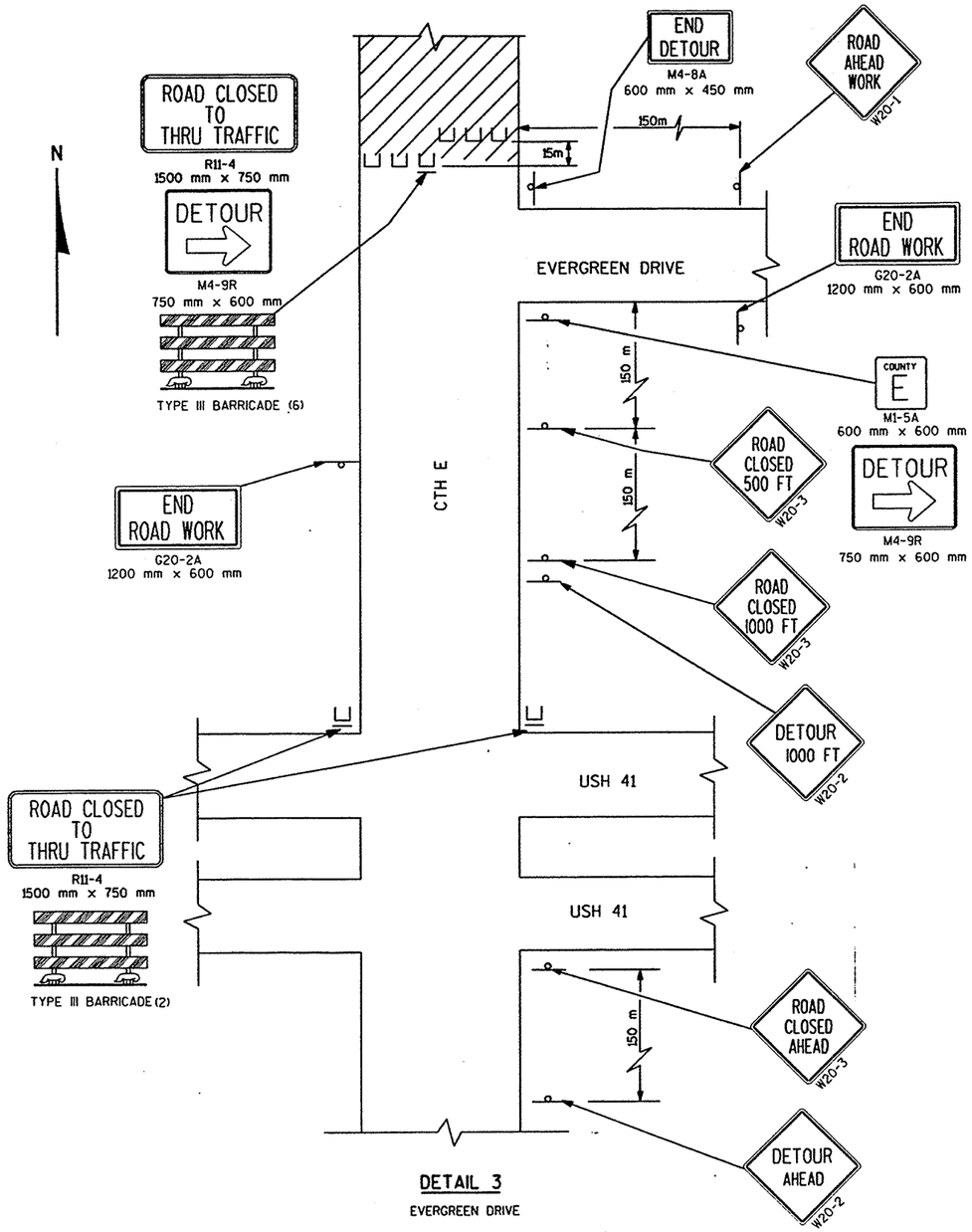


DETOUR PLAN

TRAFFIC CONTROL - CTH E (N. BALLARD RD)		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.57 M

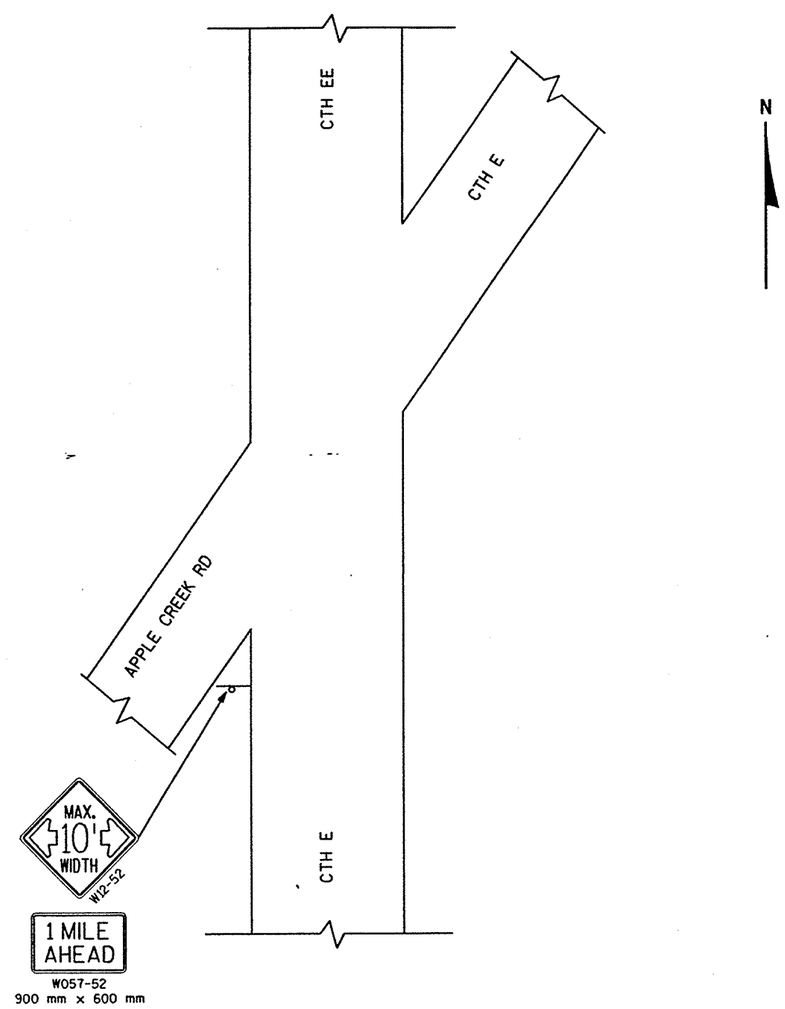
WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /TRAFFIC /TC13 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 10/18/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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, 41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57, 59,60,61,62 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



DETAIL 3

EVERGREEN DRIVE



DETAIL 4

LEGEND:

- SIGN MOUNTED ON POST
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- WORK AREA
- FLAG, 400 mm X 400 mm

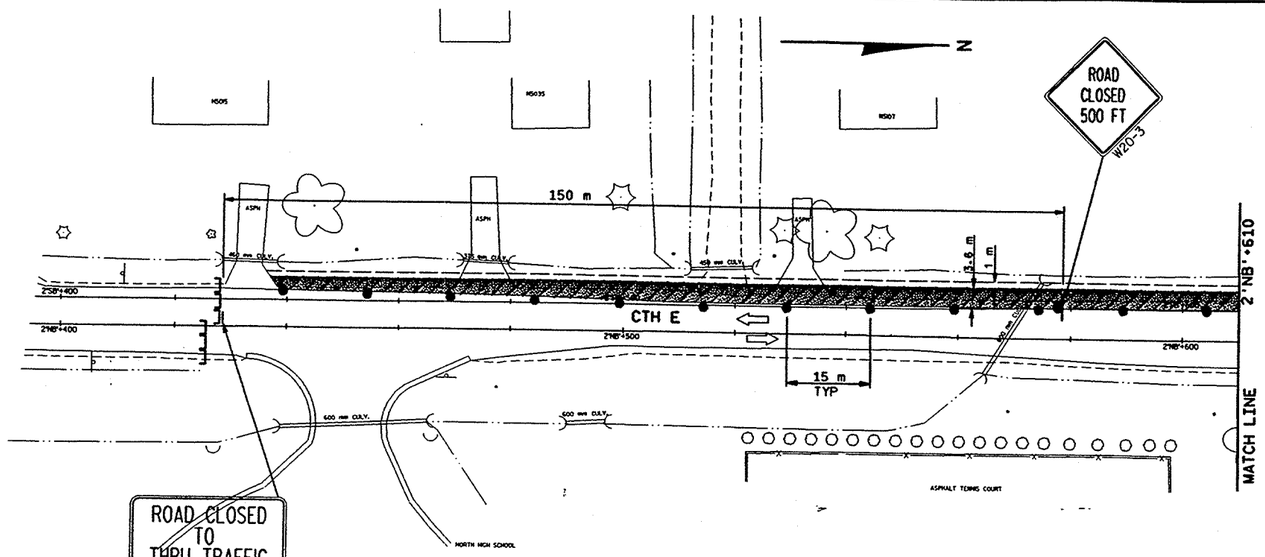
NOTES FOR TRAFFIC CONTROL:

1) ALL SIGNS SHALL BE 1200mm x 1200mm UNLESS OTHERWISE NOTED.
2) ALL SIGN, DRUM AND BARRICADE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
3) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
4) TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING THE SIGNS SHALL BE INCIDENTAL TO THE TRAFFIC CONTROL. (L.S.)
5) ALL TEMPORARY PAVEMENT MARKING DIAGONALLY CROSSING PERMANENT PAVEMENT OR STRUCTURES SHALL BE REMOVEABLE TAPE. TEMPORARY PAVEMENT MARKING PARALLEL TO PERMANENT LANES SHALL BE PAINT UNLESS OHERWISE NOTED. ALL CONFLICTING EXISTING PAVEMENT MARKING SHALL BE REMOVED.
6) NUMBER OF BARRICADES REQUIRED IS SHOWN IN PARENTHESIS AT EACH LOCATION.
7) SIGNS THAT ARE IN PLACE LESS THAN SEVEN (7) CALENDAR DAYS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL DETAILS		HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 2.58 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /TRAFFIC /TD02 .2DG PLOT DATE: 10/14/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • /. 51,
PLOT NAME: SEE FILE NAME 56, 57, 59,
TECH/ENGR: DPP/SDC PLOT SCALE: 1:



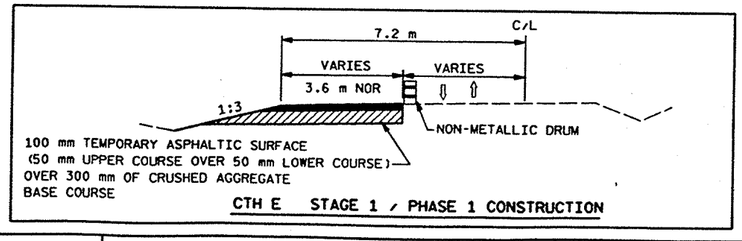
STAGE 1, PHASE 1

LEGEND

- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAG, 400 mm X 400 mm
- SIGN ON PERMANENT SUPPORT

NOTES FOR TRAFFIC CONTROL

1.) ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.
2.) ALL SIGN, DRUM AND BARRICADE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
3.) "WO" SIGNS ARE THE SAME AS "W' SIGNS EXCEPT THE BACKGROUND IS ORANGE.
4.) TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING SIGNS SHALL BE INCIDENTAL TO TRAFFIC CONTROLS (L.S.).
5.) ALL TEMPORARY PAVEMENT MARKINGS CROSSING PERMANENT PAVEMENT OR STRUCTURES SHALL BE REMOVABLE TAPE.
6.) SIGNS THAT ARE IN PLACE LESS THAN SEVEN (7) CALENDAR DAYS MAY BE MOUNTED ON PORTABLE SUPPORTS.

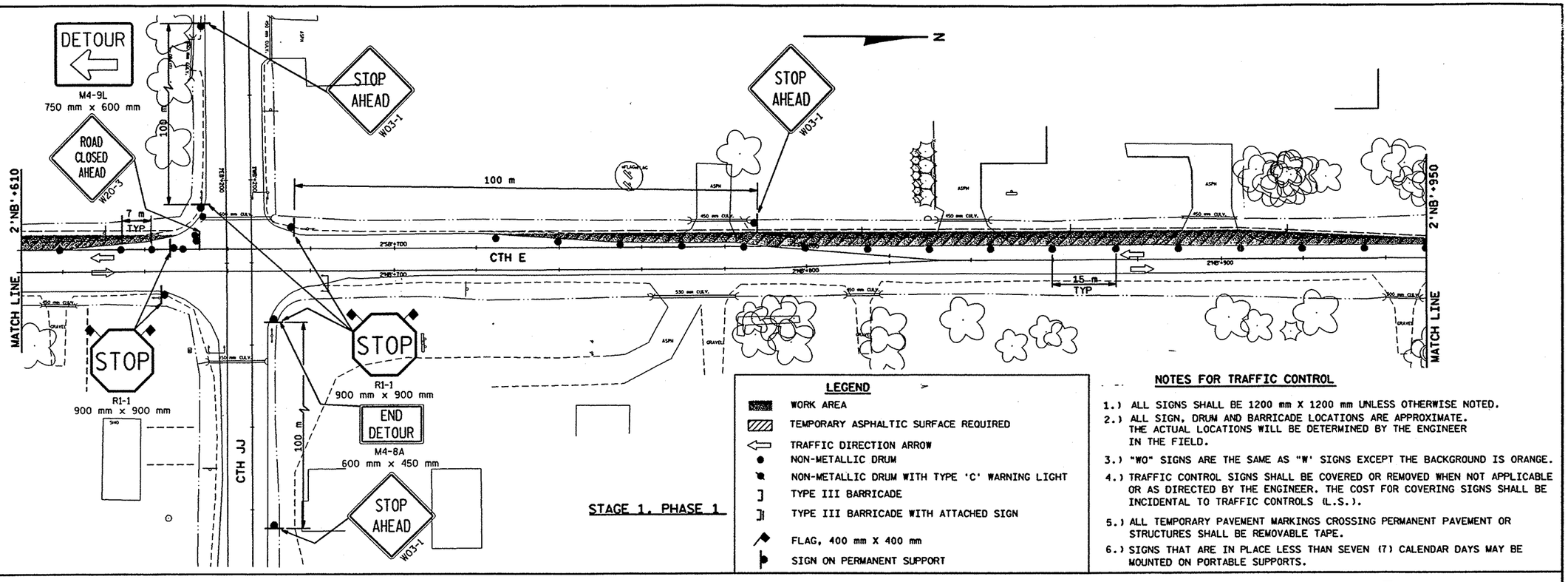


CTH E STAGE 1 / PHASE 1 CONSTRUCTION

TRAFFIC CONTROL - CTH E (N. BALLARD RD) | 0 10 20 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-95 | SHEET NO: 2.59 M

WisDOT: MSHT40

PLOT DATE: 10/14/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
DATE: / / REV. DATE: /
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, 59,60,61,62,
FILE NAME: E1339A98/SHEETS /TRAFFIC /TC01A .DGN TECH/ENGR: DPP/SDC
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654



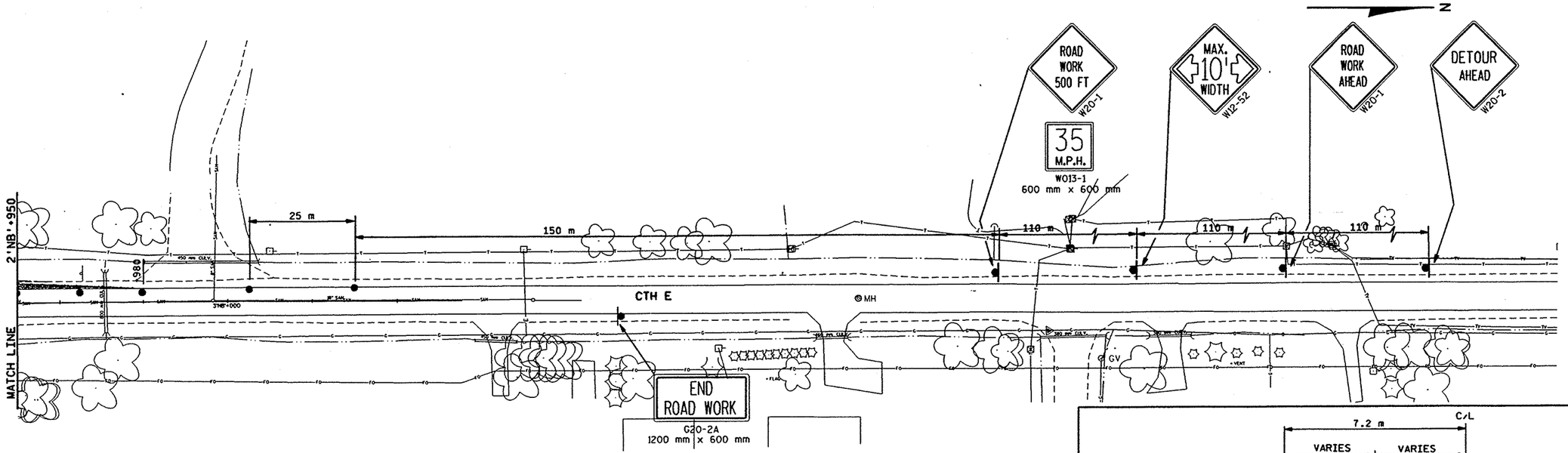
STAGE 1, PHASE 1

LEGEND

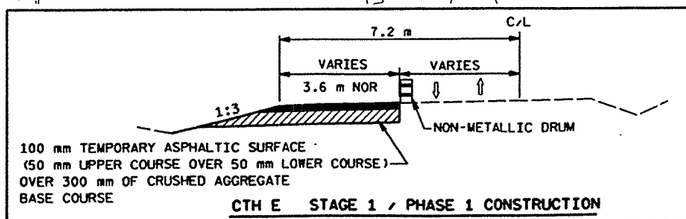
- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAG, 400 mm X 400 mm
- SIGN ON PERMANENT SUPPORT

NOTES FOR TRAFFIC CONTROL

1.) ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.
2.) ALL SIGN, DRUM AND BARRICADE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
3.) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
4.) TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING SIGNS SHALL BE INCIDENTAL TO TRAFFIC CONTROLS (L.S.).
5.) ALL TEMPORARY PAVEMENT MARKINGS CROSSING PERMANENT PAVEMENT OR STRUCTURES SHALL BE REMOVABLE TAPE.
6.) SIGNS THAT ARE IN PLACE LESS THAN SEVEN (7) CALENDAR DAYS MAY BE MOUNTED ON PORTABLE SUPPORTS.



STAGE 1, PHASE 1



CTH E STAGE 1 / PHASE 1 CONSTRUCTION

TRAFFIC CONTROL - CTH E (N. BALLARD RD)	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.60 M

WISDOT: MSHT40

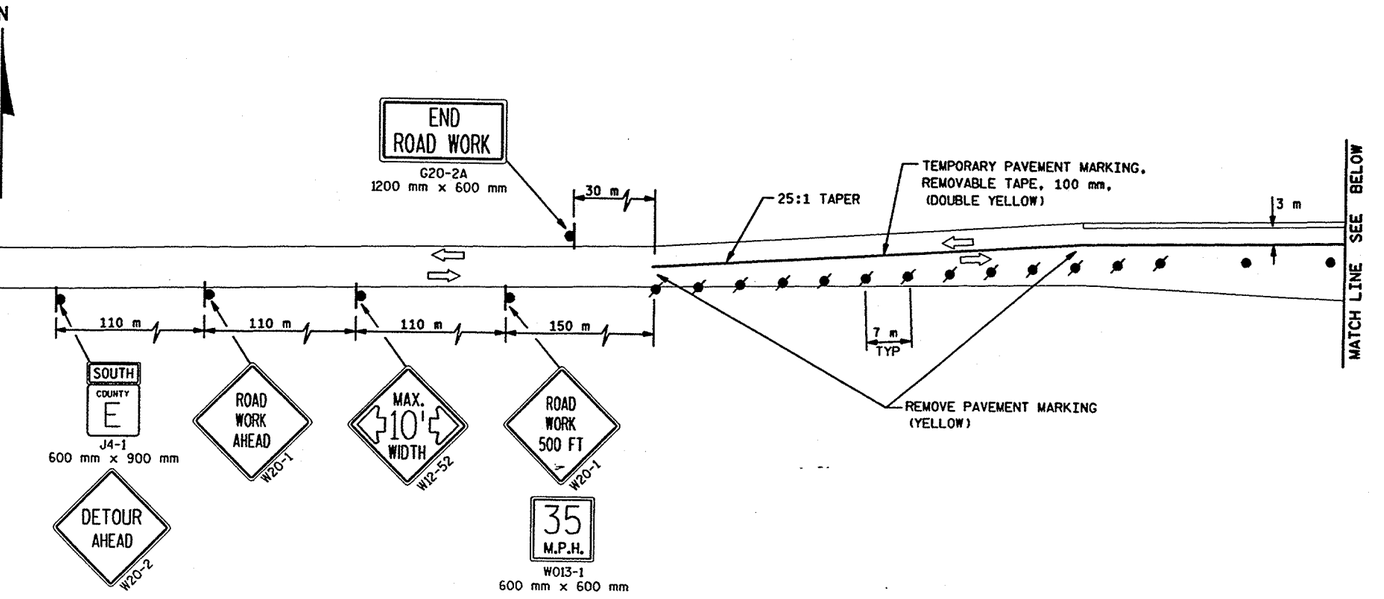
FILE NAME: E1339A98/SHEETS /TRAFFIC /TC01 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 08/04/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

LEGEND

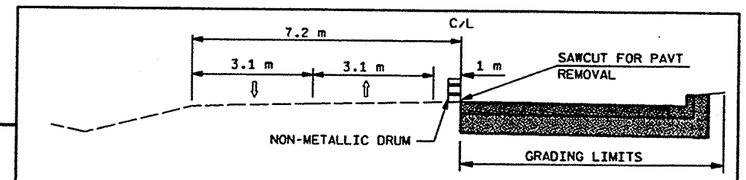
- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAG, 400 mm X 400 mm
- SIGN ON PERMANENT SUPPORT

NOTES FOR TRAFFIC CONTROL

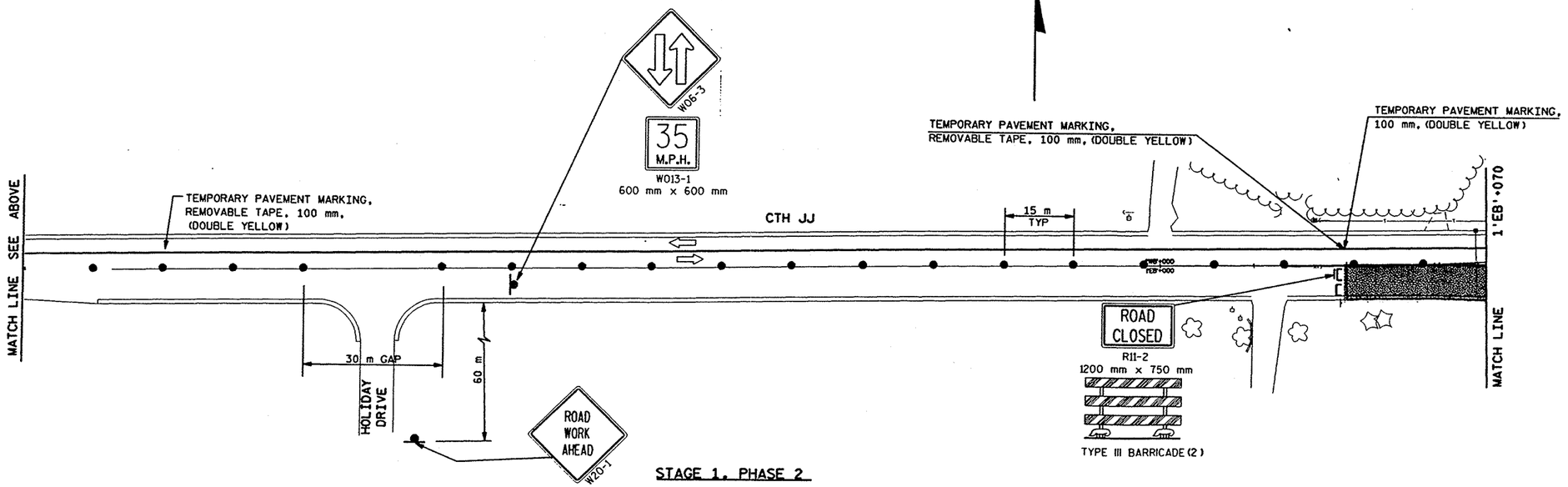
1.) ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.
2.) ALL SIGN, DRUM AND BARRICADE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
3.) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
4.) TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING SIGNS SHALL BE INCIDENTAL TO TRAFFIC CONTROLS (T.C.S.).
5.) ALL TEMPORARY PAVEMENT MARKINGS CROSSING PERMANENT PAVEMENT OR STRUCTURES SHALL BE REMOVABLE TAPE.
6.) SIGNS THAT ARE IN PLACE LESS THAN SEVEN (7) CALENDAR DAYS MAY BE MOUNTED ON PORTABLE SUPPORTS.



STAGE 1, PHASE 2



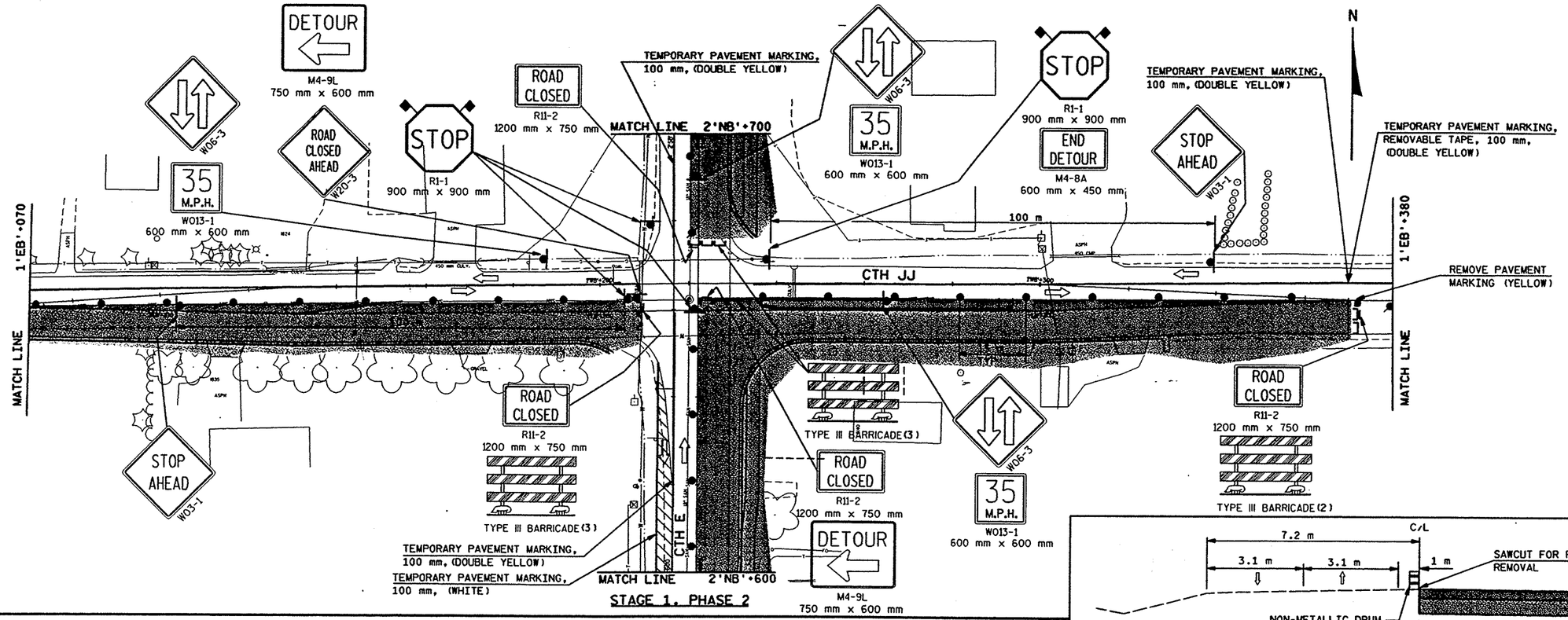
CTH JJ STAGE 1 / PHASE 2 CONSTRUCTION

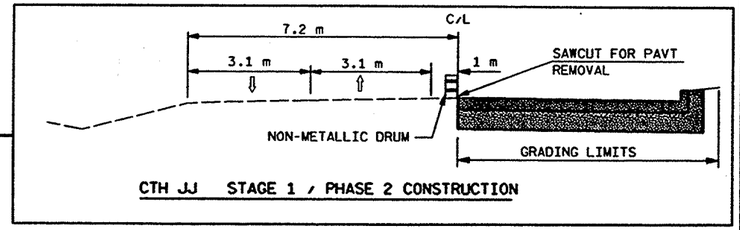


STAGE 1, PHASE 2

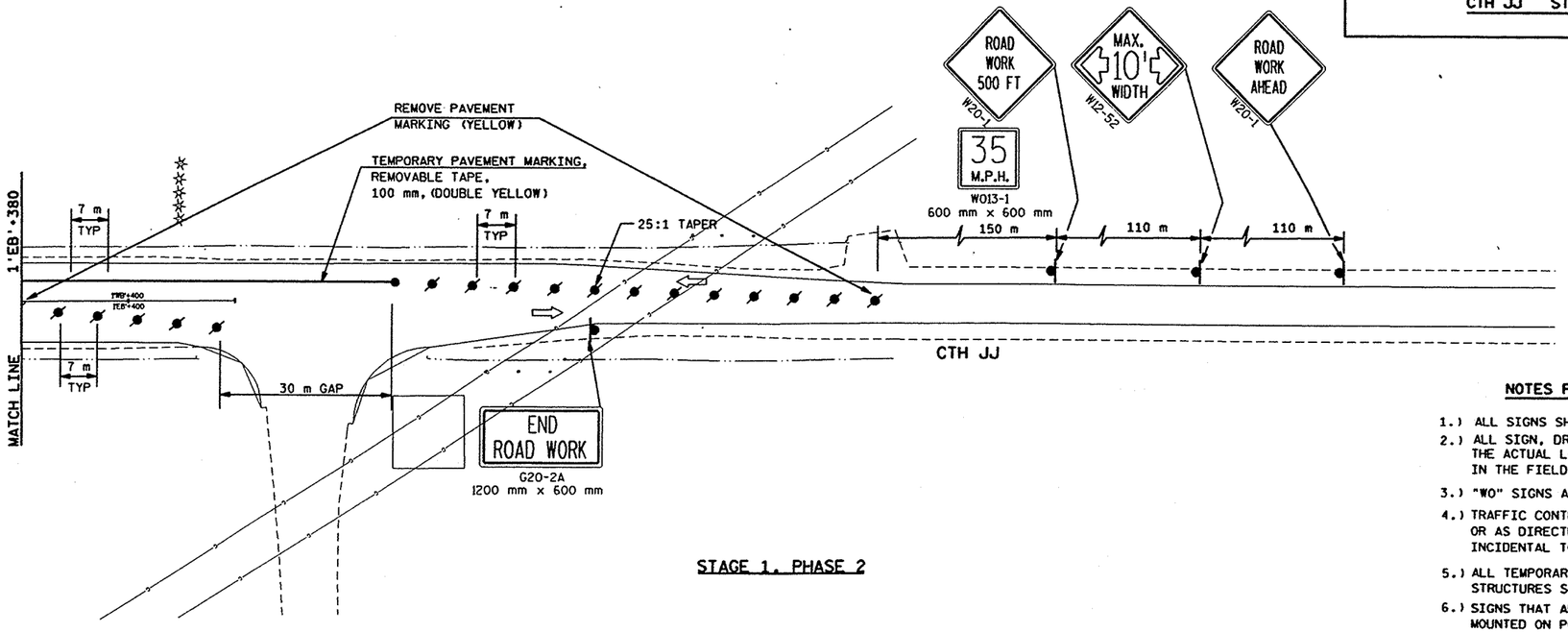
TRAFFIC CONTROL FOR CTH JJ	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.61	M

FILE NAME: E1339A98/SHEETS /TRAFFIC /TC03 .DGN TECH/ENGR: DPP/SDC
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
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, 59,60,61,62.
PLOT DATE: 07/22/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:





CTH JJ STAGE 1 / PHASE 2 CONSTRUCTION



STAGE 1, PHASE 2

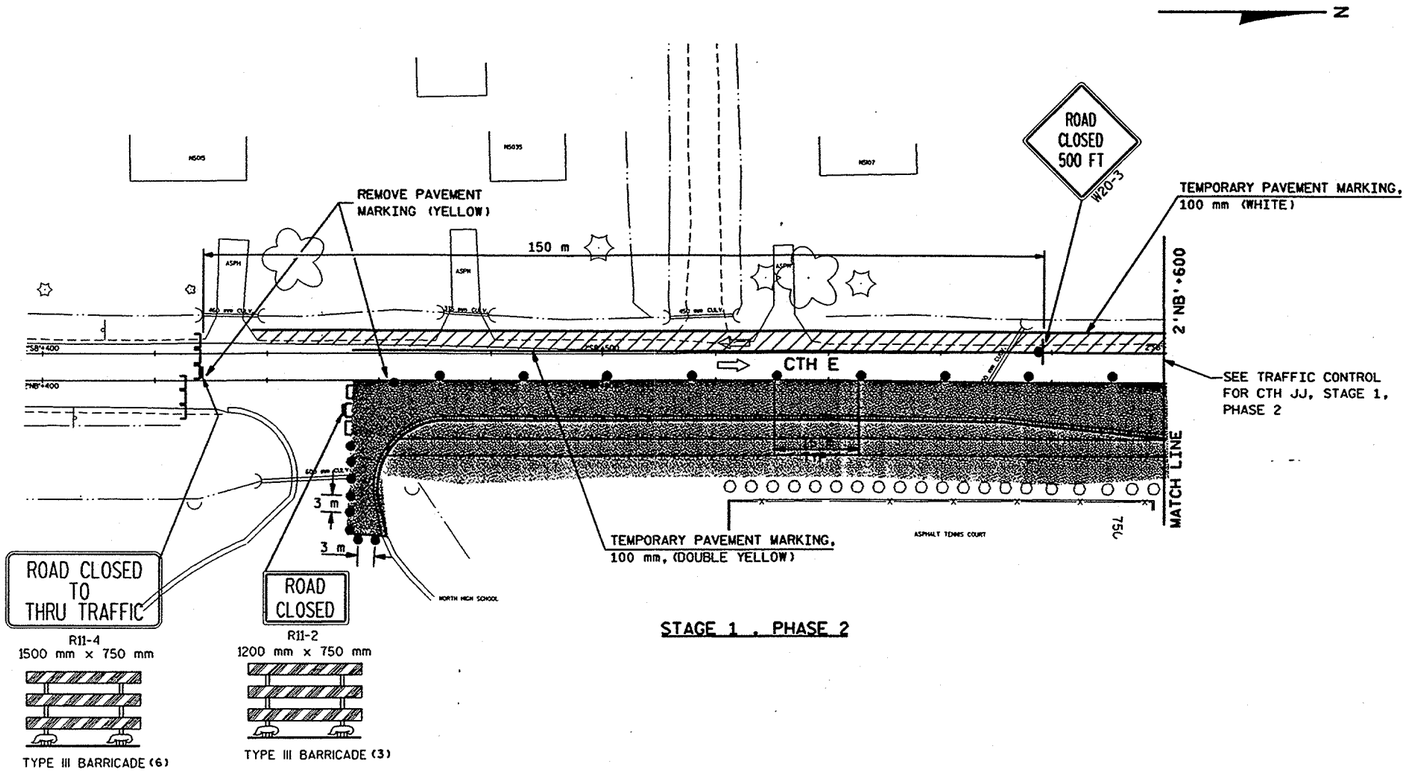
LEGEND

- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAG, 400 mm X 400 mm
- SIGN ON PERMANENT SUPPORT

NOTES FOR TRAFFIC CONTROL

1.) ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.
2.) ALL SIGN, DRUM AND BARRICADE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
3.) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
4.) TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING SIGNS SHALL BE INCIDENTAL TO TRAFFIC CONTROLS (L.S.).
5.) ALL TEMPORARY PAVEMENT MARKINGS CROSSING PERMANENT PAVEMENT OR STRUCTURES SHALL BE REMOVABLE TAPE.
6.) SIGNS THAT ARE IN PLACE LESS THAN SEVEN (7) CALENDAR DAYS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL FOR CTH JJ	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.62 M



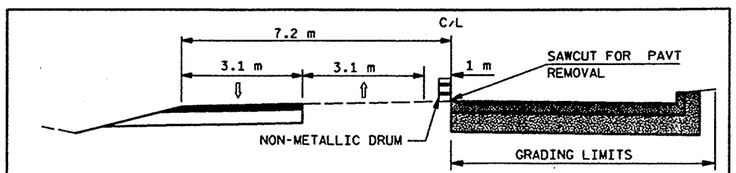
STAGE 1 , PHASE 2

NOTES FOR TRAFFIC CONTROL

1.) ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.
2.) ALL SIGN, DRUM AND BARRICADE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERWINED BY THE ENGINEER IN THE FIELD.
3.) "WO" SIGNS ARE THE SAME AS "W' SIGNS EXCEPT THE BACKGROUND IS ORANGE.
4.) TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING SIGNS SHALL BE INCIDENTAL TO TRAFFIC CONTROLS (L.S.).
5.) ALL TEMPORARY PAVEMENT MARKINGS CROSSING PERMANENT PAVEMENT OR STRUCTURES SHALL BE REMOVABLE TAPE.
6.) SIGNS THAT ARE IN PLACE LESS THAN SEVEN (7) CALENDAR DAYS MAY BE MOUNTED ON PORTABLE SUPPORTS.

LEGEND

- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAG, 400 mm X 400 mm
- SIGN ON PERMANENT SUPPORT



CTH E STAGE 1 / PHASE 2 CONSTRUCTION

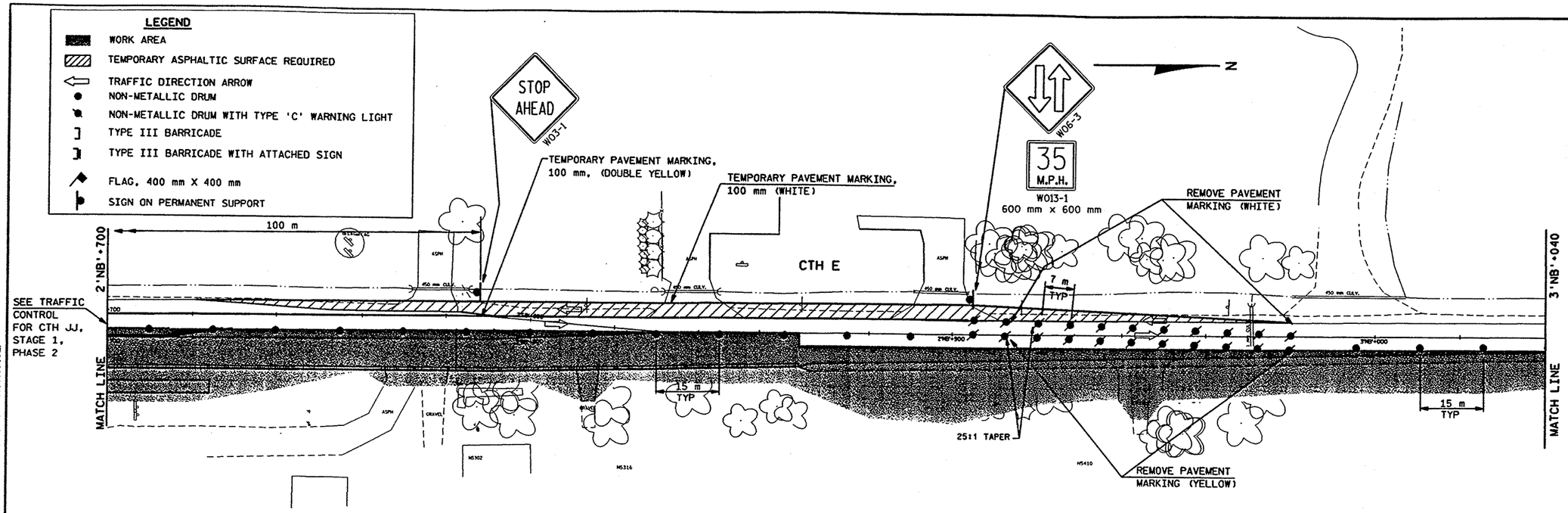
TRAFFIC CONTROL FOR CTH E (N. BALLARD RD)	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.63 M

WISDOT: MSHT40

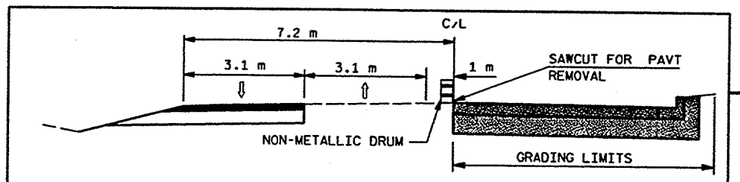
FILE NAME: E1339A98/SHEETS /TRAFFIC /TC03A .DGN TECH/ENGR: DPP/SDC PLOT DATE: 10/14/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57, 59,60,61,62.

LEGEND

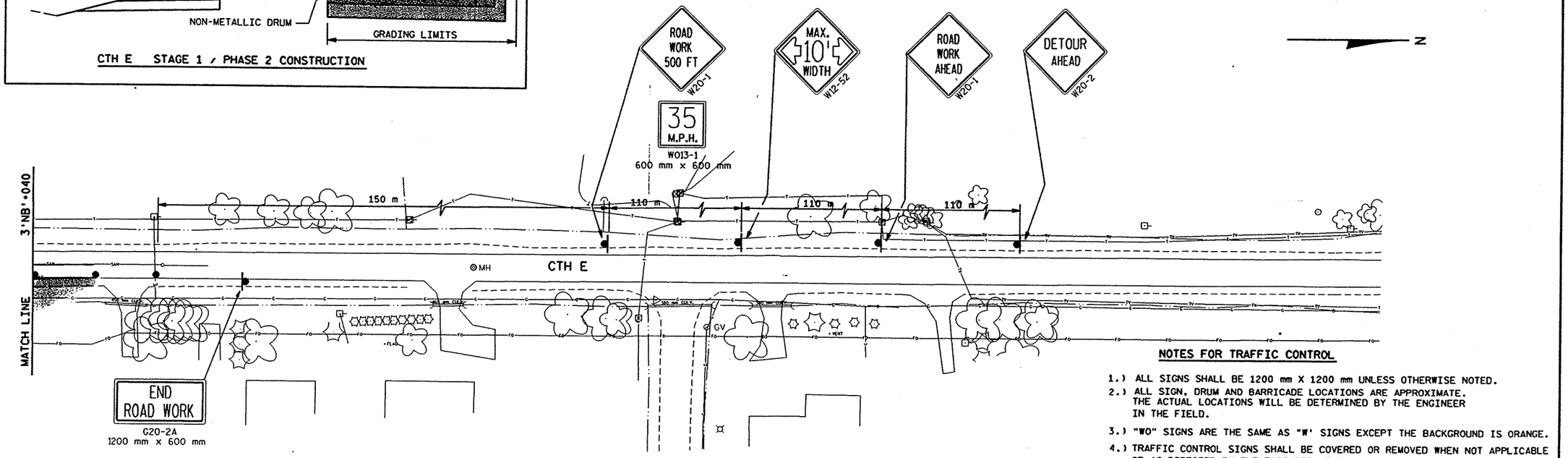
- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAG, 400 mm X 400 mm
- SIGN ON PERMANENT SUPPORT



STAGE 1 . PHASE 2



CTH E STAGE 1 / PHASE 2 CONSTRUCTION



STAGE 1 . PHASE 2

NOTES FOR TRAFFIC CONTROL

1.) ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.
2.) ALL SIGN, DRUM AND BARRICADE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
3.) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
4.) TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING SIGNS SHALL BE INCIDENTAL TO TRAFFIC CONTROLS (L.S.).
5.) ALL TEMPORARY PAVEMENT MARKINGS CROSSING PERMANENT PAVEMENT OR STRUCTURES SHALL BE REMOVABLE TAPE.
6.) SIGNS THAT ARE IN PLACE LESS THAN SEVEN (7) CALENDAR DAYS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL FOR CTH E (N. BALLARD RD)	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.64 M

LEGEND

- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAG, 400 mm X 400 mm
- SIGN ON PERMANENT SUPPORT

N

END ROAD WORK
G20-2A
1200 mm x 600 mm

30 m

TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 100 mm, (DOUBLE YELLOW)

15 m TYP

15 m TYP

MATCH LINE SEE BELOW

CTH JJ

110 m | 110 m | 110 m | 150 m

SOUTH COUNTY E
J4-1
600 mm x 900 mm

ROAD WORK AHEAD W20-1

MAX. 10' WIDTH W12-52

ROAD WORK 500 FT W20-1

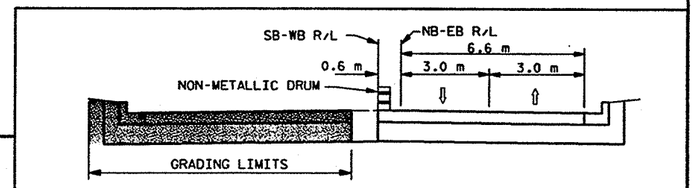
DETOUR AHEAD W20-2

35 M.P.H.
W013-1
600 mm x 600 mm

NOTES FOR TRAFFIC CONTROL

1.) ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.
2.) ALL SIGN, DRUM AND BARRICADE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
3.) "WO" SIGNS ARE THE SAME AS "W' SIGNS EXCEPT THE BACKGROUND IS ORANGE.
4.) TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING SIGNS SHALL BE INCIDENTAL TO TRAFFIC CONTROLS (L.S.).
5.) ALL TEMPORARY PAVEMENT MARKINGS CROSSING PERMANENT PAVEMENT OR STRUCTURES SHALL BE REMOVABLE TAPE.
6.) SIGNS THAT ARE IN PLACE LESS THAN SEVEN (7) CALENDAR DAYS MAY BE MOUNTED ON PORTABLE SUPPORTS.

STAGE 2



CTH E /CTH JJ STAGE 2

N

ROAD CLOSED
R11-2
1200 mm x 750 mm

TYPE III BARRICADE (2)

REMOVE PAVEMENT MARKING (YELLOW)

TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 100 mm, (DOUBLE YELLOW)

15 m TYP

7 m TYP

CTH JJ

MATCH LINE SEE ABOVE

30 m GAP

60 m

HOLIDAY DRIVE

ROAD WORK AHEAD W20-1

7 m TYP

25:1 TAPER

W06-3

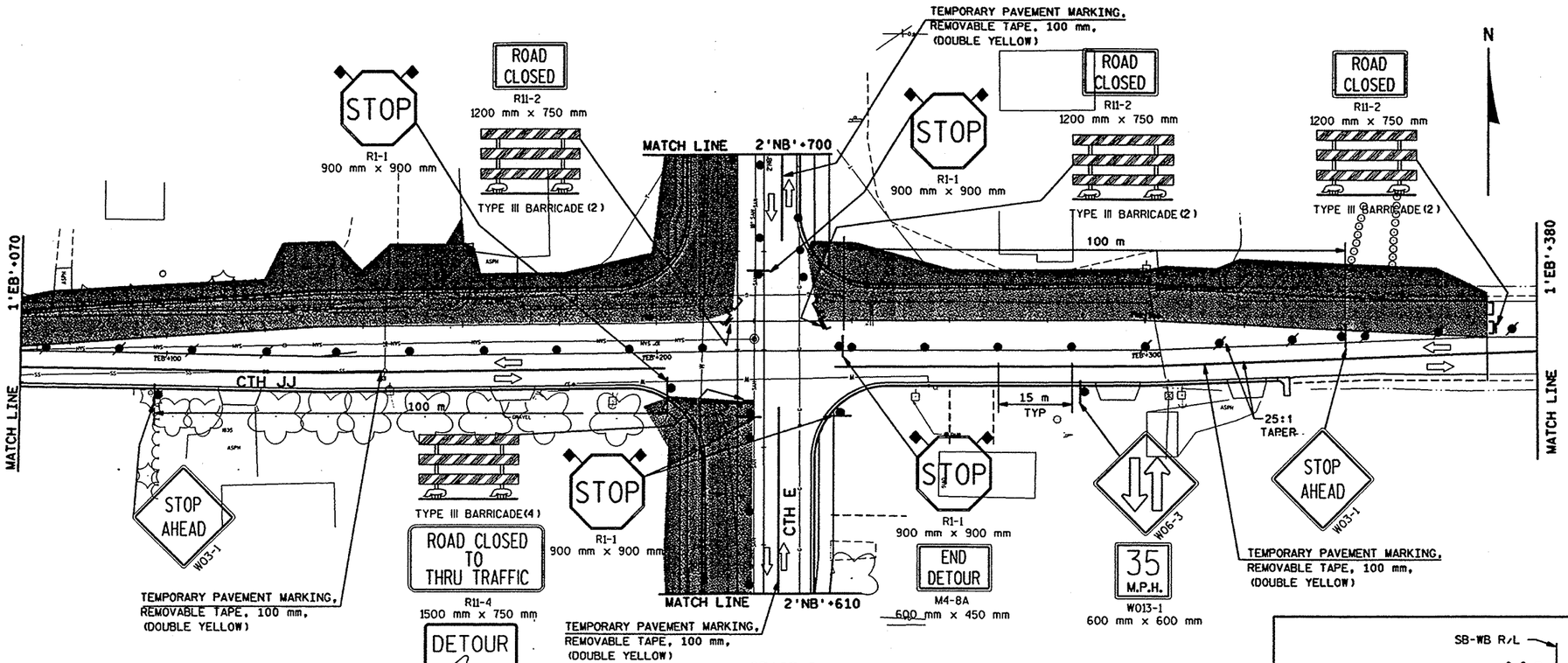
35 M.P.H.
W013-1
600 mm x 600 mm

1'EB'+070

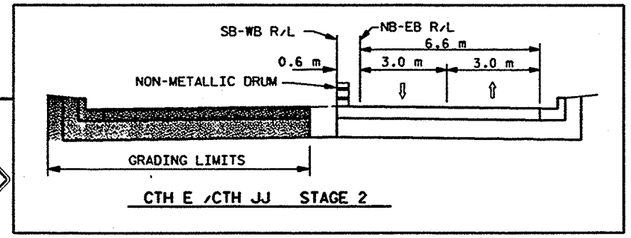
MATCH LINE

STAGE 2

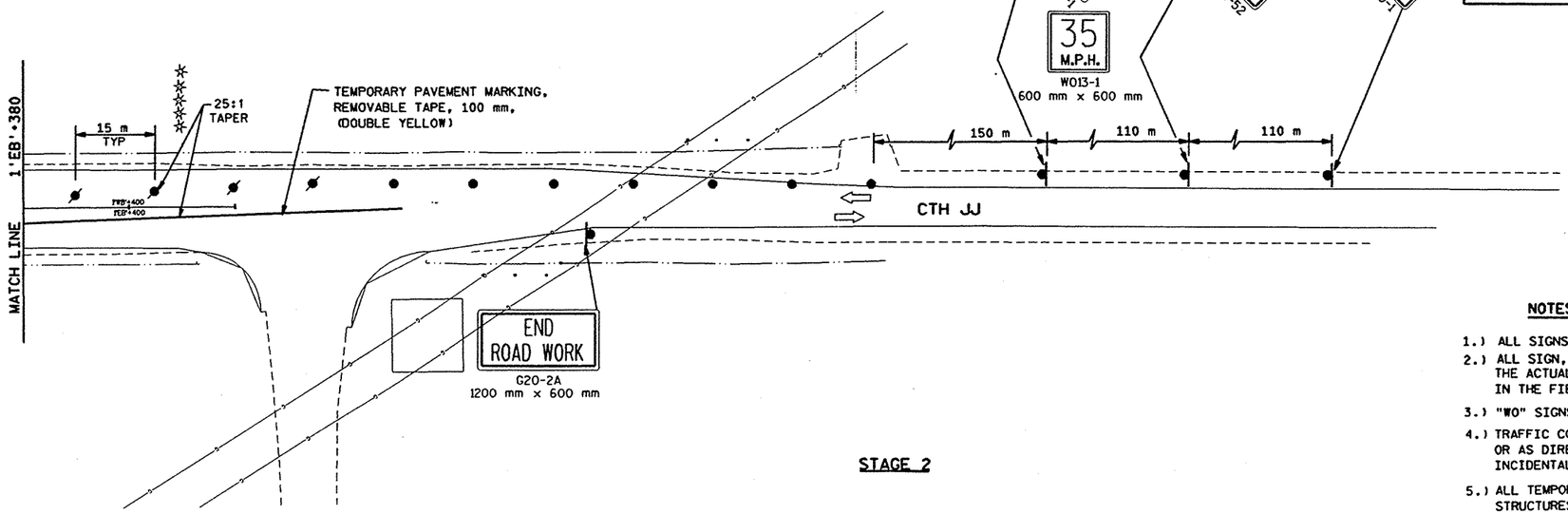
TRAFFIC CONTROL FOR CTH JJ	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.65 M



STAGE 2



CTH E /CTH JJ STAGE 2



STAGE 2

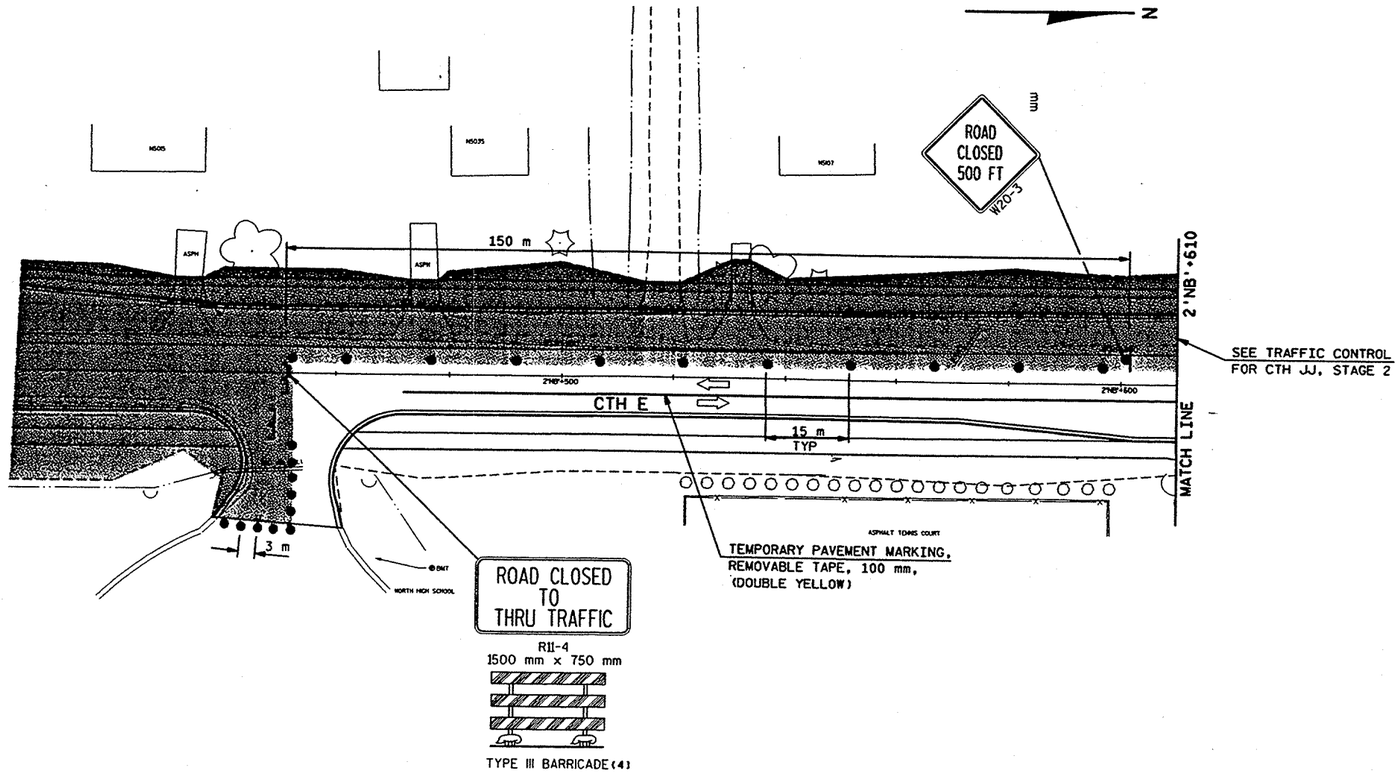
LEGEND

- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAG, 400 mm X 400 mm
- SIGN ON PERMANENT SUPPORT

NOTES FOR TRAFFIC CONTROL

1.) ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.
2.) ALL SIGN, DRUM AND BARRICADE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
3.) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
4.) TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING SIGNS SHALL BE INCIDENTAL TO TRAFFIC CONTROLS (L.S.).
5.) ALL TEMPORARY PAVEMENT MARKINGS CROSSING PERMANENT PAVEMENT OR STRUCTURES SHALL BE REMOVABLE TAPE.
6.) SIGNS THAT ARE IN PLACE LESS THAN SEVEN (7) CALENDAR DAYS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL FOR CTH JJ	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.66 M



STAGE 2

LEGEND

- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAG, 400 mm X 400 mm
- SIGN ON PERMANENT SUPPORT

NOTES FOR TRAFFIC CONTROL

1.) ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.
2.) ALL SIGN, DRUM AND BARRICADE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
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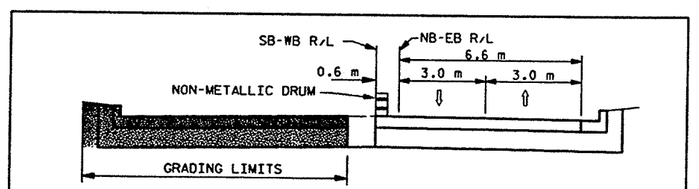
5.) ALL TEMPORARY PAVEMENT MARKINGS CROSSING PERMANENT PAVEMENT OR STRUCTURES SHALL BE REMOVABLE TAPE.
6.) SIGNS THAT ARE IN PLACE LESS THAN SEVEN (7) CALENDAR DAYS MAY BE MOUNTED ON PORTABLE SUPPORTS.

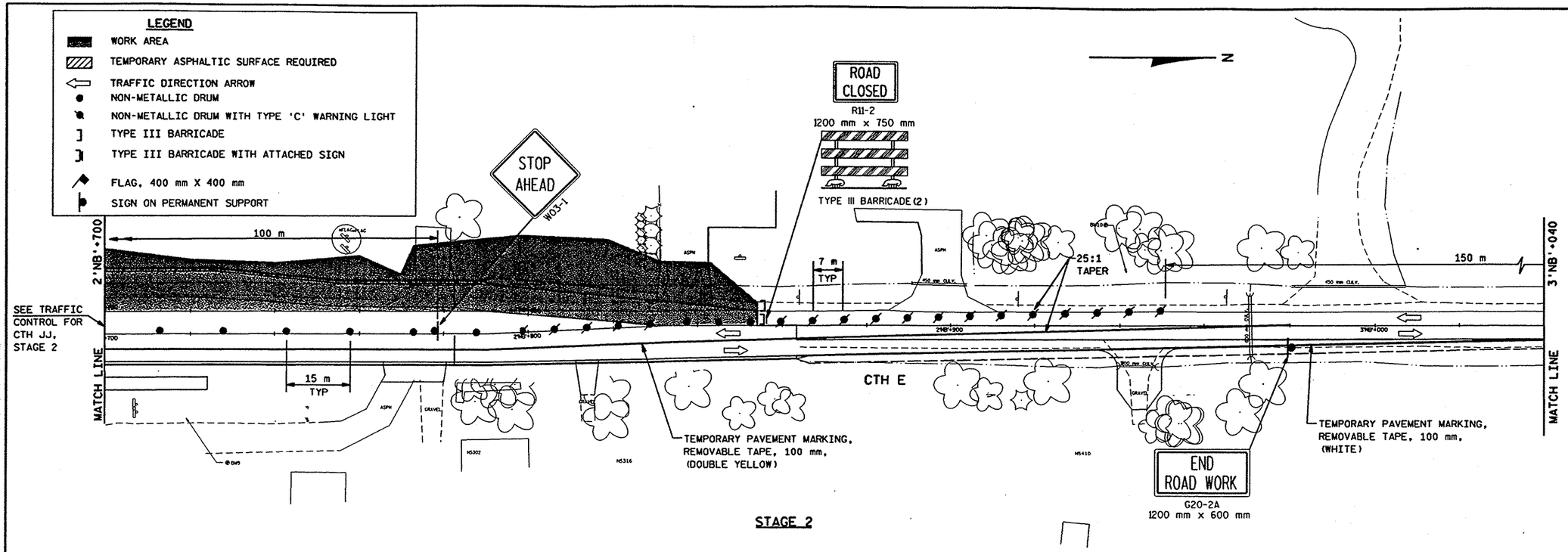


CTH E /CTH JJ STAGE 2

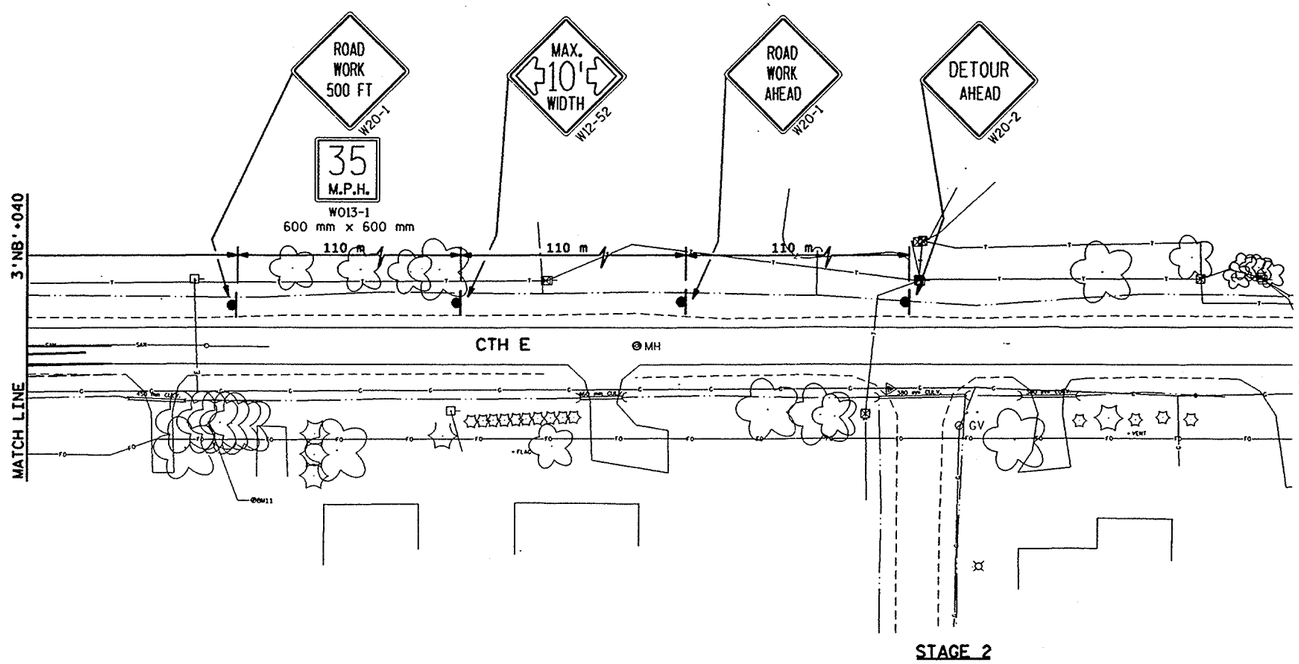
TRAFFIC CONTROL FOR CTH E (N. BALLARD RD) | 0 10 20 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-95 | SHEET NO: 2.67 | M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /TRAFFIC /TC08A .DGN TECH/ENGR: DPP/SDC
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,59,60,61,62.
PLOT DATE: 07/22/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
REV. DATE: / /



STAGE 2

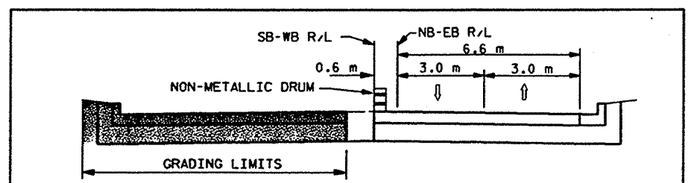


STAGE 2

N

NOTES FOR TRAFFIC CONTROL

1.) ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.
2.) ALL SIGN, DRUM AND BARRICADE LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
3.) "WO" SIGNS ARE THE SAME AS "W' SIGNS EXCEPT THE BACKGROUND IS ORANGE.
4.) TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER. THE COST FOR COVERING SIGNS SHALL BE INCIDENTAL TO TRAFFIC CONTROLS (L.S.).
5.) ALL TEMPORARY PAVEMENT MARKINGS CROSSING PERMANENT PAVEMENT OR STRUCTURES SHALL BE REMOVABLE TAPE.
6.) SIGNS THAT ARE IN PLACE LESS THAN SEVEN (7) CALENDAR DAYS MAY BE MOUNTED ON PORTABLE SUPPORTS.



CTH E /CTH JJ STAGE 2

TRAFFIC CONTROL FOR CTH E (N. BALLARD RD)	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.68 M

LEGEND

- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAG, 400 mm X 400 mm
- SIGN ON PERMANENT SUPPORT

NOTES FOR TRAFFIC CONTROL

1.) ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED.
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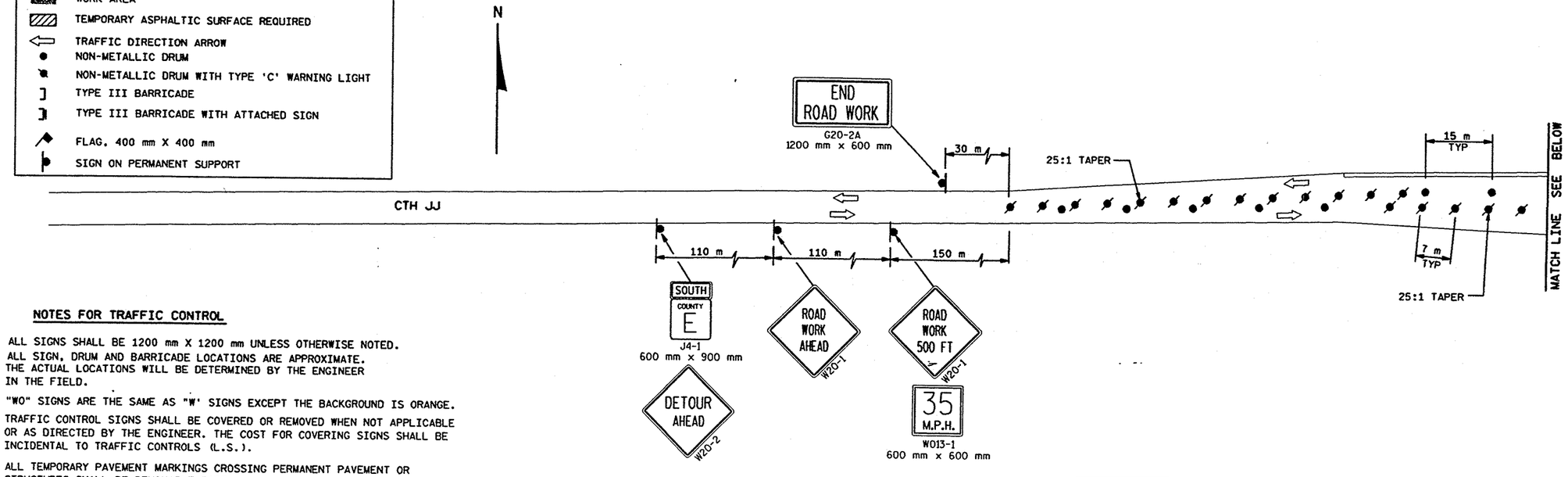
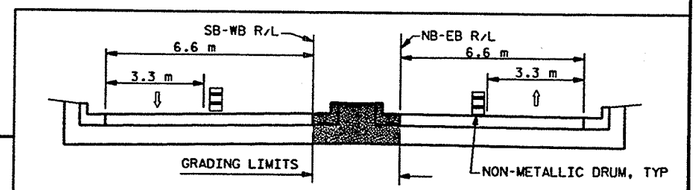
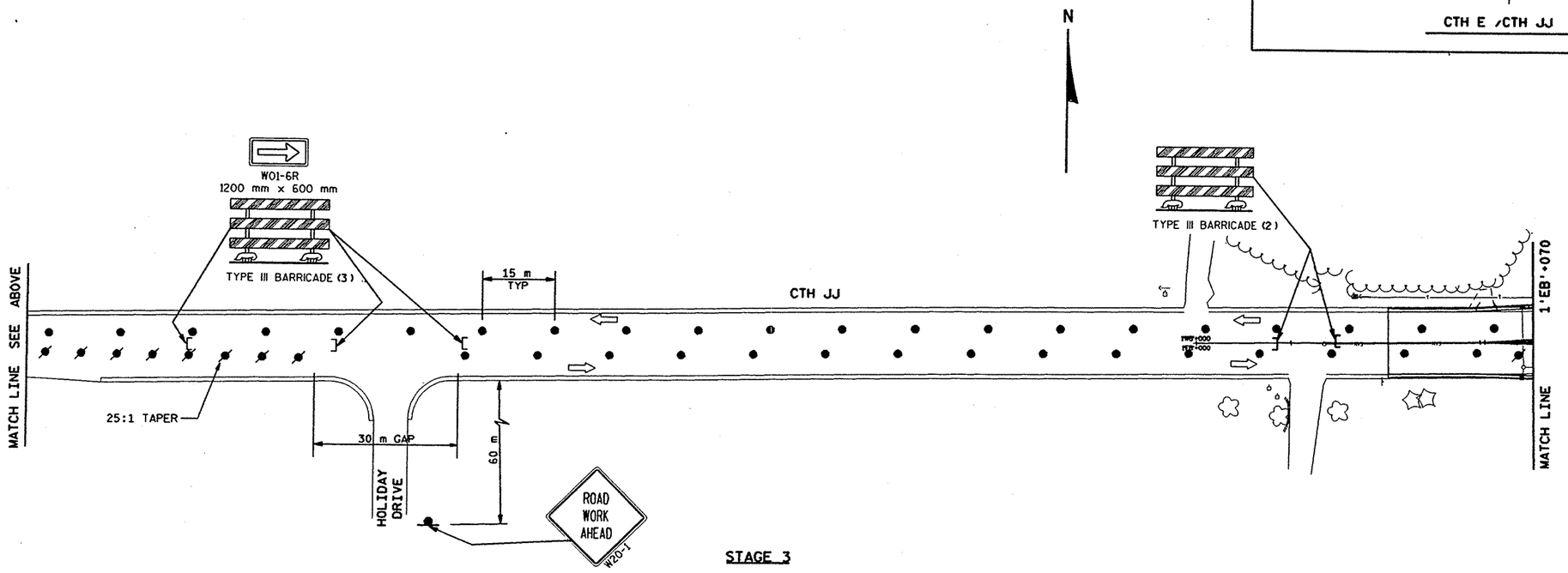


STAGE 3

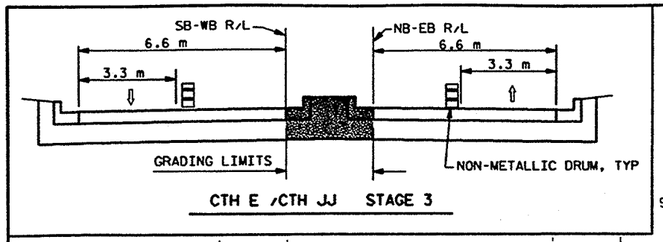


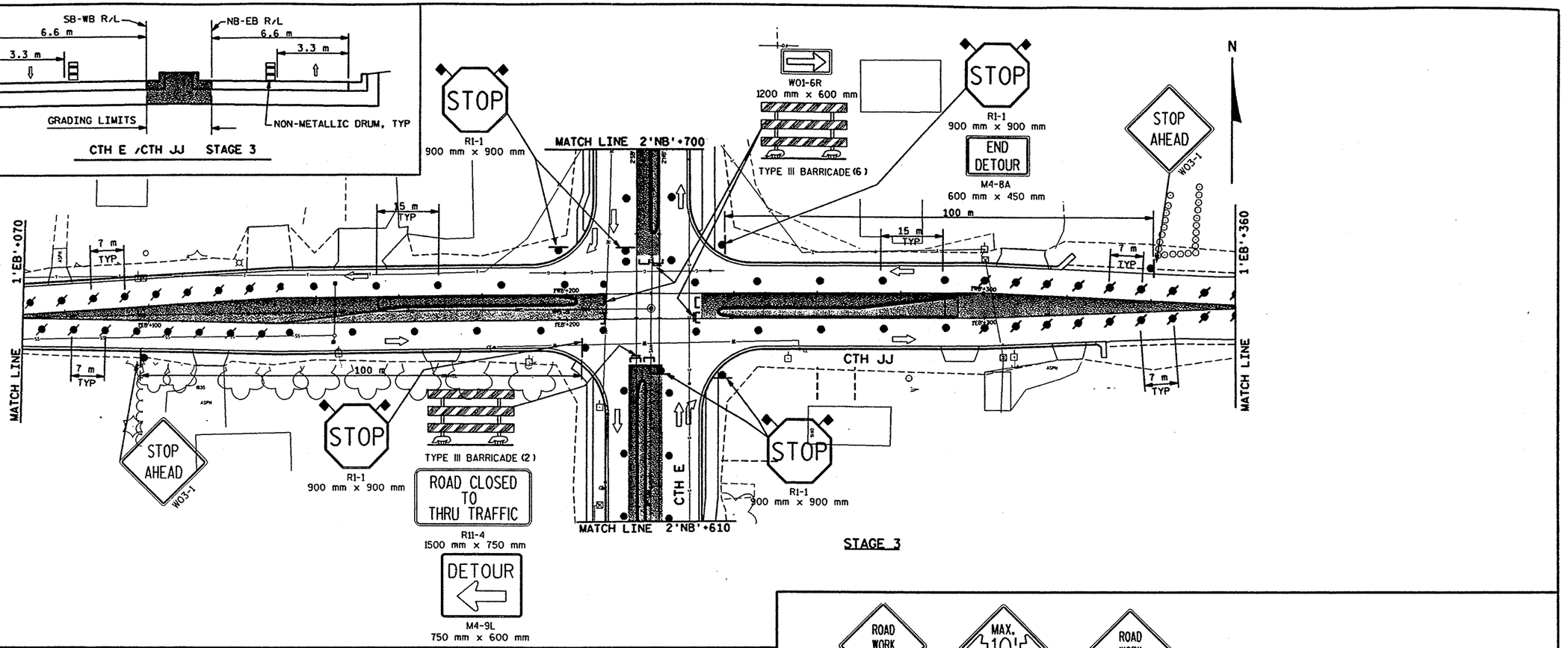
CTH E /CTH JJ STAGE 3



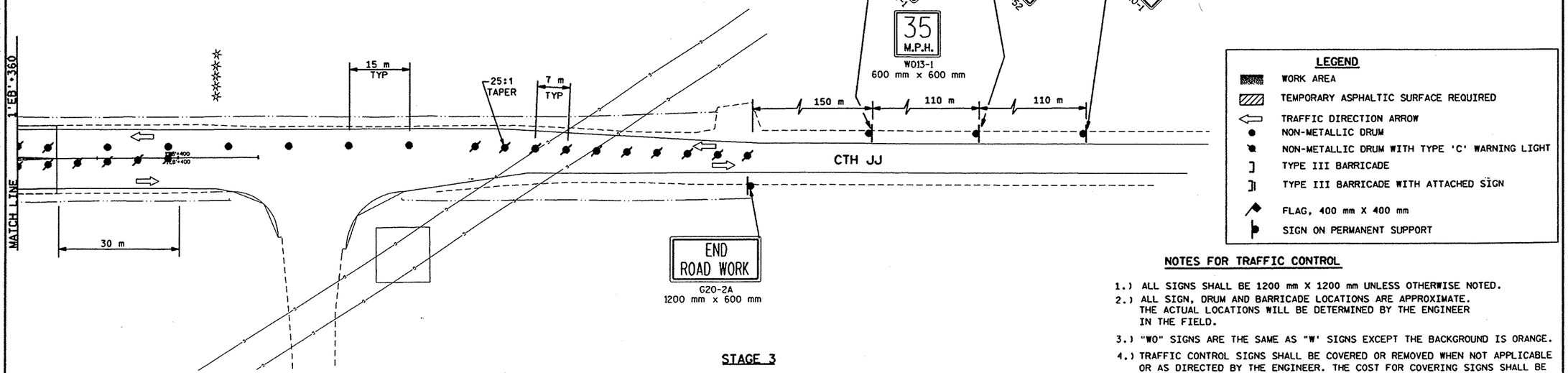
STAGE 3

TRAFFIC CONTROL FOR CTH JJ	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.69 M





STAGE 3



STAGE 3

LEGEND

- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
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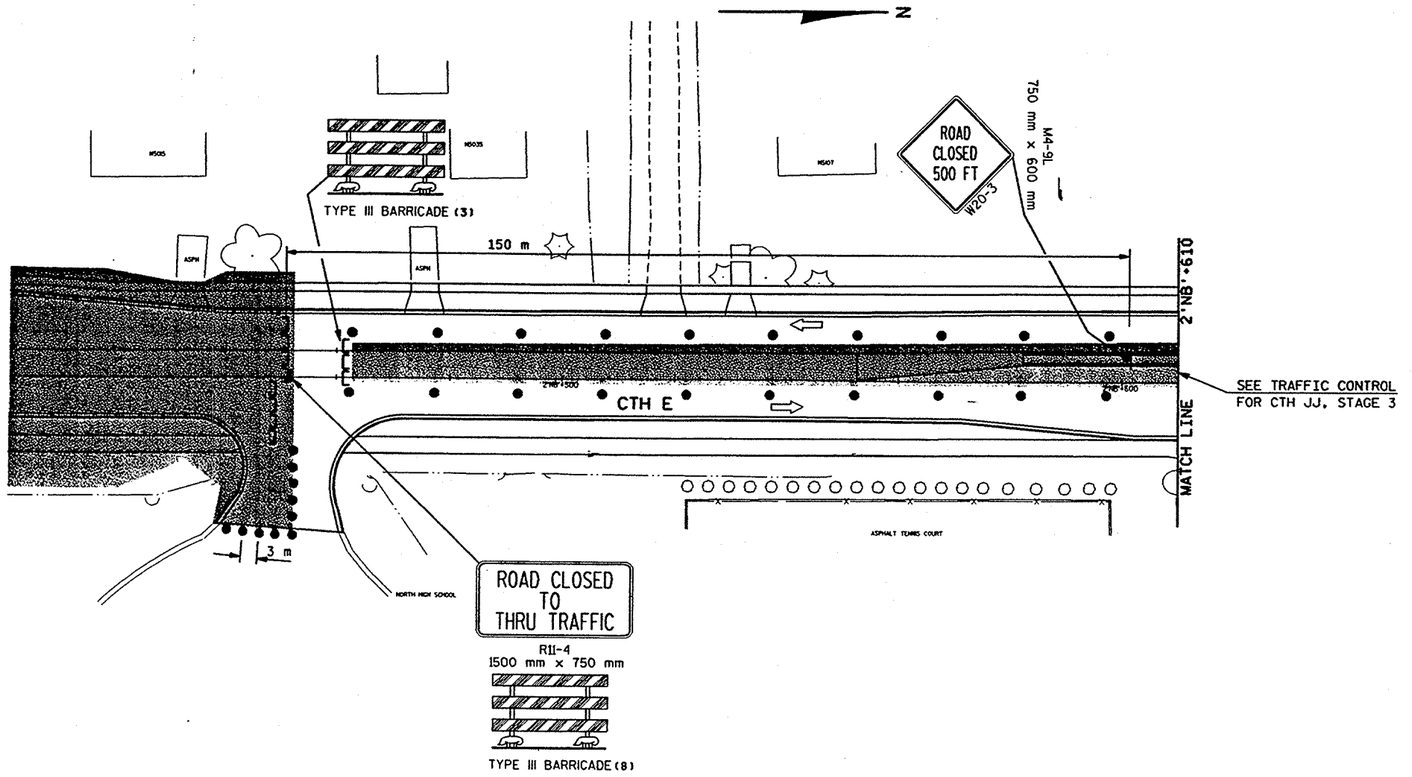
TRAFFIC CONTROL FOR CTH JJ	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.70 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /TRAFFIC /TC11 .DGN PLOT DATE: 07/22/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /99
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, 59,60,61,62,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



STAGE 3

LEGEND

- WORK AREA
- TEMPORARY ASPHALTIC SURFACE REQUIRED
- TRAFFIC DIRECTION ARROW
- NON-METALLIC DRUM
- NON-METALLIC DRUM WITH TYPE 'C' WARNING LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAG, 400 mm X 400 mm
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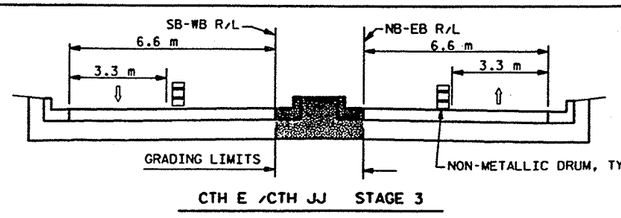
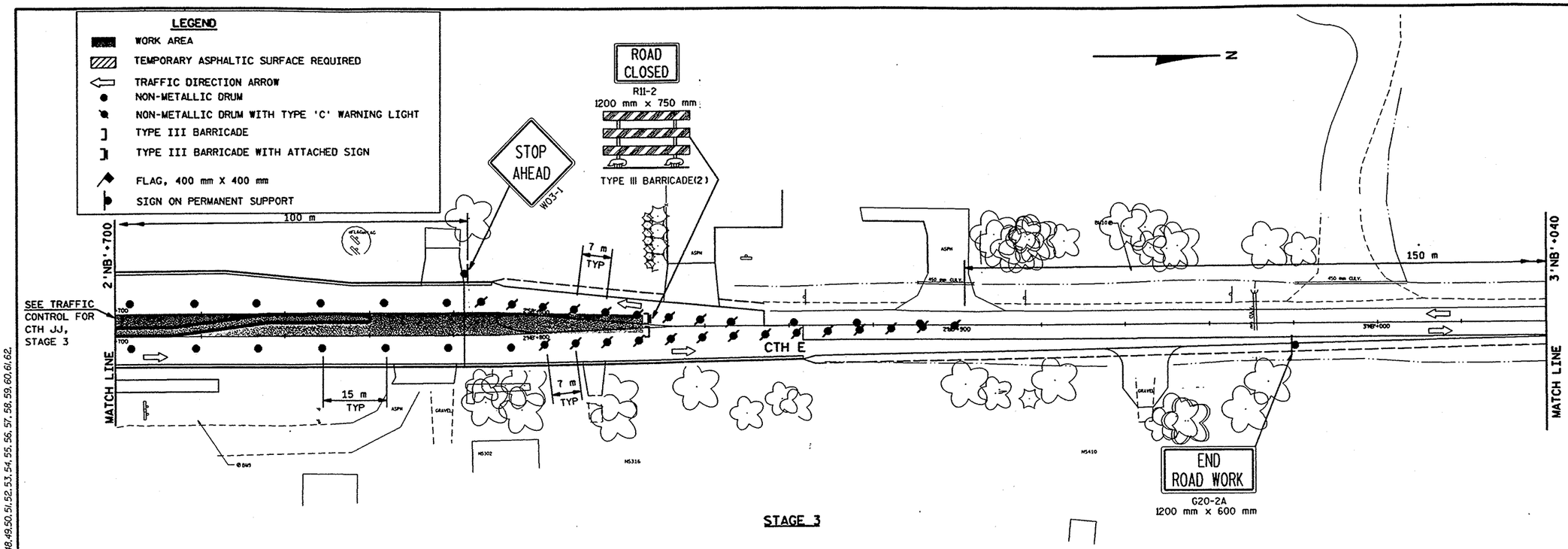
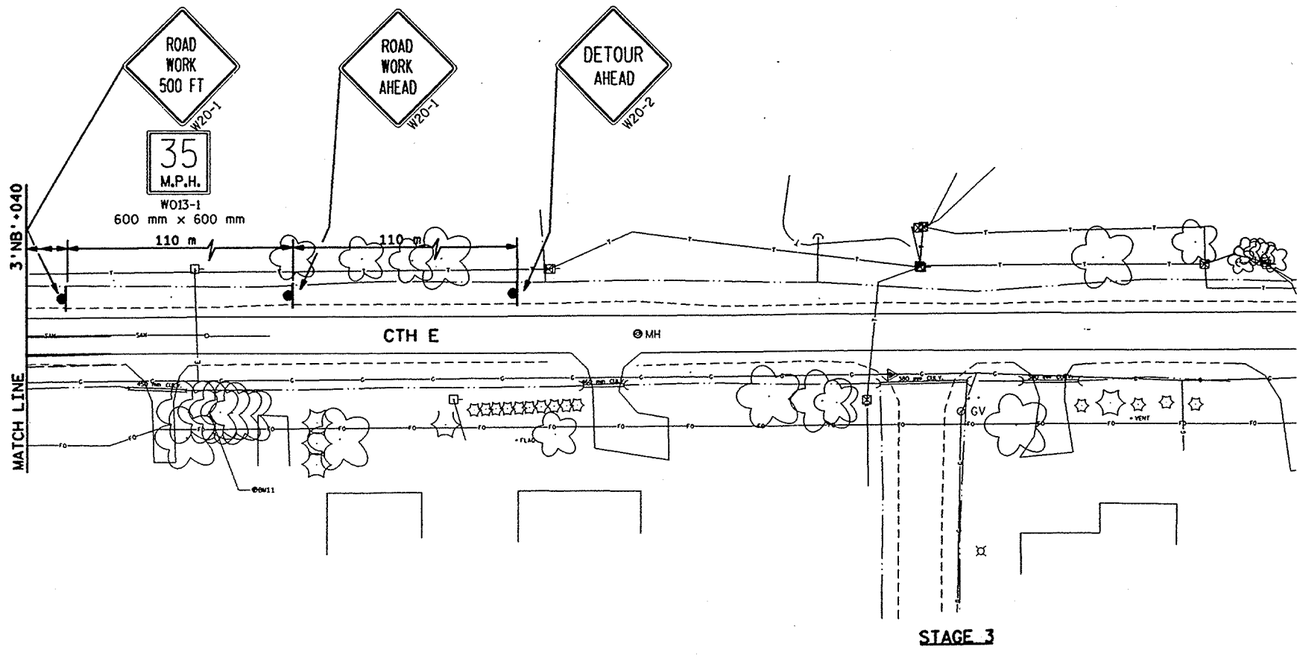


CTH E /CTH JJ STAGE 3

TRAFFIC CONTROL FOR CTH E (N. BALLARD RD)	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.71	M

FILE NAME: E1339498/SHEETS /TRAFFIC /TC1IA .DGN TECH/ENGR: DPP/SDC
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
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, 59,60,61,62.
PLOT DATE: 10/14/99
PLOT NAME: SEE FILE NAME
PLOT SCALE: 1:
PLOT DATE: / /





NOTES FOR TRAFFIC CONTROL

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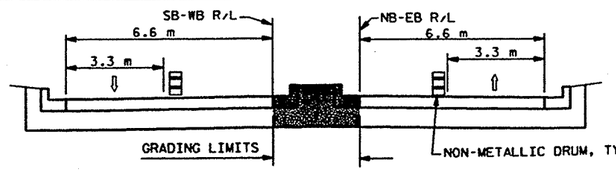
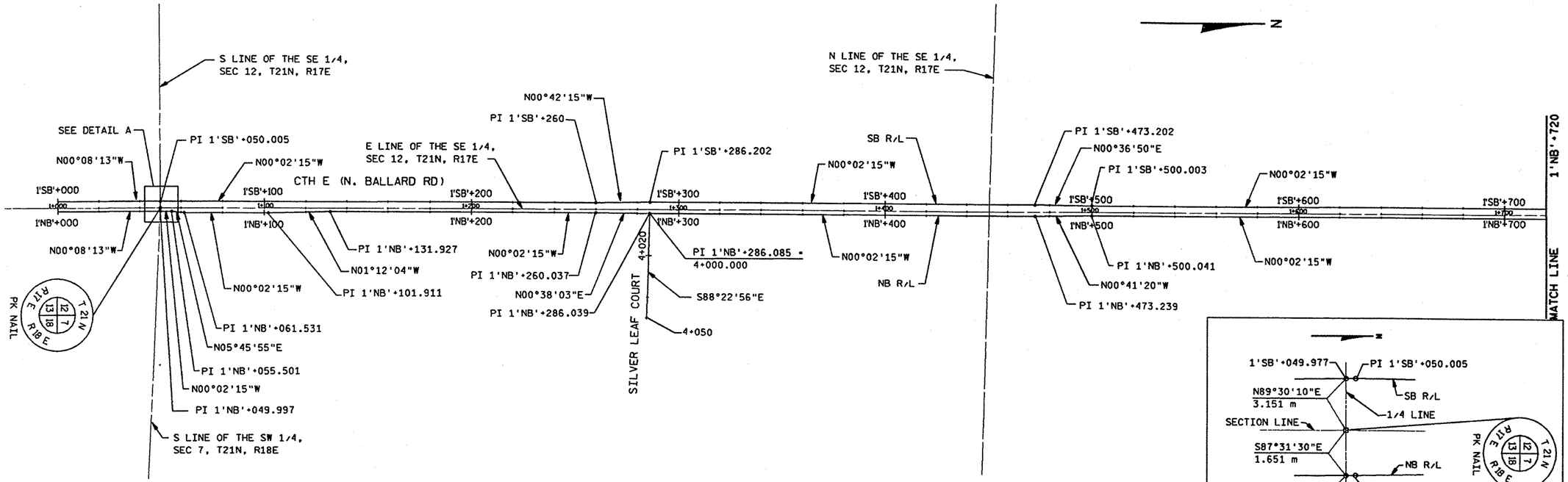


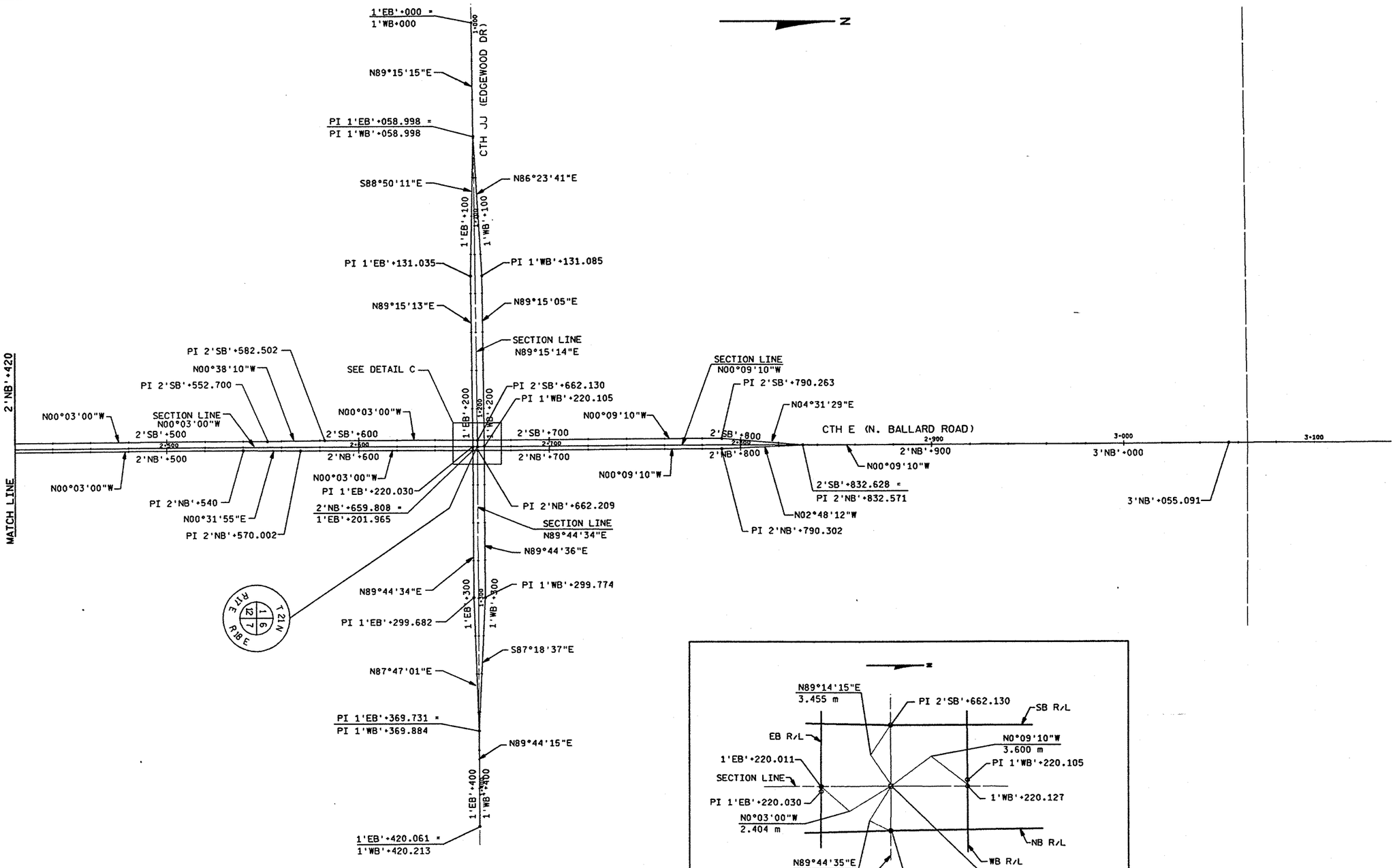
CTH E /CTH JJ STAGE 3

TRAFFIC CONTROL FOR CTH E (N. BALLARD RD)	0 10 20	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 2.72 M

WISDOT: MSHT40



ALIGNMENT PLAN FOR CTH E AND ASHBURY DRIVE	0 20 40	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.73 M



ALIGNMENT PLAN FOR CTH E AND CTH JJ	0 20 40	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97/95	SHEET NO: 2.74 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /APO2 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 08/20/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
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, 59,60,61,62.

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-95 QUANTITY	4984-00-97 QUANTITY
0010	20101	CLEARING	40M	24.00	5.00	19.00
0020	20102	CLEARING	25MM	51.00	11.00	40.00
0030	20104	GRUBBING	40M	24.00	5.00	19.00
0040	20105	GRUBBING	25MM	51.00	11.00	40.00
0050	20301	REMOVING OLD CULVERT, STATION 1'NB'+069	LS	1.00		1.00
0060	20330	REMOVING OLD CULVERTS	EACH	4.00	2.00	2.00
0070	20401	REMOVING PAVEMENT	M2	150.00		150.00
0080	20405	REMOVING CURB AND GUTTER	M	320.00	110.00	210.00
0090	20409	REMOVING SURFACE DRAINS	EACH	2.00		2.00
0100	20416	REMOVING INLETS	EACH	4.00	2.00	2.00
0110	20422	REMOVING CONCRETE BASES	EACH	9.00	9.00	
0120	20503	UNCLASSIFIED EXCAVATION	M3	36,100.00	11,150.00	24,950.00
0130	20620	EXCAVATION FOR STRUCTURES, CULVERTS C-44-84	LS	1.00		1.00
0140	20901	GRANULAR BACKFILL	M3	28.00		28.00
0150	21302	FINISHING ROADWAY, PROJECT 4984-00-95	LS	1.00	1.00	
0160	21303	FINISHING ROADWAY, PROJECT 4984-00-97	LS	1.00		1.00
0170	30404	CRUSHED AGGREGATE BASE COURSE	MG	25,100.00	9,655.00	15,445.00
0180	30418	CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NUMBER 1	MG	2,000.00	605.00	1,395.00
0190	30420	CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NUMBER 2	MG	9,700.00	2,285.00	7,415.00
0200	30426	BREAKER RUN STONE	MG	30,750.00	9,550.00	21,200.00
0210	40204	ASPHALTIC MATERIAL FOR TACK COAT	L	1,500.00	1,240.00	260.00
0220	40301	QMP, ASPHALTIC MIXTURE	MG	1,770.00	1,595.00	175.00
0230	40501	ASPHALTIC MATERIAL FOR PLANT MIXES	MG	110.00	98.00	12.00
0240	40713	ASPHALTIC CONCRETE PAVEMENT, TYPE MV	MG	1,770.00	1,595.00	175.00
0250	41105	ASPHALTIC SURFACE, DRIVEWAYS AND FIELD ENTRANCES	MG	130.00	116.00	14.00
0260	41106	ASPHALTIC SURFACE, TEMPORARY	MG	140.00	140.00	
0270	41507	CONCRETE PAVEMENT, 175 MM	M2	1,350.00		1,350.00
0280	41528	CONCRETE PAVEMENT, 215 MM	M2	30,320.00	6,840.00	23,480.00
0290	41538	H.E.S. CONCRETE PAVEMENT, 215 MM	M2	1,130.00	650.00	480.00
0300	41605	CONCRETE DRIVEWAY, 150 MM	M2	635.00	90.00	545.00
0310	41607	CONCRETE DRIVEWAY, 200 MM	M2	120.00	120.00	
0320	41653	PAVEMENT TIES	EACH	38.00		38.00
0330	41665	CONCRETE PAVEMENT GAPS	EACH	7.00	5.00	2.00

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-95 QUANTITY	4984-00-97 QUANTITY
0340	50250	CONCRETE MASONRY ANCHORS, TYPE L, NO. 15M BARS	EACH	41.00		41.00
0350	50401	CONCRETE MASONRY, CULVERTS	M3	23.00		23.00
0360	50505	HIGH STRENGTH BAR STEEL REINFORCEMENT, CULVERTS	KG	1,465.00		1,465.00
0370	51605	RUBBERIZED MEMBRANE WATERPROOFING	M2	20.00		20.00
0380	52001	CULVERT PIPE, CLASS III, 300 MM	M	20.00	20.00	
0390	52003	CULVERT PIPE, CLASS III, 450 MM	M	118.00	118.00	
0400	52005	CULVERT PIPE, CLASS III, 600 MM	M	18.00		18.00
0410	52059	APRON ENDWALLS FOR CULVERT PIPE, 300 MM	EACH	2.00	2.00	
0420	52061	APRON ENDWALLS FOR CULVERT PIPE, 450 MM	EACH	3.00	3.00	
0430	52063	APRON ENDWALLS FOR CULVERT PIPE, 600 MM	EACH	2.00		2.00
0440	52107	CORRUGATED STEEL CULVERT PIPE, 600 MM	M	4.50	4.50	
0450	52151	STEEL APRON ENDWALLS FOR CULVERT PIPE, 600 MM	EACH	1.00	1.00	
0460	52260	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 300 MM	EACH	1.00		1.00
0470	52262	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 450 MM	EACH	2.00		2.00
0480	52264	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 600 MM	EACH	2.00	1.00	1.00
0490	60119	CONCRETE CURB AND GUTTER, 450 MM, TYPE A	M	2,640.00	525.00	2,115.00
0500	60123	CONCRETE CURB AND GUTTER, 750 MM, TYPE A	M	4,010.00	795.00	3,215.00
0510	60133	CONCRETE CURB AND GUTTER, 750 MM, TYPE D	M	360.00	321.00	39.00
0520	60204	CONCRETE SIDEWALK, 100 MM	M2	8,720.00	980.00	7,740.00
0530	60602	HEAVY RIPRAP	M3	20.00		20.00
0540	60825	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 300 MM	M	506.00	133.00	373.00
0550	60826	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 375 MM	M	89.00		89.00
0560	60827	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 450 MM	M	161.00	64.00	97.00
0570	60828	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 525 MM	M	35.00		35.00
0580	60829	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 600 MM	M	56.00	26.00	30.00
0590	61110	MANHOLES, TYPE 1	EACH	5.00	3.00	2.00
0600	61122	INLETS, TYPE 3	EACH	85.00	25.00	60.00
0610	61123	INLETS, TYPE 8	EACH	11.00	3.00	8.00

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-95 QUANTITY	4984-00-97 QUANTITY
0620	61156	INLET COVERS, TYPE H-S	EACH	28.00	5.00	23.00
0630	61159	INLET COVERS, TYPE MS-A	EACH	11.00	3.00	8.00
0640	61167	INLET COVERS, TYPE H	EACH	62.00	23.00	39.00
0650	61182	ADJUSTING MANHOLE COVERS	EACH	20.00	8.00	12.00
0660	61201	PIPE UNDERDRAIN, 150 MM	M	4,220.00	1,135.00	3,085.00
0670	61610	CHAIN LINK FENCE, 1.2 M	M	13.00		13.00
0680	61910	MOBILIZATION	LS	1.00	0.50	0.50
0690	62001	CONCRETE CORRUGATED MEDIAN	M2	750.00	650.00	100.00
0700	62003	CONCRETE MEDIAN SLOPED NOSE	M2	42.00	17.50	24.50
0710	62101	LANDMARK REFERENCE MONUMENTS	EACH	10.00	4.00	6.00
0720	62111	LANDMARK REFERENCE MONUMENTS AND CAST IRON COVERS	EACH	2.00	1.00	1.00
0730	62203	ASPHALTIC FLUMES	M2	23.00	16.00	7.00
0740	62301	CALCIUM CHLORIDE SURFACE TREATMENT	MG	51.00	21.00	30.00
0750	62401	WATER	KL	570.00	235.00	335.00
0760	62501	TOPSOIL	M2	37,300.00	10,150.00	27,150.00
0770	62702	MULCHING	M2	25,700.00	9,640.00	16,060.00
0780	62815	SILT FENCE, DELIVERED	M	2,500.00	400.00	2,100.00
0790	62816	SILT FENCE, INSTALLED	M	2,500.00	400.00	2,100.00
0800	62817	SILT FENCE MAINTENANCE	M	5,000.00	800.00	4,200.00
0810	62819	MOBILIZATIONS, EROSION CONTROL	EACH	6.00	2.00	4.00
0820	62821	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	5.00	2.00	3.00
0830	62822	EROSION MAT, DELIVERED, CLASS I, TYPE A	M2	15.00	10.00	5.00
0840	62823	EROSION MAT, INSTALLED, CLASS I, TYPE A	M2	15.00	10.00	5.00
0850	62905	FERTILIZER, TYPE B	KG	1,310.00	360.00	950.00
0860	63008	SEEDING, MIXTURE NO. 10	KG	130.00	48.00	82.00
0870	63011	SEEDING, MIXTURE NO. 40	KG	260.00	95.00	165.00
0880	63101	SODDING	M2	11,740.00	560.00	11,180.00
0890	63103	WATERING SODDED AREAS	KL	600.00	30.00	570.00
0900	63403	WOOD POSTS, 100 X 100 MM X 4.3 M	EACH	39.00	12.00	27.00
0910	63404	WOOD POSTS, 100 X 100 MM X 4.9 M	EACH	18.00	7.00	11.00
0920	63702	SIGNS, TYPE II, REFLECTIVE	M2	40.50	19.32	21.18
0930	63822	MOVING SIGNS, TYPE II	EACH	2.00		2.00
0940	63827	REMOVING SIGNS, TYPE II	EACH	41.00	12.00	29.00

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-95 QUANTITY	4984-00-97 QUANTITY
0950	63830	REMOVING SMALL SIGN SUPPORTS	EACH	34.00	10.00	24.00
0960	64220	FIELD OFFICE, TYPE C	LS	1.00		1.00
0970	64302	TRAFFIC CONTROL, PROJECT 4984-00-95	LS	1.00	1.00	
0980	64303	TRAFFIC CONTROL, PROJECT 4984-00-97	LS	1.00		1.00
0990	64313	TRAFFIC CONTROL, DRUMS	DAYS	22,286.00	22,286.00	
1000	64318	TRAFFIC CONTROL, BARRICADES, TYPE III	DAYS	6,892.00	3,792.00	3,100.00
1010	64323	TRAFFIC CONTROL, WARNING LIGHTS, TYPE C	DAYS	8,795.00	8,795.00	
1020	64326	TRAFFIC CONTROL, SIGNS	DAYS	12,337.00	6,292.00	6,045.00
1030	64501	GEOTEXTILE FABRIC, TYPE SAS	M2	35,000.00	11,820.00	23,180.00
1040	64503	GEOTEXTILE FABRIC, TYPE DF	M2	12,300.00	3,340.00	8,960.00
1050	64506	GEOTEXTILE FABRIC, TYPE HR	M2	44.00		44.00
1060	64507	GEOTEXTILE FABRIC, TYPE C	M2	56.00		56.00
1070	64602	PAVEMENT MARKING, 100 MM, EPOXY	M	3,460.00	1,584.00	1,876.00
1080	64618	PAVEMENT MARKING, CHANNELIZING, 200 MM, EPOXY	M	620.00	278.00	342.00
1090	64642	REMOVING PAVEMENT MARKINGS	M	995.00	995.00	
1100	64710	PAVEMENT MARKING, STOP LINE, 450 MM, EPOXY	M	75.00	50.00	25.00
1110	64718	PAVEMENT MARKING, CROSSWALK, 150 MM, EPOXY	M	560.00	220.00	340.00
1120	64722	PAVEMENT MARKING, CROSSWALK, 300 MM, EPOXY	M	120.00		120.00
1130	64734	PAVEMENT MARKING, ARROWS, TYPE 2, EPOXY	EACH	36.00	14.00	22.00
1140	64758	PAVEMENT MARKING, WORDS, EPOXY	EACH	20.00	8.00	12.00
1150	64766	PAVEMENT MARKING, DIAGONAL, 200 MM, EPOXY	M	100.00	58.00	42.00
1160	64778	PAVEMENT MARKING, CURB, EPOXY	M	165.00	65.00	100.00
1170	64782	PAVEMENT MARKING, CURB RAMP, EPOXY	M	145.00	30.00	115.00
1180	64790	PAVEMENT MARKING, ISLAND NOSE, EPOXY	EACH	11.00	4.00	7.00
1190	64901	TEMPORARY PAVEMENT MARKING, 100 MM	M	1,990.00	1,990.00	
1200	64904	TEMPORARY PAVEMENT MARKING, 100 MM, REMOVABLE TAPE	M	3,880.00	3,880.00	
1210	65229	NONMETALLIC CONDUIT, SCHEDULE 80, 50 MM	M	28.00	28.00	
1220	65231	NONMETALLIC CONDUIT, SCHEDULE 80, 75 MM	M	292.00	116.00	176.00
1230	65232	NONMETALLIC CONDUIT, SCHEDULE 80, 100 MM	M	55.00	55.00	
1240	65250	LOOP DETECTOR CONDUIT	M	140.00	140.00	
1250	65311	PULL BOXES, STEEL, 600 X 1200 MM	EACH	23.00	12.00	11.00

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-95 QUANTITY	4984-00-97 QUANTITY
1260	65401	CONCRETE BASES, TYPE 1	EACH	5.00	5.00	
1270	65402	CONCRETE BASES, TYPE 2	EACH	8.00	8.00	
1280	65418	CONCRETE CONTROL CABINET BASES, TYPE 9	EACH	1.00	1.00	
1290	65425	PEDESTAL BASES	EACH	1.00	1.00	
1300	65430	TRANSFORMER BASES, STANDARD, 288 MM BOLT CIRCLE	EACH	4.00	4.00	
1310	65526	TRAFFIC SIGNAL CABLE, 7 CONDUCTOR, NO. 14	M	150.00	150.00	
1320	65532	TRAFFIC SIGNAL CABLE, 15 CONDUCTOR, NO. 14	M	650.00	650.00	
1330	65547	TYPE UF CABLE, 2 CONDUCTOR, NO. 10	M	465.00	465.00	
1340	65557	ELECTRICAL WIRE, TRAFFIC SIGNALS, NO. 10	M	620.00	620.00	
1350	65566	ELECTRICAL WIRE, LIGHTING, NO. 12	M	120.00	120.00	
1360	65580	LOOP DETECTOR LEAD IN CABLE	M	414.00	414.00	
1370	65585	LOOP DETECTOR WIRE	M	445.00	445.00	
1380	65702	POLES, TYPE 2	EACH	4.00	4.00	
1390	65720	TRAFFIC SIGNAL STANDARDS, STEEL, 2.7 M	EACH	1.00	1.00	
1400	65828	TRAFFIC SIGNAL FACES, 5-300 MM VERTICAL	EACH	8.00	8.00	
1410	65846	PEDESTRIAN SIGNAL FACES, 300 MM	EACH	8.00	8.00	
1420	65849	PEDESTRIAN PUSH BUTTONS	EACH	8.00	8.00	
1430	65850	TRAFFIC SIGNAL MOUNTING HARDWARE, CTH E & CTH JJ INTERSECTION	LS	1.00	1.00	
1440	66501	SAWING EXISTING PAVEMENT	M	420.00	317.00	103.00
1450	66502	SAWING CONCRETE PAVEMENT, FULL DEPTH	M	30.00		30.00
1460	90001	MISC 90001A, CONSTRUCTION STAKING, CONCRETE PAVEMENT, SPECIAL	M	4,050.00	916.00	3,134.00
1470	90001	MISC 90001B, CONSTRUCTION STAKING, CRUSHED AGRREGATE BASE COURSE, SPECIAL	M	691.00	613.00	78.00
1480	90001	MISC 90001C, CONSTRUCTION STAKING, CURB, GUTTER, AND CURB AND GUTTER, SPECIAL	M	360.00	321.00	39.00
1490	90001	MISC 90001D, CONSTRUCTION STAKING, SUBGRADE, SPECIAL	M	4,741.00	1,529.00	3,212.00
1500	90001	MISC 90001E, PRELIMINARY CONSTRUCTION STAKING	M	4,741.00	1,529.00	3,212.00
1510	90001	MISC 90001F, 150MM MINI STORM SEWER	M	51.00	51.00	
1520	90001	MISC 90001G, STORM SEWER PIPE, PVC-SDR35, 300MM	M	45.00	21.00	24.00
1530	90001	MISC 90001H, STORM SEWER PIPE, PVC-SDR35, 375MM	M	4.00		4.00

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-95 QUANTITY	4984-00-97 QUANTITY
1540	90001	MISC 90001J, STORM SEWER PIPE, PVC-SDR35, 450MM	M	6.00		6.00
1550	90002	MISC 90002A, SEALING JOINTS	M2	37,100.00	8,360.00	28,740.00
1560	90002	MISC 90002B, PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, EPOXY	M2	350.00	234.00	116.00
1570	90004	MISC 90004A, CONSTRUCTION STAKING, STRUCTURE C-44-84, SPECIAL	LS	1.00		1.00
1580	90004	MISC 90004B, SALVAGE EXISTING SIGNAL EQUIPMENT, CTH E AND CTH JJ INTERSECTION	LS	1.00	1.00	
1590	90005	MISC 90005A, CONSTRUCTION STAKING, STORM SEWER SYSTEM	EACH	100.00	32.00	68.00
1600	90005	MISC 90005B, ADJUSTING EXISTING PULL BOXES	EACH	2.00		2.00
1610	90005	MISC 90005C, CONSTRUCTION STAKING, PIPE CULVERTS, SPECIAL	EACH	3.00	2.00	1.00
1620	90005	MISC 90005D, ADJUSTING SANITARY SEWER MANHOLE COVERS, SPECIAL	EACH	10.00	3.00	7.00
1630	90005	MISC 90005E, EROSION CONTROL, FILTER BAGS, DELIVERED	EACH	1,100.00	330.00	770.00
1640	90005	MISC 90005F, EROSION CONTROL, FILTER BAGS, INSTALLED	EACH	1,100.00	330.00	770.00
1650	90005	MISC 90005G, EROSION CONTROL, FILTER BAGS, MAINTENANCE	EACH	2,200.00	660.00	1,540.00
1660	90005	MISC 90005H, INLET PROTECTION, TYPE C	EACH	77.00	28.00	49.00
1670	90005	MISC 90005J, RECONSTRUCTING SANITARY SEWER MANHOLES, SPECIAL	EACH	8.00	1.00	7.00
1680	90005	MISC 90005K, BACKPLATES, 3-SECTION, 300MM, SPECIAL	EACH	4.00	4.00	
1690	90365	QMP, BASE COURSES	MG	36,845.00	12,590.00	24,255.00
1700	90545	CONCRETE COLLAR	EACH	23.00	2.00	21.00
1710	90590	PIPE GRATES	EACH	4.00	2.00	2.00
1720	90998	ON-THE-JOB TRAINING, ASP-1T APPRENTICE AT $4.00/HOUR	HRS.	250.00		250.00
1730	90999	ON-THE-JOB TRAINING, ASP-1	HRS	1,000.00		1,000.00

CLEARING AND GRUBBING

STATION TO STATION	LOCATION	CLEARING 25mm	CLEARING 40m	GRUBBING 25mm	GRUBBING 40m
PROJECT ID 4984-00-97					
CATEGORY 010					
1'NB'+ 060-1'NB'+ 100. RT	CTH E	---	1	---	1
1'NB'+ 180-1'NB'+ 220. RT	CTH E	---	1	---	1
1'NB'+ 220-1'NB'+ 260. RT	CTH E	---	1	---	1
1'SB'+ 220-1'SB'+ 260. LT	CTH E	11	---	11	---
1'SB'+ 260-1'SB'+ 300. LT	CTH E	---	1	---	1
1'SB'+ 300-1'SB'+ 340. LT	CTH E	7	---	7	---
1'SB'+ 420-1'SB'+ 460. LT	CTH E	7	---	7	---
1'SB'+ 460-1'SB'+ 500. LT	CTH E	---	1	---	1
1'SB'+ 500-1'SB'+ 540. LT	CTH E	---	1	---	1
1'SB'+ 540-1'SB'+ 580. LT	CTH E	---	1	---	1
1'SB'+ 580-1'SB'+ 620. LT	CTH E	---	1	---	1
1'SB'+ 660-1'SB'+ 700. LT	CTH E	---	1	---	1
1'SB'+ 700-1'SB'+ 740. LT	CTH E	---	1	---	1
1'NB'+ 780-1'NB'+ 820. RT	CTH E	---	1	---	1
1'NB'+ 820-1'NB'+ 860. RT	CTH E	---	1	---	1
1'NB'+ 860-1'NB'+ 900. RT	CTH E	---	1	---	1
1'NB'+ 900-1'NB'+ 940. RT	CTH E	---	1	---	1
1'NB'+ 940-1'NB'+ 980. RT	CTH E	---	1	---	1
1'NB'+ 980-2'NB'+ 020. RT	CTH E	---	1	---	1
2'NB'+ 140-2'NB'+ 180. RT	CTH E	10	---	10	---
2'SB'+ 260-2'SB'+ 300. LT	CTH E	---	1	---	1
2'SB'+ 300-2'SB'+ 340. LT	CTH E	---	1	---	1
2'SB'+ 340-2'SB'+ 380. LT	CTH E	---	1	---	1
SUBTOTALS		35	19	35	19
PROJECT ID 4984-00-97					
CATEGORY 020					
2+ 080- 2+ 120. LT	ASHBURY DR	5	---	5	---
SUBTOTALS		5	0	5	0
PROJECT TOTALS		40	19	40	19
PROJECT ID 4984-00-95					
2'SB'+ 500-2'SB'+ 540. LT	CTH E	---	1	---	1
2'SB'+ 540-2'SB'+ 580. LT	CTH E	11	---	11	---
2'NB'+ 900-2'NB'+ 940. RT	CTH E	---	1	---	1
2'NB'+ 940-2'NB'+ 980. RT	CTH E	---	1	---	1
1'EB'+ 080-1'EB'+ 120. RT	CTH JJ	---	1	---	1
1'WB'+ 080-1'WB'+ 120. LT	CTH JJ	---	1	---	1
PROJECT TOTALS		11	5	11	5
TOTALS		51	24	51	24

REMOVING PAVEMENT

STATION TO STATION	LOCATION	sm
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1 'NB'+055.5 - 1 'NB'+061.63	CTH E	150

REMOVING CURB & GUTTER

STATION TO STATION	LOCATION	m
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1 'NB'+071.5 - 1 'NB'+156.5. MEDIAN	CTH E	170
1 'NB'+460. LT	CTH E	10
1 'NB'+485. LT	CTH E	10
2 'NB'+440. RT	CTH E	10
2 'NB'+460. RT	CTH E	10
PROJECT TOTAL		210
PROJECT I.D. 4984-00-95		
1 'EB'+040 - 1'EB'+145. RT	CTH JJ	55
1 'EB'+040 - 1'EB'+145. LT	CTH JJ	55
PROJECT TOTAL		110
TOTAL		320

REMOVING SURFACE DRAINS

STATION	LOCATION	EACH
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1 'NB'+460. LT	CTH E	1
1 'NB'+485. LT	CTH E	1
TOTAL		2

REMOVING INLETS

STATION	LOCATION	EACH
PROJECT I.D. 4984-00-97		
CATEGORY 010		
2+159. RT	ASHBURY	1
2+161. LT	ASHBURY	1
PROJECT TOTAL		2
PROJECT I.D. 4984-00-95		
1 'EB'+143. RT	CTH JJ	1
1 'EB'+143. LT	CTH JJ	1
PROJECT TOTAL		2
TOTAL		4

REMOVING OLD CULVERTS

STATION	LOCATION	DIA mm	LENGTH m	EACH	REMARKS
PROJECT I.D. 4984-00-97					
CATEGORY 010					
2NB+180. RT	CTH E	200	24	1	CORRUGATED STEEL
2NB+494. RT	CTH E	600	7	1	CORRUGATED STEEL
PROJECT TOTAL				2	
PROJECT I.D. 4984-00-95					
2NB+945. RT	CTH E	300	9	1	CORRUGATED STEEL
1WB+166. LT	CTH JJ	450	13	1	CORRUGATED STEEL
PROJECT TOTAL				2	
TOTAL				4	

REMOVING CONCRETE BASES

LOCATION	EACH
PROJECT I.D. 4984-00-95	
N.E. QUAD CTH E/CTH JJ	2
N.W. QUAD CTH E/CTH JJ	2
S.W. QUAD CTH E/CTH JJ	2
S.E. QUAD CTH E/CTH JJ	3
TOTAL	9

BREAKER RUN STONE

STATION TO STATION	LOCATION	Mg
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1 'NB'+055.5 - 1 'NB'+180	CTH E	1 750
1 'NB'+180 - 1 'NB'+360	CTH E	2 710
1 'NB'+360 - 1 'NB'+540	CTH E	2 710
1 'NB'+540 - 1 'NB'+720	CTH E	2 310
1 'NB'+720 - 1 'NB'+900	CTH E	2 310
1 'NB'+900 - 2 'NB'+080	CTH E	2 310
2 'NB'+080 - 2 'NB'+260	CTH E	2 990
2 'NB'+260 - 2 'NB'+440	CTH E	3 110
2 'NB'+440 - 2 'NB'+500	CTH E	1 000
PROJECT TOTAL		21 200
PROJECT I.D. 4984-00-95		
2 'NB' 500 - 2 'NB'+620	CTH E	2 000
2 'NB' 620 - 2 'NB'+800	CTH E	3 400
2 'NB' 800 - 2 'NB'+980	CTH E	1 965
2 'NB' 980 - 3 'NB'+023	CTH E	265
1 'EB' 040 - 1 'EB'+180	CTH JJ	980
1 'EB' 180 - 1 'EB'+360	CTH JJ	880
1 'EB' 360 - 1 'EB'+370	CTH JJ	60
PROJECT TOTAL		9 550
TOTAL		30 750

CRUSHED AGGREGATE BASE COURSE

STATION TO STATION	LOCATION	DENSE GRADED Mg	DENSE GRADED. SHOULDERS Mg	OPEN GRADED NO. 1 Mg	OPEN GRADED NO. 2 Mg	QUALITY MANAGEMENT PROGRAM Mg
PROJECT I.D. 4984-00-97						
CATEGORY 010						
1 'NB'+055.5 - 1 'NB'+180	CTH E	915	---	130	610	1 655
1 'NB'+055.5 - 1 'NB'+180	DRIVEWAYS	30	---	---	---	30
1 'NB'+055.5 - 1 'NB'+180	SIDEWALK	185	---	---	---	185
1 'NB'+180 - 1 'NB'+360	CTH E	1 360	---	190	945	2 495
1 'NB'+180 - 1 'NB'+360	DRIVEWAYS	30	---	---	---	30
1 'NB'+180 - 1 'NB'+360	SIDEWALK	235	---	---	---	235
1 'NB'+360 - 1 'NB'+540	CTH E	1 430	---	200	930	2 560
1 'NB'+360 - 1 'NB'+540	DRIVEWAYS	20	---	---	---	20
1 'NB'+360 - 1 'NB'+540	SIDEWALK	240	---	---	---	240
1 'NB'+540 - 1 'NB'+720	CTH E	1 220	---	160	810	2 190
1 'NB'+540 - 1 'NB'+720	DRIVEWAYS	40	---	---	---	40
1 'NB'+540 - 1 'NB'+720	SIDEWALK	250	---	---	---	250
1 'NB'+720 - 1 'NB'+900	CTH E	1 220	---	165	810	2 195
1 'NB'+720 - 1 'NB'+900	DRIVEWAYS	15	---	---	---	15
1 'NB'+720 - 1 'NB'+900	SIDEWALK	260	---	---	---	260
1 'NB'+900 - 2 'NB'+080	CTH E	1 220	---	165	810	2 195
1 'NB'+900 - 2 'NB'+080	DRIVEWAYS	40	---	---	---	40
1 'NB'+900 - 2 'NB'+080	SIDEWALK	245	---	---	---	245
2 'NB'+080 - 2 'NB'+260	CTH E	1 855	---	170	985	3 010
2 'NB'+080 - 2 'NB'+260	DRIVEWAYS	30	---	---	---	30
2 'NB'+080 - 2 'NB'+260	SIDEWALK	220	---	---	---	220
2 'NB'+260 - 2 'NB'+440	CTH E	1 450	---	170	935	2 555
2 'NB'+260 - 2 'NB'+440	SIDEWALK	250	---	---	---	250
2 'NB'+440 - 2 'NB'+500	CTH E	465	---	45	580	1 090
2 'NB'+440 - 2 'NB'+500	DRIVEWAYS	10	---	---	---	10
2 'NB'+440 - 2 'NB'+500	SIDEWALK	85	---	---	---	85
4+009.7 - 4+050	SILVER LEAF COURT	95	---	---	---	95
4+940.8 - 4+989.2	MEMORY LANE	405	---	---	---	405
SUBTOTALS		13 820	0	1 395	7 415	22 630
CATEGORY 020						
2+081.7 - 2+260	ASHBURY DRIVE	985	---	---	---	985
2+081.7 - 2+260	SIDEWALK	85	---	---	---	85
2+260 - 2+293.5	ASHBURY DRIVE	375	---	---	---	375
2+260 - 2+293.5	SIDEWALK	180	---	---	---	180
SUBTOTALS		1 625	0	0	0	1 625
PROJECT TOTALS		15 445	0	1 395	7 415	24 255
PROJECT I.D. 4984-00-95						
2 'NB'+500 - 2 'NB'+620	CTH E	1 180	---	165	350	1 695
2 'NB'+500 - 2 'NB'+620	DRIVEWAYS	20	---	---	---	20
2 'NB'+500 - 2 'NB'+620	SIDEWALK	150	---	---	---	150
2 'NB'+620 - 2 'NB'+800	CTH E	2 455	---	300	950	3 750
2 'NB'+620 - 2 'NB'+800	DRIVEWAYS	40	---	---	---	40
2 'NB'+620 - 2 'NB'+800	SIDEWALK	40	---	---	---	40
2 'NB'+800 - 2 'NB'+980	CTH E	1 570	300	105	445	2 420
2 'NB'+800 - 2 'NB'+980	DRIVEWAYS	60	---	---	---	60
2 'NB'+980 - 3 'NB'+055	CTH E	210	275	35	85	605
1 'EB'+040 - 1 'EB'+180	CTH JJ	1 535	---	---	55	1 590
1 'EB'+040 - 1 'EB'+180	DRIVEWAYS	85	---	---	---	85
1 'EB'+180 - 1 'EB'+360	CTH JJ	1 465	---	---	400	1 865
1 'EB'+180 - 1 'EB'+360	DRIVEWAYS	100	---	---	---	100
1 'EB'+180 - 1 'EB'+360	SIDEWALK	70	---	---	---	70
1 'EB'+360 - 1 'EB'+369.7	CTH JJ	100	---	---	---	100
PROJECT TOTALS		9 080	575	605	2 285	12 590
TOTALS		24 525	575	2 000	9 700	36 845
TOTAL DENSE GRADED = 25 100			TOTAL OPEN GRADED = 11 700			

YARDAGE SUMMARY

LOCATION	UNCLASSIFIED EXCAVATION cm	FILL cm	EXPANDED FILL (1.3) cm	WASTE (BORROW) cm
PROJECT I.D. 4984-00-97				
CATEGORY 010				
CTH E	23 590	12 526	16 283	7 307
SILVER LEAF COURT	183	0	0	183
MEMORY LANE	157	6	8	149
SUBTOTALS	23 930	12 532	16 291	7 639
CATEGORY 020				
ASHBURY DRIVE	1 020	654	850	170
PROJECT TOTALS	24 950	13 186	17 141	7 809
PROJECT I.D. 4984-00-95				
CTH E	7 350	1 127	1 465	5 885
CTH JJ	3 800	182	237	3 563
PROJECT TOTALS	11 150	1 309	1 702	9 448
TOTALS	36 100	14 493	18 841	17 259

FILE NAME: E1339A98/SHEETS /PLAN /M001 .2DG PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 TECH/ENGR: KRE/SDC PLOT DATE: 10/18/99
LEVELS ON 56.57, 59, 50.51, REV. DATE: 02/02/00
WISDOT: MSHT40

ASPHALTIC ITEMS

STATION TO STATION	LOCATION	ASPHALTIC CONCRETE PAV'T TYPE MV Mg	ASPHALTIC MATERIAL FOR PLANT MIX Mg	TACK COAT L	ASPHALTIC SURFACE TEMPORARY Mg	ASPHALTIC SURFACE DRIVEWAY& FIELD ENTRANCE Mg	QUALITY MANAGEMENT PROGRAM ASPHALTIC MIXTURE Mg
PROJECT I.D. 4984-00-97							
CATEGORY 010							
4+028.9 - 4+050	SILVER LEAF COURT	44	3	65	---	---	44
4+940.8 - 4+980.8	MEMORY LANE	80	5	115	---	---	80
2 'NB'+450. RT	DRIVEWAY	---	---	---	---	14	---
	SUBTOTALS	124	8	180	0	14	124
CATEGORY 020							
2+277 - 2+293.5	ASHBURY DRIVE	51	4	80	---	---	51
	PROJECT TOTALS	175	12	260	0	14	175
PROJECT I.D. 4984-00-95							
2 'NB'+782.6 - 3 'NB'+055	CTH E	775	48	610	---	---	775
2 'NB'+773. RT	DRIVEWAY	---	---	---	---	10	---
2 'SB'+780. LT	DRIVEWAY	---	---	---	---	12	---
2 'NB'+813. RT	DRIVEWAY	---	---	---	---	6	---
2 'SB'+835. LT	DRIVEWAY	---	---	---	---	20	---
1 'EB'+040 - 1 'EB'+140	CTH JJ	477	29	370	---	---	477
1 'EB'+300 - 1 'EB'+355.8	CTH JJ	343	21	260	---	---	343
1 'EB'+080. LT	DRIVEWAY	---	---	---	---	4	---
1 'EB'+120. RT	DRIVEWAY	---	---	---	---	5	---
1 'EB'+130. LT	DRIVEWAY	---	---	---	---	22	---
1 'EB'+151. LT	DRIVEWAY	---	---	---	---	28	---
1 'EB'+310. LT	DRIVEWAY	---	---	---	---	6	---
1 'EB'+320. RT	DRIVEWAY	---	---	---	---	3	---
2 'NB'+722 - 2 'NB'+945. LT	T.C. STAGE 1	---	---	---	140	---	---
	PROJECT TOTALS	1 595	98	1 240	140	116	1 595
	TOTALS	1 770	110	1 500	140	130	1 770

NON-REINFORCED CONCRETE PAVEMENT

STATION TO STATION	LOCATION	NON-DOWELED 175 mm sm	DOWELED 215 mm sm
PROJECT I.D. 4984-00-97			
CATEGORY 010			
1 'NB'+055.5 - 1 'NB'+180	CTH E	---	1 895
1 'NB'+180 - 1 'NB'+360	CTH E	---	2 615
1 'NB'+360 - 1 'NB'+540	CTH E	---	3 045
1 'NB'+540 - 1 'NB'+720	CTH E	---	2 380
1 'NB'+720 - 1 'NB'+900	CTH E	---	2 380
1 'NB'+900 - 2 'NB'+080	CTH E	---	2 380
2 'NB'+080 - 2 'NB'+260	CTH E	---	3 860
2 'NB'+260 - 2 'NB'+440	CTH E	---	3 515
2 'NB'+440 - 2 'NB'+500	CTH E	---	1 410
	SUBTOTALS	0	23 480
CATEGORY 020			
2+081.7 - 2+152.4	ASHBURY DRIVE	695	---
2+210 - 2+277.4	ASHBURY DRIVE	655	---
	SUBTOTALS	1 350	0
	PROJECT TOTALS	1 350	23 480
PROJECT I.D. 4984-00-95			
2 'NB'+500 - 2 'NB'+620	CTH E	---	2 100
2 'NB'+620 - 2 'NB'+782.6	CTH E	---	3 115
1 'EB'+140 - 1 'EB'+300	CTH JJ	---	1 625
	PROJECT TOTALS	0	6 840
	TOTALS	1 350	30 320

H.E.S. CONCRETE PAVEMENT, 215 mm

STATION TO STATION	LOCATION	sm
PROJECT I.D. 4984-00-95		
2 'NB'+620 - 2 'NB'+800	CTH E	385
2 'SB'+620 - 2 'NB'+800	CTH E	265
	PROJECT TOTAL	650
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1 'NB'+286	CTH E	240
1 'SB'+286	CTH E	240
	PROJECT TOTAL	480
	TOTAL	1 130

CONCRETE DRIVEWAY

STATION	LOCATION	150 mm sm	200 mm sm
PROJECT I.D. 4984-00-97			
CATEGORY 010			
1 'NB'+125. RT	CTH E	30	---
1 'NB'+180. RT	CTH E	41	---
1 'SB'+220. LT	CTH E	38	---
1 'NB'+230. RT	CTH E	32	---
1 'NB'+425. RT	CTH E	25	---
1 'SB'+517. LT	CTH E	20	---
1 'SB'+598. LT	CTH E	20	---
1 'SB'+639. LT	CTH E	18	---
1 'NB'+657. RT	CTH E	23	---
1 'SB'+670. LT	CTH E	16	---
1 'NB'+700. RT	CTH E	24	---
1 'NB'+882. RT	CTH E	23	---
1 'NB'+941. RT	CTH E	23	---
1 'NB'+974. RT	CTH E	27	---
2 'NB'+058. RT	CTH E	58	---
2 'SB'+060. LT	CTH E	37	---
2 'SB'+135. LT	CTH E	38	---
2 'SB'+475. LT	CTH E	27	---
	SUBTOTALS	520	0
CATEGORY 020			
2+110. RT	ASHBURY DRIVE	12	0
2+120. RT	ASHBURY DRIVE	13	0
	SUBTOTALS	25	0
	PROJECT TOTALS	545	0
PROJECT I.D. 4984-00-95			
2 'SB'+518. LT	CTH E	34	---
2 'SB'+532. LT	CTH E	20	---
2 'NB'+773. RT	CTH E	---	60
2 'SB'+778. LT	CTH E	---	45
1 'EB'+165. LT	CTH JJ	---	15
1 'EB'+169. RT	CTH JJ	16	---
1 'EB'+297. RT	CTH JJ	20	---
	PROJECT TOTAL	90	120
	TOTAL	635	120

CULVERT PIPE, CLASS III

STATION	LOCATION	300mm m	450mm m	600mm m	THICKNESS STEEL mm	THICKNESS ALUM mm	INVERT ELEVATION	DISCHARGE ELEVATION	APRON ENDWALLS FOR CULVERT PIPE 300mm EACH	450mm EACH	600mm EACH
PROJECT I.D. 4984-00-97											
CATEGORY 010											
2 'NB'+451.5. RT	CTH E	---	---	18	1.6	1.5	232.093	231.903	---	---	2
PROJECT I.D. 4984-00-95											
2 'NB'+837. LT 6.5° LHF	CTH E	---	23	---	1.6	1.5	235.432	235.082	---	2	---
2 'NB'+945. RT	CTH E	20	---	---	1.6	1.5	235.824	235.764	2	---	---
STORM SEWER SUMMARY TABLE		---	95	---					---	---	---
MANHOLE. INLET. AND COVERS TABLE		---	---	---					---	1	---
	PROJECT TOTALS	20	118	0					2	3	0
	TOTALS	20	118	18					2	3	2

CONCRETE PAVEMENT GAPS

STATION	LOCATION	EACH
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1 'NB'+286	CTH E	1
1 'SB'+286	CTH E	1
	PROJECT TOTAL	2
PROJECT I.D. 4984-00-95		
2 'NB'+670	CTH E. T.C. STAGE 1. PHASE 2	1
2 'SB'+670	CTH E. T.C. STAGE 1. PHASE 2	1
2 'NB'+770	CTH E. T.C. STAGE 1. PHASE 2	1
1 'WB'+220	CTH JJ. T.C. STAGE 2	1
2 'SB'+775	CTH E. T.C. STAGE 2	1
	PROJECT TOTAL	5
	TOTAL	7

CORRUGATED STEEL CULVERT PIPE, 600mm

STATION	LOCATION	m	THICKNESS STEEL mm	STEEL APRON ENDWALLS FOR CULVERT PIPE 600mm EACH
PROJECT I.D. 4984-00-95				
2 'NB'+971. RT	CTH E	4.5	1.6	1

PAVEMENT TIES

STATION	LOCATION	EACH
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1 'NB'+055.5	CTH E	38

MISCELLANEOUS QUANTITIES | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97/95 | SHEET NO: 3.B | M

FILE NAME: E1339A98/SHEETS /PLAN /MQ02 .2DG TECH/ENGR: KRE/SDC PLOT DATE: 10/18/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00
LEVELS ON • PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
50.5L 56.57. 59.

STORM SEWER SUMMARY

LOCATION FROM	TO	JOINT** TIES EACH	R.C.P., CLASS III 300mm m	375mm m	450mm m	525mm m	600mm m	CULVERT PIPE CLASS III 450mm m	PVC-SDR 35 300mm m	375mm m	450mm m	INLET ELEVATION	DISCHARGE ELEVATION
PROJECT I.D. 4984-00-97													
CATEGORY 010													
1	1A	---	1.0	---	---	---	---	---	---	---	---	227.880	227.865
2	2A	---	13.0	---	---	---	---	---	---	---	---	227.120	227.055
3	4	---	7.0	---	---	---	---	---	---	---	---	227.247	227.212
4	5	---	5.0	---	---	---	---	---	---	---	---	227.212	227.187
5	6	---	7.5	---	---	---	---	---	---	---	---	227.187	227.152
6	6A	---	---	---	---	---	---	---	3.0	---	---	227.152	227.120
7C	7B	---	---	28.0	---	---	---	---	---	---	---	227.404	227.152
7	7A	---	---	---	---	---	---	---	1.5	---	---	227.487	227.191
9	8	---	10.0	---	---	---	---	---	---	---	---	227.474	227.374
8	8A	---	17.5	---	---	---	---	---	---	---	---	227.374	227.264
10	10A	---	---	31.0	---	---	---	---	---	---	---	227.486	227.269
11	12	---	4.0	---	---	---	---	---	---	---	---	227.402	227.362
12	13	---	7.5	---	---	---	---	---	---	---	---	227.362	227.198
13	13A	---	---	---	---	---	---	---	3.5	---	---	227.198	227.181
18	14	---	2.0	---	---	---	---	---	---	---	---	227.470	227.465
14	15	---	7.5	---	---	---	---	---	---	---	---	227.465	227.446
15	16	---	2.5	---	---	---	---	---	---	---	---	227.446	227.439
16	17	---	10.5	---	---	---	---	---	---	---	---	227.439	227.400
17	17A	---	---	---	---	---	---	---	---	2.0	---	227.400	227.397
19	20	---	---	30.0	---	---	---	---	---	---	---	227.585	227.437
20	20A	---	---	---	---	---	---	---	---	2.0	---	227.437	227.427
21	22	---	---	---	4.0	---	---	---	---	---	---	227.551	227.501
22	23	---	---	---	11.5	---	---	---	---	---	---	227.501	227.386
23	24	---	---	---	5.0	---	---	---	---	---	---	227.386	227.336
24	25	---	---	---	7.0	---	---	---	---	---	---	227.336	227.266
25	25A	---	---	---	---	---	---	---	---	---	6.0	227.266	227.206
26	26A	---	---	---	---	30.0	---	---	---	---	---	227.665	227.494
27	29	---	2.0	---	---	---	---	---	---	---	---	228.015	228.005
29	30	---	7.5	---	---	---	---	---	---	---	---	227.995	227.942
30	31	---	4.5	---	---	---	---	---	---	---	---	227.932	227.900
31	32	---	7.5	---	---	---	---	---	---	---	---	227.890	227.837
28	32	---	2.0	---	---	---	---	---	---	---	---	227.827	227.802
32	32A	---	---	---	---	---	---	---	3.0	---	---	227.802	227.717
33	33A	4	---	---	---	---	30.0	---	---	---	---	227.791	227.626
34	34A	4	---	---	31.0	---	---	---	---	---	---	228.403	228.201
35	36	---	7.5	---	---	---	---	---	---	---	---	228.284	228.209
36	37	---	4.5	---	---	---	---	---	---	---	---	228.209	228.164
37	38	---	7.5	---	---	---	---	---	---	---	---	228.164	228.089
38	38A	---	---	---	---	---	---	---	4.0	---	---	228.089	227.884
39	39A	---	---	---	32.0	---	---	---	---	---	---	228.602	228.410
40	41	---	7.5	---	---	---	---	---	---	---	---	229.081	229.006
40A	40	---	2.0	---	---	---	---	---	---	---	---	229.101	229.081
41	42	---	4.5	---	---	---	---	---	---	---	---	229.006	228.961
42	43	---	7.5	---	---	---	---	---	---	---	---	228.961	228.886
43	43B	---	---	---	---	---	---	---	3.0	---	---	228.886	228.617
43A	43	---	2.0	---	---	---	---	---	---	---	---	228.906	228.886
44	44A	---	5.0	---	---	---	---	---	---	---	---	230.203	228.996
45	45A	---	7.5	---	---	---	---	---	---	---	---	230.086	229.003
48	48A	---	9.0	---	---	---	---	---	---	---	---	230.636	230.291
49	49A	---	10.0	---	---	---	---	---	---	---	---	230.642	230.597
55	54	---	2.0	---	---	---	---	---	---	---	---	230.701	230.681
54	52	---	16.5	---	---	---	---	---	---	---	---	230.681	230.516
52	53	---	2.0	---	---	---	---	---	---	---	---	230.516	230.496
53	53A	---	1.5	---	---	---	---	---	---	---	---	230.496	229.313
57	56	---	2.0	---	---	---	---	---	---	---	---	230.693	230.673
56	56A	---	---	---	---	---	---	---	5.0	---	---	230.673	229.363
55A	55	---	10.0	---	---	---	---	---	5.0	---	---	230.773	230.673
57A	57B	---	---	---	---	5.0	---	---	---	---	---	229.800	229.397
58	60	---	9.5	---	---	---	---	---	---	---	---	230.428	230.380
59	60	---	2.0	---	---	---	---	---	---	---	---	231.121	231.101
60	62A	---	14.0	---	---	---	---	---	---	---	---	230.370	230.230
61	62	---	2.0	---	---	---	---	---	---	---	---	231.121	231.101
62	62A	---	5.0	---	---	---	---	---	---	---	---	231.101	230.230
63	63A	---	23.5	---	---	---	---	---	---	---	---	230.210	229.975
64	65A	---	13.5	---	---	---	---	---	---	---	---	231.559	230.040
65	65A	---	4.5	---	---	---	---	---	---	---	---	231.559	230.040
66	67A	4	6.5	---	---	---	---	---	---	---	---	232.350	231.450
67	67A	4	---	---	6.5	---	---	---	---	---	---	232.426	231.476
68	68A	---	21.0	---	---	---	---	---	---	---	---	231.915	231.775
70	69	---	2.0	---	---	---	---	---	---	---	---	232.198	232.178
69	69A	---	14.0	---	---	---	---	---	---	---	---	232.178	230.333
71	71A	---	5.0	---	---	---	---	---	---	---	---	232.411	230.448
SUBTOTALS		16	349.5	89.0	97.0	35.0	30.0	0.0	23.0	4.0	6.0		

STORM SEWER SUMMARY (continued)

LOCATION FROM	TO	JOINT** TIES EACH	R.C.P., CLASS III 300mm m	375mm m	450mm m	525mm m	600mm m	CULVERT* PIPE CLASS III 450mm m	PVC-SDR 35 300mm m	375mm m	450mm m	INLET ELEVATION	DISCHARGE ELEVATION
CATEGORY 020													
46	47	---	11.0	---	---	---	---	---	---	---	---	230.464	229.842
47	47A	---	---	---	---	---	---	---	1.0	---	---	229.842	229.832
50	50A	---	4.0	---	---	---	---	---	---	---	---	230.133	229.514
51	50A	---	8.5	---	---	---	---	---	---	---	---	230.073	229.514
SUBTOTALS		0	23.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0		
PROJECT TOTALS		16	373.0	89.0	97.0	35.0	30.0	0.0	24.0	4.0	6.0		
PROJECT I.D. 4984-00-95													
72	73	---	2.0	---	---	---	---	---	---	---	---	232.656	232.636
73	74A	---	17.0	---	---	---	---	---	---	---	---	232.636	232.494
75	74	---	2.0	---	---	---	---	---	---	---	---	232.703	232.683
74	74A	---	5.0	---	---	---	---	---	---	---	---	232.683	232.615
76	77	---	---	---	10.0	---	---	---	---	---	---	232.913	232.813
77	78	---	---	---	8.0	---	---	---	---	---	---	232.813	232.738
77A	77	---	2.0	---	---	---	---	---	---	---	---	232.836	232.816
78	79	---	---	---	2.0	---	---	---	---	---	---	232.738	232.718
79	80B	---	---	---	5.0	---	---	---	---	---	---	232.718	232.668
80	80B	---	6.0	---	---	---	---	---	---	---	---	233.119	233.062
80A	80	---	2.0	---	---	---	---	---	---	---	---	233.139	233.119
81	81A	---	15.0	---	---	---	---	---	---	---	---	232.634	232.559
82	83	---	13.5	---	---	---	---	---	---	---	---	233.973	233.838
83	84	---	2.0	---	---	---	---	---	---	---	---	233.838	233.818
84	84A	---	1.5	---	---	---	---	---	---	---	---	233.818	233.090
120	85	---	---	---	---	---	---	---	14.0	---	---	233.193	233.123
85	84A	---	4.5	---	---	---	---	---	---	---	---	233.902	233.090
87	86	---	2.0	---	---	---	---	---	---	---	---	234.149	234.129
86	88A	---	---	---	17.0	---	---	---	---	---	---	233.236	233.151
89	88	---	2.0	---	---	---	---	---	---	---	---	234.000	233.990
88	88A	---	---	---	5.0	---	---	---	---	---	---	233.990	233.965
88B	88	---	---	---	---	---	---	---	7.0	---	---	234.032	233.990
90	90A	4	---	---	---	---	26.0	---	---	---	---	234.729	234.183
91	90A	---	---	---	---	---	---	95.0	---	---	---	235.492	233.944
110	110A	---	---	---	17.0	---	---	---	---	---	---	234.385	234.300
111	110A	---	6.0	---	---	---	---	---	---	---	---	234.827	234.797
112	113	---	15.0	---	---	---	---	---	---	---	---	233.873	233.798
113	114	---	2.5	---	---	---	---	---	---	---	---	233.788	233.776
114	115A	---	7.0	---	---	---	---	---	---	---	---	233.766	233.731
115	115A	---	5.0	---	---	---	---	---	---	---	---	233.700	233.675
116	117	---	10.5	---	---	---	---	---	---	---	---	233.625	233.520
117	118	---	2.5	---	---	---	---	---	---	---	---	233.520	233.495
118	118A	---	3.0	---	---	---	---	---	---	---	---	233.495	233.465
119	118A	---	5.0	---	---	---	---	---	---	---	---	233.469	233.419
PROJECT TOTALS		4	133.0	0.0	64.0	0.0	26.0	95.0	21.0	0.0	0.0		
TOTALS		20	506.0	89.0	161.0	35.0	56.0	95.0	45.0	4.0	6.0		

* SEE CULVERT PIPE, CLASS III TABLE FOR TOTAL

** NON-BID ITEM

MANHOLES, INLETS, AND COVERS (SHEET 1 OF 3)

STRUCTURE NO.	STATION	LOCATION	STRUCTURE	MANHOLE TYPE 1 EACH	INLET TYPE 3 EACH	INLET TYPE 8 EACH	INLET COVER TYPE H EACH	INLET COVER TYPE H-S EACH	INLET COVER TYPE MS-A EACH	TOP OF COVER ELEVATION	TOP OF STRUCTURE ELEVATION	INVERT ELEVATION	DEPTH m	REINFORCED CONCRETE APRON ENDWALLS 300mm EACH	REINFORCED CONCRETE APRON ENDWALLS 450mm EACH	REINFORCED CONCRETE APRON ENDWALLS 600mm EACH	APRON* ENDWALLS FOR CULVERT PIPE 450mm EACH	CONCRETE COLLAR EACH	PIPE GRATE 600mm EACH	REMARKS
PROJECT I.D. 4984-00-97																				
CATEGORY 010																				
1	1'NB'+072. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	229.396	229.021	227.880	1.141	---	---	---	---	---	---	NOTE B
1A	1'NB'+071. 7.05m RT	CTH E	EXIST BOX	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2	1'SB'+119. 1.44m RT	CTH E	INLET	---	1	---	1	---	---	229.144	228.769	227.120	1.649	---	---	---	---	---	---	NOTE B
2A	1'NB'+119. 10.3m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
3	1'SB'+170. 7.05m LT	CTH E	INLET	---	1	---	---	1	---	228.708	228.333	227.247	1.086	---	---	---	---	---	---	NOTE B
4	1'SB'+170. 0.15m RT	CTH E	INLET	---	1	---	---	1	---	228.840	228.465	227.212	1.253	---	---	---	---	---	---	NOTE B
5	1'NB'+170. 0.15m LT	CTH E	INLET	---	1	---	---	1	---	228.688	228.313	227.187	1.126	---	---	---	---	---	---	NOTE B
6	1'NB'+170. 7.05m RT	CTH E	INLET	---	1	---	---	1	---	228.556	228.181	227.152	1.029	---	---	---	---	---	---	NOTE B
6A	1'NB'+170. 10.3m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	
7	1'NB'+225. 7.58m RT	CTH E	INLET	---	1	---	1	---	---	228.807	228.432	227.487	0.945	---	---	---	---	---	---	NOTE B
7A	1'NB'+225. 10.3m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7B	1'NB'+219. 10.3m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
7C	1'SB'+219. 16.89m LT	CTH E	CAPPED PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	4+028. 4.88m RT	SILVER LEAF CT	INLET	---	1	---	---	1	---	228.764	228.389	227.404	---	---	---	---	---	---	---	NOTE B
8A	1'NB'+281. 10.3m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	227.374	1.015	---	---	---	---	---	---	---
9	4+028. 4.88m LT	SILVER LEAF CT	INLET	---	1	---	---	1	---	228.764	228.389	227.474	0.915	---	---	---	---	1	---	---
10	1'SB'+310. 14.0m LT	CTH E	INLET	---	---	1	---	---	1	228.569	228.569	227.486	1.083	---	---	---	---	---	---	NOTE B
10A	1'NB'+310. 10.3m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
11	1'SB'+350. 1.62m RT	CTH E	INLET	---	1	---	1	---	---	228.817	228.442	227.402	1.040	---	---	---	---	---	---	NOTE B
12	1'NB'+350. 0.15m LT	CTH E	INLET	---	1	---	---	1	---	228.811	228.436	227.362	1.074	---	---	---	---	---	---	NOTE B
13	1'NB'+350. 7.05m RT	CTH E	INLET	---	1	---	---	1	---	228.613	228.238	227.198	1.040	---	---	---	---	---	---	NOTE B
13A	1'NB'+348.5. 10.3m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	1'SB'+380. 7.05m LT	CTH E	INLET	---	1	---	---	1	---	228.578	228.203	227.465	0.738	---	---	---	---	---	---	NOTE B
15	1'SB'+380. 0.15m RT	CTH E	INLET	---	1	---	---	1	---	228.710	228.335	227.446	0.889	---	---	---	---	---	---	NOTE B
16	1'NB'+380. 3.02m LT	CTH E	INLET	---	1	---	1	---	---	228.917	228.542	227.439	1.103	---	---	---	---	---	---	NOTE B
17	1'NB'+380. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	228.749	228.374	227.400	0.974	---	---	---	---	---	---	NOTE B
17A	1'NB'+380. 10.3m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
18	1'SB'+382. 7.05m LT	CTH E	INLET	---	1	---	---	1	---	228.596	228.221	227.470	0.751	---	---	---	---	---	---	NOTE B
19	1'SB'+440. 13.3m LT	CTH E	INLET	---	---	1	---	---	1	228.800	228.800	227.585	1.215	---	---	---	---	---	---	---
20	1'NB'+440. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	229.053	228.678	227.437	1.241	---	---	---	---	---	---	NOTE B
20A	1'NB'+440. 10.3m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
22	1'SB'+490.9.10.05m LT	CTH E	INLET	---	1	---	1	---	---	229.174	228.799	227.501	1.298	---	---	---	---	---	---	NOTE B
23	1'SB'+496. 0.15m RT	CTH E	INLET	---	1	---	1	---	---	229.400	229.025	227.386	1.639	---	---	---	---	---	---	NOTE B
24	1'NB'+496. 0.15m LT	CTH E	INLET	---	1	---	1	---	---	229.470	229.095	227.336	1.759	---	---	---	---	---	---	NOTE B
25	1'NB'+496. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	229.338	228.963	227.266	1.697	---	---	---	---	---	---	---
25A	1'NB'+495. 10.3m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26	1'SB'+540. 15.7m LT	CTH E	INLET	---	---	1	---	---	1	229.116	229.116	227.665	1.451	---	---	---	---	---	---	---
26A	1'NB'+540. 10.3m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
27	1'SB'+648. 7.05m LT	CTH E	INLET	---	1	---	1	---	---	229.281	228.906	228.015	0.891	---	---	---	---	---	---	NOTE B
28	1'NB'+648. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	229.281	228.906	227.827	1.079	---	---	---	---	---	---	---
29	1'SB'+650. 7.05m LT	CTH E	INLET	---	1	---	---	1	---	229.268	228.896	227.995	0.898	---	---	---	---	---	---	NOTE B
30	1'SB'+650. 0.15m RT	CTH E	INLET	---	1	---	---	1	---	229.400	229.025	227.932	1.093	---	---	---	---	---	---	NOTE B
31	1'NB'+650. 0.15m LT	CTH E	INLET	---	1	---	---	1	---	229.400	229.025	227.890	1.135	---	---	---	---	---	---	NOTE B
32	1'NB'+650. 7.05m RT	CTH E	INLET	---	1	---	---	1	---	229.268	228.893	227.802	1.091	---	---	---	---	---	---	NOTE B
32A	1'NB'+650. 10.3m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33	1'SB'+746.5. 15.2m LT	CTH E	ENDWALL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33A	1'NB'+746.5. 10.3m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	227.791	---	---	---	---	1	---	---	NOTE B
34	1'SB'+840. 16.2m LT	CTH E	ENDWALL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34A	1'NB'+840. 10.3m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	228.650	---	---	1	---	---	---	1	NOTE B
35	1'SB'+880. 7.05m LT	CTH E	INLET	---	1	---	---	1	---	229.699	229.324	228.284	1.040	---	---	---	---	---	---	---
36	1'SB'+880. 0.15m RT	CTH E	INLET	---	1	---	---	1	---	229.831	229.456	228.209	1.247	---	---	---	---	---	---	NOTE B
37	1'NB'+880. 0.15m LT	CTH E	INLET	---	1	---	---	1	---	229.791	229.416	228.164	1.252	---	---	---	---	---	---	NOTE B
38	1'NB'+880. 7.05m RT	CTH E	INLET	---	1	---	---	1	---	229.659	229.284	228.089	1.195	---	---	---	---	---	---	NOTE B
38A	1'NB'+880. 10.3m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39	1'SB'+920. 17.6m LT	CTH E	INLET	---	---	1	---	---	1	229.100	229.100	228.602	0.498	---	---	---	---	---	---	---
39A	1'NB'+920. 10.3m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
40	1'SB'+980. 7.05m LT	CTH E	INLET	---	1	---	1	---	---	230.496	230.121	229.081	1.040	---	---	---	---	---	---	NOTE B
40A	1'SB'+982. 7.05m LT	CTH E	INLET	---	1	---	1	---	---	230.513	230.138	229.101	1.037	---	---	---	---	---	---	NOTE B
41	1'SB'+980. 0.15m RT	CTH E	INLET	---	1	---	1	---	---	230.628	230.253	229.006	1.247	---	---	---	---	---	---	NOTE B
42	1'NB'+980. 0.15m LT	CTH E	INLET	---	1	---	1	---	---	230.604	230.229	228.961	1.268	---	---	---	---	---	---	NOTE B

NOTE: A) TOP OF STRUCTURE ELEVATION IS TOP OF COVER MINUS CONCRETE PAVEMENT MINUS OGBC #2 MINUS CABC = 0.465m
B) TOP OF STRUCTURE ELEVATION IS TOP OF COVER MINUS CONCRETE PAVEMENT MINUS OGBC #2 MINUS 60mm = 0.375m
C) TOP OF STRUCTURE ELEVATION IS TOP OF COVER MINUS CONCRETE PAVEMENT MINUS 75mm = 0.250m
D) CONCRETE FLAT TOP SLAB WITH INLET SIZE OPENING REQUIRED.
E) TOP OF COVER ELEVATION IS FLANGE ELEVATION.
F) PLUGGING OR CAPPING END OF PIPE CONSIDERED INCIDENTAL TO COST OF REINFORCED CONCRETE PIPE.

* SEE CULVERT PIPE, CLASS III TABLE FOR TOTAL

(continued on next page)

MANHOLES, INLETS, AND COVERS (SHEET 2 OF 3)

STRUCTURE NO.	STATION	LOCATION	STRUCTURE	MANHOLE TYPE 1 EACH	INLET TYPE 3 EACH	INLET TYPE 8 EACH	INLET COVER TYPE H EACH	INLET COVER TYPE H-S EACH	INLET COVER TYPE MS-A EACH	TOP OF COVER ELEVATION	TOP OF STRUCTURE ELEVATION	INVERT ELEVATION	DEPTH m	REINFORCED CONCRETE APRON ENDWALLS 300mm EACH	450mm EACH	600mm EACH	APRON* ENDWALLS FOR CULVERT PIPE 450mm EACH	CONCRETE COLLAR EACH	PIPE GRATE 600mm EACH	REMARKS
PROJECT I.D. 4984-00-97																				
CATEGORY 010																				
43	1'NB'+980. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	230.472	230.097	228.886	1.211	---	---	---	---	---	---	NOTE B
43A	1'NB'+982. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	230.489	230.114	228.906	1.208	---	---	---	---	---	---	NOTE B
43B	1'NB'+980. 10.3m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
44	2'NB'+105.7. 3.05m LT	CTH E	MANHOLE	1	---	---	1	---	---	231.618	231.158	230.203	0.955	---	---	---	---	---	---	NOTE A. D
44A	2'NB'+105.7. 1.5m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
45	2'NB'+107.6. 9.96m RT	CTH E	MANHOLE	1	---	---	1	---	---	231.501	231.036	230.086	0.950	---	---	---	---	---	---	NOTE A. D
45A	2'NB'+107.6. 1.5m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
48	2+165.2. 9.75m LT	ASHBURY DRIVE	INLET	---	1	---	1	---	---	231.911	231.536	230.636	0.900	---	---	---	---	---	---	NOTE B
48A	2+170. 2.0m LT	ASHBURY DRIVE	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
49	2+193.6. 8.60m LT	ASHBURY DRIVE	INLET	---	1	---	1	---	---	231.917	231.542	230.642	0.900	---	---	---	---	---	---	NOTE B
49A	2+185. 1.5m LT	ASHBURY DRIVE	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
52	2'SB'+180. 3.15m RT	CTH E	INLET	---	1	---	1	---	---	232.188	231.813	230.516	1.297	---	---	---	---	---	---	NOTE B
53	2'NB'+180. 0.15m LT	CTH E	INLET	---	1	---	1	---	---	232.174	231.799	230.496	1.303	---	---	---	---	---	---	NOTE B
53A	2'NB'+180. 1.5m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
54	2'SB'+190. 10.05m LT	CTH E	INLET	---	1	---	1	---	---	232.107	231.732	230.681	1.051	---	---	---	---	---	---	NOTE B
55	2'SB'+192. 10.05m LT	CTH E	INLET	---	1	---	1	---	---	232.116	231.741	230.701	1.040	---	---	---	---	---	---	NOTE B
55A	2'SB'+200. 20.6m LT	CTH E	INLET	---	---	1	---	---	1	231.729	231.729	230.773	0.956	---	---	---	---	---	---	---
56	2'NB'+190. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	232.097	231.722	230.673	1.049	---	---	---	---	---	---	NOTE B
56A	2'NB'+190. 1.5m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
57	2'NB'+192. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	232.108	231.733	230.693	1.040	---	---	---	---	---	---	NOTE B
57A	2'NB'+215. 18.2m RT	CTH E	INLET	---	---	1	---	---	1	231.087	231.087	229.800	1.287	---	---	---	---	---	---	---
57B	2'NB'+215. 1.5m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
58	2'SB'+262. 15.2m LT	CTH E	INLET	---	---	1	---	---	1	231.350	231.350	230.428	0.922	---	---	---	---	---	---	---
59	2'SB'+265. 7.05m LT	CTH E	INLET	---	1	---	1	---	---	232.548	232.173	231.121	1.052	---	---	---	---	---	---	NOTE B
60	2'SB'+263. 7.05m LT	CTH E	INLET	---	1	---	1	---	---	232.536	232.161	230.370	1.791	---	---	---	---	---	---	NOTE B
61	2'NB'+265. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	232.548	232.173	231.121	1.052	---	---	---	---	---	---	NOTE B
62	2'NB'+263. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	232.536	232.161	231.101	1.060	---	---	---	---	---	---	NOTE B
62A	2'NB'+263. 1.5m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
63	2'SB'+320. 16.2m LT	CTH E	INLET	---	---	1	---	---	1	231.500	231.500	230.210	1.290	---	---	---	---	---	---	---
63A	2'NB'+320. 1.5m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
64	2'SB'+335. 7.05m LT	CTH E	INLET	---	1	---	1	---	---	232.974	232.599	231.559	1.040	---	---	---	---	---	---	NOTE B
65	2'NB'+335. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	232.974	232.599	231.559	1.040	---	---	---	---	---	---	NOTE B
65A	2'NB'+335. 1.5m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
66	4+077.6. 8.16m RT	MEMORY LANE	ENDWALL	---	---	---	---	---	---	---	---	232.350	---	1	---	---	---	---	---	---
67	4+070.8. 9.49m LT	MEMORY LANE	ENDWALL	---	---	---	---	---	---	---	---	232.420	---	---	1	---	---	---	---	---
67A	4+077.6. 2.5m LT	MEMORY LANE	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
68	2'SB'+404.2. 10.01m LT	CTH E	INLET	---	1	---	1	---	---	233.330	232.955	231.915	1.040	---	---	---	---	---	---	NOTE B
68A	2'NB'+390. 1.5m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
69	2'SB'+438. 7.23m LT	CTH E	INLET	---	1	---	1	---	---	233.601	233.226	232.178	1.048	---	---	---	---	---	---	NOTE B
69A	2'NB'+438. 1.5m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
70	2'SB'+440. 7.05m LT	CTH E	INLET	---	1	---	1	---	---	233.613	233.238	232.198	1.040	---	---	---	---	---	---	NOTE B
71	2'NB'+475. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	233.826	233.451	232.411	1.040	---	---	---	---	---	---	NOTE B
71A	2'NB'+475. 1.5m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
			SUBTOTALS	2	56	8	39	19	8					1	2	1	0	20	2	
CATEGORY 020																				
46	2+140. 6.09m RT	ASHBURY DRIVE	INLET	---	1	---	---	1	---	231.629	231.379	230.464	0.915	---	---	---	---	---	---	NOTE C
47	2+140. 4.57m LT	ASHBURY DRIVE	INLET	---	1	---	---	1	---	231.660	231.410	229.842	1.568	---	---	---	---	---	---	NOTE C
47A	2+140. 5.5m LT	ASHBURY DRIVE	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
50	2+259.1. 3.88m LT	ASHBURY DRIVE	INLET	---	1	---	---	1	---	231.298	231.048	230.133	0.915	---	---	---	---	---	---	NOTE C
50A	2+257. 1.5m LT	ASHBURY DRIVE	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
51	2+259.1. 6.79m RT	ASHBURY DRIVE	INLET	---	1	---	---	1	---	231.238	230.988	230.073	0.915	---	---	---	---	---	---	NOTE C
			SUBTOTALS	0	4	0	0	4	0					0	0	0	0	1	0	
			PROJECT TOTALS	2	60	8	39	23	8					1	2	1	0	21	2	

NOTE: A) TOP OF STRUCTURE ELEVATION IS TOP OF COVER MINUS CONCRETE PAVEMENT MINUS DGBC #2 MINUS CABC = 0.465m
B) TOP OF STRUCTURE ELEVATION IS TOP OF COVER MINUS CONCRETE PAVEMENT MINUS DGBC #2 MINUS 60mm = 0.375m
C) TOP OF STRUCTURE ELEVATION IS TOP OF COVER MINUS CONCRETE PAVEMENT MINUS 75mm = 0.250m
D) CONCRETE FLAT TOP SLAB WITH INLET SIZE OPENING REQUIRED.
E) TOP OF COVER ELEVATION IS FLANGE ELEVATION.
F) PLUGGING OR CAPPING END OF PIPE CONSIDERED INCIDENTAL TO COST OF REINFORCED CONCRETE PIPE.

* SEE CULVERT PIPE, CLASS III TABLE FOR TOTAL

(continued on next page)

MANHOLES, INLETS, AND COVERS (SHEET 3 OF 3)

STRUCTURE NO.	STATION	LOCATION	STRUCTURE	MANHOLE TYPE 1 EACH	INLET TYPE 3 EACH	INLET TYPE 8 EACH	INLET COVER TYPE H EACH	INLET COVER TYPE H-S EACH	INLET COVER TYPE MS-A EACH	TOP OF COVER ELEVATION	TOP OF STRUCTURE ELEVATION	INVERT ELEVATION	DEPTH m	REINFORCED CONCRETE APRON ENDWALLS 300mm EACH	450mm EACH	600mm EACH	APRON* ENDWALLS FOR CULVERT PIPE 450mm EACH	CONCRETE COLLAR EACH	PIPE GRATE 600mm EACH	REMARKS
PROJECT I.D. 4984-00-95																				
72	2'SB'+510. 7.05m LT	CTH E	INLET		1	---	1	---	---	234.039	233.664	232.656	1.008	---	---	---		---	---	NOTE B
73	2'SB'+512. 7.05m LT	CTH E	INLET	---	1	---	1	---	---	234.051	233.676	232.636	1.040	---	---	---	---	---	---	NOTE B
74	2'NB'+523. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	234.100	233.725	232.683	1.042	---	---	---	---	---	---	NOTE B
74A	2'NB'+523. 1.5m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
75	2'NB'+525. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	234.118	233.743	232.703	1.040	---	---	---	---	---	---	NOTE B
76	2'SB'+580. 15.2m LT	CTH E	INLET	---	---	1	---	---	1	234.119	234.119	232.913	1.206	---	---	---	---	---	---	---
77	2'SB'+585. 7.05m LT	CTH E	INLET	---	1	---	1	---	---	234.496	234.191	232.816	1.375	---	---	---	---	---	---	NOTE B
77A	2'SB'+587. 7.05m LT	CTH E	INLET	---	1	---	1	---	---	234.508	234.133	232.836	1.297	---	---	---	---	---	---	NOTE B
78	2'SB'+585. 0.15m RT	CTH E	INLET	---	1	---	1	---	---	234.628	234.253	232.738	1.515	---	---	---	---	---	---	NOTE B
79	2'NB'+585. 3.15m LT	CTH E	INLET	---	1	---	1	---	---	234.568	234.193	232.718	1.475	---	---	---	---	---	---	NOTE B
80	2'NB'+585. 8.35m RT	CTH E	INLET	---	1	---	1	---	---	234.542	234.167	233.119	1.048	---	---	---	---	---	---	NOTE B
80A	2'NB'+587. 8.55m RT	CTH E	INLET	---	1	---	1	---	---	234.554	234.179	233.139	1.040	---	---	---	---	---	---	NOTE B
80B	2'NB'+585. 1.5m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
81	2'NB'+640. 17.2m RT	CTH E	INLET	---	---	1	---	---	1	234.650	234.650	232.634	2.016	---	---	---	---	---	---	---
81A	2'NB'+640. 1.5m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
82	2'SB'+688.5. 13.05m LT	CTH E	INLET	---	1	---	1	---	---	235.388	235.013	233.973	1.040	---	---	---	---	---	---	NOTE B
83	2'SB'+688.9. 3.15m RT	CTH E	INLET	---	1	---	1	---	---	235.451	235.076	233.838	1.238	---	---	---	---	---	---	NOTE B
84	2'NB'+688.9. 3.15m LT	CTH E	INLET	---	1	---	1	---	---	235.409	235.034	233.818	1.216	---	---	---	---	---	---	NOTE B
84A	2'NB'+688.9. 1.5m RT	CTH E	EXIST PIPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
85	2'NB'+688.9. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	235.317	234.942	233.902	1.040	---	---	---	---	---	---	NOTE B
86	2'SB'+723.2. 13.05m LT	CTH E	MANHOLE	1	---	---	1	---	---	235.556	235.091	233.236	1.855	---	---	---	---	---	---	NOTE A
87	2'SB'+725.2. 13.05m LT	CTH E	INLET	---	1	---	1	---	---	235.564	235.189	234.149	1.040	---	---	---	---	---	---	NOTE B
88	2'NB'+723.2. 7.05m RT	CTH E	MANHOLE	1	---	---	1	---	---	235.497	235.032	233.990	1.042	---	---	---	---	---	---	NOTE A
88A	2'NB'+721. 1.5m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
88B	2'NB'+723. 13.3m RT	CTH E	CAPPED PIPE	---	---	---	---	---	---	---	---	233.990	---	---	---	---	---	---	---	---
89	2'NB'+725.2. 7.05m RT	CTH E	INLET	---	1	---	1	---	---	235.507	235.132	234.000	1.132	---	---	---	---	---	---	NOTE B
90	2'SB'+779.8. 12.7m LT	CTH E	ENDWALL	---	---	---	---	---	---	---	---	234.729	---	---	---	1	---	---	1	---
90A	2'NB'+785. 1.5m RT	CTH E	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
91	2'NB'+880. 13.4m RT	CTH E	ENDWALL	---	---	---	---	---	---	---	---	235.492	---	---	---	---	1	---	1	---
110	1'WB'+143. 7.05m LT	CTH JJ	MANHOLE	1	---	---	1	---	---	236.198	235.733	234.385	1.348	---	---	---	---	---	---	NOTE A
110A	1'EB'+141. 3.0m RT	CTH JJ	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
111	1'EB'+143. 7.05m RT	CTH JJ	INLET	---	1	---	1	---	---	236.198	235.823	234.827	0.996	---	---	---	---	---	---	NOTE B
112	1'WB'+202.3. 11.05m LT	CTH JJ	INLET	---	1	---	---	1	---	235.248	234.873	233.873	1.000	---	---	---	---	---	---	NOTE B
113	1'WB'+193.5. 0.15m RT	CTH JJ	INLET	---	1	---	1	---	---	235.377	235.002	233.788	1.214	---	---	---	---	---	---	NOTE B
114	1'EB'+193.5. 3.45m LT	CTH JJ	INLET	---	1	---	1	---	---	235.272	234.897	233.766	1.131	---	---	---	---	---	---	NOTE B
115	1'EB'+193.5. 7.05m RT	CTH JJ	INLET	---	1	---	1	---	---	235.152	234.777	233.700	1.077	---	---	---	---	---	---	NOTE B
115A	1'WB'+195. 3.0m RT	CTH JJ	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
116	1'WB'+260. 7.05m LT	CTH JJ	INLET	---	1	---	---	1	---	234.914	234.539	233.539	1.000	---	---	---	---	---	---	NOTE B
117	1'WB'+260. 3.45m RT	CTH JJ	INLET	---	1	---	---	1	---	124.914	234.539	233.497	1.042	---	---	---	---	---	---	NOTE B
118	1'EB'+260. 0.15m LT	CTH JJ	INLET	---	1	---	---	1	---	234.976	234.601	233.495	1.106	---	---	---	---	---	---	NOTE B
118A	1'EB'+258. 3.0m RT	CTH JJ	EXIST MANHOLE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
119	1'EB'+260. 7.05m RT	CTH JJ	INLET		1	---	---	1	---	234.844	234.469	233.469	1.000	---	---	---	---	---	---	NOTE B
120	1'WB'+240. 14.0m LT	CTH JJ	INLET		---	1	---	---	1	234.800	234.800	233.193	1.607	---	---	---	---	---	---	NOTE B
			PROJECT TOTALS	3	25	3	23	5	3					0	0	1	1	2	2	
			CONTRACT TOTALS	5	85	11	62	28	11					1	2	2	1	23	4	

NOTE: A) TOP OF STRUCTURE ELEVATION IS TOP OF COVER MINUS CONCRETE PAVEMENT MINUS OGBC #2 MINUS CABC = 0.465m
B) TOP OF STRUCTURE ELEVATION IS TOP OF COVER MINUS CONCRETE PAVEMENT MINUS OGBC #2 MINUS 60mm = 0.375m
C) TOP OF STRUCTURE ELEVATION IS TOP OF COVER MINUS CONCRETE PAVEMENT MINUS 75mm = 0.250m
D) CONCRETE FLAT TOP SLAB WITH INLET SIZE OPENING REQUIRED.
E) TOP OF COVER ELEVATION IS FLANGE ELEVATION.
F) PLUGGING OR CAPPING END OF PIPE CONSIDERED INCIDENTAL TO COST OF REINFORCED CONCRETE PIPE.

* SEE CULVERT PIPE, CLASS III TABLE FOR TOTAL (THIS ITEM & QUANTITY ARE INCLUDED IN THAT LIST.)

CONCRETE CURB & GUTTER, TYPE A

STATION TO STATION	LOCATION	450mm m	750mm m
PROJECT I.D. 4984-00-97			
CATEGORY 010			
1 'NB'+055.5 - 1 'NB'+180	CTH E	235	260
1 'NB'+180 - 1 'NB'+360	CTH E	310	375
1 'NB'+360 - 1 'NB'+540	CTH E	310	345
1 'NB'+540 - 1 'NB'+720	CTH E	360	360
1 'NB'+720 - 1 'NB'+900	CTH E	360	360
1 'NB'+900 - 2 'NB'+080	CTH E	360	360
2 'NB'+080 - 2 'NB'+260	CTH E	180	377
2 'NB'+260 - 2 'NB'+440	CTH E	---	358
2 'NB'+440 - 2 'NB'+500	CTH E	---	130
	SUBTOTALS	2 115	2 925
CATEGORY 020			
2+081.7 - 2+152.4	ASHBURY DRIVE	---	150
2+210 - 2+277.4	ASHBURY DRIVE	---	140
	SUBTOTALS	0	290
	PROJECT TOTALS	2 115	3 215
PROJECT I.D. 4984-00-95			
2 'NB'+500 - 2 'NB'+620	CTH E	75	240
2 'NB'+620 - 2 'NB'+800	CTH E	203	320
1 'EB'+131 - 1 'EB'+203	CTH JJ	127	125
1 'EB'+236 - 1 'EB'+300	CTH JJ	120	110
	PROJECT TOTALS	525	795
	TOTALS	2 640	4 010

CONCRETE CURB & GUTTER, 750mm, TYPE D

STATION TO STATION	LOCATION	m
PROJECT I.D. 4984-00-97		
CATEGORY 010		
2 'NB'+440.9, RT	CTH E	4
2 'NB'+460.5, RT	CTH E	4
	SUBTOTAL	8
CATEGORY 020		
2+277.4 - 2+290.5, RT	ASHBURY DRIVE	13
2+277.4 - 2+289.6, LT	ASHBURY DRIVE	18
	SUBTOTAL	31
	PROJECT TOTAL	39
PROJECT I.D. 4984-00-95		
2 'NB'+782.6 - 2 'NB'+863.4, RT	CTH E	82
2 'SB'+782.6 - 2 'SB'+789.0, LT	CTH E	7
1 'EB'+040 - 1 'EB'+131, RT	CTH JJ	92
1 'WB'+040 - 1 'WB'+131.LT	CTH JJ	93
1 'EB'+300 - 1 'EB'+327, RT	CTH JJ	28
1 'WB'+300 - 1 'WB'+318, LT	CTH JJ	19
	PROJECT TOTAL	321
	TOTAL	360

LANDMARK REFERENCE MONUMENTS

STATION	LOCATION	MONUMENT AND COVER EACH	WITNESS MONUMENT EACH
PROJECT I.D. 4984-00-97			
CATEGORY 010			
1+049.997	CTH E, SOUTHEAST CORNER OF SECTION 12, T21N, R17E	---	2
1+851.928	CTH A, NORTHEAST CORNER OF SOUTHEAST 1/4 OF SECTION 12, T21N, R17E	1	4
	PROJECT TOTALS	1	6
PROJECT I.D. 4984-00-95			
2+662.159	CTH E, NORTHEAST CORNER OF SECTION 12, T21	1	4
	TOTALS	2	10

CONCRETE SIDEWALK, 100mm

STATION TO STATION	LOCATION	sm
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1 'NB'+055.5 - 1 'NB'+180, RT	CTH E	362
1 'NB'+055.5 - 1 'NB'+180, LT	MEDIAN	581
1 'SB'+055.5 - 1 'SB'+180, LT	CTH E	187
1 'NB'+180 - 1 'NB'+360, RT	CTH E	452
1 'NB'+180 - 1 'NB'+360, LT	MEDIAN	77
1 'SB'+180 - 1 'SB'+360, LT	CTH E	260
1 'NB'+360 - 1 'NB'+540, RT	CTH E	530
1 'NB'+360 - 1 'NB'+540, LT	MEDIAN	110
1 'SB'+360 - 1 'SB'+540, LT	CTH E	230
1 'NB'+540 - 1 'NB'+720, RT	CTH E	521
1 'SB'+540 - 1 'SB'+720, LT	CTH E	256
1 'NB'+720 - 1 'NB'+900, RT	CTH E	531
1 'SB'+720 - 1 'SB'+900, LT	CTH E	270
1 'NB'+900 - 2 'NB'+080, RT	CTH E	494
1 'SB'+900 - 2 'SB'+080, LT	CTH E	270
2 'NB'+080 - 2 'NB'+260, RT	CTH E	472
2 'NB'+080 - 2 'NB'+260, LT	MEDIAN	52
2 'SB'+080 - 2 'SB'+260, LT	CTH E	212
2 'NB'+260 - 2 'NB'+440, RT	CTH E	540
2 'SB'+260 - 2 'SB'+440, LT	CTH E	241
2 'NB'+440 - 2 'SB'+500, RT	CTH E	127
2 'SB'+440 - 2 'SB'+500, LT	CTH E	135
	SUBTOTAL	6 910
CATEGORY 020		
2+081.7 - 2+170, LT	ASHBURY DRIVE	130
2+081.7 - 2+170, RT	ASHBURY DRIVE	130
2+198 - 2+287.5, LT	ASHBURY DRIVE	270
2+198 - 2+287.5, RT	ASHBURY DRIVE	300
	SUBTOTAL	830
	PROJECT TOTAL	7 740
PROJECT I.D. 4984-00-95		
2 'NB'+500 - 2 'NB'+620, RT	CTH E	353
2 'SB'+500 - 2 'SB'+620, LT	CTH E	115
2 'NB'+500 - 2 'NB'+620, LT	MEDIAN	34
2 'NB'+620 - 2 'NB'+800, RT	MEDIAN	77
2 'SB'+620 - 2 'SB'+800, LT	MEDIAN	41
2 'NB'+620 - 2 'NB'+800, LT	MEDIAN	87
1 'EB'+150.5 - 1 'EB'+202.1, LT	MEDIAN	93
1 'EB'+235.9 - 1 'EB'+300, LT	MEDIAN	180
	PROJECT TOTAL	980
	TOTAL	8 720

CONCRETE CORRUGATED MEDIAN

STATION TO STATION	LOCATION	sm
PROJECT I.D. 4984-00-97		
CATEGORY 010		
2 'NB'+204.8 - 2 'NB'+234.8	CTH E	100
	SUBTOTAL	100
PROJECT I.D. 4984-00-95		
2 'NB'+552.7 - 2 'NB'+582.6	CTH E	100
1 'EB'+073.4 - 1 'EB'+155	CTH JJ	312
1 'EB'+295 - 1 'EB'+355.8	CTH JJ	238
	PROJECT TOTAL	650
	TOTAL	750

ASPHALTIC FLUMES

STATION	LOCATION	sm
PROJECT I.D. 4984-00-97		
CATEGORY 010		
4+980, LT	MEMORY LANE	7
	SUBTOTAL	7
PROJECT I.D. 4984-00-95		
1 'WB'+317, LT	CTH JJ	8
1 'EB'+329, RT	CTH JJ	8
	PROJECT TOTAL	16
	TOTAL	23

ADJUSTING MANHOLE COVERS

STATION	LOCATION	TYPE	ADJUSTING MANHOLE COVERS EACH	FINAL ELEVATION
PROJECT ID 4984-00-97				
CATEGORY 010				
1'NB' +225 10.m RT	CTH E	STORM	1	229.021
1'NB' +348 10.m RT	CTH E	STORM	1	228.911
1'NB' +494.5 10.m RT	CTH E	STORM	1	229.582
1'NB' +650 10.m RT	CTH E	STORM	1	229.512
1'NB' +746.5 10.m RT	CTH E	STORM	1	229.890
1'NB' +880 10.m RT	CTH E	STORM	1	229.895
2'SB' +158.5 10.m LT	CTH E	STORM	1	232.013
2'NB' +158.5 2.0m RT	CTH E	STORM	1	232.042
2'NB' +263 2.0m RT	CTH E	STORM	1	232.627
2'NB' +389.5 2.0m RT	CTH E	STORM	1	233.420
4+978 2.0m LT	SILVER LEAF COURT	STORM	1	233.111
		SUBTOTAL	11	
CATEGORY 020				
2+258 1.0m RT	ASHBURY DRIVE	STORM	1	231.357
		PROJECT TOTAL	1	
PROJECT ID 4984-00-95				
2'NB' +523 2.0m RT	CTH E	STORM	1	234.250
2'NB' +583.5 2.0m RT	CTH E	STORM	1	234.602
2'NB' +657 2.0m RT	CTH E	STORM	1	235.226
2'NB' +722 2.0m RT	CTH E	STORM	1	235.588
1'EB' +068 4.5m RT	CTH JJ	STORM	1	238.180
1'EB' +144.5 3.0m RT	CTH JJ	STORM	1	236.261
1'EB' +196 2.5m LT	CTH JJ	STORM	1	235.226
1'EB' +258.5 2.5m RT	CTH JJ	STORM	1	234.933
		PROJECT TOTAL	8	
		TOTAL	20	

WATER AND CALCIUM CHLORIDE SURFACE TREATMENT

STATION TO STATION	LOCATION	WATER kL	CALCIUM CHLORIDE Mg
PROJECT I.D. 4984-00-97			
CATEGORY 010			
1'NB'+055.5 - 1'NB'+180	CTH E	25	2.1
1'NB'+180 - 1'NB'+360	CTH E	35	3.1
1'NB'+360 - 1'NB'+540	CTH E	36	3.3
1'NB'+540 - 1'NB'+720	CTH E	31	2.8
1'NB'+720 - 1'NB'+900	CTH E	31	2.8
1'NB'+900 - 2'NB'+080	CTH E	31	2.8
2'NB'+080 - 2'NB'+260	CTH E	47	4.2
2'NB'+260 - 2'NB'+440	CTH E	37	3.3
2'NB'+440 - 2'NB'+500	CTH E	12	1.1
4+009.7 - 4+050	SILVER LEAF COURT	4	0.3
4+940.8 - 4+989.2	MEMORY LANE	11	1.0
	SUBTOTALS	300	26.8
CATEGORY 020			
2+081.7 - 2+260	ASHBURY DRIVE	25	2.3
2+260 - 2+293.5	ASHBURY DRIVE	10	0.9
	SUBTOTALS	35	3.2
	PROJECT TOTALS	335	30.0
PROJECT I.D. 4984-00-95			
2'NB'+500 - 2'NB'+620	CTH E	30	2.8
2'NB'+620 - 2'NB'+800	CTH E	62	5.6
2'NB'+800 - 2'NB'+980	CTH E	47	4.3
2'NB'+980 - 3'NB'+055	CTH E	13	1.1
1'EB'+040 - 1'EB'+180	CTH JJ	40	3.5
1'EB'+180 - 1'EB'+360	CTH JJ	40	3.5
1'EB'+360 - 1'EB'+369.7	CTH JJ	3	0.2
	PROJECT TOTALS	235	21.0
	TOTALS	570	51.0

PLOT DATE: 10/15/99 PLOT SCALE: 1:
PLOT NAME: SEE FILE NAME 56.57. 59. 50.51.
REV. DATE: 02/02/00
TECH/ENGR: KRE/SDC
APPLETON, WI 54914-1654 .2DG
ONE SYSTEMS DRIVE /M003
ORIGINATOR: OMNNI ASSOCIATES /PLAN
FILE NAME: E1339498/SHEETS
LEVELS ON .

PIPE UNDERDRAIN AND GEOTEXTILE FABRIC, TYPE DF

STATION TO STATION	LOCATION	150mm m	FABRIC sm	REMARKS
PROJECT I.D. 4984-00-97				
CATEGORY 010				
1'SB'+055.5 - 1'SB'+170. LT	CTH E	114	330	CONNECT TO INLET 3
1'SB'+064.5 - 1'SB'+119. RT	CTH E	55	155	CONNECT TO INLET 2
1'NB'+072 - 1'NB'+170. RT	CTH E	98	285	CONNECT TO INLET 1 AND 6
1'NB'+170 - 1'NB'+225. RT	CTH E	55	160	CONNECT TO INLET 6 AND 7
1'SB'+170 - 1'SB'+380. LT	CTH E	210	605	CONNECT TO INLET 3 AND 14
1'NB'+225 - 4+028. RT	CTH E	63	185	CONNECT TO INLET 7 AND 8
4+028 - 1'NB'+350. RT	CTH E	72	210	CONNECT TO INLET 9 AND 13
1'SB'+304 - 1'SB'+350. RT	CTH E	45	130	CONNECT TO INLET 11
1'NB'+350 - 1'NB'+380. RT	CTH E	30	90	CONNECT TO INLET 13 AND 17
1'NB'+380 - 1'NB'+440. RT	CTH E	60	175	CONNECT TO INLET 17 AND 20
1'NB'+380 - 1'NB'+455. LT	CTH E	75	220	CONNECT TO INLET 16
1'SB'+382 - 1'SB'+491. LT	CTH E	109	315	CONNECT TO INLET 18
1'NB'+440 - 1'NB'+496. RT	CTH E	56	165	CONNECT TO INLET 20 AND 25
1'NB'+496 - 1'NB'+648. RT	CTH E	150	435	CONNECT TO INLET 25 AND 28
1'SB'+490.9 - 1'SB'+648. LT	CTH E	155	450	CONNECT TO INLET 22 AND 27
1'NB'+650 - 1'NB'+880. RT	CTH E	230	665	CONNECT TO INLET 32 AND 38
1'SB'+650 - 1'SB'+880. LT	CTH E	230	665	CONNECT TO INLET 29 AND 35
1'NB'+880 - 1'NB'+980. RT	CTH E	100	290	CONNECT TO INLET 38 AND 43
1'SB'+880 - 1'SB'+980. LT	CTH E	100	290	CONNECT TO INLET 35 AND 40
1'NB'+980 - 2'NB'+107.6. RT	CTH E	128	370	CONNECT TO INLET 43 AND 45
1'SB'+980 - 2'SB'+145. LT	CTH E	166	480	CONNECT TO INLET 40
2'NB'+105.7 - 2'NB'+137.4. LT	CTH E	32	95	CONNECT TO INLET 44
2'NB'+107.6 - 2'NB'+145. RT	CTH E	38	110	CONNECT TO INLET 45
2'NB'+193.6 - 2'NB'+190. RT	CTH E	25	75	CONNECT TO INLET 49 AND 56
2'SB'+165.2 - 2'SB'+190. LT	CTH E	25	75	CONNECT TO INLET 48 AND 54
2'SB'+180 - 2'SB'+234. RT	CTH E	54	160	CONNECT TO INLET 52
2'NB'+192 - 2'NB'+263. RT	CTH E	71	205	CONNECT TO INLET 57 AND 62
2'SB'+192 - 2'SB'+263. LT	CTH E	71	205	CONNECT TO INLET 55 AND 60
2'NB'+265 - 2'NB'+335. RT	CTH E	70	205	CONNECT TO INLET 61 AND 65
2'SB'+265 - 2'SB'+335. LT	CTH E	70	205	CONNECT TO INLET 59 AND 64
2'NB'+335 - 2'NB'+475. RT	CTH E	140	405	CONNECT TO INLET 65 AND 71
2'SB'+335 - 2'SB'+403. LT	CTH E	67	195	CONNECT TO INLET 64
2'SB'+404.2 - 2'SB'+438. LT	CTH E	36	105	CONNECT TO INLET 68 AND 69
2'NB'+475 - 2'NB'+500. RT	CTH E	25	75	CONNECT TO INLET 71
2'SB'+440 - 2'SB'+500. LT	CTH E	60	175	CONNECT TO INLET 70
	PROJECT TOTALS	3 085	8 960	
PROJECT I.D. 4984-00-95				
2'NB'+500 - 2'NB'+523. RT	CTH E	23	70	CONNECT TO INLET 74
2'SB'+500 - 2'NB'+510. LT	CTH E	10	30	CONNECT TO INLET 72
2'SB'+512 - 2'SB'+585. LT	CTH E	73	215	CONNECT TO INLET 73 AND 77
2'NB'+525 - 2'NB'+585. RT	CTH E	60	175	CONNECT TO INLET 75 AND 80
2'NB'+585 - 1'EB'+260. RT	CTH E	88	255	CONNECT TO INLET 80 AND 119
2'NB'+585 - 2'NB'+620. LT	CTH E	35	105	CONNECT TO INLET 79
2'SB'+585 - 1'EB'+193.5. LT	CTH E	76	220	CONNECT TO INLET 77 AND 115
1'WB'+260 - 2'NB'+688.9. RT	CTH E	41	120	CONNECT TO INLET 116 AND 85
1'NB'+202.3 - 2'SB'+688.5. LT	CTH E	15	45	CONNECT TO INLET 112 AND 82
2'NB'+688.9 - 2'NB'+723.2. RT	CTH E	35	105	CONNECT TO INLET 85 AND 88
2'SB'+688.5 - 2'SB'+723.2. LT	CTH E	35	105	CONNECT TO INLET 82 AND 86
2'SB'+688.9 - 2'SB'+736. RT	CTH E	47	140	CONNECT TO INLET 83
2'NB'+725.2 - 2'NB'+865. RT	CTH E	160	465	CONNECT TO INLET 89
2'SB'+725.2 - 2'SB'+853. LT	CTH E	130	375	CONNECT TO INLET 87
1'EB'+143 - 1'EB'+193.5. RT	CTH JJ	51	150	CONNECT TO INLET 111 AND 115
1'WB'+143 - 1'WB'+202.3. LT	CTH JJ	63	185	CONNECT TO INLET 110 AND 112
1'EB'+140 - 1'EB'+193.5. LT	CTH JJ	53	155	CONNECT TO INLET 114
1'EB'+260 - 1'EB'+300. RT	CTH JJ	40	120	CONNECT TO INLET 119
1'WB'+260 - 1'WB'+300. LT	CTH JJ	40	120	CONNECT TO INLET 116
1'WB'+240 - 1'WB'+260. RT	CTH JJ	20	60	CONNECT TO INLET 117
1'WB'+260 - 1'WB'+300. RT	CTH JJ	40	125	CONNECT TO INLET 117
	PROJECT TOTALS	1 135	3 340	
	TOTALS	4 220	12 300	

MOVING SIGNS, TYPE II AND WOOD POSTS

SIGN NO.	FROM STATION	TO STATION	LOCATION	DESCRIPTION	SIGNS EACH	WOOD POST 4.9m EACH
PROJECT I.D. 4984-00-97						
CATEGORY 010						
23	1'NB'+619.8m LT	1'SB'+619.8.9m LT	CTH E	CITY NAME WITH POPULATION	1	1
24	1'NB'+619.8m LT	1'SB'+619.8.9m LT	CTH E	NO PARKING WITH TIME RESTRICITON	1	---
				TOTALS	2	1*

* INCLUDED UNDER SIGNS, TYPE II AND WOOD POSTS MISC. QUANTITY TABLE

TOPSOIL, FERTILIZER, MULCHING, SEEDING, SODDING, AND WATERING SODDED AREAS

STATION TO STATION	LOCATION	TOPSOIL sm	FERTILIZER TYPE B kg	MULCHING sm	SEEDING MIXTURE NO. 10 kg	SEEDING MIXTURE NO. 40 kg	SODDING sm	WATERING SODDED AREAS kL
PROJECT I.D. 4984-00-97								
CATEGORY 010								
1'NB'+055.5 - 1'NB'+180	CTH E	1 900	66	965	5	10	935	47
1'NB'+180 - 1'NB'+360	CTH E	2 400	85	1 385	7	13	1 025	55
1'NB'+360 - 1'NB'+540	CTH E	2 830	100	1 835	8	15	1 025	50
1'NB'+540 - 1'NB'+720	CTH E	3 000	105	1 400	8	15	1 605	80
1'NB'+720 - 1'NB'+900	CTH E	4 160	146	2 335	12	25	1 825	91
1'NB'+900 - 2'NB'+080	CTH E	4 270	150	2 535	13	30	1 750	90
2'NB'+080 - 2'NB'+260	CTH E	2 400	85	1 610	9	17	800	40
2'NB'+260 - 2'NB'+440	CTH E	3 300	115	2 265	12	25	1 055	52
2'NB'+440 - 2'NB'+500	CTH E	790	24	740	3	5	50	5
	SUBTOTALS	25 050	876	15 070	77	155	10 070	510
CATEGORY 020								
2+081 - 2+293	ASHBURY DRIVE	2 100	74	990	5	10	1 110	60
	PROJECT TOTAL	27 150	950	16 060	82	165	11 180	570
PROJECT I.D. 4984-00-95								
2'NB'+500 - 2'NB'+620	CTH E	1 635	60	1 475	6	11	170	10
2'NB'+620 - 2'NB'+800	CTH E	1 565	55	1 215	4	7	370	20
2'NB'+800 - 2'NB'+980	CTH E	4 370	153	4 370	22	45	20	---
2'NB'+980 - 3'NB'+055	CTH E	830	30	830	5	10	---	---
1'EB'+040 - 1'EB'+369.7	CTH JJ	1 750	62	1 750	11	22	---	---
	PROJECT TOTALS	10 150	360	9 640	48	95	560	30
	TOTALS	37 300	1 310	25 700	130	260	11 740	600

EROSION CONTROL

STATION TO STATION	LOCATION	SILT FENCE DELIVERED m	SILT FENCE INSTALLED m	SILT FENCE MAINTENANCE m	FILTER BAGS DELIVERED EACH	FILTER BAGS INSTALLED EACH	FILTER BAGS MAINTENANCE EACH
PROJECT ID 4984-00-97							
CATEGORY 010							
1'NB'+ 060 - 1'NB'+ 210 RT	CTH E	63	63	126	18	18	36
1'SB'+ 060 - 1'SB'+ 210 LT	CTH E	138	138	276	45	45	90
1'NB'+ 210 - 1'NB'+ 390 RT	CTH E	50	50	100	80	80	160
1'SB'+ 210 - 1'SB'+ 390 LT	CTH E	---	---	---	70	70	140
1'NB'+ 390 - 1'NB'+ 570 RT	CTH E	140	140	280	15	15	30
1'SB'+ 390 - 1'SB'+ 570 LT	CTH E	65	65	130	70	70	140
1'NB'+ 570 - 1'NB'+ 750 RT	CTH E	141	141	282	45	45	90
1'SB'+ 570 - 1'SB'+ 750 LT	CTH E	55	55	110	45	45	90
1'NB'+ 750 - 1'NB'+ 930 RT	CTH E	179	179	358	10	10	20
1'SB'+ 750 - 1'SB'+ 930 LT	CTH E	17	17	34	10	10	20
1'NB'+ 930 - 2'NB'+ 110 RT	CTH E	139	139	278	55	55	110
1'SB'+ 930 - 2'SB'+ 110 LT	CTH E	142	142	284	45	45	90
2'NB'+ 110 - 2'NB'+ 290 RT	CTH E	155	155	310	30	30	60
2'SB'+ 110 - 2'SB'+ 290 LT	CTH E	111	111	222	50	50	100
2'NB'+ 290 - 2'NB'+ 470 RT	CTH E	162	162	324	5	5	10
2'SB'+ 290 - 2'SB'+ 470 LT	CTH E	74	74	148	40	40	80
2'NB'+ 470 - 2'NB'+ 500 RT	CTH E	26	26	52	5	5	10
2'SB'+ 470 - 2'SB'+ 500 LT	CTH E	11	11	22	---	---	---
UNDISTRIBUTED		132	132	264	62	62	124
	SUBTOTALS	1 800	1 800	3 600	700	700	1 400
CATEGORY 020							
2 + 080 - 2 + 150 RT	ASHBURY	50	115	230	15	15	30
2 + 080 - 2 + 150 LT	ASHBURY	65	---	---	15	15	30
2 + 210 - 2 + 294 RT	ASHBURY	47	115	230	15	15	30
2 + 210 - 2 + 294 LT	ASHBURY	68	---	---	15	15	30
UNDISTRIBUTED		70	70	140	10	10	20
	SUBTOTALS	300	300	600	70	70	140
	PROJECT TOTAL	2 100	2 100	4 200	770	770	1 540
PROJECT ID 4984-00-95							
2'NB'+ 500 - 2'NB'+ 630 RT	CTH E	53	53	106	25	25	50
2'SB'+ 500 - 2'SB'+ 630 LT	CTH E	85	85	170	47	47	94
2'NB'+ 630 - 2'NB'+ 800 RT	CTH E	88	88	176	100	100	200
2'SB'+ 630 - 2'SB'+ 800 LT	CTH E	26	26	52	---	---	---
2'NB'+ 800 - 2'NB'+ 980 RT	CTH E	---	---	---	---	---	---
2'SB'+ 800 - 2'SB'+ 980 LT	CTH E	---	---	---	---	---	---
1'EB'+ 040 - 1'EB'+ 190 RT	CTH JJ	47	47	94	5	5	10
1'WB'+ 040 - 1'WB'+ 190 LT	CTH JJ	---	---	---	5	5	10
1'EB'+ 250 - 1'EB'+ 370 RT	CTH JJ	49	49	98	38	38	76
1'WB'+ 250 - 1'WB'+ 370 LT	CTH JJ	---	---	---	38	38	76
UNDISTRIBUTED		52	52	104	72	72	144
	PROJECT TOTAL	400	400	800	330	330	660
	TOTALS	2 500	2 500	5 000	1 100	1 100	2 200

REMOVING SIGNS, TYPE II AND SMALL SIGN SUPPORTS

SIGN NO.	STATION	LOCATION	SIGN CODE	SIGNS EACH	SIGN SUPPORT EACH	DESCRIPTION
PROJECT I.D. 4984-00-97						
CATEGORY 010						
10	1'NB'+058. 21 m RT	CTH E	R1-1	1	1	STOP
11	1'NB'+058. 21 m RT	CTH E	R6-3A	1	---	DIVIDED HIGHWAY CROSSING
12	1'NB'+059. 21 m RT	CTH E	R6-2R	1	1	ONE WAY
13	1'NB'+079. 16 m LT	CTH E	R5-1	1	1	DO NOT ENTER
14	1'NB'+079. 16 m LT	CTH E	D4-2L	1	---	PARK AND RIDE
15	1'NB'+092. 105 m RT	CTH E	R5-9	1	1	WRONG WAY
16	1'NB'+092. 105 m RT	CTH E	R2-1	1	---	SPEED LIMIT
17	1'NB'+146	CTH E	R4-7	1	1	KEEP RIGHT SYMBOL
18	1'NB'+150. 8.5 m RT	CTH E	W6-6	1	1	TWO WAY TRAFFIC SYMBOL
19	1'NB'+150. 8.5 m RT	CTH E	R5-1	1	---	NO NOT ENTER
20	1'NB'+293. 12 m RT	CTH E	R1-1	1	1	STOP
21	1'NB'+316. 85 m LT	CTH E	W6-2	1	1	DIVIDED HIGHWAY ENDS SYMBOL
22	1'NB'+377. 9 m LT	CTH E	R2-1	1	1	SPEED LIMIT
25	1'NB'+696. 8 m LT	CTH E	R2-1	1	1	SPEED LIMIT
26	1'NB'+697. 5 m RT	CTH E	R2-1	1	1	SPEED LIMIT
27	1'NB'+917. 5 m RT	CTH E	S1-1	1	1	SCHOOL ADVANCE
28	2'NB'+032. 9 m LT	CTH E	R2-1	1	1	SPEED LIMIT
29	2'NB'+033. 4.5 m RT	CTH E	S4-51	1	1	SCHOOL SPEED LIMIT
30	2'NB'+133. 7 m RT	CTH E	R2-1	1	1	SPEED LIMIT
31	2'NB'+344. 6 m RT	CTH E	W3-3	1	1	SIGNAL AHEAD SYMBOL
32	2'NB'+380. 10 m LT	CTH E	R1-1	1	1	STOP
33	4+974. 5 m LT	MEMORY LANE	R2-1	1	1	SPEED LIMIT
34	2'NB'+406. 7 m RT	CTH E	J1-1	1	1	JCT CTH JJ
35	2'NB'+411. 9 m LT	CTH E	R2-1	1	1	SPEED LIMIT
36	2'NB'+469. 8.5 m RT	CTH E	R1-1	1	1	STOP
50	2+163. 9 m RT	ASHBURY DRIVE	R1-1	1	1	STOP
51	2+212. 9 m RT	ASHBURY DRIVE	W14-1	1	1	NO OUTLET
52	2+212. 9 m RT	ASHBURY DRIVE	R8-3A	1	---	NO PARKING SYMBOL
53	2+212. 4 m LT	ASHBURY DRIVE	R8-3A	1	1	NO PARKING SYMBOL
			SUBTOTALS	25	21	
CATEGORY 020						
54	2+251. 8 m LT	ASHBURY DRIVE	---	1	1	NO PARKING SCHOOL DAYS WITH ARROW
55	2+251. 8 m LT	ASHBURY DRIVE	---	1	---	NO PARKING WITH ARROW
56	2+280. 6.5 m LT	ASHBURY DRIVE	---	1	1	NO PARKING SCHOOL DAYS WITH ARROW
57	2+287. 12 m LT	ASHBURY DRIVE	R1-2	1	1	YIELD
			SUBTOTALS	4	3	
			PROJECT TOTALS	29	24	
PROJECT I.D. 4984-00-95						
37	2'NB'+630. 9 m LT	CTH E	R2-1	1	1	SPEED LIMIT
38	2'NB'+652. 10 m RT	CTH E	J13-1	1	1	CTH JJ WITH DOUBLE ARROW
39	2'NB'+653. 17 m LT	CTH E	J13-1	1	1	CTH E WITH DOUBLE ARROW
40	2'NB'+671. 15 m RT	CTH E	J13-1	1	1	CTH E WITH DOUBLE ARROW
41	2'NB'+672. 15 m LT	CTH E	J13-1	1	1	CTH JJ WITH DOUBLE ARROW
42	2'NB'+718. 5 m RT	CTH E	R2-1	1	1	SPEED LIMIT
43	2'NB'+814. 7 m LT	CTH E	S4-51	1	1	SCHOOL SPEED LIMIT
60	1'EB'+094. 7 m RT	CTH JJ	S4-51	1	1	SCHOOL SPEED LIMIT
61	1'EB'+144. 11 m LT	CTH JJ	W11-3	1	1	DEER CROSSING SYMBOL
62	1'EB'+144. 11 m LT	CTH JJ	W57-51	1	---	NEXT 1/2 MILE
63	1'EB'+183. 11 m LT	CTH JJ	R2-1	1	1	SPEED LIMIT
64	1'EB'+271. 4.5 m RT	CTH JJ	R2-1	1	---	SPEED LIMIT
			PROJECT TOTALS	12	10	
			TOTALS	41	34	

TRAFFIC CONTROL, BARRICADES, DRUMS, WARNING LIGHTS AND SIGNS

LOCATION OR STAGE	SERVICE PERIOD DAYS	SIGN NO.	SIGN DAYS	BARRICADES TYPE III NO	BARRICADES TYPE III DAYS	DRUMS NO	DRUMS DAYS	WARNING LIGHTS TYPE C NO	WARNING LIGHTS TYPE C DAYS
PROJECT I.D. 4984-00-97									
CTH E	155	27	4 185	20	3 100	---	---	---	---
DETOUR	155	12	1 860	---	---	---	---	---	---
PROJECT TOTALS			6 045		3 100		0		0
PROJECT I.D. 4984-00-95									
STAGE 1, PHASE 1	2	21	42	6	12	38	76	---	---
STAGE 1, PHASE 2	25	45	1 125	27	675	137	3 425	54	1 350
STAGE 2	25	43	1 075	18	450	144	3 600	59	1 475
STAGE 3	10	33	330	33	330	232	2 320	101	1 010
UNDISTRIBUTED	155	24	3 720	15	2 325	83	12 865	32	4 960
PROJECT TOTALS			6 292		3 792		22 286		8 795
TOTALS			12 337		6 892		22 286		8 795

TEMPORARY PAVEMENT MARKING, 100mm

LOCATION	TRAFFIC CONTROL STAGE	CENTERLINE DOUBLE YELLOW m	EDGELINE WHITE m	REMOVABLE TAPE CENTERLINE DOUBLE YELLOW m	REMOVABLE TAPE EDGELINE WHITE m
PROJECT I.D. 4984-00-95					
CTH JJ, WEST OF CTH E	1, PHASE 2	340	---	820	---
CTH JJ, EAST OF CTH E	1, PHASE 2	300	---	160	---
CTH E, SOUTH OF CTH JJ	1, PHASE 2	410	210	---	---
CTH E, NORTH OF CTH JJ	1, PHASE 2	470	260	---	---
CTH JJ, WEST OF CTH E	2	---	---	1 140	---
CTH JJ, EAST OF CTH E	2	---	---	610	---
CTH E, SOUTH OF CTH JJ	2	---	---	360	---
CTH E, NORTH OF CTH JJ	2	---	---	600	190
TOTALS		1 520	470	3 690	190

TEMPORARY PAVEMENT MARKING, 100mm TOTAL = 1 990m
TEMPORARY PAVEMENT MARKING, 100mm, REMOVABLE TAPE TOTAL = 3 880m

GEOTEXTILE FABRIC, TYPE SAS

STATION TO STATION	LOCATION	sm
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1 'NB'+055.5 - 1 'NB'+180	CTH E	1 900
1 'NB'+180 - 1 'NB'+360	CTH E	2 850
1 'NB'+360 - 1 'NB'+540	CTH E	3 020
1 'NB'+540 - 1 'NB'+720	CTH E	2 390
1 'NB'+720 - 1 'NB'+900	CTH E	2 390
1 'NB'+900 - 2 'NB'+080	CTH E	2 390
2 'NB'+080 - 2 'NB'+260	CTH E	3 500
2 'NB'+260 - 2 'NB'+440	CTH E	3 330
2 'NB'+440 - 2 'NB'+500	CTH E	1 410
PROJECT TOTAL		23 180
PROJECT I.D. 4984-00-95		
2 'NB'+500 - 2 'NB'+620	CTH E	2 820
2 'NB'+620 - 2 'NB'+800	CTH E	4 800
2 'NB'+800 - 2 'NB'+980	CTH E	2 800
2 'NB'+980 - 3 'NB'+055	CTH E	1 400
PROJECT TOTAL		11 820
TOTAL		35 000

CONTROL CABINET BASE, TYPE 9

STATION	LOCATION	EACH
PROJECT I.D. 4984-00-95		
2 'NB'+645. 24m, RT	CTH E	1

ELECTRICAL WIRE,LIGHTING

FROM	TO	TYPE UF CABLE 2 CONDUCTOR NO. 10 m	BASE TO HEAD ELECTRICAL WIRE LIGHTING NO. 12 m
PROJECT I.D. 4984-00-95			
CB	SB2	110	30
SB2	SB5	140	30
CB	SB11	75	30
SB11	SB8	140	30
TOTALS		465	120

EROSION MAT, CLASS I, TYPE A

STATION TO STATION	LOCATION	DELIVERED sm	INSTALLED sm
PROJECT I.D. 4984-00-97 CATEGORY 010			
1'NB' + 055.5 - 1'NB' + 210	CTH E	5	5
PROJECT I.D. 4984-00-95			
1'EB' + 250 - 1'EB' + 370	CTH JJ	10	10
TOTALS		15	15

NON-METALLIC CONDUIT, SCHEDULE 80

FROM	TO	50mm m	75mm m	100mm m
PROJECT I.D. 4984-00-97 CATEGORY 010				
CTH E & EVERGREEN				
PB1	PB2	---	18.5	---
PB2	PB3	---	10.0	---
SUBTOTALS		0	28.5	0
CTH E & ASHBURY				
PB1	PB2	---	18.0	0
PB2	PB3	---	14.0	0
PB3	PB4	---	15.5	0
PB4	PB5	---	11.5	0
PB5	PB6	---	15.5	0
PB6	PB7	---	19.0	0
PB7	PB8	---	12.5	0
PB8	PB9	---	15.5	0
PB9	PB10	---	12.0	0
PB10	PB1	---	14.0	0
SUBTOTALS		0	147.5	0
PROJECT TOTALS		0.0	176.0	0
PROJECT I.D. 4984-00-95				
CTH E & CTH JJ				
CB	PB1	---	20.0	---
PB1	PB2	---	---	19.0
PB1	SB1	5.0	---	---
PB1	SB13	3.0	---	---
PB2	PB3	---	---	11.0
PB2	SB2	1.5	---	---
PB3	PB4	---	10.0	---
PB3	SB3	2.0	---	---
PB4	PB5	---	14.0	---
PB4	SB4	1.5	---	---
PB5	PB6	---	12.0	---
PB5	SB5	2.0	---	---
PB6	PB7	---	10.0	---
PB6	SB6	2.0	---	---
PB7	PB8	---	16.0	---
PB7	SB7	1.5	---	---
PB8	PB9	---	11.0	---
PB8	SB8	1.5	---	---
PB9	PB10	---	11.0	---
PB9	SB9	2.5	---	---
PB10	PB11	---	---	15.0
PB10	SB10	2.0	---	---
PB11	PB12	---	---	10.0
PB11	SB11	1.5	---	---
PB12	CB	---	12.0	---
PB12	SB12	2.0	---	---
PROJECT TOTALS		28.0	116.0	55.0
TOTALS		28.0	292.0	55.0

PLOT DATE: 10/18/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
FILE NAME: E1339A98/SHEETS /PLAN /MOO5 .2DG TECH/ENGR: KRE/SDC
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 02/02/00
LEVELS ON 50,51, 56,57, 59,

SIGNS, TYPE II AND WOOD POSTS (SHEET 1 OF 2)

SIGN NO.	STATION	LOCATION	CODE	L X H	SIGNS TYPE II sm	WOOD POSTS 4.3m EACH	WOOD POSTS 4.9m EACH	REMARKS
PROJECT I.D. 4984-00-97								
CATEGORY 010								
10	1'NB'+057.1, 22.2m RT	CTH E	R1-1	750mm x 750mm	0.48	---	1	MOUNT ON SAME POST AS #10
11	1'NB'+057.1, 22.2m RT	CTH E	R6-3A	600mm x 450mm	0.28	---	---	
12	1'NB'+069.1, 1.2m LT	CTH E	R4-7	600mm x 750mm	0.45	1	---	
13	1'SB'+080, 8.3m LT	CTH E	D4-2L	900mm x 1200mm	1.11	---	1	35 MPH
14	1'NB'+100, 8.2m RT	CTH E	R2-1	600mm x 750mm	0.46	1	---	
15	1'NB'+102, 1.2m LT	CTH E	R3-55L	600mm x 750mm	0.45	1	---	
22	1'NB'+249, 11.2m RT	CTH E	R5-1	750mm x 750mm	0.56	---	---	MOUNT ON SAME POST AS #23
23	1'NB'+249.7, 11.2m RT	CTH E	R3-55R	600mm x 750mm	0.45	---	1	
24	1'NB'+271, 1.8m LT	CTH E	R4-7	600mm x 750mm	0.45	1	---	
25	1'SB'+290, 8.0m LT	CTH E	R6-2L	450mm x 600mm	0.27	1	---	
26	4+014.9, 7.4m LT	SILVER LEAF COURT	R1-1	750mm x 750mm	0.48	---	1	MOUNT ON SAME POST AS #26
27	4+014.9, 7.4m LT	SILVER LEAF COURT	R6-3A	600mm x 450mm	0.28	---	---	
28	1'NB'+309.7, 1.2m LT	CTH E	R4-7	600mm x 750mm	0.45	1	---	
29	1'NB'+334.7, 1.2m LT	CTH E	R3-55L	600mm x 750mm	0.46	1	---	
31	1'NB'+381.3, 4.2m LT	CTH E	R3-55L	600mm x 750mm	0.45	1	---	
35	1'SB'+452.4, 1.2m RT	CTH E	R4-7	600mm x 750mm	0.46	1	---	
36	1'NB'+490, 2.5m LT	CTH E	R4-7	600mm x 750mm	0.46	1	---	
37	1'SB'+505.4, 11.2m LT	CTH E	R3-55R	600mm x 750mm	0.45	---	1	
38	1'SB'+505.4, 11.2m LT	CTH E	R5-1	750mm x 750mm	0.56	---	---	MOUNT ON SAME POST AS #37
55	1'NB'+900, 8.2m RT	CTH E	S1-1	750mm x 750mm	0.44	1	---	
60	2'NB'+000, 8.2m RT	CTH E	S4-51	600mm x 1200mm	0.72	---	1	
61	2'SB'+106.8, 1.2m RT	CTH E	R3-55L	600mm x 750mm	0.45	1	---	
62	2'NB'+108.6, 11.2 RT	CTH E	R3-55R	600mm x 750mm	0.45	1	---	
63	2'SB'+132.4, 1.2m RT	CTH E	R4-7	600mm x 750mm	0.45	1	---	
63A	2'NB'+130, 11.2m RT	CTH E	R5.1	750mm x 750mm	0.56	1	---	
64	2+164.6, 9.0m RT	ASHBURY DRIVE	R1-1	750mm x 750mm	0.48	---	1	MOUNT ON SAME POST AS #65
65	2+164.6, 9.0m RT	ASHBURY DRIVE	R6-3	600mm x 450mm	0.28	---	---	
66	2+199.3, 4.8m LT	ASHBURY DRIVE	R1-1	750mm x 750mm	0.48	---	1	
67	2+199.3, 4.8m LT	ASHBURY DRIVE	R6-3	600mm x 450mm	0.28	---	---	MOUNT ON SAME POST AS #67
68	1'NB'+178, 1.2m LT	CTH E	R4-7	600mm x 750mm	0.45	1	---	
69	2'SB'+193, 11.2m LT	CTH E	R3-55R	600mm x 750mm	0.45	1	---	
70	2'NB'+204.5, 1.2m LT	CTH E	R3-55L	600mm x 750mm	0.45	1	---	
71	2'NB'+205, 8.2 m RT	CTH E	S4-51	600mm x 1200mm	0.72	1	---	
72	2'NB'+260, 8.2m RT	CTH E	R3-9B	600mm x 900mm	0.54	1	---	
73	2'SB'+320, 8.2m LT	CTH E	R3-9B	600mm x 900mm	0.54	1	---	35 MPH
74	2'SB'+350, 8.2m LT	CTH E	R2-1	600mm x 750mm	0.45	1	---	
75	4+986, 6.7m RT	MEMORY LANE	R1-1	750mm x 750mm	0.48	1	---	
76	2'NB'+380, 8.5m RT	CTH E	W3-3	900mm x 900mm	0.81	---	1	25 MPH
77	4+960, 9.5m LT	MEMORY LANE	R2-1	600mm x 750mm	0.45	1	---	
78	2'NB'+420, 8.2m RT	CTH E	J1-1	---	0.56	1	---	
79	2'NB'+461.4, 15.4m RT	CTH E	R1-1	750mm x 750mm	0.48	1	---	
MOVING SIGNS							1	
				SUBTOTALS	19.98	26	10	
CATEGORY 020								
200	2+220, 8.3m RT	ASHBURY DRIVE	W14-1	750mm x 750mm	0.56	---	1	NO OUTLET
201	2+220, 8.3m RT	ASHBURY DRIVE	R8-3A*	600mm x 600mm	0.36	---	---	MOUNT ON SAME POST AS #200
202	2+250, 5.1m LT	ASHBURY DRIVE	R7-51L	450mm x 600mm	0.28	1	---	
				SUBTOTALS	1.20	1	1	
				PROJECT TOTALS	21.18	27	11	(continued on next page)

* SIGN SHALL BE IN ACCORDANCE WITH THE FHWA MANUAL OF STANDARD HIGHWAY SIGNS.

LOOP DETECTORS

LOOP NO.	CONDUIT m	WIRE m	LEAD IN CABLE m	NO. TURNS
PROJECT I.D. 4984-00-95				
CTH E & CTH JJ				
21	13.0	42	57	4
22	16.0	48	57	4
41	10.5	38	70	4
42	15.0	47	55	4
43	11.0	39	55	4
61	19.5	53	14	4
62	16.5	50	14	4
81	12.5	42	20	4
82	15.0	47	36	4
83	11.0	39	36	4
TOTALS	140.0	445	414	

BACKPLATES, 3-SECTION, 300mm, SPECIAL

	EACH
PROJECT I.D. 4984-00-95	
CTH E & CTH JJ INTERSECTION	4

PULL BOXES

PULL BOX NUMBER	LOCATION	STEEL 600 mm X 1200 mm EACH
PROJECT I.D. 4984-00-97		
CATEGORY 010		
CTH E & EVERGREEN		
PB2	1 'NB'+077, 1.2m, LT	1
CTH E & ASHBURY		
PB1	2 'NB'+150, 22.5m, LT	1
PB2	2 'NB'+168.5, 23m, LT	1
PB3	2 'NB'+178, 18.8m, LT	1
PB4	2 'NB'+178.5, 1.2m, LT	1
PB5	2 'NB'+175, 9.5m, LT	1
PB6	2 'NB'+162.5, 18m, RT	1
PB7	2 'NB'+143.5, 18m, RT	1
PB8	2 'NB'+132.5, 10.8m, RT	1
PB9	2 'NB'+132.5, 4.2m, LT	1
PB10	2 'NB'+141.5, 18.0m, LT	1
	PROJECT TOTAL	11
PROJECT I.D. 4984-00-95		
CTH E & CTH JJ		
PB1	2 'NB'+642.8, 14.8m, RT	1
PB2	2 'NB'+641, 4.2m, LT	1
PB3	2 'NB'+643, 15m, LT	1
PB4	2 'NB'+650, 20.7m, LT	1
PB5	2 'NB'+664, 23.7m, LT	1
PB6	2 'NB'+676, 23.7m, LT	1
PB7	2 'NB'+683, 17.5m, LT	1
PB8	2 'NB'+684.8, 1.3m, LT	1
PB9	2 'NB'+683.6, 9.5m, RT	1
PB10	2 'NB'+676, 16.6m, RT	1
PB11	2 'NB'+661, 21.4m, RT	1
PB12	2 'NB'+651.4, 21.5m, RT	1
	SUBTOTAL	12
	TOTAL	23

TRAFFIC SIGNAL CABLE, NO. 14

FROM	TO	15 COND m	HEAD NO.	BASE TO HEAD 7 COND. m
PROJECT I.D. 4984-00-95				
CB	SB1	20	4	6
CB	SB2	37	5	6
---	---	---	6	6
CB	SB3	51	7	12
			8	6
CB	SB4	62	14	6
CB	SB5	78	15	6
---	---	---	16	6
CB	SB6	92	17	12
---	---	---	18	6
CB	SB7	87	9	6
CB	SB8	68	1	6
---	---	---	10	6
CB	SB9	56	2	12
---	---	---	3	6
CB	SB10	42	19	6
CB	SB11	25	11	6
---	---	---	20	6
CB	SB12	14	12	12
---	---	---	13	6
CB	SB13	18	21.25	6
	TOTAL	650		150

COLOR CODE

NB & WB	SB & EB
RED = RED	RED = RED
YELLOW = ORANGE	YELLOW = ORANGE W/ BLACK
GREEN = GREEN	GREEN = GREEN W/ BLACK
LT. GREEN = BLUE	LT. GREEN = BLUE W/ BLACK
LT. YELLOW = BLACK	LT. YELLOW = BLACK W/ WHITE

ELECTRICAL WIRE, TRAFFIC SIGNALS, NO. 10

FROM	TO	GROUNDED CONDUCTOR m	EQUIPMENT GROUNDING CONDUCTOR m
PROJECT I.D. 4984-00-95			
CTH E & CTH JJ			
CB	SB1	20	20
SB1	SB13	12	12
SB13	SB2	30	30
SB13	PB1	---	6
SB2	SB3	21	21
SB2	PB2	---	4
SB3	SB4	19	19
SB3	PB3	---	4
SB4	SB5	23	23
SB4	PB4	---	4
SB5	SB6	21	21
SB5	PB5	---	4
SB6	SB7	19	19
SB6	PB6	---	4
SB7	SB8	25	25
SB7	PB7	---	4
SB8	SB9	19	19
SB8	PB8	---	4
SB9	SB10	20	20
SB9	PB9	---	4
SB10	SB11	24	24
SB10	PB10	---	4
SB11	SB12	19	19
SB11	PB11	---	4
SB12	CB	13	13
SB12	PB12	---	4
	TOTAL	285	335
PROJECT TOTAL = 620			

SEALING JOINTS

STATION TO STATION	LOCATION	sm
PROJECT I.D. 4984-00-97		
CATEGORY 020		
1 'NB'+055.5 - 1 'NB'+180	CTH E	2 205
1 'NB'+180 - 1 'NB'+360	CTH E	3 525
1 'NB'+360 - 1 'NB'+540	CTH E	3 445
1 'NB'+540 - 1 'NB'+720	CTH E	2 820
1 'NB'+720 - 1 'NB'+900	CTH E	2 820
1 'NB'+900 - 2 'NB'+080	CTH E	2 820
2 'NB'+080 - 2 'NB'+260	CTH E	4 230
2 'NB'+260 - 2 'NB'+440	CTH E	3 785
2 'NB'+440 - 2 'NB'+500	CTH E	1 510
2+081.7 - 2+152.4	ASHBURY DRIVE	815
2+210 - 2+277.4	ASHBURY DRIVE	765
	PROJECT TOTAL	28 740
PROJECT I.D. 4984-00-95		
2 'NB'+500 - 2 'NB'+620	CTH E	2 320
2 'NB'+620 - 2 'NB'+782.6	CTH E	4 105
1 'EB'+140 - 1 'EB'+300	CTH JJ	1 935
	PROJECT TOTAL	8 360
	TOTAL	37 100

TRAFFIC SIGNAL FACES (AND BACKPLATES)

LOCATION	5-300mm VERT EACH	BACKPLATES 5-SECTION 300mm EACH
PROJECT I.D. 4984-00-95		
CTH E/CTH JJ INTERSECTION	8	8*

* NON-BID ITEM, FOR INFORMATION ONLY

SIGNS, TYPE II AND WOOD POSTS (SHEET 2 OF 2)

SIGN NO.	STATION	LOCATION	CODE	L X H	SIGNS TYPE II sm	WOOD POSTS 4.3m EACH	WOOD POSTS 4.9m EACH	REMARKS
PROJECT I.D. 4984-00-95								
81	2'SB'+540. 8.2m LT	CTH E	R3-9B	600mm x 900mm	0.54	1	---	
82	2'SB'+583. 1.2m RT	CTH E	R3-55L	600mm x 750mm	0.45	1	---	
83	2'NB'+602.5. 11.2m RT	CTH E	R3-55R	600mm x 750mm	0.45	1	---	
84	2'SB'+620. 8.2m LT	CTH E	S4-51	600mm x 1200mm	0.72	---	1	
85	2'NB'+639. 4.2m LT	CTH E	R4-7	600mm x 750mm	0.48	---	---	MOUNT ON TRAFFIC SIGNAL POLE
86	2'NB'+638.5. 10.8m RT	CTH E	J13-1	---	0.64	---	---	MOUNT ON TRAFFIC SIGNAL POLE
86A	2'NB'+638.5. 10.8m RT	CTH E	R1-1 (FOLDING)	750mm X 750mm	0.56	---	---	MOUNT ON TRAFFIC SIGNAL POLE
86B	2'SB'+641. 9.6m LT	CTH E	R10-4X	225mm x 300mm	0.07	---	---	BALLARD. MOUNT ON TRAFFIC SIGNAL POLE
86C	2'SB'+641. 9.6m LT	CTH E	R10-4X	225mm x 300mm	0.07	---	---	CTH JJ. MOUNT ON TRAFFIC SIGNAL POLE
87	1'EB'+199.7. 10.5m RT	CTH JJ	J13-1	---	0.64	---	---	MOUNT ON TRAFFIC SIGNAL POLE
87A	1'EB'+199.7. 10.5m RT	CTH JJ	R1-1 (FOLDING)	750MM X 750mm	0.56	---	---	MOUNT ON TRAFFIC SIGNAL POLE
88	2'NB'+645.5. 15.3m RT	CTH E	R10-4X	225mm x 300mm	0.07	---	---	BALLARD. MOUNT ON TRAFFIC SIGNAL POLE
88A	2'NB'+645.5. 15.3m RT	CTH E	R5-1	750mm x 750mm	0.56	---	---	MOUNT ON TRAFFIC SIGNAL POLE
89	2'NB'+645.5. 15.3m RT	CTH E	R10-4X	225mm x 300mm	0.07	---	---	CTH JJ. MOUNT ON TRAFFIC SIGNAL POLE
90	1'EB'+241.7. 1.3m LT	CTH JJ	R4-7	600mm x 750mm	0.48	---	---	MOUNT ON TRAFFIC SIGNAL POLE
91	1'EB'+196.5. 4.6m LT	CTH JJ	R4-7	600mm x 750mm	0.48	---	---	MOUNT ON TRAFFIC SIGNAL POLE
92	1'WB'+240.6. 9.3m LT	CTH JJ	J13-1	---	0.64	---	---	MOUNT ON TRAFFIC SIGNAL POLE
92A	1'WB'+240.6. 9.3m LT	CTH JJ	R1-1 (FOLDING)	750mm X 750mm	0.56	---	---	MOUNT ON TRAFFIC SIGNAL POLE
93	2'NB'+684.6. 9.8m RT	CTH E	R10-4X	225mm x 300mm	0.07	---	---	BALLARD. MOUNT ON TRAFFIC SIGNAL POLE
94	2'NB'+684.6. 9.8m RT	CTH E	R10-4X	225mm x 300mm	0.07	---	---	CTH JJ. MOUNT ON TRAFFIC SIGNAL POLE
95	2'SB'+685. 11.3m LT	CTH E	J13-1	---	0.64	---	---	MOUNT ON TRAFFIC SIGNAL POLE
95A	2'SB'+685. 11.3m LT	CTH E	R1-1 (FOLDING)	750mm X 750mm	0.56	---	---	MOUNT ON TRAFFIC SIGNAL POLE
95B	2'SB'+685. 11.3m LT	CTH E	R5-1	750mm X 750mm	0.56	---	---	MOUNT ON TRAFFIC SIGNAL POLE
96	2'SB'+685. 11.3m LT	CTH E	R10-4X	225mm x 300mm	0.07	---	---	BALLARD. MOUNT ON TRAFFIC SIGNAL POLE
97	2'SB'+685. 11.3m LT	CTH E	R10-4X	225mm x 300mm	0.07	---	---	CTH JJ
98	2'NB'+686. 1.2m LT	CTH E	R4-7	600mm x 750mm	0.48	---	---	MOUNT ON TRAFFIC SIGNAL POLE
99	2'NB'+713. 1.2m LT	CTH E	R3-55L	600mm x 750mm	0.45	1	---	
100	2'NB'+860. 8.8m RT	CTH E	R2-1	600mm x 750mm	0.45	1	---	45 MPH
101	2'SB'+726. 8.2m LT	CTH E	R3-55R	600mm x 750mm	0.45	1	---	
102	2'SB'+736. 1.2m RT	CTH E	R3-55L	600mm x 750mm	0.45	1	---	
103	2'SB'+754.4. 1.2m RT	CTH E	R4-7	600mm x 750mm	0.48	1	---	
104	2'NB'+760. 8.5m RT	CTH E	W4-2R	900mm x 900mm	0.81	---	1	
106	2'SB'+820. 10.0m LT	CTH E	S4-51	600mm x 1200mm	0.72	---	1	
300	1'EB'+070. 8.2m RT	CTH JJ	S4-51	600mm x 1200mm	0.72	---	1	
301	1'WB'+140. 8.4m LT	CTH JJ	W11-3	750mm x 750mm	0.56	---	1	
302	1'WB'+140. 8.4m LT	CTH JJ	W57-51	750mm x 375mm	0.28	---	---	MOUNT ON SAME POST AS #301, 1/2 MILE
303	1'EB'+154. 8.0m RT	CTH JJ	R3-2	600mm x 600mm	0.36	1	---	
303A	1'WB'+161. 1.2m RT	CTH JJ	R4-7	600mm x 750mm	0.48	---	1	MOUNT ON SAME POST AS #304
304	1'WB'+161. 1.2m RT	CTH JJ	R3-55L	600mm x 750mm	0.45	---	1	
305	1'WB'+180. 8.2m LT	CTH JJ	R2-1	600mm x 750mm	0.45	1	---	35 MPH
306	1'EB'+269.7. 1.2m LT	CTH JJ	R3-55L	600mm x 750mm	0.45	1	---	
307	1'EB'+280. 8.2m RT	CTH JJ	S4-51	600mm x 1200mm	0.72	---	1	
308	1'EB'+290. 2.5m LT	CTH JJ	R4-7	600mm x 750mm	0.48	1	---	
				PROJECT TOTALS	19.32	12	7	
				TOTALS	40.50	39	18	

TRAFFIC SIGNALS

SIGNAL BASE NO.	CONCRETE BASES TYPE 1 EACH	CONCRETE BASES TYPE 2 EACH	PEDESTAL BASES EACH	TRANSFORMER BASES EACH	LUMINAIRE AND ARM EACH	POLES TYPE 2 EACH	POLES TYPE 3 EACH	TRAFFIC SIGNAL STANDARDS 2.7 m EACH	TRAFFIC SIGNAL STANDARDS 4.0 m EACH	TROMBONE ARMS 4.6 m EACH	PEDESTRIAN FACES 300 mm EACH	PEDESTRIAN PUSH BUTTONS EACH
PROJECT I.D. 4984-00-95												
SB1	1	---	SALV	---	---	---	---	---	SALV	---	---	---
SB2	---	1	---	SALV	SALV	---	SALV	---	---	---	---	---
SB3	---	1	---	1	---	1	---	---	---	SALV	1	2
SB4	1	---	SALV	---	---	---	---	---	SALV	---	1	---
SB5	---	1	---	SALV	SALV	---	SALV	---	---	---	---	---
SB6	---	1	---	1	---	1	---	---	---	SALV	1	---
SB7	1	---	SALV	---	---	---	---	---	SALV	---	1	2
SB8	---	1	---	SALV	SALV	---	SALV	---	---	---	---	---
SB9	---	1	---	1	---	1	---	---	---	SALV	1	2
SB10	1	---	SALV	---	---	---	---	---	SALV	---	1	---
SB11	---	1	---	SALV	SALV	---	SALV	---	---	---	---	---
SB12	---	1	---	1	---	1	---	---	---	SALV	---	---
SB13	1	---	1	---	---	---	---	1	---	---	2	2
TOTALS	5	8	1	4	0	4	0	1	0	0	8	8

(SALV = PART OF BID ITEM 90004B. SALVAGING EXISTING TRAFFIC SIGNAL EQUIPMENT. CTH E AND CTH JJ INTERSECTION)

SAWING EXISTING PAVEMENT

STATION	LOCATION	m
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1 'NB'+125. RT	DRIVEWAY	5.0
4+050	SILVER LEAF DRIVE	10.0
1 'SB'+478. LT	DRIVEWAY	10.0
1 'SB'+518. LT	DRIVEWAY	4.0
4+940.8	MEMORY LANE	7.0
2 'NB'+450. RT	DRIVEWAY	23.0
1 'SB'+475. LT	DRIVEWAY	5.0
	SUBTOTAL	64.0
CATERGORY 020		
2+081.1	ASHBURY DRIVE	11.0
2+293.5	ASHBURY DRIVE	23.0
2+288 - 2+293.5	ASHBURY DRIVE	5.0
	SUBTOTAL	39.0
	PROJECT TOTAL	103.0
PROJECT I.D. 4984-00-95		
2 'SB'+532. LT	DRIVEWAY	3.5
2 'NB'+770. RT	DRIVEWAY	7.0
2 'SB'+776. LT	DRIVEWAY	9.0
2 'SB'+835. LT	DRIVEWAY	12.0
2 'SB'+854	CTH E	3.5
2 'NB'+854 - 2 'NB'+863.4	CTH E	10.0
2 'NB'+863.4	CTH E	6.0
2 'NB'+863.4 - 3 'NB'+055	CTH E	192.0
1 'EB'+040	CTH JJ	13.0
1 'WB'+078. LT	DRIVEWAY	4.0
1 'EB'+115. RT	DRIVEWAY	7.0
1 'WB'+130. LT	DRIVEWAY	10.0
1 'WB'+151. LT	DRIVEWAY	9.0
1 'WB'+310. LT	DRIVEWAY	10.0
1 'EB'+320. RT	DRIVEWAY	6.0
1 'EB'+369.7	CTH JJ	15.0
	PROJECT TOTAL	317.0
	TOTAL	420.0

ADJUSTING EXISTING PULL BOX

LOCATION	EACH	COMMENT
PROJECT I.D. 4984-00-97		
CATEGORY 010		
CTH E & EVERGREEN DRIVE		
1 'NB'+077.5. 15m. LT	1	RAISE APPROX. 0.3m
1 'NB'+077. 9.2. RT	1	RAISE APPROX. 0.2m
TOTAL	2	

SALVAGED TRAFFIC SIGNAL FACES AND BACKPLATES

(FOR INFORMAITON ONLY. PART OF BID ITEM 90004B SALVAGING EXISTING TRAFFIC SIGNAL EQUIPMENT. CTH E AND CTH JJ INTERSECTION)

	3-300mm VERT EACH	3-300mm HORIZONTAL EACH	BACKPLATES 3-SECTION 300mm EACH
PROJECT I.D. 4984-00-95			
CTH E & CTH JJ	8	4	8

SAWING CONCRETE PAVEMENT, FULL DEPTH

STATION	LOCATION	m
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1'NB'+055.5	CTH E	30

CONSTRUCTION STAKING

STATION TO STATION	LOCATION	CRUSHED AGGREGATE BASE COURSE SPECIAL m	PRELIMINARY m	SUBGRADE SPECIAL m	CONCRETE PAVEMENT SPECIAL m	CURB, GUTTER, CURB & GUTTER SPECIAL m	STORM SEWER SYSTEM EACH	PIPE CULVERT SPECIAL EACH
PROJECT I.D. 4984-00-97								
CATEGORY 010								
1 'NB'+055.5 - 1 'NB'+180	CTH E	---	249	249	249	---	6	---
1 'NB'+180 - 1 'NB'+360	CTH E	---	360	360	360	---	5	---
1 'NB'+360 - 1 'NB'+540	CTH E	---	360	360	360	---	13	---
1 'NB'+540 - 1 'NB'+720	CTH E	---	360	360	360	---	6	---
1 'NB'+720 - 1 'NB'+900	CTH E	---	360	360	360	---	4	---
1 'NB'+900 - 2 'NB'+080	CTH E	---	360	360	360	---	6	---
2 'NB'+080 - 2 'NB'+260	CTH E	---	360	360	360	---	10	---
2 'NB'+260 - 2 'NB'+440	CTH E	---	360	360	360	---	11	---
2 'NB'+440 - 2 'NB'+500	CTH E	---	120	120	120	8	1	1
	SILVER LEAF COURT	21	50	50	29	---	2	---
	MEMORY LANE	41	60	60	19	---	---	---
	SUBTOTALS	62	2 999	2 999	2 937	8	64	1
CATEGORY 020								
2+081.7 - 2+240	ASHBURY DRIVE	---	159	159	159	---	2	---
2+240 - 2+293.5	ASHBURY DRIVE	16	54	54	38	31	2	---
	SUBTOTALS	16	213	213	197	31	4	0
	PROJECT TOTALS	78	3 212	3 212	3 134	39	68	1
PROJECT I.D. 4984-00-95								
CATEGORY 020								
2 'NB'+500 - 2 'NB'+620	CTH E	---	240	240	240	---	12	---
2 'NB'+620 - 2 'NB'+800	CTH E	22	360	360	338	25	9	---
2 'NB'+800 - 2 'NB'+980	CTH E	213	213	213	---	64	---	2
2 'NB'+980 - 3 'NB'+055	CTH E	75	75	75	---	---	---	---
1 'EB'+040 - 1 'EB'+180	CTH JJ	163	261	261	98	185	2	---
1 'EB'+180 - 1 'EB'+360	CTH JJ	120	360	360	240	47	9	---
1 'EB'+360 - 1 'EB'+369.7	CTH JJ	20	20	20	---	---	---	---
	PROJECT TOTALS	613	1 529	1 529	916	321	32	2
	TOTALS	691	4 741	4 741	4 050	360	100	3

INLET PROTECTION TYPE C

STRUCTURE NO.	STATION	LOCATION	EACH
PROJECT I.D. 4984-00-97			
CATEGORY 010			
1	1'NB'+072. 7.05m RT	CTH E	1
2	1'SB'+119. 1.44m RT	CTH E	1
3	1'SB'+170. 7.05m LT	CTH E	1
4	1'SB'+170. 0.15m RT	CTH E	1
5	1'NB'+170. 0.15m LT	CTH E	1
6	1'NB'+170. 7.05m RT	CTH E	1
7	1'NB'+225. 7.58m RT	CTH E	1
8	4+028. 4.88m RT	SILVER LEAF CT	1
9	4+028. 4.88m LT	SILVER LEAF CT	1
11	1'SB'+350. 1.62m RT	CTH E	1
12	1'NB'+350. 0.15m LT	CTH E	1
13	1'NB'+350. 7.05m RT	CTH E	1
14	1'SB'+380. 7.05m LT	CTH E	1
15	1'SB'+380. 0.15m RT	CTH E	1
16	1'NB'+380. 3.02m LT	CTH E	1
17	1'NB'+380. 7.05m RT	CTH E	1
18	1'SB'+382. 7.05m LT	CTH E	1
20	1'NB'+440. 7.05m RT	CTH E	1
22	1'SB'+490.9. 10.05m LT	CTH E	1
23	1'SB'+496. 0.15m RT	CTH E	1
24	1'NB'+496. 0.15m LT	CTH E	1
25	1'NB'+496. 7.05m RT	CTH E	1
27	1'SB'+648. 7.05m LT	CTH E	1
28	1'NB'+648. 7.05m RT	CTH E	1
29	1'SB'+650. 7.05m LT	CTH E	1
30	1'SB'+650. 0.15m RT	CTH E	1
31	1'NB'+650. 0.15m LT	CTH E	1
32	1'NB'+650. 7.05m RT	CTH E	1
35	1'SB'+880. 7.05m LT	CTH E	1
36	1'SB'+880. 0.15m RT	CTH E	1
37	1'NB'+880. 0.15m LT	CTH E	1
38	1'NB'+880. 7.05m RT	CTH E	1
40	1'SB'+980. 7.05m LT	CTH E	1
40A	1'SB'+982. 7.05m LT	CTH E	1
41	1'SB'+980. 0.15m RT	CTH E	1
42	1'NB'+980. 0.15m RT	CTH E	1
43	1'NB'+980. 7.05m RT	CTH E	1
43A	1'NB'+982. 7.05m RT	CTH E	1
48	2+165.2. 9.75m LT	ASHBURY DRIVE	1
49	2+193.6. 8.60m LT	ASHBURY DRIVE	1
59	2'SB'+265. 7.05m LT	CTH E	1
60	2'SB'+263. 7.05m LT	CTH E	1
61	2'NB'+265. 7.05m RT	CTH E	1

INLET PROTECTION TYPE C (continued)

STRUCTURE NO.	STATION	LOCATION	EACH
62	2'NB'+263. 7.05m RT	CTH E	1
68	2'SB'+404.2. 10.01m LT	CTH E	1
	SUBTOTAL		45
CATEGORY 020			
46	2+140. 6.09m RT	ASHBURY DRIVE	1
47	2+140. 4.57m LT	ASHBURY DRIVE	1
50	2+259.1. 3.88m LT	ASHBURY DRIVE	1
51	2+259.1. 6.79m RT	ASHBURY DRIVE	1
	SUBTOTAL		4
	PROJECT TOTAL		49
72	2'SB'+510. 7.05m LT	CTH E	1
73	2'SB'+512. 7.05m LT	CTH E	1
74	2'NB'+523. 7.05m RT	CTH E	1
75	2'NB'+525. 7.05m RT	CTH E	1
77	2'SB'+585. 7.05m LT	CTH E	1
77A	2'SB'+587. 7.05m LT	CTH E	1
78	2'SB'+585. 0.15m RT	CTH E	1
79	2'NB'+585. 3.15m LT	CTH E	1
80	2'NB'+585. 8.35m RT	CTH E	1
80A	2'NB'+587. 8.55m RT	CTH E	1
82	2'SB'+688.5. 13.05m LT	CTH E	1
83	2'SB'+688.9. 3.15m RT	CTH E	1
84	2'NB'+688.9. 3.15m LT	CTH E	1
85	2'NB'+688.9. 7.05m RT	CTH E	1
86	2'SB'+723.2. 13.05m LT	CTH E	1
87	2'SB'+725.2. 13.05m LT	CTH E	1
88	2'NB'+723.2. 7.05m RT	CTH E	1
89	2'NB'+725.2. 7.05m RT	CTH E	1
110	1'WB'+143. 7.05m LT	CTH JJ	1
111	1'EB'+143. 7.05m RT	CTH JJ	1
112	1'WB'+202.3. 11.05m LT	CTH JJ	1
113	1'WB'+193.5. 0.15m RT	CTH JJ	1
114	1'EB'+193.5. 3.45m LT	CTH JJ	1
115	1'EB'+193.5. 7.05m RT	CTH JJ	1
116	1'WB'+260. 7.05m LT	CTH JJ	1
117	1'WB'+260. 3.45m RT	CTH JJ	1
118	1'EB'+260. 0.15m LT	CTH JJ	1
119	1'EB'+260. 7.05m RT	CTH JJ	1
	PROJECT TOTAL		28
	TOTAL		77

150 mm MINI STORM SEWER

STATION TO STATION	LOCATION	150 mm m	INVERT ELEVATION	DISCHARGE ELEVATION	REMARKS
PROJECT I.D. 4984-00-95					
2' SB'+485 - 2 'SB'+511. LT	CTH E	27	---	---	CONNECT TO EXIST INLET
2' NB'+625 - 2 'NB'+639. RT	CTH E	14	234.03+/-	233.590	CONNECT TO STR #81
1' EB'+260 - 1 'EB'+270. RT	CTH JJ	10	234.34+/-	234.100	CONNECT TO STR # 119
	TOTALS	51			

RECONSTRUCTING AND ADJUSTING MANHOLE COVERS, SPECIAL (SANITARY SEWER)

STATION	LOCATION	TYPE	ADJUSTING MANHOLE COVERS SPECIAL EACH	RECONSTRUCTING MANHOLE SPECIAL EACH	EXISTING ELEVATION	FINAL ELEVATION
PROJECT ID 4984-00-97						
CATEGORY 020						
1'NB' +149 1.5m LT	CTH E	SANITARY	---	1	229.600	228.987
1'NB' +249 1.8m LT	CTH E	SANITARY	---	1	229.636	229.241
1'NB' +286.5 2.0m LT	CTH E	SANITARY	---	1	229.067	229.600
4+036.8 3.0m LT	SILVER LEAF COURT	SANITARY	1	---	228.932	228.945
1'NB' +341 2.0m LT	CTH E	SANITARY	---	1	---	228.960
1'NB' +432 2.0m LT	CTH E	SANITARY	---	1	229.748	229.187
1'NB' +505.5 1.5m LT	CTH E	SANITARY	1	---	229.627	229.629
1'SB' +505.5 16.0m LT	CTH E	SANITARY	1	---	228.646	228.856
1'NB' +627 1.5m LT	CTH E	SANITARY	---	1	229.942	229.626
1'NB' +749 2.0m LT	CTH E	SANITARY	1	---	---	229.937
1'NB' +871 1.8m LT	CTH E	SANITARY	---	---	230.053	229.951
1'NB' +992 2.0m LT	CTH E	SANITARY	---	---	230.720	230.841
2'NB' +115 2.0m LT	CTH E	SANITARY	---	---	231.718	231.696
2'NB' +254 2.0m LT	CTH E	SANITARY	1	---	232.432	232.613
2'NB' +322 2.0m LT	CTH E	SANITARY	1	---	232.803	233.027
2'NB' +386.5 2.0m LT	CTH E	SANITARY	1	---	233.330	233.468
2'NB' +463 1.5m LT	CTH E	SANITARY	---	1	233.880	233.446
	PROJECT TOTALS		7	7		
PROJECT ID 4984-00-95						
2'NB' +517 1.5m LT	CTH E	SANITARY	1	---	234.322	234.214
2'NB' +589 2.0m LT	CTH E	SANITARY	1	---	234.718	234.612
2'NB' +662 2.0m LT	CTH E	SANITARY	1	---	235.200	235.395
2'NB' +784 1.8m LT	CTH E	SANITARY	---	1	236.330	236.047
	PROJECT TOTALS		3	1		
	TOTALS		10	8		

CONCRETE MEDIAN SLOPED NOSE

STATION	LOCATION	sm
PROJECT I.D. 4984-00-97		
CATEGORY 010		
1'NB'+064. LT	CTH E	3.5
1'NB'+273. LT	CTH E	3.5
1'NB'+305. LT	CTH E	3.5
1'NB'+455. LT	CTH E	3.5
2'NB'+138. LT	CTH E	3.5
2'NB'+174. LT	CTH E	3.5
	PROJECT TOTA	24.5
PROJECT I.D. 4984-00-95		
2'NB'+644. LT	CTH E	3.5
2'NB'+681. LT	CTH E	3.5
2'NB'+759. LT	CTH E	3.5
1'WB'+202. RT	CTH JJ	3.5
1'EB'+237. LT	CTH JJ	3.5
	PROJECT TOTA	17.5
	TOTAL	42.0

MOBILIZATIONS, EROSION CONTROL

	EROSION CONTROL EACH	EMERGENCY EROSION CONTROL EACH
PROJECT I.D. 4984-00-97 CATEGORY 010	4	3
PROJECT I.D. 4984-00-95	2	2
TOTALS	6	4

PAVEMENT MARKING, EPOXY

STATION TO STATION		LOCATION	100mm CENTERLINE (YELLOW) m	100mm LANE LINE (WHITE) m	100mm EDGE LINE (YELLOW) m	100mm EDGE LINE (WHITE) m	CHANNELIZING 200mm m	STOP LINE 450mm m	DIAGONAL 200mm m	CROSSWALK 150mm m	CROSSWALK 300mm m	CURB RAMP m	CURB m	CONCRETE CORRUGATED MEDIAN sm	ISLAND NOSE EACH	WORDS EACH	ARROWS, TYPE 2 EACH
PROJECT 4984-00-97																	
CATEGORY 010																	
1'NB'+055.5	-1'NB'+210	CTH E	---	42	---	---	---	---	---	---	---	---	11	---	1	---	---
1'SB'+055.5	-1'SB'+210	CTH E	---	42	---	---	38	---	---	---	---	---	---	---	---	1	2
1'NB'+210	-1'NB'+390	CTH E	---	42	---	---	22	---	---	40	---	21	32	---	2	2	1
1'SB'+210	-1'SB'+390	CTH E	---	42	---	---	30	---	---	---	---	---	---	---	---	1	1
1'NB'+390	-1'NB'+570	CTH E	---	42	---	---	66	---	---	45	120	8	34	---	2	1	2
1'SB'+390	-1'SB'+570	CTH E	---	42	---	---	15	---	---	---	---	11	---	---	---	1	1
1+NB'+570	-1'NB'+750	CTH E	---	46	---	---	---	---	---	---	---	---	---	---	---	---	---
1'SB'+570	-1'SB'+750	CTH E	---	46	---	---	---	---	---	---	---	---	---	---	---	---	---
1'NB'+750	-1'NB'+930	CTH E	---	46	---	---	---	---	---	---	---	---	---	---	---	---	---
1'SB'+750	-1'SB'+930	CTH E	---	46	---	---	---	---	---	---	---	---	---	---	---	---	---
1'NB'+930	-2'NB'+110	CTH E	---	42	---	---	5	---	---	---	---	---	---	---	---	---	---
1'SB'+930	-2'SB'+110	CTH E	---	42	---	---	---	---	---	---	---	---	---	---	---	---	---
2'NB'+110	-2'NB'+290	CTH E	16	40	56	---	51	---	---	180	---	33	23	56	2	2	4
2'SB'+110	-2'SB'+290	CTH E	16	39	55	---	47	---	---	---	---	10	---	---	---	2	2
2'NB'+290	-2'NB'+470	CTH E	46	46	180	---	---	---	---	40	---	20	---	---	---	---	2
2'SB'+290	-2'SB'+470	CTH E	60	46	180	---	---	---	---	35	---	12	---	---	---	---	2
2'NB'+470	-2'NB'+500	CTH E	8	8	30	---	---	---	---	---	---	---	---	60	---	---	1
2'SB'+470	-2'SB'+500	CTH E	8	8	30	---	---	---	---	---	---	---	---	---	---	---	1
4+009.6	-4+050	SILVER LEAF COURT	12	---	---	45	---	5	---	---	---	---	---	---	---	---	---
4+941	-4+990	MEMORY LANE	12	---	---	78	---	5	---	---	---	---	---	---	---	---	---
		SUBTOTALS	178	707	531	123	274	10	0	340	120	115	100	116	7	10	19
CATEGORY 020																	
2+081.67	-2+150	ASHBURY DRIVE	70	---	45	---	8	---	17	---	---	---	---	---	---	1	---
2+150	-2+210	ASHBURY DRIVE	40	---	---	---	25	15	25	---	---	---	---	---	---	---	2
2+210	-2+294	ASHBURY DRIVE	72	---	110	---	35	---	---	---	---	---	---	---	---	1	1
		SUBTOTALS	182	0	155	0	68	15	42	0	0	0	0	0	0	2	3
		PROJECT TOTALS	360	707	686	123	342	25	42	340	120	115	100	116	7	12	22
PROJECT I.D. 4984-00-95																	
2'NB'+500	-2'NB'+630	CTH E	12	31	---	---	76	---	---	---	---	---	---	---	---	3	3
2'SB'+500	-2'SB'+630	CTH E	12	31	---	---	---	---	---	---	---	---	---	---	---	---	1
2'NB'+630	-2'NB'+800	CTH E	8	31	40	---	51	14	30	220	---	20	35	---	2	1	4
2'SB'+630	-2'SB'+800	CTH E	8	31	40	11	77	14	---	---	---	10	---	---	---	2	3
2'NB'+800	-2'NB'+980	CTH E	12	---	65	55	---	---	23	---	---	---	---	40	---	---	---
2'SB'+800	-2'SB'+980	CTH E	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2'NB'+980	-3'NB'+055	CTH E	20	---	---	165	---	---	---	---	---	---	---	---	---	---	---
2'SB'+980	-3'SB'+055	CTH E	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1'EB'+040	-1'EB'+190	CTH JJ	8	39	15	---	30	---	3	---	---	---	---	119	---	1	1
1'WB'+040	-1'WB'+190	CTH JJ	15	40	---	---	---	---	---	---	---	---	---	---	---	---	---
1'EB'+190	-1'EB'+250	CTH JJ	---	8	---	---	11	11	---	---	---	---	30	---	2	---	1
1'WB'+190	-1'WB'+250	CTH JJ	---	8	---	---	13	11	---	---	---	---	---	---	---	---	1
1'EB'+250	-1'EB'+370	CTH JJ	31	---	---	41	20	---	2	---	---	---	---	75	---	---	---
1'WB'+250	-1'WB'+370	CTH JJ	31	---	15	51	---	---	---	---	---	---	---	---	---	1	---
CTH JJ, WEST OF CTH E			370	---	---	---	---	---	---	---	---	---	---	---	---	---	---
CTH JJ, EAST OF CTH E			340	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		PROJECT TOTALS	867	219	175	323	278	50	58	220	0	30	65	234	4	8	14
		TOTALS	1 227	926	861	446	620	75	100	560	120	145	165	350	11	20	36

PAVEMENT MARKING, EPOXY, 100mm TOTAL = 3 460 m

REMOVING PAVEMENT MARKINGS

LOCATION	TRAFFIC CONTROL STAGE	m	REMARKS
PROJECT I.D. 4984-00-95			
CTH JJ, WEST OF CTH E	1, PHASE 2	180	YELLOW
CTH JJ, EAST OF CTH E	1, PHASE 2	340	YELLOW
CTH E, STA 2'NB'+430 - 2'NB'+460	1, PHASE 2	60	YELLOW
CTH E, STA 2'NB'+905 - 2'NB'+980	1, PHASE 2	75	WHITE
CTH E, STA 2'NB'+905 - 2'NB'+980	1, PHASE 2	150	YELLOW
CTH JJ, WEST OF CTH E	2	190	YELLOW
	TOTAL	995	

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATION: OMNI ASSOCIATES

FILE NAME: 4984001.DGN

LEVELS ON: 1, 3, 4

STATE LINE
COUNTY LINE
TOWNSHIP AND RANGE LINES
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE

SECTION CORNER

NOTATION FOR COMBUSTIBLE FLUIDS

BRIDGE

FOUNDATION OR RUIN
BUILDING
CEMETERY
R/W MONUMENT
NON-MONUMENTED R/W POINT
IRON PIN
VALVE

CONVENTIONAL SIGNS

FDN.
TYPE
O (TYPE)
GAS (TYPE)

EXISTING R/W LINE
PROPERTY LINE
CORPORATE LIMITS
LOT, TIE AND OTHER MINOR LINES
SLOPE INTERCEPTS
UNDERGROUND FACILITY (GAS, TELEPHONE, ELECTRIC, ETC.)
FENCE
TEMPORARY INTEREST
PERMANENT LIMITED EASEMENT
BEAM GUARD
TRANSMISSION STRUCTURE AND LINE
PEDESTAL
RESTRICTED DEVELOPMENT EASEMENT

P.L.
NAME
SLOPE INTERCEPTS
C (TYPE)
T.P. (TYPE)

STREAM OR RIVER
LAKE
CULVERT (BOX, PIPE OR CATTLE PASS)
RAIL LINE
SIGN
POWER POLE
TELEPHONE POLE
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
NO ACCESS (BY PREVIOUS PROJECT)

(TYPE)
(SMALL SCALE)
(LARGE SCALE)
/ SIGN

WINDMILL
SILO, MANHOLE, VENT, SEPTIC VENT, WELL, ETC.
GAS PUMPS
BUSHES
TREES (DECIDUOUS) (CONIFEROUS)
WOODS
ENCROACHING SIGN
E-1 SIGN

M.H. (TYPE)
G.P.

COMPENSABLE
NON-COMPENSABLE

ABBREVIATIONS

AC	ACRES	R	RADIUS
AP	ACCESS POINT	R.	RANGE
Δ	CENTRAL ANGLE	R/L	REFERENCE LINE
COR	CORNER	R/W	RIGHT OF WAY
CTH	COUNTY TRUNK HIGHWAY	S	SOUTH
D	DEGREE OF CURVE	SEC.	SECTION
E	EAST	SL	SECTION LINE
FND	FOUND	sf	SQUARE FEET
L	LENGTH OF CURVE	STA.	STATION
LC	LONG CHORD	STH	STATE TRUNK HIGHWAY
LCB	LONG CHORD BEARING	T	TANGENT LENGTH OF CURVE
MI	MILE	T.I.	TEMPORARY INTEREST
N	NORTH	USH	UNITED STATES HIGHWAY
O.L.	OUTLOT	W	WEST
PC	POINT OF CURVATURE		
PI	POINT OF INTERSECTION		
P.L.	PROPERTY LINE		
P.L.E.	PERMANENT LIMITED EASEMENT		
PT	POINT OF TANGENCY		

ha	HECTARE
m	METER
km	KILOMETER
sm	SQUARE METER

NOTES

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

GOVERNMENTAL LAND LINE AND REFERENCE LINE ARE COINCIDENTAL.

DISTANCES FROM REFERENCE LINE ARE ← meters (feet) →

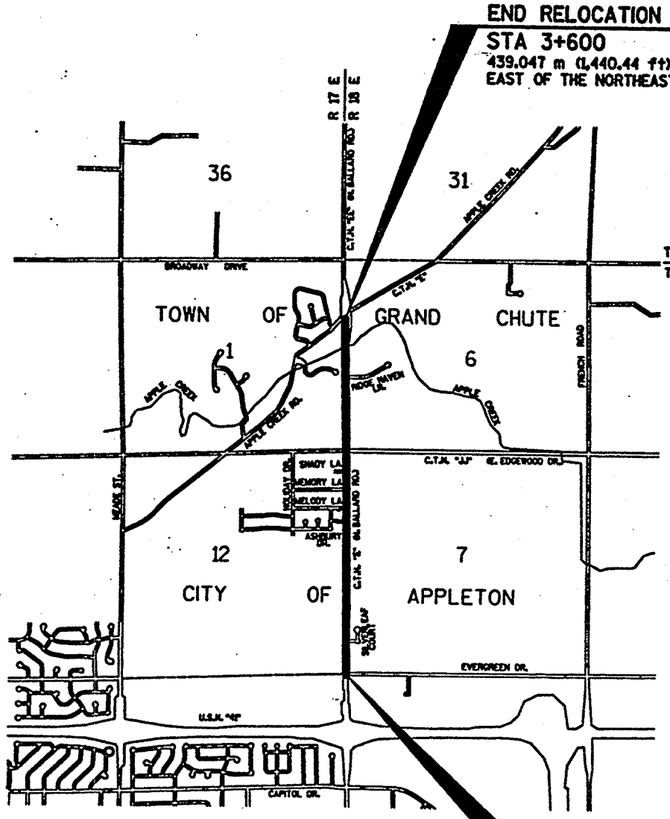
ALL COORDINATES ON THIS PLAT ARE METRIC GROUND.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE AS SPECIFIED ON EACH PLAT DETAIL SHEET.

RIGHT-OF-WAY PLAT BEARINGS ARE ORIENTED TO THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 12, T21N, R17E, WITH THE BEARING RECORDED AS N00°03'00"W. THE DIFFERENCE BETWEEN PLAT BEARINGS REPRESENTS PLANE ANGLES IN DEGREES, MINUTES, AND SECONDS.

RIGHT OF WAY MONUMENTS ARE TYPE 2 AND ARE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER.

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 RECORDS".



END RELOCATION ORDER

STA 3+600

439.047 m (1,440.44 ft) SOUTH OF AND 0.884 m (2.90 ft) EAST OF THE NORTHEAST CORNER OF SECTION 1, T21N, R17E

BEGIN RELOCATION ORDER

STA 1+049.997

THE SOUTHEAST CORNER OF SECTION 12, T21N, R17E

ACCEPTED FOR OUTAGAMIE COUNTY

11-17-98 (Date) (Signature)

ACCEPTED FOR CITY OF APPLETON

11-19-98 (Date) (Signature)

PLAT PREPARED BY:

OMNI ASSOCIATES
APPLETON, WISCONSIN

WISCONSIN REGISTERED LAND SURVEYOR

Rev. Jan. 13, 2000
Rev. Oct. 15, 1999
Nov. 17, 1998
(Date) (Signature)

4984-00-95,97 / 4.1

REVISION DATE 4-25-99 N.C.; 10-15-99; 11-01-99 N.C.; 11-17-00	DATE 11-24-98	SCALE, METERS 0 1000 2000	HWY: CTH E (N. BALLARD RD.)	FEDERAL PROJECT NO: 4984-00-96
	GRID FACTOR		COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:

SHEET NO: 4.1 M

EI339A98 WisDOT: MSHT7S

SCHEDULE OF LANDS & INTERESTS 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.

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL AREA	R/W AREA REQUIRED EXISTING	R/W AREA REQUIRED NEW	R/W AREA REQUIRED TOTAL	TI AREA	PLE AREA	RDE AREA	REMARKS
1	4.5 - 4.10	AID ASSOCIATION FOR LUTHERANS	FEE, TI & PLE	131.260 ha (324.35 Ac)	1.512 ha (3.74 Ac)	0.380 ha (0.94 Ac)	1.892 ha (4.68 Ac)	0.985 ha (2.44 Ac)	0.032 ha (0.08 Ac)	---	CITY OF APPLETON
2											
3	4.5	MARVIN G. ERNST & ILENE E. ERNST	FEE & TI	0.186 ha (0.46 Ac)	---	0.011 ha (0.03 Ac)	0.011 ha (0.03 Ac)	0.023 ha (0.06 Ac)	---	---	TOWN OF GRAND CHUTE
4	4.5 - 4.6	RICHARD D. WITTMANN	FEE & TI	0.461 ha (1.14 Ac)	0.059 ha (0.15 Ac)	0.015 ha (0.04 Ac)	0.074 ha (0.19 Ac)	0.022 ha (0.05 Ac)	---	---	CITY OF APPLETON
5											
6	4.6	NORTH MEADOWS INVESTMENT, LTD.	FEE & TI	0.452 ha (1.11 Ac)	0.045 ha (0.11 Ac)	0.011 ha (0.03 Ac)	0.056 ha (0.14 Ac)	0.017 ha (0.04 Ac)	---	---	CITY OF APPLETON
7	4.6 - 4.7	MAPLE WOOD ESTATES, INC.	FEE & TI	5.178 sm (55.736 sf)	---	17 sm (181 sf)	17 sm (181 sf)	206 sm (2,217 sf)	---	---	CITY OF APPLETON
8	4.6 - 4.7	DONALD J. VAN HANDEL & JOANI B. VAN HANDEL	TI	0.194 ha (0.48 Ac)	---	---	---	0.005 ha (0.01 Ac)	---	---	CITY OF APPLETON
9	4.7 - 4.8	MARION BAUMANN, A/K/A MARION R. BAUMANN	FEE & TI	0.093 ha (0.23 Ac)	0.033 ha (0.08 Ac)	0.009 ha (0.02 Ac)	0.042 ha (0.10 Ac)	0.025 ha (0.06 Ac)	---	---	CITY OF APPLETON
10											
11	4.8	NORTH MEADOWS INVESTMENT, LTD.	FEE & TI	0.405 ha (1.00 Ac)	0.077 ha (0.19 Ac)	0.019 ha (0.05 Ac)	0.096 ha (0.24 Ac)	0.309 ha (0.76 Ac)	---	---	CITY OF APPLETON
12	4.9 - 4.10	PRN HEALTH SERVICES	FEE & TI	6.293 ha (15.55 Ac)	0.106 ha (0.26 Ac)	0.026 ha (0.07 Ac)	0.132 ha (0.33 Ac)	6.161 ha (15.22 Ac)	---	---	CITY OF APPLETON
13	4.10	JAMES MARTIN ROBERTS AND DIANE JOAN ROBERTS	FEE & TI	0.255 ha (0.63 Ac)	0.042 ha (0.10 Ac)	0.011 ha (0.03 Ac)	0.053 ha (0.13 Ac)	0.202 ha (0.50 Ac)	---	---	TOWN OF GRAND CHUTE
14	4.7	JAMES L. SLEZAK AND ANNE C. SLEZAK	TI	1.985 sm (21.366 sf)	---	---	---	1.985 sm (21.366 sf)	15 sm (161 sf)	---	CITY OF APPLETON
15											
16	4.10	MARVIN C. BAETEN & HELEN V. BAETEN	FEE & TI	0.498 ha (1.23 Ac)	0.081 ha (0.20 Ac)	0.020 ha (0.05 Ac)	0.101 ha (0.25 Ac)	0.397 ha (0.98 Ac)	0.056 ha (0.14 Ac)	---	TOWN OF GRAND CHUTE
17	4.10 - 4.11 & 4.23	WINTER LEASING, LLC	FEE & TI	6.912 ha (17.08 Ac)	0.130 ha (0.32 Ac)	0.039 ha (0.10 Ac)	0.169 ha (0.42 Ac)	6.743 ha (16.66 Ac)	0.104 ha (0.26 Ac)	---	CITY OF APPLETON
18	4.10 - 4.11 & 4.22	LESLIE WOLDT	FEE, TI & ACCESS	0.603 ha (1.49 Ac)	0.111 ha (0.27 Ac)	0.033 ha (0.08 Ac)	0.144 ha (0.35 Ac)	0.459 ha (1.14 Ac)	0.095 ha (0.23 Ac)	---	TOWN OF GRAND CHUTE
19	4.11 - 4.12 & 4.22	HERITAGE DEVELOPMENT COMPANY, LLC	FEE, TI & RDE	0.450 ha (1.11 Ac)	---	0.006 ha (0.01 Ac)	0.006 ha (0.01 Ac)	0.444 ha (1.10 Ac)	0.079 ha (0.20 Ac)	0.003 ha (0.01 Ac)	CITY OF APPLETON
20	4.22	KURT H. PLANTIKOW & MELISSA PLANTIKOW	TI	0.108 ha (0.27 Ac)	---	---	---	0.108 ha (0.27 Ac)	0.011 ha (0.03 Ac)	---	CITY OF APPLETON
21	4.11 - 4.14 & 4.23	APPLETON AREA SCHOOL DISTRICT	TI	22.416 ha (55.39 Ac)	---	---	---	0.472 ha (1.17 Ac)	---	---	CITY OF APPLETON
22	4.12	ERNEST E. LISSER III & ANN E. LISSER	FEE, TI & PLE	0.206 ha (0.51 Ac)	---	0.017 ha (0.04 Ac)	0.017 ha (0.04 Ac)	0.189 ha (0.47 Ac)	0.034 ha (0.08 Ac)	0.003 ha (0.01 Ac)	TOWN OF GRAND CHUTE
23	4.12	RONALD PETERS & KAREN PETERS	FEE, TI & PLE	2.064 sm (22.216 sf)	---	235 sm (2,525 sf)	235 sm (2,525 sf)	1.829 sm (19.691 sf)	288 sm (3,100 sf)	11 sm (120 sf)	TOWN OF GRAND CHUTE
24	4.12 - 4.13	JUNE MAASS, LOLA JAHNKE, JANET PRASKA, ROBERT ZIEGLER, DONALD ZIEGLER, KENNETH ZIEGLER, PHILIP ZIEGLER & FREDRICK ZIEGLER	FEE & TI	0.413 ha (1.02 Ac)	---	0.024 ha (0.06 Ac)	0.024 ha (0.06 Ac)	0.388 ha (0.96 Ac)	0.036 ha (0.09 Ac)	---	TOWN OF GRAND CHUTE
25											
26	4.13	HERBERT J. KLARNER & GLADYS I. KLARNER	FEE & TI	0.413 ha (1.02 Ac)	---	0.017 ha (0.04 Ac)	0.017 ha (0.04 Ac)	0.396 ha (0.98 Ac)	0.034 ha (0.08 Ac)	---	TOWN OF GRAND CHUTE
27	4.13 - 4.14	MARION L. VAN HANDEL REVOCABLE LIVING TRUST	FEE, TI & PLE	1.198 ha (2.96 Ac)	0.136 ha (0.34 Ac)	0.028 ha (0.07 Ac)	0.164 ha (0.41 Ac)	1.034 ha (2.55 Ac)	0.073 ha (0.18 Ac)	0.004 ha (0.01 Ac)	TOWN OF GRAND CHUTE
28	4.14 & 4.21	MICHAEL D. KRAUS & KAREN A. KRAUS	FEE & TI	3237 sm (34,848 sf)	493 sm (5,306 sf)	18 sm (191 sf)	511 sm (5,497 sf)	2,726 sm (29,351 sf)	569 sm (6,125 sf)	---	TOWN OF GRAND CHUTE
29	4.20	JAMES R. VAN HANDEL & JUDY A. VAN HANDEL	TI	0.295 ha (0.73 Ac)	---	---	---	0.295 ha (0.73 Ac)	0.013 ha (0.03 Ac)	---	TOWN OF GRAND CHUTE
30											
31	4.20	JULE VAN HANDEL	---	4.395 ha (10.86 Ac)	---	---	---	4.395 ha (10.86 Ac)	---	---	TOWN OF GRAND CHUTE
32											
33	4.20	CARL E. MARTEN & JANE MARTEN	FEE & TI	1.246 ha (3.08 Ac)	0.047 ha (0.12 Ac)	0.007 ha (0.02 Ac)	0.054 ha (0.14 Ac)	1.192 ha (2.94 Ac)	0.073 ha (0.18 Ac)	---	TOWN OF GRAND CHUTE
34	4.14 - 4.15 & 4.20	TOM H. VAN HANDEL & MARY K. VAN HANDEL	FEE, TI & PLE	3.039 ha (7.51 Ac)	0.175 ha (0.43 Ac)	0.049 ha (0.12 Ac)	0.224 ha (0.55 Ac)	2.815 ha (6.96 Ac)	0.160 ha (0.40 Ac)	0.003 ha (0.01 Ac)	TOWN OF GRAND CHUTE
35											
36	4.14 & 4.21	RICHARD A. MUELLER	TI	0.538 ha (1.33 Ac)	---	---	---	0.538 ha (1.33 Ac)	0.059 ha (0.15 Ac)	---	CITY OF APPLETON
37	4.14 - 4.15	JAMES H. GILLESPIE & MARY GILLESPIE	FEE & TI	8.219 ha (20.31 Ac)	0.099 ha (0.25 Ac)	0.025 ha (0.06 Ac)	0.124 ha (0.31 Ac)	8.095 ha (20.00 Ac)	0.072 ha (0.18 Ac)	---	TOWN OF GRAND CHUTE
38	4.15	WILLIAM D. GILLESPIE & JUDITH A. GILLESPIE	FEE & TI	1.104 ha (2.73 Ac)	0.071 ha (0.17 Ac)	0.018 ha (0.04 Ac)	0.089 ha (0.21 Ac)	1.015 ha (2.52 Ac)	0.062 ha (0.15 Ac)	---	TOWN OF GRAND CHUTE
39	4.15	THE DONALD J. VAN HANDEL FAMILY WISCONSIN LIMITED PARTNERSHIP	FEE	2.922 ha (7.22 Ac)	0.089 ha (0.22 Ac)	0.022 ha (0.05 Ac)	0.109 ha (0.27 Ac)	2.813 ha (6.95 Ac)	---	---	TOWN OF GRAND CHUTE
40											
41	4.15 - 4.16	LAWRENCE G. PETERSEN & RITA JANE PETERSEN	FEE & TI	10.243 ha (25.31 Ac)	0.246 ha (0.61 Ac)	0.061 ha (0.15 Ac)	0.307 ha (0.76 Ac)	9.936 ha (24.55 Ac)	0.124 ha (0.31 Ac)	---	TOWN OF GRAND CHUTE
42	4.15 - 4.16	JAMES PAUL TROST & CHYRA A. TROST	TI	0.405 ha (1.00 Ac)	---	---	---	0.405 ha (1.00 Ac)	0.062 ha (0.15 Ac)	---	TOWN OF GRAND CHUTE
43	4.16 - 4.17	DAN L. HEYERDAHL & KAREN HEYERDAHL	TI	0.915 ha (2.26 Ac)	---	---	---	0.915 ha (2.26 Ac)	0.075 ha (0.19 Ac)	---	TOWN OF GRAND CHUTE
44	4.16	STEVEN R. PETERSEN	FEE, TI & PLE	12.505 sm (134.600 sf)	655 sm (7,054 sf)	164 sm (1,765 sf)	819 sm (8,819 sf)	11.686 sm (125.781 sf)	246 sm (2,648 sf)	9 sm (99 sf)	TOWN OF GRAND CHUTE
45											
46	4.16 - 4.17	NORBERT G. SCHABO & LINDA L. SCHABO	FEE, TI & PLE	0.186 ha (0.46 Ac)	0.037 ha (0.09 Ac)	0.009 ha (0.02 Ac)	0.046 ha (0.11 Ac)	0.140 ha (0.35 Ac)	0.014 ha (0.03 Ac)	0.003 ha (0.01 Ac)	TOWN OF GRAND CHUTE
47	4.17	NORBERT G. SCHABO & LINDA L. SCHABO, & MARLENE SMUDDE N/K/A MARLENE SWARD	FEE & TI	0.631 ha (1.56 Ac)	0.077 ha (0.19 Ac)	0.019 ha (0.05 Ac)	0.096 ha (0.24 Ac)	0.535 ha (1.32 Ac)	0.030 ha (0.07 Ac)	---	TOWN OF GRAND CHUTE
48	4.17 - 4.18	KEVIN C. GARRETT & CHERYL M. MCCHESNEY	FEE & TI	1.683 ha (4.16 Ac)	---	0.010 ha (0.03 Ac)	0.010 ha (0.03 Ac)	1.673 ha (4.13 Ac)	0.202 ha (0.50 Ac)	---	TOWN OF GRAND CHUTE
49	4.17	JAMES L. COON & JEAN T. COON	FEE & TI	0.506 ha (1.25 Ac)	0.077 ha (0.19 Ac)	0.018 ha (0.04 Ac)	0.095 ha (0.23 Ac)	0.411 ha (1.02 Ac)	0.026 ha (0.06 Ac)	---	TOWN OF GRAND CHUTE
50											
51	4.17 - 4.18	ELLEN SMUDDE	FEE & TI	1.202 ha (2.97 Ac)	0.119 ha (0.30 Ac)	0.029 ha (0.07 Ac)	0.148 ha (0.37 Ac)	1.054 ha (2.60 Ac)	0.062 ha (0.15 Ac)	---	TOWN OF GRAND CHUTE
52	4.18	DUANE L. FOX & SHARON A. FOX	FEE & TI	0.676 ha (1.67 Ac)	0.023 ha (0.06 Ac)	0.002 ha (0.01 Ac)	0.025 ha (0.07 Ac)	0.651 ha (1.60 Ac)	0.013 ha (0.03 Ac)	---	TOWN OF GRAND CHUTE
53	4.18 - 4.19	THE MUELLER FAMILY LIMITED PARTNERSHIP	FEE & TI	0.874 ha (2.16 Ac)	---	0.013 ha (0.03 Ac)	0.013 ha (0.03 Ac)	0.861 ha (2.13 Ac)	0.197 ha (0.49 Ac)	---	TOWN OF GRAND CHUTE
96	4.13	ANR PIPELINE COMPANY	CONVEYANCE OF RIGHTS	---	---	---	---	---	---	---	---
97	4.6 - 4.7 & 4.16	WISCONSIN ELECTRIC POWER COMPANY	CONVEYANCE OF RIGHTS	---	---	---	---	---	---	---	---
98	4.5 - 4.11	AMERITECH OF WISCONSIN	CONVEYANCE OF RIGHTS	---	---	---	---	---	---	---	---
99	4.16 - 4.17	TIME WARNER CABLE	CONVEYANCE OF RIGHTS	---	---	---	---	---	---	---	---

REVISION DATE 04-23-99, 10-15-99, 11-01-99, 01-12-00

DATE 11-24-98

HWY: CTH E (N. BALLARD ROAD)

COUNTY: OUTAGAMIE

FEDERAL PROJECT NO: 4984-00-96

STATE R/W PROJECT NO:

SHEET NO: 4.2

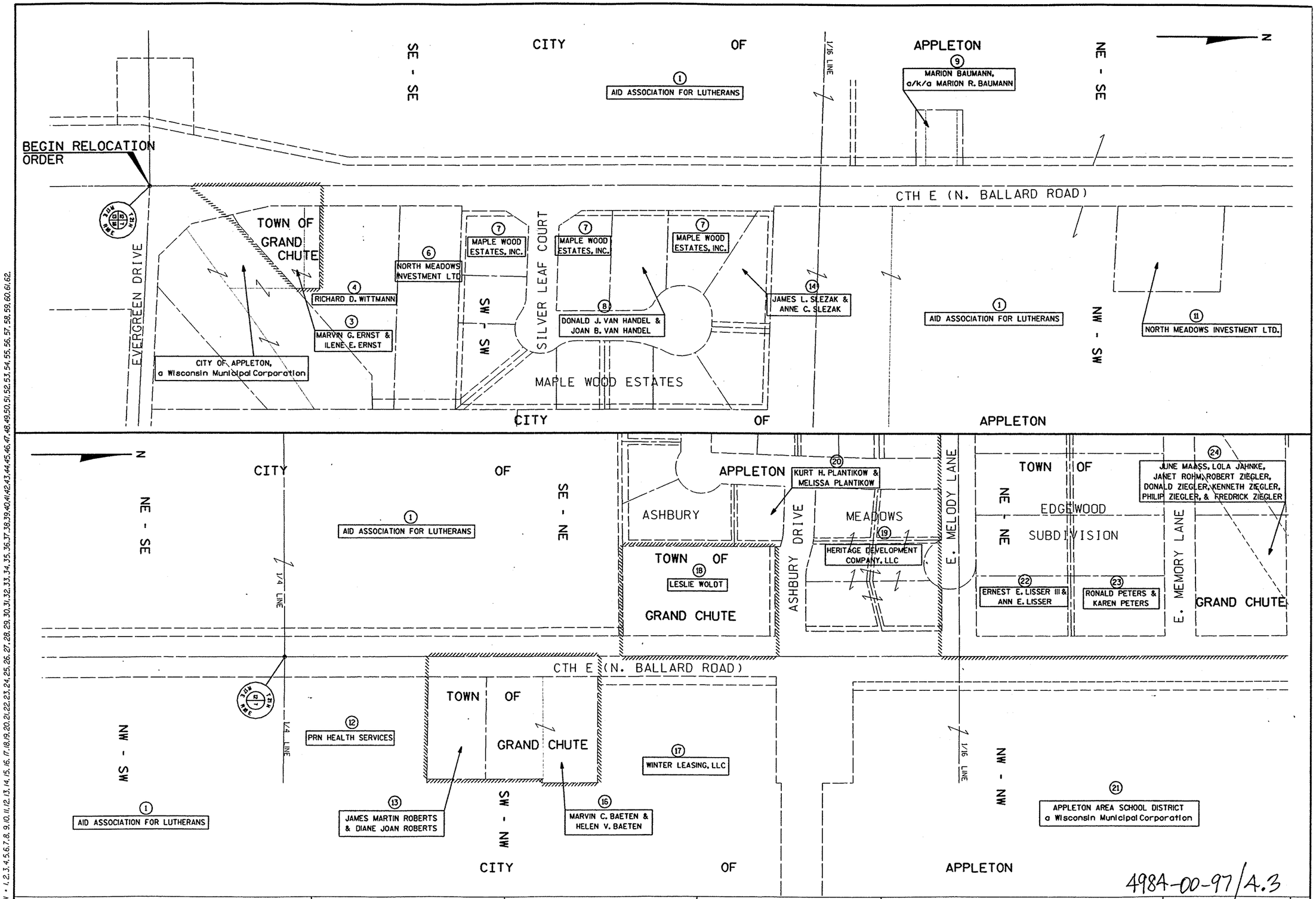
M

4984-00-95,97/4.2

PLOT DATE: 11-01-99
TECH-ENGR: CRK/PTR
E1339498/SHEETS /PLAT /4984002.DGN
REV. DATE: 11-01-99
LEVELS ON - 1, 2, 5,

56. 59.

WISDOT: MSHT60



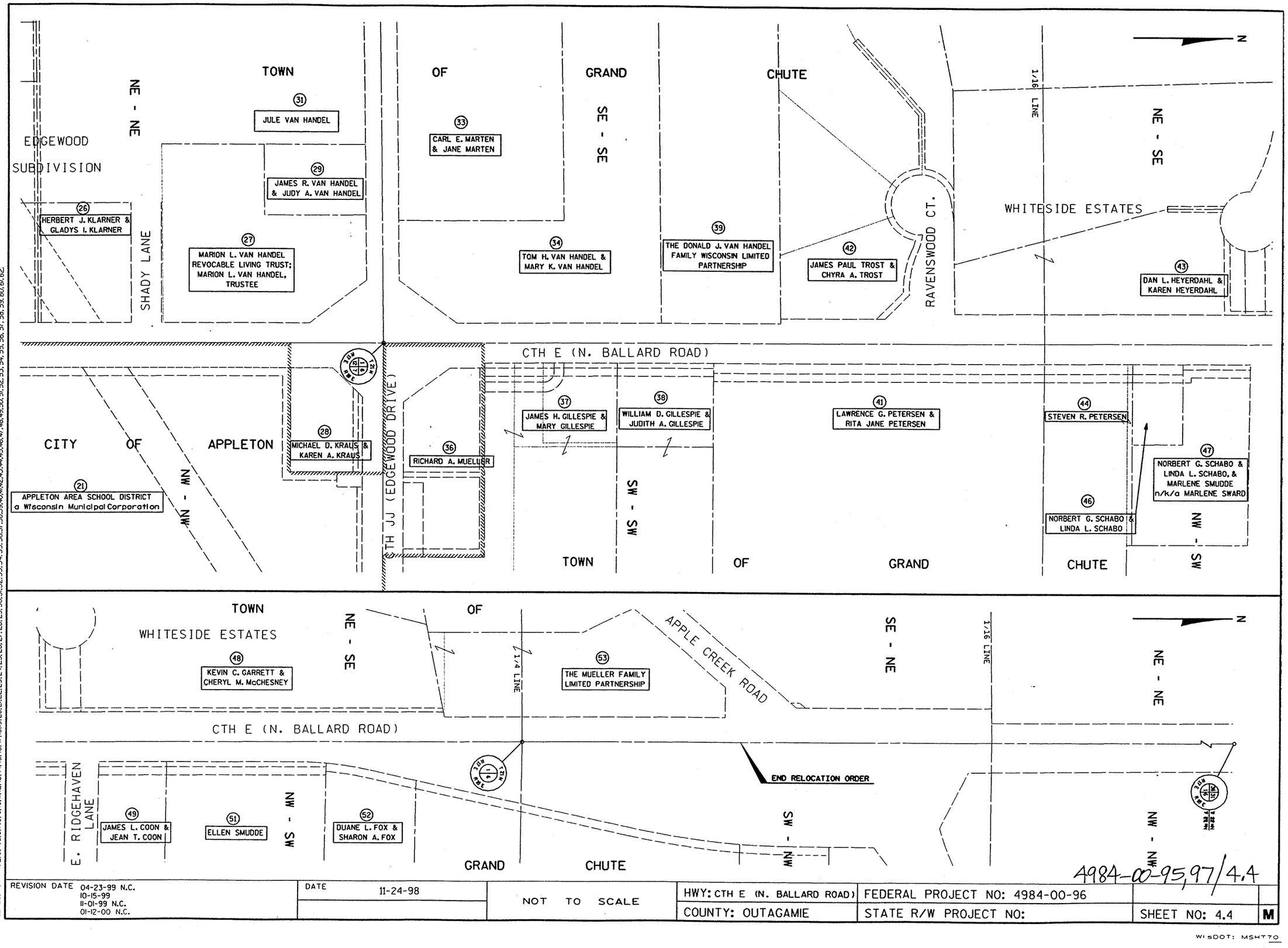
4984-00-97/4.3

REVISION DATE 04-23-99 10-15-99 N.C. 11-01-99 N.C. 01-12-00	DATE 11-24-98	NOT TO SCALE	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	SHEET NO: 4.3 M
			COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	

FILE NAME: E1339A /SHEETS /PLAT /4984040 3.DGN
TECH/ENGR: DPP/SDC
PLOT DATE: 11/01/99

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.

WISDOT: MSHT20



REVISION DATE 04-23-99 N.C. 10-15-99 11-01-99 N.C. 01-12-00 N.C.	DATE 11-24-98	NOT TO SCALE	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	
			COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.4 M

4984-00-95,97/4.4

FILE NAME: E1339A /SHEETS /PLAT /4984040 4.DGN
TECH/ENGR: DPP/SDC
PLOT DATE: 11/01/99
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.

WISDOT: MSHT70

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324 (1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY AND PROJECT I.D. 1123-07-21, APPLETON - GREEN BAY, CTH E INTERCHANGE, USH 41, OUTAGAMIE COUNTY.

0.3' x 0.6' x 3' STONE
N= 175,824.3182
E= 253,889.3636

T 21 N R 17 E 13 12

CITY OF APPLETON

SE - SE

N

SECTION LINE (PREVIOUSLY RECORDED AS N89°23'30"E 2,760.66')
N89°30'10"E 841.655m (2,761.33')

DRAINAGE EASEMENT
CITY OF APPLETON, A MUNICIPAL CORPORATION
J16683 I02 DOC #1150379

(1) AID ASSOCIATION FOR LUTHERANS

5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN

SLOPE INTERCEPT

1+114.632 TI
22.860m (75.00')
N= 175,896.2415
E= 254,708.6843

22.860m (75')

7.620m (25') WIDE
TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

1+152.761 R/W
15.240m (50.00')
N= 175,934.3762
E= 254,715.6794

STA 1+160

BEGIN RELOCATION ORDER
STA 1+049.997
N = 175,831.6222
E = 254,730.9866

36.576 m (120')

CTH E (N. BALLARD ROAD)

R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL

N00°02'15"W 307.239m (1,008.00')
S89°57'45"W 15.240m (50.00')
N00°02'15"W 699.166m (2,293.85')

1+000
SAN
27" SAN
N00°02'15"W 102.764m (337.15')
N00°02'15"W 58.923m (193.32')
(PREVIOUSLY RECORDED AS N00°02'21"W)
1+100
N00°02'15"W 743.007m (2,437.68')

N89°57'45"E 15.240m (50.00')
12.192m (40')

N00°02'15"W 127.95m (419.75')
8.690m (28.50')
1 AP
19.812m (65')
15.240m (50')

MATCH LINE

PK NAIL
1+049.997, 0.000m RT
N= 175,831.6222
E= 254,730.9866

S87°31'30"E 905.409m (2,970.49')
(PREVIOUSLY RECORDED AS S87°31'44"E 2,970.49')

3/4"REB

1+108.521 R/W
15.240m (50.00')
N= 175,930.5559
E= 254,748.1881

1+202.301 TI
21.438m (70.34')
N= 175,883.9393
E= 254,752.3906

1+359.435 TI
19.812m (65.00')
N= 175,891.0733
E= 254,750.7597

SLOPE INTERCEPT

4.572m (15') WIDE ~~TEMPORARY~~ INTEREST TO CONSTRUCT DRIVEWAY AND CUT/~~FILL~~ SLOPES

(3) MARVIN G. ERNST & ILENE E. ERNST

(4) RICHARD D. WITTMANN

P.L.

CITY OF APPLETON, a Wisconsin Municipal Corporation

EVERGREEN DR.

7.544m (24.75')

RR SPIKE
N= 175,792.5235
E= 255,635.5507

T 21 N R 18 E 7 18

TOWN OF GRAND CHUTE

SW - SW

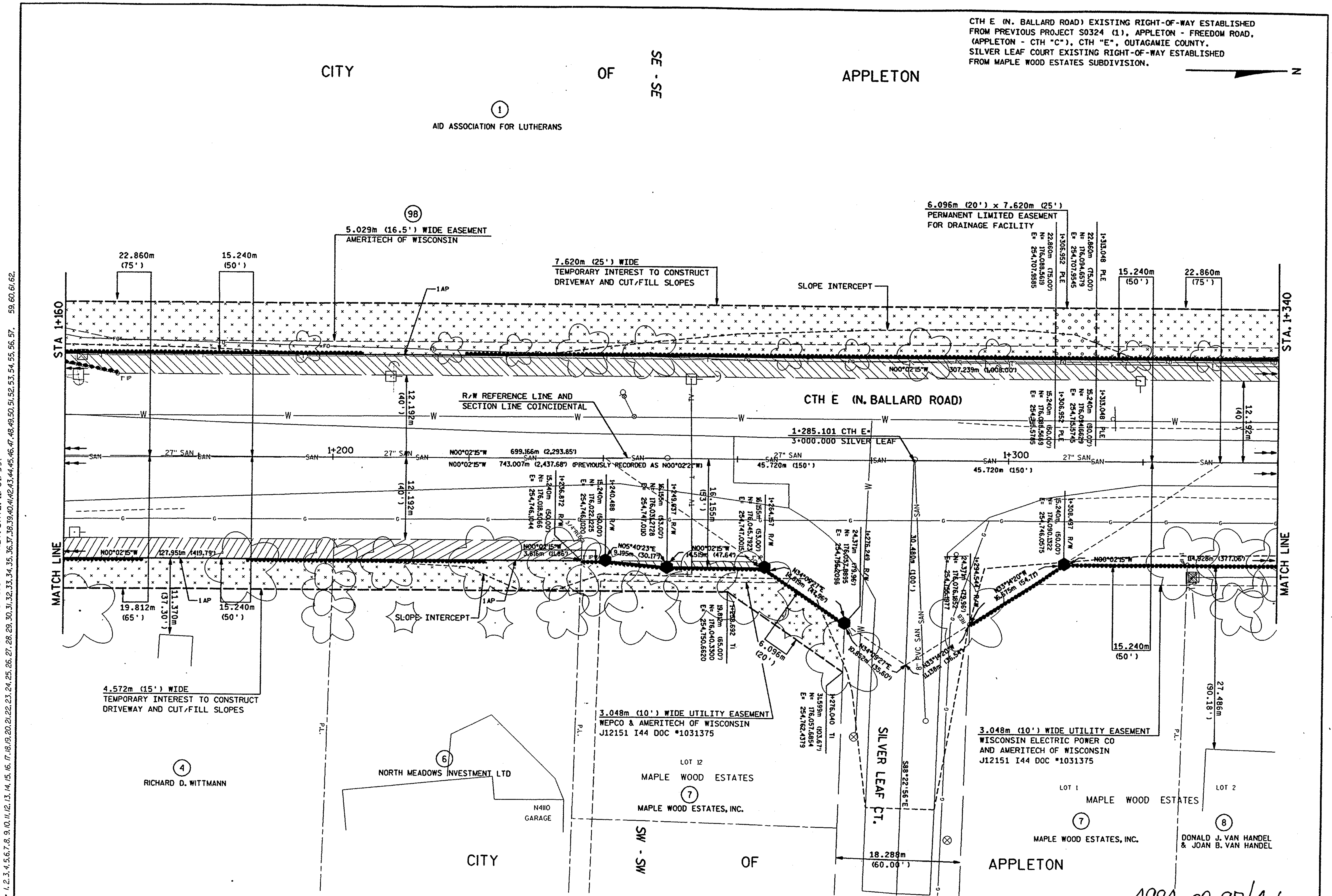
CITY OF APPLETON

4984-00-97/4.5

REVISION DATE	DATE	SCALE, METERS	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96		
04-23-99 10-15-99 N.C. 11-01-99 N.C. 01-12-00 N.C.	11-24-98	0 25	COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.5	M
	GRID FACTOR					

FILE NAME: E1339498/SHEETS /PLAT /4984040S .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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, 59,60,61,62.

WisDOT: MSHT75



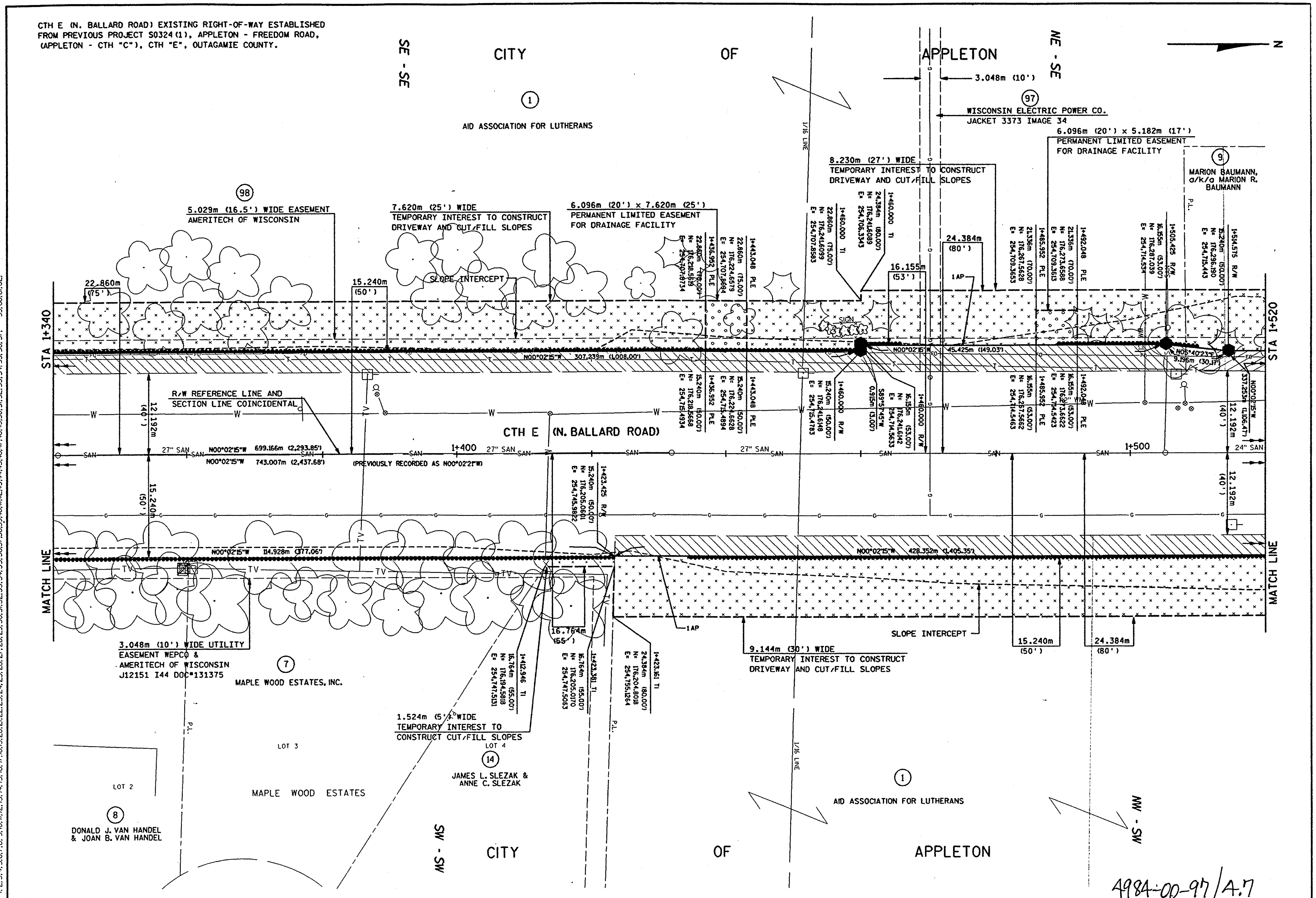
CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324 (1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY.
SILVER LEAF COURT EXISTING RIGHT-OF-WAY ESTABLISHED FROM MAPLE WOOD ESTATES SUBDIVISION.
N
CITY OF APPLETON
SE - SE
1
AID ASSOCIATION FOR LUTHERANS
98
5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
7.620m (25') WIDE
TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES
6.096m (20') x 7.620m (25')
PERMANENT LIMITED EASEMENT FOR DRAINAGE FACILITY
SLOPE INTERCEPT
22.860m (75')
15.240m (50')
STA 1+160
STA. 1+340
CTH E (N. BALLARD ROAD)
R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL
1+285.101 CTH E=
3+000.000 SILVER LEAF
1+200
1+300
27" SAN
N00°02'15"W 699.166m (2,293.85')
N00°02'15"W 743.007m (2,437.68') (PREVIOUSLY RECORDED AS N00°02'2"W)
45.720m (150')
12.192m (40')
16.155m (53')
30.480m (100')
MATCH LINE
19.812m (65')
11.370m (37.30')
4.572m (15') WIDE
TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES
3.048m (10') WIDE UTILITY EASEMENT
WEPCO & AMERITECH OF WISCONSIN
J12151 I44 DOC #1031375
3.048m (10') WIDE UTILITY EASEMENT
WISCONSIN ELECTRIC POWER CO AND AMERITECH OF WISCONSIN
J12151 I44 DOC #1031375
27.486m (90.18')
6.096m (20')
4
RICHARD D. WITTMANN
6
NORTH MEADOWS INVESTMENT LTD
N4110 GARAGE
LOT 12
MAPLE WOOD ESTATES
7
MAPLE WOOD ESTATES, INC.
SILVER LEAF CT.
S88°22'56"E
18.288m (60.00')
LOT 1
LOT 2
MAPLE WOOD ESTATES
8
DONALD J. VAN HANDEL & JOAN B. VAN HANDEL
SW - SW
CITY OF APPLETON

FILE NAME: E1339A98/SHEETS /PLAT /49840406 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99.
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, 59,60,61,62,

4984-00-97/4.6

REVISION DATE	DATE	SCALE, METERS	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	
04-23-99 10-15-99 N.C. 11-01-99 01-12-00	11-24-98 GRID FACTOR	0 25	COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.6 M

WISDOT: MSHT75



CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY.
N
SE - SE
CITY OF APPLETON
NE - SE
1
AID ASSOCIATION FOR LUTHERANS
3.048m (10')
97
WISCONSIN ELECTRIC POWER CO. JACKET 3373 IMAGE 34
6.096m (20') x 5.182m (17') PERMANENT LIMITED EASEMENT FOR DRAINAGE FACILITY
9
MARION BAUMANN, a/k/a MARION R. BAUMANN
8.230m (27') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES
98
5.029m (16.5') WIDE EASEMENT AMERITECH OF WISCONSIN
7.620m (25') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES
6.096m (20') x 7.620m (25') PERMANENT LIMITED EASEMENT FOR DRAINAGE FACILITY
1/16 LINE
SLOPE INTERCEPT
22.860m (75')
15.240m (50')
16.155m (53')
24.384m (80')
1AP
STA 1+340
STA 1+520
N00°02'15"W 307.239m (1,008.00')
N00°02'15"W 45.425m (149.03')
N05°40'23"E 9.196m (30.17')
N00°02'15"W 337.253m (1,106.47')
R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL
12.192m (40')
CTH E (N. BALLARD ROAD)
1+400
1+500
27" SAN
24" SAN
N00°02'15"W 699.166m (2,293.85')
N00°02'15"W 743.007m (2,437.68')
(PREVIOUSLY RECORDED AS N00°02'21"W)
15.240m (50')
MATCH LINE
N00°02'15"W 114.928m (377.06')
N00°02'15"W 428.352m (1,405.35')
MATCH LINE
16.764m (55')
1AP
SLOPE INTERCEPT
15.240m (50')
24.384m (80')
9.144m (30') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES
3.048m (10') WIDE UTILITY EASEMENT WEPCO & AMERITECH OF WISCONSIN J12151 I44 DOC#131375
7
MAPLE WOOD ESTATES, INC.
1.524m (5') WIDE TEMPORARY INTEREST TO CONSTRUCT CUT/FILL SLOPES
LOT 3
LOT 4
14
JAMES L. SLEZAK & ANNE C. SLEZAK
LOT 2
MAPLE WOOD ESTATES
8
DONALD J. VAN HANDEL & JOAN B. VAN HANDEL
P.L.
SW - SW
CITY OF APPLETON
1
AID ASSOCIATION FOR LUTHERANS
NW - SW

4984-00-97/4.7

REVISION DATE	DATE	SCALE, METERS	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96		
04-23-99 10-15-99 N.C. 11-01-99 01-12-00	11-24-98 GRID FACTOR	0 — 25	COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.7	M

FILE NAME: E1339A98/SHEETS /PLAT /49840407 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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, 59,60,61,62.

WISDOT: MSHT75

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY.

CITY OF APPLETON

NE - SE

N

(98) 5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
J17402 I22 DOC # 1170476

(1) AID ASSOCIATION FOR LUTHERANS

(9) MARION BAUMANN, a/k/a MARION R. BAUMANN

6.096m (20') x 7.620m (25') PERMANENT LIMITED EASEMENT FOR DRAINAGE FACILITY

(98) 5.029m (16.5') WIDE EASEMENT AMERITECH OF WISCONSIN

9.144m (30') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

6.096m (20') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

STA 1+520

STA 1+700

MATCH LINE

MATCH LINE

SLOPE INTERCEPT

SLOPE INTERCEPT

15.240m (50')

24.384m (80')

21.336m (70')

27.432m (90')

12.192m (40') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL

CTH E (N. BALLARD ROAD)

N00°02'15"W 639.66m (2,293.85') 24" SAN

N00°02'15"W 743.007m (2,437.68') (PREVIOUSLY RECORDED AS N00°02'21"W)

N00°02'15"W 428.352m (1,405.25')

1+600

1+700

(1) AID ASSOCIATION FOR LUTHERANS

(11) NORTH MEADOWS INVESTMENT LTD.

CITY OF APPLETON

NW - SW

A984-00-97/4.8

REVISION DATE 04-23-99, 10-15-99 N.C., 11-01-99 N.C., 01-12-00 N.C.	DATE 11-24-98	SCALE, METERS 0 25	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	SHEET NO: 4.8 M
	GRID FACTOR		COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	

WisDOT: MSHT75

FILE NAME: E1339A98/SHEETS /PLAT /49840408 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99.
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.
43,44,45,46,47,48,49,50,51,52,53,54,55,56,57, 59,60,61,62.

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY.

CITY OF APPLETON

NE - SE

(1) AID ASSOCIATION FOR LUTHERANS

BERNTSEN MONUMENT
N= 176,627.7226
E= 253,920.7605

T 21 N R 17 E 12

N

SE - NE

N89°35'15"E 809.722m (2,656.56') (PREVIOUSLY RECORDED AS N89°35'0"E 2,656.41') 1/4 LINE

9.144m (30') WIDE
TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

6.096m (20') x 6.096m (20')
PERMANENT LIMITED EASEMENT FOR DRAINAGE FACILITY

6.096m (20') WIDE
TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

(98) 5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN

6.096m (20') x 7.620m (25')
PERMANENT LIMITED EASEMENT FOR DRAINAGE FACILITY

SLOPE INTERCEPT

STA 1+700

STA 1+880

15.240m (50')

21.336m (70')

24.384m (80')

21.336m (70') 1+742.952 PLE N= 176,524.5628 E= 254,709.1971

21.336m (70') 1+749.048 PLE N= 176,530.6588 E= 254,709.1931

22.860m (75') 1+836.952 PLE N= 176,618.5612 E= 254,707.6186

22.860m (75') 1+843.048 PLE N= 176,624.6578 E= 254,707.6076

15.240m (50') 1+851.828 R/W N= 176,633.4425 E= 254,715.2218

21.336m (70') 1+851.788 TI N= 176,633.3986 E= 254,709.1259

15.240m (50') 1+851.929 BK = R/W N= 176,633.5406 E= 254,715.2218

24.384m (80') 1+851.766 TI N= 176,633.3749 E= 254,706.0779

N00°02'15"W 337.25m (1,106.47')

N00°03'00"W 281.434m (923.34')

N89°35'15"E 15.240m (50.00')

N00°02'15"W 0.098m (0.32')

R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL

1+700 1+800

24" SAN

N00°02'15"W 699.166m (2,293.85')

N00°02'15"W 743.007m (2,437.68') (PREVIOUSLY RECORDED AS N00°02'21"W)

N00°03'00"W 810.232m (2,658.24')

(PREVIOUSLY RECORDED AS N00°03'00"W 2,658.13')

12.192m (40')

CTH E (N. BALLARD ROAD)

PK NAIL 1+851.928, 0.004m RT N= 176,633.5423 E= 254,730.4618

T 21 N R 18 E 12 7

N89°28'22"W 15.240m (50.00')

N00°02'15"W 0.152m (0.50')

N00°03'00"W 247.287m (811.31')

MATCH LINE

1 AP

15.240m (50')

21.336m (70')

SLOPE INTERCEPT

6.096m (20') WIDE
TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

15.240m (50') 1+851.777 R/W N= 176,633.4120 E= 254,745.7019

21.336m (70') 1+851.777 TI N= 176,633.3559 E= 254,751.7978

21.336m (70') 1+851.928 TI N= 176,633.5685 E= 254,751.7978

15.240m (50') 1+851.929 BK= R/W 1+851.926 AH N= 176,633.5539 E= 254,745.7018

21.336m (70') 1+880.000 TI N= 176,661.6433 E= 254,751.7733

N89°28'22"W 908.98m (2,982.01') (PREVIOUSLY RECORDED AS N89°28'25"W 2,981.86') P.L. 1/4 LINE

(12) PRN HEALTH SERVICES

BERNTSEN MONUMENT
N= 176,625.1900
E= 255,639.3415

T 21 N R 18 E 7

(1) AID ASSOCIATION FOR LUTHERANS

NW - SW

CITY OF APPLETON

SW - NW

4984-00-97/4.9

REVISION DATE 04-23-99 10-15-99 N.C. 11-01-99 N.C. 01-12-00	DATE 11-24-98 GRID FACTOR	SCALE, METERS 0 25	HWY: CTH E (N. BALLARD ROAD) COUNTY: OUTAGAMIE	FEDERAL PROJECT NO: 4984-00-96 STATE R/W PROJECT NO:	SHEET NO: 4.9 M

FILE NAME: E1339A98/SHEETS /PLAT /49840409 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57, 59,60,61,62.

WISDOT: MSHT75

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY.

CITY OF APPLETON

N

SE - NE

(1) AID ASSOCIATION FOR LUTHERANS

(18) LESLIE WOLDT

2.438m (8') WIDE EASEMENT
AMERITECH OF WISCONSIN
J16263 I27 DOC#1138401

TOWN OF GRAND CHUTE

6.096m (20') x 10.668m (35')
PERMANENT LIMITED EASEMENT
FOR DRAINAGE FACILITY

(98) 5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN

9.144m (30') WIDE
TEMPORARY INTEREST TO CONSTRUCT
DRIVEWAY AND CUT/FILL SLOPES

SLOPE INTERCEPT

24.384m (80')

15.240m (50')

STA 1+880

STA 2+060

CTH E (N. BALLARD ROAD)

N00°03'00"W 281.434m (923.34')

1+900

2+000

N00°03'00"W 810.232m (2,658.24')
(PREVIOUSLY RECORDED AS N00°03'00"W 2,658.13')

12.192m (40')

R/W REFERENCE LINE AND
SECTION LINE COINCIDENTAL

MATCH LINE

REB ¾"

IP

1 AP

FLAG

N00°03'00"W 247.287m (811.31')

22.860m (75')

21.336m (70')

15.240m (50')

21.336m (70.00') 1+950.000 TI
N: 176,731.6433
E: 254,751.7122

21.433m (70.32')

30.480m (100')

N4640

21.336m (70.00') 1+990.000 TI
N: 176,711.6433
E: 254,751.6773

21.946m (69.38')

30.480m (100.00') 1+990.000 TI
N: 176,711.6513
E: 254,760.8213

SLOPE INTERCEPT

21.336m (70')

(98) 5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
J16178 I17 DOC#1136036

6.096m (20') WIDE
TEMPORARY INTEREST TO CONSTRUCT
DRIVEWAY AND CUT/FILL SLOPES

7.620m (25') WIDE
TEMPORARY INTEREST TO CONSTRUCT
DRIVEWAY AND CUT/FILL SLOPES

15.240m (50') WIDE
TEMPORARY INTEREST TO CONSTRUCT
DRIVEWAY AND CUT/FILL SLOPES

SW - NW

(12) CARLTON A. WIECKERT

(13) JAMES MARTIN ROBERTS & DIANE JOAN ROBERTS

(16) MARVIN C. BAETEN & HELEN V. BAETEN

(17) WINTER LEASING, LLC

CITY OF APPLETON

TOWN OF GRAND CHUTE

CITY OF APPLETON

4984-00-97 / 4.10

REVISION DATE 04-23-99 10-15-99 11-01-99 N.C. 01-12-00 N.C.	DATE 11-24-98	SCALE, METERS 0 25	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	
	GRID FACTOR		COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.10 M

WISDOT: MSHT75

FILE NAME: E1339498/SHEETS /PLAT /4984040 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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, 59,60,61,62.

SEE SHEET 4.22

TOWN OF GRAND CHUTE

CITY OF APPLETON

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY. ASHBURY DRIVE (WEST OF CTH E) EXISTING RIGHT-OF-WAY ESTABLISHED FROM ASHBURY MEADOWS SUBDIVISION. ASHBURY DRIVE (EAST OF CTH E) EXISTING RIGHT-OF-WAY ESTABLISHED FROM CERTIFIED SURVEY MAP NO. 2074.

(18) LESLIE WOLDT

(97)

3.048m (10') WIDE EASEMENT
WISCONSIN ELECTRIC POWER COMPANY
J16455 I39 DOC#1143790

4.000m (13.12') WIDE
TEMPORARY INTEREST TO
CONSTRUCT CUT/FILL SLOPES

9.144m (30') WIDE
TEMPORARY INTEREST TO CONSTRUCT
DRIVEWAY AND CUT/FILL SLOPES

SLOPE INTERCEPT

STA 2+060

STA 2+240

ASHBURY DRIVE

CTH E (N. BALLARD ROAD)

2+157.050 CTH E •
2+182.073 ASHBURY

45.720m (150')

N00°03'00"W 810.232m (2,658.24')
(PREVIOUSLY RECORDED AS N00°03'00"W 2,658.13')

2+100

2+200

LOT 5

LOT 6

LOT 2

LOT 1

3.657m (12') WIDE UTILITY
EASEMENT BY PLAT

6.000m (19.68') WIDE
TEMPORARY INTEREST TO
CONSTRUCT CUT/FILL SLOPES
RESTRICTED DEVELOPMENT
EASEMENT FOR VISION CORNER

ASHBURY MEADOWS

(19) HERITAGE DEVELOPMENT COMPANY, LLC

5.182m (17') WIDE
TEMPORARY INTEREST TO
CONSTRUCT CUT/FILL SLOPES

3.048m (10') WIDE
UTILITY EASEMENT
BY PLAT

6.096m (20') WIDE
TEMPORARY INTEREST TO
CONSTRUCT CUT/FILL SLOPES

R/W REFERENCE LINE AND
SECTION LINE COINCIDENTAL

MATCH LINE

MATCH LINE

5.182m (17') WIDE
TEMPORARY INTEREST TO CONSTRUCT
DRIVEWAY AND CUT/FILL SLOPES

(98) 5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
J16678 I22 DOC#1150268

6.000m (19.68') WIDE
TEMPORARY INTEREST TO CONSTRUCT
DRIVEWAY AND CUT/FILL SLOPES

(17) WINTER LEASING, LLC

9.144m (30') WIDE
TEMPORARY INTEREST TO CONSTRUCT
DRIVEWAY AND CUT/FILL SLOPES

LOT 1
C.S.M. #2074

(21) APPLETON AREA SCHOOL DISTRICT
a Wisconsin Municipal Corporation

SW - NW

SE - NE

CITY OF

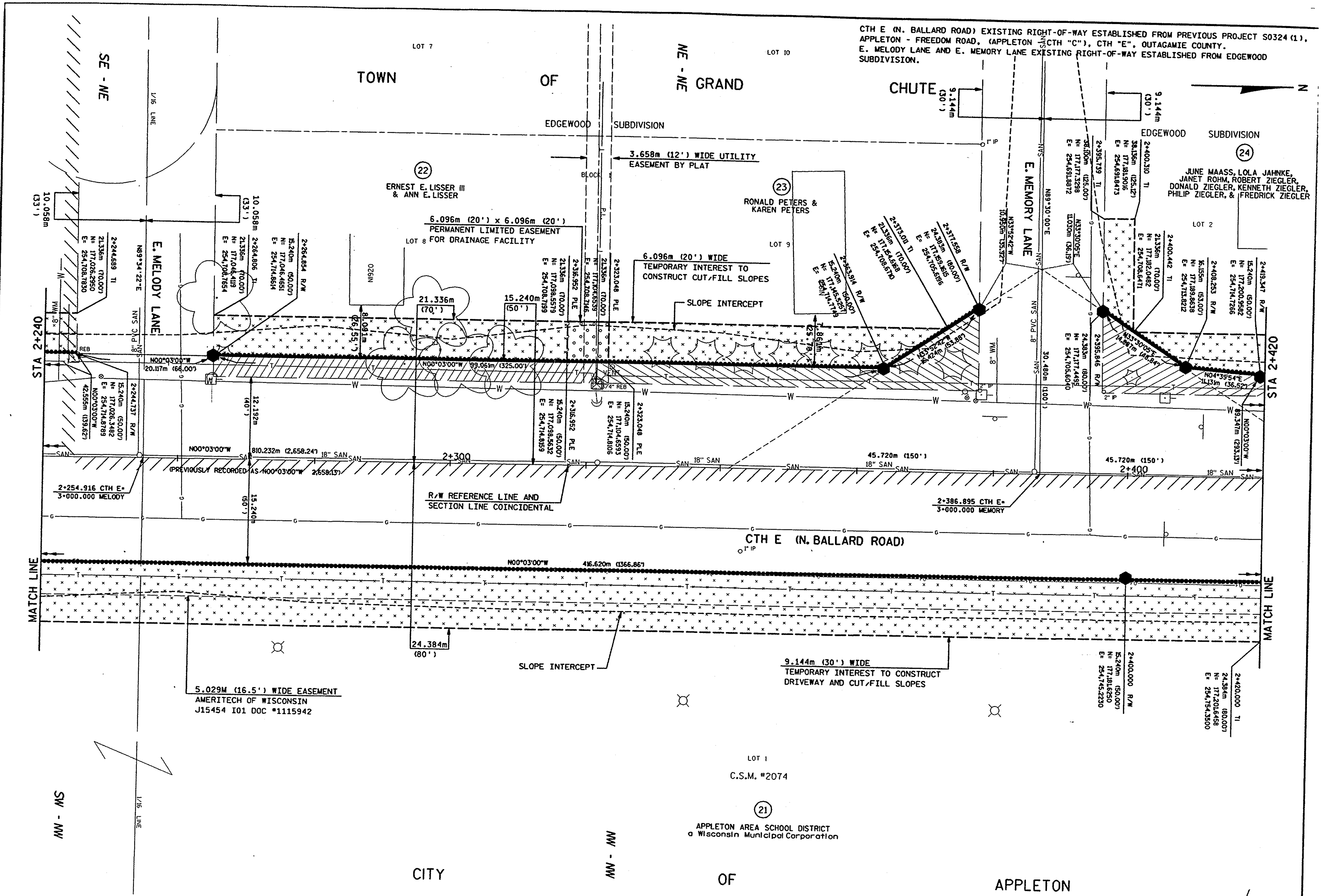
SEE SHEET 4.23

APPLETON 4984-00-97/4.11

REVISION DATE 04-23-99 10-15-99 11-01-99 N.C. 01-12-00	DATE 11-24-98 GRID FACTOR	SCALE, METERS 0 25	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	SHEET NO: 4.11 M
			COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	

FILE NAME: E1339A98/SHEETS /PLAT /4984011 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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, 59,60,61,62.

WISDOT: MSHT75



FILE NAME: E1339A98/SHEETS /PLAT /49840412 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99

REVISION DATE	DATE	SCALE, METERS	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	4984-00-97/4.12
04-23-99 10-15-99 N.C. 11-01-99 N.C. 01-12-00 N.C.	11-24-98 GRID FACTOR	0 — 25	COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.12 M

WISDOT: MSHT75

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C", CTH "E", OUTAGAMIE COUNTY. SHADY LANE EXISTING RIGHT-OF-WAY ESTABLISHED FROM EDGEWOOD SUBDIVISION.

TOWN OF GRAND CHUTE

N

(96) ANR PIPELINE COMPANY
VOLUME 378 PAGE 109

22.860m (75')

3.658m (12') WIDE UTILITY EASEMENT BY PLAT

EDGEWOOD SUBDIVISION
LOT 2
BLOCK 2

EDGEWOOD SUBDIVISION
LOT 1

(24) JUNE MAASS, LOLA JAHNKE, JANET ROHM, ROBERT ZIEGLER, DONALD ZIEGLER, KENNETH ZIEGLER, PHILIP ZIEGLER, & FREDRICK ZIEGLER
N5015

(26) HERBERT J. KLARNER & GLADYS I. KLARNER
N5035

(27) MARION L. VAN HANDEL REVOCABLE LIVING TRUST; MARION L. VAN HANDEL, TRUSTEE
N5107

18" H.P. GAS MAIN

18.288m (60.00')
(UNDEVELOPED)
SHADY LANE
N89°30'00"E
NE - NE

6.096m (20') WIDE
TEMPORARY INTEREST TO CONSTRUCT CUT/FILL SLOPES

18.656m (61.21')
18.829m (61.77')
19.588m (64.27')

21.366m (70')
15.240m (50')
21.336m (70')

6.096m (20') x 6.096m (20')
PERMANENT LIMITED EASEMENT FOR DRAINAGE FACILITY

6.096m (20') WIDE
TEMPORARY INTEREST TO CONSTRUCT CUT/FILL SLOPES

SLOPE INTERCEPT

1 AP

2+508.646 TI
21.336m (70.00')
N= 177,290.2523
E= 254,708.5926

2+526.934 TI
21.336m (70.00')
N= 177,308.5403
E= 254,708.5367

2+576.950 PLE
21.336m (70.00')
N= 177,358.5558
E= 254,708.4930

2+583.048 PLE
21.336m (70.00')
N= 177,364.6538
E= 254,708.4877

STA 2+420

STA 2+600

N00°03'00"W 89.347m (293.13')

N00°03'00"W 18.288m (60.00')

N00°03'00"W 94.353m (309.56')

2+508.694 R/W
15.240m (50.00')
N= 177,290.3055
E= 254,714.6486

2+526.982 R/W
15.240m (50.00')
N= 177,308.5935
E= 254,714.6326

2+576.950 PLE
15.240m (50.00')
N= 177,358.5612
E= 254,714.5890

2+583.048 PLE
15.240m (50.00')
N= 177,364.6592
E= 254,714.5837

12.192m (40')
15.240m (50')

SAN 18" SAN

N00°03'00"W 810.232m (2,658.24')
(PREVIOUSLY RECORDED AS N00°03'00"W 2,658.13')

2+500

R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL

2+517.958 CTH E=
3+000.000 SHADY

CTH E (N. BALLARD ROAD)

N00°03'00"W 416.620m (1,366.85')

MATCH LINE

MATCH LINE

24.384m (80')

SLOPE INTERCEPT

ASPHALT TENNIS COURT

9.144m (30') WIDE
TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
J15454 I01 DOC #1115942

30.480m (100')

2+420.000 TI
30.480m (100.00')
N= 177,270.6511
E= 254,760.4460

15.240m (50') WIDE
TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

2+480.000 TI
30.480m (100.00')
N= 177,261.6551
E= 254,760.3935

2+480.000 TI
24.384m (80.00')
N= 177,261.6458
E= 254,754.2976

NORTH HIGH SCHOOL

LOT 1
C.S.M. #2074

(21) APPLETON AREA SCHOOL DISTRICT
a Wisconsin Municipal Corporation

(21) APPLETON AREA SCHOOL DISTRICT
a Wisconsin Municipal Corporation

ANR PIPELINE COMPANY
VOLUME 524, PAGE 423

NW - NW

CITY OF APPLETON

4984-00-95,97/4.13

REVISION DATE 04-23-99 10-15-99 N.C. 11-01-99 N.C. 01-12-00 N.C.	DATE 11-24-98 GRID FACTOR	SCALE, METERS 0 25	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	SHEET NO: 4.13 M
			COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	

WisDOT: MSHT75

FILE NAME: E1339A98/SHEETS /PLAT /4984O413 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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, 59,60,61,62.

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY. CTH JJ (E. EDGEWOOD DRIVE) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT I.D. 6018-03-00, CTH E - CTH N, CTH JJ, OUTAGAMIE COUNTY.

SEE SHEET 4.20

MATCH LINE

STA 1EB+160

N

NE - NE

TOWN OF GRAND CHUTE

SE - SE

(27) MARION L. VAN HANDEL REVOCABLE LIVING TRUST; MARION L. VAN HANDEL, TRUSTEE

(34) TOM H. VAN HANDEL & MARY K. VAN HANDEL

3.048m (10') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

14.021m (46') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

6.096m (20') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

7.620m (25') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

CTH JJ

STA 2+600

STA 2+780

SLOPE INTERCEPT

R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL

2+662.159 CTH E = 1+220.00 CTH JJ

CTH E (N. BALLARD ROAD)

2+600

2+700

MATCH LINE

CHISELED "X" IN MH RIM 2+662.159, 0.000m RT N= 177,443.7836 E= 254,729.7546

(E. EDGEWOOD DRIVE)

13.716m (45') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

(28) MICHAEL D. KRAUS & KAREN A. KRAUS

3.048M (10') WIDE EASEMENT AMERITECH OF WISCONSIN J5241 I46

4.571m (15') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

(21) APPLETON AREA SCHOOL DISTRICT a Wisconsin Municipal Corporation

NW - NW

3.048m (10') WIDE UTILITY EASEMENT AMERITECH OF WISCONSIN J16178 I11 DOC #1136033 WISCONSIN ELECTRIC POWER COMPANY J16262 I45 DOC #1138383

LOT 1 C.S.M. #1732

4.571m (15') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

(36) RICHARD A. MUELLER

INGRESS-EGRESS EASEMENT J15851 I35 DOC #1126835

5.029m (16.5') WIDE EASEMENT AMERITECH OF WISCONSIN J16025 I23 DOC #1131610

7.620m (25') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

SW - SW

(37) JAMES H. GILLESPIE & MARY GILLESPIE

TOWN OF GRAND CHUTE

CITY OF APPLETON

SEE SHEET 4.21

REVISION DATE	DATE	SCALE, METERS	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	
04-23-99 10-15-99 11-01-99 N.C. 01-12-00 N.C.	11-24-98 GRID FACTOR	0 25	COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.14 M

4984-00-95/4.14

WISDOT: MSHT75

FILE NAME: E1339A98/SHEETS /PLAT /49840414 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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. 59.60.61.62.

TOWN OF GRAND CHUTE

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY.

N

ES - ES

(34) TOM H. VAN HANDEL & MARY K. VAN HANDEL

(39) THE DONALD J. VAN HANDEL FAMILY WISCONSIN LIMITED PARTNERSHIP

(42) JAMES PAUL TROST & CHYRA A. TROST

C.S.M. #3514

LOT 1

P.I.

6.096m (20') x 4.572m (15') PERMANENT LIMITED EASEMENT FOR DRAINAGE FACILITY

2+796.952 PLE 19.812m (65.00') N: 177,578.5231 E: 254,709.5833

2+803.048 PLE 19.812m (65.00') N: 177,584.4191 E: 254,709.3670

2+830.886 TI 22.860m (75.00') N: 177,612.4451 E: 254,706.4448

2+903.592 TI 24.384m (80.00') N: 177,685.1504 E: 254,704.7270

15.240m (50')

24.384m (80')

9.144m (30') WIDE TEMPORARY EASEMENT TO CONSTRUCT CUT/FILL SLOPES

SLOPE INTERCEPT

1AP

1AP

STA 2+780

STA 2+960

N00°09'10"W 274.891m (901.87')

2+796.952 PLE 15.240m (50.00') N: 177,578.6353 E: 254,714.1553

2+803.048 PLE 15.240m (50.00') N: 177,584.6313 E: 254,714.1390

12.192m (40')

12.192m (40')

R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL

2+800

2+900

18" SAN

N00°09'10"W 805.222m (2,641.80') (PREVIOUSLY RECORDED AS N00°09'14"W 2,641.68')

N00°09'10"W 702.929m (2,306.19')

CTH E (N. BALLARD ROAD)

MATCH LINE

MATCH LINE

N00°09'10"W 432.962m (1,420.47')

1AP

1AP

1AP

14.554m (47.80')

22.860m (75') 2+805.415 TI 22.860m (75.00') N: 177,587.1003 E: 254,752.2326

N5302

15.240m (50') 2+805.415 TI 25.908m (85.00') N: 177,587.1085 E: 254,755.2806

25.908m (85')

N5316

22.860m (75')

2+900.000 TI 25.908m (85.00') N: 177,681.6927 E: 254,755.0284

2+900.000 TI 22.860m (75.00') N: 177,681.6845 E: 254,751.9804

2+930.000 TI 22.860m (75.00') N: 177,711.6844 E: 254,751.9004

2+930.000 TI 19.812m (65.00') N: 177,711.6763 E: 254,748.8524

N5410

19.812m (65')

5.029m (16.5') WIDE EASEMENT AMERITECH OF WISCONSIN J16025 I23 DOC #1131610

10.668m (35') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

5.029m (16.5') WIDE EASEMENT AMERITECH OF WISCONSIN J16178 I15 DOC #1131610

5.029m (16.5') WIDE EASEMENT AMERITECH OF WISCONSIN J16025 I21 DOC #1131609

7.620m (25') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

4.572m (15') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

(37) JAMES H. GILLESPIE & MARY GILLESPIE

(38) WILLIAM D. GILLESPIE & JUDITH A. GILLESPIE

(41) LAWRENCE G. PETERSEN & RITA JANE PETERSEN

P.I.

P.I.

TOWN OF GRAND CHUTE

SW - SW

4984-00-95/4.15

REVISION DATE 04-23-99 10-15-99 11-01-99 N.C. 01-12-00	DATE 11-24-98 GRID FACTOR	SCALE, METERS 0 25	HWY: CTH E (N. BALLARD ROAD) COUNTY: OUTAGAMIE	FEDERAL PROJECT NO: 4984-00-96 STATE R/W PROJECT NO:	SHEET NO: 4.15 M

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1)
APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY.

(42) JAMES PAUL TROST & CHYRA A. TROST

(97) 3.658m (12') WIDE EASEMENT WISCONSIN ELECTRIC POWER CO.
(98) AMERITECH OF WISCONSIN
(99) TIME-WARNER CABLE
DOC #1289284

C.S.M. #3514

LOT 1

RAVENSWOOD CT.

TOWN OF GRAND CHUTE

(43) DAN L. HEYERDAHL & KAREN HEYERDAHL

LOT 2
WHITESIDE ESTATES

SE - SE

NE - SE

1/16 LINE

N

STA 2+960

STA 3+140

6.096m (20') WIDE
TEMPORARY INTEREST TO
CONSTRUCT CUT/FILL SLOPES

3.048m (10') WIDE
TEMPORARY INTEREST TO
CONSTRUCT CUT/FILL SLOPES

SLOPE INTERCEPT

24.384m (80')

21.336m (70')

15.240m (50')

DESCRIPTION LINE

N00°09'10"W 274.891m (901.87')

N00°09'10"W 384.840m (1,262.60')

S89°16'30"W 3.048m (10.00')

3/4" REB

R/W REFERENCE LINE AND
SECTION LINE COINCIDENTAL

3+000

3+100

N00°09'10"W 805.222m (2,641.80') (PREVIOUSLY RECORDED AS N00°09'14"W 2,641.68')

N00°09'10"W 702.929m (2,306.19')

N00°09'10"W 432.962m (1,420.47')

CTH E (N. BALLARD ROAD)

MATCH LINE

MATCH LINE

15.240m (50')

19.812m (65')

SLOPE INTERCEPT

5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
J16025 I21 DOC #1131609

4.572m (15') WIDE
TEMPORARY INTEREST TO CONSTRUCT
DRIVEWAY AND CUT/FILL SLOPES

5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
J16178 I05 DOC #1136030

6.096m (20') x 6.096m (20')
PERMANENT LIMITED EASEMENT
FOR DRAINAGE FACILITY

(41) LAWRENCE G. PETERSEN & RITA JANE PETERSEN

(44) STEVEN R. PETERSEN

(46) NORBERT G. SCHABO & LINDA L. SCHABO

SW - SW

NW - SW

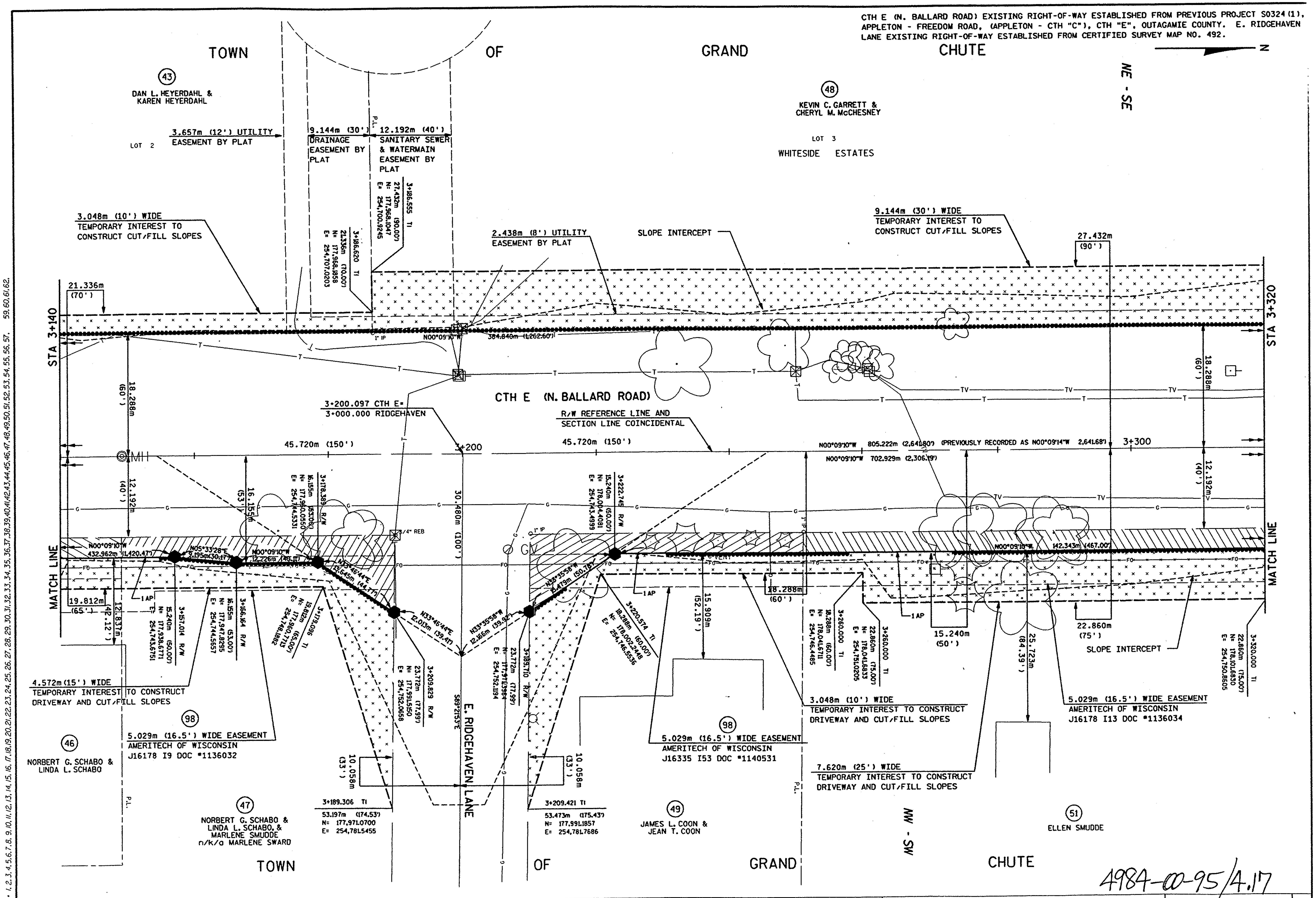
TOWN OF GRAND CHUTE

4984-00-95/4.16

REVISION DATE 04-23-99 10-15-99 11-01-99 N.C. 01-12-00 N.C.	DATE 11-24-98 GRID FACTOR	SCALE, METERS 0 25	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	SHEET NO: 4.16 M
			COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	

FILE NAME: E1339A98/SHEETS /PLAT /4984O416 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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, 59,60,61,62.

WISDOT: MSHT75



CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY. E. RIDGEHAVEN LANE EXISTING RIGHT-OF-WAY ESTABLISHED FROM CERTIFIED SURVEY MAP NO. 492.
TOWN OF GRAND CHUTE
N
NE - SE
43
DAN L. HEYERDAHL & KAREN HEYERDAHL
LOT 2
3.657m (12') UTILITY EASEMENT BY PLAT
9.144m (30') DRAINAGE EASEMENT BY PLAT
12.192m (40') SANITARY SEWER & WATERMAIN EASEMENT BY PLAT
48
KEVIN C. GARRETT & CHERYL M. McCHESNEY
LOT 3
WHITESIDE ESTATES
3.048m (10') WIDE TEMPORARY INTEREST TO CONSTRUCT CUT/FILL SLOPES
2.438m (8') UTILITY EASEMENT BY PLAT
SLOPE INTERCEPT
9.144m (30') WIDE TEMPORARY INTEREST TO CONSTRUCT CUT/FILL SLOPES
27.432m (90')
21.336m (70')
STA 3+140
STA 3+320
CTH E (N. BALLARD ROAD)
3+200.097 CTH E= 3+000.000 RIDGEHAVEN
R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL
45.720m (150')
3+200
3+300
N00°09'10"W 805.222m (2,641.80') (PREVIOUSLY RECORDED AS N00°09'14"W 2,641.68')
N00°09'10"W 702.929m (2,306.19')
18.288m (60')
12.192m (40')
30.480m (100')
MATCH LINE
MATCH LINE
E. RIDGEHAVEN LANE
4.572m (15') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES
98
5.029m (16.5') WIDE EASEMENT AMERITECH OF WISCONSIN J16178 I9 DOC #1136032
46
NORBERT G. SCHABO & LINDA L. SCHABO
47
NORBERT G. SCHABO & LINDA L. SCHABO, & MARLENE SMUDDE n/k/a MARLENE SWARD
3+189.306 TI 53.197m (174.53') N= 177,971.0700 E= 254,781.5455
3+209.421 TI 53.473m (175.43') N= 177,991.1857 E= 254,781.7686
5.029m (16.5') WIDE EASEMENT AMERITECH OF WISCONSIN J16335 I53 DOC #1140531
49
JAMES L. COON & JEAN T. COON
3.048m (10') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES
7.620m (25') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES
5.029m (16.5') WIDE EASEMENT AMERITECH OF WISCONSIN J16178 I13 DOC #1136034
22.860m (75')
15.240m (50')
SLOPE INTERCEPT
NW - SW
51
ELLEN SMUDDE
4984-00-95/4.17

REVISION DATE	DATE	SCALE, METERS	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	
04-23-99 N.C. 10-15-99 N.C. 11-01-99 N.C. 01-12-00 N.C.	11-24-98 GRID FACTOR	0 — 25	COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.17 M

FILE NAME: E1339A98/SHEETS /PLAT /49840417 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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,…59,60,61,62.

WISDOT: MSHT75

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY AND WHITESIDE ESTATES SUBDIVISION.

TOWN OF GRAND CHUTE

N

NE - SE

SE - NE

LOT 3
WHITESIDE ESTATES

(48) KEVIN C. GARRETT & CHERYL M. McCHESNEY

(53) THE MUELLER FAMILY LIMITED PARTNERSHIP

BERNTSEN MONUMENT
N=178,241.2082
E= 253,924.1819

T 21 N R 17 E 1

N89°26'39"E 803.464m (2,636.03') (PREVIOUSLY RECORDED AS N89°26'35"E 2,636.03')

1/4 LINE

9.144m (30') WIDE TEMPORARY INTEREST TO CONSTRUCT CUT/FILL SLOPES

SLOPE INTERCEPT

2.438m (8') UTILITY EASEMENT BY PLAT

12.192m (40') WIDE TEMPORARY INTEREST TO CONSTRUCT CUT/FILL SLOPES

27.432m (90')

24.384m (80')

STA 3+320

3+394.760 R/W
18.288m (60.00')
N= 178,176.3331
E= 254,709.5333

3+400.000 R/W
24.384m (60.00')
N= 178,191.5568
E= 254,703.3767

3+425.240 R/W
24.384m (60.00')
N= 178,204.1961
E= 254,703.3361

3+440.480 R/W
15.240m (50.00')
N= 178,222.0650
E= 254,712.4394

3+467.274 R/W
15.240m (50.00')
N= 178,248.8547
E= 254,712.3683

3+467.381 TI
27.432m (90.00')
N= 178,248.9383
E= 254,700.1757

3+467.396 BK= R/W
3+467.376 AH
15.240m (50.00')
N= 178,248.9668
E= 254,712.3677

27.432m (90')

N00°09'10"W 384.840m (1,262.60')

N00°09'10"W 15.240m (50.00')

N27°48'15"E 18.144m (59.85')

N30°48'39"E 17.717m (58.14')

N00°09'10"W 26.794m (87.93')

N00°06'55"W 123.547m (405.34')

N00°09'10"W 0.112m (0.37')

N89°28'39"E 15.240m (50.00')

15.240m (50')

STA 3+500

N00°06'55"W 123.542m (405.32')

N00°06'55"W 132.619m (435.10')

N00°06'55"W 571.667m (1,875.54')
(PREVIOUSLY RECORDED AS N00°06'55"W 1,875.69')

CTH E (N. BALLARD ROAD)

R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL

N00°09'10"W 805.222m (2,641.80')
N00°09'10"W 702.929m (2,306.19')

(PREVIOUSLY RECORDED AS N00°09'14"W 2,641.68')

3+400

N00°09'10"W 102.291m (335.61')

18.288m (60')

12.192m (40')

N89°50'50"E 15.240m (50.00')

RR SPIKE
3+467.381
N= 178,249.0025
E= 254,727.6076
0.000m RT

T 21 N R 18 E 6

S89°27'26"E 921.683m (3,023.89')
(PREVIOUSLY RECORDED AS S89°27'34"E 3,023.94')

MATCH LINE

N00°09'10"W 142.343m (467.00')

19.812m (65')

15.240m (50')

3+320.000 TI
19.812m (65.00')
N= 178,101.5749
E= 254,747.8125

3+355.088 R/W
15.240m (50.00')
N= 178,146.7509
E= 254,743.1203

3+369.246 TI
19.812m (65.00')
N= 178,167.9208
E= 254,747.6359

SLOPE INTERCEPT

4.572m (15') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
J16178 I13 DOC #1136034

5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
J16025 I27 DOC #1131612

LAVERN F. MULLEN &
DONNA M. MULLEN a/k/a DONNA MAY MULLEN

NW - SW

SW - NW

MATCH LINE

(51) ELLEN SMUDDE

(52) DUANE L. FOX & SHARON A. FOX

TOWN OF GRAND CHUTE

BERNTSEN MONUMENT
N=178,240.2703
E= 255,649.2497

T 21 N R 18 E 6

1/4 LINE

ROBERT KOLESKE & MARCELLA KOLESKE,
JAMES KOLESKE & AUDREY KOLESKE,
EDWARD KOLESKE & PATRICIA KOLESKE,
DONALD KOLESKE

4984-00-95/4.18

REVISION DATE	DATE	SCALE, METERS	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96		
04-23-99 N.C. 10-15-99 N.C. 11-01-99 N.C. 01-12-00 N.C.	11-24-98	0 25	COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.18	M
	GRID FACTOR					

FILE NAME: E1339A98/SHEETS /PLAT /4984041B .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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, 59,60,61,62.

WISDOT: MSHT75

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324 (1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY.

TOWN OF GRAND CHUTE

SE - NE

12.192m (40') WIDE TEMPORARY INTEREST TO CONSTRUCT CUT/FILL SLOPES

THE MUELLER FAMILY LIMITED PARTNERSHIP

ESTHER METCHER ESTATE; ROBIN ZULEGER, PERSONAL REPRESENTATIVE

3+590.912 T1
27.432m (90.00')
N= 178,372.4719
E= 254,699.9211

SLOPE INTERCEPT

27.432m (90')

APPLE CREEK ROAD

N

STA 3+500

STA 3+680

15.240m (50.0')

N00°06'55"W 123.541m (405.34')

N89°53'05"E 15.240m (50.00')

3+590.923 R/W
15.240m (50.00')
N= 178,372.5139
E= 254,712.1191

R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL

3+500

N00°06'55"W 123.542m (405.32')
N00°06'55"W 132.619m (435.10')

3+600

N00°06'55"W 439.047m (1,440.44')

N00°06'55"W 571.667m (1,875.54')
(PREVIOUSLY RECORDED AS N00°06'55"W 1,875.69')

MATCH LINE

CTH E (N. BALLARD ROAD)

END RELOCATION ORDER
STA 3+600.000
N = 178,381.6210
E = 254,727.3408

RR SPIKE
N= 178,820.6685
E= 254,726.4599

36 31 1 6 R19E R18E T22N T21N

SLOPE INTERCEPT

FO

SW - NW

ROBERT KOLESKE & MARCELLA KOLESKE,
JAMES KOLESKE & AUDREY KOLESKE,
EDWARD KOLESKE & PATRICIA KOLESKE,
DONALD KOLESKE

P.L.

SW - NW

DONALD KOLESKE,
GRACE KOLESKE, LIFE ESTATE

P.L.

BRUCE H. LILLGE &
NANCY E. LILLGE

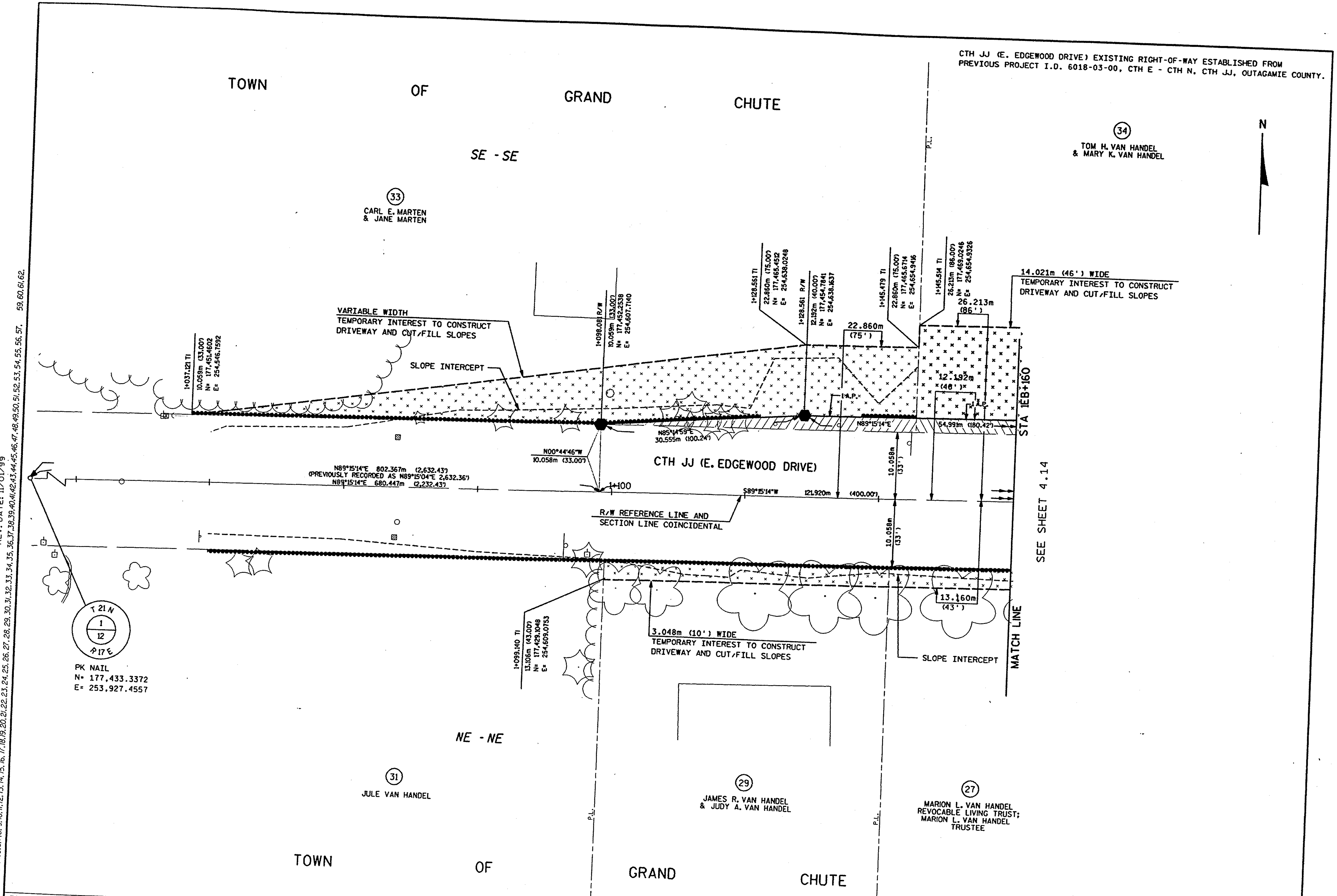
TOWN OF GRAND CHUTE

4984-00-95/4.19

REVISION DATE 04-23-99 N.C. 10-15-99 N.C. 11-01-99 N.C. 01-12-00 N.C.	DATE 11-24-98	SCALE, METERS 0 25	HWY: CTH E (N. BALLARD ROAD)	FEDERAL PROJECT NO: 4984-00-96	
	GRID FACTOR		COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.19 M

FILE NAME: E1339498/SHEETS /PLAT /49840419 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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, 59,60,61,62.

WISDOT: MSHT75



CTH JJ (E. EDGEWOOD DRIVE) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT I.D. 6018-03-00, CTH E - CTH N, CTH JJ, OUTAGAMIE COUNTY.
TOWN OF GRAND CHUTE
SE - SE
N
33
CARL E. MARTEN & JANE MARTEN
34
TOM H. VAN HANDEL & MARY K. VAN HANDEL
VARIABLE WIDTH TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES
SLOPE INTERCEPT
14.021m (46') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES
1+037.121 TI 10.059m (33.00') N= 177,451.4602 E= 254,546.7592
1+098.081 R/W 10.059m (33.00') N= 177,452.2538 E= 254,607.7140
1+128.551 TI 22.860m (75.00') N= 177,465.4512 E= 254,638.0248
1+128.561 R/W 12.192m (40.00') N= 177,454.7841 E= 254,638.1637
1+145.479 TI 22.860m (75.00') N= 177,465.6714 E= 254,654.9416
1+145.514 TI 26.213m (86.00') N= 177,469.0246 E= 254,654.9326
22.860m (75')
26.213m (86')
12.192m (40')
N89°15'14"E
54.991m (180.42')
STA 1EB+160
N85°14'59"E 30.555m (100.24')
N00°44'46"W 10.058m (33.00')
CTH JJ (E. EDGEWOOD DRIVE)
N89°15'14"E 802.367m (2,632.43') (PREVIOUSLY RECORDED AS N89°15'04"E 2,632.36')
N89°15'14"E 680.447m (2,232.43')
1+100
S89°15'14"W 121.920m (400.00')
10.058m (33')
10.058m (33')
R/W REFERENCE LINE AND SECTION LINE COINCIDENTAL
SEE SHEET 4.14
MATCH LINE
T 21 N 1 12 R 17 E
PK NAIL N= 177,433.3372 E= 253,927.4557
1+099.140 TI 13.106m (43.00') N= 177,429.1048 E= 254,609.0753
3.048m (10') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES
SLOPE INTERCEPT
13.160m (43')
NE - NE
31
JULE VAN HANDEL
29
JAMES R. VAN HANDEL & JUDY A. VAN HANDEL
27
MARION L. VAN HANDEL REVOCABLE LIVING TRUST; MARION L. VAN HANDEL TRUSTEE
TOWN OF GRAND CHUTE
P.L.

FILE NAME: E1339A98/SHEETS /PLAT /49840420 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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, 59,60,61,62.

REVISION DATE	DATE	SCALE, METERS	HWY: CTH JJ (E. EDGEWOOD DR)	FEDERAL PROJECT NO: 4984-00-96	
04-23-99 10-15-99 11-01-99 N.C. 01-12-00	11-24-98 GRID FACTOR	0 — 25	COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.20 M

4984-00-95/4.20

CTH JJ (E. EDGEWOOD DRIVE) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT I.D. 6018-03-00, CTH E - CTH N, CTH JJ, OUTAGAMIE COUNTY.

CITY OF APPLETON

TOWN OF GRAND CHUTE

5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
J16178 I11 DOC #1136033

(36)
RICHARD A. MUELLER

3.048m (10') WIDE EASEMENT
WISCONSIN ELECTRIC POWER COMPANY
J16262 I45 DOC #1138383

LOT 1
C.S.M. #1732

(37)
JAMES H. GILLESPIE &
MARY GILLESPIE

SW - SW

P.L.

INGRESS - EGRESS EASEMENT
FOR LANDS TO THE EAST

4.572m (15') WIDE
TEMPORARY INTEREST TO CONSTRUCT
DRIVEWAY AND CUT/FILL SLOPES

SLOPE INTERCEPT

17.145m
(56.25')

1+372.401 TI
17.145m (56.25')
N= 177,461.6822
E= 254,882.0762

1+372.401 TI
12.573m (41.25')
N= 177,457.0403
E= 254,882.0967

N

STA 1EB+280

SEE SHEET 4.14

CTH JJ (E. EDGEWOOD DRIVE)

R/W REFERENCE LINE AND
SECTION LINE COINCIDENTAL

12.573m
(41.25')

1+300

N89°44'35"E 913.216m (2,996.11')
(PREVIOUSLY RECORDED AS N89°44'25"E 2,996.14')
N89°44'35"E 867.496m (2,846.11')

1+400

MATCH LINE

1AP

3.048m (10') WIDE EASEMENT
AMERITECH OF WISCONSIN
J5241 I46

SLOPE INTERCEPT

AMERITECH OF WISCONSIN
J16263 I23 DOC #1138400
J10362 I11 DOC #982076

4.572m (15') WIDE
TEMPORARY INTEREST TO CONSTRUCT
DRIVEWAY AND CUT/FILL SLOPES

17.145m
(56.25')

1+372.401 TI
17.145m (56.25')
N= 177,427.3223
E= 254,882.2300

1+372.401 TI
12.573m (41.25')
N= 177,431.8945
E= 254,882.2095

T 21 N
6
7
R 18 E

PK NAIL
N= 177,447.8810
E= 255,642.9610

TOWN OF GRAND CHUTE

(28)
MICHAEL D. KRAUS &
KAREN A. KRAUS

P.L.

LOT 1
C.S.M. #2074

(21)
APPLETON AREA SCHOOL DISTRICT
a Wisconsin Municipal Corporation

NW - NW

5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
J15454 I01 DOC #1115942

22.860m (75')
ANR PIPELINE COMPANY
V524 P423

CITY OF APPLETON

4984-00-95/4.21

REVISION DATE 04-23-99 N.C. 10-15-99 11-01-99 N.C. 01-12-00 N.C.	DATE 11-24-98 GRID FACTOR	SCALE, METERS 0 25	HWY: CTH JJ (E. EDGEWOOD DR)	FEDERAL PROJECT NO: 4984-00-96	
			COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.21 M

FILE NAME: E1339A98/SHEETS /PLAT /49840421 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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. 59.60.61.62.

WISDOT: MSHT75

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY.
ASHBURY DRIVE (WEST OF CTH E) EXISTING RIGHT-OF-WAY ESTABLISHED FROM ASHBURY MEADOWS SUBDIVISION.
ASHBURY DRIVE (EAST OF CTH E) EXISTING RIGHT-OF-WAY ESTABLISHED FROM CERTIFIED SURVEY MAP NO. 2074.

CITY OF APPLETON

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7

ASHBURY MEADOWS

DEVONSHIRE DRIVE

ASHBURY DRIVE

CTH E (N. BALLARD ROAD)

(19) HERITAGE DEVELOPMENT COMPANY, LLC

(20) KURT H. PLANTIKOW & MELISSA PLANTIKOW

(21) APPLETON AREA SCHOOL DISTRICT a Wisconsin Municipal Corporation

(17) WINTER LEASING, LLC

(18) LESLIE WOLDT

RESTRICTED DEVELOPMENT EASEMENT FOR VISION CORNER

3.000m (9.84') WIDE TEMPORARY INTEREST TO CONSTRUCT CUT/FILL SLOPES

6.000m (19.68') WIDE TEMPORARY INTEREST TO CONSTRUCT CUT/FILL SLOPES

3.000m (9.84') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

3.048m (10') WIDE EASEMENT WISCONSIN ELECTRIC POWER CO. J16455 I39 DOC#1143790

4.000m (13.12') WIDE TEMPORARY INTEREST TO CONSTRUCT CUT/FILL SLOPES

SLOPE INTERCEPT

PI 2+104.355
PC 2+097.879
PI 2+133.200
PT 2+143.730
2+100
2+200
2+157.050 CTH E = 2+182.073 ASHBURY

N88°08'33"E
N86°42'16"E
N87°34'58"E
N32°37'32"E
N34°43'18"W

2+202.182 R/W
2+193.032 R/W
2+177.583 R/W
2+163.456 R/W
2+145.158 R/W
2+141.168 TI
2+133.363 R/W
2+191.600 R/W
2+191.600 TI
2+191.600 R/W
2+145.908 R/W
2+139.908 TI
2+136.305 R/W
2+108.362 R/W
2+099.212 R/W

TOWN OF GRAND CHUTE

SE - NE

4984-00-97/4.22

REVISION DATE 04-23-99, 10-15-99, 11-01-99 N.C., 01-12-00	DATE 11-24-98	SCALE, METERS 0 25	HWY: ASHBURY DRIVE	FEDERAL PROJECT NO: 4984-00-96	
	GRID FACTOR		COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.22 M

FILE NAME: E1339A98/SHEETS /PLAT /49840422 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
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, 59,60,61,62.

WisDOT: MSHT7S

CTH E (N. BALLARD ROAD) EXISTING RIGHT-OF-WAY ESTABLISHED FROM PREVIOUS PROJECT S0324(1), APPLETON - FREEDOM ROAD, (APPLETON - CTH "C"), CTH "E", OUTAGAMIE COUNTY.
ASHBURY DRIVE (WEST OF CTH E) EXISTING RIGHT-OF-WAY ESTABLISHED FROM ASHBURY MEADOWS SUBDIVISION.
ASHBURY DRIVE (EAST OF CTH E) EXISTING RIGHT-OF-WAY ESTABLISHED FROM CERTIFIED SURVEY MAP NO. 2074.

N

CITY OF APPLETON

ASHBURY MEADOWS

LOT 6

(19) HERITAGE DEVELOPMENT COMPANY, LLC

LOT 1 C.S.M. #2074

(21) APPLETON AREA SCHOOL DISTRICT a Wisconsin Municipal Corporation

CTH E (N. BALLARD ROAD)

(PREVIOUSLY RECORDED AS N00°03'00"W 2,658.13')

EXISTING R/W LINE N89°57'00"E 76.200m (250.00')

SLOPE INTERCEPT

4.568m (15.00') WIDE TEMPORARY INTEREST TO CONSTRUCT DRIVEWAY AND CUT/FILL SLOPES

ASHBURY DRIVE

PI 2+279.984

PI 2+183.726

CTH E = ASHBURY

TOWN OF GRAND HUTE

(18) LESLIE WOLDT

(17) WINTER LEASING, LLC

5.029m (16.5') WIDE EASEMENT
AMERITECH OF WISCONSIN
J16678 I22 DOC #1150268

6.000m (19.68') WIDE TEMPORARY INTEREST TO CONSTRUCT AND CUT/FILL SLOPES

3.000m (9.84') WIDE TEMPORARY INTEREST TO CONSTRUCT AND CUT/FILL SLOPES

CITY OF APPLETON

SE - NE

SW - NW

4984-00-97/4.23

REVISION DATE 04-23-99, 10-15-99, 11-01-99 N.C., 01-12-00	DATE 11-24-98	SCALE, METERS 0 25	HWY: ASHBURY DRIVE	FEDERAL PROJECT NO: 4984-00-96	
	GRID FACTOR		COUNTY: OUTAGAMIE	STATE R/W PROJECT NO:	SHEET NO: 4.23 M

FILE NAME: E1339A98/SHEETS /PLAT /4984023 .DGN TECH/ENGR: CRK/PTR PLOT DATE: 11/01/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: 11/01/99
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,59,60,61,62.

WISDOT: MSHT75

EXTEND STRUCTURE C-44-84

EXIST R/W

CONC SIDEWALK, 100 mm

SLOPE INTERCEPT

CONC CURB AND GUTTER, 750 mm, TYPE A

TI

CAUTION

R/W

EXIST R/W

AID ASSOCIATION FOR LUTHERANS

FULL DEPTH SAWCUT AND MATCH EXISTING

B'+000

1'SB'+020

PI 1'SB'+050.006

PI 1'NB'+049.997

PI 1'NB'+055.501

PI 1'NB'+061.531

27" SAN

SAN

CONC

ASPH

+64.54SB

2.13 m X 3.66 m CULV.

+69.09NB

REMOVE CURB AND GUTTER

CTH E (N. BALLARD ROAD)

1'SB'+100

SB R/L

+101.89NB

PI 1'NB'+001.911

1'NB'+100

NB R/L

300 mm

CONC SIDEWALK, 100 mm

950 mm X 1500 mm

+65.47NB

+74.21NB

+77.27NB

ASPH

SLOPE INTERCEPT

CONC CURB AND GUTTER, 750 mm, TYPE A

MARVIN G. ERNST & ILENE E. ERNST

ASPHALTIC SURFACE

+131.89SB

CONC CURB AND GUTTER, 450 mm, TYPE A

PI 1'NB'+131.927

REMOVE CURB AND GUTTER

RECONSTRUCT MH

3.3 m

3.0 m

2.4 m

4.8 m

STA 1'NB'+180

MATCH LINE

GRAVEL

VENT

REMOVE 14 m X 375 mm CSCP

RICHARD D. WITTMANN

BEGIN PROJECT 4984-00-97
STA 1'NB'+055.500

EVERGREEN DRIVE

EXIST R/W

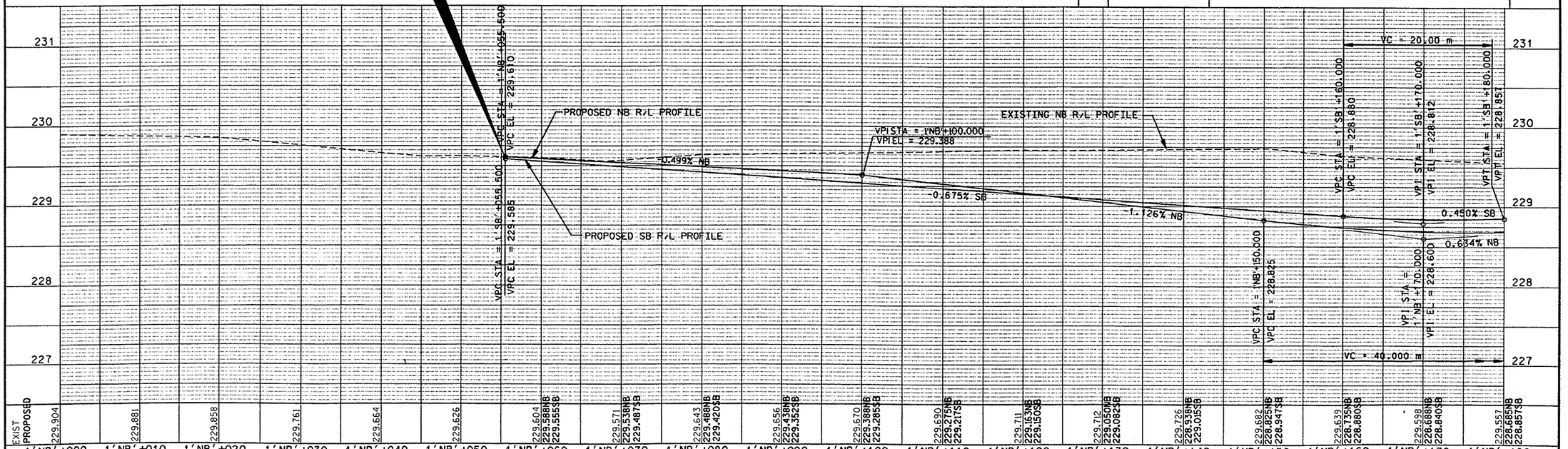
BM1

CITY OF APPLETON, a Wisconsin Municipal Corporation

SCALES:
1M = 250M HOR
1M = 25M VER

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM1	1'NB'+067.3, 14 m RT	D.O.T. CAP ON EAST END BOX CULVERT AT EVERGREEN RD	229.228



PLAN AND PROFILE - CTH E (N. BALLARD RD) | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 5.1 | M

N

AID ASSOCIATION FOR LUTHERANS

CAUTION

SLOPE INTERCEPT

PLE

TI

CONC CURB AND GUTTER, 750 mm, TYPE A

CONC SIDEWALK, 100 mm

FE

STA 1'NB'+180

STA 1'NB'+360

MATCH LINE

MATCH LINE

ASPHALTIC SURFACE

CONC CURB AND GUTTER, 450 mm, TYPE A

1'SB'+200

SB R/L

PI 1'SB'+260.000

RECONSTRUCT MH

PI 1'NB'+260.037

1'NB'+200

NB R/L

375 mm

ADJUST MH

950 mm X 1500 mm

300 mm

EXIST R/W

R/W

CTH E (N. BALLARD ROAD)

PI 1'SB'+286.202

1'SB'+300

1'NB'+300

ASPH

PI 1'NB'+286.039

1'NB'+286.085=
4+000.000

450 mm CULV.

CONC SIDEWALK, 100 mm

CONC CURB AND GUTTER, 750 mm, TYPE A

GRAVEL

SLOPE INTERCEPT

REMOVE 39 m X 450 mm CSCP

75 mm ASPHALTIC CONCRETE PAVEMENT, TYPE MV (30 mm UPPER COURSE OVER 45 mm LOWER COURSE) OVER 300 mm CRUSHED AGREGATE BASE COURSE

BM2

SILVER LEAF COURT

ASPH

8" PVC SAN

4+020

+028.86

300 mm

ADJUST MH

SILVER LEAF R/L

SCALES:
1M = 250M HOR
1M = 25M VER

RICHARD D. WITTMANN

NORTH MEADOWS INVESTMENT LTD

MAPLE WOOD ESTATES, INC.

MAPLE WOOD ESTATES, INC.

DONALD J. VAN HANDEL & JOAN B. VAN HANDEL

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM2	1'NB'+275.6, 14 m RT	PK NAIL IN LIGHTPOLE SE CORNER OF BALLARD & SILVERLEAF	229.469

231
230
229
228
227

VC = 40.000 m
VPI STA = 1'NB'+190.000
VPI EL = 228.727

PROPOSED SB R/L PROFILE

0.450% SB
0.634% NB

PROPOSED NB R/L PROFILE

VPC STA = 1'NB'+245.000
VPC EL = 229.076

VPI STA = 1'NB'+260.000
VPI EL = 229.113

VC = 30.000 m

VPI STA = 1'SB'+260.000
VPI EL = 229.271

EXISTING NB R/L PROFILE

VPI STA = 1'NB'+275.000
VPI EL = 229.111

VPI STA = 1'NB'+350.000
VPI EL = 228.811

-0.445% SB
-0.400% NB

0.462% NB

	1'NB'+180	1'NB'+190	1'NB'+200	1'NB'+210	1'NB'+220	1'NB'+230	1'NB'+240	1'NB'+250	1'NB'+260	1'NB'+270	1'NB'+280	1'NB'+290	1'NB'+300	1'NB'+310	1'NB'+320	1'NB'+330	1'NB'+340	1'NB'+350	1'NB'+360
EXIST	229.557	229.584	229.612	229.608	229.605	229.599	229.599	229.604	229.610	229.620	229.630	229.621	229.597	229.603	229.609	229.599	229.590	229.592	229.594
PROPOSED	228.685NB 228.857SB	228.727NB 228.902SB	228.790NB 228.947SB	228.854NB 228.992SB	228.917NB 229.037SB	228.980NB 229.082SB	229.044NB 229.127SB	229.103NB 229.172SB	229.132NB 229.217SB	229.127NB 229.173SB	229.090NB 229.128SB	229.051NB 229.084SB	229.010NB 229.039SB	228.957NB 228.995SB	228.931NB 228.950SB	228.891NB 228.905SB	228.850NB 228.861SB	228.810NB 228.816SB	228.856NB 228.772SB

PLAN AND PROFILE - CTH E (N. BALLARD RD)

0 5 10

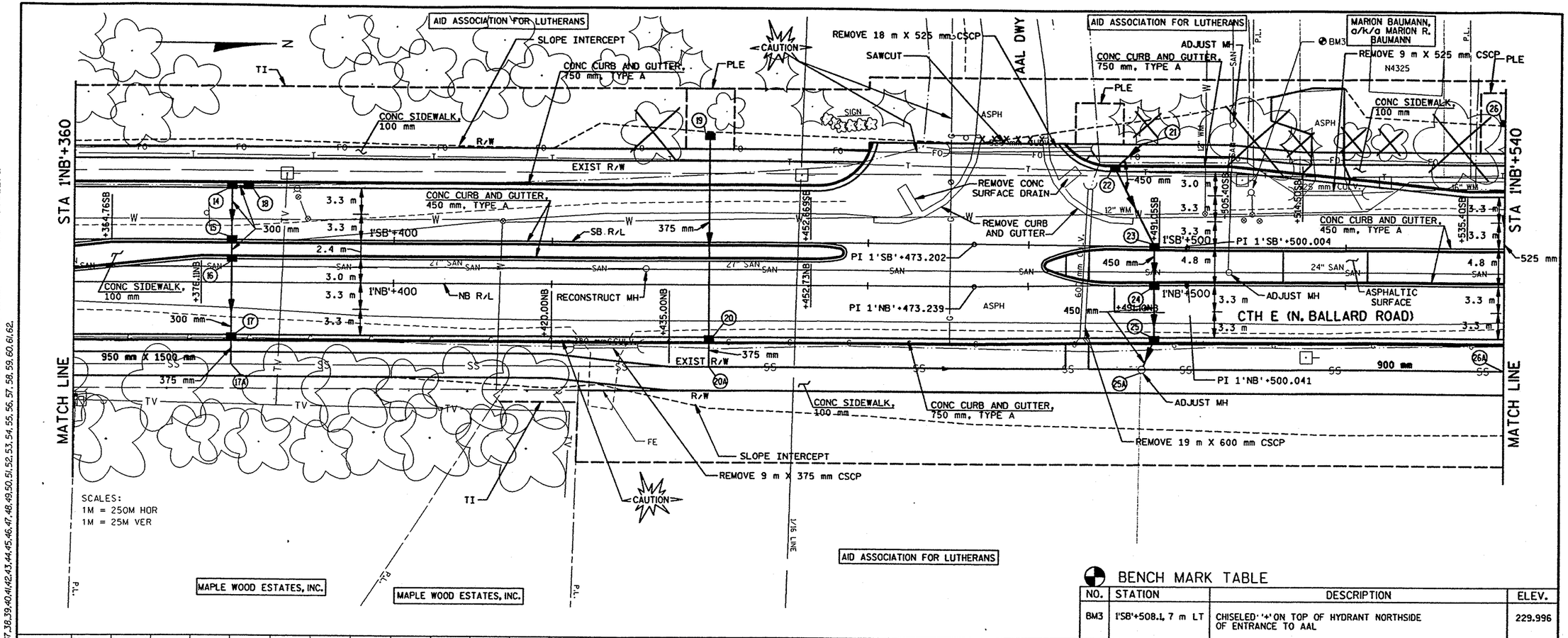
HWY: CTH E

COUNTY: OUTAGAMIE

STATE PROJECT NO: 4984-00-97

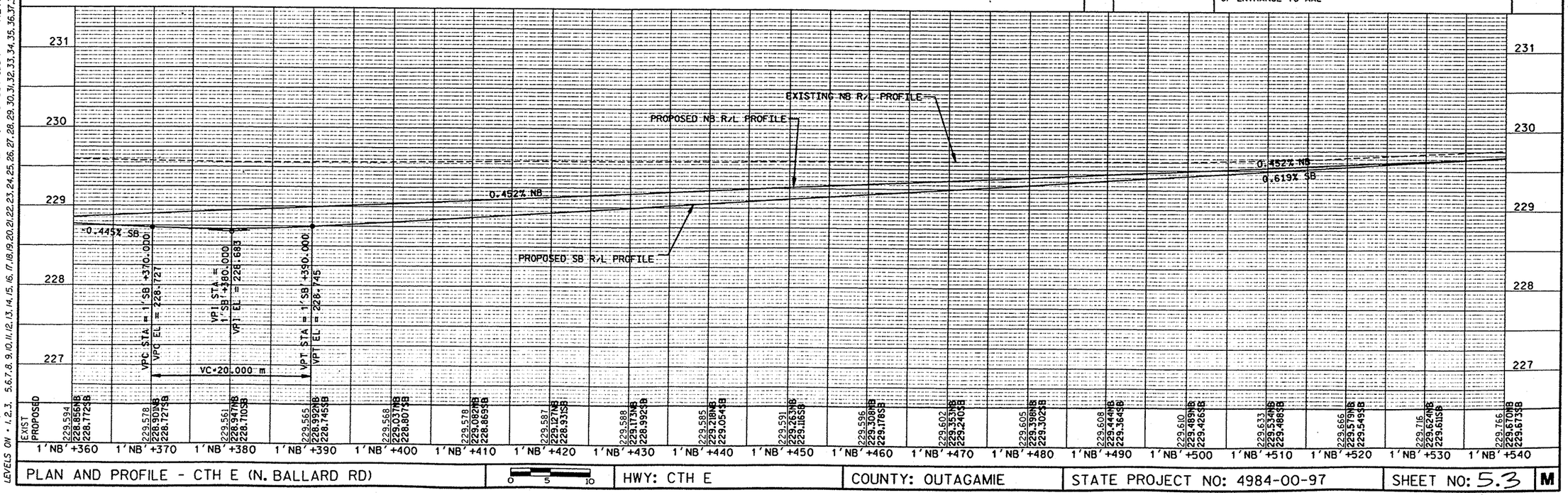
SHEET NO: 5.2 M

WisDOT: MSHT40



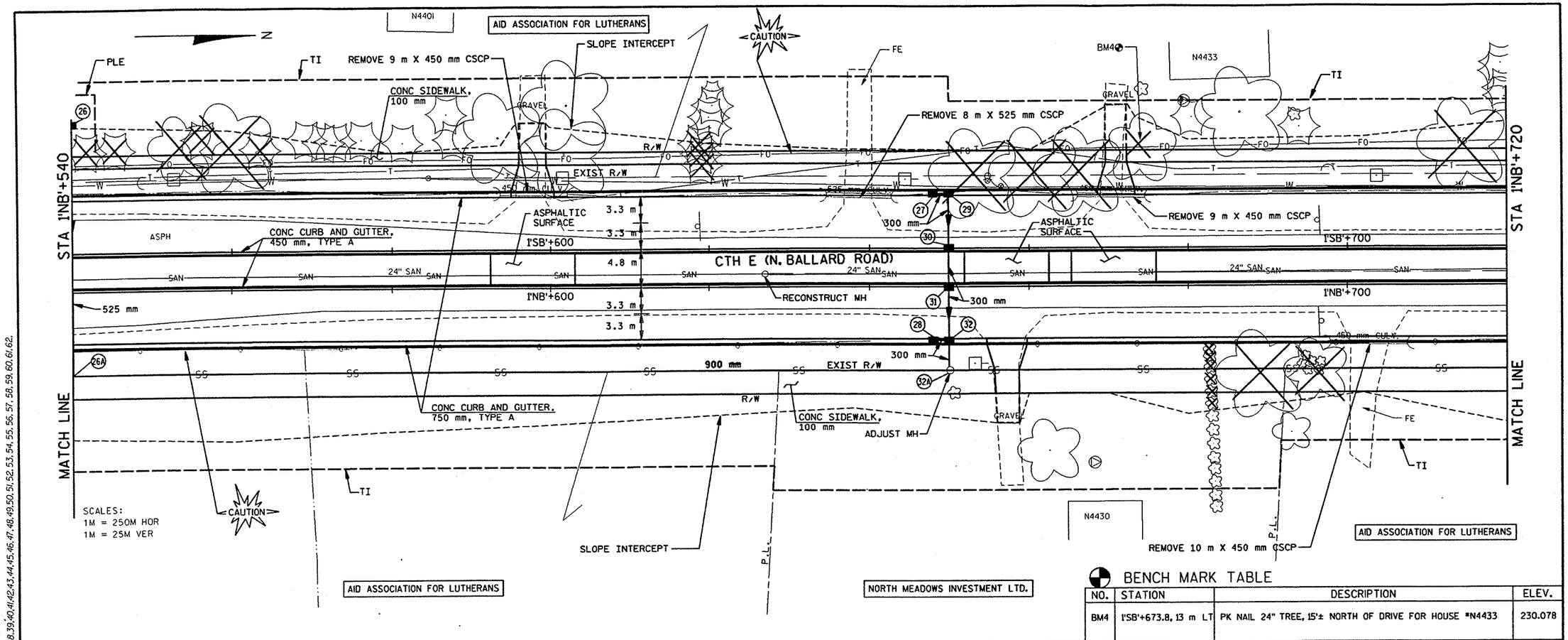
BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM3	1'SB'+508.1, 7 m LT	CHISELED '+' ON TOP OF HYDRANT NORTHSIDE OF ENTRANCE TO AAL	229.996



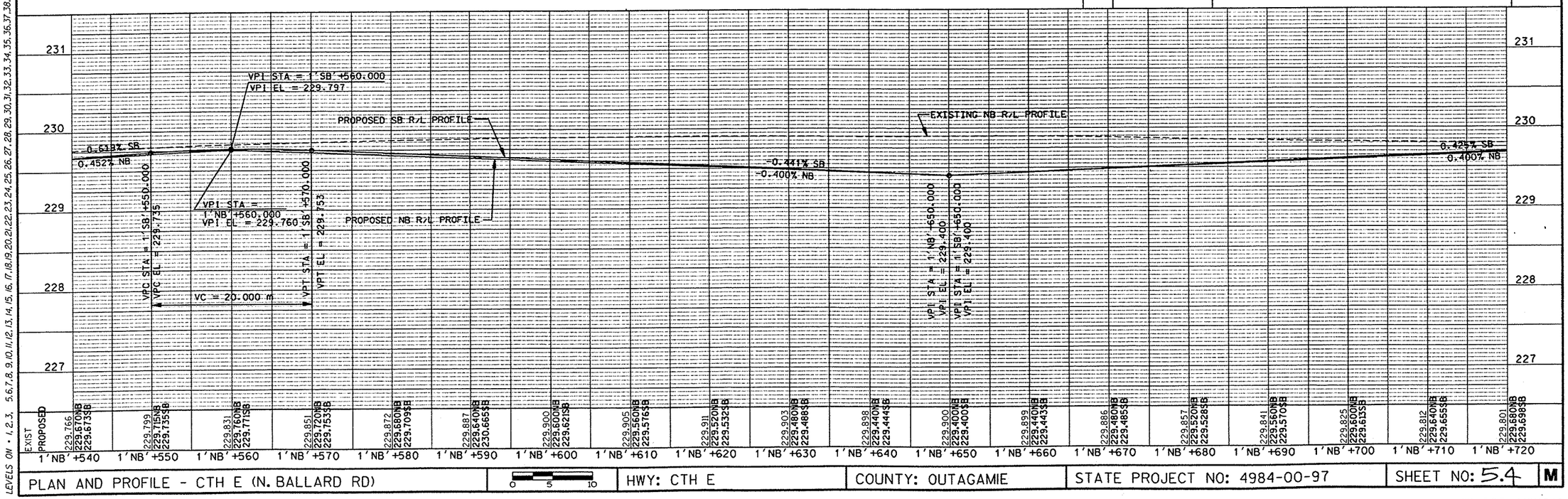
PLAN AND PROFILE - CTH E (N. BALLARD RD) | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 5.3 | M

WisDOT: MSHT40



BENCH MARK TABLE

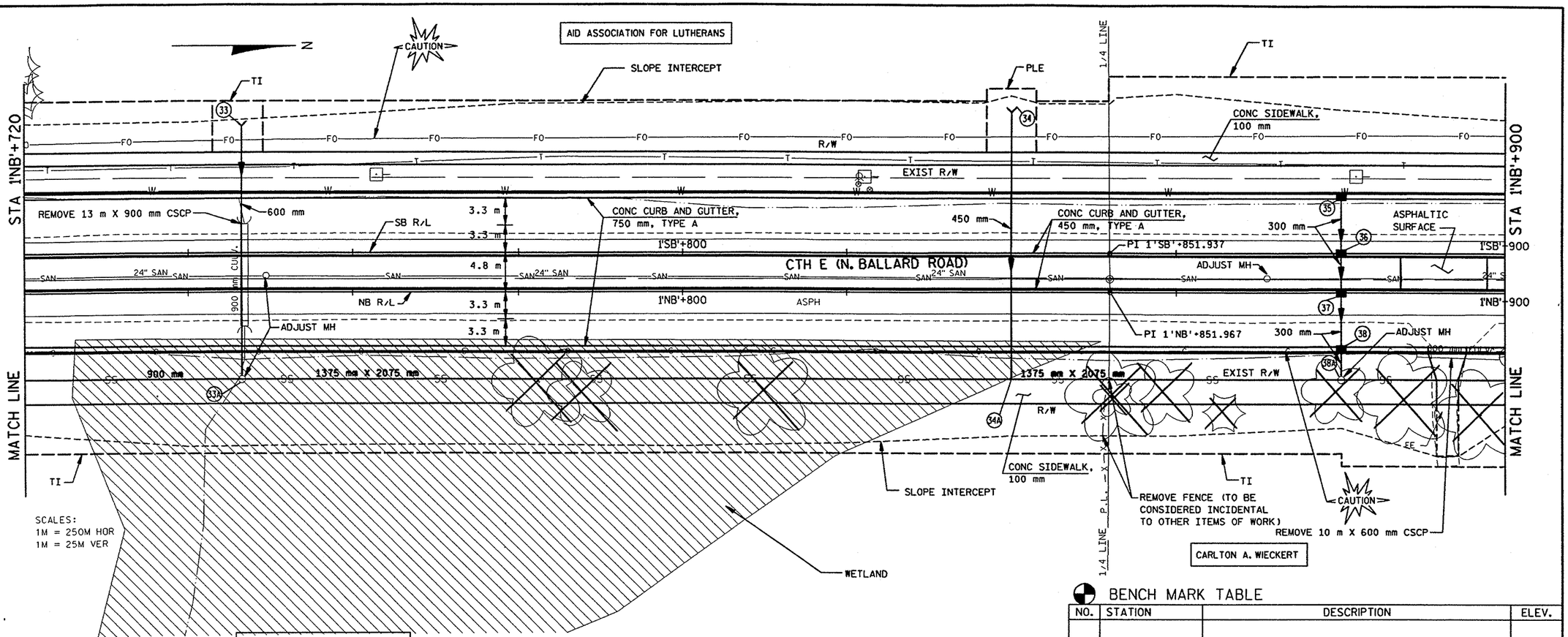
NO.	STATION	DESCRIPTION	ELEV.
BM4	1'SB'+673.8, 13 m LT	PK NAIL 24" TREE, 15'± NORTH OF DRIVE FOR HOUSE #N4433	230.078



PLAN AND PROFILE - CTH E (N. BALLARD RD) | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 5.4 | M

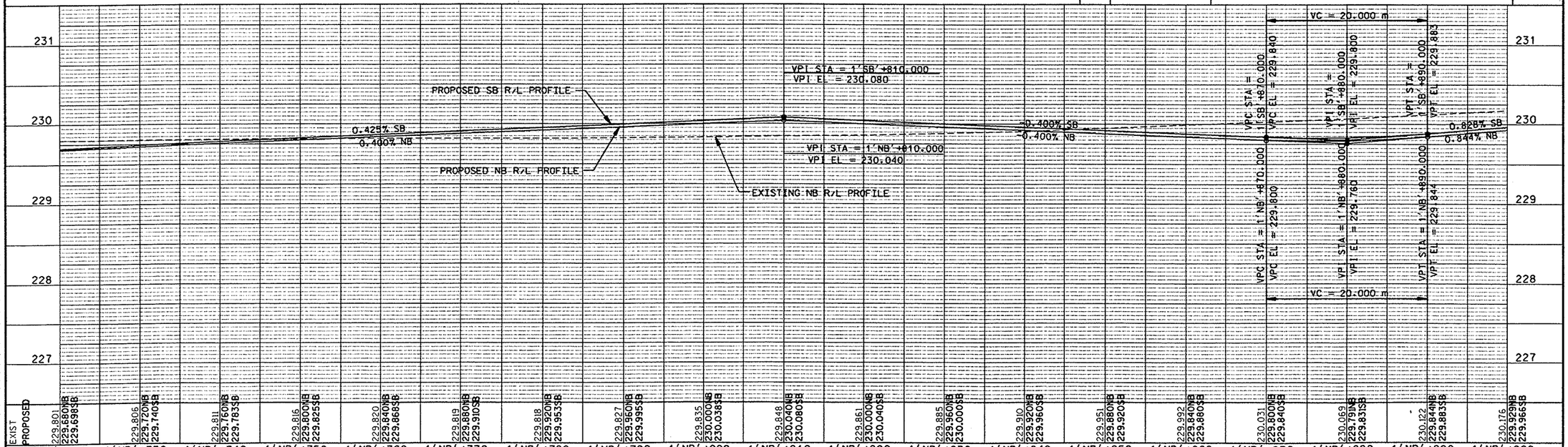
WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PP04 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 08/03/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1, 2, 3, 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.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

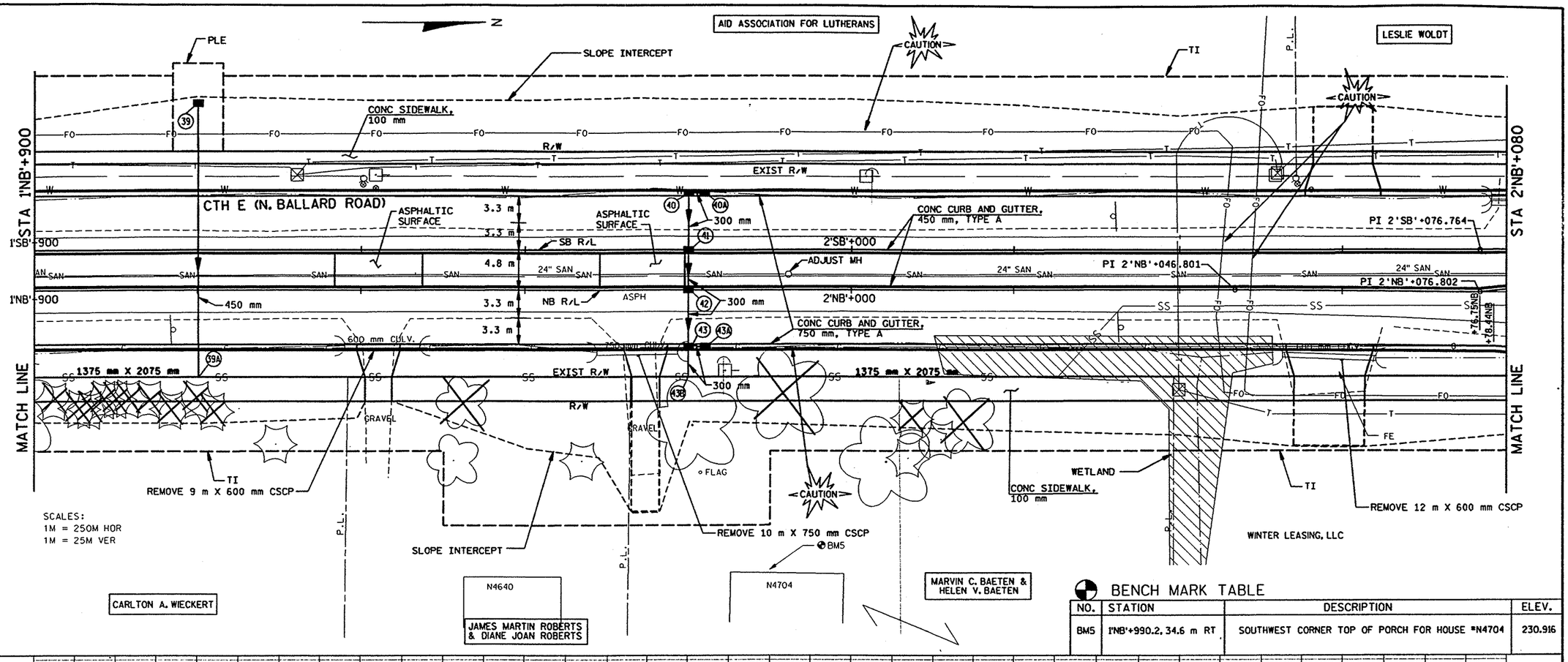


BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.

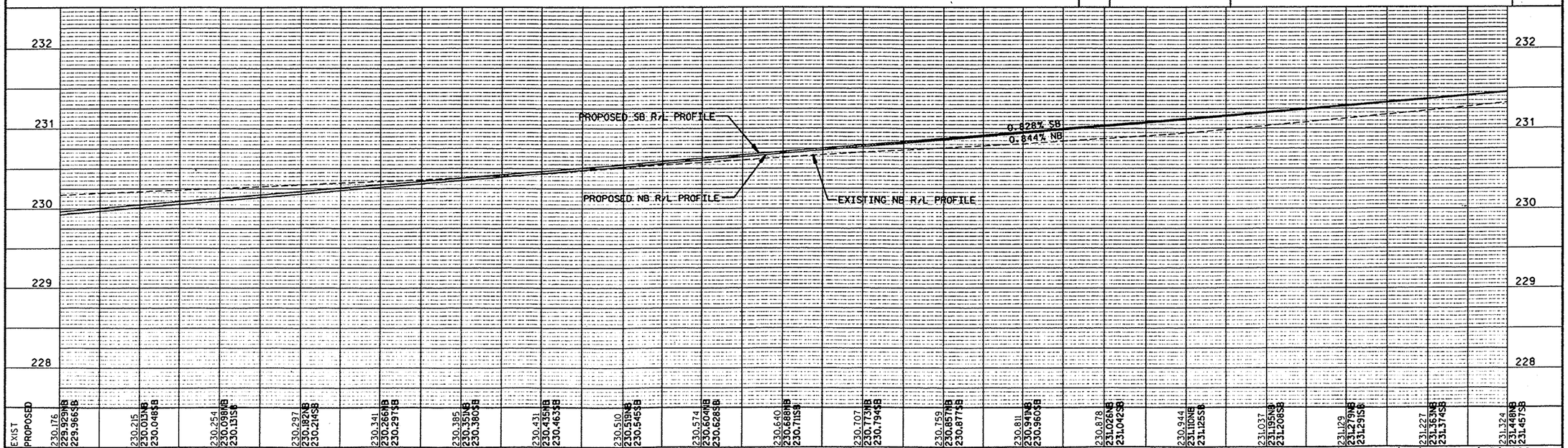


PLAN AND PROFILE - CTH E (N. BALLARD RD)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 5.5	M



BENCH MARK TABLE

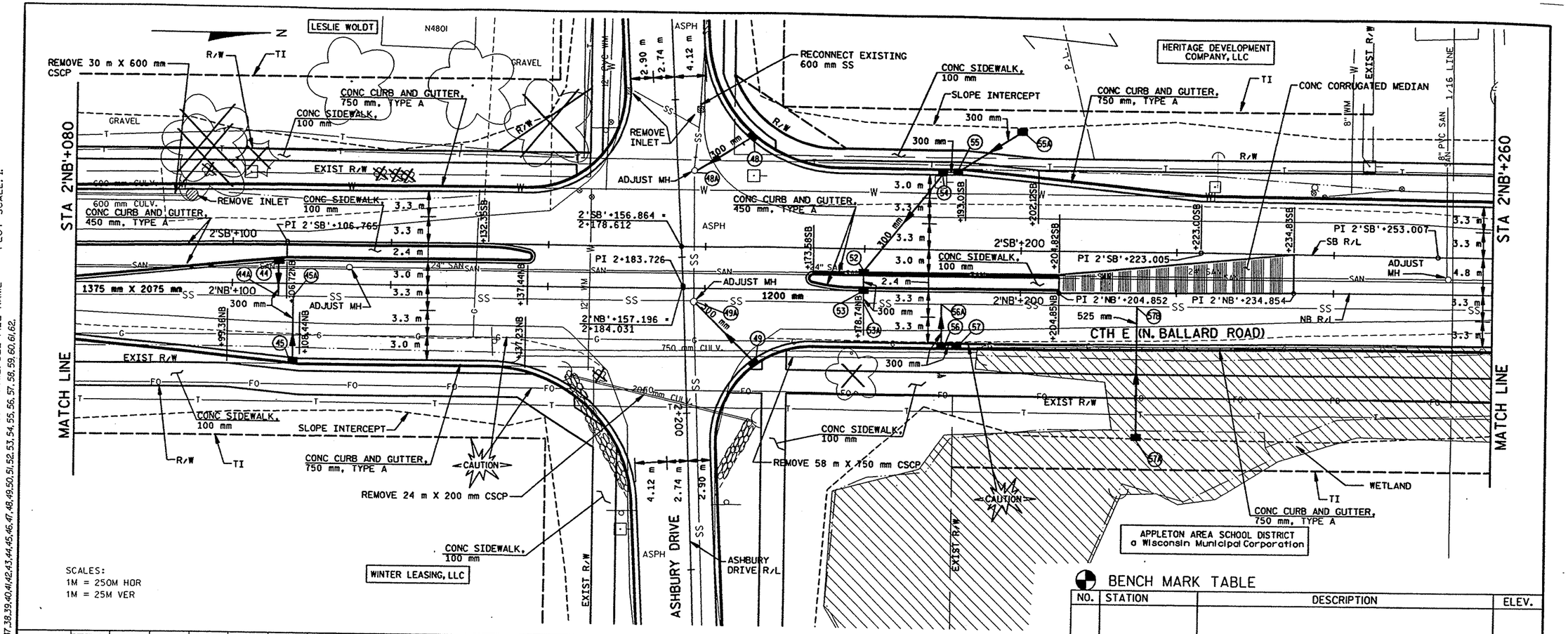
NO.	STATION	DESCRIPTION	ELEV.
BM5	1'NB'+990.2, 34.6 m RT	SOUTHWEST CORNER TOP OF PORCH FOR HOUSE #N4704	230.916



PLAN AND PROFILE - CTH E (N. BALLARD RD)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 5.6 M

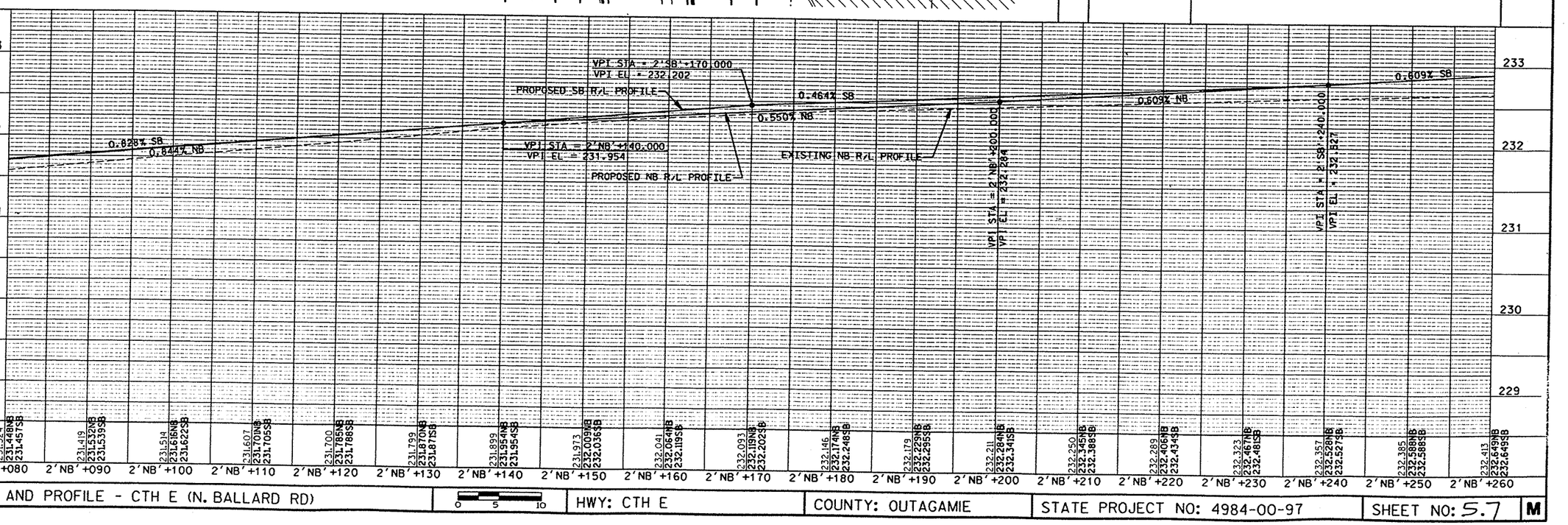
WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PP06 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 10/15/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1, 2, 3, 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,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.



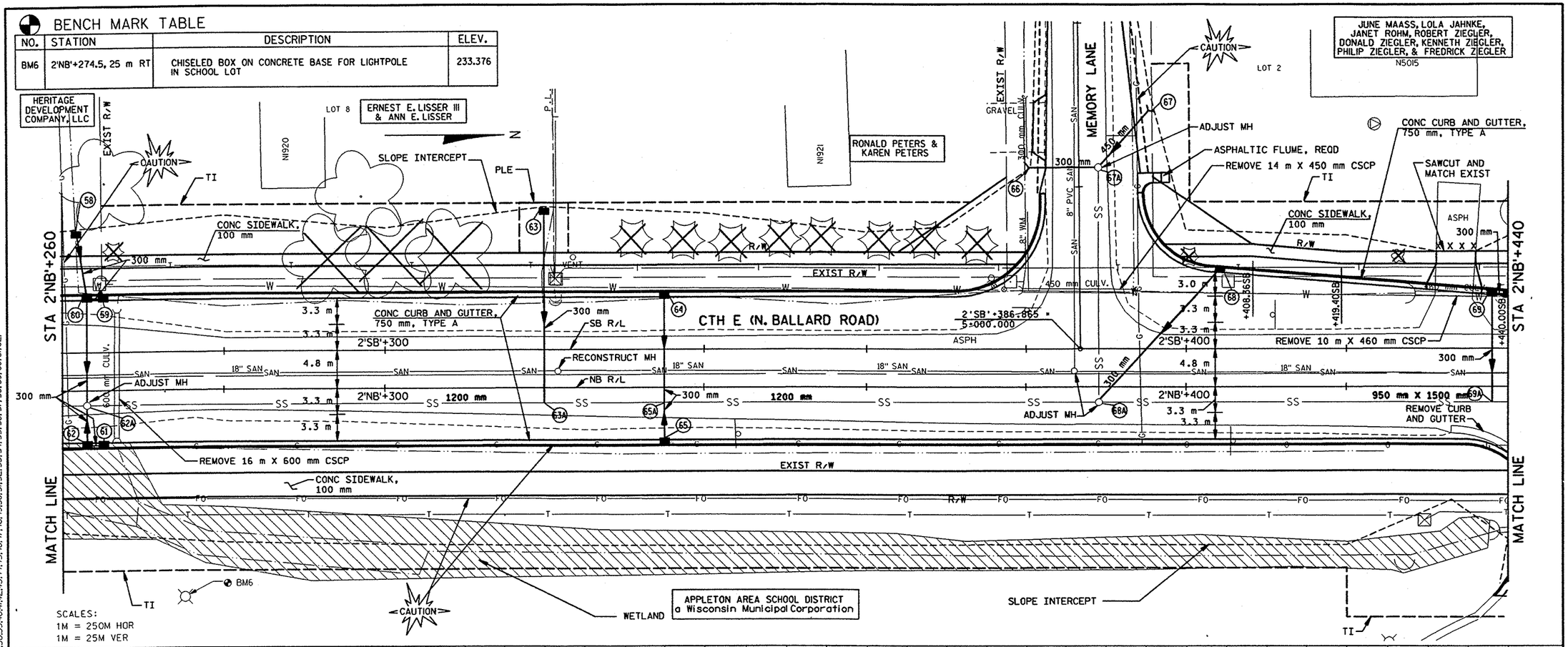
PLAN AND PROFILE - CTH E (N. BALLARD RD) | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 5.7 | M

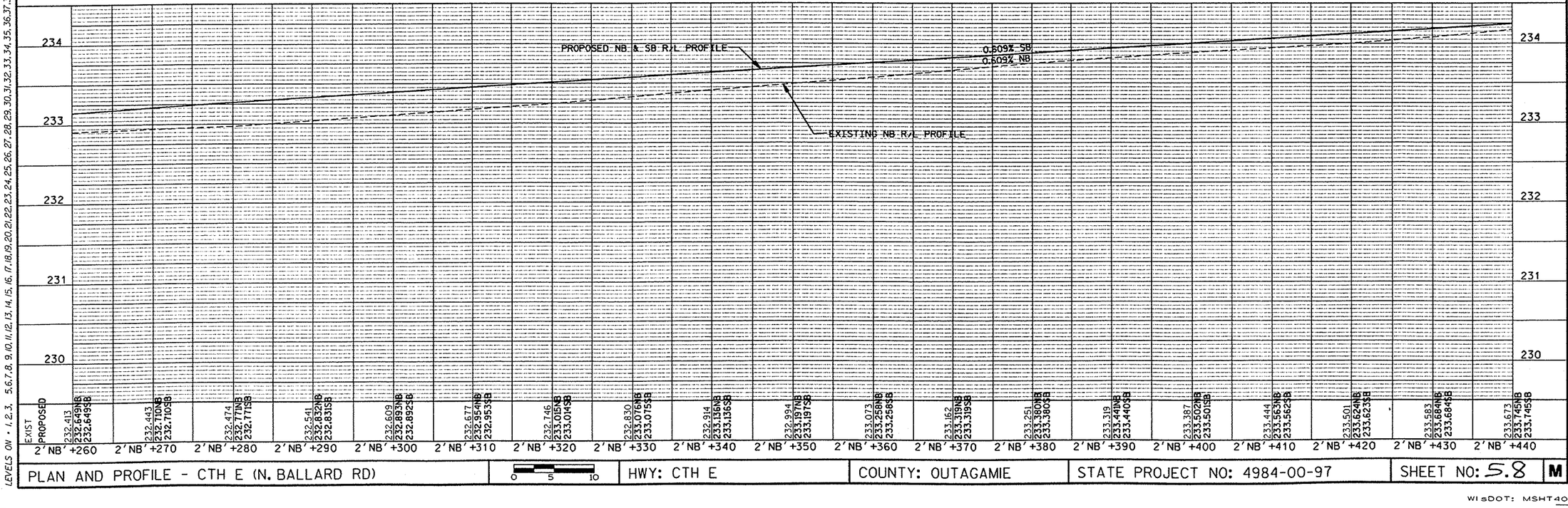
WisDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PPO7 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 08/03/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
LEVELS ON - 1,2,3, 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,

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM6	2'NB'+274.5, 25 m RT	CHISELED BOX ON CONCRETE BASE FOR LIGHTPOLE IN SCHOOL LOT	233.376





PLAN AND PROFILE - CTH E (N. BALLARD RD) | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 5.8 | M

WISDOT: MSHT40

FILE NAME: E1339A9B/SHEETS /PLAN /PP08 .DGN TECH/ENGR: DPP/SDC
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON - 1,2,3, 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.
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
PLOT DATE: 08/03/99

JUNE MAASS, LOLA JAHNKE, JANET ROHM, ROBERT ZIEGLER, DONALD ZIEGLER, KENNETH ZIEGLER, PHILIP ZIEGLER, & FREDRICK ZIEGLER

HERBERT J. KLARNER & GLADYS I. KLARNER

MARION L. VAN HANDEL REVOCABLE LIVING TRUST; MARION L. VAN HANDEL, TRUSTEE

MICHAEL D. KRAUS & KAREN A. KRAUS

APPLETON AREA SCHOOL DISTRICT a Wisconsin Municipal Corporation

APPLETON AREA SCHOOL DISTRICT a Wisconsin Municipal Corporation

CAUTION

SHADY LANE

EXIST R/W

SAWCUT AND MATCH EXIST

MINI-STORM SEWER CLEANOUT

150 mm MINI STORM SEWER

CONNECTION OF 150 mm STORM SEWER TO EXISTING INLET INCIDENTAL TO COST OF 150 mm MINI STORM SEWER

SLOPE INTERCEPT

TI

ASPH

GAS MARKER

375 mm CULV.

450 mm CULV.

CONC CURB AND GUTTER, 750 mm, TYPE A

REMOVE 8 m X 375 mm CSCP

ADJUST MH

18" SAN

950 mm X 1500 mm

REMOVE CURB AND GUTTER

600 mm CULV.

REMOVE 26 m X 600 mm CSCP

+460.51NB 23.89 m RT

REMOVE 7 m X 600 mm CSCP

SAWCUT AND MATCH EXIST

18 m - 600 mm CP WITH 2 ENDWALLS, REQD INV N EL=232.093 INV S EL=231.903

BM7

NORTH HIGH SCHOOL

SCALES: 1M = 250M HOR 1M = 25M VER

STA 2'NB'+440

MATCH LINE

REMOVE 11 m X 450 mm CSCP

PI 2'SB'+552.700

2'SB'+500

SB R/L

2'NB'+500

NB R/L

300 mm

900 mm

PI 2'NB'+540.000

PI 2'NB'+570.002

CONC CORRUGATED MEDIAN

PI 2'SB'+582.502

+552.72NB

+570.22NB

+582.58NB

CONC SIDEWALK, 100 mm

2'NB'+600

2'SB'+600

REMOVE 20 m X 600 mm CSCP

+602.45NB

+617.41NB

+608.80NB

CTH E (N. BALLARD ROAD)

WETLAND

ASPHALT TENNIS COURT

REMOVE 7 m X 450 mm CSCP

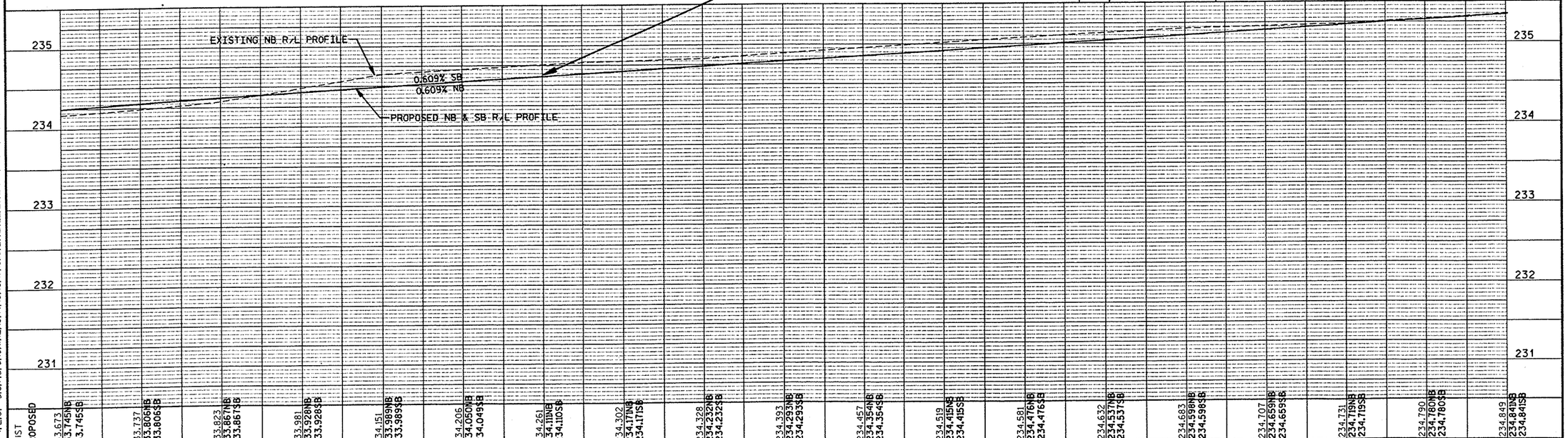
STA 2'NB'+620

MATCH LINE

END PROJECT 4984-00-97/
BEGIN PROJECT 4984-00-95
STA 2'NB'+500

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM7	2'NB'+467.3, 33 m RT	CHISELED BOX ON CONCRETE BASE FOR LIGHTPOLE IN SCHOOL LOT	233.852



PLAN AND PROFILE - CTH E (N. BALLARD RD)

0 5 10

HWY: CTH E

COUNTY: OUTAGAMIE

STATE PROJECT NO: 4984-00-97/95

SHEET NO: 5.9 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PP09 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 08/03/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON - 1,2,3, 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,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

FILE NAME: E1339A98/SHEETS /PLAN /PPIO .DGN TECH/ENGR: DPP/SDC
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON • 1,2,3, 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, 52,53,54,55,56,57,58,59,60,61,62.
PLOT DATE: 08/03/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

MARION L. VAN HANDEL REVOCABLE LIVING TRUST; MARION L. VAN HANDEL, TRUSTEE

TOM H. VAN HANDEL & MARY K. VAN HANDEL

RICHARD A. MUELLER

JAMES H. GILLESPIE & MARY GILLESPIE

MICHAEL D. KRAUS & KAREN A. KRAUS

STA 2'NB'+620

STA 2'NB'+800

MATCH LINE

CTH E (N. BALLARD ROAD)

CTH JJ (EDGEWOOD DRIVE)

EXIST R/W

R/W

TI

CONC CURB AND GUTTER, 750 mm, TYPE A

CONC CURB AND GUTTER, 750 mm, TYPE D

CONC CURB AND GUTTER, 450 mm, TYPE A

CONC SIDEWALK, 100 mm

ADJUST MH

EB R/L

WB R/L

SB R/L

NB R/L

REMOVE 17 m X 600 mm CSCP

REMOVE 14 m X 450 mm CSCP

REMOVE 20 m X 530 mm CSCP

SLOPE INTERCEPT

SAWCUT AND MATCH EXIST

CAUTION

ASPH

GRAVEL

BM8

BM9

N5302

END PROJECT
4984-00-95
STA 2'NB'+782.600

SCALES:
1M = 250M HOR
1M = 25M VER

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM8	2'NB'+649.7, 30 m RT	RR SPIKE IN PP*92-22987 SE CORNER CTH JJ & BALLARD RD	235.074
BM9	2'NB+718.9, 20 m RT	CHISELED BOX ON CONCRETE BASE OF LIGHTPOLE 35' NORTH OF MOBIL SIGN	236.104

PROPOSED SB R/L PROFILE

PROPOSED NB R/L PROFILE

EXISTING NB R/L PROFILE

VPI STA = 2'SB'+640.000
VPI EL = 234.963

VPI STA = 2'NB'+640.000
VPI EL = 234.963

VPI STA = 2'SB'+700.000
VPI EL = 235.582

VPI STA = 2'NB'+700.000
VPI EL = 235.512

PVI STA = 2'SB'+760.000
PVI EL = 235.864

VPI STA = 2'NB'+759.000
VPI EL = 235.807

PVI STA = 2'SB'+800.000
PVI EL = 236.120

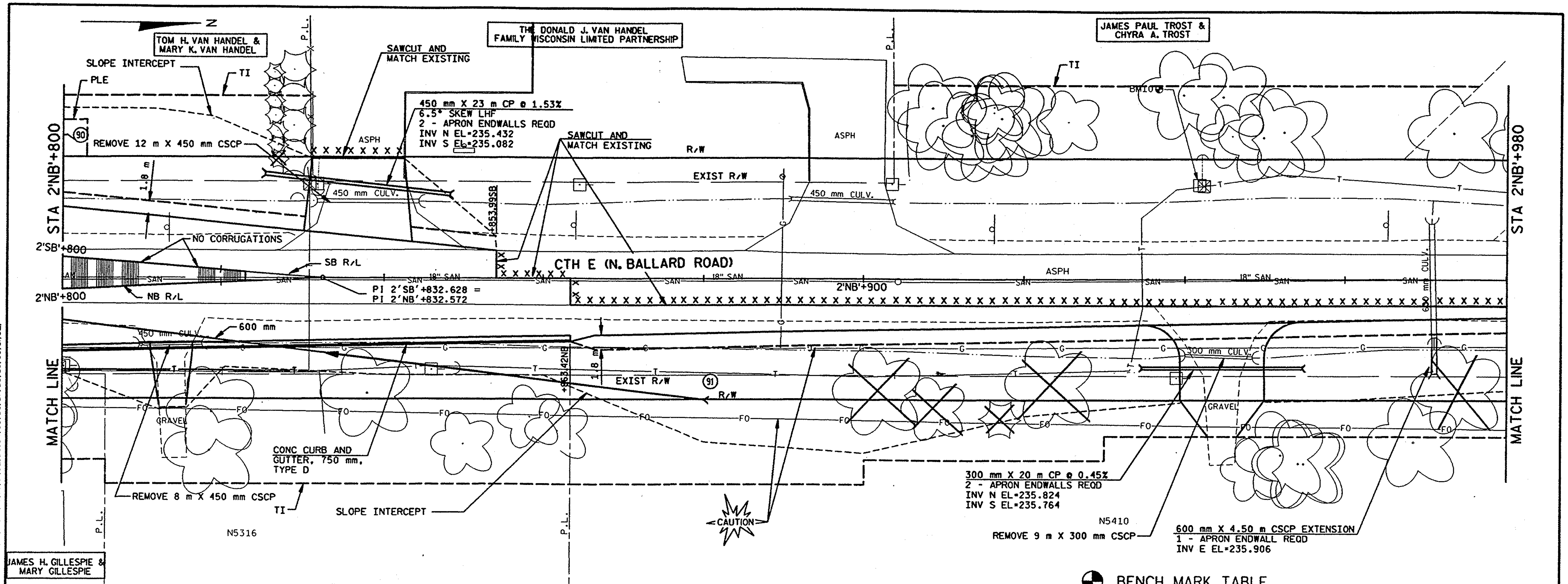
0.609% SB
0.609% NB
1.032% SB
0.915% NB
0.470% SB
0.500% NB
1.01% NB
0.640% SB

	2'NB'+620	2'NB'+630	2'NB'+640	2'NB'+650	2'NB'+660	2'NB'+670	2'NB'+680	2'NB'+690	2'NB'+700	2'NB'+710	2'NB'+720	2'NB'+730	2'NB'+740	2'NB'+750	2'NB'+760	2'NB'+770	2'NB'+780	2'NB'+790	2'NB'+800
EXIST	234.849	234.926	235.003	235.085	235.167	235.267	235.320	235.382	235.443	235.546	235.648	235.737	235.826	235.943	236.061	236.166	236.264	236.323	236.383
PROPOSED	234.841NB 234.841SB	234.902NB 234.902SB	234.963NB 234.963SB	235.055NB 235.066SB	235.146NB 235.169SB	235.238NB 235.272SB	235.329NB 235.376SB	235.420NB 235.479SB	235.512NB 235.582SB	235.562NB 235.629SB	235.612NB 235.676SB	235.662NB 235.723SB	235.712NB 235.770SB	235.762NB 235.817SB	235.817NB 235.864SB	235.918NB 235.928SB	235.992NB 235.992SB	236.019NB 236.056SB	236.120NB 236.120SB

PLAN AND PROFILE - CTH E (N. BALLARD RD)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95

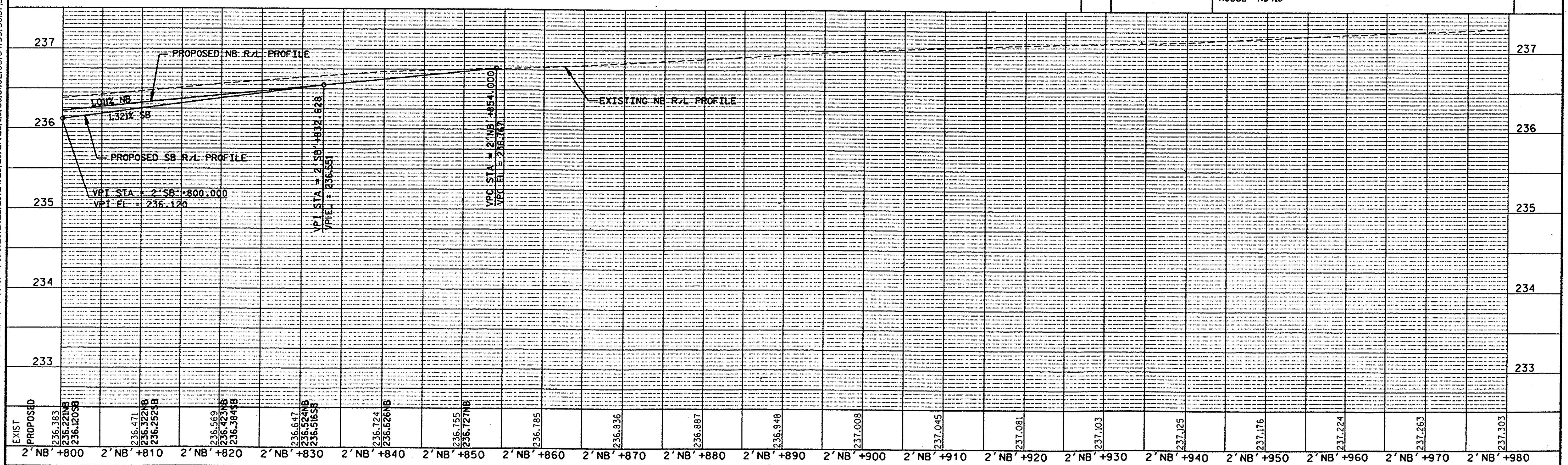
SHEET NO: 5.10 M

WISDOT: MSHT40


TOM H. VAN HANDEL & MARY K. VAN HANDEL
THE DONALD J. VAN HANDEL FAMILY WISCONSIN LIMITED PARTNERSHIP
JAMES PAUL TROST & CHYRA A. TROST
SLOPE INTERCEPT
PLE
TI
SAWCUT AND MATCH EXISTING
450 mm X 23 m CP @ 1.53%
6.5° SKEW LHF
2 - APRON ENDWALLS REQD
INV N EL=235.432
INV S EL=235.082
REMOVE 12 m X 450 mm CSCP
STA 2'NB'+800
STA 2'NB'+980
ASPH
R/W
EXIST R/W
450 mm CULV.
BM10
NO CORRUGATIONS
2'SB'+800
2'NB'+800
SB R/L
NB R/L
CTH E (N. BALLARD ROAD)
18" SAN
PI 2'SB'+832.628 =
PI 2'NB'+832.572
+853.995B
+853.42NB
2'NB'+900
600 mm
600 mm CULV.
300 mm CULV.
EXIST R/W
R/W
GRAVEL
MATCH LINE
CONC CURB AND GUTTER, 750 mm, TYPE D
REMOVE 8 m X 450 mm CSCP
SLOPE INTERCEPT
CAUTION
300 mm X 20 m CP @ 0.45%
2 - APRON ENDWALLS REQD
INV N EL=235.824
INV S EL=235.764
N5410
REMOVE 9 m X 300 mm CSCP
600 mm X 4.50 m CSCP EXTENSION
1 - APRON ENDWALL REQD
INV E EL=235.906
N5316
P.L.
JAMES H. GILLESPIE & MARY GILLESPIE
WILLIAM D. GILLESPIE & JUDITH A. GILLESPIE
LAWRENCE G. PETERSEN & RITA JANE PETERSEN
SCALES:
1M = 250M HOR
1M = 25M VER

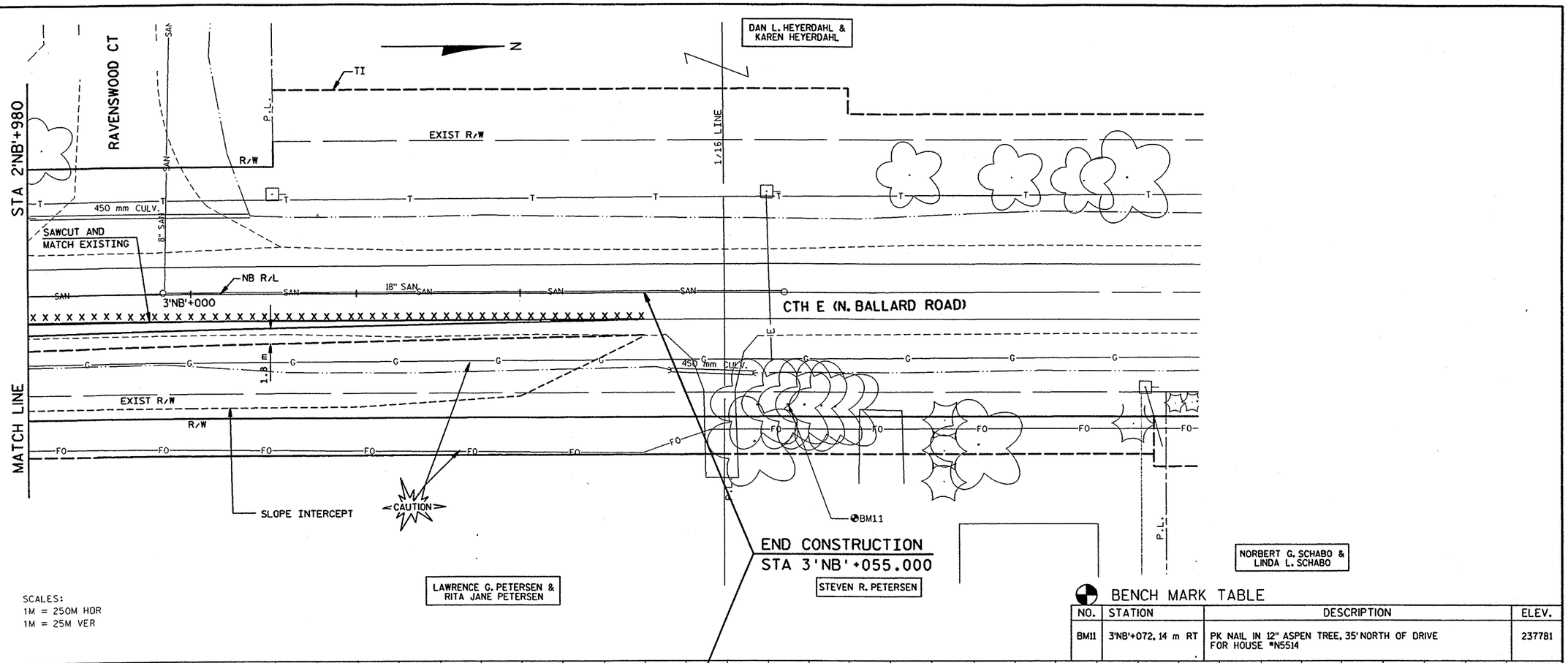
BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM10	2'SB'+941.4, 9 m LT	PK NAIL IN PP#66-2940 ACROSS FROM DRIVE FOR HOUSE #N5410	236.415


237
236
235
234
233
PROPOSED NB R/L PROFILE
1.011% NB
1.321% SB
PROPOSED SB R/L PROFILE
EXISTING NB R/L PROFILE
VPI STA = 2'SB'+800.000
VPI EL = 236.120
VPI STA = 2'SB'+832.628
VPI EL = 236.551
VPC STA = 2'NB'+854.000
VPC EL = 236.767
EXIST
PROPOSED
236.383 236.220NB 236.120SB
236.471 236.322NB 236.252SB
236.569 236.423NB 236.384SB
236.647 236.524NB 236.516SB
236.724 236.626NB
236.755 236.727NB
236.785
236.836
236.887
236.948
237.008
237.045
237.081
237.103
237.125
237.176
237.224
237.263
237.303
2'NB'+800
2'NB'+810
2'NB'+820
2'NB'+830
2'NB'+840
2'NB'+850
2'NB'+860
2'NB'+870
2'NB'+880
2'NB'+890
2'NB'+900
2'NB'+910
2'NB'+920
2'NB'+930
2'NB'+940
2'NB'+950
2'NB'+960
2'NB'+970
2'NB'+980

PLAN AND PROFILE - CTH E (N. BALLARD RD)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 5.11	M

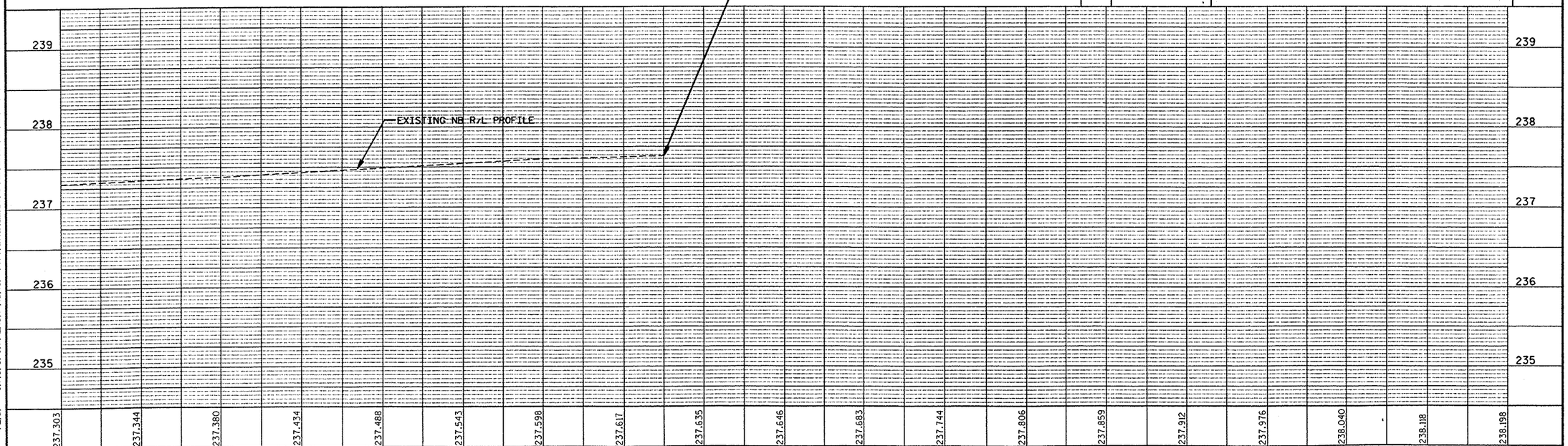
FILE NAME: E1339A98/SHEETS /PLAN /PP11 .DGN PLOT DATE: 08/03/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI.54914-1654 TECH/ENGR: DPP/SDC REV. DATE: / /
LEVELS ON = 1,2,3, 5,6,7,8, 9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62



SCALES:
1M = 250M HOR
1M = 25M VER

BENCH MARK TABLE

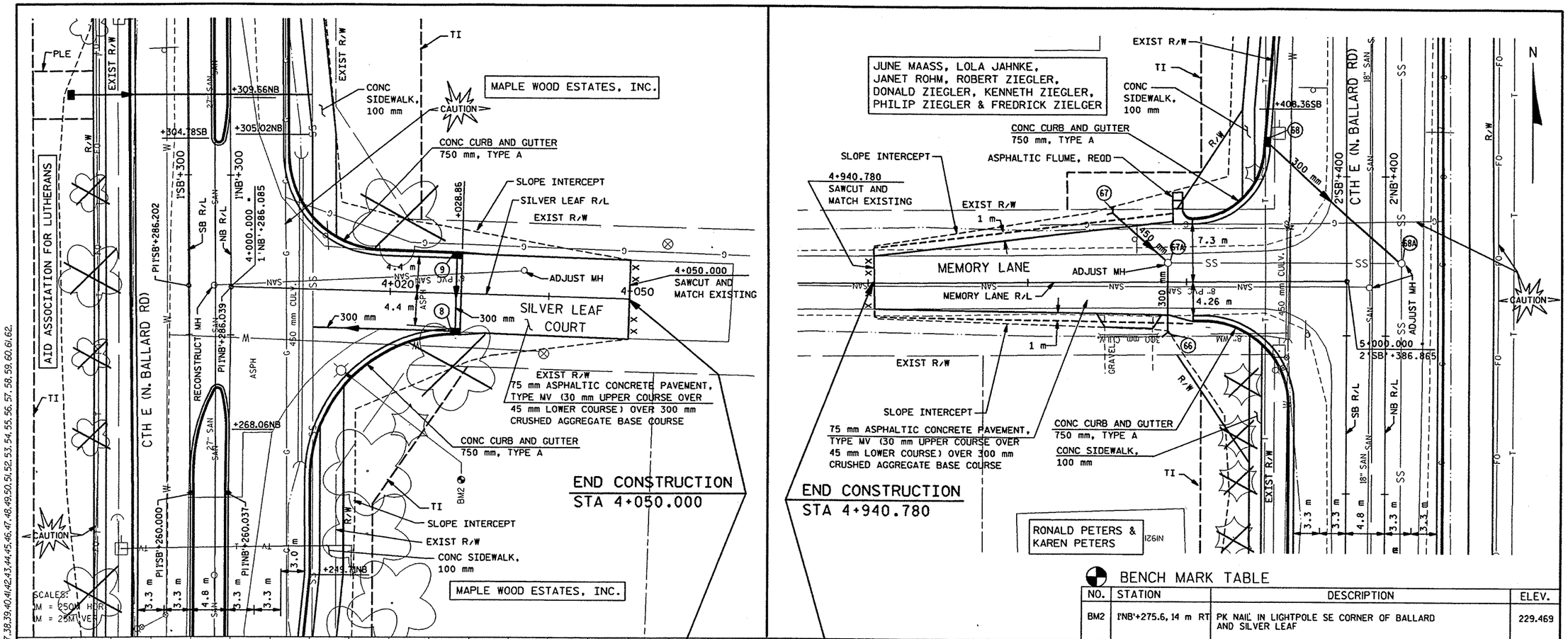
NO.	STATION	DESCRIPTION	ELEV.
BM11	3'NB'+072.14 m RT	PK NAIL IN 12" ASPEN TREE, 35' NORTH OF DRIVE FOR HOUSE #N5514	237781



PLAN AND PROFILE - CTH E (N. BALLARD RD) | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-95 | SHEET NO: 5.12 M

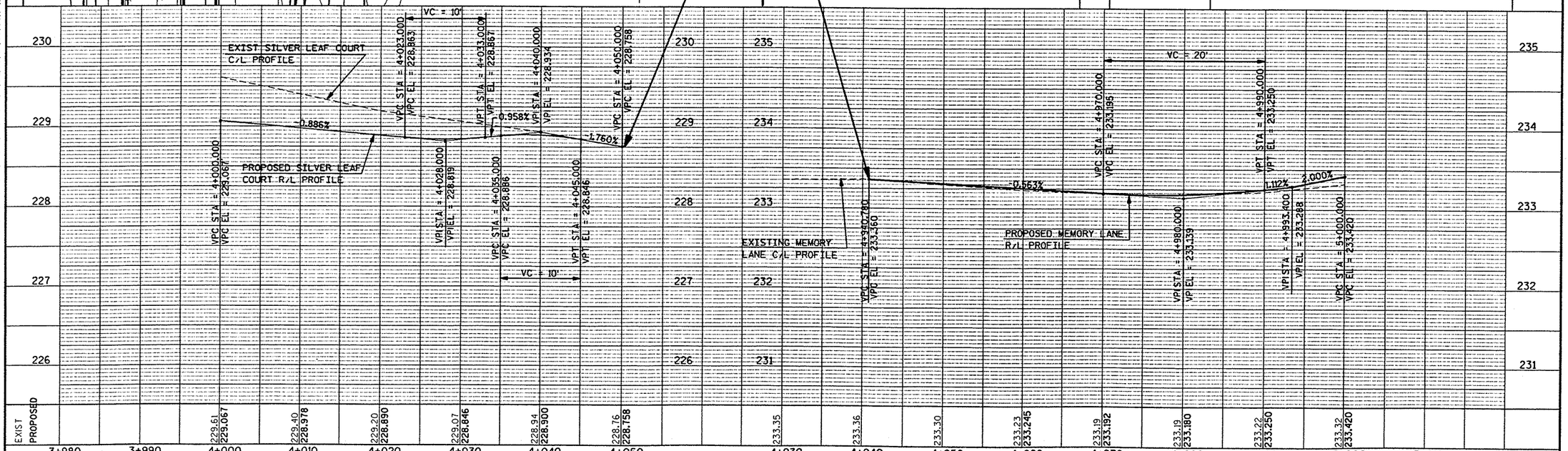
WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /PP12 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 08/03/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
LEVELS ON • 1,2,3, 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,



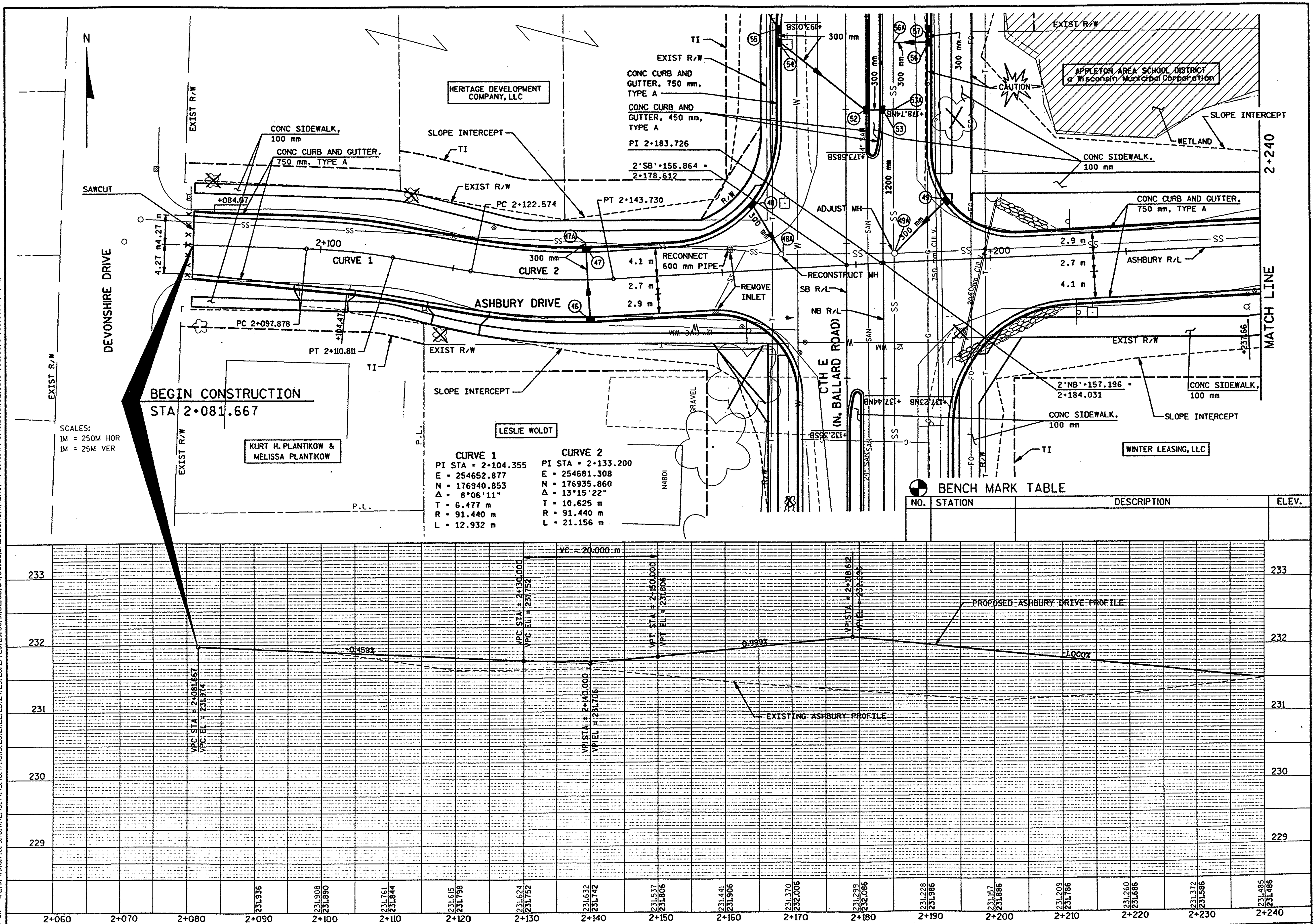
BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM2	I'NB'+275.6, 14 m RT	PK NAIL IN LIGHTPOLE SE CORNER OF BALLARD AND SILVER LEAF	229.469



PLAN AND PROFILE - CTH E (N. BALLARD RD) | 0 5 10 | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 5.13 M

WISDOT: MSHT40


N
EXIST R/W
HERITAGE DEVELOPMENT COMPANY, LLC
APPLETON AREA SCHOOL DISTRICT a Wisconsin Municipal Corporation
CAUTION
CONC SIDEWALK, 100 mm
CONC CURB AND GUTTER, 750 mm, TYPE A
SLOPE INTERCEPT
TI
SAWCUT
+084.07
PC 2+122.574
PT 2+143.730
2+100
CURVE 1
CURVE 2
300 mm
RECONNECT 600 mm PIPE
4.1 m
2.7 m
2.9 m
ASHBURY DRIVE
PC 2+097.878
PT 2+110.811
+104.47
DEVONSHIRE DRIVE
BEGIN CONSTRUCTION
STA 2+081.667
SCALES:
1M = 250M HOR
1M = 25M VER
KURT H. PLANTIKOW & MELISSA PLANTIKOW
LESLIE WOLDT
P.L.
CURVE 1
PI STA = 2+104.355
E = 254652.877
N = 176940.853
Δ = 8°06'11"
T = 6.477 m
R = 91.440 m
L = 12.932 m
CURVE 2
PI STA = 2+133.200
E = 254681.308
N = 176935.860
Δ = 13°15'22"
T = 10.625 m
R = 91.440 m
L = 21.156 m
TI
EXIST R/W
CONC CURB AND GUTTER, 750 mm, TYPE A
CONC CURB AND GUTTER, 450 mm, TYPE A
PI 2+183.726
2'SB'+156.864 = 2+178.612
ADJUST MH
RECONSTRUCT MH
REMOVE INLET
SB R/L
NB R/L
CTH E (N. BALLARD ROAD)
GRAVEL
N4801
300 mm
1200 mm
2+200
ASHBURY R/L
2'NB'+157.196 = 2+184.031
WETLAND
SLOPE INTERCEPT
CONC SIDEWALK, 100 mm
WINTER LEASING, LLC
2+240
MATCH LINE
+237.66
VC = 20.000 m
PROPOSED ASHBURY DRIVE PROFILE
EXISTING ASHBURY PROFILE
-0.459%
0.999%
-1.000%
VPC STA = 2+081.667
VPC EL = 231.974
VPC STA = 2+130.000
VPC EL = 231.752
VPI STA = 2+140.000
VPI EL = 231.706
VPT STA = 2+150.000
VPT EL = 231.806
VPI STA = 2+178.612
VPI EL = 232.096
233
232
231
230
229
231.936
231.908 231.890
231.761 231.844
231.615 231.798
231.624 231.752
231.632 231.742
231.537 231.806
231.441 231.906
231.370 232.006
231.299 232.086
231.228 231.986
231.157 231.886
231.209 231.786
231.260 231.686
231.372 231.586
231.485 231.486
2+060
2+070
2+080
2+090
2+100
2+110
2+120
2+130
2+140
2+150
2+160
2+170
2+180
2+190
2+200
2+210
2+220
2+230
2+240

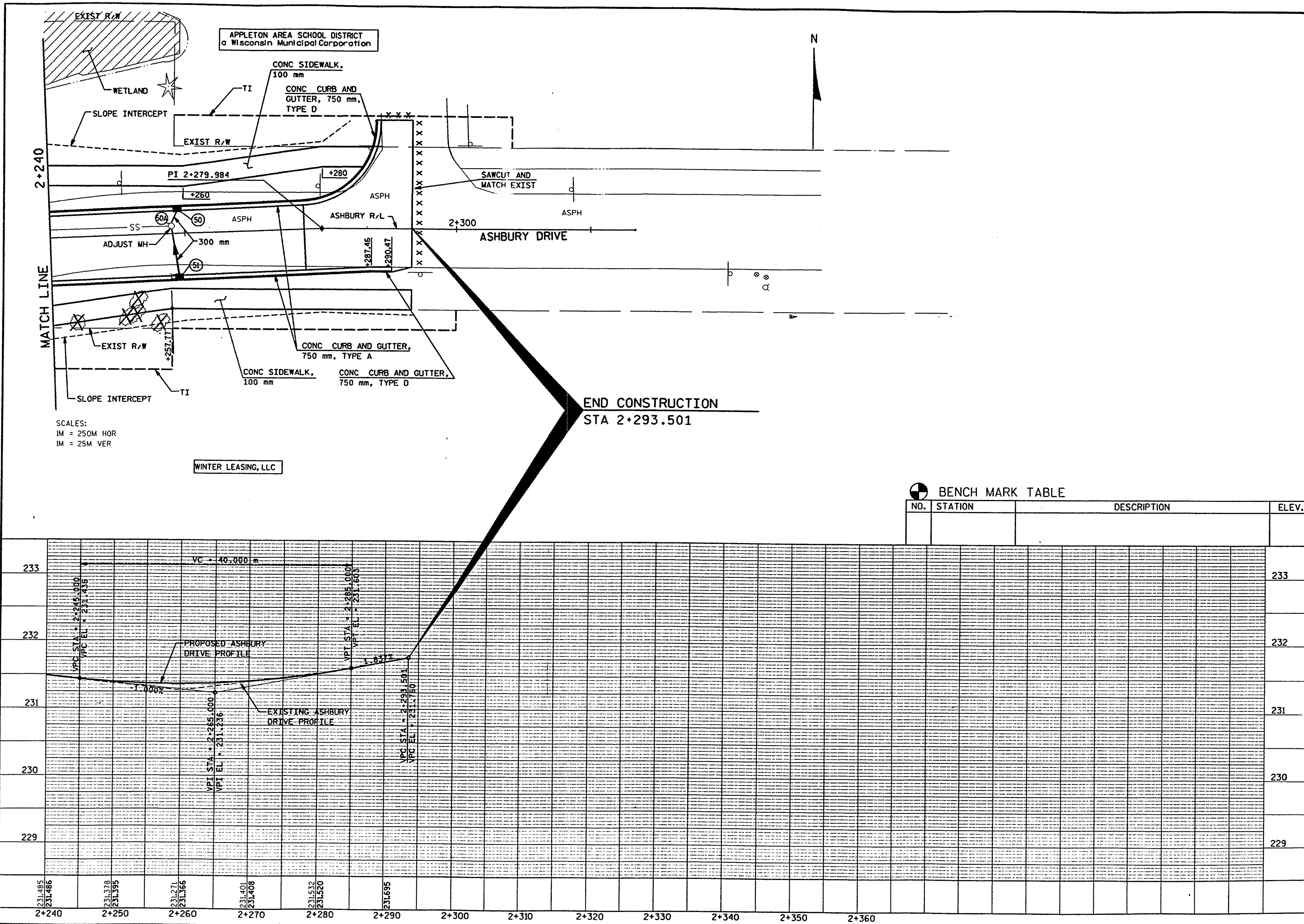
BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.

FILE NAME: E1339A98/SHEETS /PLAN /ASHPP01.DGN TECH/ENGR: DPP/SDC PLOT DATE: 10/15/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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,

PLAN AND PROFILE - ASHBURY DRIVE	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 5.14 M

WISDOT: MSHT40



BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.

PLAN AND PROFILE - ASHBURY DRIVE	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 5.15	M

FILE NAME: E1339A98/SHEETS /PLAN /ASHPP02 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/14/99 PLOT SCALE: 1:
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME
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.

WisDOT: MSHT40

CARL E. MARTEN & JANE MARTEN

TOM H. VAN HANDEL & MARY K. VAN HANDEL

N

REMOVE 10 m X 450 mm CSCP

CONC CURB AND GUTTER, 750 mm, TYPE A

SLOPE INTERCEPT

CONC CORRUGATED MEDIAN

TI

REMOVE 13 m X 450 mm CSCP

SAWCUT AND MATCH EXISTING

GRAVEL

ASPH

CONC CURB AND GUTTER, 750 mm, TYPE D

SAWCUT AND MATCH EXIST

+56.91 RB

EXIST R/W

1824

+131.08 WB

PI +131.19 WB

R/W

P.L.

3.3 m

450 mm

450 mm CULV.

REMOVE INLET

CTH JJ (EDGEWOOD DR)

PI 1'WB'+131.085

CONC

WB R/L

ADJUST INLET

1'WB'+000

1'EB'+000

NVS

SS

EB R/L

1'EB'+100

2.7 m

3.3 m

ADJUST MH

300 mm

+161.04 EB

+58.87 EB

PI 1'EB'+058.998

PI 1'EB'+131.035

+130.98 EB

+51.04 EB

1835

SAWCUT AND MATCH EXISTING

CONC CURB AND GUTTER, 450 mm, TYPE A

CONC CURB AND GUTTER, 750 mm, TYPE A

CONC SIDEWALK, 100 mm

REMOVE 10 m X 450 mm CSCP

STA 1'EB'+180

MATCH LINE

BEGIN CONSTRUCTION
STA 1'EB'+040.000

SCALES:
1M = 250M HOR
1M = 25M VER

JULE VAN HANDEL

JAMES R. VAN HANDEL & JUDY A. VAN HANDEL

MARION L. VAN HANDEL REVOCABLE LIVING TRUST; MARION L. VAN HANDEL, TRUSTEE

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.

VPI STA = 1'EB'+040.000
VPI EL = 238.660
VPI STA = 1'WB'+040.000
VPI EL = 238.660
0.667 EB
0.665 WB

VPI STA = 1'EB'+060.000
VPI EL = 238.527
VPI STA = 1'WB'+060.000
VPI EL = 238.527

EXISTING CTH JJ PROFILE

VPC STA = 1'EB'+045.000
VPC EL = 238.627
VPC STA = 1'WB'+045.000
VPC EL = 238.627

VPI STA = 1'EB'+075.000
VPI EL = 238.130
VPI STA = 1'WB'+075.000
VPI EL = 238.130

VC = 30.000 m

PROPOSED CTH JJ EB & WB PROFILE

-0.667

VPC STA = 1'WB'+159.000
VPC EL = 235.806

VPC STA = 1'EB'+165.000
VPC EL = 235.749

VC = 30.000 m

VPI STA = 1'WB'+174.000
VPI EL = 235.509

VPI STA = 1'EB'+180.000
VPI EL = 235.351

	1+000	1+010	1+020	1+030	1+040	1+050	1+060	1+070	1+080	1+090	1+100	1+110	1+120	1+130	1+140	1+150	1+160	1+170	1+180
EXIST	239.216	239.074	238.932	238.796	238.660	238.590	238.520	238.276	238.031	237.773	237.514	237.235	237.027	236.852	236.418	236.105	235.791	235.521	235.472
PROPOSED					238.660WB	238.585WB	238.453WB	238.254WB	237.998WB	237.733WB	237.468WB	237.203WB	236.939WB	236.674WB	236.409WB	236.144WB	235.880WB	235.655WB	235.432WB

239 238 237 236 235

PLAN AND PROFILE - CTH JJ (EDGEWOOD DRIVE)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 5.16 M

TOM H. VAN HANDEL & MARY K. VAN HANDEL

MARION L. VAN HANDEL REVOCABLE LIVING TRUST; MARION L. VAN HANDEL, TRUSTEE

MICHAEL D. KRAUS & KAREN A. KRAUS

RICHARD A. MUELLER

APPLETON AREA SCHOOL DISTRICT a Wisconsin Municipal Corporation

STA 1'EB'+180

STA 1'EB'+360

MATCH LINE

MATCH LINE

CTH E (N. BALLARD RD)

CTH JJ (EDGEWOOD DR) ASPH

SLOPE INTERCEPT

CAUTION

EXIST R/W

CONC SIDEWALK, 100 mm

CONC CURB AND GUTTER, 450 mm, TYPE A

CONC CURB AND GUTTER, 750 mm, TYPE A

CONC CURB AND GUTTER, 750 mm, TYPE D

CONC SIDEWALK, 100 mm

CONC CURB AND GUTTER, 450 mm, TYPE A

CONC CORRUGATED MEDIAN

NO CORRUGATIONS

ASPHALTIC FLUME REQD

SAWCUT AND MATCH EXIST

REMOVE 15 m X 450 mm CSCP

REMOVE 10 m X 300 mm CSCP

ADJUST MH

PI 1'WB'+220.105

PI 1'EB'+220.030

PI 1'WB'+299.774

PI STA = 1'EB'+299.683

2'NB'+659.808 = 1'EB'+201.965

WB R/L

EB R/L

NB R/L

SB R/L

P.L.

BM8

5140

+689.79SB

+685.79SB

+682.75SB

+685.75NB

+642.60NB

+639.64SB

+195.91WB

1'WB'+200

+199.35EB

1'EB'+200

+239.66EB

+269.69EB

+242.30EB

+239.77WB

PI+239.87WB

+316.48WB

1'WB'+300

1'EB'+300

+355.76WB

300 mm

600 mm CULV.

450 mm CULV.

900 mm

300 CMP

SCALES:
1M = 250M HOR
1M = 25M VER

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM8	2'NB'+649.7, 30 m RT	RR SPIKE IN PP*92-22987 SE CORNER CTH JJ & BALLARD	235.074

PROPOSED CTH JJ WB PROFILE

PROPOSED CTH JJ EB PROFILE

EXISTING CTH JJ PROFILE

VC = 30.000 m

VC = 20.000 m

VPI STA = 1'WB'+189.000
VPI EL = 235.412

VPI STA = 1'EB'+195.000
VPI EL = 235.276

VPI STA = 1'EB'+180.000
VPI EL 235.351

VPC STA = 1'EB'+250.000
VPC EL = 235.001

VPI STA = 1'WB'+250.000
VPC EL = 235.016

VPI STA = 1'EB'+260.000
VPI EL = 234.951

VPI STA = 1'WB'+260.000
VPI EL = 234.951

VPI STA = 1'WB'+270.000
VPI EL = 235.001

VPI STA = 1'EB'+270.000
VPI EL = 235.001

VPI STA = 1'EB'+300.000
VPI EL = 235.115

VPI STA = 1'WB'+300.000
VPI EL = 235.115

VPI STA = 1'EB'+335.000
VPI EL = 235.045

VPI STA = 1'EB'+350.000
VPI EL = 235.000

VPI STA = 1'WB'+350.000
VPI EL = 235.000

-0.649%WB

-0.500%EB

0.500%EB
0.500%WB

-0.302%EB
-0.302%WB

1.220%EB
1.221%WB

	1+180	1+190	1+200	1+210	1+220	1+230	1+240	1+250	1+260	1+270	1+280	1+290	1+300	1+310	1+320	1+330	1+340	1+350	1+360
EXIST	235.472		235.111	235.069	235.028	234.986	234.944	235.038	235.132	235.090	235.049	235.127	235.205	235.003	235.014	235.215	235.415	235.267	235.118
PROPOSED	235.432EB 235.497WB	235.292 235.310EB 235.405WB	235.25IEB 235.340WB	235.201EB 235.275WB	235.151EB 235.211WB	235.101EB 235.146WB	235.051EB 235.081WB	235.001EB 235.016WB	234.976EB 234.980WB	235.001EB 235.001WB	235.051EB 235.051WB	235.101EB 235.101WB	235.151EB 235.151WB	235.121EB 235.121WB	235.091EB 235.091WB	235.060EB 235.060WB	235.037EB 235.030WB	235.057EB 235.000WB	235.128EB 235.122WB

PLAN AND PROFILE - CTH JJ (EDGEWOOD DRIVE)

0 5 10

HWY: CTH E

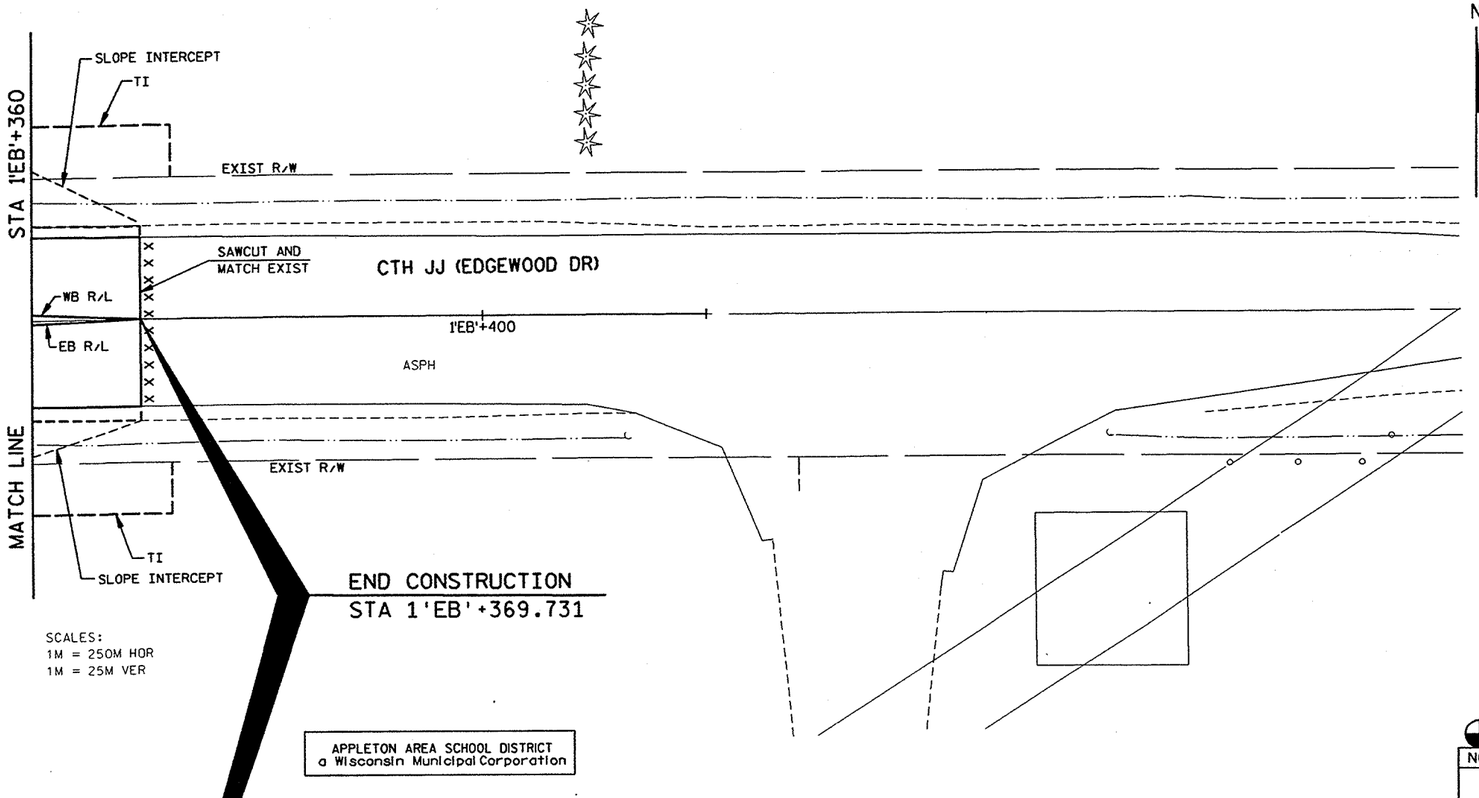
COUNTY: OUTAGAMIE

STATE PROJECT NO: 4984-00-95

SHEET NO: 5.17 M

FILE NAME: E1339A98/SHEETS /PLAN /JJPP02 .DGN TECH/ENGR: DPP/SDC
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON • 1.2.3, 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.
PLOT DATE: 10/15/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

JAMES H. GILLESPIE &
MARY GILLESPIE

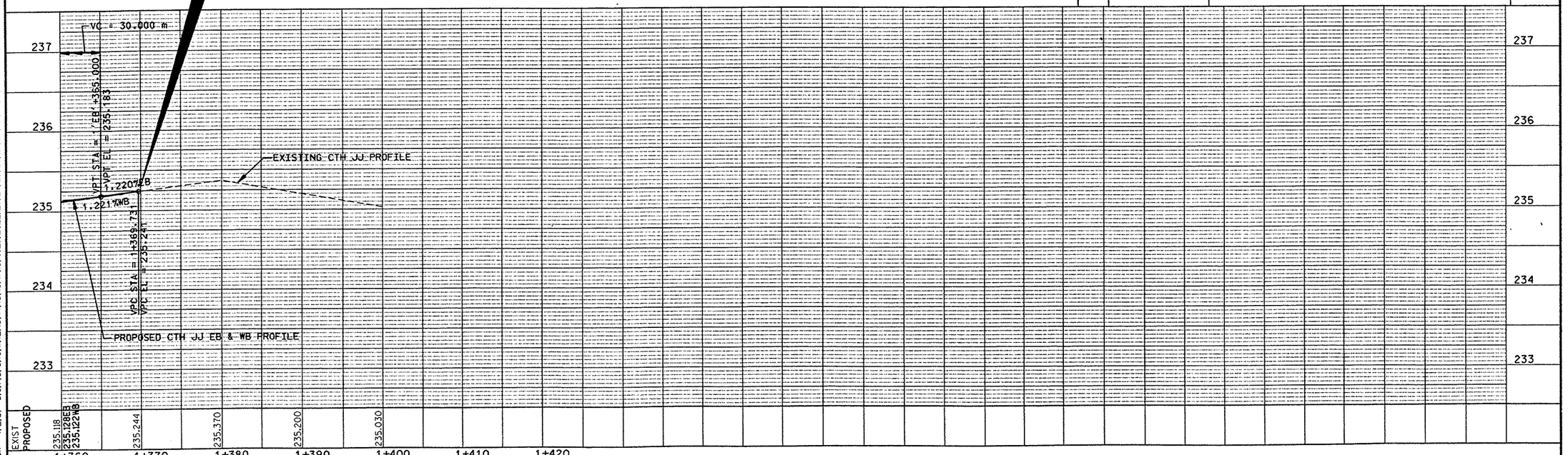


SCALES:
1M = 250M HOR
1M = 25M VER

APPLETON AREA SCHOOL DISTRICT
a Wisconsin Municipal Corporation

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.



PLAN AND PROFILE - CTH JJ (EDGEWOOD DRIVE)	0 5 10	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 5.18 M

WISDOT: MSHT40

FILE NAME: E1339A98/SHEETS /PLAN /JJPP03 .DGN TECH/ENGR: DPP/SDC
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON • 1, 2, 3, 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.
PLOT DATE: 05/14/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

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.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

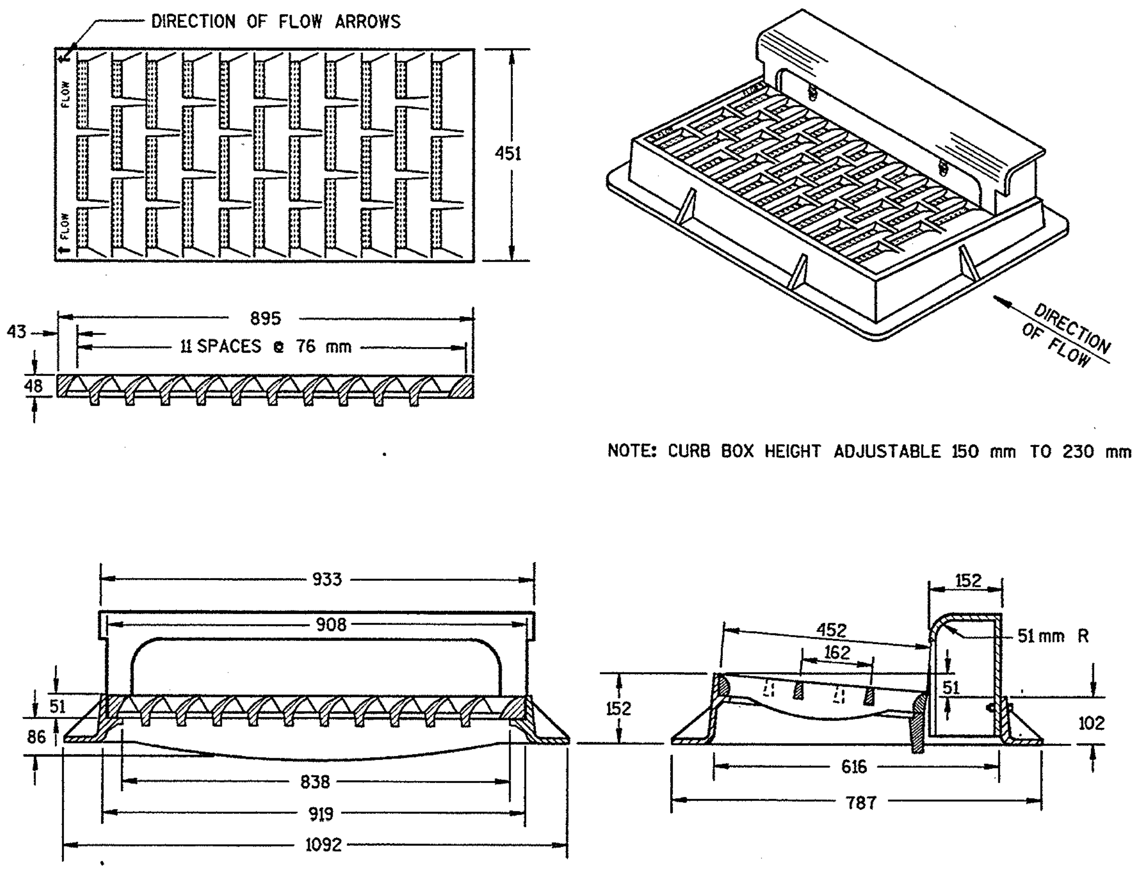
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

NOTE

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE SHOWN.

NOTE:
GRATE IS REVERSIBLE.

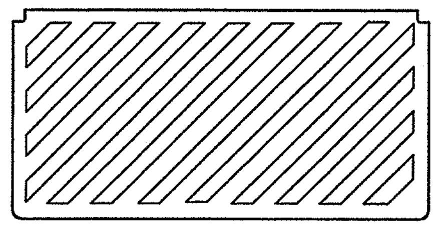


NOTE: CURB BOX HEIGHT ADJUSTABLE 150 mm TO 230 mm

TYPE "H"

(APPROXIMATE WEIGHT 191 kg)
FRAME.............. 79 kg
GRATE............... 63 kg
CURB BOX......... 49 kg

300 mm DIAGONAL BARS WITH 41 mm OPENINGS

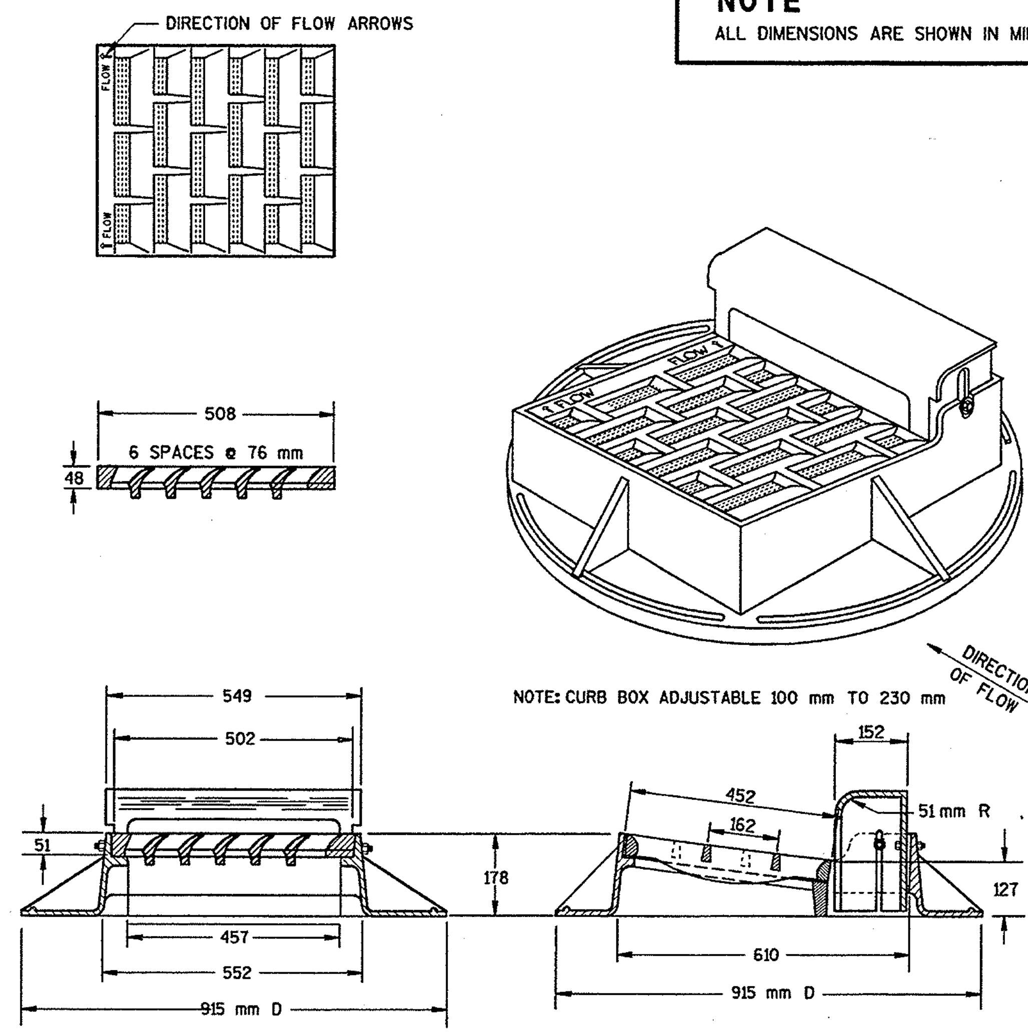


SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 895 mm X 451 mm X 51 mm)
(APPROXIMATE WEIGHT 78 kg)

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

NOTE:
GRATE IS REVERSIBLE.



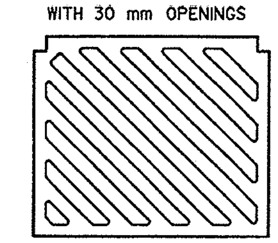
NOTE: GRATE IS REVERSIBLE.

NOTE: CURB BOX ADJUSTABLE 100 mm TO 230 mm

TYPE "A"

(APPROXIMATE WEIGHT 325 LBS.)
FRAME.............. 157 LBS.
GRATE.............. 84 LBS.
CURB BOX......... 84 LBS.

30 mm DIAGONAL BARS WITH 30 mm OPENINGS



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 502 mm X 432 mm X 51 mm)
GRATE.............. 38 kg
(NOTED AS TYPE A-S ON DRAINAGE TABLE)

NOTE:
GRATE IS REVERSIBLE.

INLET COVERS
TYPE A, H, A-S, & H-S

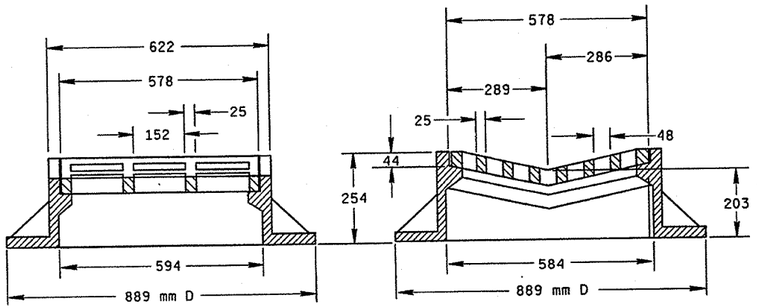
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

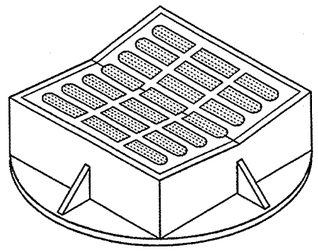
APPROVED 8/27/98
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA
M

LEVELS ON • 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:

S.D.D. 8 A 5-15a

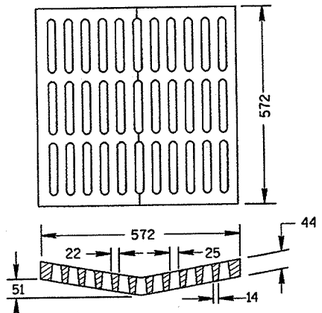




TYPE "B"

(APPROXIMATE WEIGHT 179 kg)

FRAME..... 129 kg
GRATE..... 50 kg

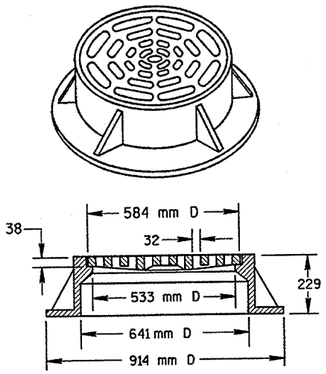


ALTERNATIVE GRATE FOR FOR TYPE "B" COVER

(APPROXIMATE GRATE WEIGHT 57 kg)
GRATE.....57 kg

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

(APPROXIMATE WEIGHT 154 kg)

FRAME..... 107 kg
GRATE..... 48 kg

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.

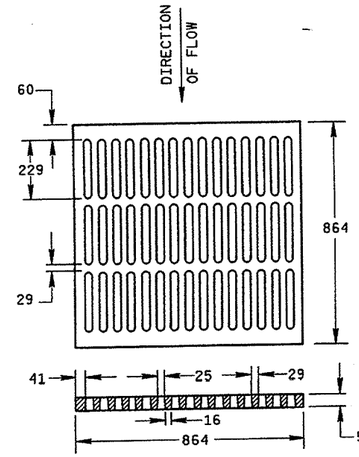
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

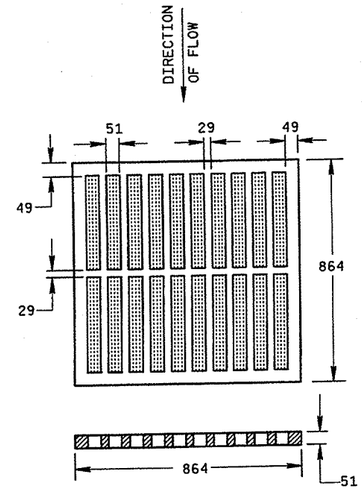


ALTERNATIVE TYPE "MS"

(APPROXIMATE GRATE WEIGHT 166 kg)
GRATE.....166 kg

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

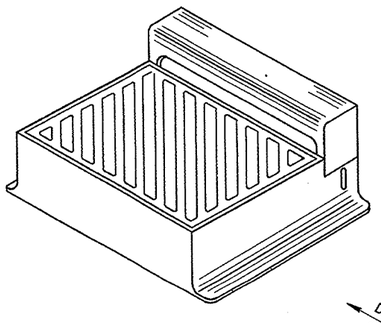


TYPE "MS"

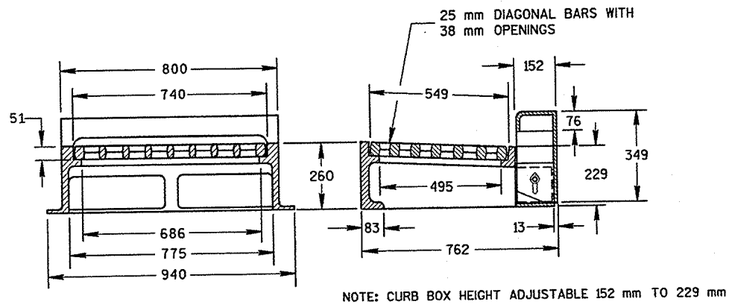
(APPROXIMATE GRATE WEIGHT 122 kg)
GRATE.....122 kg

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 152 mm TO 229 mm

TYPE "WM"

(APPROXIMATE WEIGHT 304 kg)

FRAME..... 163 kg
GRATE..... 73 kg
CURB BOX..... 68 kg

INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 8/28/98 DATE
Tony L. Thurmaier
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

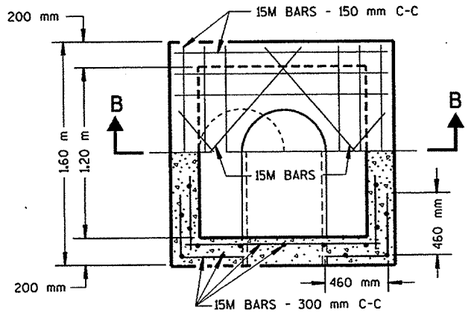
M

S.D.D. 8 A 5-15b

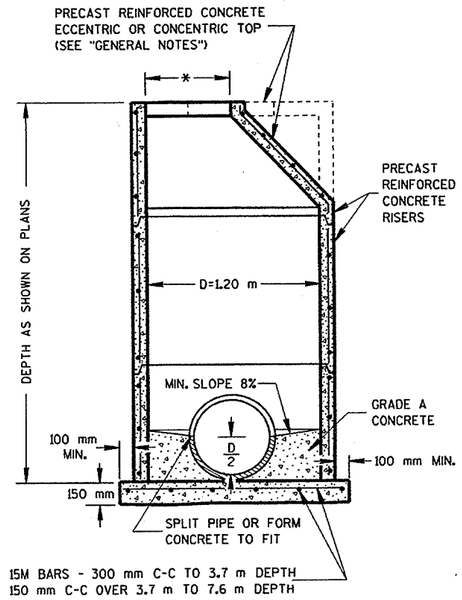
S.D.D. 8 A 5-15b

LEVELS ON - 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

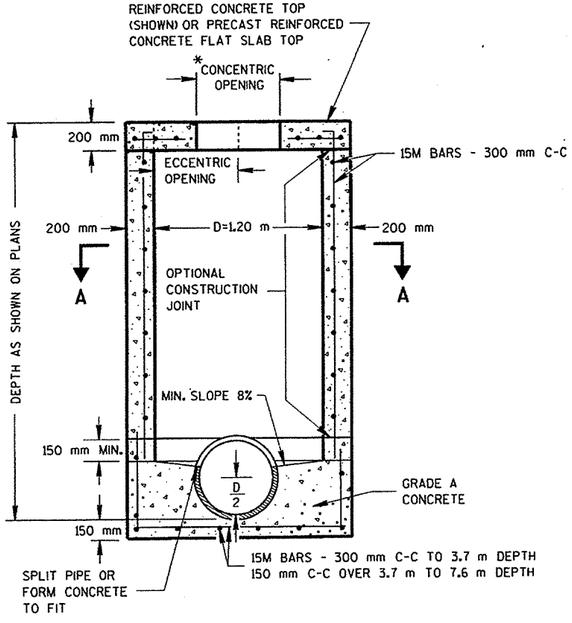
FILE NAME:



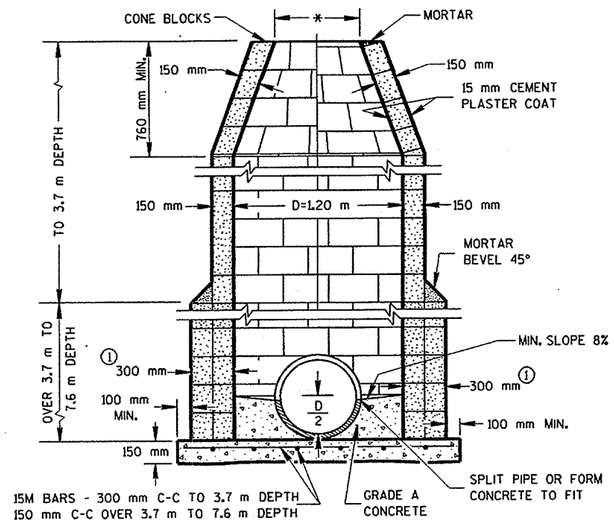
HALF SECTION A-A



PRECAST REINFORCED CONCRETE



SECTION B-B
REINFORCED CONCRETE



CONCRETE BLOCK

MANHOLES TYPE 1

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.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 150 mm IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 1.5 m OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 1.5 m IN DEPTH: 400 mm C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 100 mm FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 250 mm; MINIMUM WALL EMBEDMENT OF 75 mm; AND BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 136 kg FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 25 mm.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 19 mm. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 50 mm CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199M.

* USE 600 mm DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 900 mm DIAMETER WITH TYPE "K" AND "M" COVERS.

① 2 COURSES 150 mm BLOCK.

MANHOLES TYPE 1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 02/07/85 DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

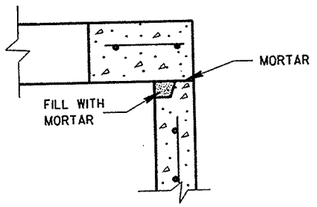
M

S.D.D. 8 B 6-3

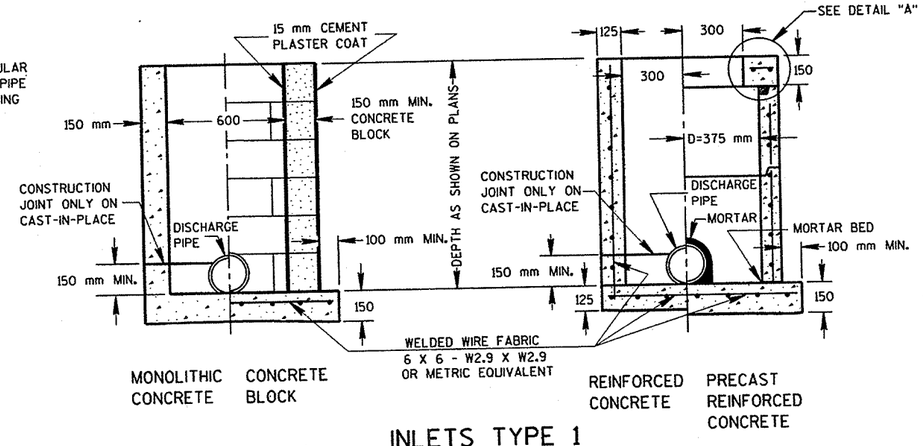
PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR:
LEVELS ON • 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
FILE NAME:

S.D.D. 8 B 6-3

*SELECTION OF SQUARE OR CIRCULAR DESIGN WILL BE BASED ON THE PIPE SIZES AND THE INLET COVER BEING UTILIZED



DETAIL "A"



INLETS TYPE 1

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.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION 199 M.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE. AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 150 mm IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 50 mm CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

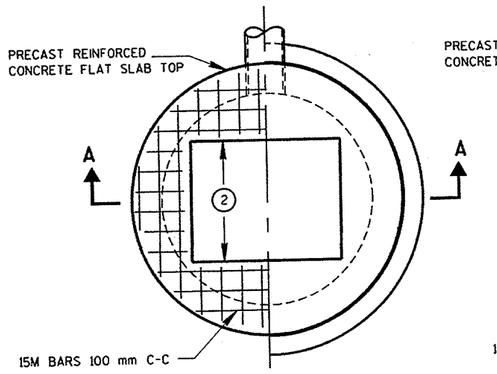
PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.

(1) USE 760 mm OPENING FOR TYPE 2 INLETS, 915 mm OPENING FOR TYPE 3 INLETS, AND 890 mm TYPE 4 INLETS.

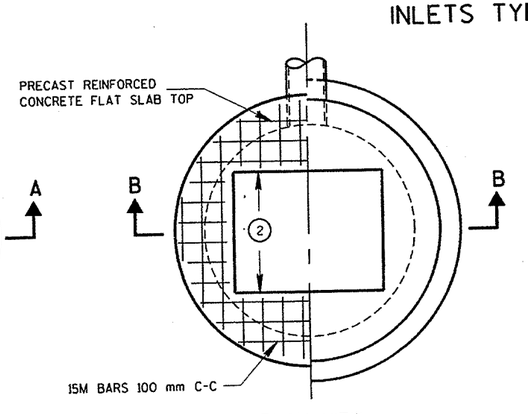
(2) USE 610 mm OPENING FOR TYPE 1, 2 & 3 INLETS, 775 mm OPENING FOR TYPE 4 INLETS.

NOTE

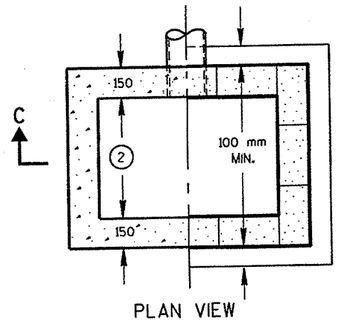
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



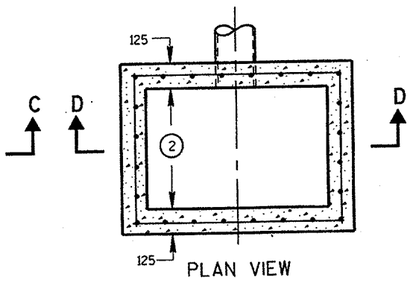
PLAN VIEW



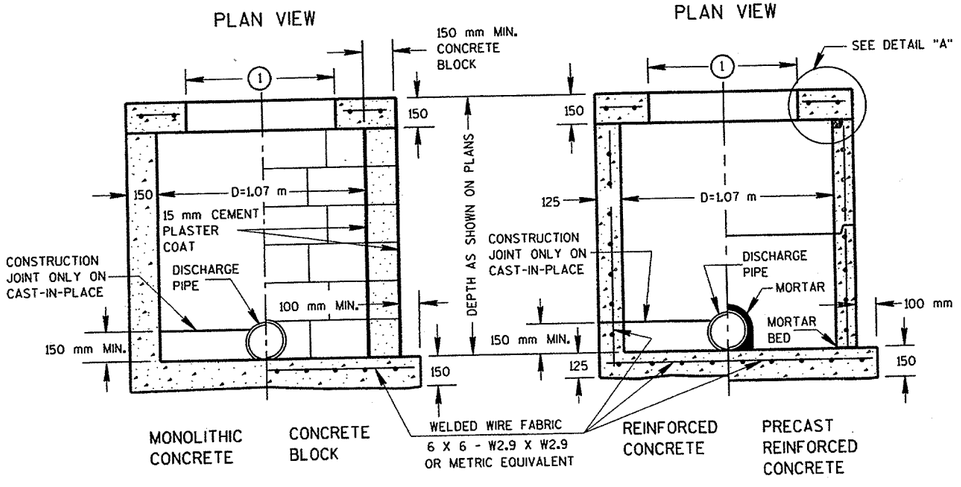
PLAN VIEW



PLAN VIEW

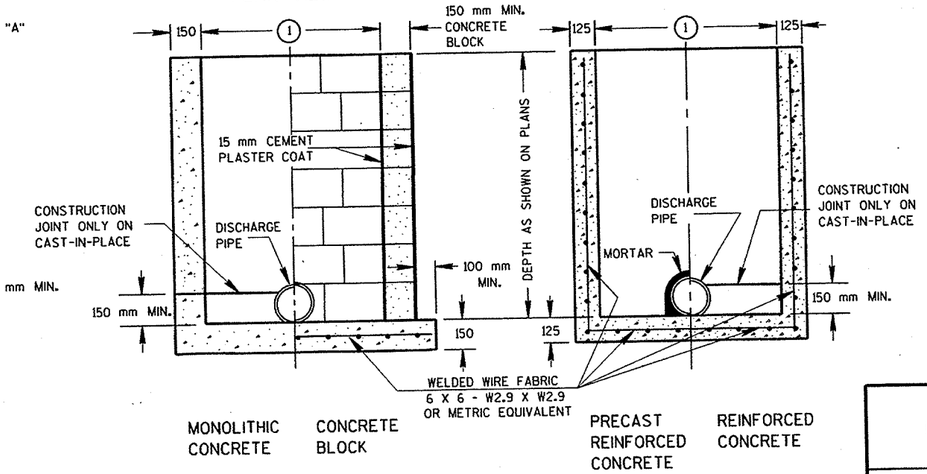


PLAN VIEW



SECTION A-A

SECTION B-B



SECTION C-C

SECTION D-D

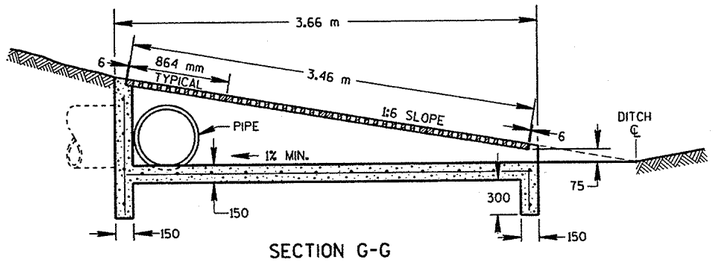
INLETS TYPE 2, 3 & 4

INLETS TYPE 1, 2, 3 & 4

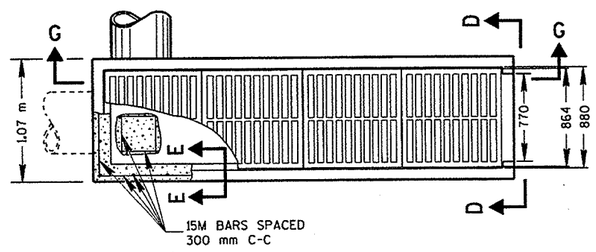
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 01/31/95 DATE
Roy L. Thomsen
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA
M

S.D.D. 8 C 1-5

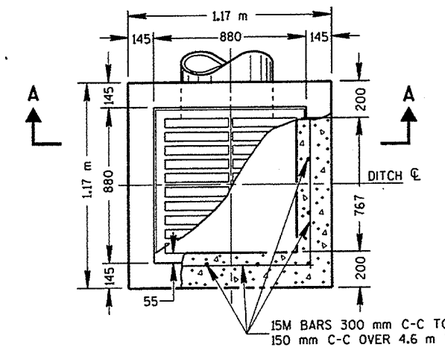


SECTION G-G

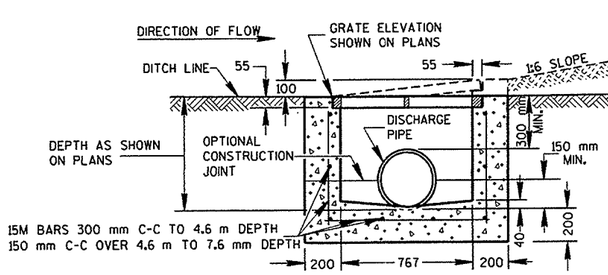


PLAN VIEW

REINFORCED CONCRETE INLET TYPE 11

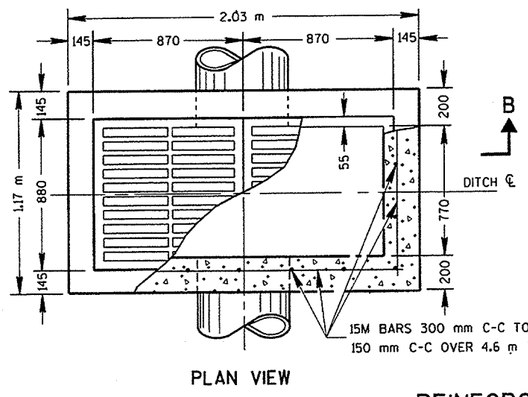


PLAN VIEW

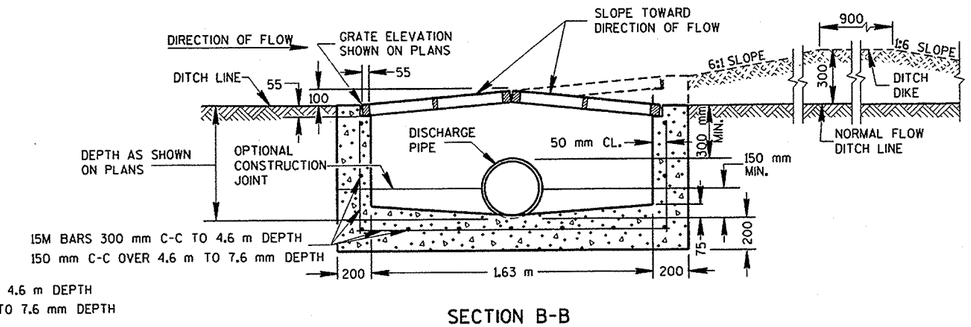


SECTION A-A

REINFORCED CONCRETE INLET TYPE 8



PLAN VIEW



SECTION B-B

REINFORCED CONCRETE INLET TYPE 9

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.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

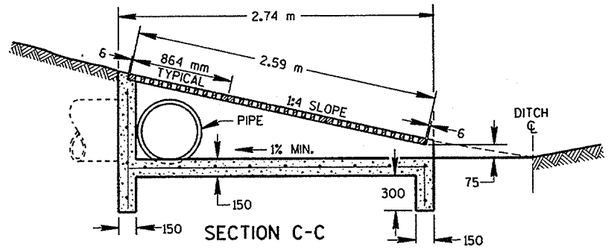
PRECAST REINFORCED CONCRETE INLET UNITS, IF USED, SHALL CONFORM TO THE REQUIREMENTS OF THE CATCH BASINS, MANHOLES AND INLETS SECTION OF THE STANDARD SPECIFICATIONS. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A CORRECTED LIST OF SIZES IS FURNISHED BY THE ENGINEER.

ALL INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 8-MS", ETC. THIS DESIGNATION IS INTERPRETED TO MEAN THAT THE NUMBER, OR FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER OR IRON CASTING TO BE USED THEREWITH TO COMPRISE THE COMPLETE UNIT.

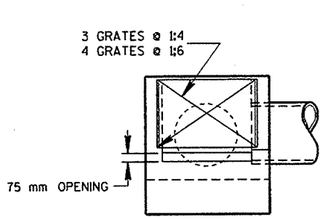
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 50 mm CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

NOTE

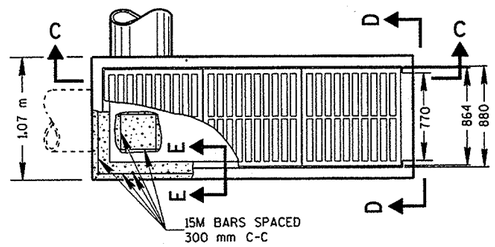
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



SECTION C-C

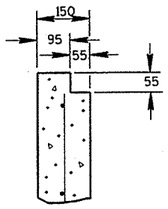


SECTION D-D



PLAN VIEW

REINFORCED CONCRETE INLET TYPE 10



SECTION E-E

INLETS TYPE 8, 9, 10 & 11

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 01/30/95 DATE
Roy L. Thomsen
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA
M

S.D.D. 8 C 5-2

FILE NAME:

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 600 mm BEHIND THE BACK OF CURBS.

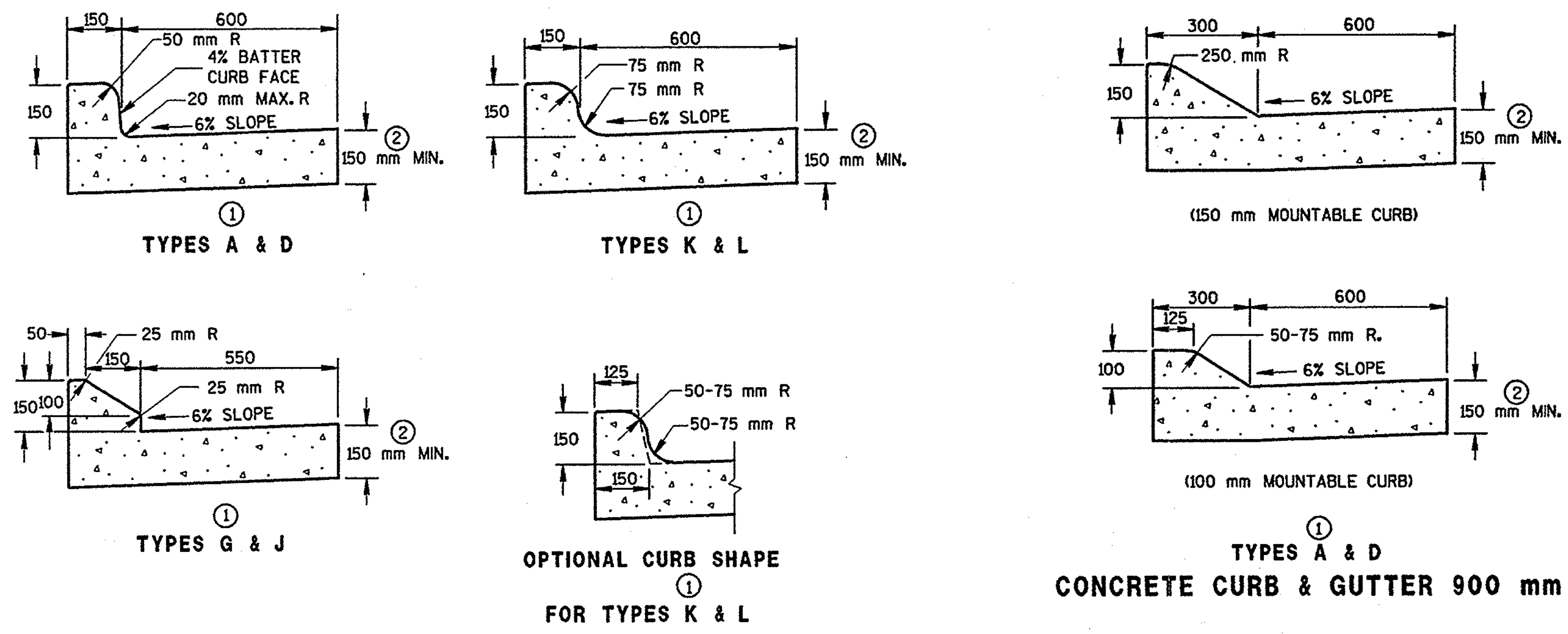
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.

(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 150 mm MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

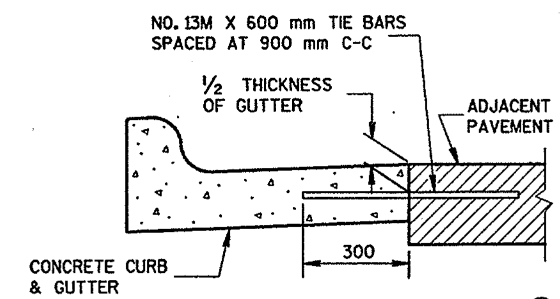
NOTE

DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

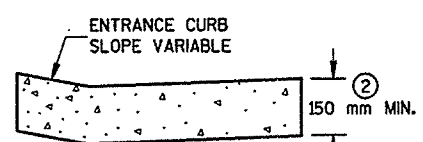


CONCRETE CURB & GUTTER 750 mm

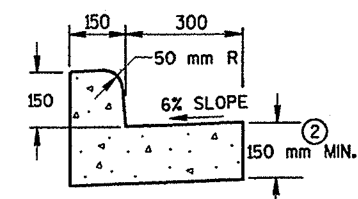
CONCRETE CURB & GUTTER 900 mm



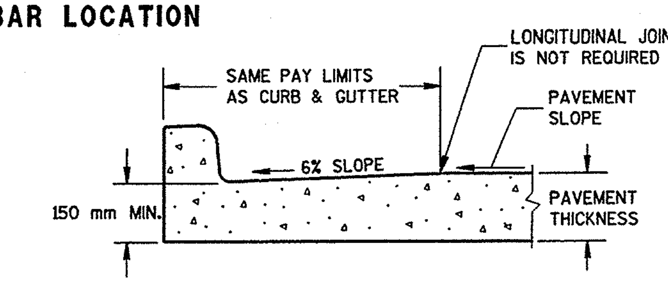
TYPICAL TIE BAR LOCATION



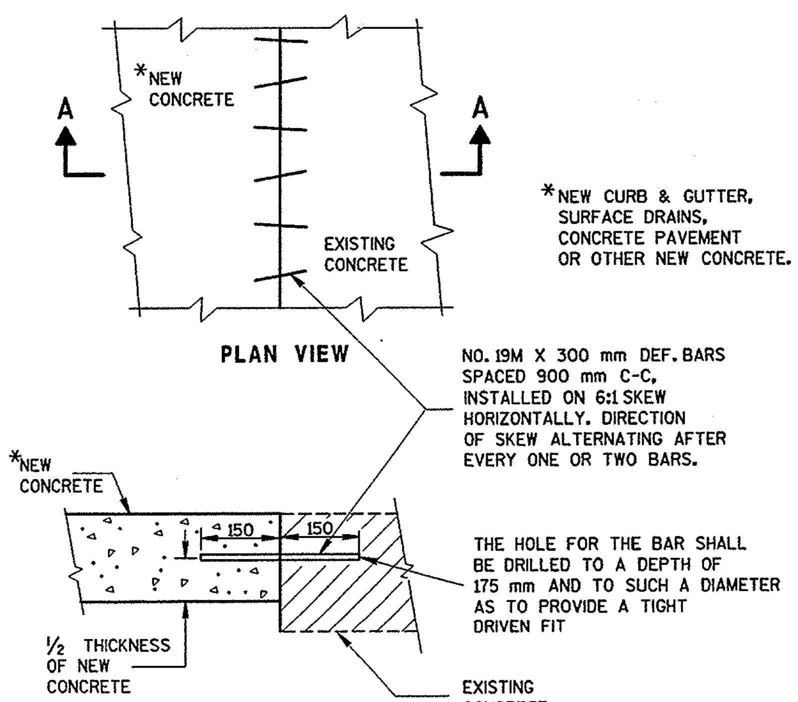
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



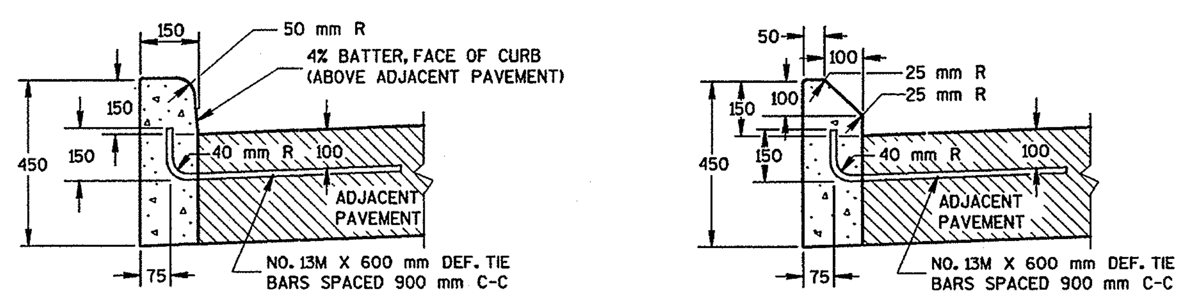
CONCRETE CURB & GUTTER 450 mm



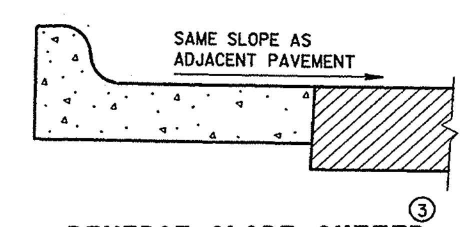
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



PAVEMENT TIES



CONCRETE CURB



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

CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 04/16/99 DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA M

LEVELS ON • 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

S.D.D. 8 D 1-13

FILE NAME:

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.

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 75 m UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

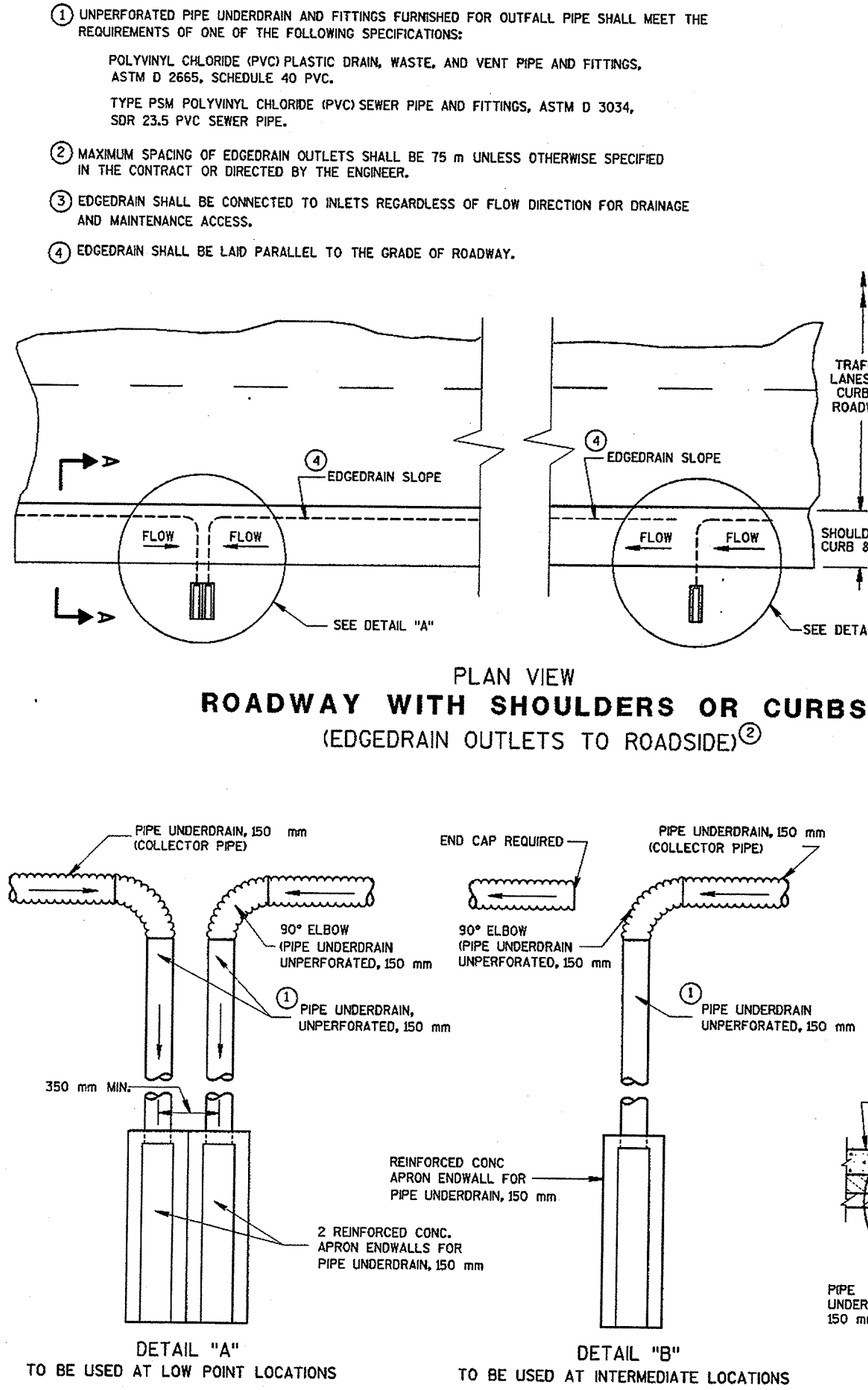
(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.

PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

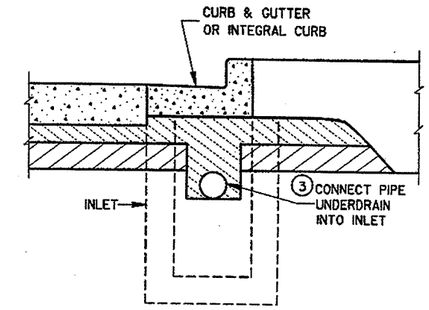
(EDGEDRAIN OUTLETS TO ROADSIDE)(2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

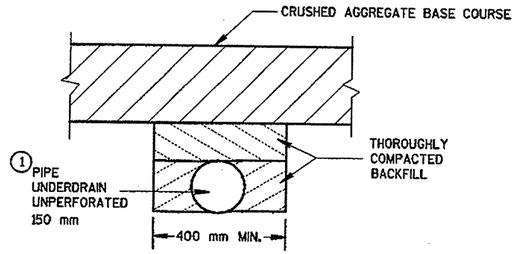
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



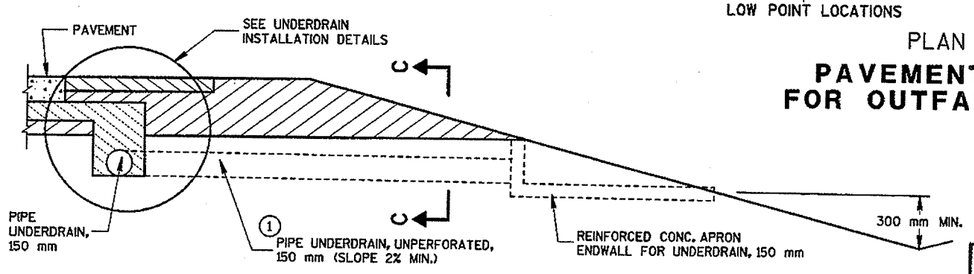
SECTION B-B

URBAN CROSS SECTION



SECTION C-C

(TRENCH FOR OUTFALL PIPE)

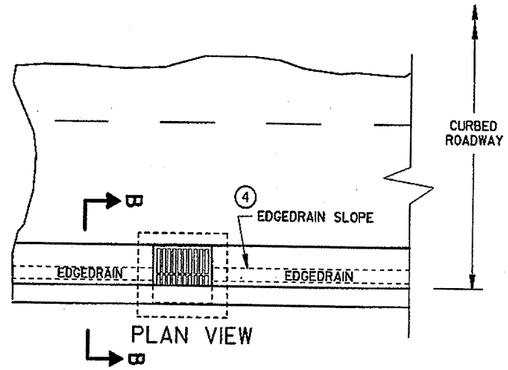


SECTION A-A

RURAL CROSS SECTION

NOTE

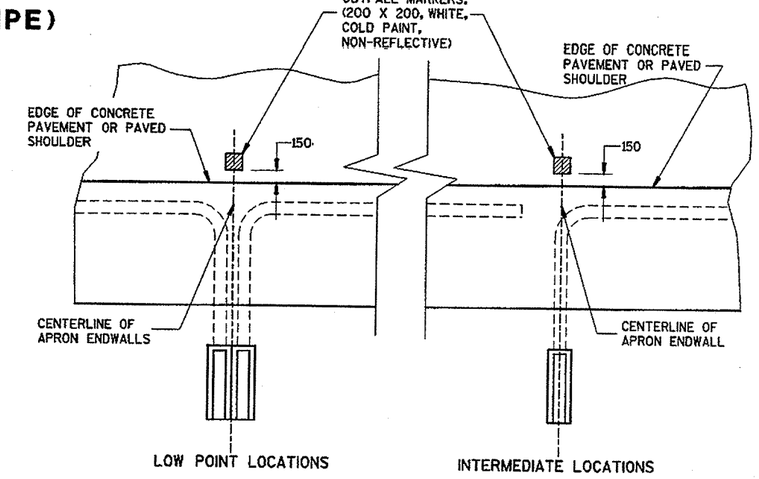
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



PLAN VIEW

ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS

EDGEDRAIN OUTLET AND OUTFALL MARKERS

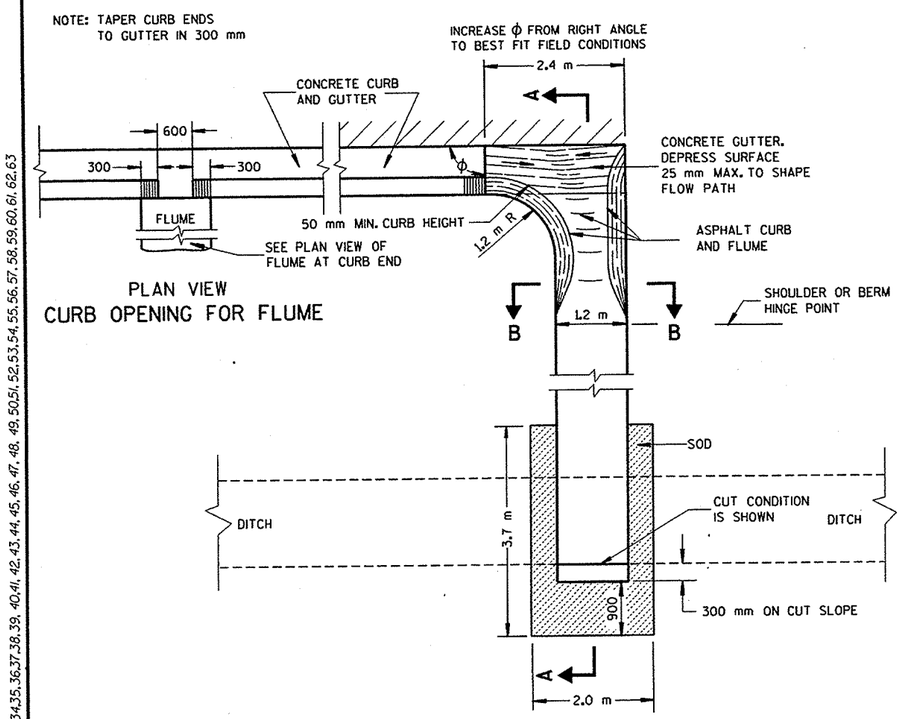
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

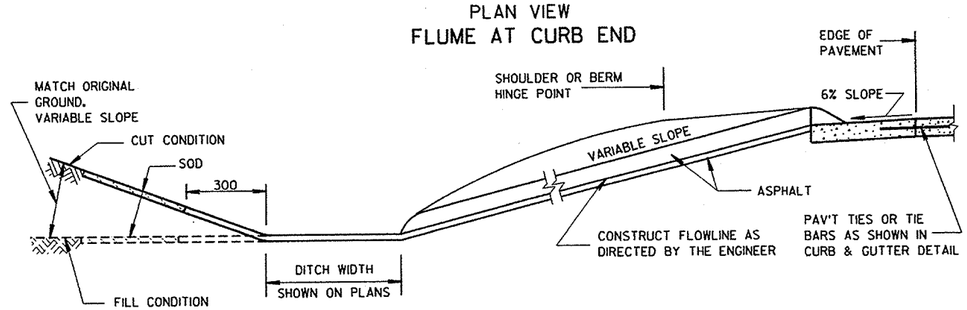
S.D.D. 8 D 15-3a

FILE NAME:

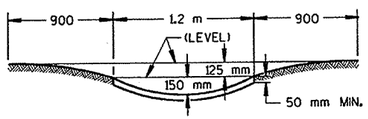
S.D.D. 8 D 15-3a

ASPHALTIC FLUME





SECTION A-A



SECTION B-B

GENERAL NOTES

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

WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE 5 mm WIDE BY 40 mm DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 1.2 m.

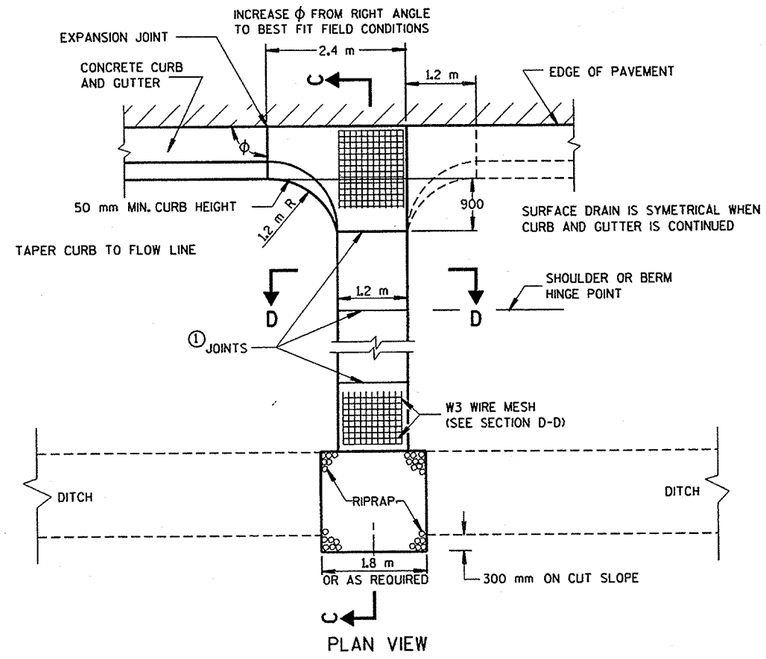
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

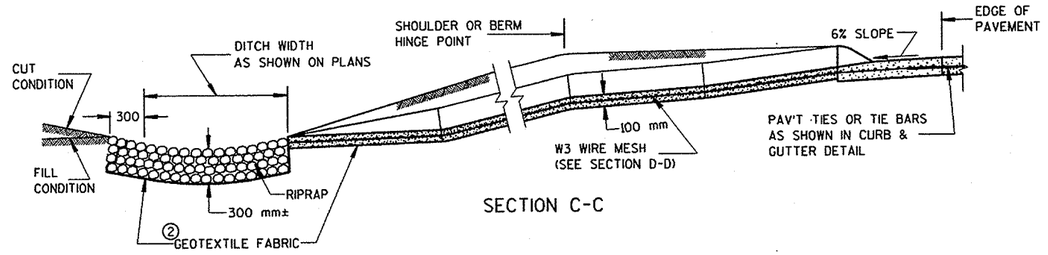
③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

NOTE

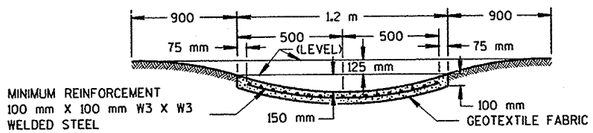
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

③ CONCRETE SURFACE DRAIN





SECTION C-C



SECTION D-D

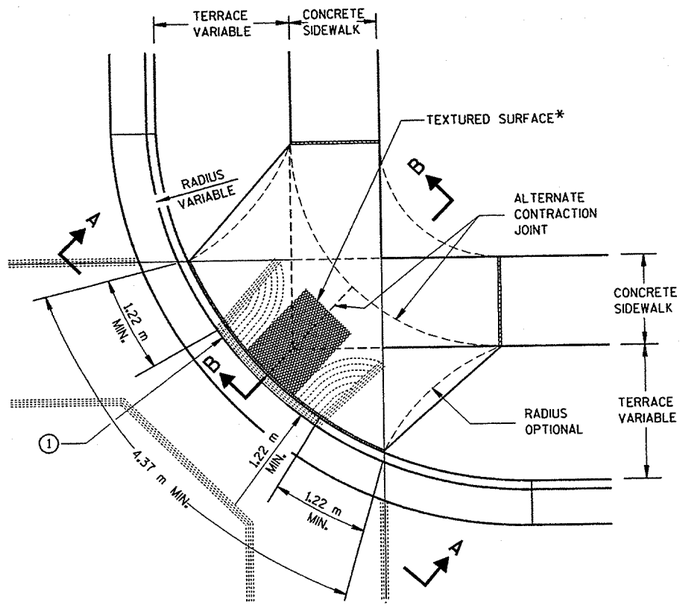
CONCRETE SURFACE DRAIN & ASPHALTIC FLUME

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 02/00/95 (DATE)
Roy L. Thompson
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA
M

S.D.D. 8 D 4-3

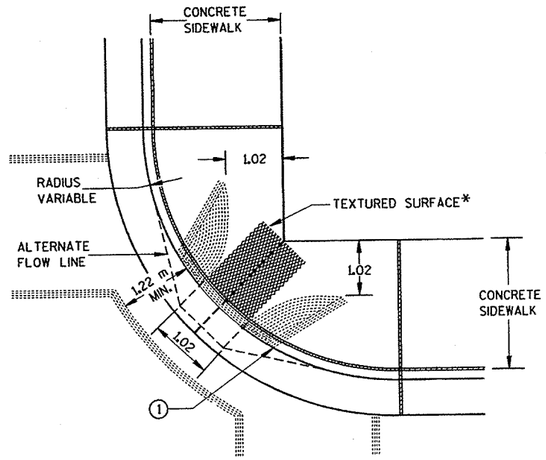
PLOT SCALE:
PLOT NAME:
REV. DATE:
LEVELS ON • 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
ORIGINATOR:
S.D.D. 8 D 4-3
FILE NAME:



PLAN VIEW

TYPE 1 RAMP

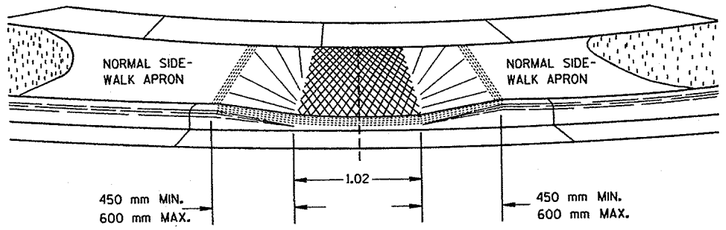
(CENTER OF CORNER RADIUS)



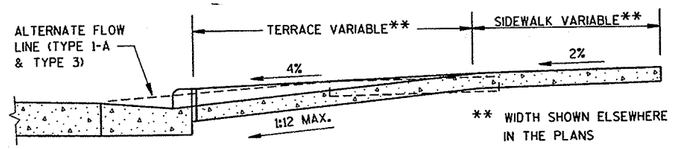
PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)



VIEW A-A

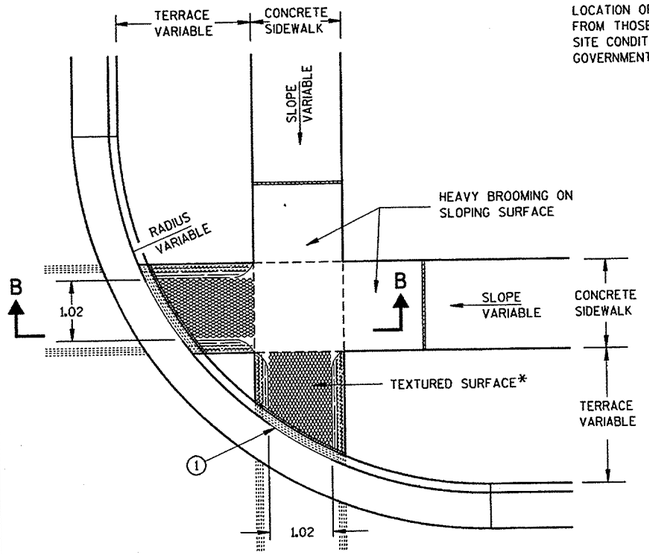


SECTION B-B

13 mm ═══ EXPANSION JOINT-SIDEWALK

– – – – – CONTRACTION JOINT

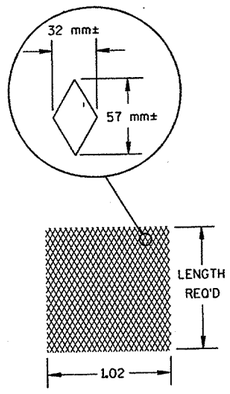
LOCATION OF JOINTS MAY BE VARIED FROM THOSE SHOWN TO BETTER FIT SITE CONDITIONS AND/OR LOCAL GOVERNMENT PREFERENCE.



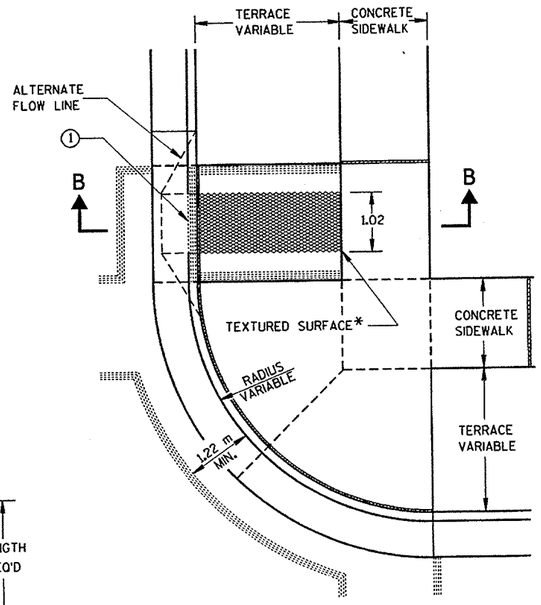
PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)



DETAIL OF DIAMOND PATTERN*



PLAN VIEW

TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

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.

RAMPS SHALL BE BUILT AT 1:12 OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 OR TYPE 1-A RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

CURB RAMPS SHALL BE MEASURED AND PAID FOR AS CONCRETE SIDEWALK AND CONCRETE CURB AND GUTTER.

SURFACE TEXTURING SHALL CONSIST OF LINEAR IMPRESSIONS APPROXIMATELY 6 mm TO 9 mm IN DEPTH AND WIDTH, ORIENTED TO PROVIDE A UNIFORM PATTERN OF DIAMOND SHAPES MEASURING APPROXIMATELY 32 mm IN WIDTH BY 57 mm IN LENGTH, WITH THE LENGTH BEING PARALLEL TO THE DIRECTION OF PEDESTRIAN MOVEMENT. THIS SURFACE TEXTURE MAY BE ACHIEVED BY IMPRESSING AND REMOVING A PIECE OF EXPANDED METAL REGULAR INDUSTRIAL MESH INTO THE SURFACE OF THE RAMP WHILE THE CONCRETE IS IN A PLASTIC STATE.

(1) THE RAMP SHALL BE BORDERED ON BOTH SIDES AND ON THE CURB LINE WITH A 100 mm WIDE YELLOW PAINT STRIPE OR WITH BRICK OF A CONTRASTING COLOR. NORMALLY THE PAINT STRIPE ALTERNATE WILL BE USED. THE MUNICAPALITY OR THE DEPARTMENT WILL APPLY THIS STRIPPING UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.

IF A MUNICAPALITY REQUIRES THE BRICK ALTERNATE, SPECIAL DETAILS AND PROVISIONS ARE SHOWN ELSEWHERE IN THE PLANS.

NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

CURB RAMPS

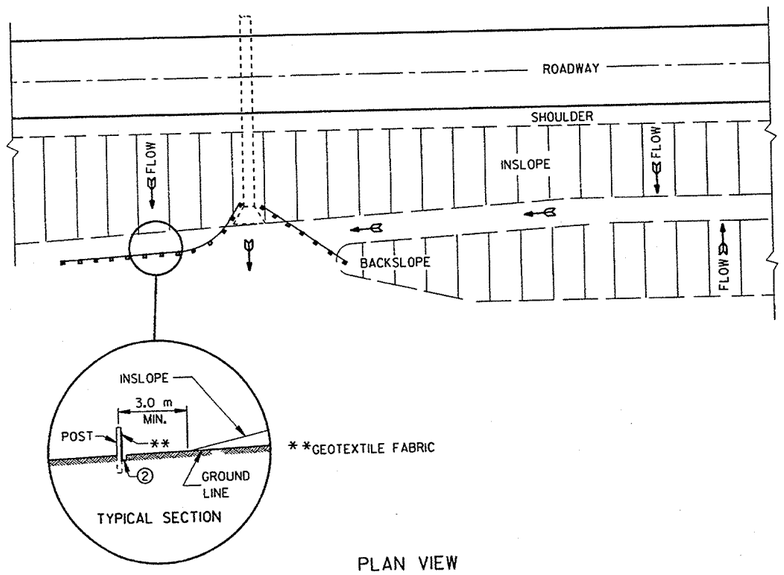
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 01/27/95 DATE
Roy K. Thomsen
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

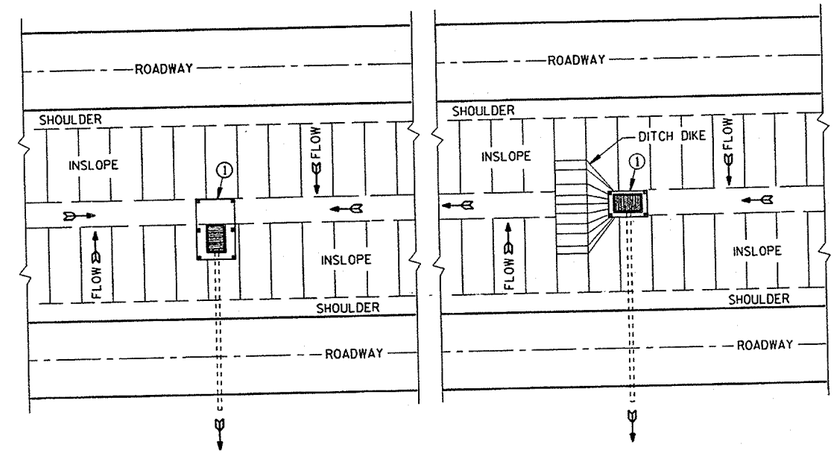
M

S.D.D. 8 D 5-8



PLAN VIEW

TYPICAL APPLICATIONS OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

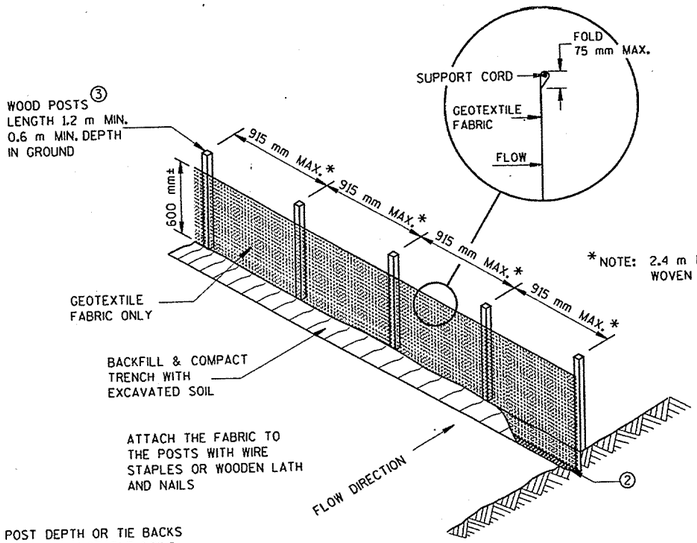
GENERAL NOTES

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 50 mm X 100 mm WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.

② TRENCH SHALL BE A MINIMUM OF 100 mm WIDE & 150 mm DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

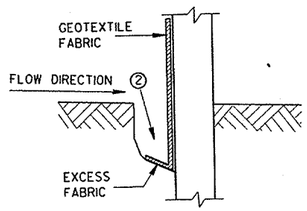
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 30 mm X 30 mm OF OAK OR HICKORY.



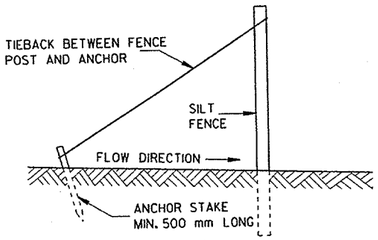
*NOTE: 2.4 m MAX. POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

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 03/11/96 DATE
Roy L. Thompson
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA
M

S.D.D. 8 E 9-5

PLOT SCALE:
PLOT NAME:
REV. DATE:
LEVELS ON • 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
ORIGINATOR:
S.D.D. 8 E 9-5
FILE NAME:

METAL APRON ENDWALLS

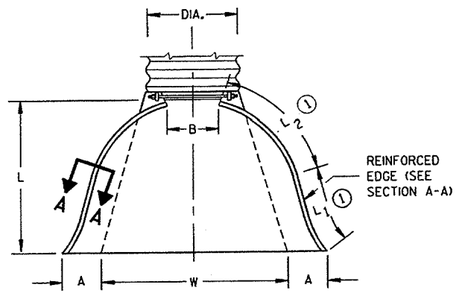
PIPE DIA. (mm)	MIN. THICK. (mm) STEEL	MIN. THICK. (mm) ALUM.	DIMENSIONS (MILLIMETERS) A (±1")	B (MAX.)	H (±1")	L (±1½")	L_1 ①	L_2 ①	W (±2")	APPROX. SLOPE	BODY
300	1.6	1.5	150	150	150	535	305	445	610	1:2.5	1 Pc.
375	1.6	1.5	180	205	150	660	355	552	760	1:2.5	1 Pc.
450	1.6	1.5	205	255	150	790	380	718	915	1:2.5	1 Pc.
525	1.6	1.5	230	305	150	915	455	752	1065	1:2.5	1 Pc.
600	1.6	1.5	255	330	150	1040	455	949	1220	1:2.5	1 Pc.
750	2.0	1.9	305	405	205	1300	455	1327	1525	1:2.5	1 Pc.
900	2.0	1.9	355	480	230	1525	610	1905	1830	1:2.5	2 Pc.
1050	2.8	2.7	405	560	280	1755	610	1921	2135	1:2.5	2 Pc.
1200	2.8	2.7	455	685	305	1980	610	2057	2285	1:2.5	3 Pc.
1350	2.8	2.7	455	760	305	2140	760	2172	2590	1:2.25	3 Pc.
1500	2.8×	2.7×	455	840	305	2210	—	—	2895	1:2	3 Pc.
1650	2.8×	2.7×	455	915	305	2210	—	—	3050	1:2	3 Pc.
1800	2.8×	2.7×	455	990	305	2210	—	—	3200	1:2	3 Pc.
1950	2.8×	2.7×	455	1070	305	2210	—	—	3355	1:1.5	3 Pc.
2100	2.8×	2.7×	455	1145	305	2210	—	—	3505	1:1.5	3 Pc.
2250	2.8×	2.7×	455	940	305	2210	—	—	3660	1:1.5	3 Pc.
2400	2.8×	2.7×	455	890	305	2210	—	—	3960	1:1.5	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

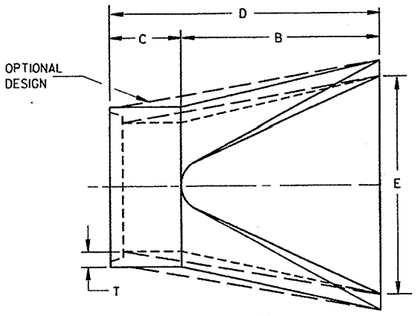
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (mm)	DIMENSIONS (MILLIMETERS) T	A	B	C	D	E	G	APPROX. SLOPE
305	51	102	610	1241	1851	610	51	1:3
380	57	152	686	1168	1854	762	57	1:3
450	64	229	686	1168	1854	914	64	1:3
525	70	229	915	953	1867	1067	70	1:3
600	76	241	1105	762	1867	1219	76	1:3
675	83	267	1257	610	1867	1372	83	1:3
750	89	305	1372	502	1867	1524	89	1:3
900	102	381	1600	883	2483	1829	102	1:3
1050	114	533	1600	889	2489	1981	114	1:3
1200	127	610	1829	660	2489	2134	127	1:3
1350	140	686	1651	* 635 **889	* 2496 ** 2540	2286	140	1:2.4
1500	152	* 762 ** 924	1524	991	2515	2448	127	1:2
1650	165	* 610 ** 762	* 1829 ** 1981	* 533 **686	2515	2591	140	1:2
1800	178	* 610 ** 915	1981	533	2515	2743	152	1:2
1950	190	* 610 ** 915	1981	533	2515	2896	165	1:2
2100	203	915	2299	533	2832	3048	165	1:1.5
2250	216	1041	2222	610	2832	3353	165	1:1.5

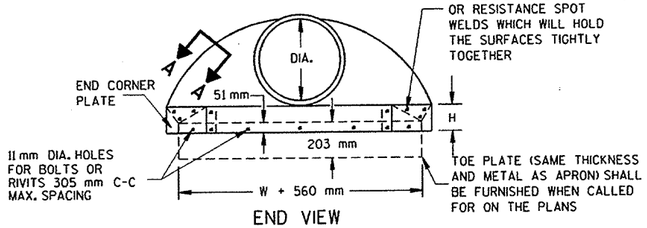
* MINIMUM
** MAXIMUM



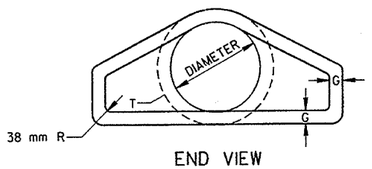
PLAN VIEW



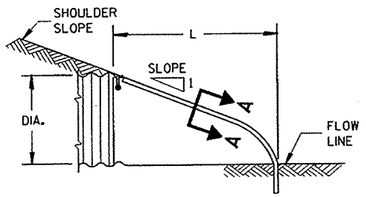
PLAN



END VIEW

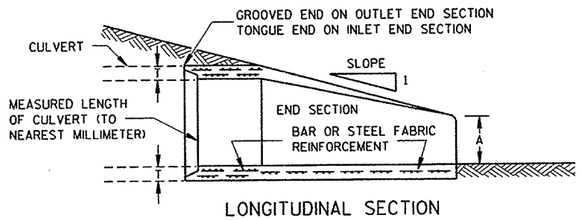


END VIEW



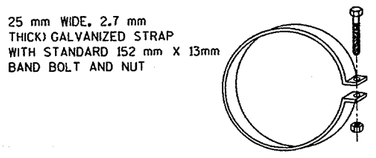
SIDE ELEVATION

METAL ENDWALLS



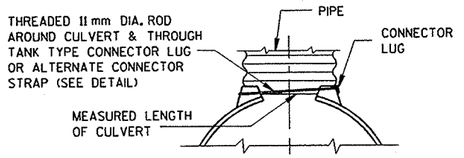
LONGITUDINAL SECTION

CONCRETE ENDWALLS

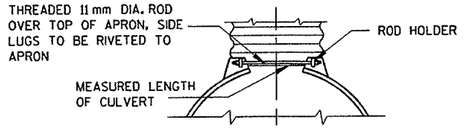


ALTERNATE FOR TYPE 1 CONNECTION

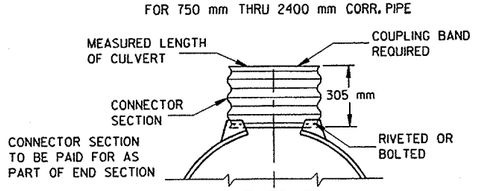
END SECTION CONNECTOR STRAP



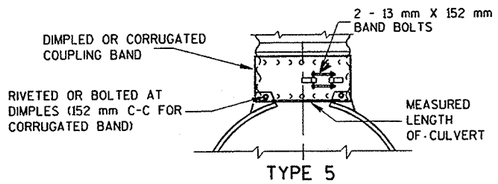
TYPE 1
FOR 300 mm THRU 600 mm CORR. PIPE



TYPE 2
FOR 750 mm THRU 2400 mm CORR. PIPE



TYPE 3
FOR 1050 mm THRU 2400 mm CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

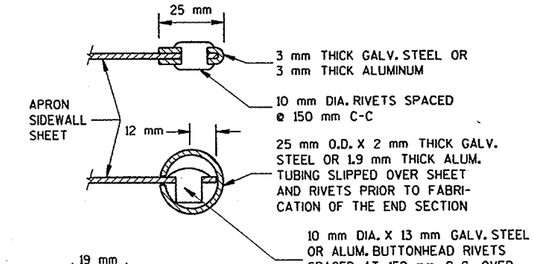
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 1500 mm DIAMETER PIPE AND LARGER SHALL HAVE 2.8 mm SIDES AND 3.5 mm CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 1500 mm DIAMETER PIPE AND LARGER SHALL HAVE 3.4 mm SIDES AND 3.4 mm CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE 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 1500 mm THROUGH 2400 mm DIAMETER 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 152 mm BETWEEN APRON ENDWALLS.

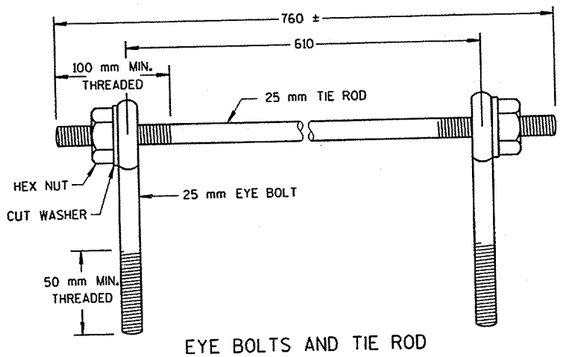
① FOR PIPE SIZES UP TO 1500 mm DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

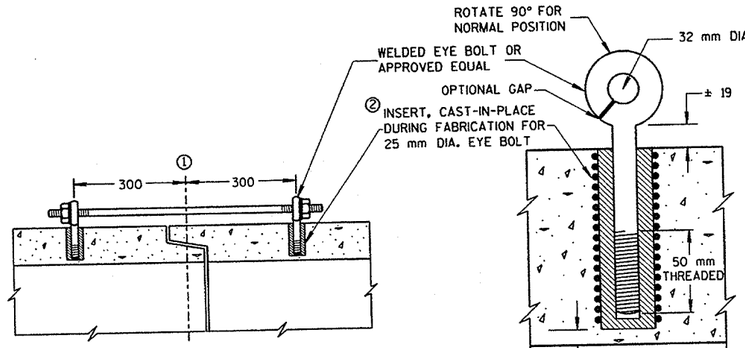
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 01/27/95 DATE
Roy K. Thimmig
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA
M

S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

CONCRETE CULVERT PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED ON THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES. UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICATED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO CULVERT PIPE, REINFORCED CONCRETE CULVERT PIPE, OR REINFORCED CONCRETE PIPE CATTLE PASS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

① CENTERLINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

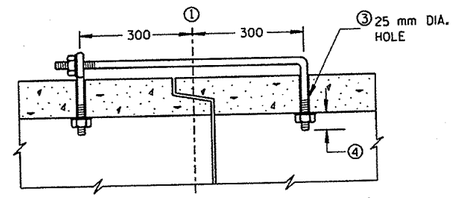
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED.

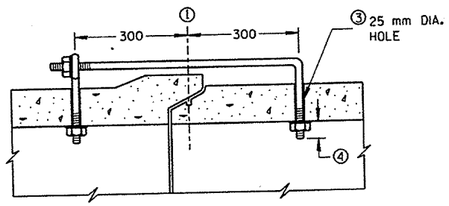
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 50 mm.

⑤ ROD DIAMETER + 25 mm.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 13 mm OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)



(MODIFIED BELL PIPE)

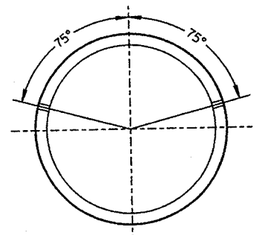
LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
400-600	115	160
750	130	180
900	140	180
1000	150	
1200	165	
1500	190	
1650	200	

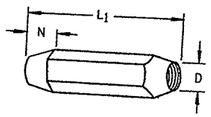
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
300-1500	16	16	125	13
1650-2100	19	19	125	13
2250-2700	25	25	180	36

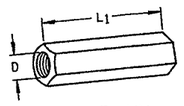


PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



TAPERED



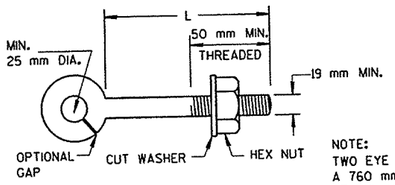
PLAIN

RIGHT AND LEFT THREADS

SLEEVE NUTS

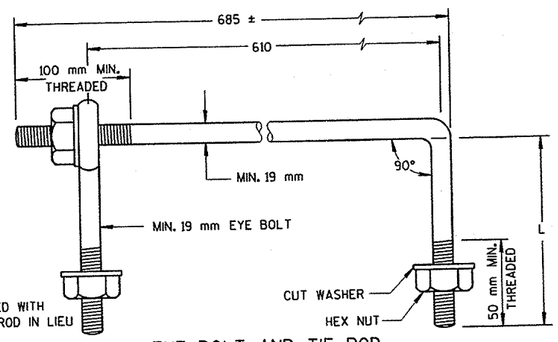
NOTE

ALL DIMENSIONS IN THIS DRAWING ARE IN MILLIMETERS.



EYE BOLT

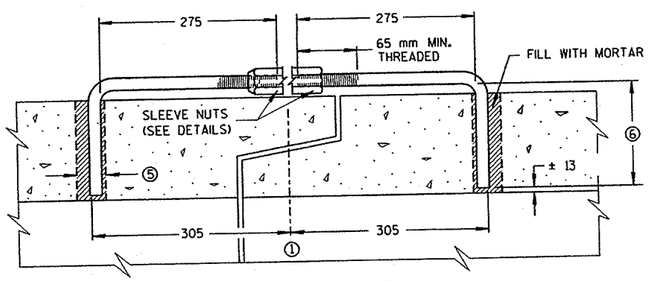
NOTE:
TWO EYE BOLTS MAY BE USED WITH A 760 mm LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

(JOINT TIES FOR 450 mm TO 1650 mm DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)



LONGITUDINAL SECTION

(JOINT TIES FOR 300 mm TO 2700 mm DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

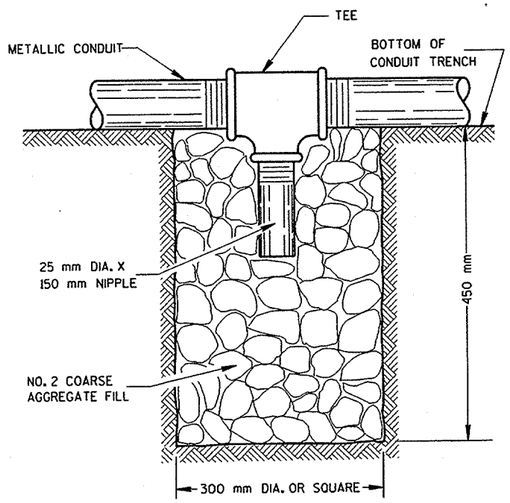
JOINT TIES FOR CONCRETE PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 01/27/95 DATE
Roy L. Thompson
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

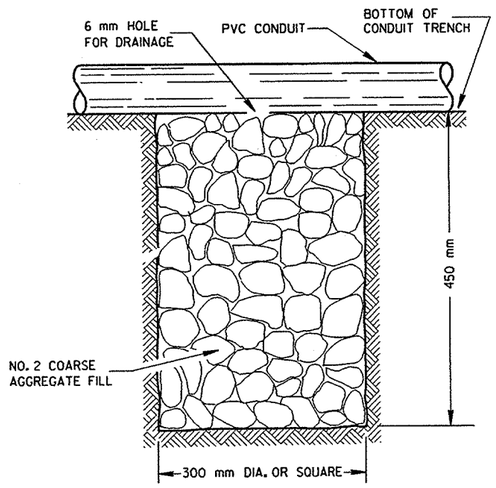
M

S.D.D. 8 F 4-5



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 600 mm MINIMUM AND 900 mm MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 450 mm MIN. AND 900 mm MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

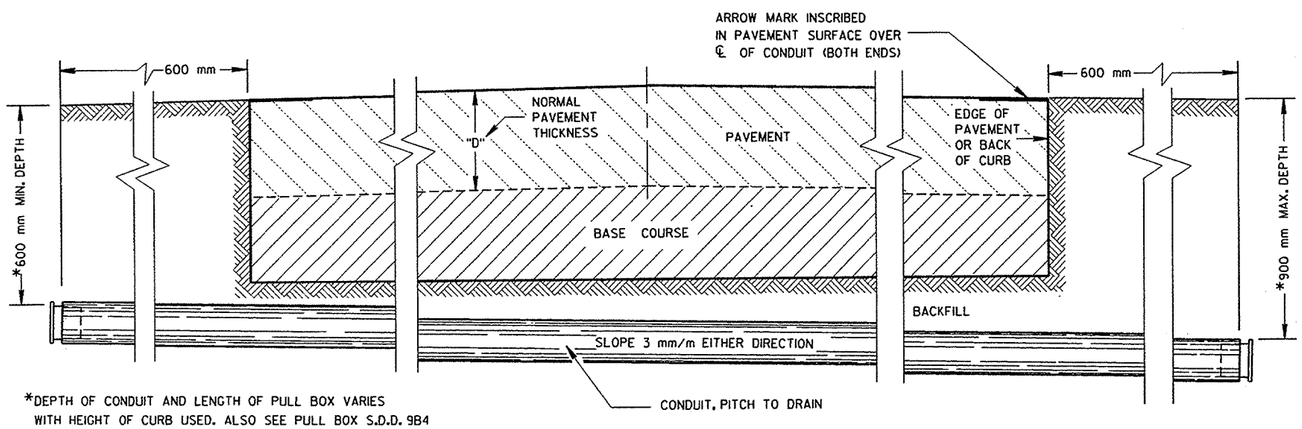
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

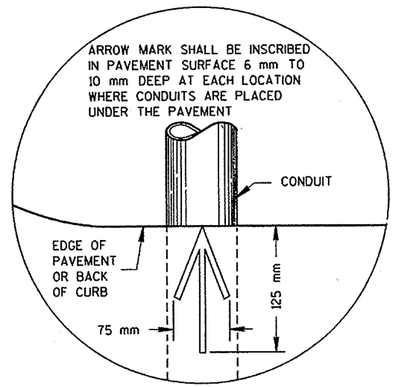
ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS



PLAN VIEW

ARROW MARK

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/21/96
DATE

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

FHWA

M

S.D.D. 9 B 2-6

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN MILLIMETERS		TYPE OF PIPE									
		CORRUGATED STEEL									POLYETHYLENE SDR 32.5
PIPE DIAMETER (INSIDE)	A	300	300	300	450	450	450	600	600	600	300
PIPE LENGTH **	B	600	750	900	600	750	900	900	1050	1200	600
WALL THICKNESS	C	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	10
COVER	D	260	260	260	413	413	413	565	565	565	260
FRAME	E	368	368	368	521	521	521	676	676	676	368
FRAME	F	217	217	217	368	368	368	521	521	521	217
FRAME	G	293	293	293	445	445	445	597	597	597	293
WEIGHT IN kg											
FRAME AND COVER		27	27	27	50	50	50	70	70	70	27

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 1200 mm (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

POLYETHYLENE PULL BOXES SHALL NOT BE INSTALLED IN CONCRETE OR ASPHALTIC PAVEMENT. PULL BOXES LOCATED IN THE ROADWAY SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 6 mm.

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE. THE MECHANICAL CONNECTION (INSIDE AND OUTSIDE) TO THE PULL BOX, SHALL BE TOTALLY AND PERMANENTLY SEALED WITH A SILICONE OR RUBBERIZED CAULKING COMPOUND AS APPROVED BY THE ENGINEER.

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

DRAIN DUCT SHALL BE MEASURED AND PAID FOR SEPARATELY.

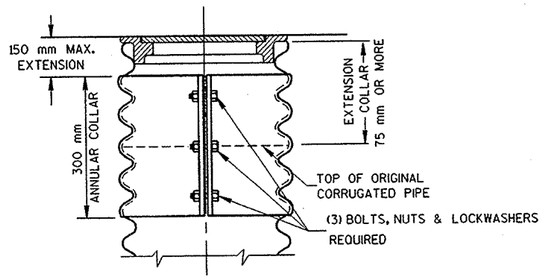
RODENT WIRE SCREEN SHALL BE 3 mm STAINLESS STEEL MESH AND BE INSTALLED WITH A STAINLESS STEEL HOSE CLAMP OF SUFFICIENT SIZE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

IF PULL BOX EQUIPMENT GROUNDING IS REQUIRED USING AN EQUIPMENT GROUNDING ELECTRODE IN EACH PULL BOX, THE EQUIPMENT GROUNDING ELECTRODE SHALL BE 15 mm X 2400 mm, COPPERCLAD, AND BE EXOTHERMICALLY WELDED TO A #4 AWG, COPPER, STRANDED WIRE (BARE OR GREEN INSULATED). THE #4 AWG WIRE SHALL BE 1200 mm IN LENGTH, NEATLY COILED, TAPED AND AVAILABLE FOR USE WHEN REQUIRED.



CORRUGATED PIPE EXTENDER

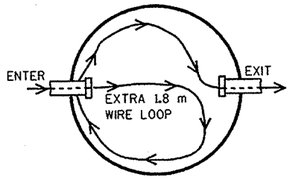
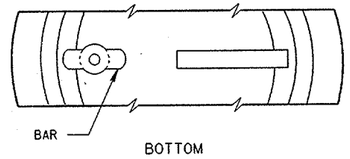


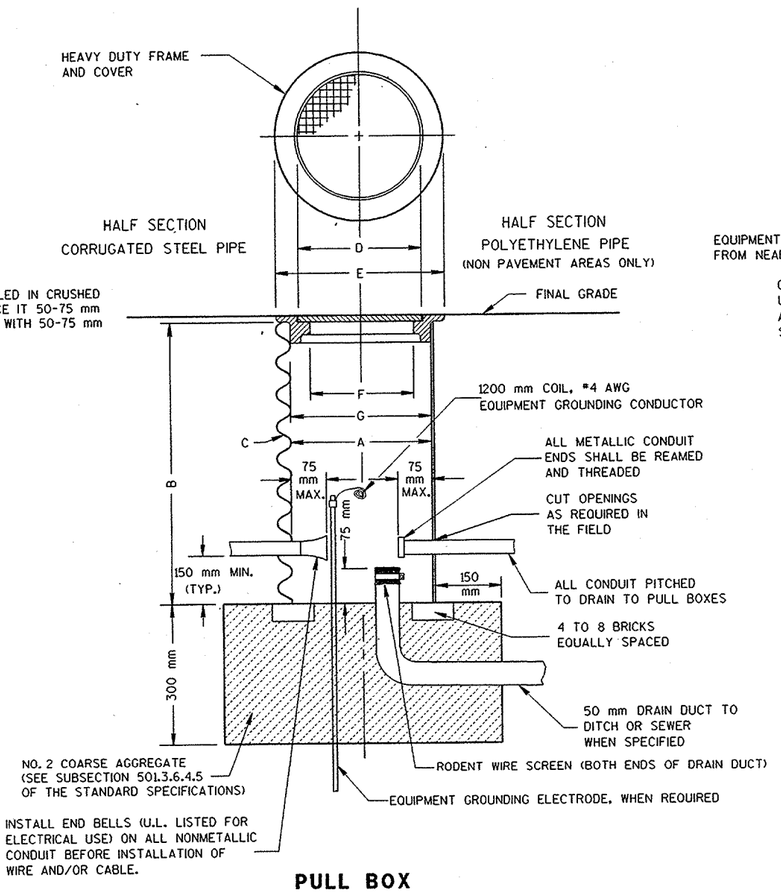
ILLUSTRATION OF WIRE/CABLE PLACEMENT IN PULLBOX



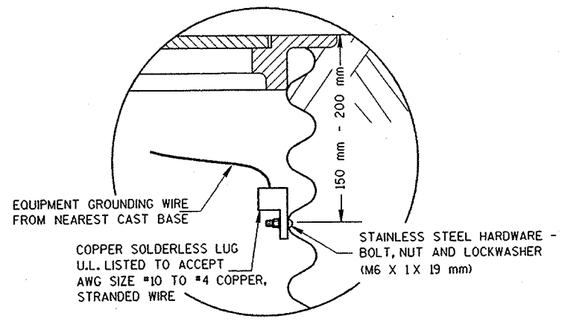
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 50-75 mm BELOW GRADE AND COVER IT WITH 50-75 mm OF CRUSHED AGGREGATE



PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

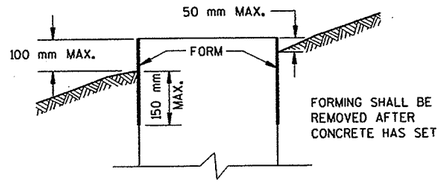
APPROVED 3/21/97 DATE
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

M

S.D.D. 9 B 4-3

ORIGINATOR:
S.D.D. 9 B 4-3
LEVELS ON • 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
REV. DATE:
PLOT NAME:
PLOT SCALE:
FILE NAME:

FORM DEPTH SHALL BE
NO MORE THAN 150 mm BELOW
GRADE ON THE LOWER
SIDE OF BASE

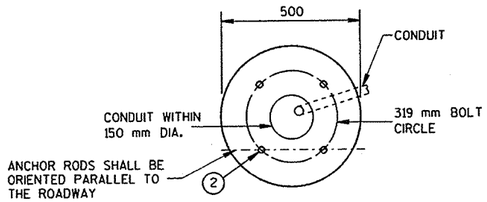


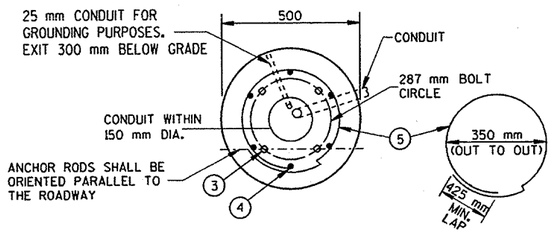
FORMING DETAIL

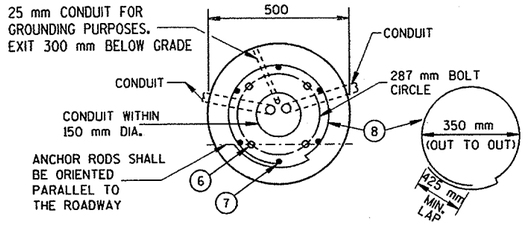
QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC METERS OF CONCRETE	.306	.44	.306
kg OF HOOP BAR STEEL	NONE	10.4	7.26
kg OF VERTICAL BAR STEEL	NONE	27.2	8.16

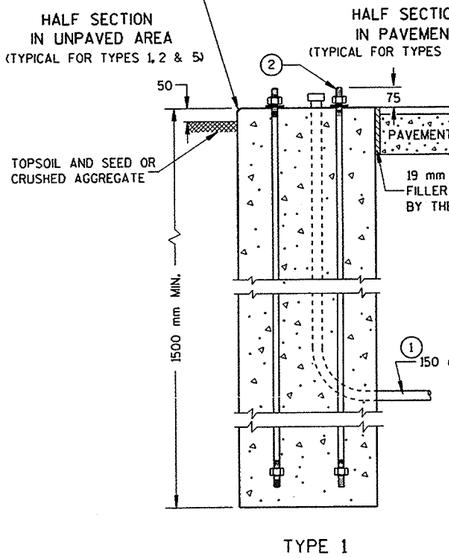
NOTE:

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

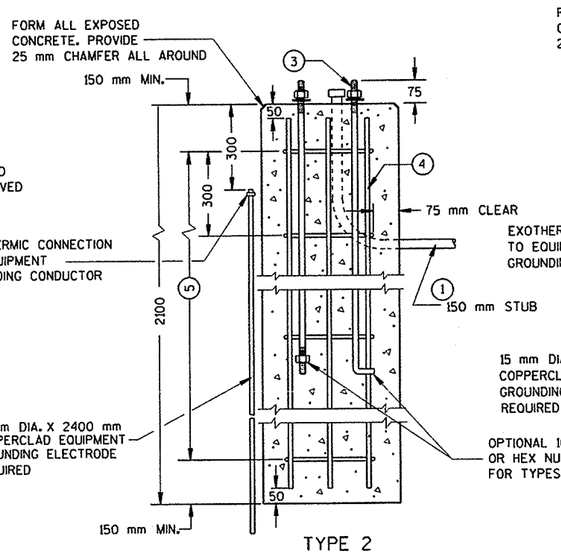




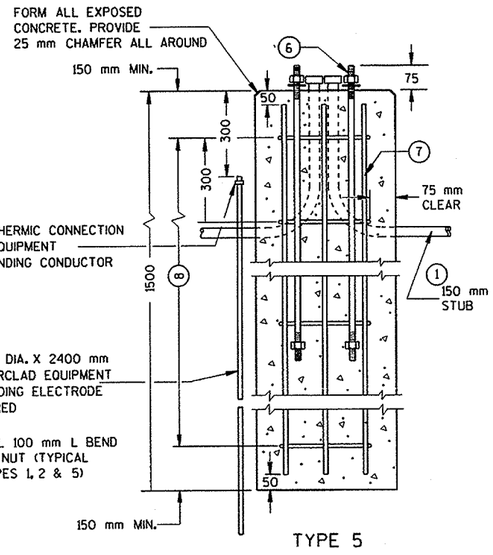




TYPE 1



TYPE 2



TYPE 5

CONCRETE BASES

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 150 mm EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 25 mm. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 300 mm OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 25 mm CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 1200 mm COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 300 mm IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 100 mm "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATION (LATEST EDITION).

METRIC ANCHOR ROD SIZES SHOWN ARE SOFT CONVERTED ENGLISH SIZES.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 600 mm. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 450 mm. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 900 mm EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 25.4 mm DIA. X 1050 mm ANCHOR RODS.

(3) (4) 25.4 mm DIA. X 1500 mm ANCHOR RODS.

(4) (6) NO 19 X 2000 mm BAR STEEL REINFORCEMENT.

(5) (7) NO 13 X 1525 mm BAR STEEL REINFORCEMENT @ 300 mm C-C.

(6) (4) 25.4 mm DIA. X 1050 mm ANCHOR RODS.

(7) (6) NO 13 X 1400 mm BAR STEEL REINFORCEMENT

(8) (5) NO 13 X 1525 mm BAR STEEL REINFORCEMENT @ 300 mm C-C.

CONCRETE BASES,
TYPES 1, 2 & 5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/11/96
DATE
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA
M

S.D.D. 9 C 2-2

LEVELS ON • 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

S.D.D. 9 C 2-2

FILE NAME:

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

FOUR (4) BOLTS (25.4 mm X 3.00 X 100 mm) TO BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 25.4 mm DIAMETER, 100 mm IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (634 MPa YIELD) HEAVY HEX NUT, AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) AL/CU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

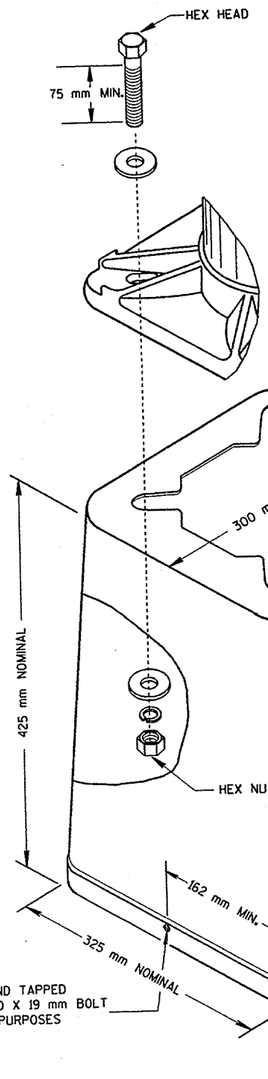
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING AN M6 X 1.00 X 19 mm STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

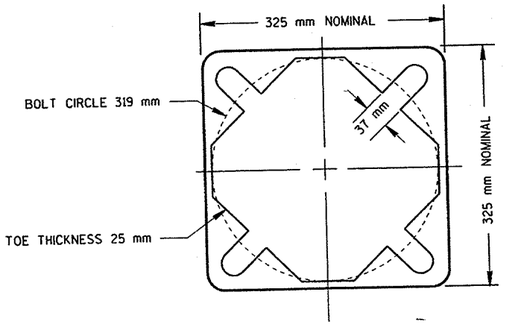
PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 37 mm, THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

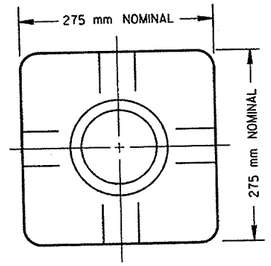
THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.



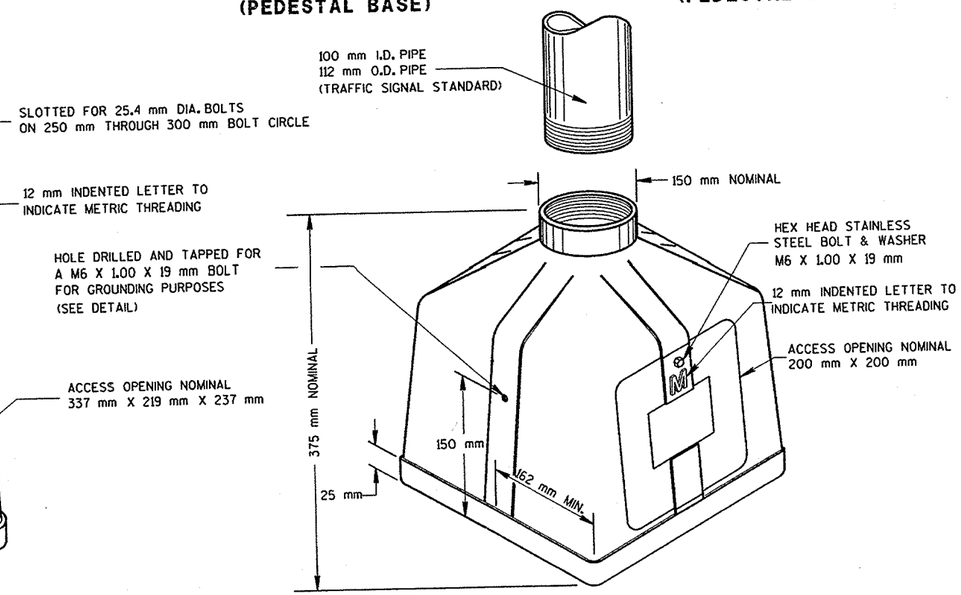
ISOMETRIC VIEW



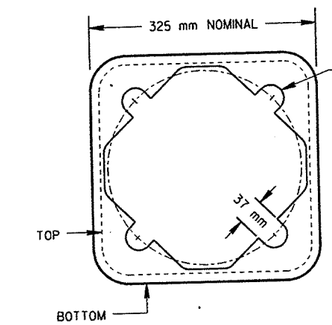
BOTTOM VIEW
(PEDESTAL BASE)



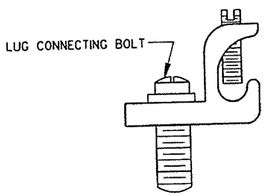
TOP VIEW
(PEDESTAL BASE)



ISOMETRIC VIEW
PEDESTAL BASE



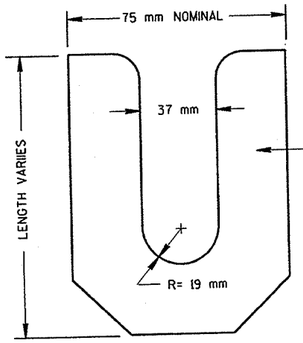
BOTTOM VIEW
(TRANSFORMER BASE)



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 10/21/96 DATE
FHWA

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

M

S.D.D. 9 C 3-2

S.D.D. 9 C 3-2

LEVELS ON • 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

PLOT SCALE:

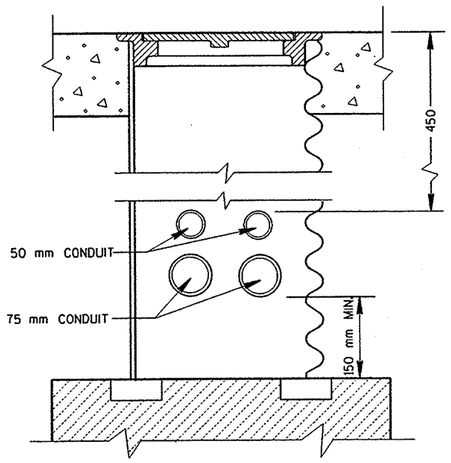
PLOT NAME:

REV. DATE:

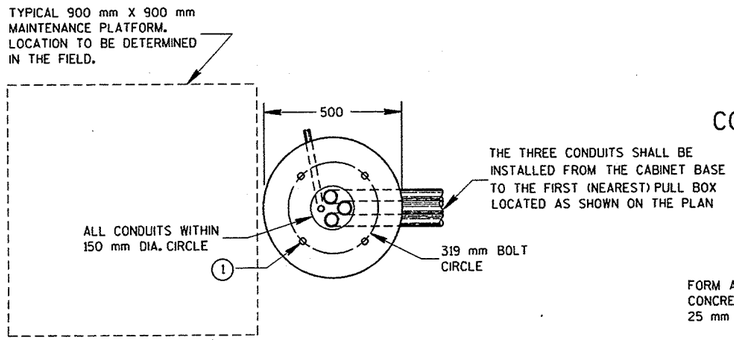
ORIGINATOR:

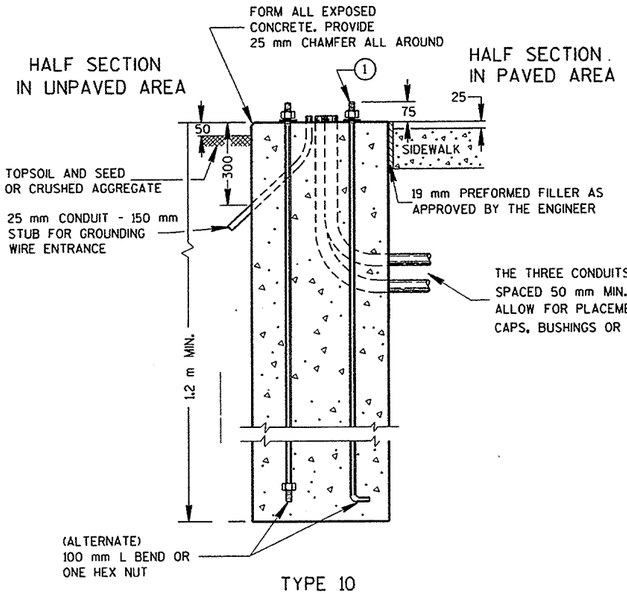
FILE NAME:

CONTROL CABINET BASE TYPE	DIMENSIONS mm				m^3 CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 750 mm CABINET	850	1500	250	425	.49
TYPE 7 - 950 mm CABINET	1050	1500	250	525	.71
TYPE 8 - 950 mm CABINET	1050	1800	300	525	.99
TYPE 9 - VARIABLE	1350	1800	350	675	1.19
TYPE 10 - POST MOUNT	AS SHOWN				.24

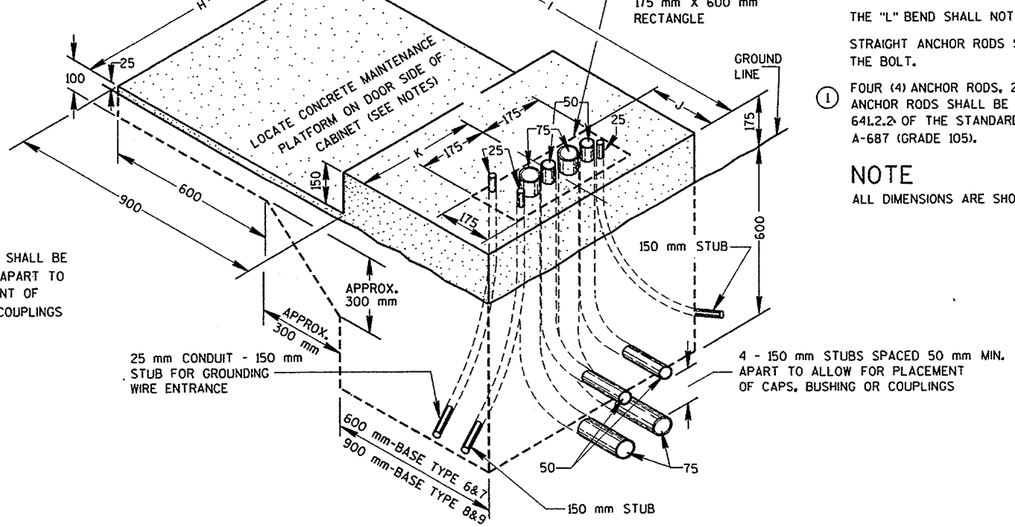


CONDUIT LOCATIONS IN 600 mm X 900 mm PULL BOX
(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)





TYPE 10



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

CONCRETE CONTROL CABINET BASES

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

INSTALL FOUR 12 mm MINIMUM DIAMETER X 100 mm MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR RODS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 25 mm.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 600 mm MINIMUM AND 900 mm MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 450 mm MINIMUM AND 900 mm MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 900 mm SQUARE 100 mm THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 25 mm SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (50 mm AND 75 mm) CONDUITS SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST) PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 150 mm MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 100 mm L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 300 mm IN LENGTH ON EACH END OF THE BOLT.

(1) FOUR (4) ANCHOR RODS, 25 mm DIA. X 1050 mm. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH A-449, OR ASTM. A-687 (GRADE 105).

NOTE

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 10/21/96 /DATE
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

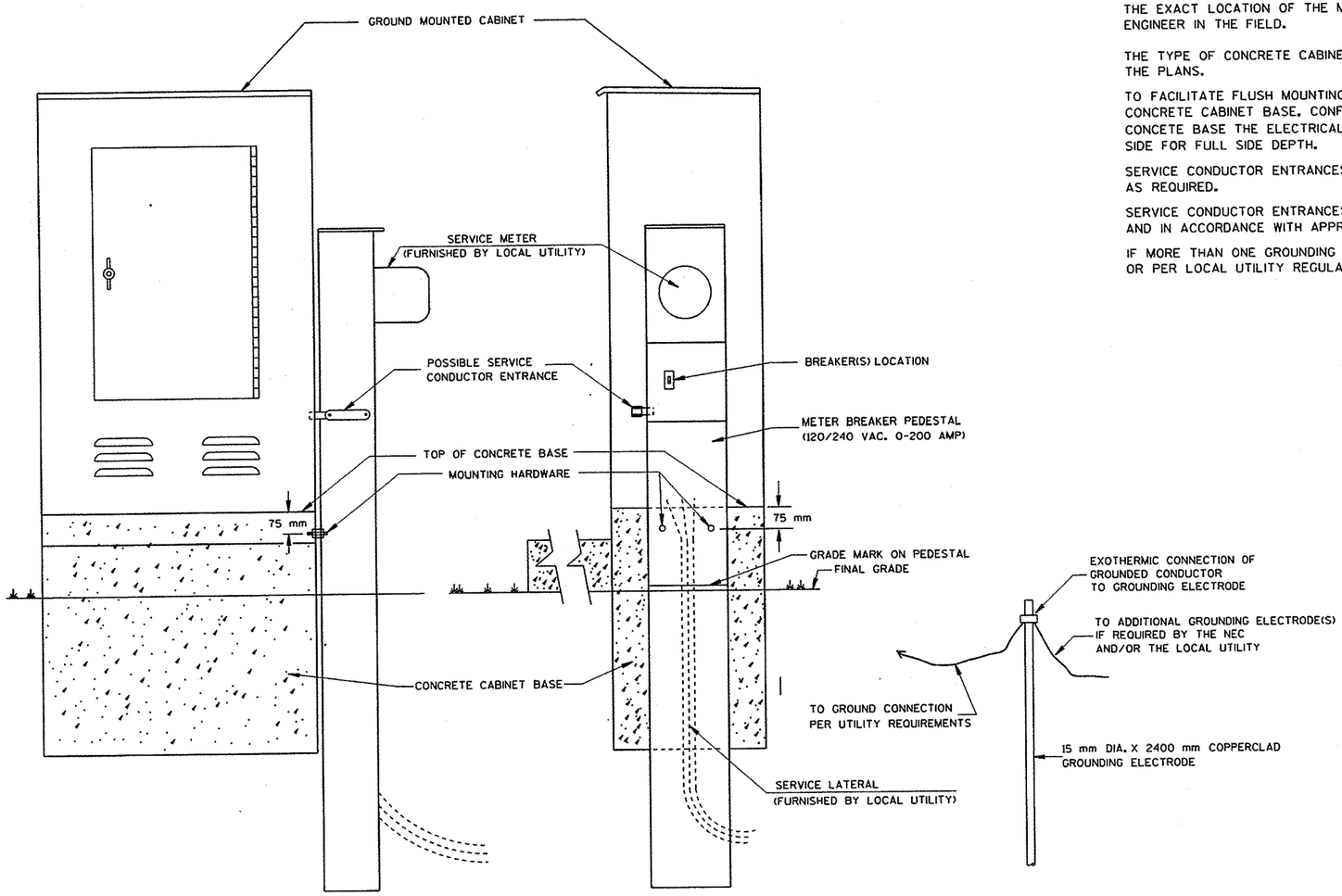
M

S.D.D. 9 C 5-2

LEVELS ON • 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:

S.D.D. 9 C 5-2



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25mm (NOMINAL) PER INCH.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CONCRETE CABINET BASE, CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 1800 mm OR PER LOCAL UTILITY REGULATIONS.

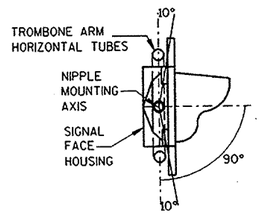
CABINET SERVICE INSTALLATION
(METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/21/94
DATE
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA
M

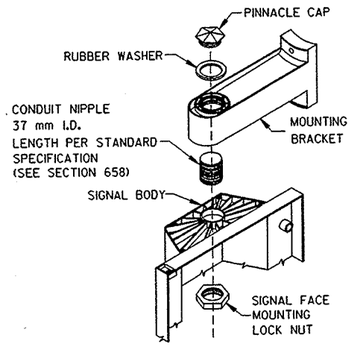
S.D.D. 9 D 1-2

PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR:
LEVELS ON • 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
S.D.D. 9 D 1-2
FILE NAME:



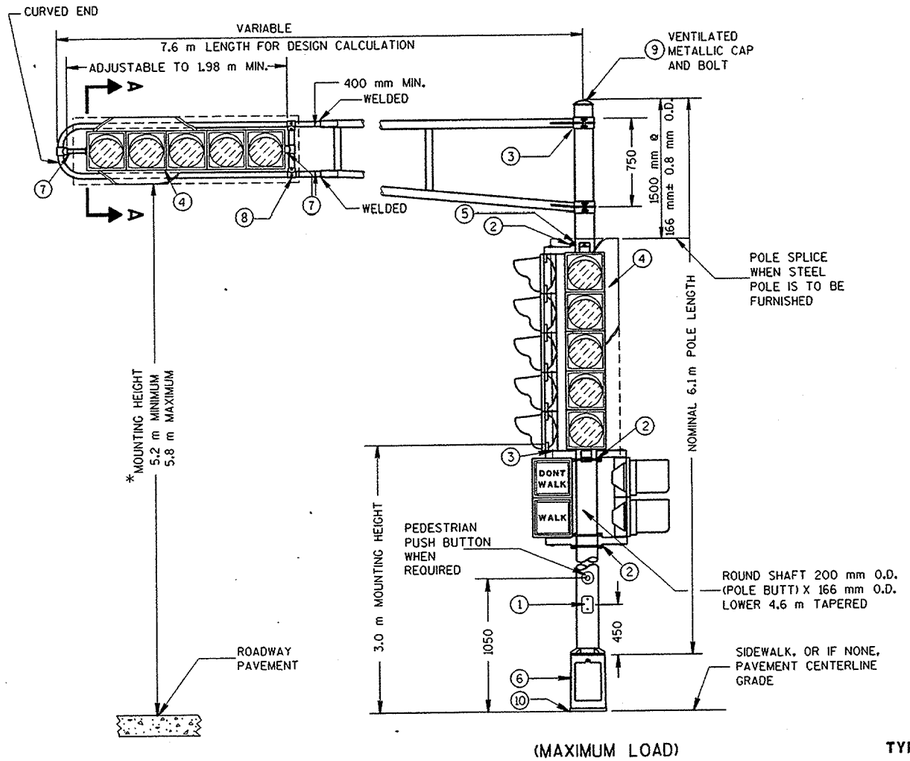
SECTION A-A

(10 DEGREES TILT REQUIREMENT OF FACE(S) IN THE TROMBONE MOUNTING)

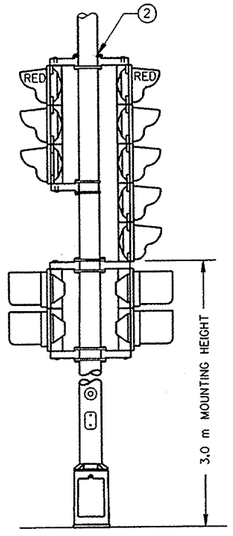


SIGNAL FACE MOUNTING DETAIL

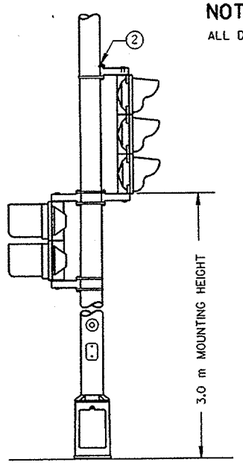
(BANDED)



(MAXIMUM LOAD)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

TYPE 2 POLE MOUNTING CONFIGURATION

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

POLES SHALL BE EITHER ALUMINUM OR GALVANIZED STEEL AS CALLED FOR IN THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE/ROPE IN ACCORDANCE WITH STANDARD SPECIFICATION 652 SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

TYPE 2 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

1. 100 mm X 150 mm REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) M6 X 1.00 X 19 mm HEX HEAD STAINLESS STEEL BOLTS.
2. SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658)
3. GROMMETS, 25 mm CHASE NIPPLES OR 25 mm CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 34 mm HOLE IN POLE SHAFT FOR WIRING.
4. BACKBOARDS ARE REQUIRED AT ALL TIMES ON TROMBONE MAST ARM MOUNTED SIGNAL FACES. VERTICAL MOUNTED SIGNAL FACES WITH BACKBOARDS REQUIRED ARE LOCATED AS SHOWN ON THE PLANS. BACKBOARDS ARE REQUIRED TO SURROUND SIGNAL FACES. BACKBOARDS SHALL EXTEND 125 mm BEYOND EXTREMITIES OF THE SIGNAL FACE.
5. POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACES.
6. CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
7. MOUNTING BRACKET NIPPLES FOR THE SIGNAL FACE(S) SHALL BE 50 mm IN LENGTH AND 37 mm IN DIAMETER. (SEE STANDARD SPECIFICATION - SECTION 658).
8. VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (M6 X 1.00 X 19 mm STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.
9. FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) M6 X 1.00 X 19 mm STAINLESS STEEL, HEX HEAD BOLT.
10. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

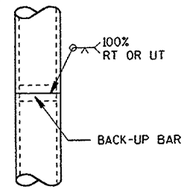
*MOUNTING HEIGHT LIMITATION DIMENSIONS OF THE TROMBONE MAST ARM WILL BE DEPENDENT UPON THE USE/NON-USE OF A TRANSFORMER BASE.

NOTE:

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.

FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN/BRIDGE FOR VERIFICATION AND APPROVAL.

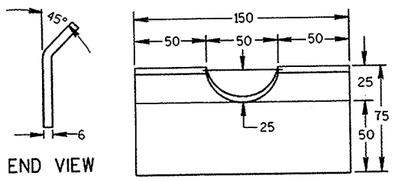


POLE SPLICE DETAIL

POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION M

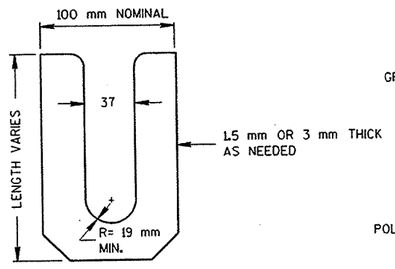
S.D.D. 9 E 1-3a



FRONT VIEW

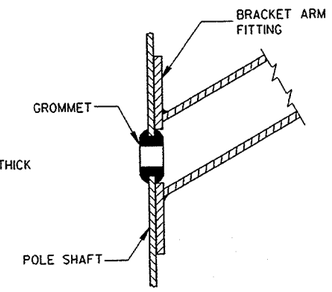
RECTANGULAR CLAMP SHIM

(4 TO A SET)

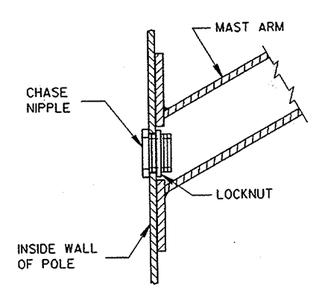


LEVELING SHIM (15)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (12 mm NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

(10.) 112 mm I.D. FOR LUMINAIRE MAST ARM CLAMP.
165 mm I.D. FOR TROMBONE MAST ARM CLAMP.

(11.) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

(12.) BASE PLATE SLOTTED TO ACCEPT 275 mm THROUGH 300 mm BOLT CIRCLE USING 25 mm DIAMETER ANCHOR RODS.

(13.) OUTSIDE SHIM DIAMETER - (112 mm O.D. FOR LUMINAIRE MAST ARM)
(165 mm O.D. FOR TROMBONE MAST ARM)

(14.) VARIABLE SHIM THICKNESS - (2.5, 6, 9, 13.5, or 18 mm)

SHIM THICKNESS FOR TROMBONE MAST ARMS MAY BE TYPICALLY 6, 9, 13.5 or 18 mm.

SHIM THICKNESS FOR LUMINAIRE MAST ARMS MAY BE TYPICALLY 2.5, 6 or 9 mm.

SHIM MATERIAL SHALL BE ALUMINUM ALLOY.

SHIM THICKNESS SHALL BE IMPRESSED INTO EACH SHIM. NUMERALS SHALL BE 6 mm HIGH AND LEGIBLE.

THE CONTRACTOR SHALL SUBMIT TWO COPIES OF ALL SHIM SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.

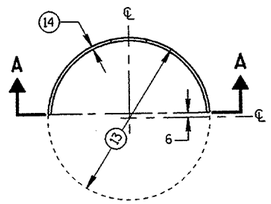
(15.) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

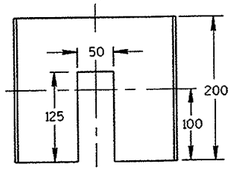
NOTE:

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.



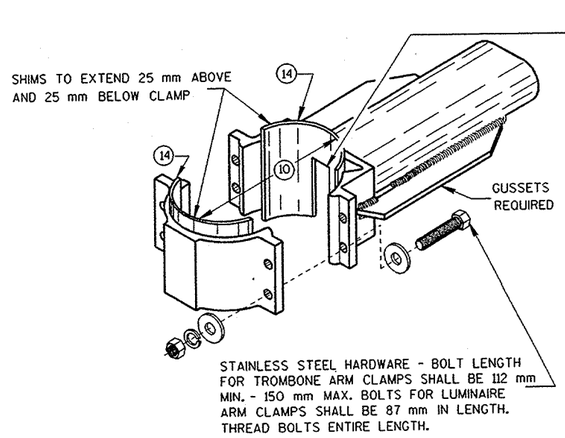
PLAN VIEW



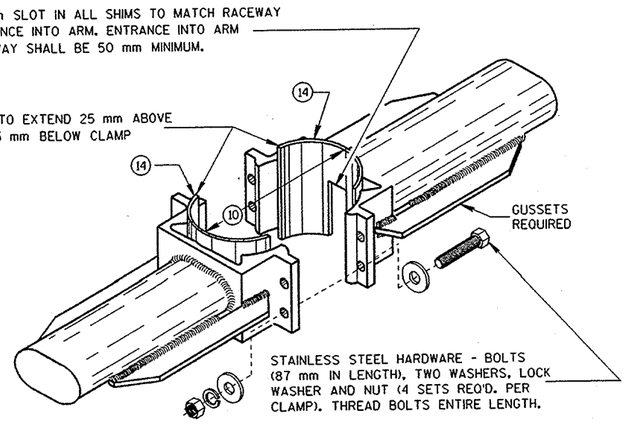
SECTION A-A

CIRCULAR CLAMP SHIM

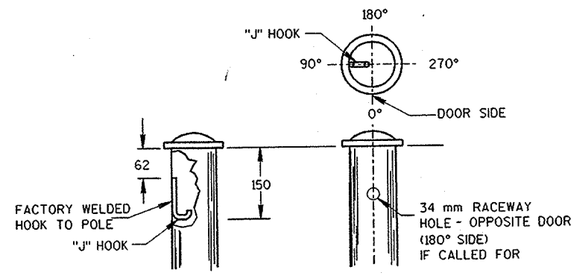
(2 TO A SET)



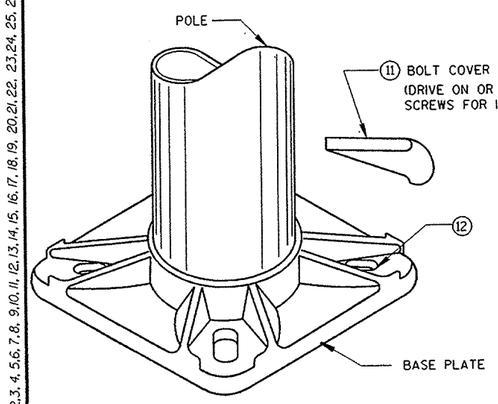
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



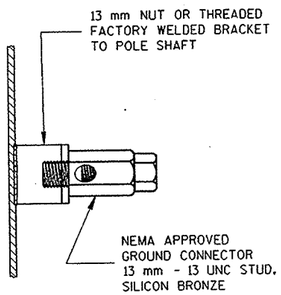
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

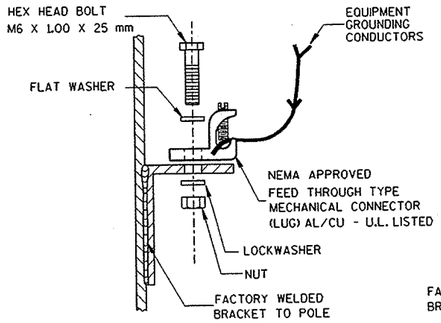


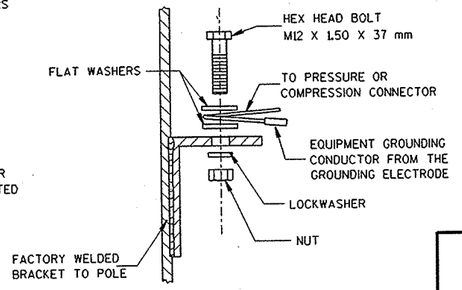
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

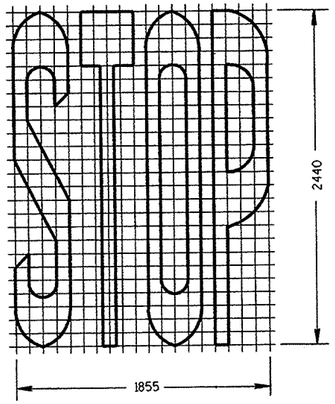
APPROVED 2/24/97 DATE
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

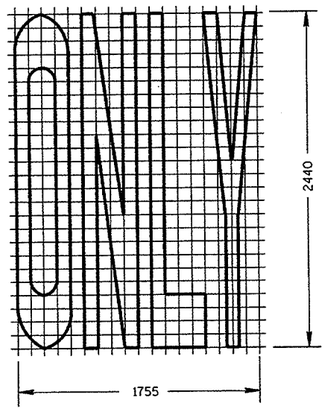
M

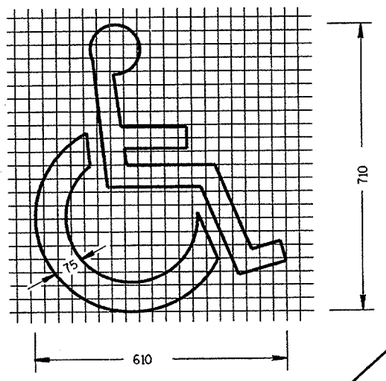
S.D.D. 9 E 1-3f

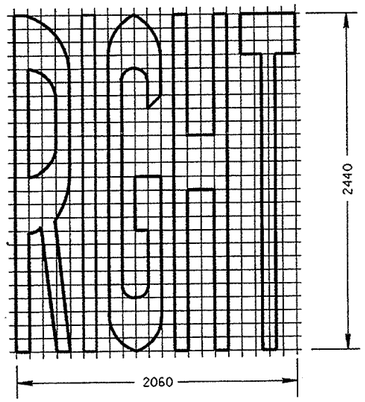
S.D.D. 9 E 1-3f

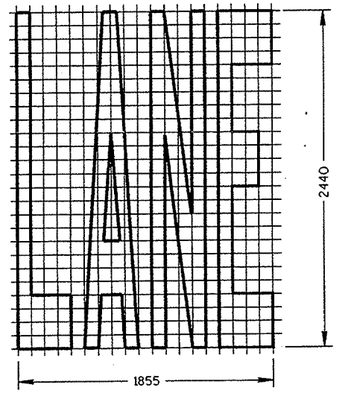
FILE NAME:

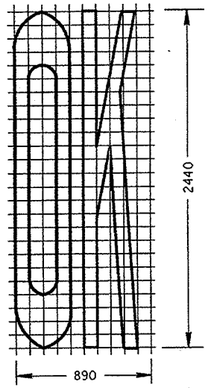


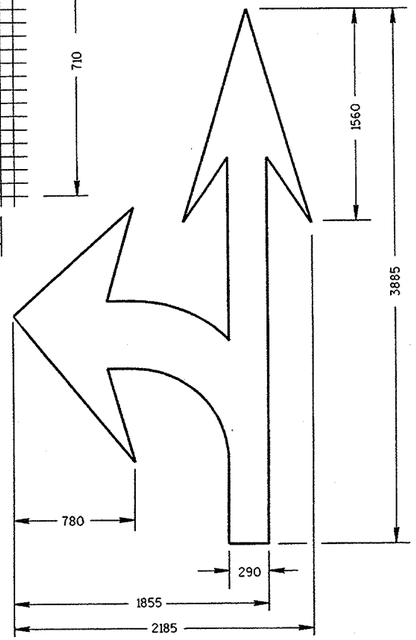




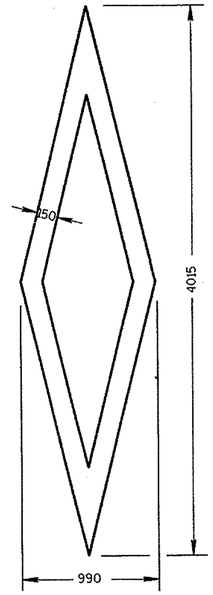




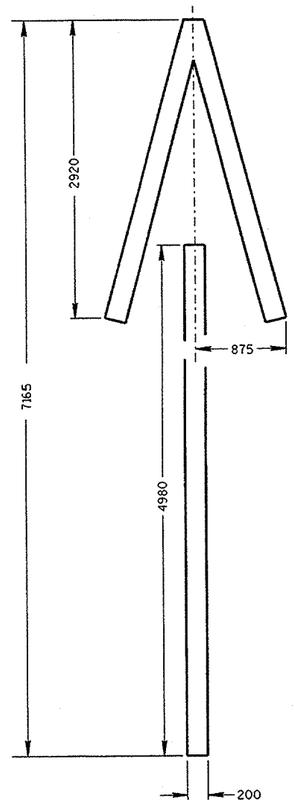




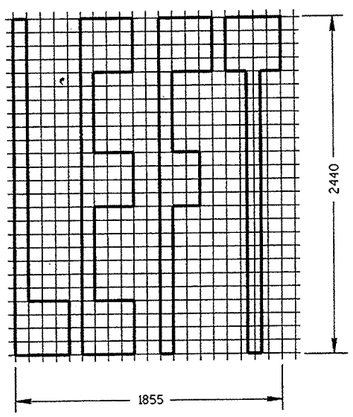
TYPE 3

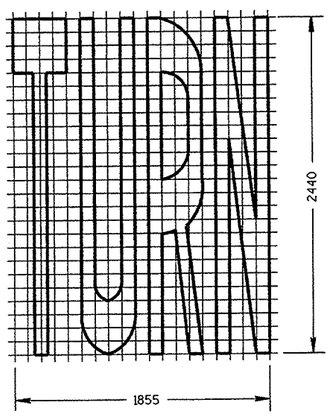


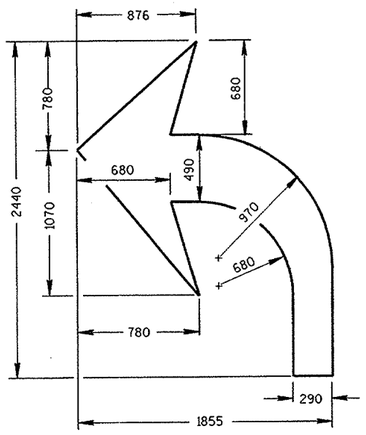
PREFERENTIAL
LANE SYMBOL



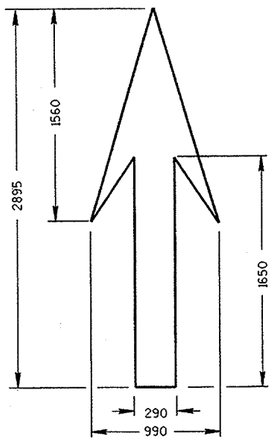
TYPE 4







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.

NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

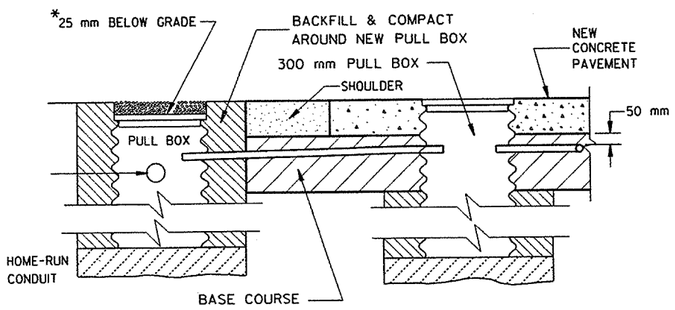
APPROVED
4-15-97
DATE

Chester J. Spang
for DIRECTOR, OFFICE OF TRAFFIC

FHWA

M

S.D.D. 15 C 7-6a



SECTION A-A

NO CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAILS

*RECESS PULL BOX SO THAT THE COVER IS 75 mm BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

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

METRIC MEASUREMENTS ARE BASED ON 25 mm (NOMINAL) PER INCH.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

THE GROUND RESISTANCE READING OF THE LOOP SHALL READ "INFININTY" TO GROUND ON AN OHMMETER USING A MULTIPLIER SCALE OF 1 MEGOHM AND AN INPUT RESISTANCE OF 11 MEGOHMS MINIMUM BEFORE SPLICING THE LOOP TO THE LEAD-IN CABLE.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

ANTI-SIEZE LUBRICATING MATERIAL SHALL BE USED ON ALL THREADS OF THREADED ASSEMBLIES BEFORE INSTALLATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

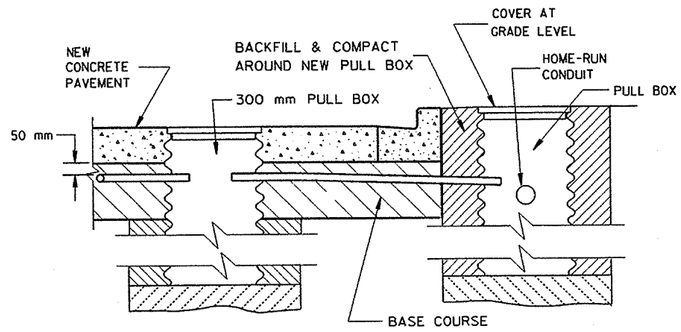
THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER 300 mm BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT, CONDULET AND PULL BOX SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE NEW CONCRETE PAVEMENT IS PLACED.

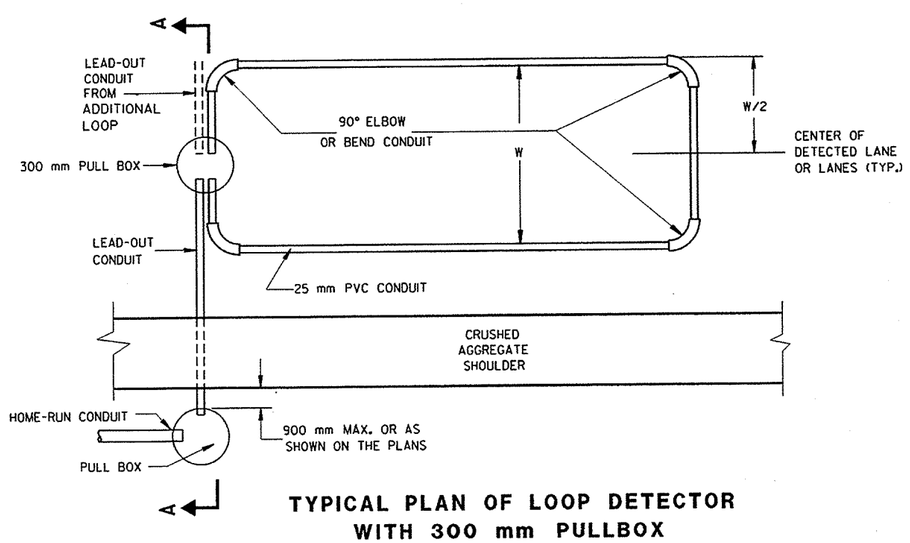
300 mm PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.



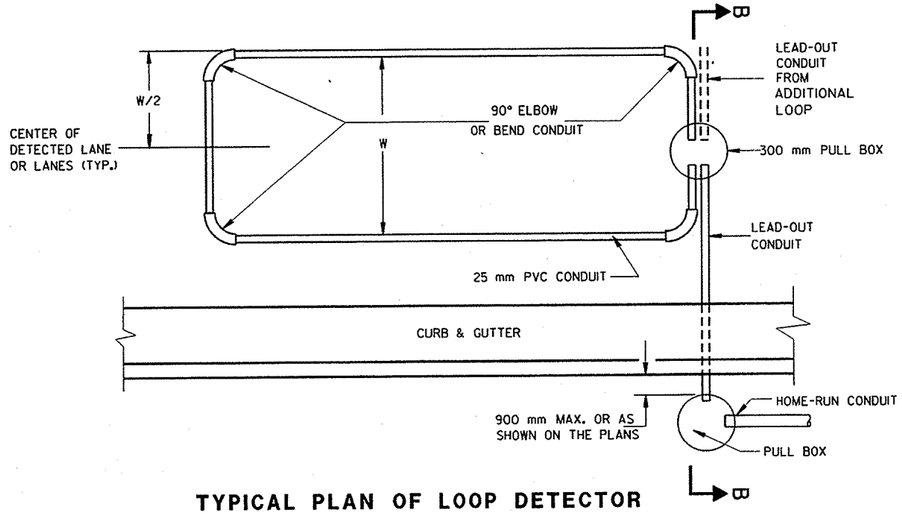
SECTION A-A

CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAILS



TYPICAL PLAN OF LOOP DETECTOR WITH 300 mm PULLBOX



TYPICAL PLAN OF LOOP DETECTOR WITH 300 mm PULLBOX

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/21/94 DATE
FHWA
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
M

S.D.D. 9 F 9-2

S.D.D. 9 F 9-2

PLOT SCALE:

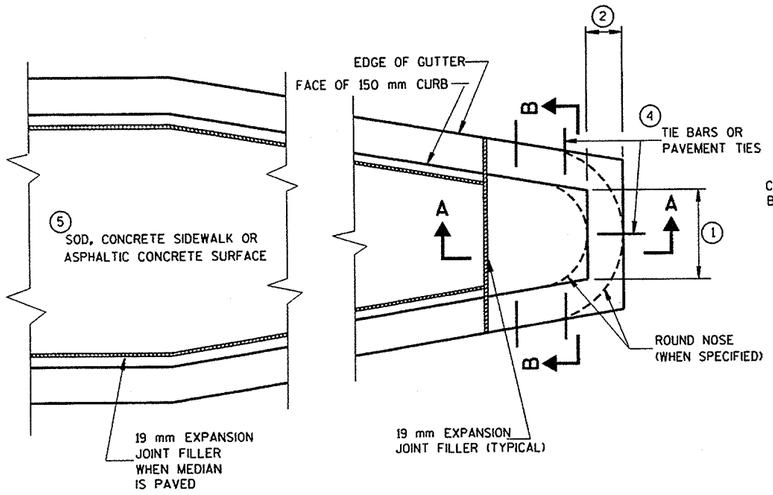
PLOT NAME:

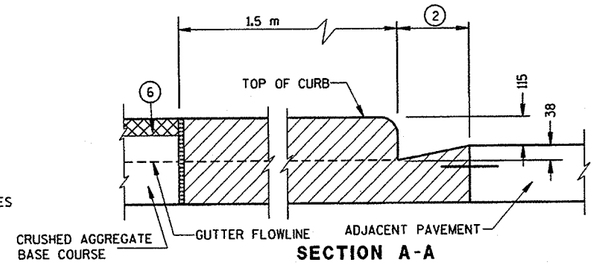
REV. DATE:

LEVELS ON • 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

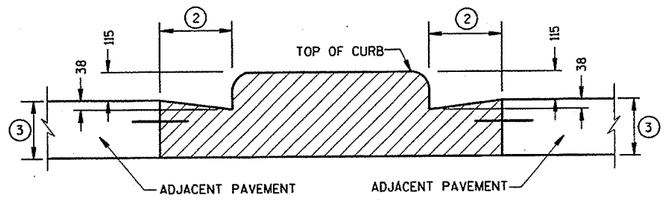
ORIGINATOR:

FILE NAME:





SECTION A-A



SECTION B-B

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.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 13 X 600 mm SPACED AT 600 mm C-C.

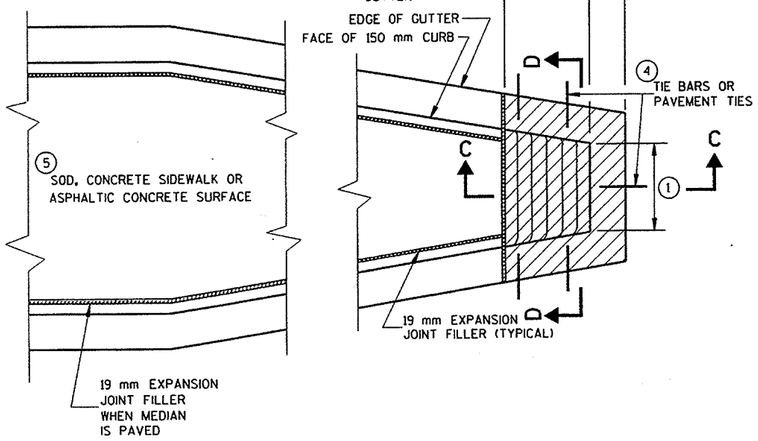
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 19 X 300 mm SPACED AT 900 mm C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

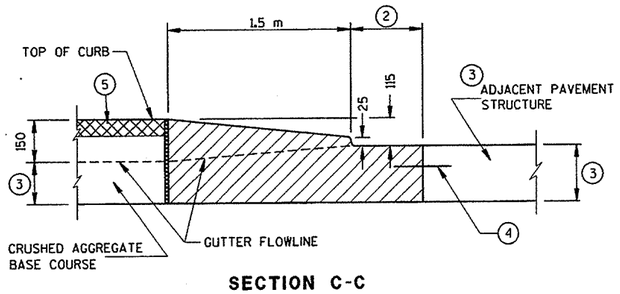
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

NOTE

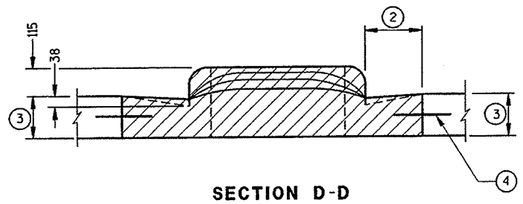
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

CONCRETE MEDIAN BLUNT NOSE DETAIL





SECTION C-C



SECTION D-D

CONCRETE MEDIAN SLOPED NOSE DETAIL

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/30/96
DATE

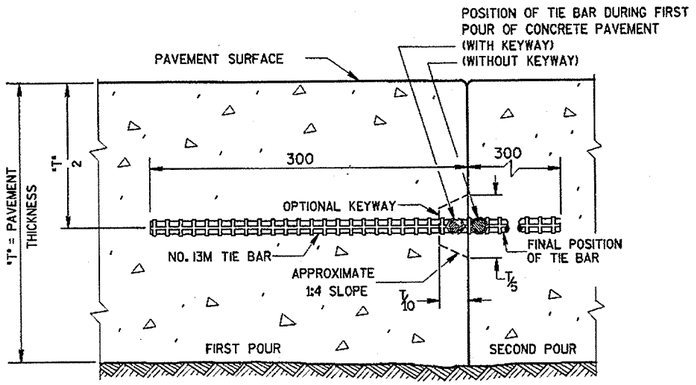
Roy L. Thimmesch
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

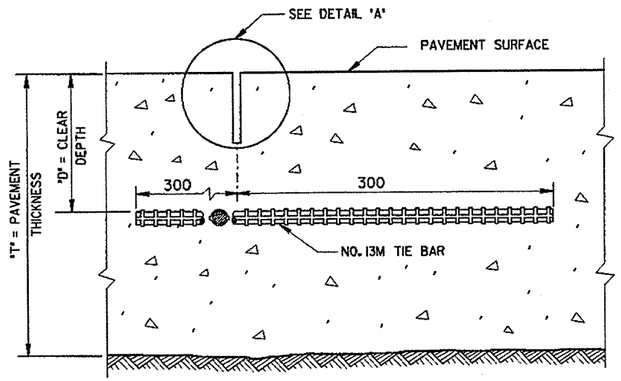
M

S.D.D. 11 B 2-1

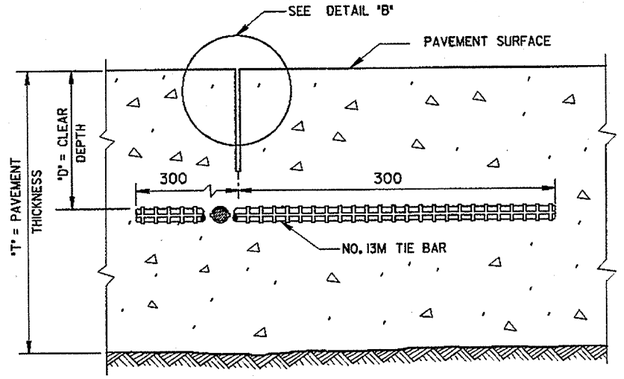
S.D.D. 11 B 2-1



CONSTRUCTION JOINT



SAWED JOINT



RIBBON JOINT

GENERAL NOTES

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

DETAILS "A" AND "B" ARE EQUAL ALTERNATES UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.

LONGITUDINAL JOINTS SHALL NOT BE SEALED OR FILLED.

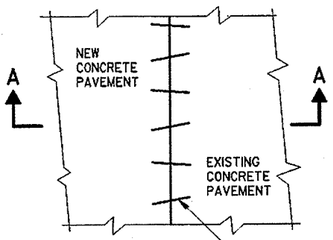
TIE BAR SPACINGS ARE VALID ONLY FOR PAVEMENT WIDTHS IN THE TABLE. FOR WIDER PAVEMENTS, TIED CONCRETE SHOULDERS OR RAMPS, THE TIE BAR SPACING SHALL BE AS SHOWN ON THE PLANS.

NOTE

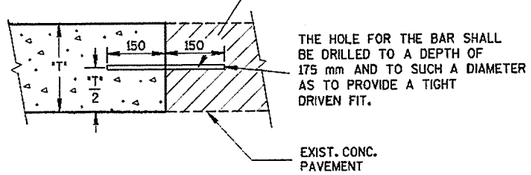
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

DETAIL "A"

DETAIL "B"

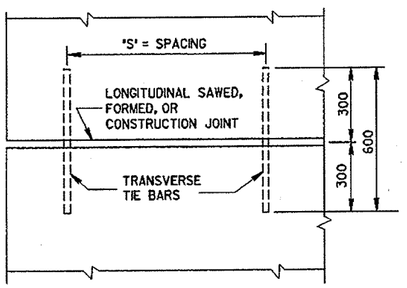


PLAN VIEW



SECTION A-A
PAVEMENT TIES

PAVEMENT THICKNESS "T" (mm)	CLEAR DEPTH "D" (mm)	SAW CUT GROOVE "G" (mm)	MAXIMUM TIE BAR SPACING "S" (mm)		PARTING STRIP WIDTH "W" (mm)
			PAVEMENT WIDTH (m)		
			7.2 OR 7.8	9.0	
150,165	75 ± 13	50	1 000	900	50
175,190	85 ± 25	55	850	800	55
200,215	95 ± 25	65	750	700	65
225,240	110 ± 25	75	650	600	75
250,265	120 ± 25	85	600	550	85
275,290	135 ± 25	95	550	500	95
300	145 ± 25	100	500	450	100



PLAN VIEW
SHOWING LOCATION OF TIE BARS

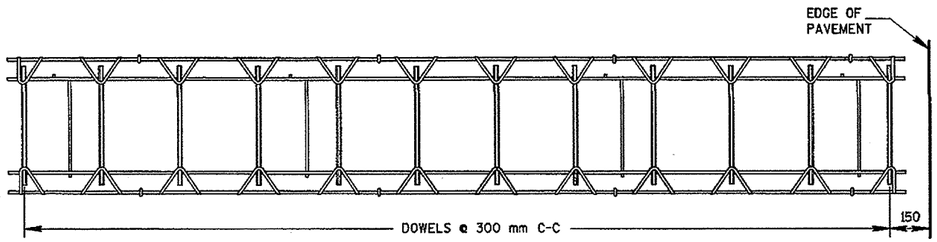
CONCRETE PAVEMENT
LONGITUDINAL JOINTS
AND PAVEMENT TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

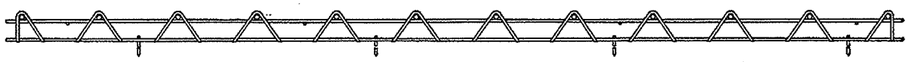
APPROVED
9-24-98
DATE
CHIEF PAVEMENTS & RESEARCH ENGINEER
FHWA
M

S.D.D. 13 C 1-10

S.D.D. 13 C 1-10

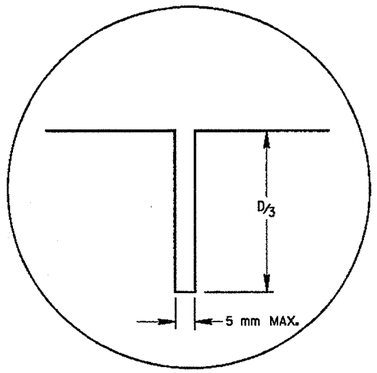


PLAN VIEW

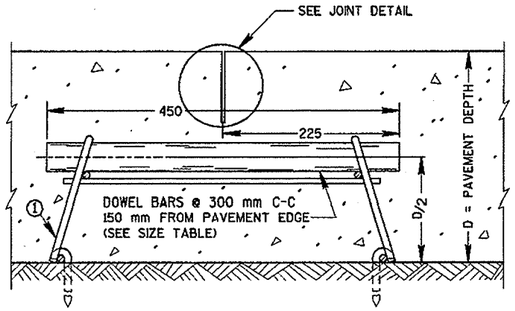


SIDE VIEW

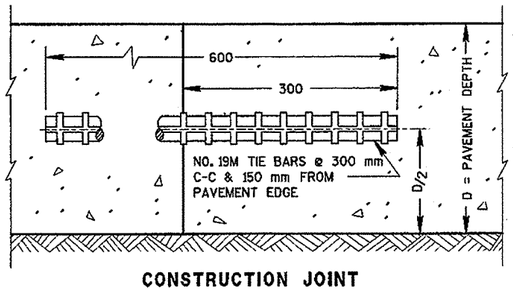
CONTRACTION JOINT DOWEL ASSEMBLY ①



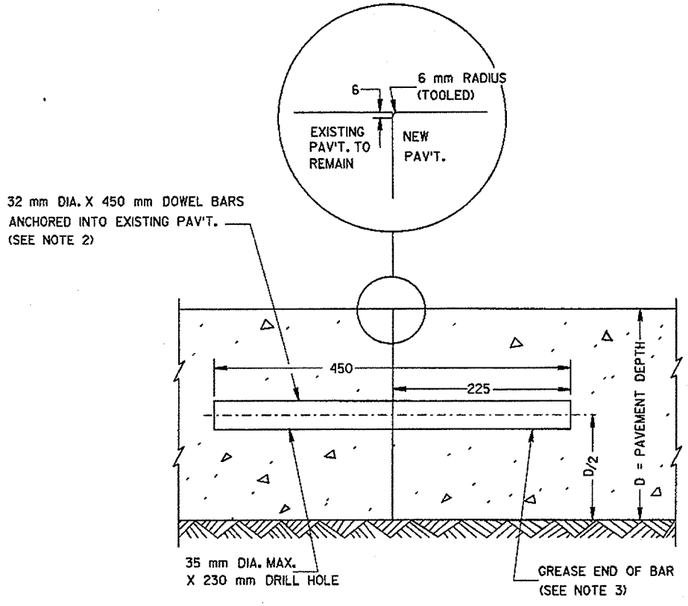
JOINT DETAIL



DOWELED CONTRACTION JOINT

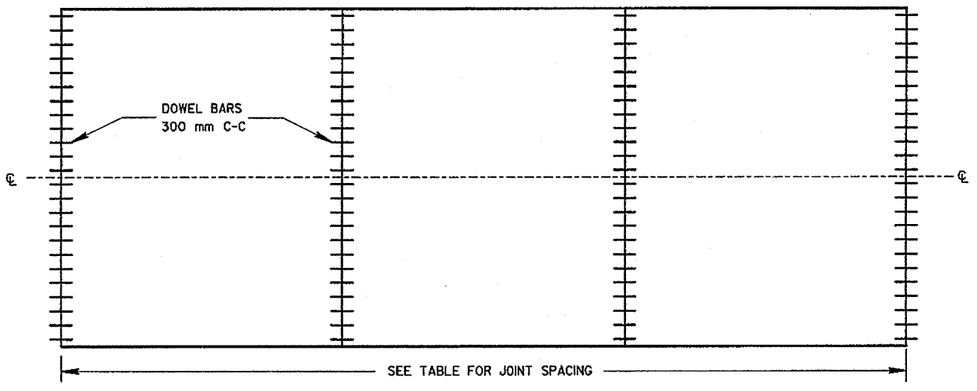


CONSTRUCTION JOINT



TRANSVERSE CONTRACTION JOINTS ABUTTING EXISTING PAVEMENT

④ DOWEL BAR DETAIL



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

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

CONTRACTION JOINTS

UNLESS OTHERWISE SPECIFIED, CONTRACTION JOINTS SHALL NORMAL TO THE CENTERLINE. THE LOCATION OF CONTRACTION JOINTS THRU INTERSECTIONS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

CONTRACTION JOINTS SHALL NOT BE SEALED OR FILLED.

DOWEL BARS SHALL BE INSTALLED PARALLEL TO THE PAVEMENT CENTERLINE AND SURFACE.

CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL BE A MINIMUM OF 1.2 m FROM THE NEAREST CONTRACTION JOINT AND ALIGNED EITHER PARALLEL TO CONTRACTION JOINTS OR AT 90° TO THE CENTERLINE.

TIE BARS MAY BE INSERTED THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN POURED.

① ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY MAY BE USED WHEN APPROVED BY THE ENGINEER. MECHANICAL DOWEL BAR IMPLANTERS MAY BE USED INSTEAD OF DOWEL ASSEMBLIES.

② DOWEL BARS SHALL BE ANCHORED INTO DRILL HOLES WITH AN APPROVED EPOXY GROUT.

③ THE FREE END OF DOWEL BARS SHALL RECEIVE A THIN UNIFORM COATING OF BOND BREAKING GREASE.

④ DOWEL BARS INSTALLED BY DRILLING SHALL BE SPACED 380 mm ON CENTER. THE GROUPING OF DOWEL BARS SHALL BE CENTERED INSIDE THE SLAB BASED ON ALL THE FOLLOWING SITUATIONS:

BETWEEN THE EDGES OF PAVEMENTS WITHOUT LONGITUDINAL JOINTS OR BETWEEN THE EDGE OF PAVEMENT AND NEAREST LONGITUDINAL JOINT OR BETWEEN TWO ADJACENT LONGITUDINAL JOINTS.

THE CLEAR DISTANCE FROM THE EDGE OF PAVEMENT OR LONGITUDINAL JOINT TO THE NEAR EDGE OF DOWEL BAR NEAREST THAT EDGE OR JOINT SHALL BE A MINIMUM OF 150 mm AND A MAXIMUM OF 355 mm.

NOTE

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE SHOWN.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
150,165 mm	32 mm	3.6 m
175,190 mm	32 mm	4.3 m
200,215 mm	32 mm	4.5 m
225,240 mm	32 mm	4.5 m
250 mm & ABOVE	38 mm	5.5 m

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-24-98
DATE

CHIEF PAVEMENTS & RESEARCH ENGINEER

FHWA

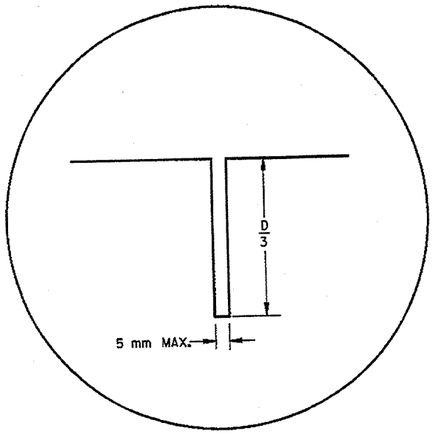
M

S.D.D. 13 C 13-3

LEVELS ON • 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

S.D.D. 13 C 13-3

FILE NAME:



JOINT DETAIL

PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
150,165 mm	3.6 m
175,190 mm	4.3 m
200,215 mm	4.5 m
225,240 mm	4.5 m
250 mm & ABOVE	5.5 m

GENERAL NOTES

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

CONTRACTION JOINTS

THE LOCATION AND ORIENTATION OF CONTRACTION JOINTS THRU INTERSECTIONS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

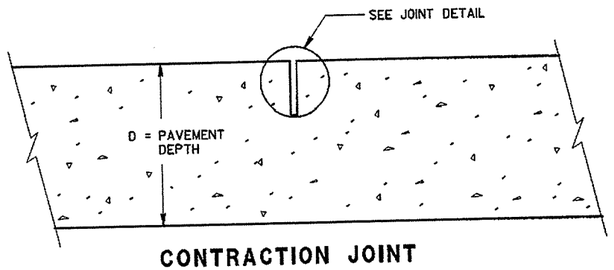
CONTRACTION JOINTS SHALL NOT BE SEALED OR FILLED.

CONSTRUCTION JOINTS

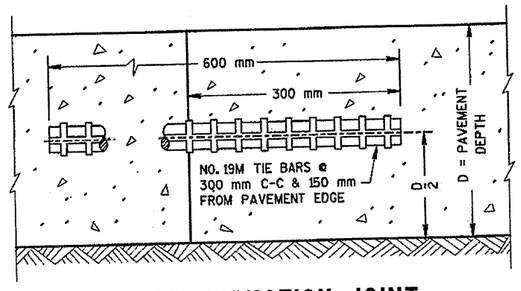
CONSTRUCTION JOINTS SHALL BE LOCATED A MINIMUM OF 1.2 m FROM THE NEAREST CONTRACTION JOINT AND ALIGNED EITHER PARALLEL TO THE CONTRACTION JOINTS OR AT 90° TO THE CENTERLINE.

TIE BARS MAY BE INSERTED THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN POURED.

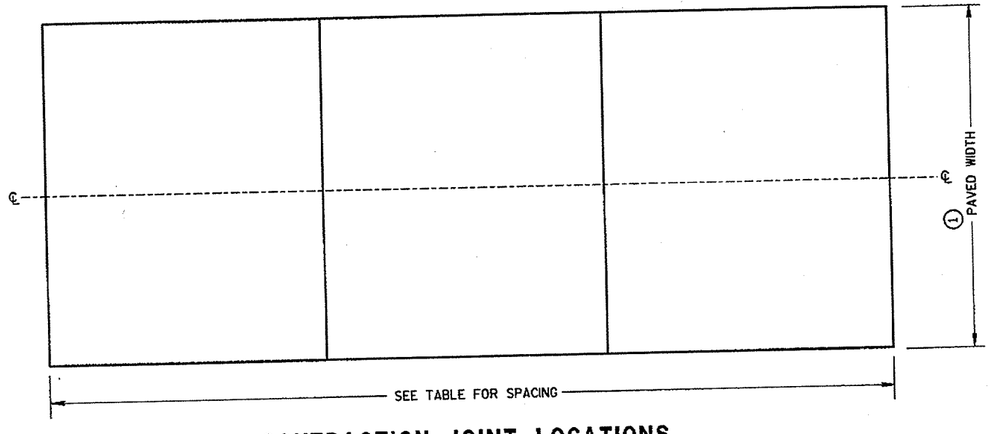
(1) REFER TO TYPICAL CROSS SECTIONS FOR PAVED WIDTH AND LOCATION OF LONGITUDINAL JOINTS.



CONTRACTION JOINT



CONSTRUCTION JOINT



CONTRACTION JOINT LOCATIONS

URBAN
NON-DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

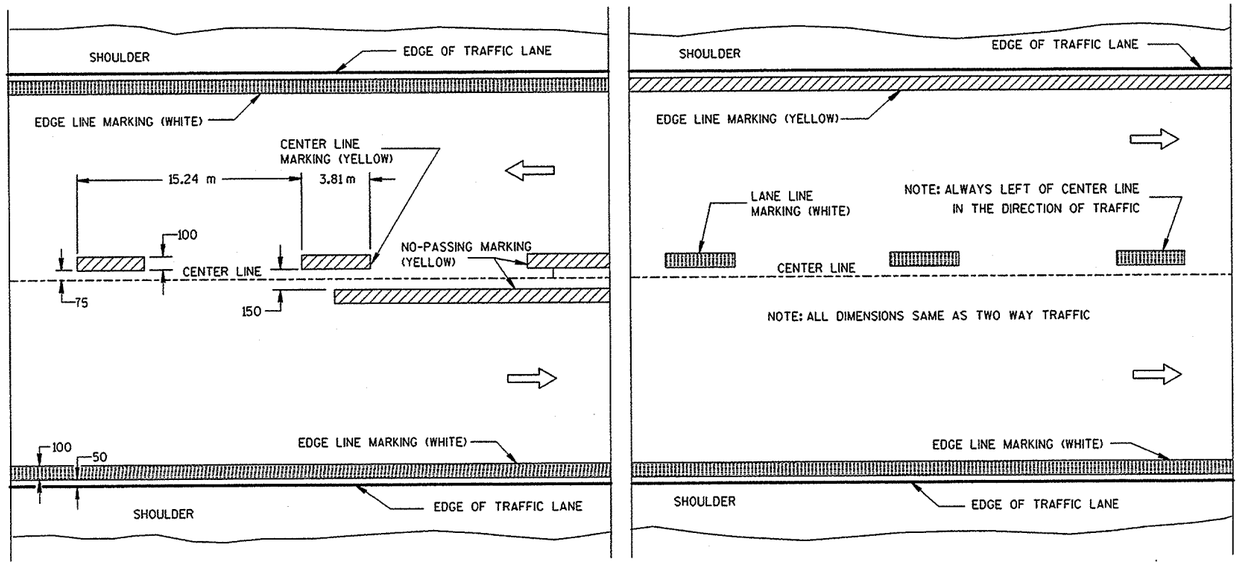
APPROVED
9-24-98
DATE
CHIEF PAVEMENTS & RESEARCH ENGINEER
FHWA
M

S.D.D. 13 C 4-12

S.D.D. 13 C 4-12

LEVELS ON - 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

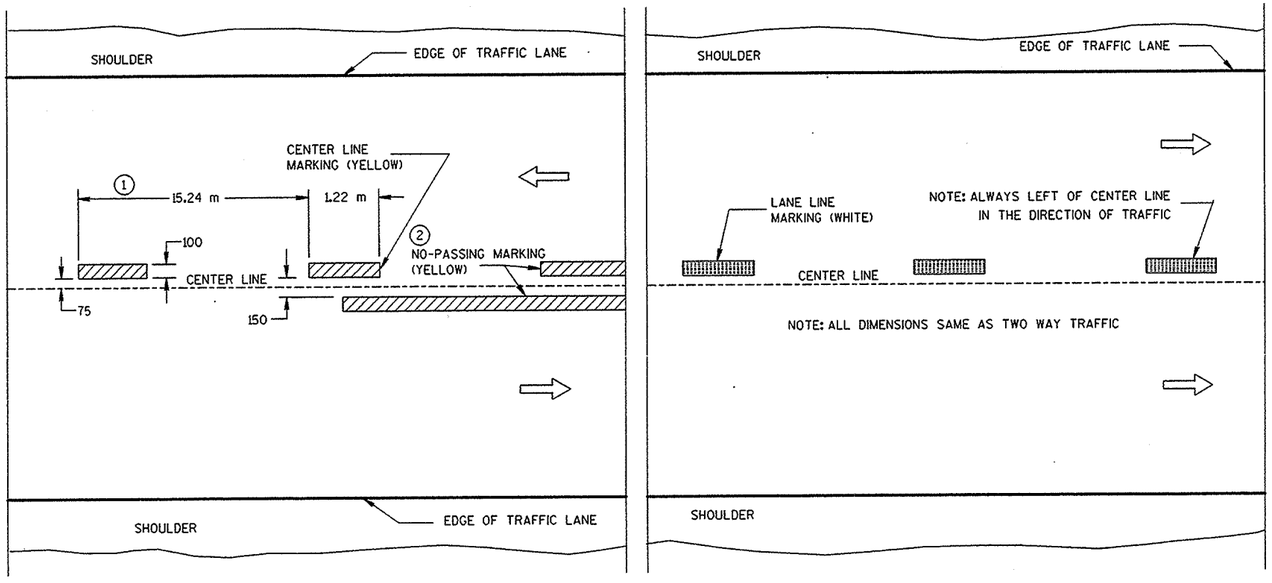
FILE NAME:



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) HALF CYCLE LENGTHS (7.62 m±) WITH 600 mm 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.

(2) 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

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-10-98
DATE

Charles J. Sprey
CHIEF SIGNS AND MARKING ENGINEER

FHWA

M

S.D.D. 15 C 8-8a

S.D.D. 15 C 8-8a

NOTES

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

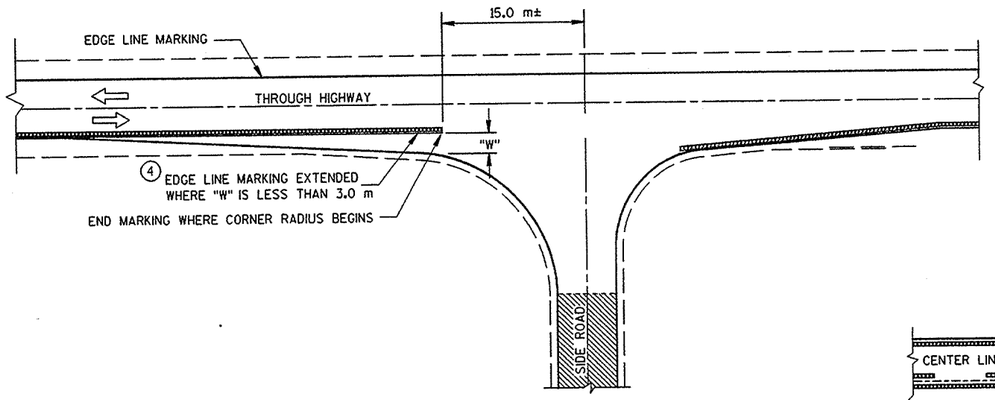
(1) WHEN DISTANCE "A" IS LESS THAN 76 m, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 30 m, OMIT CHANNELIZING LANE LINE.

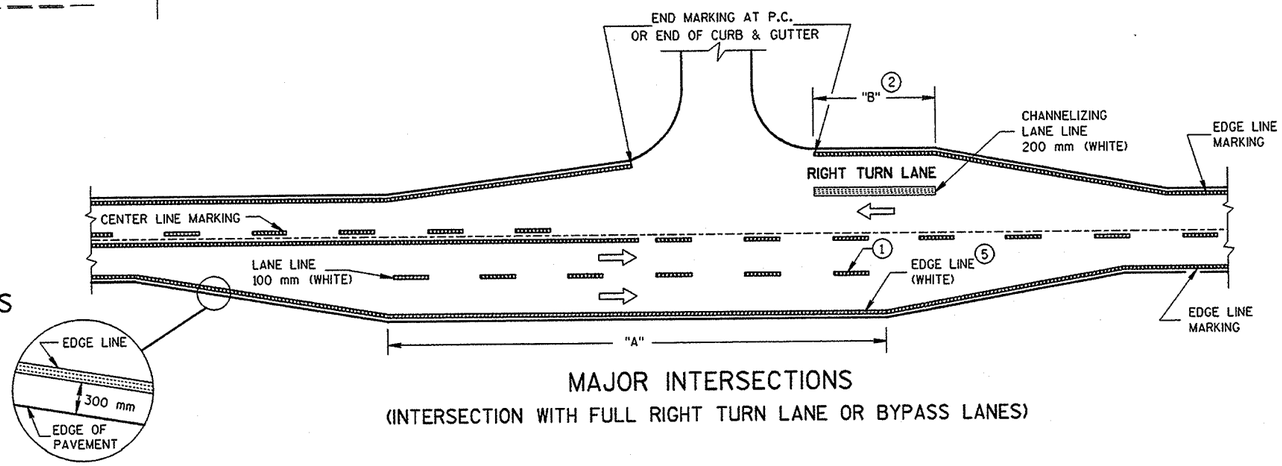
(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) LOCATE THE EDGE LINE ALONG THE TAPER WHERE "W" IS 3.0 m OR MORE.

(5) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 300 mm FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

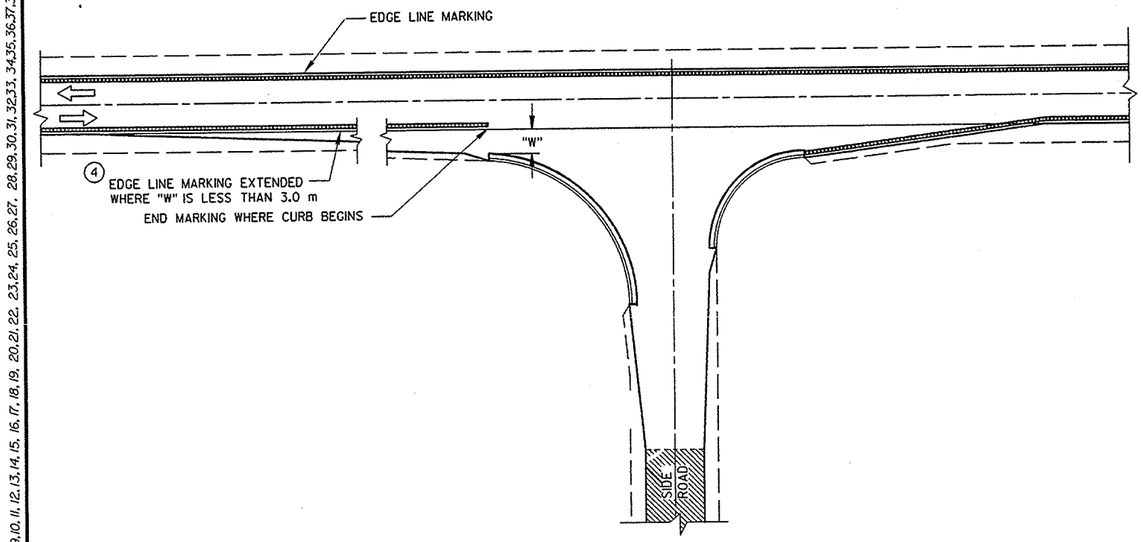


MINOR INTERSECTION WITHOUT CURBS



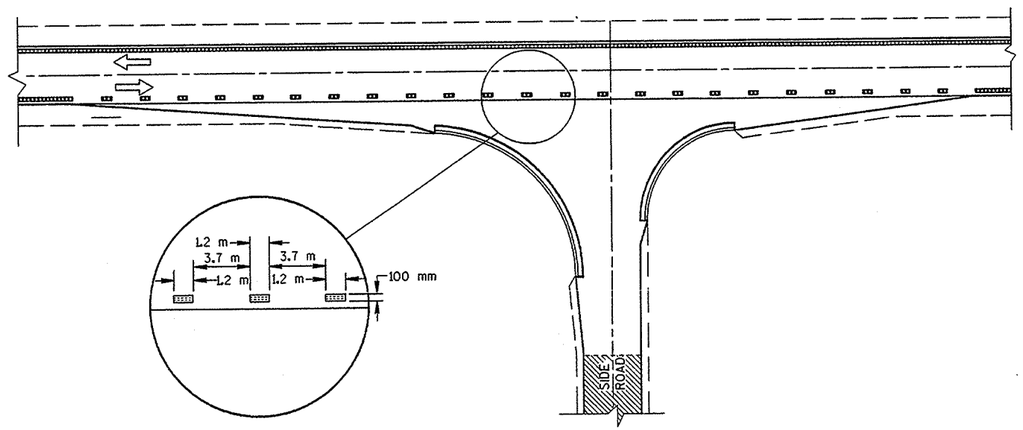
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

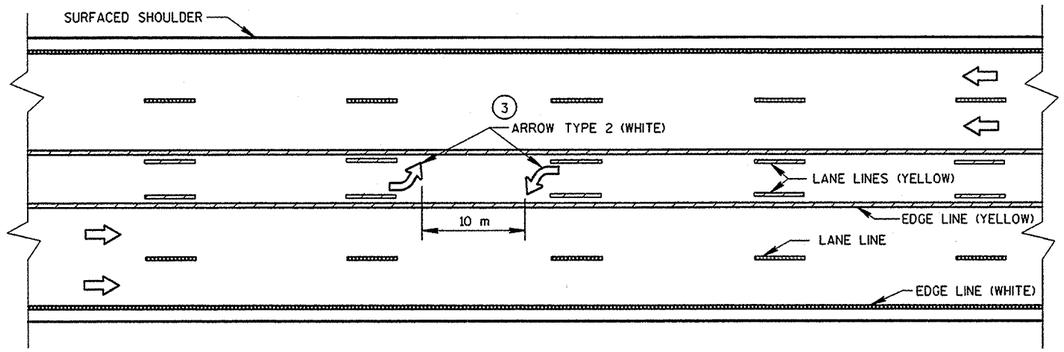
(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION M

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

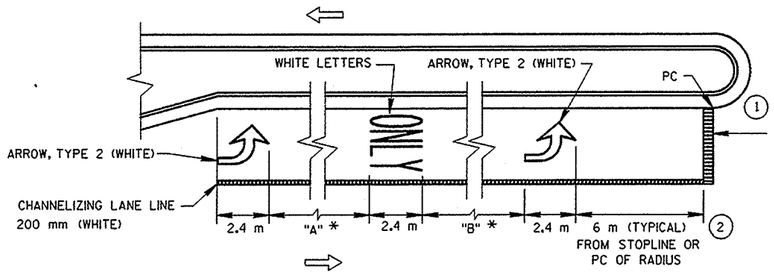
NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

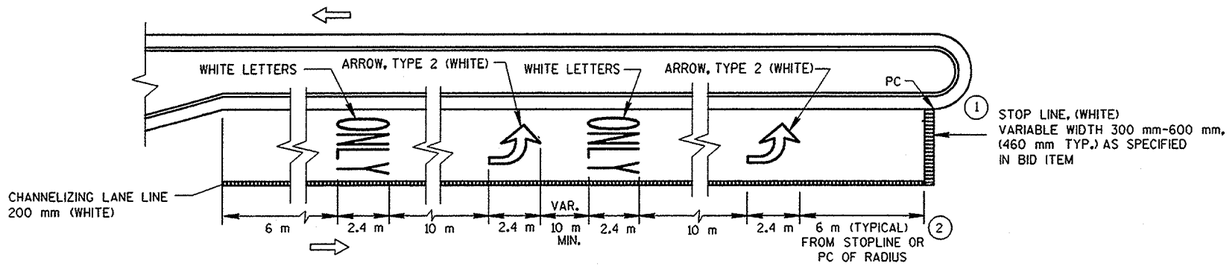
NOTES:

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 120.0 m OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

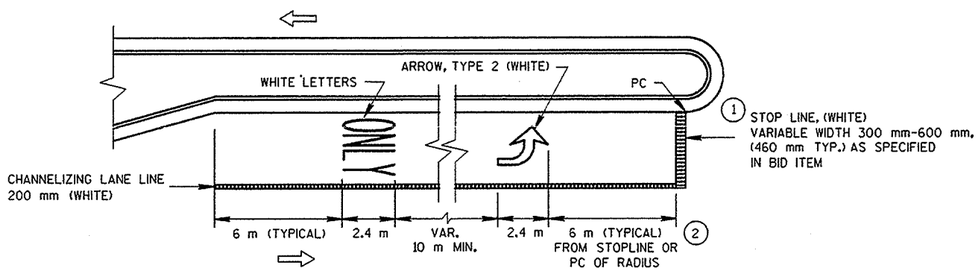


* VARIABLE. 10 m MIN.
"A" = "B" (TYPICAL).

LEFT TURN LANE
(LENGTH 35 m TO 50 m)



LEFT TURN LANE
(LENGTH OVER 50 m)



LEFT TURN LANE
(LENGTH UNDER 35 m)

PAVEMENT MARKING
(LEFT TURN LANE)

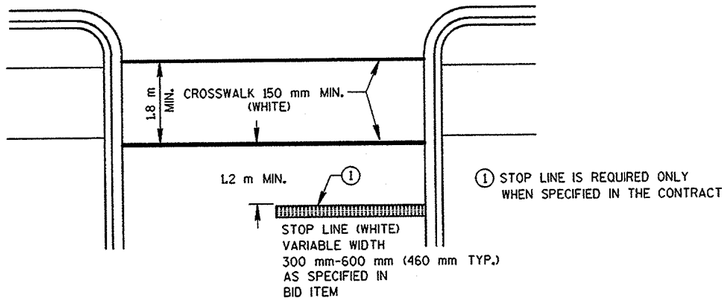
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION M

S.D.D. 15 C 8-8d

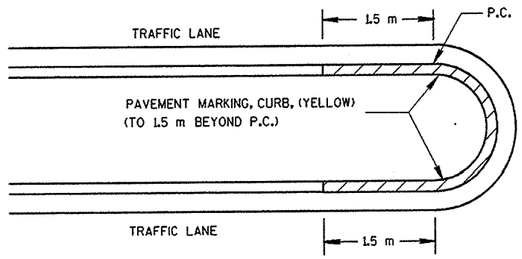
FILE NAME:

S.D.D. 15 C 8-8d

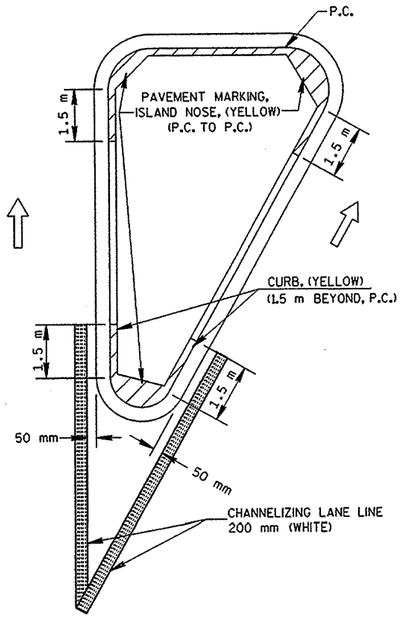
LEVELS ON • 2,3,4,5,6,7,8, 9,10,11,12,13,14,15,16,17,18,19, 20,21,22, 23,24, 25,26,27, 28,29,30,31,32,33, 34,35,36,37,38,39, 40,41,42,43,44,45,46,47, 48, 49,50,51, 52,53,54,55,56,57,58,59,60,61,62,63



STOP LINE AND CROSSWALK

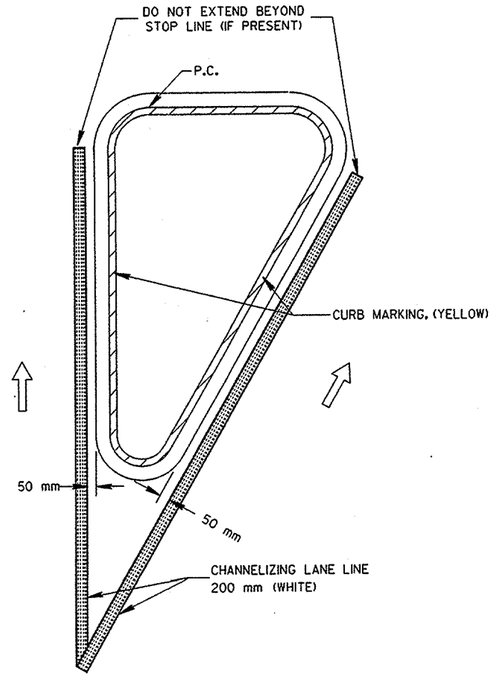


MEDIAN CURB



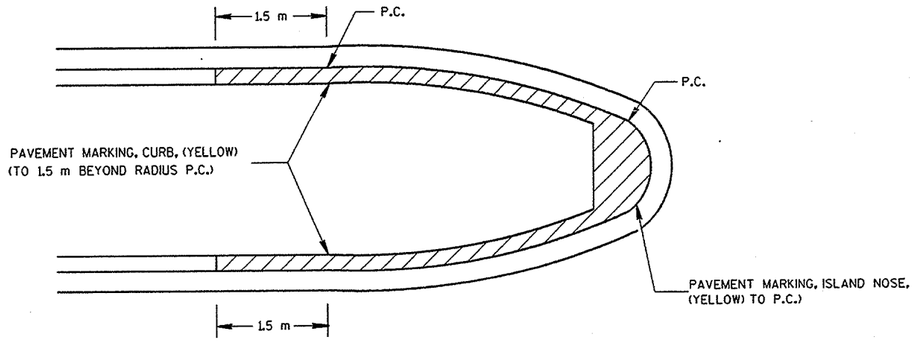
LARGE ISLAND

(GREATER THAN 15.0 m PERIMETER OR ANY SIDE GREATER THAN 8.0 m BETWEEN CURVES)



SMALL ISLAND

(LESS THAN 15.0 m PERIMETER OR ANY SIDE LESS THAN 8.0 m BETWEEN CURVES)



BULLET NOSE ISLAND

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS, STOP LINE & CROSS WALK)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

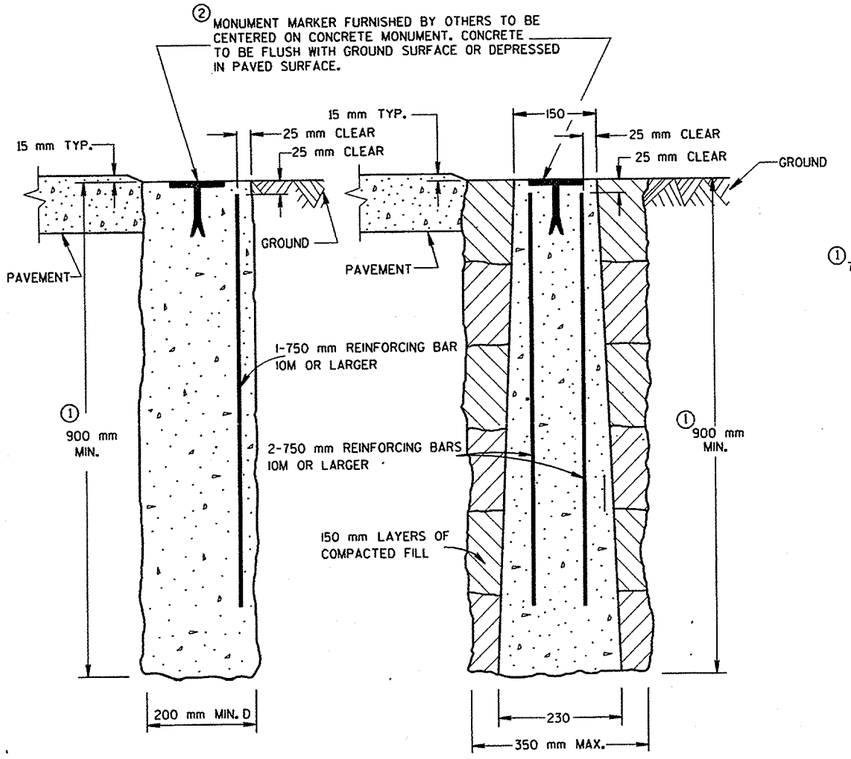
APPROVED
4-10-98
DATE
Charles J. Sparg
CHIEF SIGNS AND MARKING ENGINEER
FHWA
M

S.D.D. 15 C 8-8e

S.D.D. 15 C 8-8e

LEVELS ON - 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:

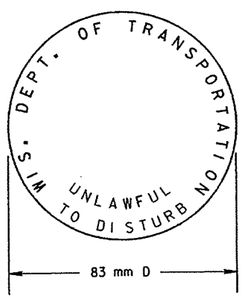


CAST-IN-PLACE

PRECAST

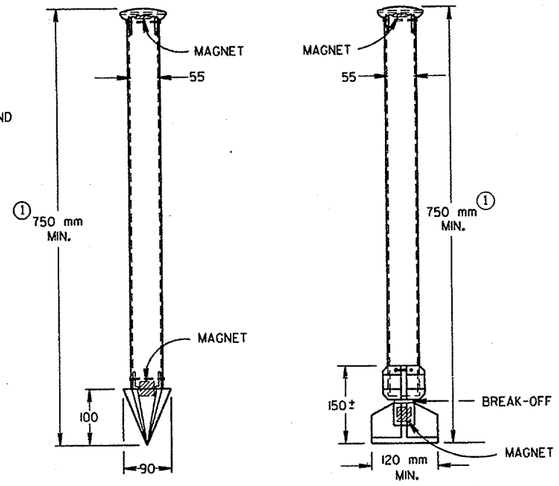
CONCRETE MONUMENTS

TYPE A



② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C" & "D"



TYPE C

DRIVE-IN MONUMENT

TYPE D

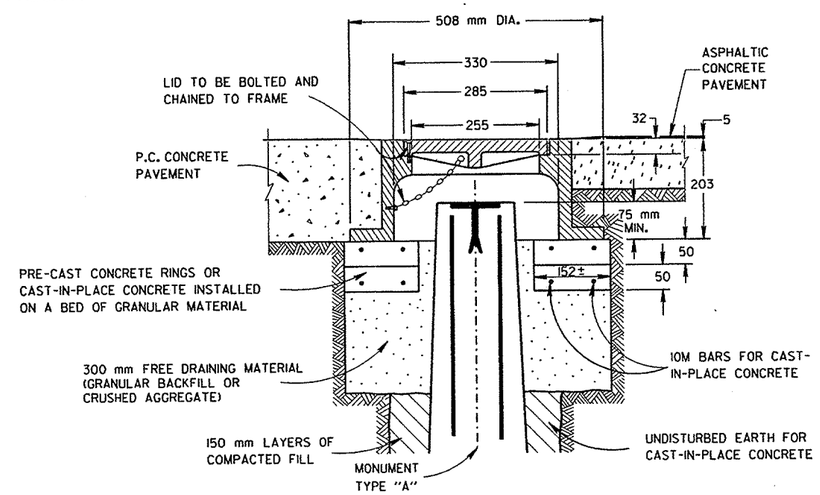
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 43 kg)

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.

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.

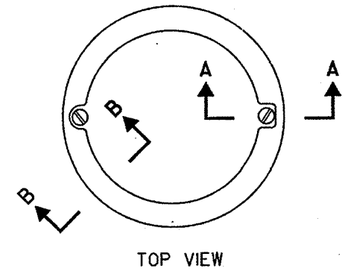
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

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.

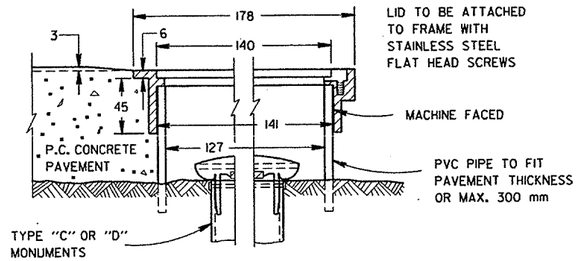
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 1.2 m 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.



TOP VIEW



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 0.9 kg)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 02/07/95 DATE

Roy L. Thompson
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

M

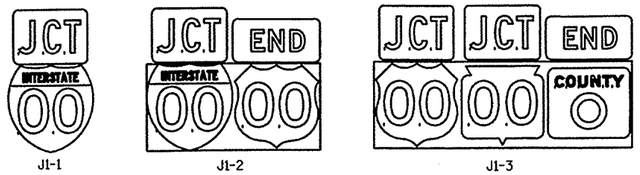
S.D.D. 16 A 1-5

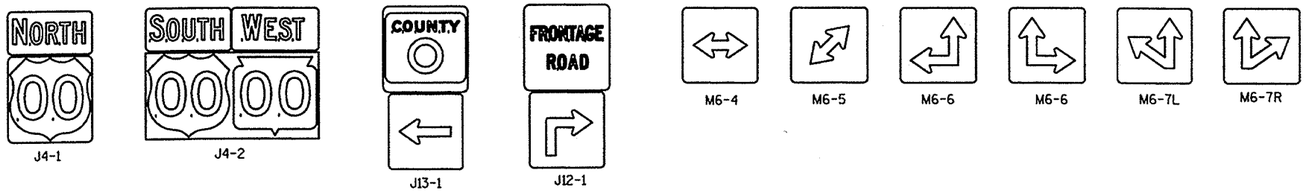
LEVELS ON - 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

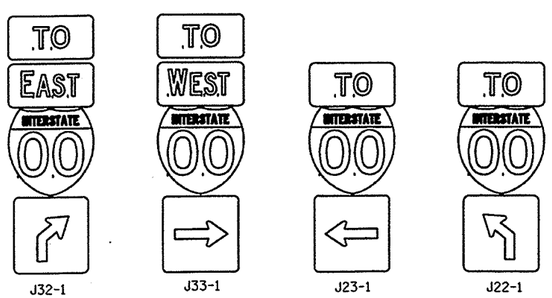
S.D.D. 16 A 1-5

FILE NAME:

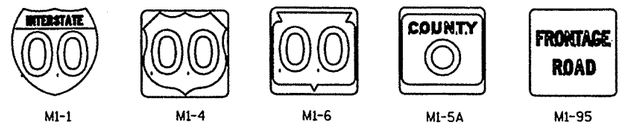
TYPICAL ASSEMBLIES

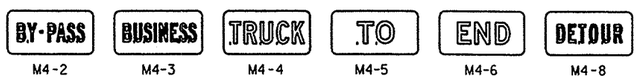


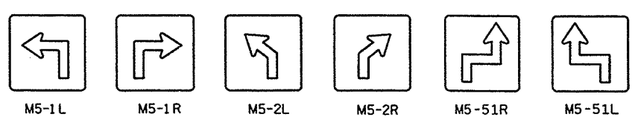


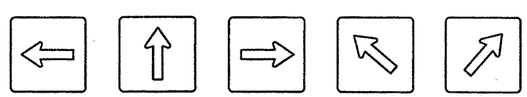


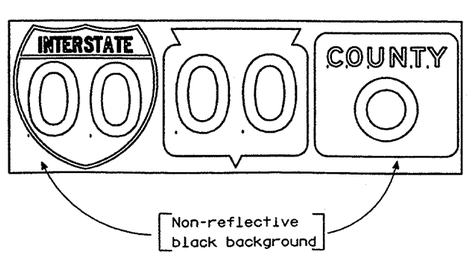
INDIVIDUAL COMPONENTS OF ASSEMBLIES











GENERAL NOTES

1. All components within any individual assembly shall be the same "size". The following table illustrates that situation:

SIZE	M1'S	M2	M3'S & M4'S	M5'S & M6'S
2	600 X 600	525 X 375	600 X 300	525 X 525
3,4-5	900 X 900	750 X 525	750 X 375	750 X 750

2. For any assembly containing two or more route markers, the route markers SHALL be placed on a single high density overlay PLYWOOD panel. All other materials within the assembly can be either plywood or aluminum.
3. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 marker shall be blue.
4. All dimensions in millimeters unless otherwise noted.

ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

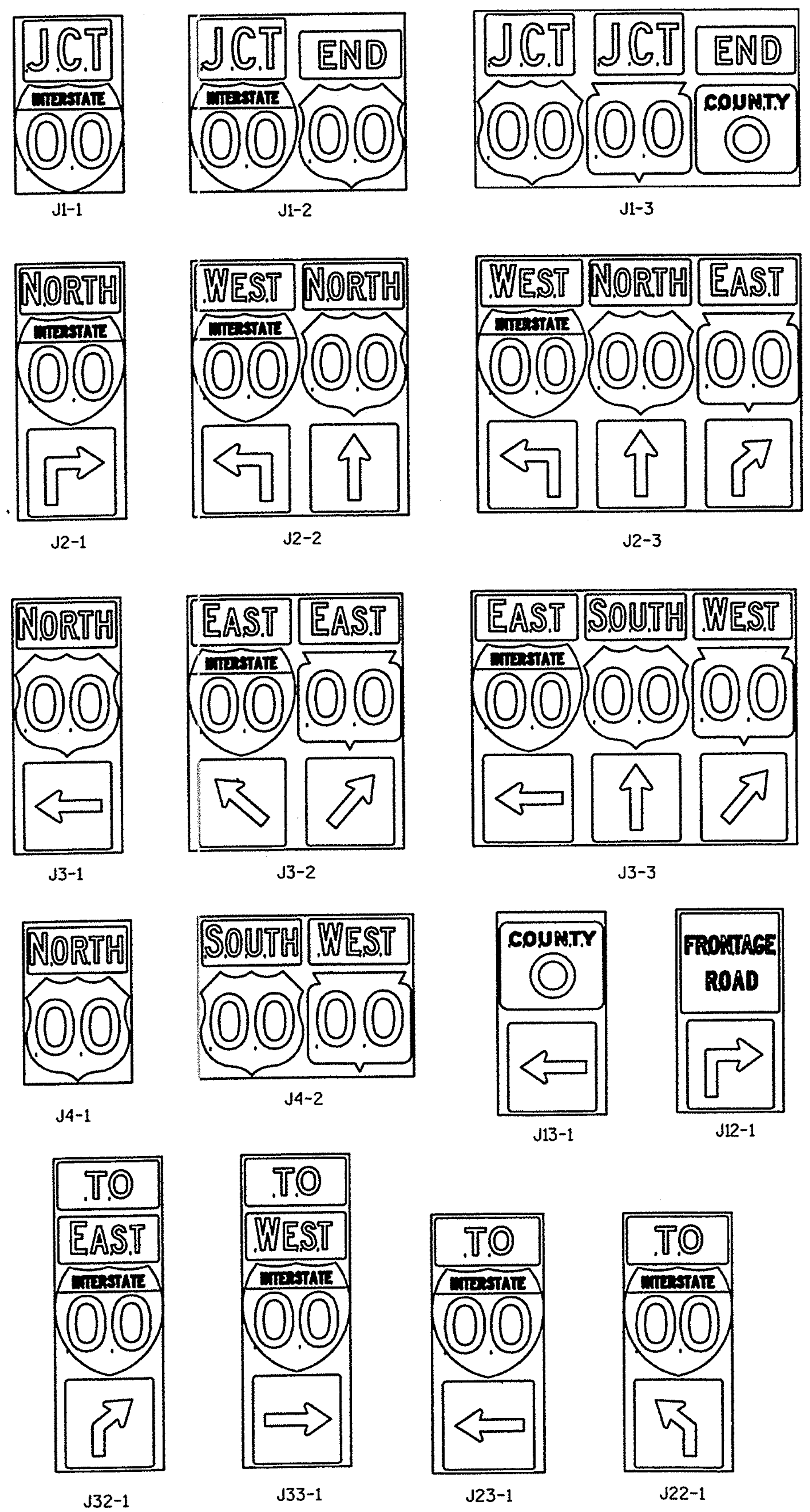
APPROVED Chester J Spang for State Traffic Engineer

DATE 10/28/96 PLATE NO. A2-1M.5

WISDOT/CADDS METRIC SHEET | M

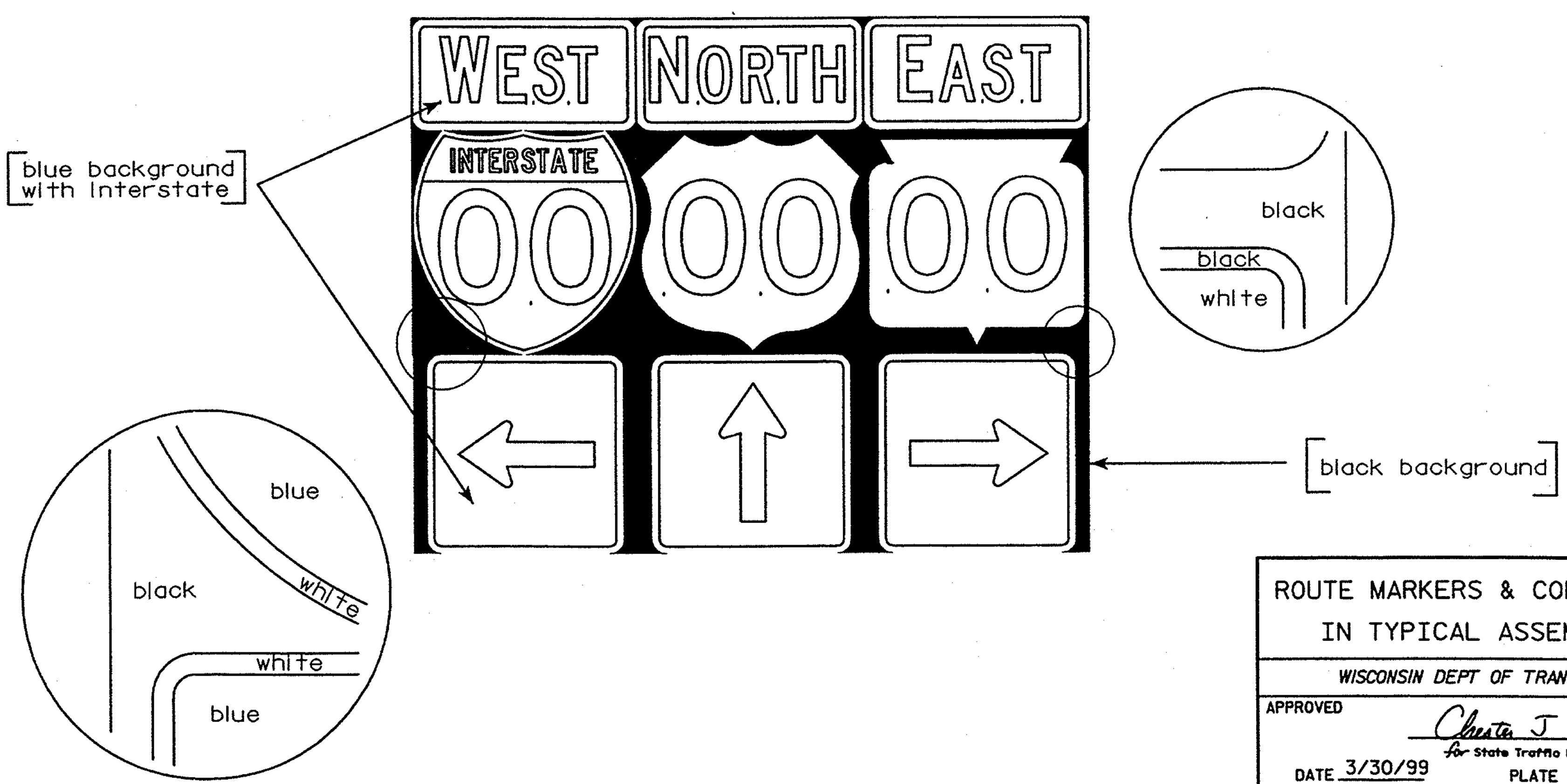
PLOT SCALE: 12 : 1
PLOT NAME: 58,59,63
REV. DATE: 10/21/96
ORIGINATOR: Sandy Anderson
FILE NAME: A21M.dgn
LEVELS ON • 1,2 5,6 10.

TYPICAL ASSEMBLIES



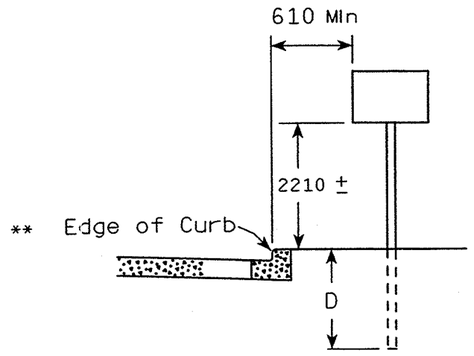
NOTES

1. Signs are Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square since base material is plywood.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.

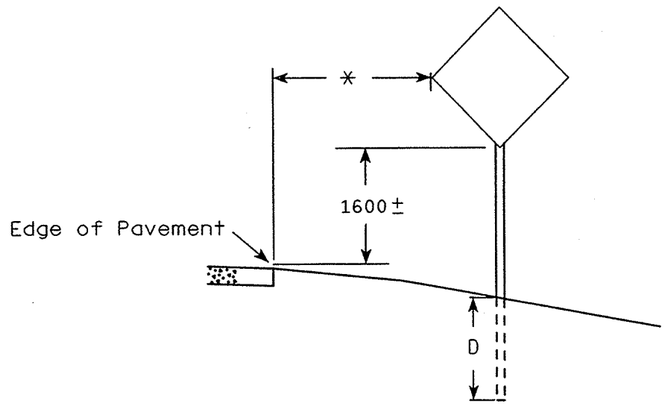


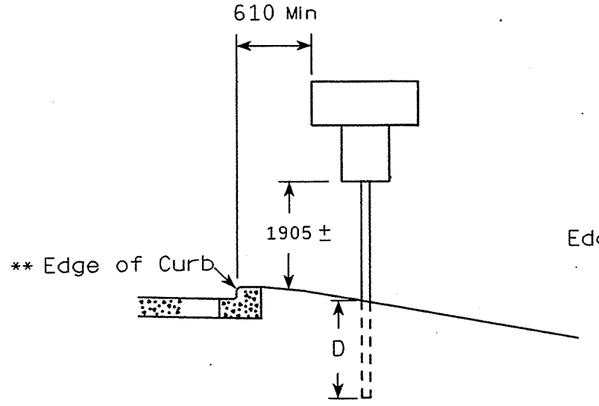
ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES
WISCONSIN DEPT OF TRANSPORTATION
APPROVED [signature] for State Traffic Engineer
DATE 3/30/99 PLATE NO. A2-1S.1

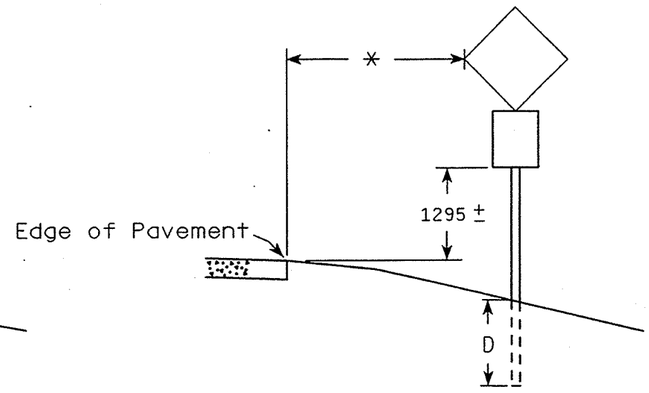
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Sign assemblies wider than 1200 or larger than 1.86 m2 shall be mounted on multiple posts. See plate A4-4 for typical installations.
2. For expressway and freeways installations, the minimum mounting height is 2210 ± or 1905 ± depending upon the existence of a sub-sign.
3. For Route Marker assemblies or J panels, the minimum mounting height is 2210 ± or 1600 ± depending upon urban/rural area.
4. The (±) tolerance for the mounting height is 75.
5. All dimensions in millimeters unless otherwise noted.

POST EMBEDMENT DEPTH

Area of Sign Installation (m2)	D (Min)
1.86 or Less	1200
Greater than 1.86	1500

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically where there is sidewalk adjacent to the roadway or parking is permitted.

* 1830 from edge of a paved shoulder or 3660 from the edge of pavement (edgeline location), whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

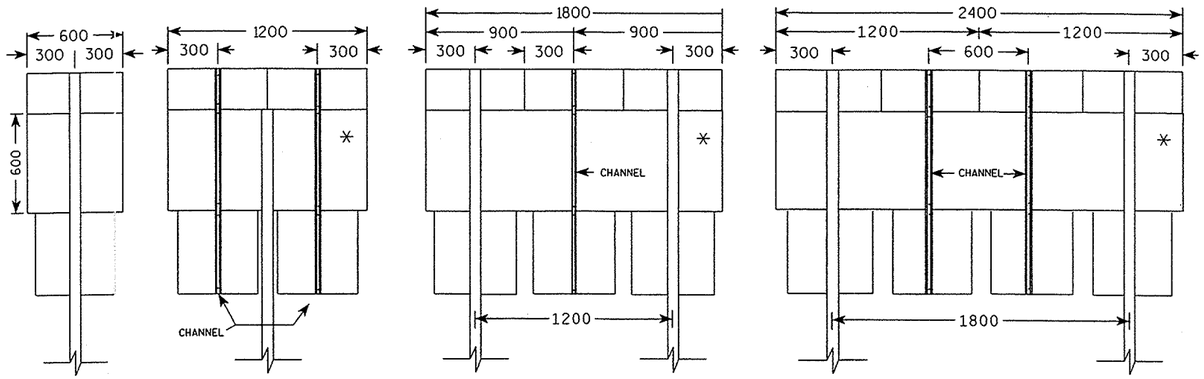
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Charles J Sippy for State Traffic Engineer

DATE 05/12/98 PLATE NO. A4-3M.11

WISDOT/CADDS METRIC SHEET M

PLOT SCALE: 63
PLOT NAME: 58,59,60
REV. DATE: 05/12/98
ORIGINATOR: Don Kluever
FILE NAME: A43M.dgn
LEVELS ON - 2 56 10



600 mm MARKER DETAIL

NOTES;

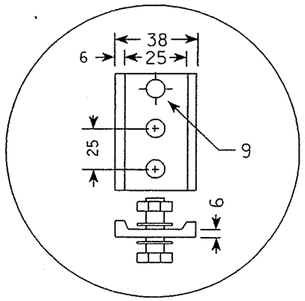
1. Post spacing shall be according to this detail but post embedment depth shall be in accordance with A4-4.
2. Channel material shall be as specified in Section 633 of Std. Specs. and weight shall be approx. 2.08 kg/m
3. Base material for a multiple marker head panel (*) shall be one piece high density overlay plywood. All other materials within the assembly can be either plywood or aluminum.
4. All dimensions in millimeters unless otherwise noted.

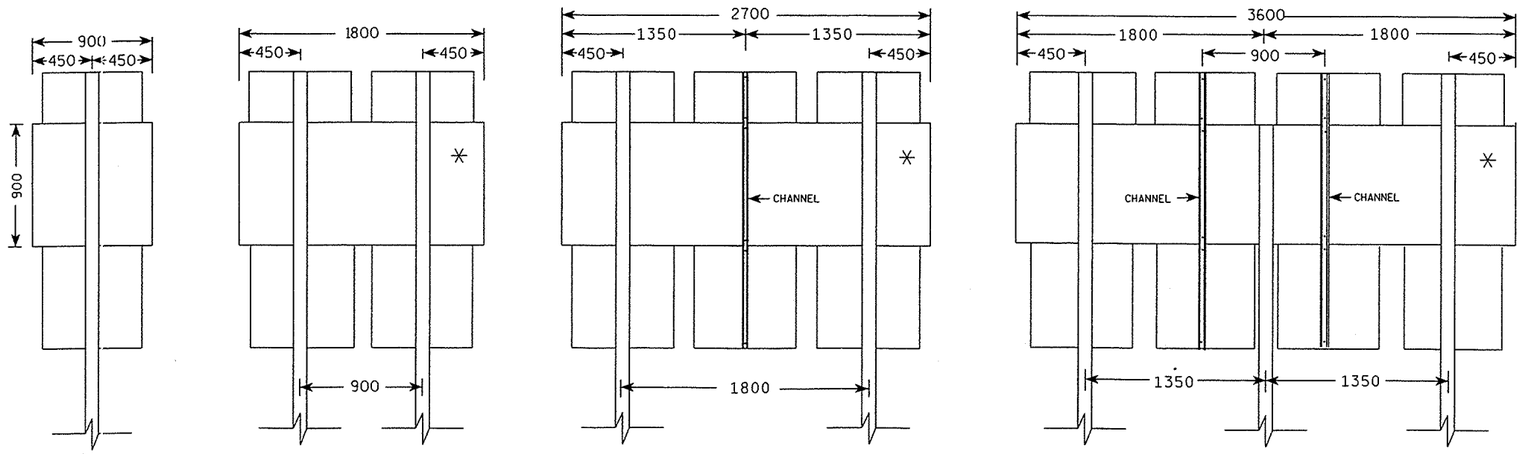
CHANNEL HARDWARE:

Aluminum Sign components: M6 x 20 bolt and 6 flat washers

Plywood Sign Components: M6 x 35 bolt and 6 flat washers

CHANNEL DETAIL





900 mm MARKER DETAIL

TYPICAL PANEL INSTALLATION FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Charles J Spagg for State Traffic Engineer

DATE 10/28/96 PLATE NO. A4-5M.4

WISDOT/CADDS METRIC SHEET M

PLOT SCALE: 10 : 1

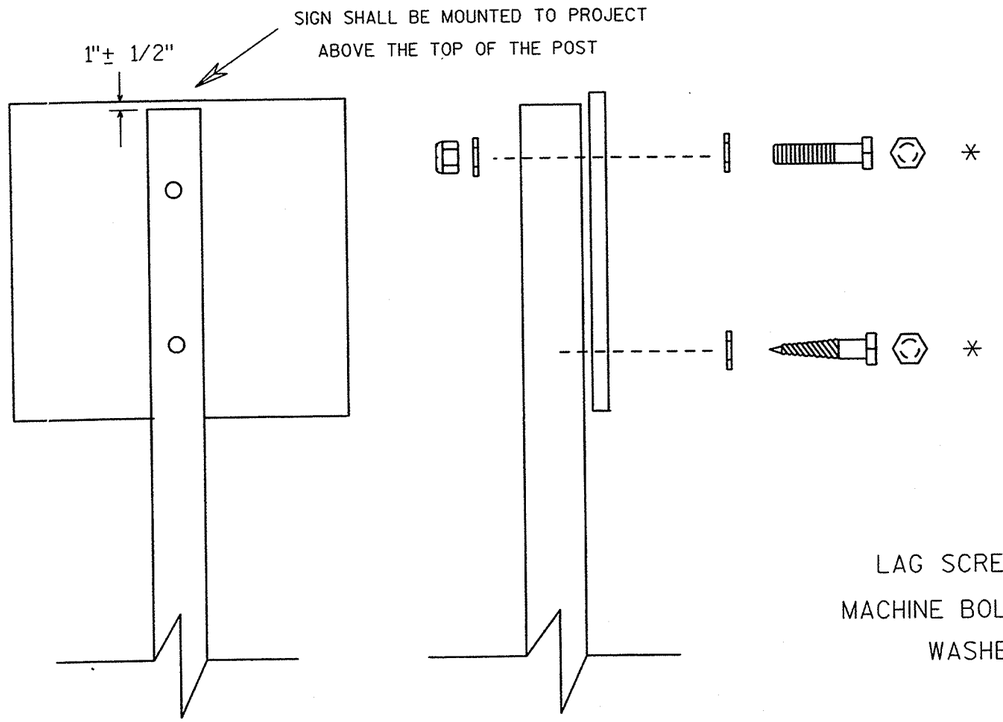
PLOT NAME: 58,59,60,63

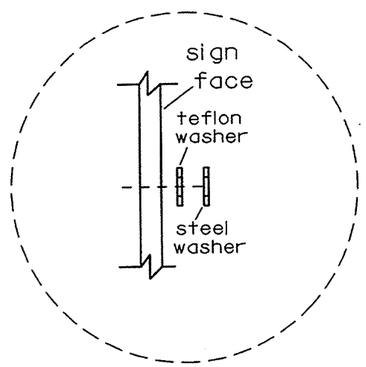
REV. DATE: 10/23/96

ORIGINATOR: Sandy Anderson

FILE NAME: A45M.dgn

LEVELS ON • 1,2,3, 5,6, 10,





Washer Placement when Sign Has Type H Face

Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

WASHERS - 1" O.D. X 3/8" I.D. X 1/16" STEEL for signs 24x24 and smaller.
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL for signs 24x30 to 36x48.
1-1/2" O.D. X 7/16" I.D. X 1/16" STEEL for signs 48x48 and larger.
1-1/4" O.D. X 3/8" I.D. X .080 TEFLON for all Type H signs.

* Two different fastening systems are shown for illustration purposes only. On any individual sign, either one or the other system shall be used unless otherwise indicated in the special provisions.

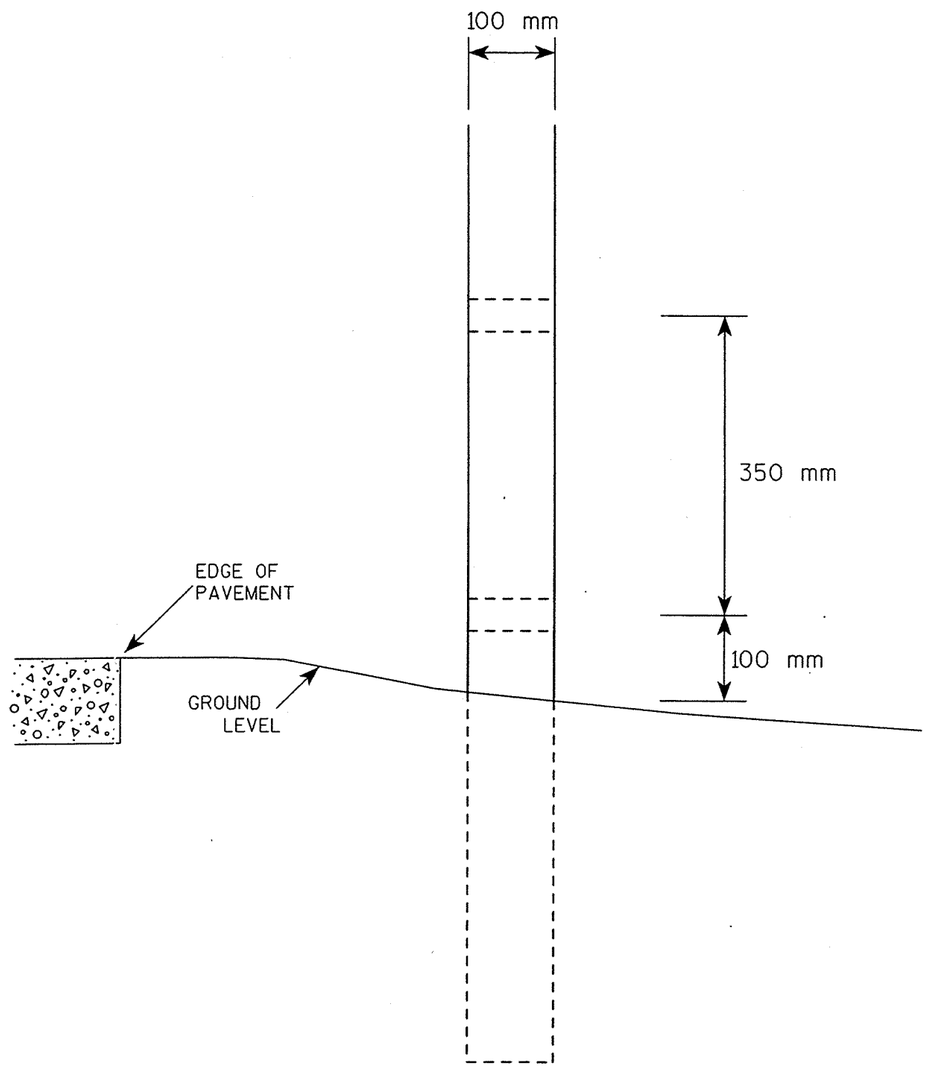
ATTACHMENT OF SIGNS TO WOOD POSTS

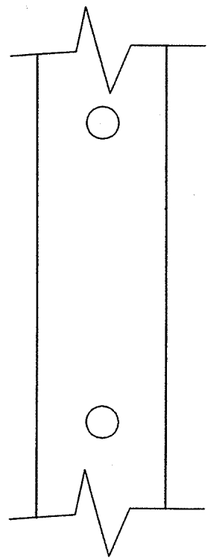
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Sprague for State Traffic Engineer

DATE 4/3/96 PLATE NO. A4-8.3

STATE PROJECT NUMBER 4984-00-97,95
SHEET NO. 7.6





GENERAL NOTES

1. All 100 X 150 mm Wood Posts shall be modified by having two 38 mm diameter holes drilled perpendicular to the roadway centerline.

100 × 150 mm WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spange for State Traffic Engineer

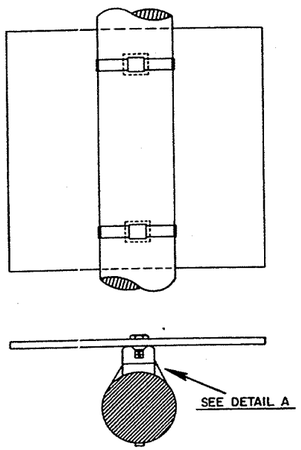
DATE 10/28/96 PLATE NO. A4-11M.1

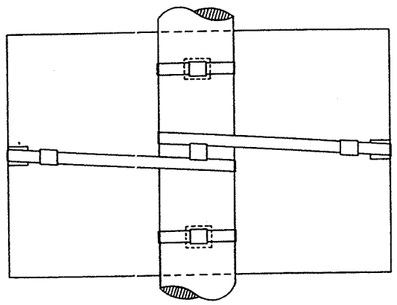
WISDOT/CADDS METRIC SHEET M

PLOT SCALE: 2 : 1
PLOT NAME: 63 58,59,
REV. DATE: 10/23/96
ORIGINATOR: Sandy Anderson
FILE NAME: A411M.dgn
LEVELS ON - 1, 2, 5, 10,

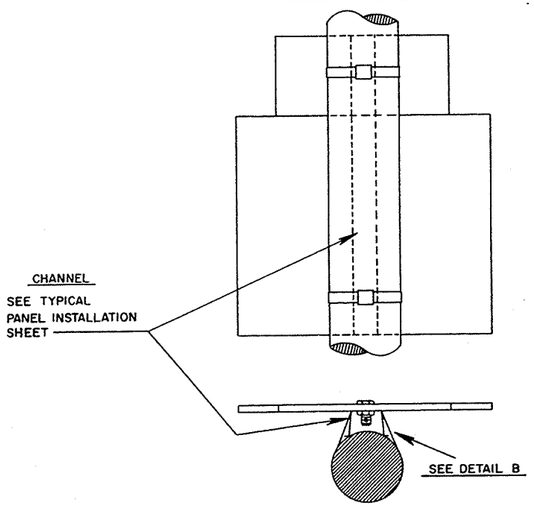
PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
4984-00-95	7.7	
PROJECT DESIGNATION		

SINGLE SIGN





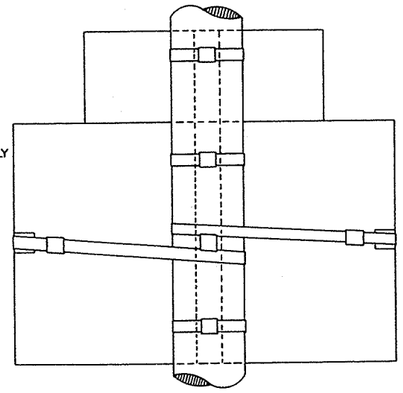
"J" ASSEMBLY



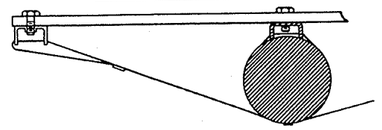
BRACKET BANDING

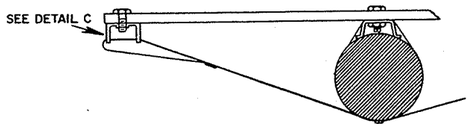
USE ONE BRACE BAND ON EACH SIGN 4 FEET OR MORE IN WIDTH.

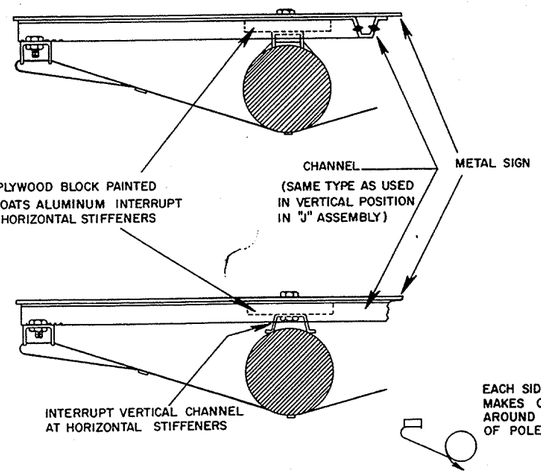
BRACE BANDING SHALL BE TIGHTENED FIRMLY BUT NOT SO TIGHT AS TO APPRECIABLY CURVE FACE OF SIGN.

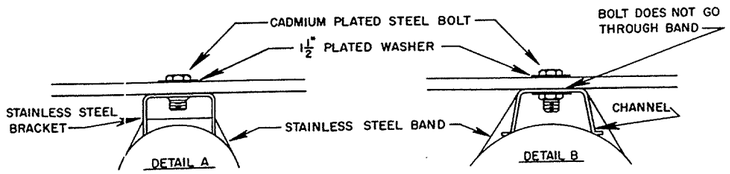


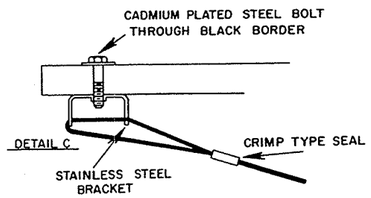
BRACKET BANDING











BRACE BANDING

NUMBER OF BRACKET BANDS

WHEN THE AREA OF THE SIGN OR SIGN ASSEMBLY IS LESS THAN 10 SQUARE FEET TWO BRACKET BANDS SHALL BE USED.

WHEN THE AREA IS 10 SQUARE FEET OR MORE, THREE BRACKET BANDS SHALL BE USED.

MATERIAL

BANDING AND ASSEMBLY BRACKET SHALL STAINLESS STEEL ALL BANDING SHALL BE 3/4-INCH IN WIDTH

Date Redrawn – 2/18/71

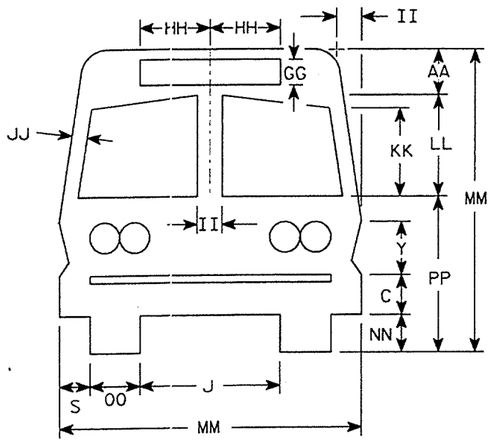
Date Revised —

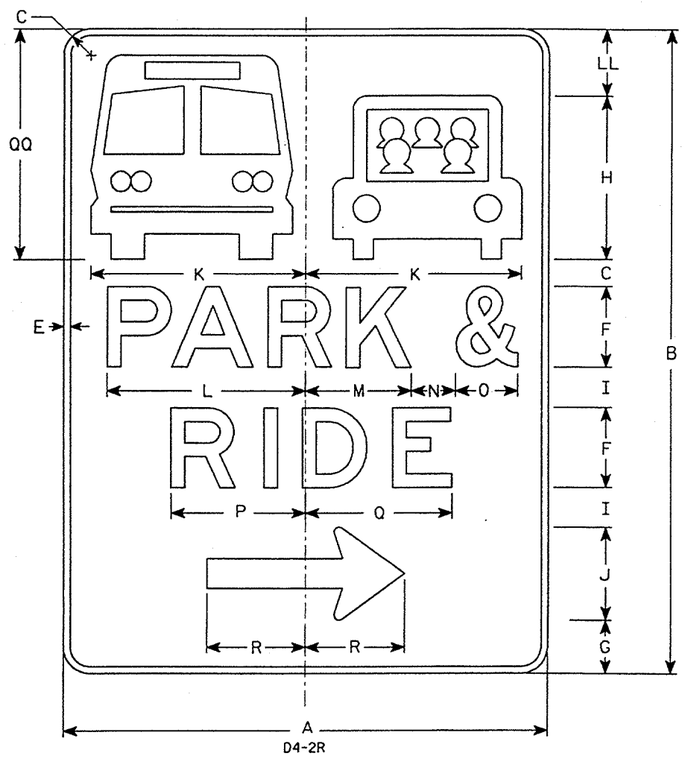
SIGN BANDING DETAILS

WISCONSIN DIVISION OF HIGHWAYS

APPROVED _____ CHIEF TRAFFIC ENGINEER

DATE _____ PLATE NO. A5-9.1

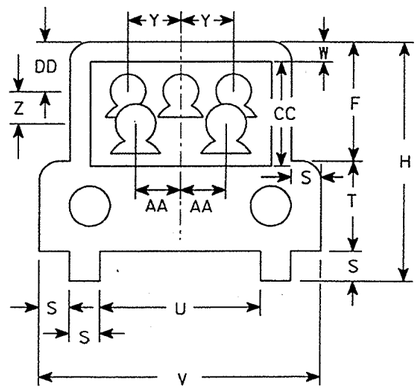


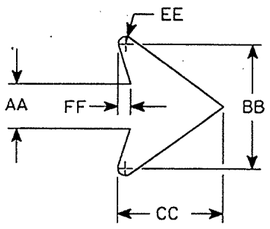


D4-2R

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for ROAD and BRIDGE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The D4-2L is the same as a D4-2R except the arrow is reversed.
6. The D4-2 sign may have either symbol or both symbols at the same time.





Arrow Detail

Metric equivalent for this sign is:

SIZE	
1	
2	900 mm X 1200 mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	36	48	2		1/2	6	4	12	3	7	16	14 3/4	7 7/8	3 1/4	4 5/8	10	10 7/8	7 3/8	1 1/2	4 1/2	8	14	1	1 3/4	2 5/8	1 5/8	12.0
3																											
4																											
5																											

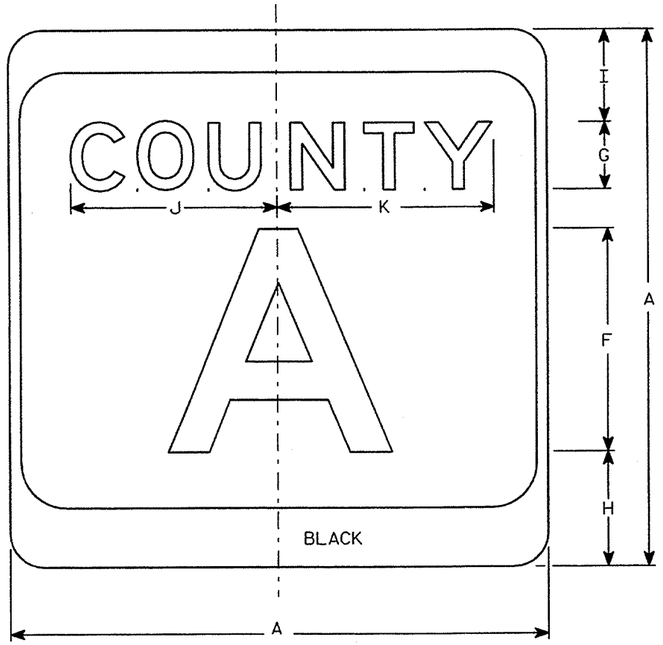
SIZE	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	UU	VV	WW	XX	YY	ZZ	Area sq. ft.
1																											
2	2 1/4	6 1/4	5 1/4	2 1/2	3/8	5/8	1 3/8	3 1/2	1 1/4	3/4	4 3/8	5	15	1 7/8	2 1/2	7 3/4	17										
3																											
4																											
5																											

STANDARD SIGN
D4-2

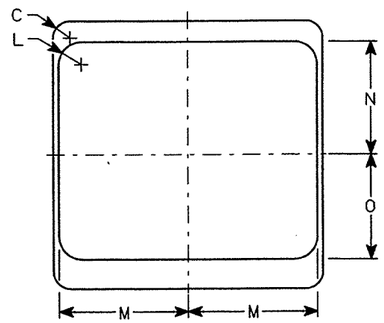
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Patt Rusch
Director, Office of Traffic

DATE 1-17-95 PLATE NO. D4-2.2



M1-5A



NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropirate letters & optically adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

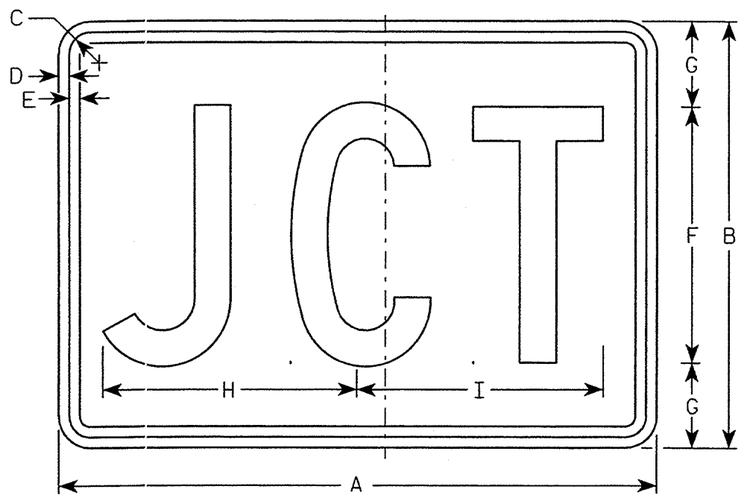
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8												4.0	.36
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14												9.0	.81
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14												9.0	.81
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14												9.0	.81

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spagg for State Traffic Engineer

DATE 10/15/98 PLATE NO. M1-5A.6



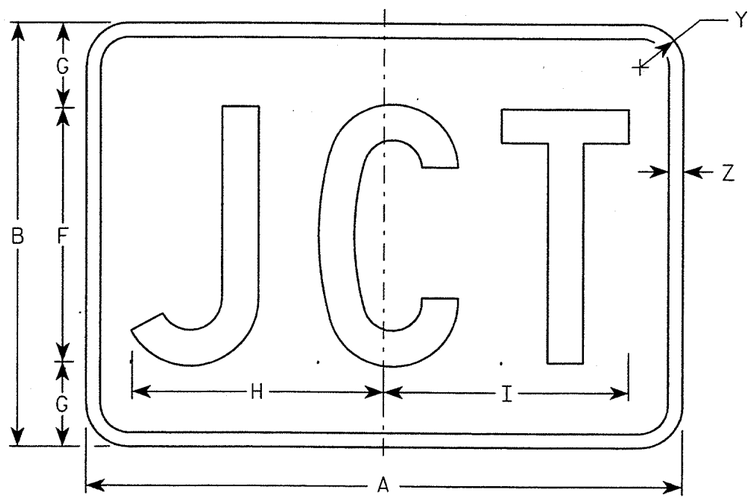
M2-1

MK2-1

MM2-1*

MR2-1

*See Note 6



MB2-1

MG2-1

MN2-1

NOTES

1. Sign is Type II - See note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - Se note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - Reflective white
   Message - Black
   MB2-1 Background - Reflective blue
   Message - Reflective white
   MG2-1 Background - Reflective green
   Message - Reflective white
   MK2-1 Background - Non-refective green
   Message - Non-reflective white
   MM2-1 Background - Reflective white
   Message - Reflective green
   MN2-1 Background - Reflective brown
   Message - Reflective white
   MR2-1 Background - Non-reflective brown
   Message - Non-reflective yellow
6. Border shall be omitted on MM2-1.

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 mm

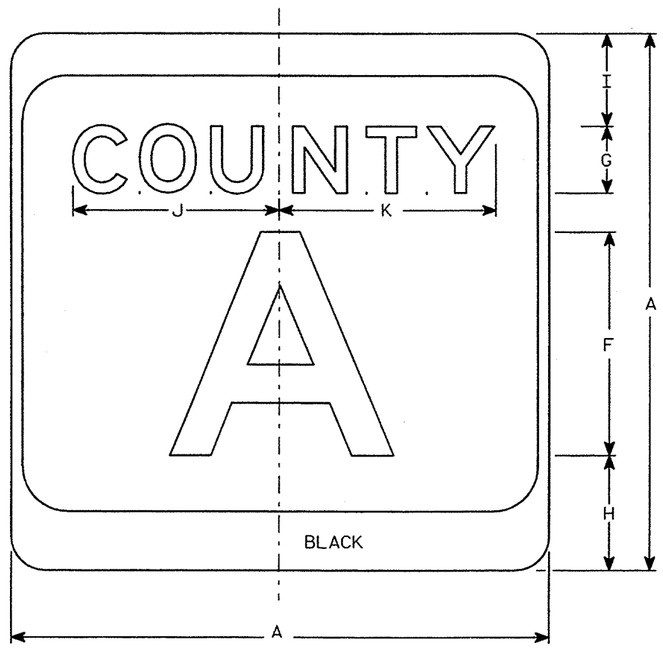
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20	0.20
3	30	21	1 1/8	3/8	1/2	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.39
4	30	21	1 1/8	3/8	1/2	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.39
5	30	21	1 1/8	3/8	1/2	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.39

STANDARD SIGN
M2-1

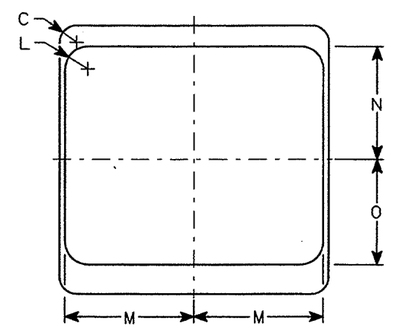
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Charles J Sprang for State Traffic Engineer

DATE 2/10/99 PLATE NO. M2-L7



M1-5A



NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropirate letters & optically adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

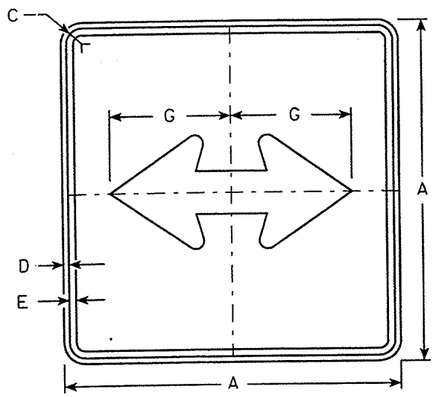
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8												4.0	.36
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14												9.0	.81
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14												9.0	.81
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14												9.0	.81

CTH MARKER
M1-5A FOR ASSEMBLIES

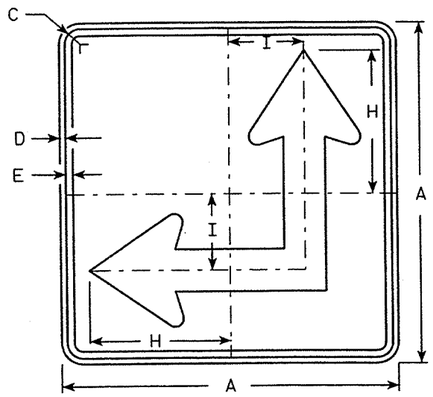
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Charles J Spanz
for State Traffic Engineer

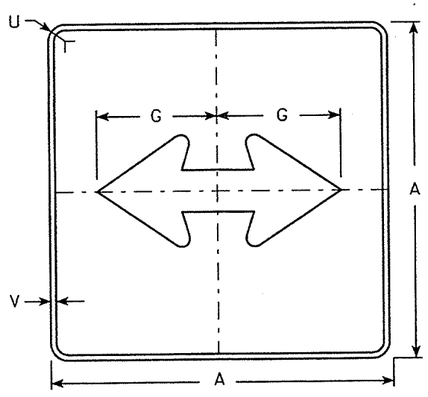
DATE 10/15/98 PLATE NO. M1-5A.6



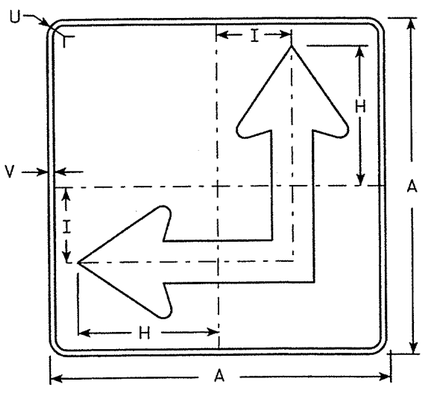
M6-4
MK6-4
MM6-4 (See Note 5)
MO6-4
MR6-4



M6-6
MK6-6
MM6-6 (See Note 5)
MO6-6
MR6-6



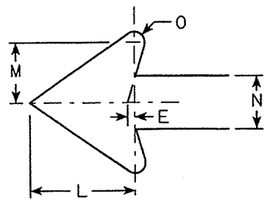
MB6-4
MG6-4
MN6-4



MB6-6
MG6-6
MN6-6

NOTES

1. Signs are Type II - See note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - Reflective white
   Message - Black
   MB6-4 and MB6-6 Background - Reflective blue
   Message - Reflective white
   MG6-4 and MG6-6 Background - Reflective green
   Message - Reflective white
   MK6-4 and MK6-6 Background - Non-Reflective green
   Message - Non-Reflective white
   MM6-4 and MM6-6 Background - Reflective white
   Message - Reflective green
   MN6-4 and MN6-6 Background - Reflective brown
   Message - Reflective white
   MO6-4 and MO6-6 Background - Reflective orange
   Message - Black
   MR6-4 and MR6-6 Background - Non-Reflective brown
   Message - Non-Reflective yellow
5. M6-6R same as M6-6L except arrow points ahead and right.
6. Border shall be omitted on MM series.



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

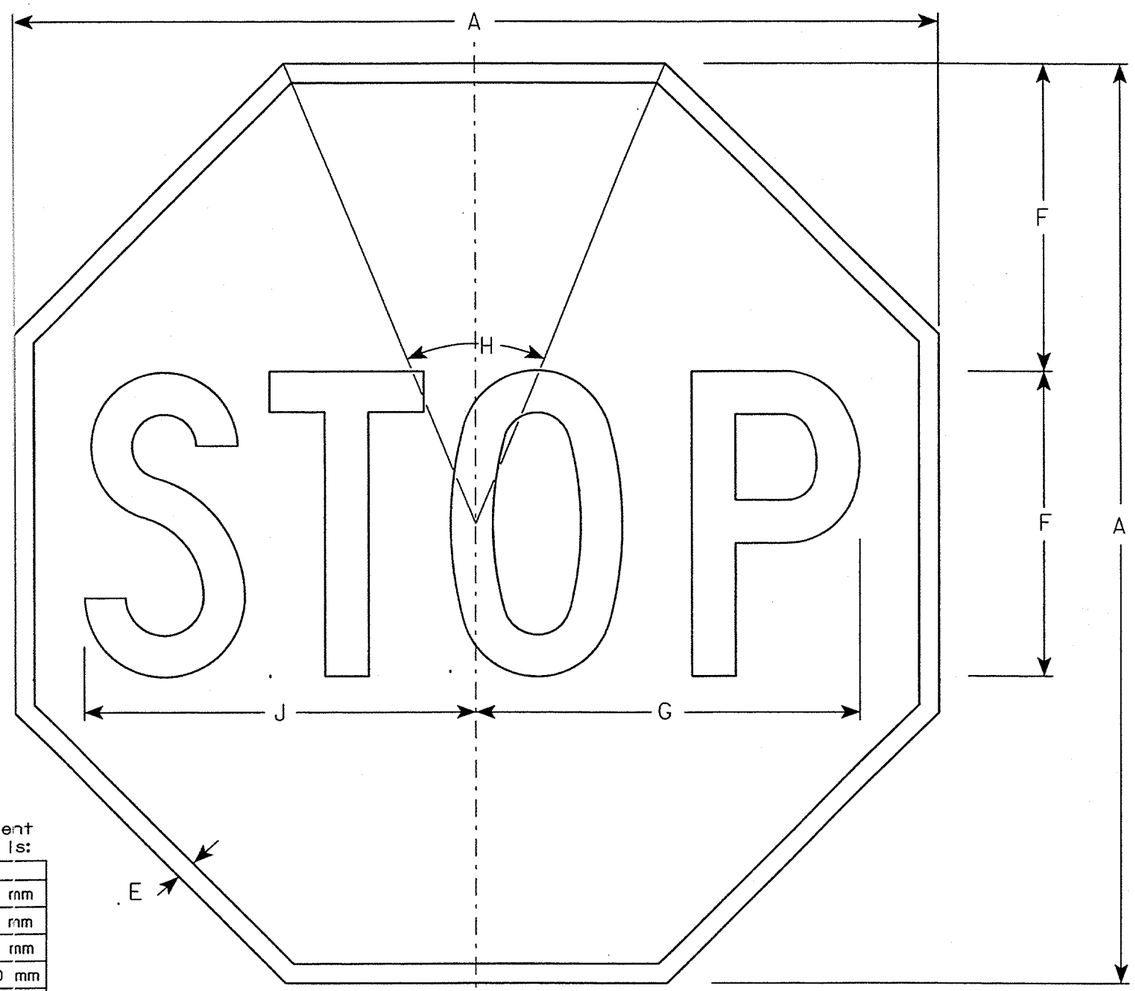
STANDARD SIGNS
M6-4 & M6-6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spagn for State Traffic Engineer

DATE 2/26/99 PLATE NO. M6-4.4

STATE PROJECT NUMBER	SHEET NO.
4984-00-97	7.12



R1-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C⁻

Metric equivalent for this sign is:

SIZE	
1	600 mm X 600 mm
2	750 mm X 750 mm
3	900 mm X 900 mm
4	1200 mm X 1200 mm
5	1200 mm X 1200 mm
6	450 mm X 450 mm
7	300 mm X 300 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	24				3/8	8	10	45°		10 1/4																	3.31	0.31
2	30				5/8	10	12 1/2	45°		12 3/4																	5.18	0.48
3	36				3/4	12	15	45°		15 3/8																	7.46	0.69
4	48				1	16	20	45°		20 1/2																	13.25	1.23
5	48				1	16	20	45°		20 1/2																	13.25	1.23
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86	0.17
7	12				1/4	4	5	45°		5 1/8																	0.78	0.07

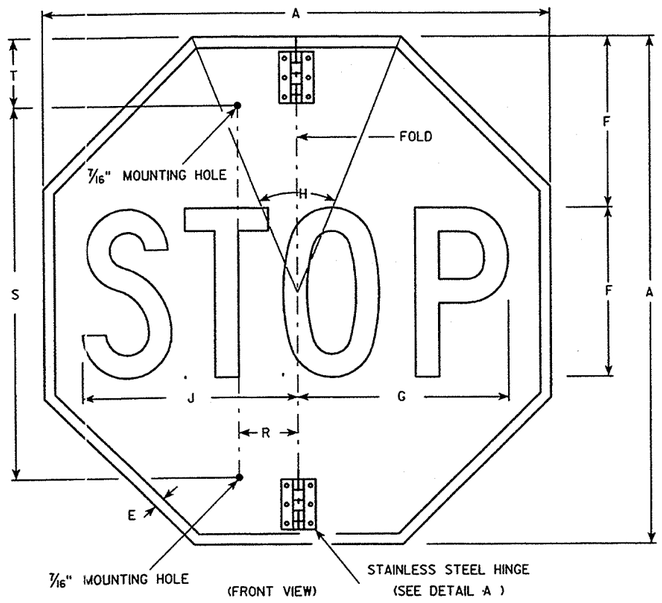
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

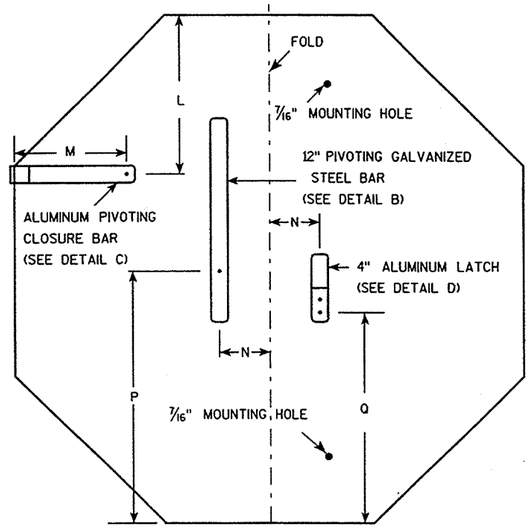
APPROVED Chester J Spange
for State Traffic Engineer

DATE 10/15/98 PLATE NO. R1-1.11

4984-00-95/7.13



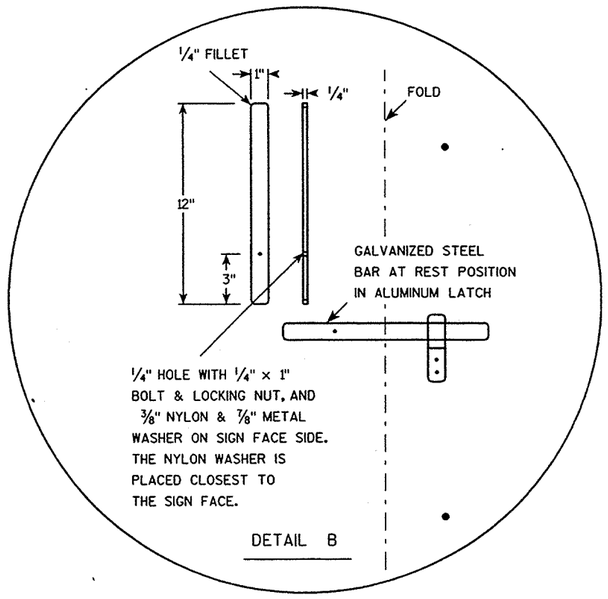
(FRONT VIEW)



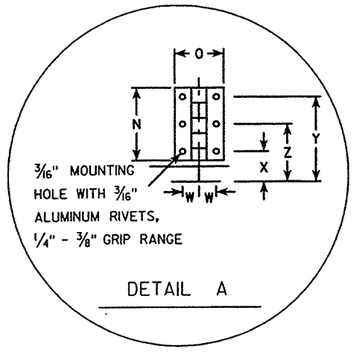
(BACK VIEW)

NOTES

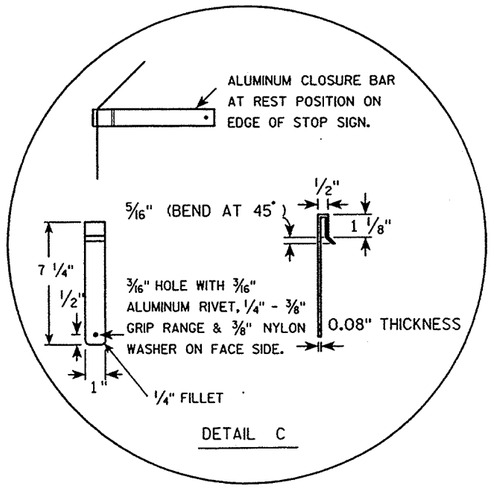
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



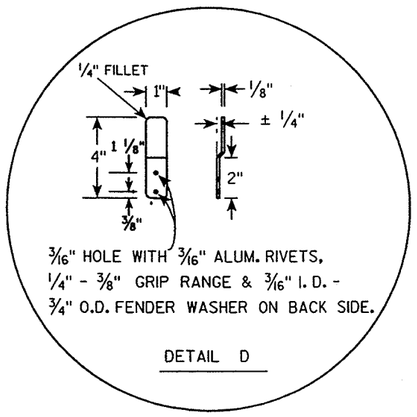
DETAIL B



DETAIL A



DETAIL C



DETAIL D

Metric equivalent for this sign is:

SIZE	
1	
2	750 mm X 750 mm
3	900 mm X 900 mm
4	
5	

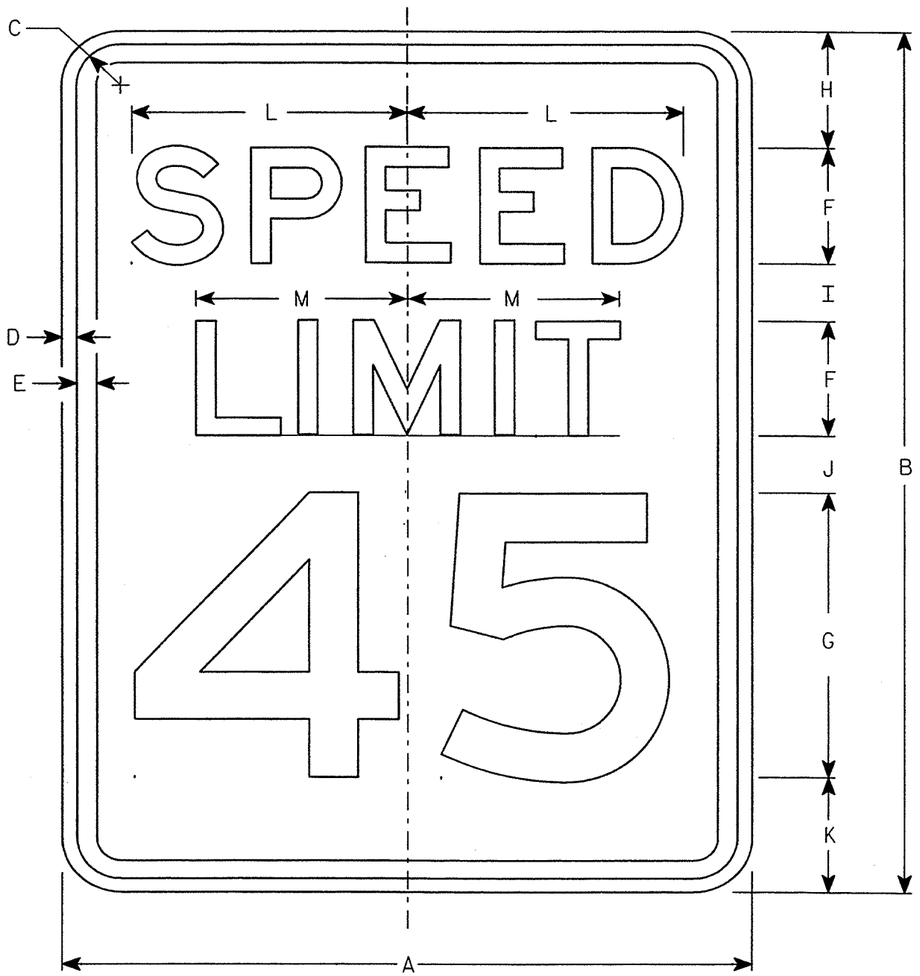
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18	0.48
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46	0.69
4																												
5																												

STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spagg
for State Traffic Engineer

DATE 6/2/99 PLATE NO. R1-1F.2



R2-1

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	450 mm X 600 mm
2	600 mm X 750 mm
3	900 mm X 1200 mm
4	900 mm X 1200 mm
5	1200 mm X 1500 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0	.28
2	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0	.46
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0	1.11
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0	1.11
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0	1.86

STANDARD SIGN
R2-1

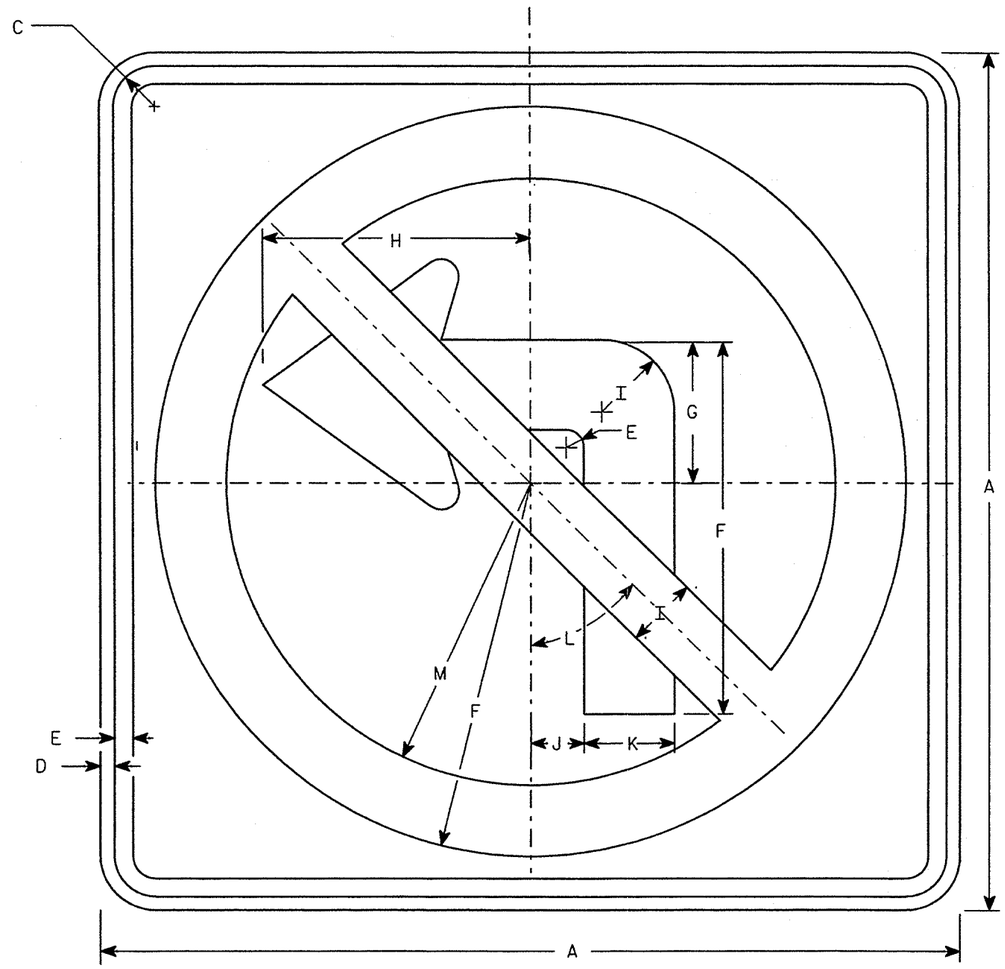
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Charles J. Sprang for State Traffic Engineer

DATE 6/4/97 PLATE NO. R2-1.10

WISDOT/CADDS METRIC SHEET M

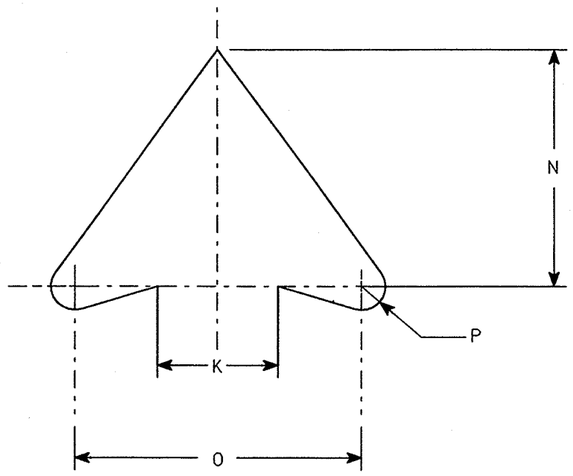
PLOT SCALE: 58.59 62.63
PLOT NAME: tr_stdplate r21.dgn
FILE NAME: LEVELS ON • 1.2 5.6 10.
ORIGINATOR: Sandy Anderson
REV. DATE: 6/4/97



R3-2

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	600 mm X 600 mm
2	600 mm X 600 mm
3	750 mm X 750 mm
4	900 mm X 900 mm
5	1200 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0	0.36
2	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0	0.36
3	30		1 3/8	1/2	5/8	13 1/8	5	9 1/2	2 1/2	1 7/8	3 1/8	45°	10 5/8	6 1/4	7 1/2	5/8											6.25	0.56
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0	0.81
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0	1.44

STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Charles J Spanje for State Traffic Engineer

DATE 11/05/97 PLATE NO. R3-2.8

WISDOT/CADDS METRIC SHEET M

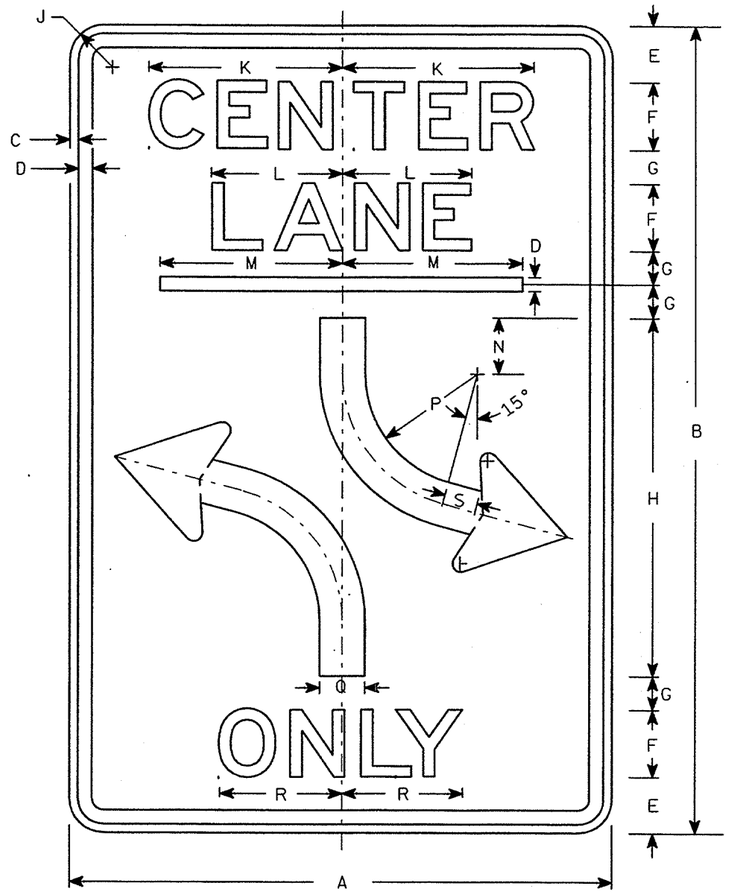
PLOT SCALE: 58.59 62.63

PLOT NAME:

REV. DATE: 11/03/97

ORIGINATOR: Sandy Anderson

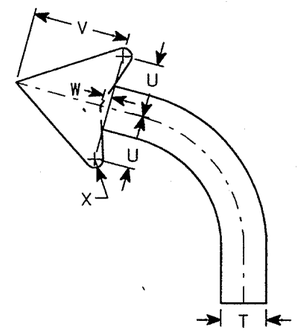
FILE NAME: tr-stdplate r32.dgn
LEVELS ON - 1,2,3, 56, 10,



R3-9B

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 900 mm
3	900 mm X 1200 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	36	1/8	1/2	2 1/2	3	1 1/2	16		1 1/2	8 1/2	5 3/4	8	2 1/2		6	2	5 1/8	1 1/2		2 3/8	4 3/8	3/8				6.0	0.54
3	36	48	5/8	7/8	3 1/2	5	1 1/2	20		2 1/4	14 1/8	9 1/2	12	3		4	3	9 7/8	2		3 1/2	6 1/8	1/2				12.0	1.08
4																												
5																												

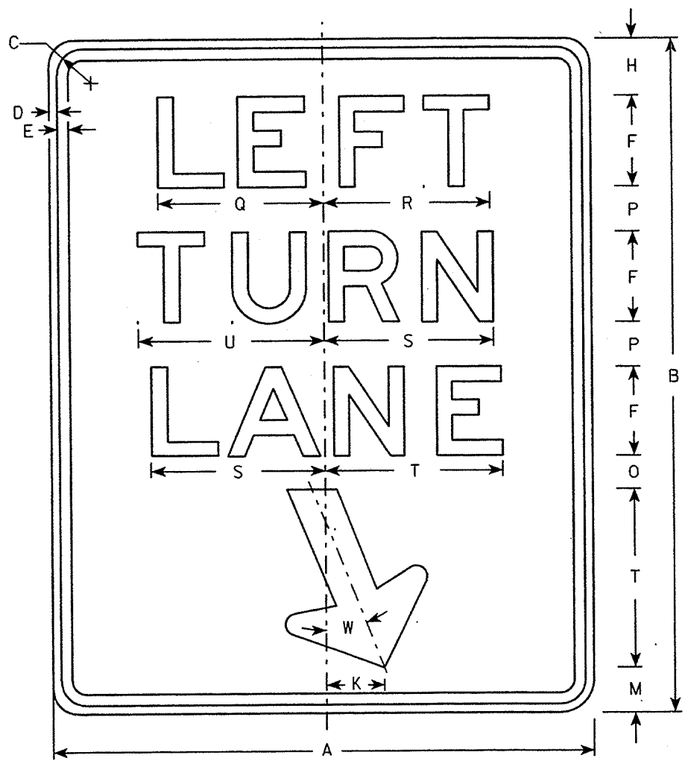
STANDARD SIGN
R3-9B

WISCONSIN DEPT OF TRANSPORTATION

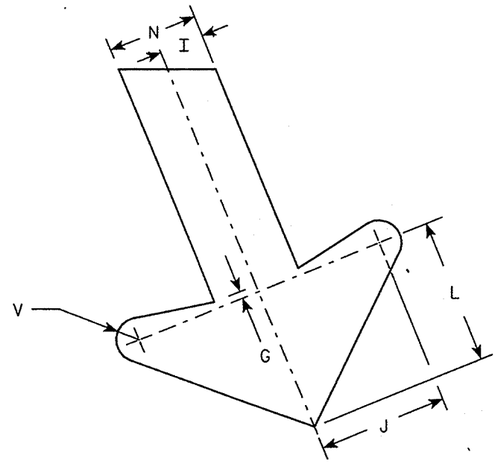
APPROVED Chester J Spang for State Traffic Engineer

DATE 7/8/98 PLATE NO. R3-9B.3

STATE PROJECT NUMBER 4984-00-97,95 | SHEET NO. 7.17



R3-55L



ARROW DETAIL

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 750 mm
3	900 mm X 1200 mm
4	
5	

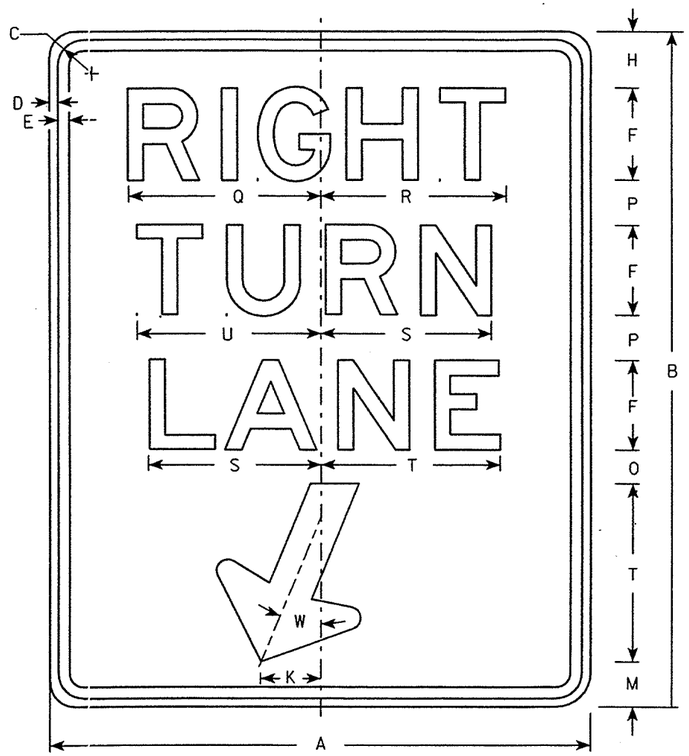
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	30	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	2	1 1/2	2	7 1/4	7 1/2	7 5/8	8	8 1/8	1/2	22°				5.0	0.45
3	36	48	1 3/4	1/2	5/8	6	3/8	4 1/4	1 1/2	4 1/4	4	4 7/8	3 1/4	3	3	3 3/4	10 7/8	11 1/4	11 1/2	12	12 1/4	3/4	22°				12.0	1.08
4																												
5																												

STANDARD SIGN
R3-55L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Charles J Spang for State Traffic Engineer

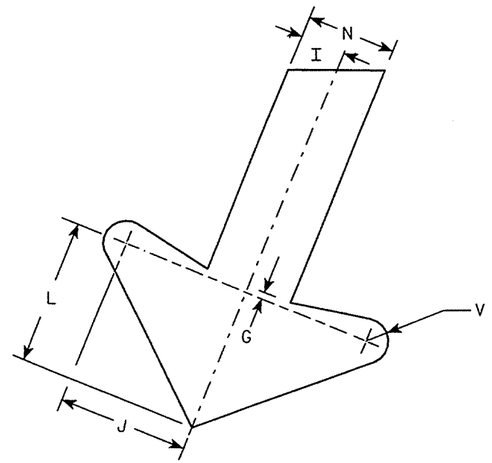
DATE 4/18/98 PLATE NO. R3-55L.4



R3-55R

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 750 mm
3	900 mm X 1200 mm
4	
5	

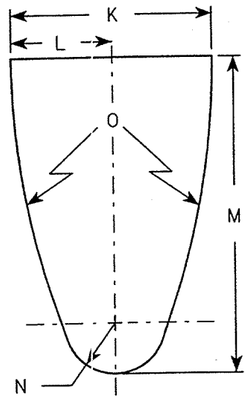
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	30	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	2	1 1/2	2	8 1/2	8 1/4	7 5/8	8	8 1/8	1/2	22°				5.0	0.45
3	36	48	1 3/4	1/2	5/8	6	3/8	4 1/4	1 1/2	4 1/4	4	4 7/8	3 1/4	3	3	3 3/4	12 3/4	12 1/2	11 1/2	12	12 1/4	3/4	22°				12.0	1.08
4																												
5																												

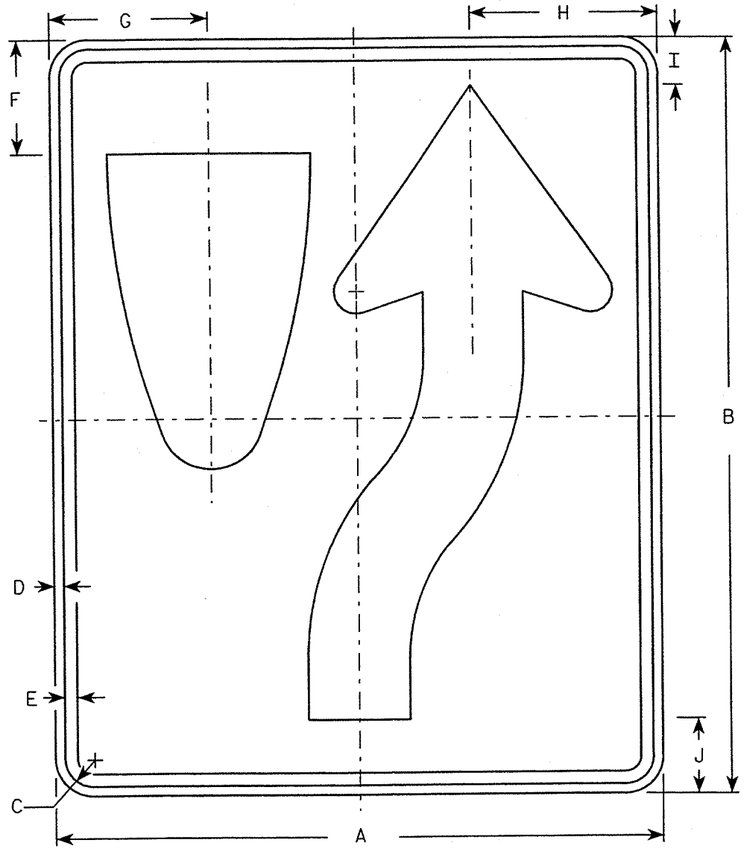
STANDARD SIGN
R3-55R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Charles J Sparr
for State Traffic Engineer

DATE 4/17/98 PLATE NO. R3-55R.4

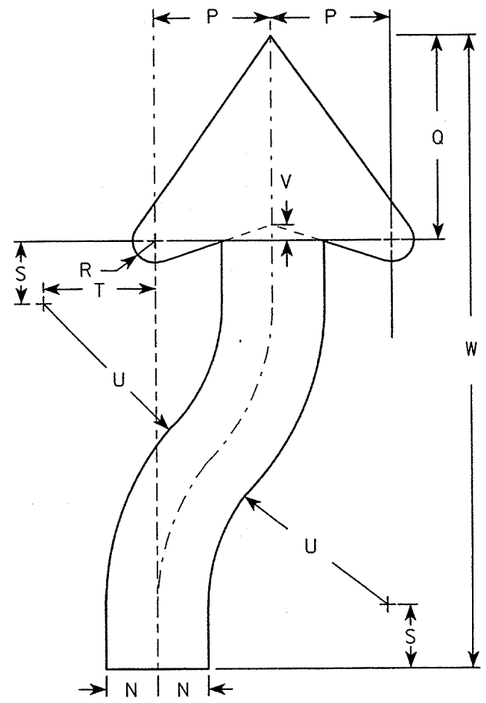




R4-7

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	450 mm X 600 mm
2	600 mm X 750 mm
3	900 mm X 1200 mm
4	900 mm X 1200 mm
5	900 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 1/8	3 1/4	6 3/4	1/2	20 3/8				3.0	.27
2	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 1/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0	.45
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0	1.08
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0	1.08
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0	1.08

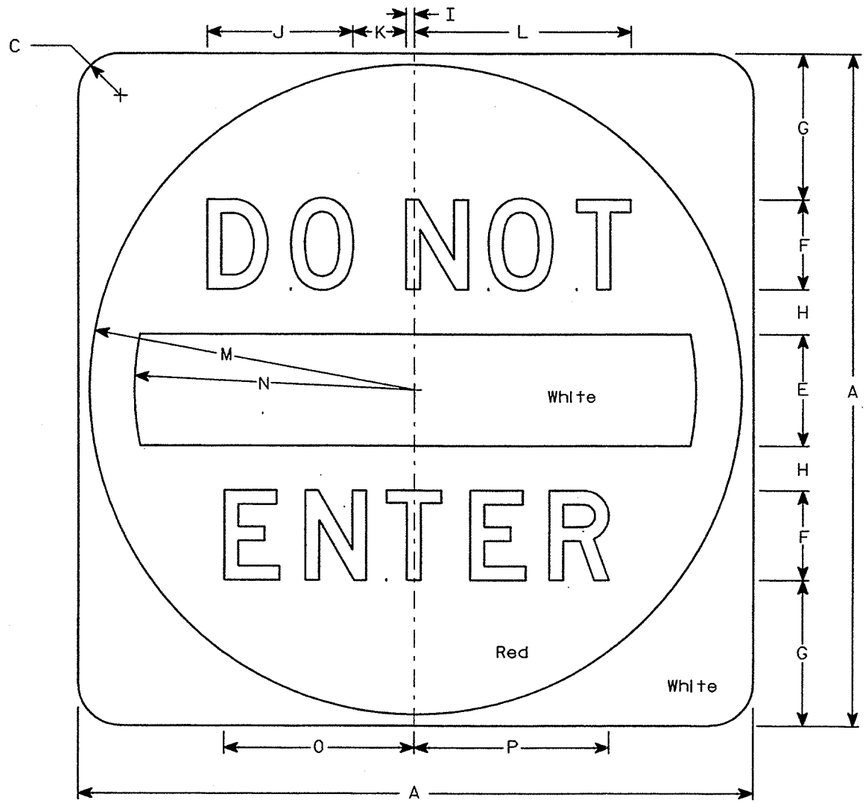
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 12/15/97 PLATE NO. R4-7.6

WISDOT/CADDS METRIC SHEET M



R5-1

NOTES

1. Sign is Type II - Reflective Type H - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - See Note 5
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.
5. Message will be reflectorized white letters.

Metric equivalent for this sign is:

SIZE	
1	
2	750 mm X 750 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	1200 mm X 1200 mm

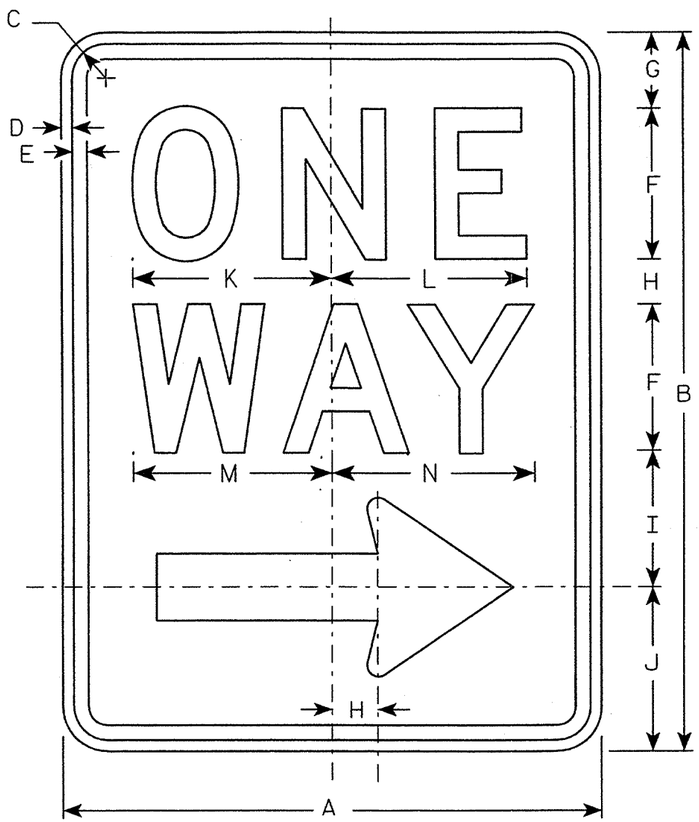
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	
1																												
2	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26	0.56
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0	0.81
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0	0.81
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0	1.44

STANDARD SIGN
R5-1

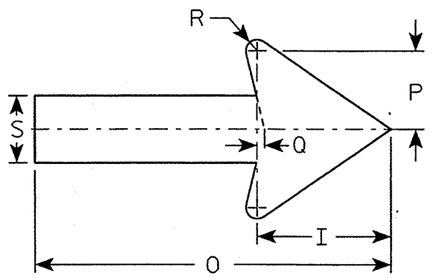
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spano
for State Traffic Engineer

DATE 4/21/98 PLATE NO. R5-1.12



R6-2R



NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.

Metric equivalent for this sign is:

SIZE	
1	
2	450 mm X 600 mm
3	600 mm X 750 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4								3.0	0.27
3	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	5 1/2	6 1/2	8 1/8	8 1/8	8 1/2	8 3/8	15 3/4	3 1/4	3/8	1/2	2 3/4								5.0	0.45
4																												
5																												

STANDARD SIGN
R6-2R&L

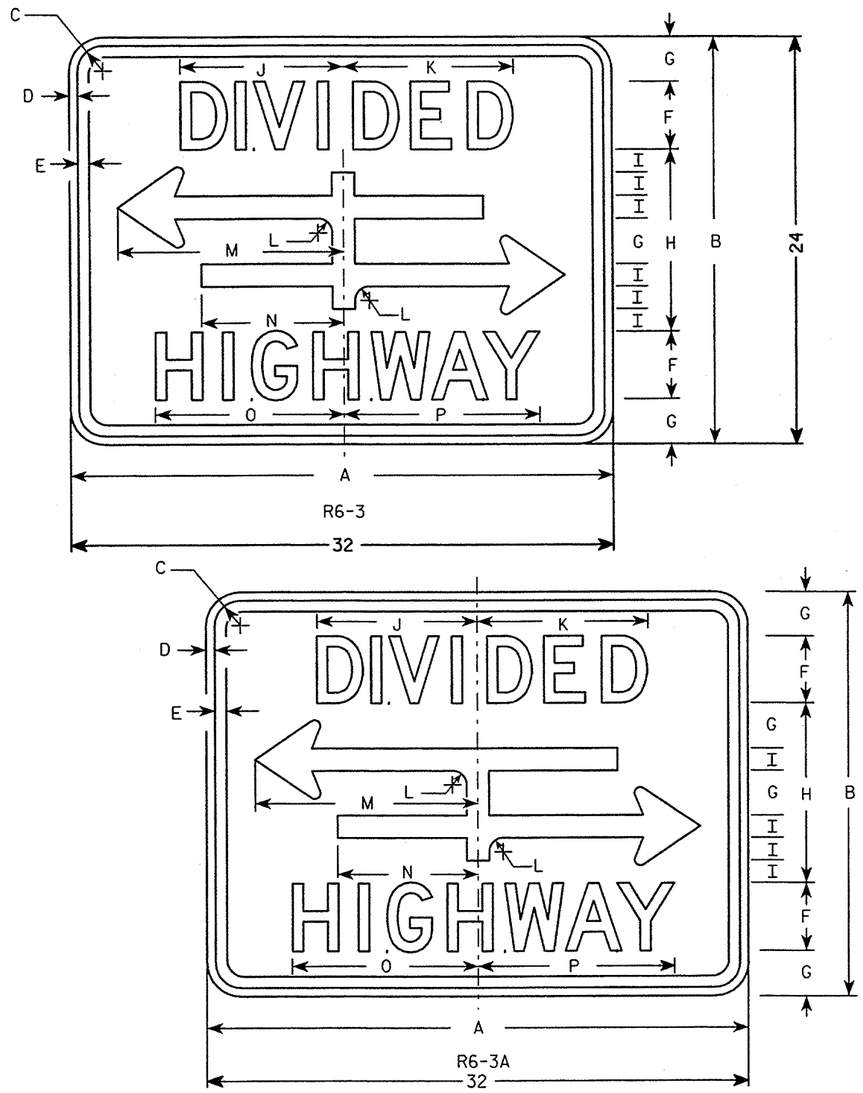
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Sprague for State Traffic Engineer

DATE 10/19/98 PLATE NO. R6-2.4

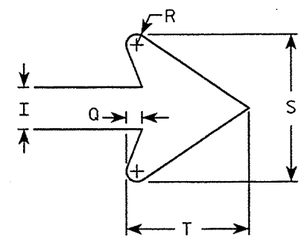
WISDOT/CADDS SHEET 42

DATE DRAWN- 10/19/98



NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	
2	600mm X 450mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	18	1 1/8	3/8	1/2	3	2	8	1	7 1/8	7 5/8	5/8	9 7/8	6 1/4	8 1/4	8 3/4	3/8	1/4	3 1/2	2 3/4							3.0	0.27
3																												
4																												
5																												

STANDARD SIGN
R6-3 & R6-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 5/5/98 PLATE NO. R6-3.3

R7-51

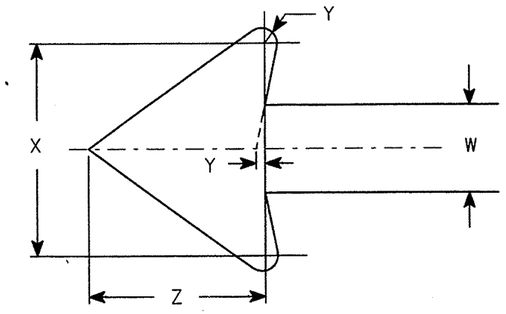
Metric equivalent for this sign is:

SIZE	
1	300 mm X 450 mm
2	450 mm X 600 mm
3	600 mm X 750 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	4 7/8	5/8	1 3/4	2 1/2	4 3/8	3 7/8	3/4	1 3/4	1/8	1 1/2	1.5	0.14
2	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 3/4	1 1/8	1 1/2	3 1/8	5 1/2	5 7/8	1 1/8	2 5/8	1/4	2 1/4	3.0	0.27
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0	0.45
4																												
5																												

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R7-51D (double arrow)
   R7-51R (right arrow)
   R7-51L (left arrow)
6. Lines 1, 3 and 4 are Series C.
   Line 2 is Series B.



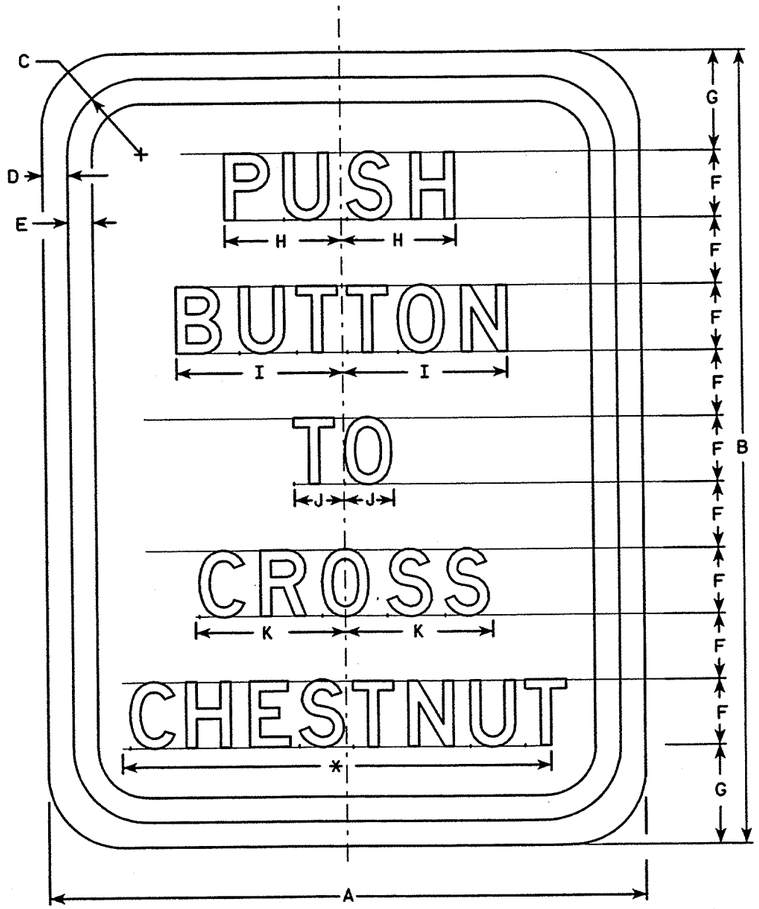
ARROW DETAIL

STANDARD SIGN
R7-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spange for State Traffic Engineer

DATE 3/24/99 PLATE NO. R7-51.4



R10-4X

* Varies

NOTES

1. Sign is Type II - Non-Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D except for Line 5 (See Note 5)
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Letter series is variable to accommodate a variable legend (street name) to stay within the 9" sign width limitation.

Metric equivalent for this sign is:

SIZE	
1	
2	225 mm X 300 mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	9	12	1 1/8	3/8	3/8	1	1 1/2	1 3/4	2 1/2	3/4	2 1/4																0.75	0.07
3																												
4																												
5																												

STANDARD SIGN
R10-4X

WISCONSIN DEPT OF TRANSPORTATION

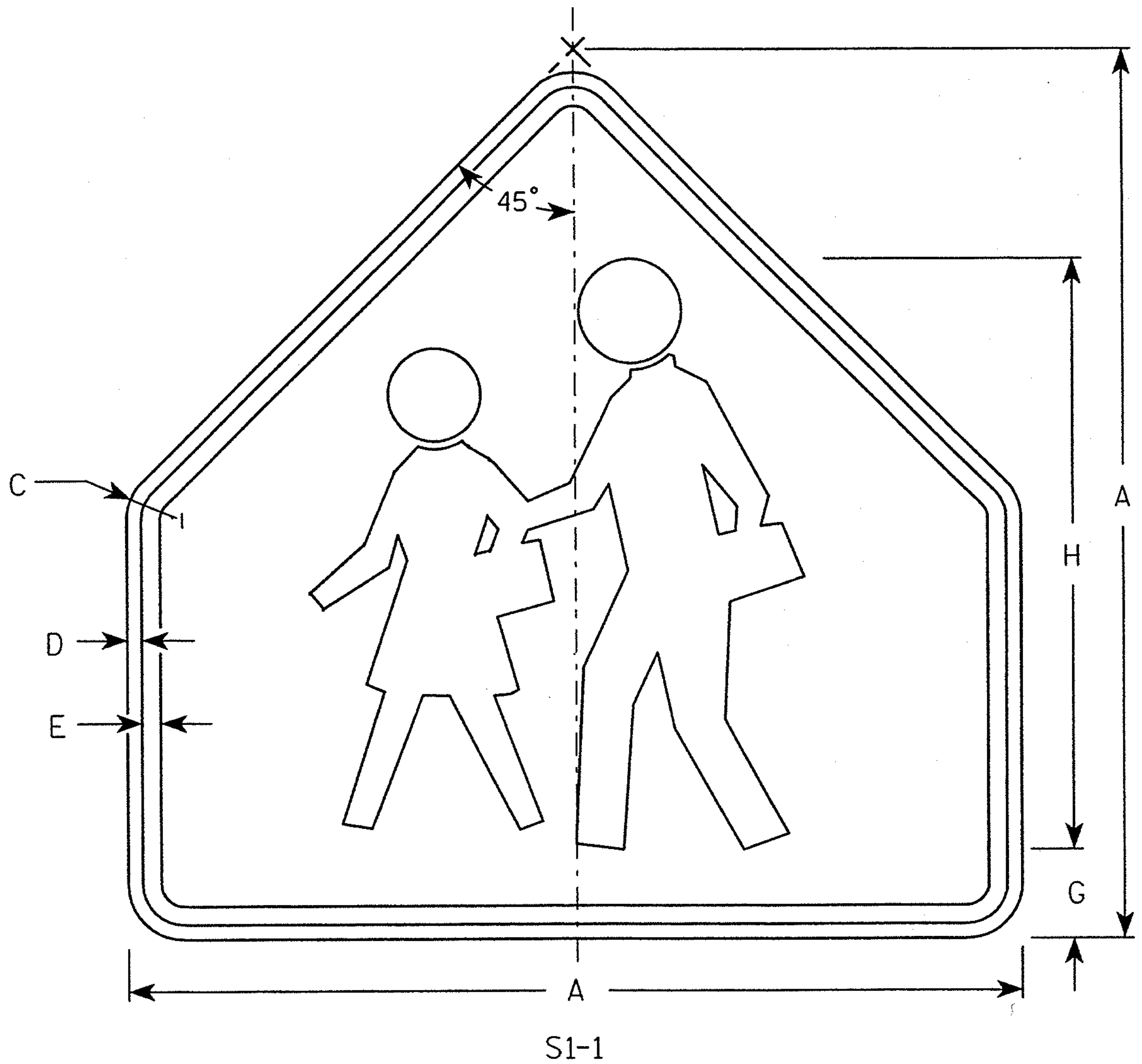
APPROVED Charles J. Spang for State Traffic Engineer

DATE 4/17/97 PLATE NO. R10-4X.2

WISDOT/CADDS METRIC SHEET M

PLOT SCALE:
PLOT NAME: 58,59,60, 63
REV. DATE: 4/15/97
ORIGINATOR: Don Kluever
FILE NAME: tr_stdplate r104x.dgn
LEVELS ON - 1,2,3, 5,6, 10,

STATE PROJECT NUMBER	SHEET NO.
4984-00-97	7.25



S1-1

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	
2	750 mm X 750 mm
3	900 mm X 900 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	30		1 3/8	1/2	5/8		3	20																			4.69	0.44
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75	0.63
4																												
5																												

STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

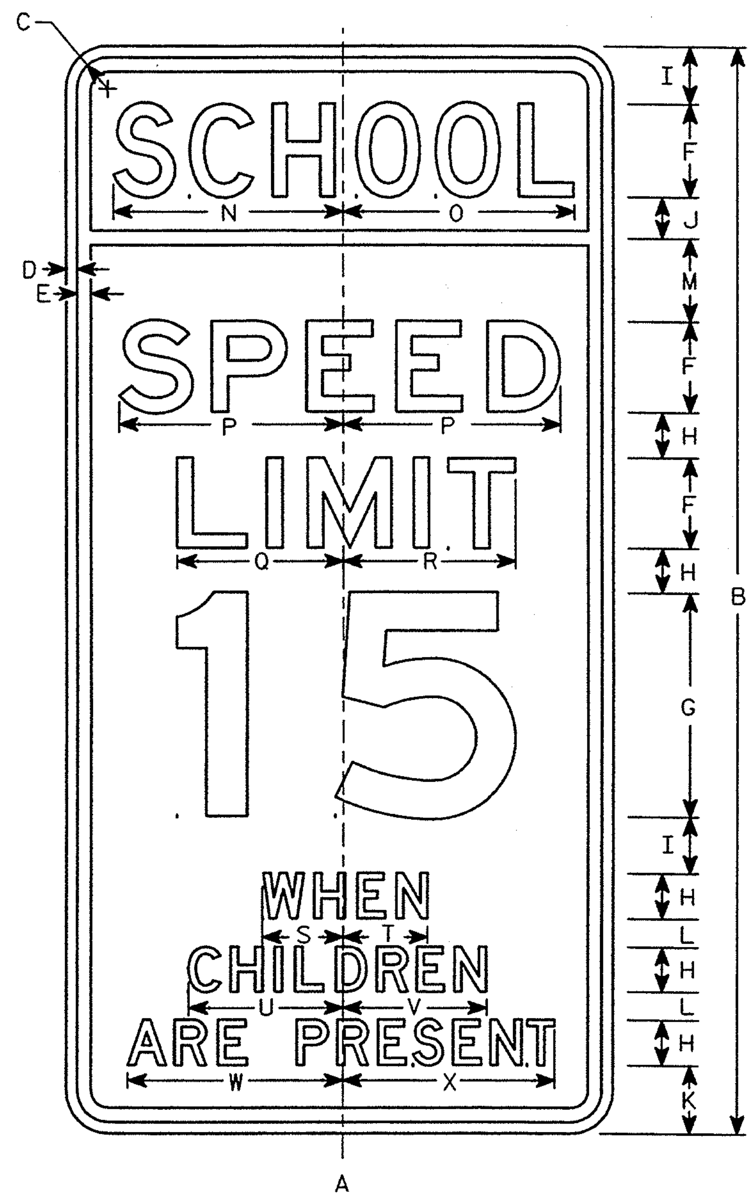
APPROVED Chester J. Spang
for State Traffic Engineer

DATE 9/1/99 PLATE NO. S1-1.6

WISDOT/CADDS SHEET 42

REV. DATE: 8/30/99 ORIGINATOR: Don Kluever FILE NAME: tr_stdplate sl.dgn PLOT SCALE: 3 :1

STATE PROJECT NUMBER	SHEET NO.
4984-00-97, 95	7.26



S4-51

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - Black
3. Message Series - See note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Top panel (SCHOOL) background - Yellow
   Lower panel background - White
6. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
7. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 1200 mm
3	
4	
5	

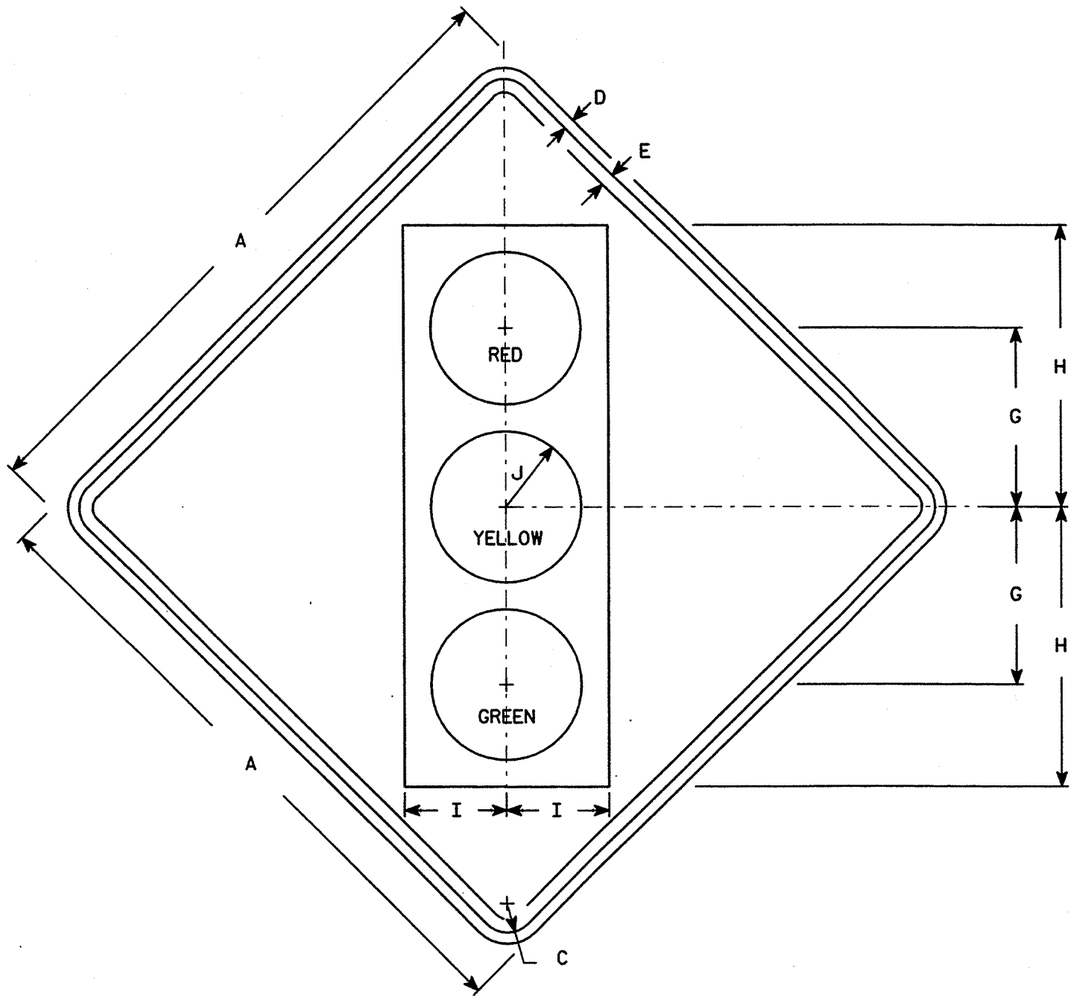
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00	0.72
3																												
4																												
5																												

STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 10/15/98 PLATE NO. S4-51.5



W3-3

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Reflectorized Red
   Center circle - Same as background
   Bottom circle - Reflectorized Green

Metric equivalent for this sign is:

SIZE	
1	750mm X 750mm
2	900mm X 900mm
3	
4	900mm X 900mm
5	1200mm X 1200mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25	0.56
2	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0	0.81
3																												
4	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0	0.81
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0	1.44

STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

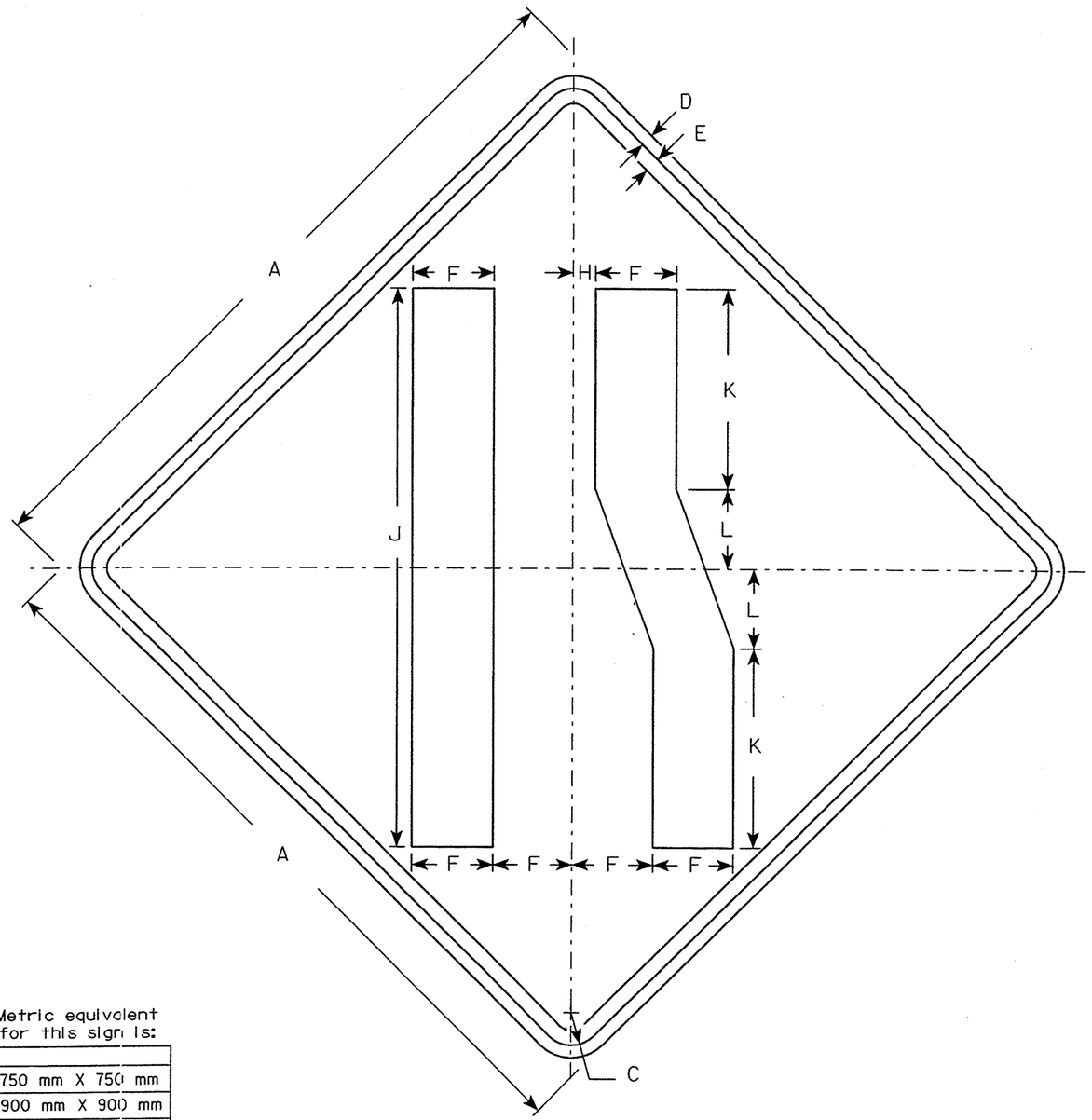
APPROVED Charles J Spang for State Traffic Engineer

DATE 4/29/97 PLATE NO. W3-3.6

WISDOT/CADDS METRIC SHEET M

PLOT SCALE:
PLOT NAME: 58,59,60, 63
FILE NAME: tr_stdplate
LEVELS ON - 2,3, 5,6, 10,
ORIGINATOR: Sandy Anderson
REV. DATE: 4/29/97

STATE PROJECT NUMBER 4984-00-95 | SHEET NO. 7.28



W4-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the arrow is reversed along the vertical centerline.

Metric equivalent for this sign is:

SIZE	
1	750 mm X 750 mm
2	900 mm X 900 mm
3	
4	900 mm X 900 mm
5	1200 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	30		1 3/8	1/2	5/8	3		7/8		23	8 1/4	3 1/4															6.25	0.56
2	36		1 5/8	5/8	3/4	4		1 1/8		28	10	4															9.0	0.81
3																												
4	36		1 5/8	5/8	3/4	4		1 1/8		28	10	4															9.0	0.81
5	48		2 1/4	3/4	1	5		1 1/2		37	13 1/4	5 1/4															16.0	1.44

STANDARD SIGN
W4-2

WISCONSIN DEPT OF TRANSPORTATION

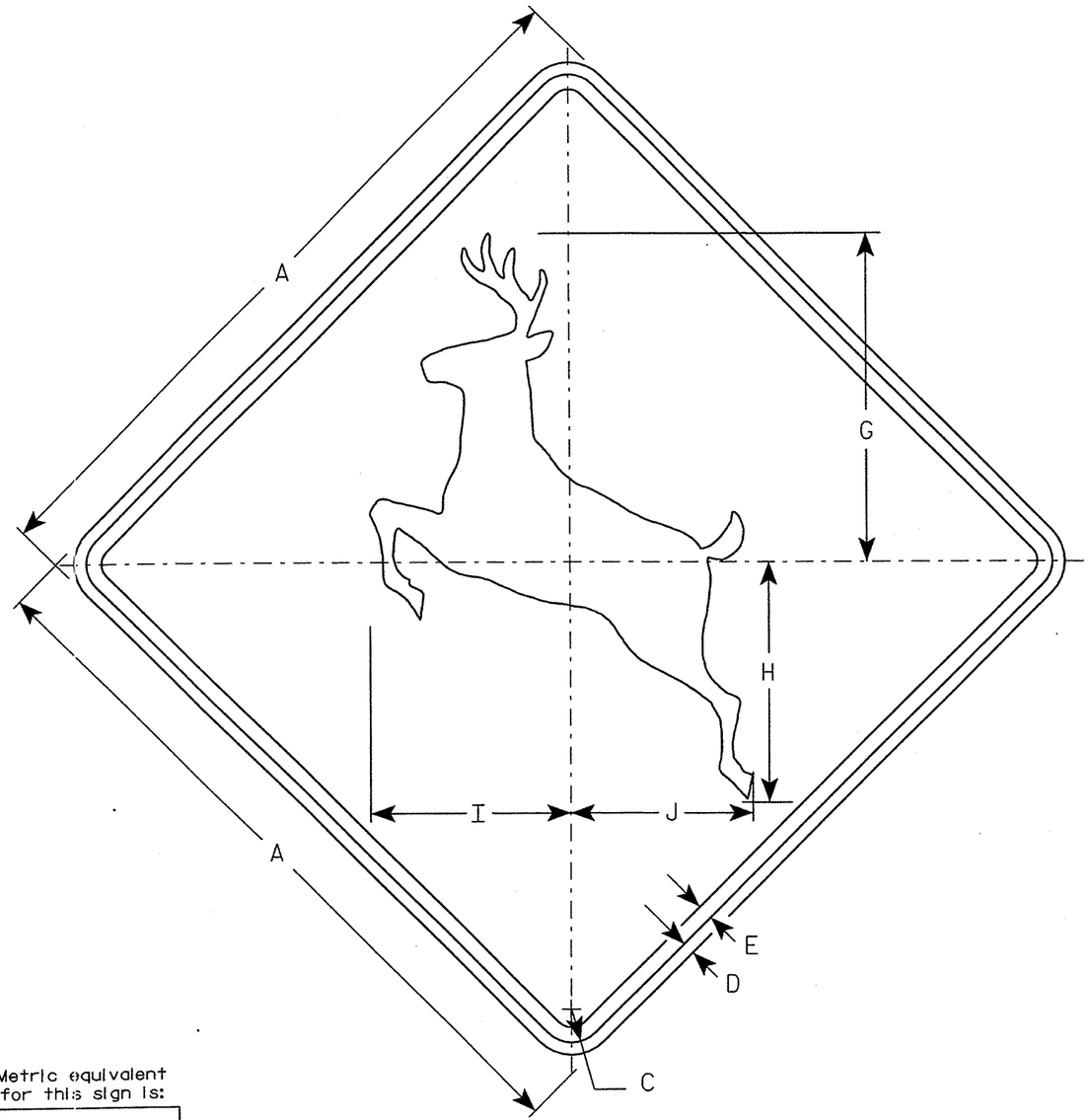
APPROVED Chester J. Sprague for State Traffic Engineer

DATE 7/7/97 PLATE NO. W4-2.9

WISDOT/CADDS METRIC SHEET M

PLOT SCALE: 63
PLOT NAME: 58,59,60,
FILE NAME: tr_stdplate w42.dgn
LEVELS ON - 2,3, 5,6, 10,
ORIGINATOR: Don Kluever
REV. DATE: 7/7/97

STATE PROJECT NUMBER 4984-00-95
SHEET NO. 7.29



W11-3

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	600 mm X 600 mm
2	750 mm X 750 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	1200 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	24		1 1/8	3/8	1/2		10 5/8	7 5/8	6 1/2	5 7/8																	4.0	0.36
2	30		1 3/8	1/2	5/8		13 5/8	10	8 1/4	7 1/2																	6.25	0.56
3	36		1 5/8	5/8	3/4		16 1/4	12	9 7/8	9																	9.0	0.81
4	36		1 5/8	5/8	3/4		16 1/4	12	9 7/8	9																	9.0	0.81
5	48		2 1/4	3/4	1		21 1/4	15 3/4	13	11 3/4																	16.0	1.44

STANDARD SIGN
W11-3

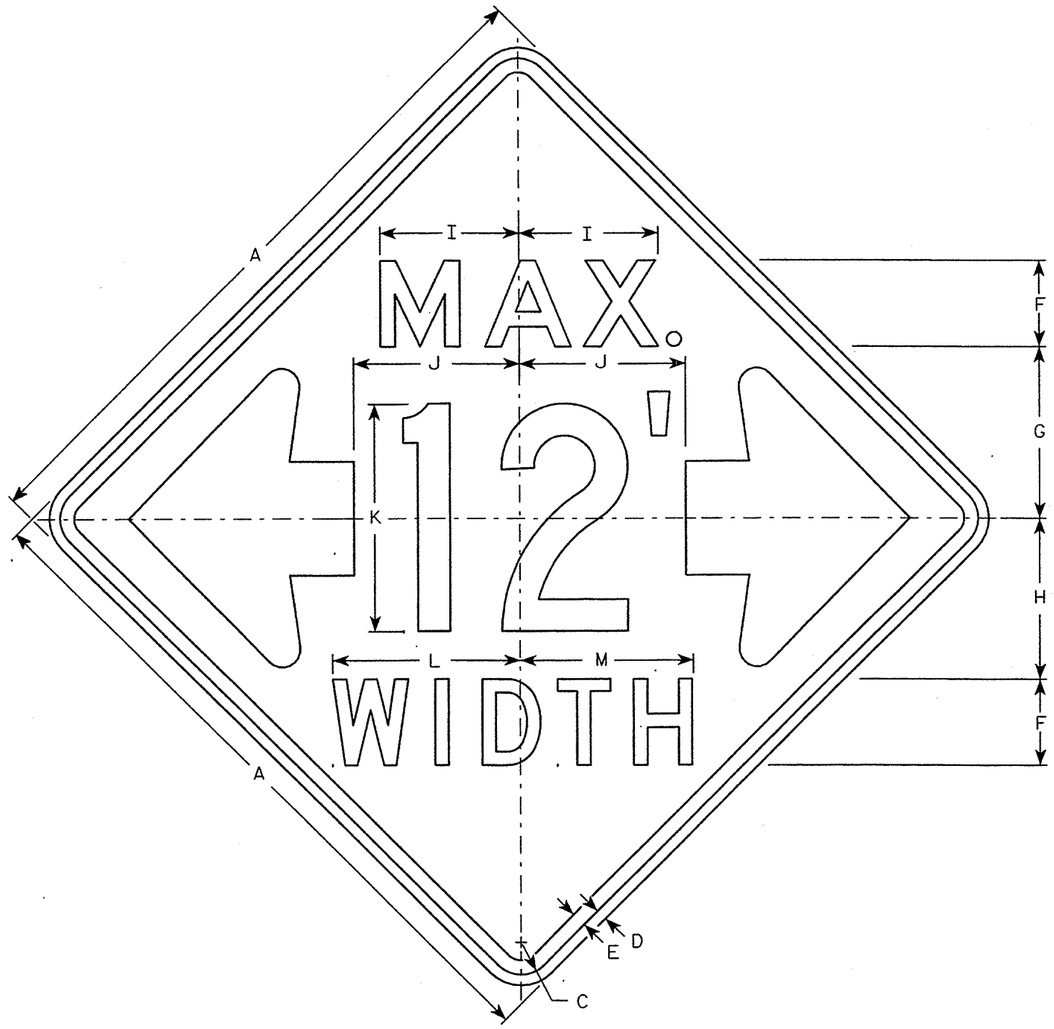
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 10/10/97 PLATE NO. W11-3.4

WISDOT/CADDS METRIC SHEET M

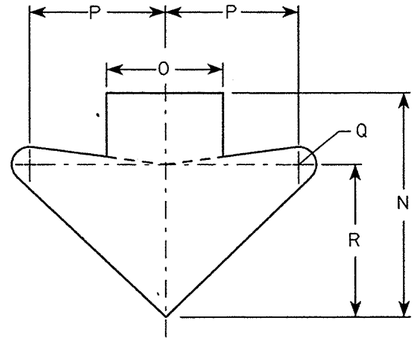
PLOT SCALE:
PLOT NAME:
REV. DATE: 10/09/97
ORIGINATOR: Don Kluever
FILE NAME: tr_stdplate w113.dgn
LEVELS ON • 2,3, 5,6, 10,
58,59,62, 63



W12-52

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	
2	1200 mm X 1200 mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0	1.44
3																												
4																												
5																												

STANDARD SIGN
W12-52

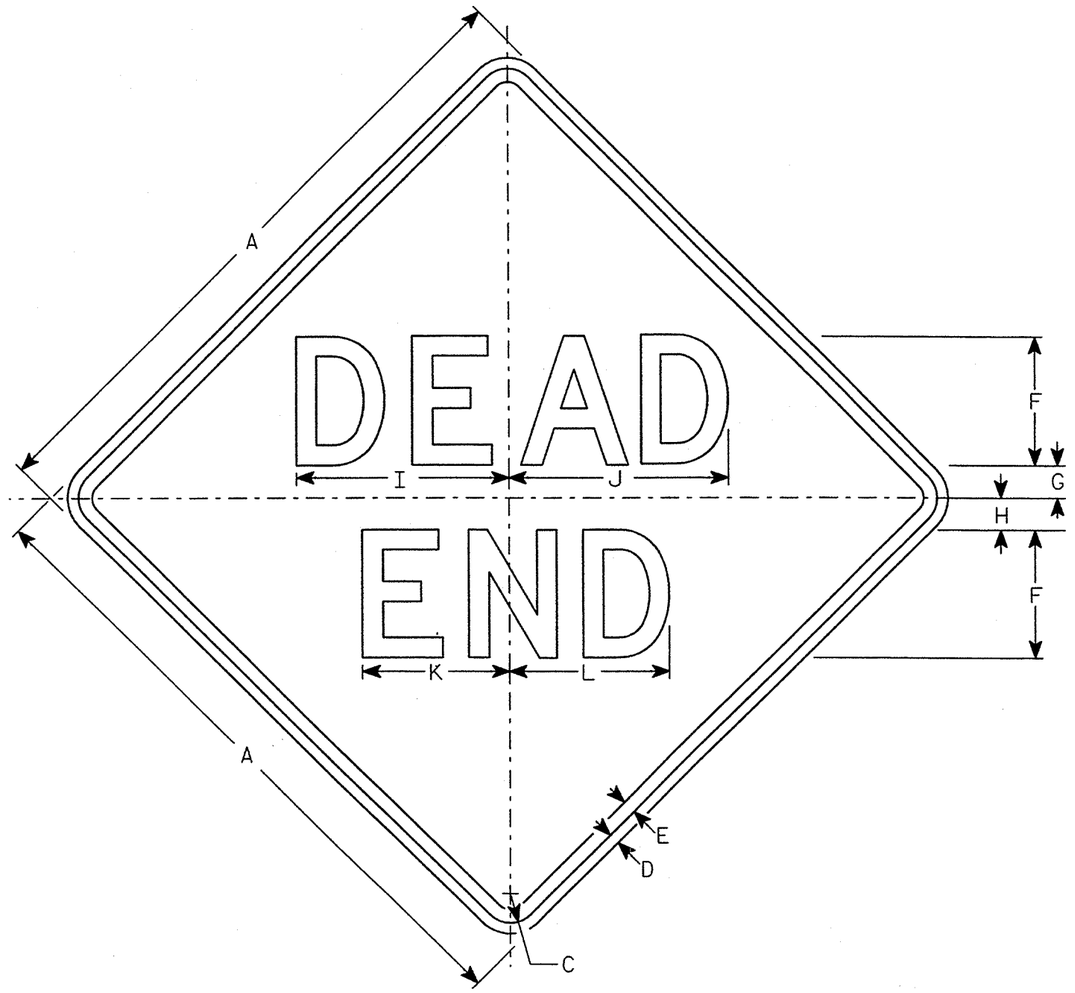
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Charles J Spang for State Traffic Engineer

DATE 10/30/97 PLATE NO. W12-52.5

WISDOT/CADDS METRIC SHEET M

PLOT SCALE:
PLOT NAME: 58,59,60,63
FILE NAME: tr_stdplate w1252.dgn
LEVELS ON - 23, 56, 10,
ORIGINATOR: Sandy Anderson
REV. DATE: 10/27/97



W14-1

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	600 mm X 600 mm
2	750 mm X 750 mm
3	900 mm X 900 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	24		1 1/8	3/8	1/2	5	1	2	8 1/4	8 5/8	5 5/8	6 1/4															4.0	0.36
2	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25	0.56
3	36		1 5/8	5/8	3/4	7	2	3	11 3/8	12	7 7/8	8 3/4															9.0	0.81
4																												
5																												

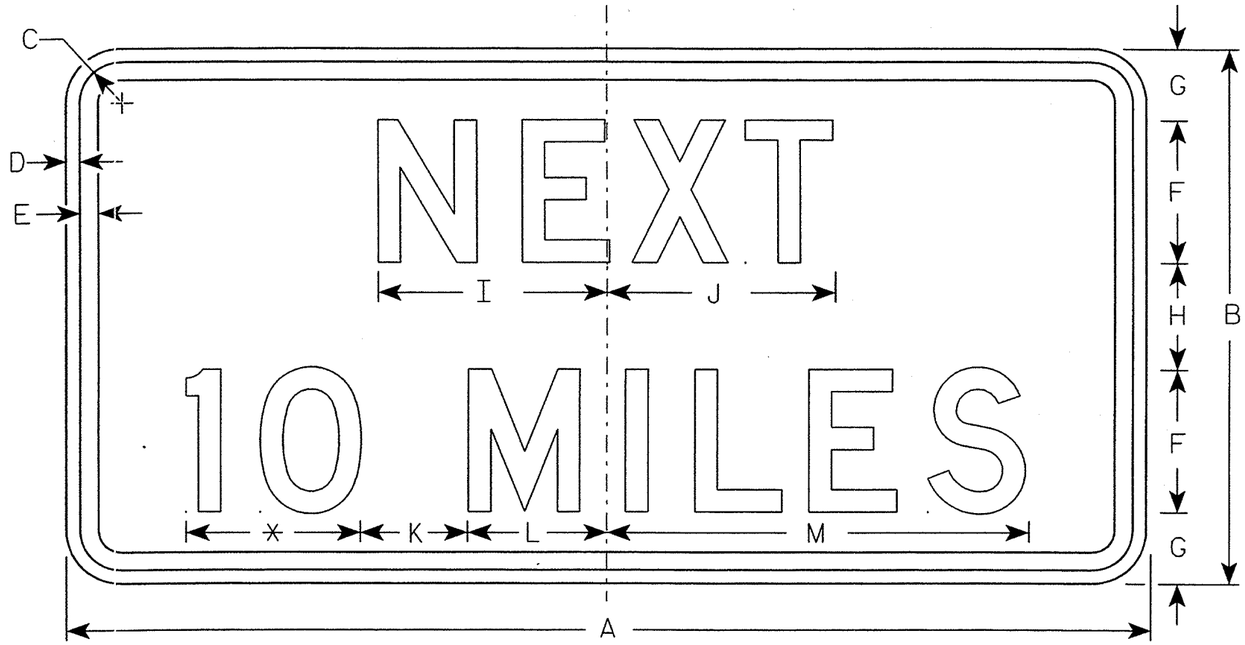
STANDARD SIGN
W14-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Sprague for State Traffic Engineer

DATE 12/23/97 PLATE NO. W14-14

WISDOT/CADDS METRIC SHEET M



W57-51

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	600 mm X 300 mm
2	750 mm X 375 mm
3	900 mm X 450 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	24	12	1 1/8	3/8	3/8	3	1 3/4	2 1/2	5	5 1/8	3	2 3/4	9 5/8														2.0	0.18
2	30	15	1 1/8	3/8	1/2	4	2	3	6 3/8	6 3/8	3	3 7/8	11 3/4														3.13	0.28
3	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5	0.41
4	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0	0.72
5	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0	0.72

* See note 5

STANDARD SIGN
W57-51

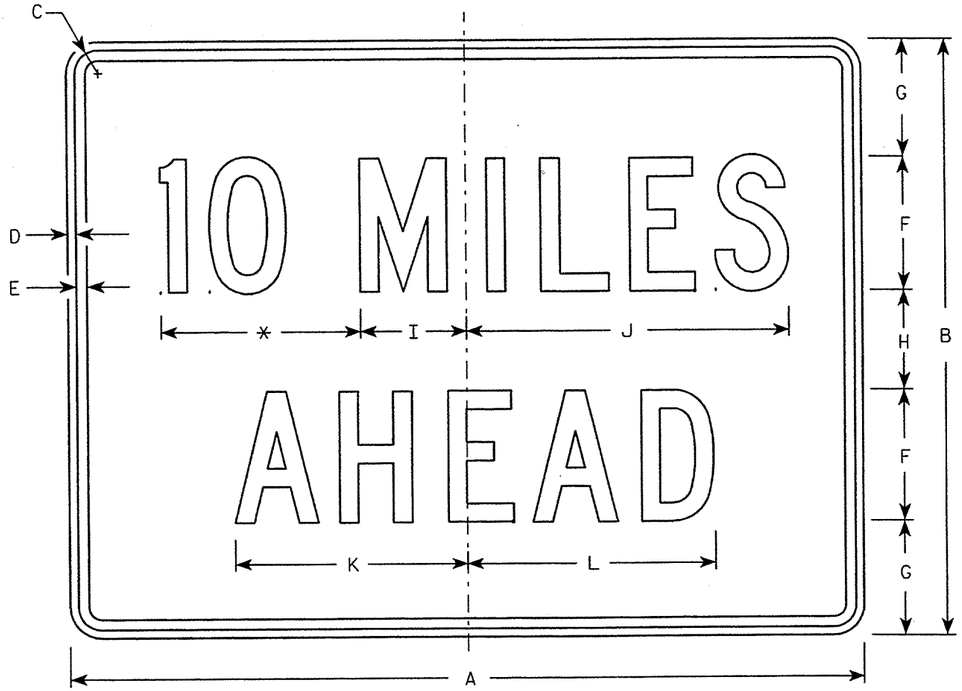
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Charles J Sprague for State Traffic Engineer

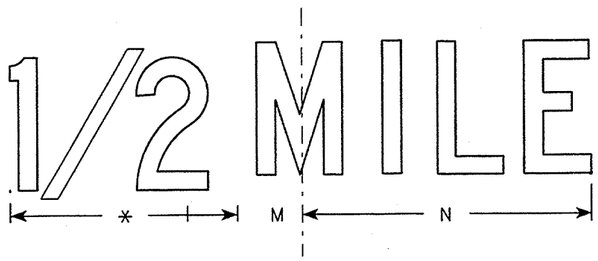
DATE 7/28/97 PLATE NO. W57-51.6

WISDOT/CADDS METRIC SHEET M

PLOT SCALE: 63
PLOT NAME: 56,59,60,
FILE NAME: tr-stdplate w5751.dgn
LEVELS ON • 2,3, 5,6 10,
ORIGINATOR: Don Kluever
REV. DATE: 7/25/97



W57-52



* See note 5

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	600 mm X 450 mm
2	900 mm X 600 mm
3	900 mm X 600 mm
4	1200 mm X 900 mm
5	1200 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	24	18	1 1/8	3/8	1/2	4	3 1/2	3	3 1/8	9 3/4	7	7 1/2	1 3/8	8 3/4													3.0	0.27
2	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	13													6.0	0.54
3	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	13													6.0	0.54
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0	1.08
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0	1.08

STANDARD SIGN
W57-52

WISCONSIN DEPT OF TRANSPORTATION

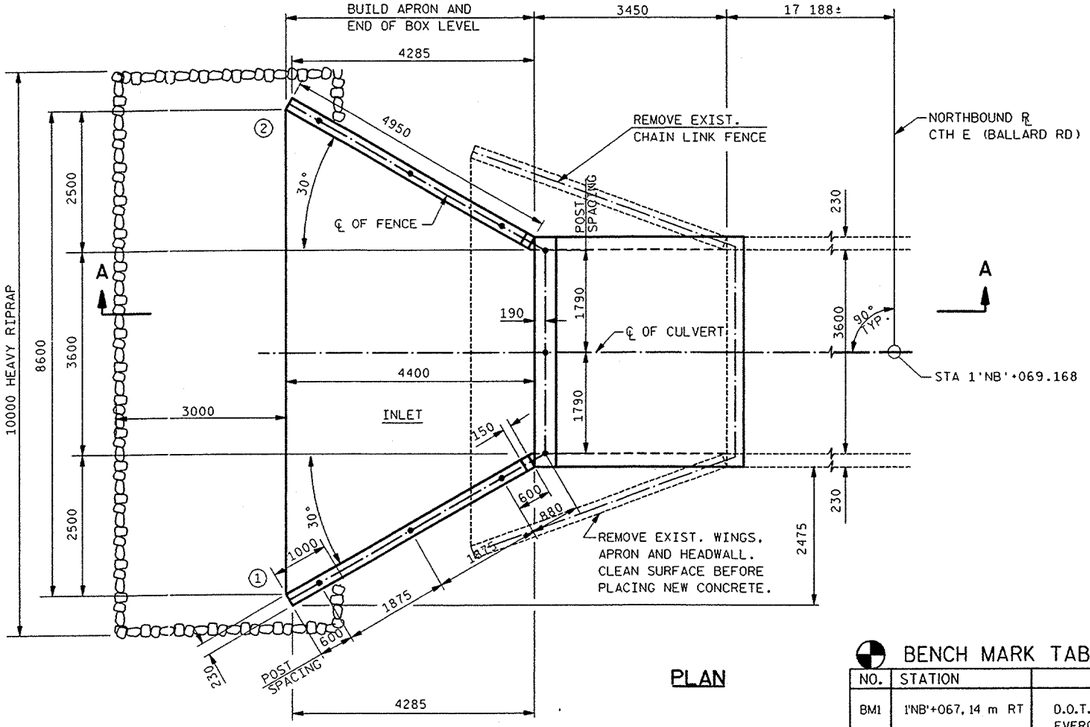
APPROVED Chester J Spagg
for State Traffic Engineer

DATE 4/16/97 PLATE NO. W57-52.4

WISDOT/CADDS METRIC SHEET M

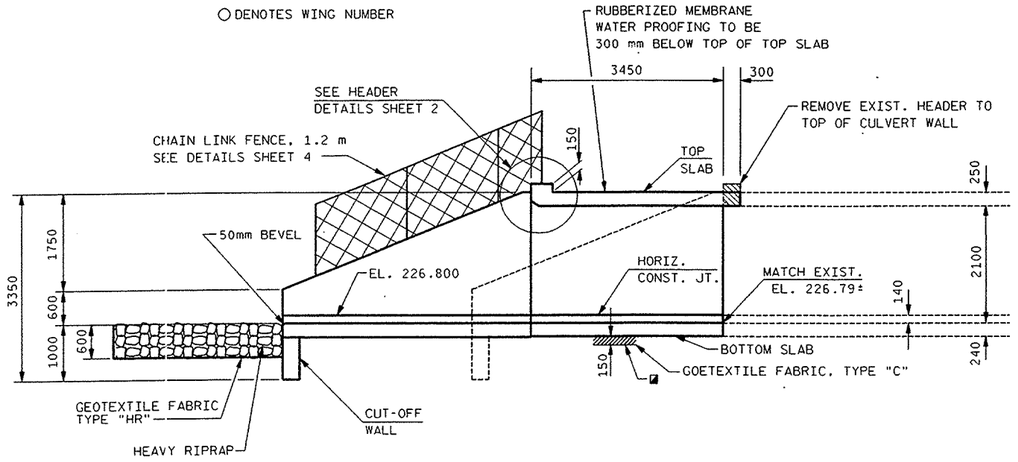
PLOT SCALE: 2.6 :1
PLOT NAME: 58.59.60. 63
FILE NAME: tr_stdplate w5752.dgn
LEVELS ON - 23, 56, 10,
ORIGINATOR: Sandy Anderson
REV. DATE: 4/16/97

STATE PROJECT NUMBER	SHEET NO.
4984-00-97	8.1



PLAN

○ DENOTES WING NUMBER



SECTION A

■ STRUCTURE BACKFILL UNDER BOX & APRON. COST INCIDENTAL TO EXCAVATION FOR STRUCTURES.

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM1	1'NB'+067.14 m RT	D.O.T. CAP ON EAST END OF BOX CULVERT AT EVERGREEN ROAD	229.228

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL SHALL BE EMBEDDED 50mm CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION WITHIN THE LENGTH OF THE BOX. COST INCIDENTAL TO EXCAVATION FOR STRUCTURES.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

ALL DIMENSIONS ARE IN MILLIMETERS

GEOTEXTILE FABRIC, TYPE 'C' IS TO BE PLACED IN BOTTOM OF EXCAVATION UNDER BARREL & APRONS. EXTEND 600mm OUTSIDE LIMITS OF CULVERT.

AT AREAS OF NEW TO EXISTING CONCRETE CONTACT, ROUGHEN SURFACE OF EXISTING CONCRETE 6 mm DEEP MINIMUM AND CLEAN SURFACE BEFORE PLACING NEW CONCRETE.

DESIGN DATA

LIVE LOAD: MS18

EARTH LOAD: DESIGNED FOR 500mm OF FILL

STRENGTH DESIGN METHOD:

CONCRETE MASONRY —— f'_c = 24 MPa

HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 420 MPa

TRAFFIC VOLUME

C.T.H. 'E'

ADT = 20.750 (2020)

RDS = 65 kph

HYDRAULIC DATA

FROM ORIGINAL STRUCTURE PLANS

Q_{100} —— 21.1 m^3/s

VELOCITY —— 3.1 m/s

HIGH WATER —— EL. 229.4

DRAINAGE AREA —— 5.18 sq. Km

OVERTOPPING RDWY —— N.A.

BRIDGE OFFICE CONTACT

GERRY ANDERSON (608) 266-8488

LIST OF DRAWINGS

1. GENERAL PLAN
2. BARREL DETAILS
3. APRON AND WING DETAILS
4. FENCE DETAILS

TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	TOTAL
REMOVING OLD CULVERT, STA. 1'NB'+069	L.S.	1
EXCAVATION FOR STRUCTURES, CULVERTS C-44-84	L.S.	1
CONCRETE MASONRY, CULVERTS	m^3	23
HIGH STRENGTH BAR STEEL REINFORCEMENT, CULVERTS	kg	1 465
GEOTEXTILE FABRIC, TYPE 'C'	m^2	56
CONCRETE MASONRY ANCHORS, TYPE L, NO. 15M BARS	EACH	41
CHAIN LINK FENCE, 1.2 m	m	13
HEAVY RIPRAP	m^3	20
GEOTEXTILE FABRIC, TYPE HR	m^2	44
RUBBERIZED MEMBRANE WATERPROOFING	m^2	20
NON-BID ITEMS		
FILLER	SIZE	19 mm

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE C-44-84

C.T.H. "E" OVER APPLE CREEK TRIB.

COUNTY	CITY		
OUTAGAMIE	APPLETON		
DESIGN SPEC. AASHTO 1996	LOAD MS18	CONST. SPEC. 1996	
DESIGNED BY JAW	DESIGN CK'D. BJG	DRAWN BY DPP	PLANS CK'D. JAW

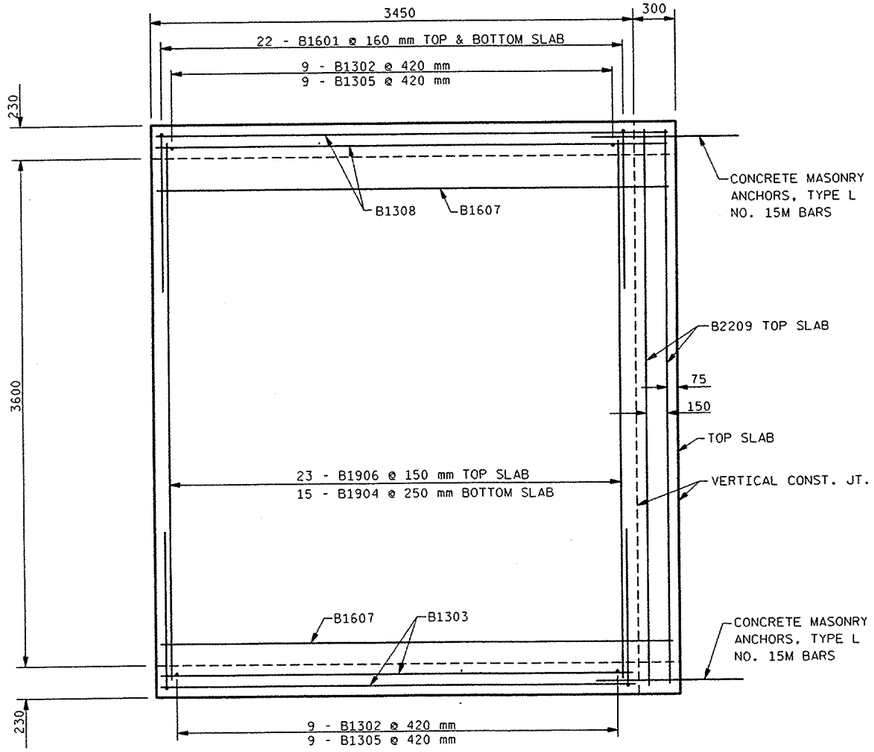
APPROVED K H Anderson 01-14-00
CHIEF STRUCTURAL DESIGN ENGINEER DATE

GENERAL PLAN

SHEET 1 OF 4

FILE NAME: E1339A98/STRUCT / /PLAN01.2DG TECH/ENGR: DPP/JAW PLOT DATE: 08/01/98
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME
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	SHEET NO.
4984-00-97	8.2



PLAN VIEW OF EXTENSION

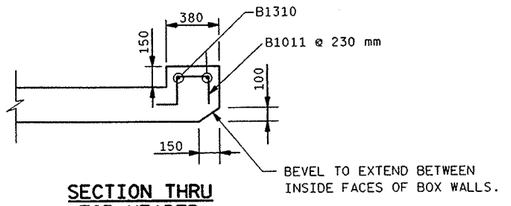
APRON AND HEADER ARE NOT SHOWN.

N

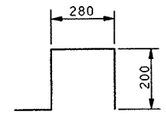
BILL OF BARS

THE FIRST TWO DIGITS OF THE MARK SIGNIFY THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR.

MARK	NUMBER REQ-D	LENGTH	BENT	LOCATION
B1601	88	2550	1050	CORNERS
B1302	18	650	NO	BOTTOM SLAB - DOWELS
B1303	24	3400	NO	LONGITUDINAL
B1904	15	3850	NO	BOTTOM SLAB - TRANSVERSE
B1305	18	2100	NO	SIDE WALLS - VERTICAL
B1906	23	3850	NO	TOP SLAB - TRANSVERSE
B1607	12	3650	NO	TOP SLAB - LONGITUDINAL
B1308	6	3650	NO	TOP SLAB - LONGITUDINAL
B2209	2	3850	NO	TOP SLAB - TRANSVERSE
B1310	2	3950	NO	HEADER
B1011	18	800	YES	HEADER
B1612	41	1050	NO	VERTICAL CONSTRUCTION JOINT

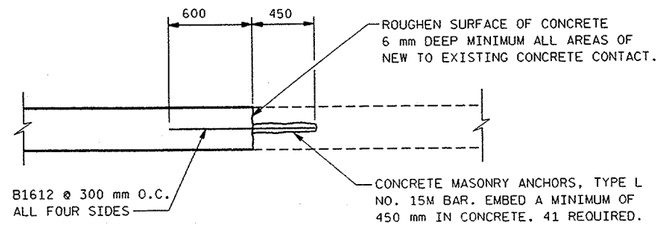


SECTION THRU TOP HEADER

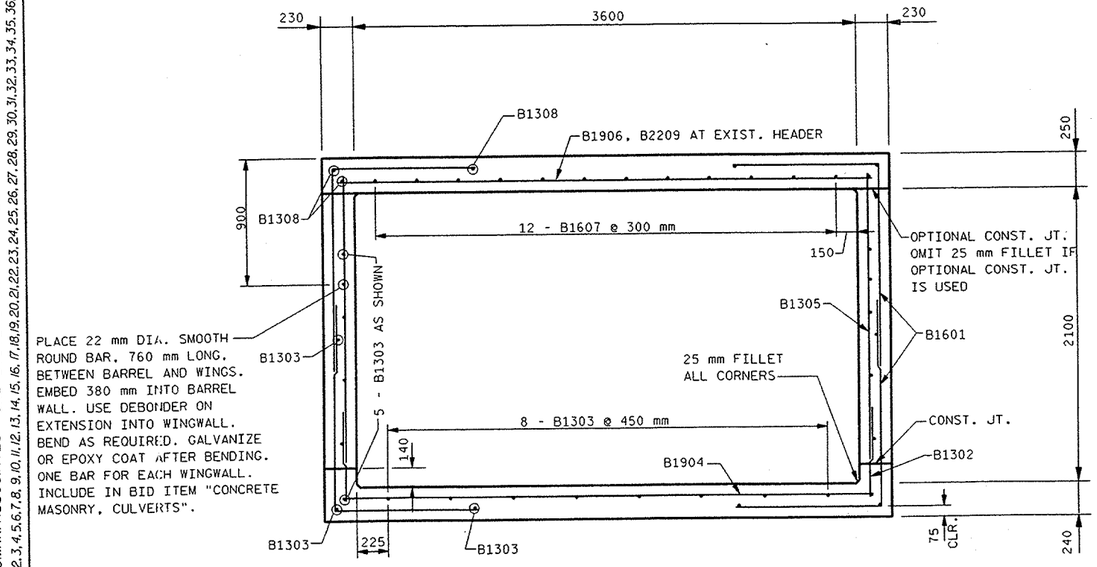


B1011

BAR BENDING DIAGRAMS



VERTICAL CONSTRUCTION JOINT



TYPICAL SECTION THRU BOX

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

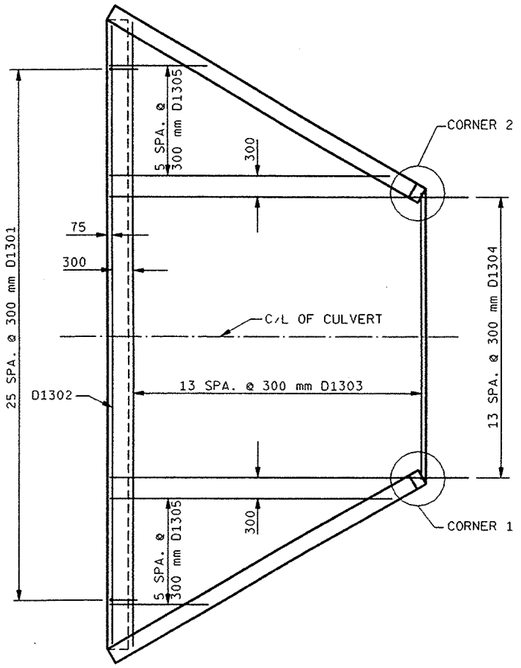
STRUCTURE C-44-84

CONST. SPEC.	1996	DRAWN BY	DPP	PLANS CK'D.	JAW

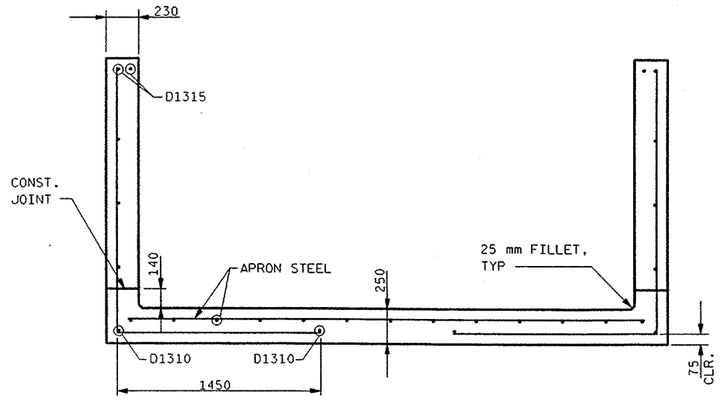
BARREL DETAILS

SHEET 2 OF 4

STATE PROJECT NUMBER	SHEET NO.
4984-00-97	8.3



APRON DETAIL



SECTION THRU WINGS
AT RIGHT ANGLES TO WING WALLS

BILL OF BARS

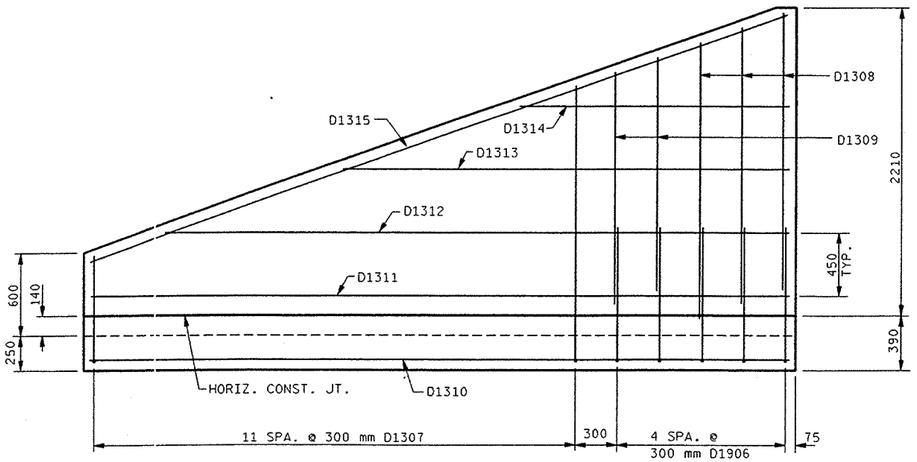
THE FIRST TWO DIGITS OF THE MARK SIGNIFY THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR.

MARK	NUMBER REQ-D	LENGTH	BENT	BAR SERIES	LOCATION
D1301	26	1150	300		CUT-OFF WALL
D1302	4	8700			CUT-OFF WALL
D1303	14	6300		Δ	APRON
D1304	14	5050			APRON
D1305	12	2550		Δ	APRON
D1906	10	2400	1450		WING VERTICAL
D1307	24	2825	1450	Δ	WING VERTICAL
D1308	6	2000			WING VERTICAL
D1309	4	1650			WING VERTICAL
D1310	4	4950			WING HORIZ. APRON
D1311	2	4850			WING HORIZ.
D1312	2	4450			WING HORIZ.
D1313	2	3150			WING HORIZ.
D1314	2	1950			WING HORIZ.
D1315	4	5150			WING HORIZ.

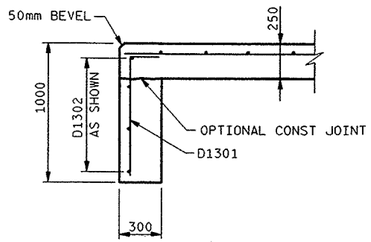
Δ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

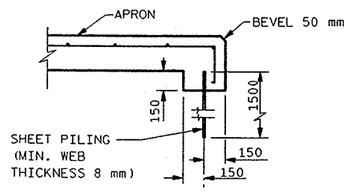
MARK	NO. REQ'D.	LENGTH
D1303	1 SERIES OF 14	4050 TO 8550
D1305	2 SERIES OF 6	3850 TO 1250
D1307	2 SERIES OF 12	2150 TO 3500



WING 1 & 2

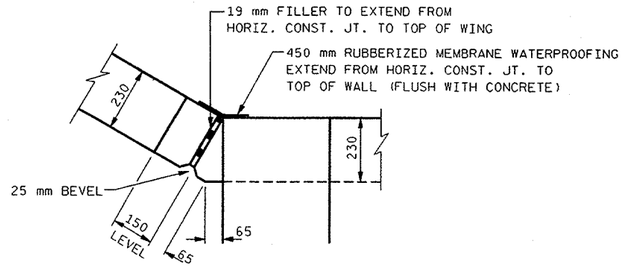


CUT-OFF WALL
SECTION THRU THE WALL



ALTERNATE CUT - OFF WALL

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT- OFF WALL. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALL.



CORNER 2
CORNER 1 IS A MIRROR IMAGE OF CORNER 2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE C-44-84

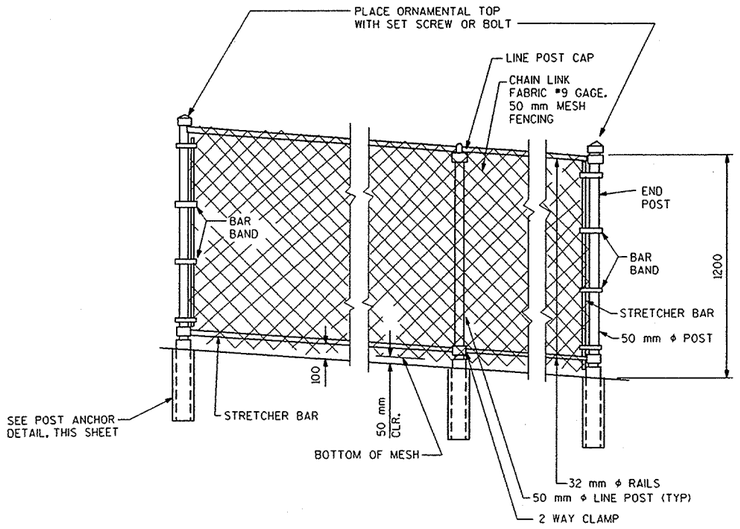
CONST. SPEC.	DRAWN BY	PLANS CK'D.
1996	DPP	JAW

APRON AND WING DETAILS

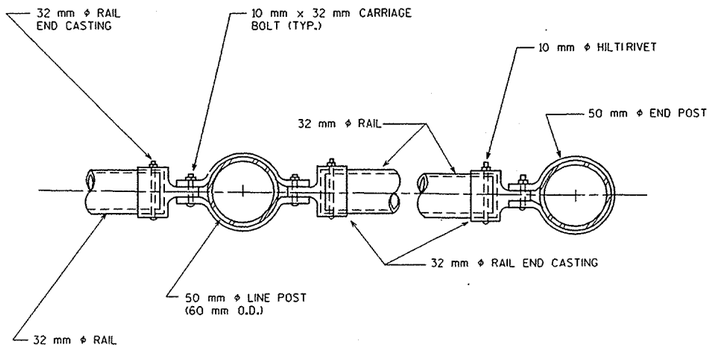
SHEET 3 OF 4

FILE NAME: E1339A98/STRUCT / /STDETO2 .2DG TECH/ENGR: DPP/JAW
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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
PLOT DATE: / /98 PLOT NAME: SEE FILE NAME

STATE PROJECT NUMBER	SHEET NO.
4984-00-97	8.4



ELEVATION OF FENCE



2 WAY CLAMP *

END CLAMP

PLAN OF RAILING

NOTE: PLACE ALL NUTS ON OUTSIDE OF FENCE.

* ALTERNATE BOULEVARD 2-WAY CLAMP MAY BE USED.

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS.

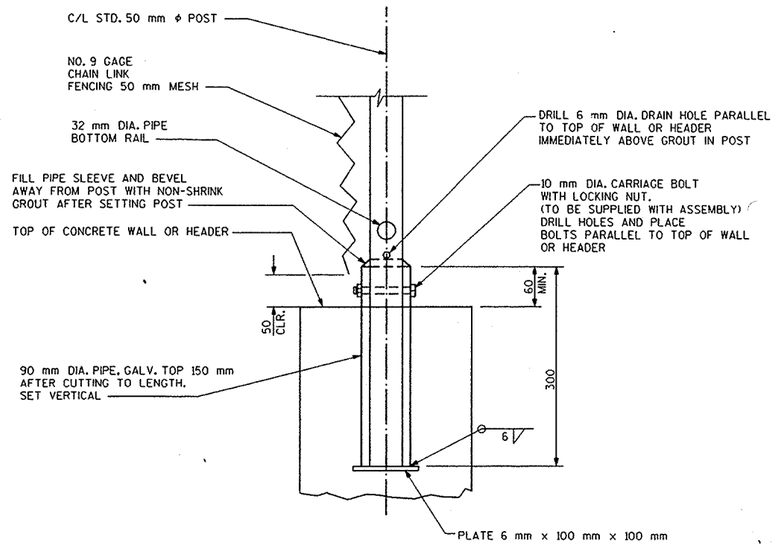
ALL POSTS TO BE SET VERTICAL.

ALL FENCING COMPONENTS SHALL BE GALVANIZED STEEL.

TOP RAIL SHALL BE CONTINUOUS OVER INTERIOR POSTS.

NO. 9 GAGE TIES AT 230 mm SPA. REQ'D. ON RAILS AND POST WITHOUT STRETCHER BARS.

THE BID ITEM "CHAIN LINK FENCE, 1.2 m" INCLUDES FURNISHING FENCE, POST ANCHOR SLEEVES, 50 mm ϕ END POST, 50 mm ϕ LINE POST, 32 mm ϕ STD. PIPE RAILING AND ALL INCIDENTAL MATERIAL.



POST ANCHOR DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE C-44-84

CONST. SPEC.	1996	DRAWN BY	DPP	PLANS CK'D.	JAW

FENCE DETAILS

SHEET 4 OF 4

FILE NAME: E1339A98/STRUCT / /STDET04 .2DG TECH/ENGR: DPP/ PLOT DATE: JA/01/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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
PLOT NAME: SEE FILE NAME

CTH E (N. BALLARD ROAD) EARTHWORK

STATION	CUT AREA (sm)	CUT VOL (cm)	FILL AREA (sm)	FILL VOL (cm)
1055.50	0.0		0.0	
1060.00	19.1	2	8.8	1
1068.00	17.4	142	10.0	58
1080.00	19.5	222	16.0	156
1100.00	22.4	419	9.5	255
1120.00	27.6	499	4.1	135
1125.00	28.4	140	3.9	20
1140.00	27.8	423	2.7	51
1150.60	0.0	147	0.0	14
1160.00	29.7	139	0.9	4
1180.00	33.4	630	0.4	14
1200.00	26.9	602	0.7	11
1220.00	25.4	523	0.6	12
1230.00	28.5	270	0.1	4
1240.00	21.8	252	1.7	9
1260.00	21.7	435	1.1	28
1280.00	54.6	759	0.8	20
1285.00	57.7	281	0.5	3
1300.00	27.9	646	0.4	7
1320.00	26.5	544	0.1	5
1340.00	28.5	550	0.1	2
1360.00	29.6	581	0.1	1
1380.00	28.8	585	0.1	1
1400.00	27.5	564	0.2	3
1420.00	26.4	539	0.5	7
1440.00	23.7	500	3.2	37
1460.00	21.9	455	5.5	87
1473.20	27.0	322	5.2	71
1500.00	16.0	574	10.4	210
1517.00	16.0	273	8.9	163
1520.00	16.0	48	8.9	27
1540.00	12.4	285	13.2	222

CTH E (N. BALLARD ROAD) EARTHWORK

STATION	CUT AREA (sm)	CUT VOL (cm)	FILL AREA (sm)	FILL VOL (cm)
1560.00	11.2	236	13.7	269
1580.00	13.0	242	8.3	219
1597.00	18.0	263	5.7	118
1620.00	16.4	395	3.4	104
1640.00	22.0	384	1.2	46
1656.00	23.4	363	0.1	10
1660.00	22.2	91	0.2	1
1670.00	24.0	231	0.6	4
1680.00	17.5	208	1.1	8
1700.00	15.6	332	1.3	24
1720.00	9.9	255	11.3	125
1740.00	8.0	179	17.8	291
1760.00	7.1	151	19.1	370
1780.00	6.2	133	19.4	385
1800.00	5.7	119	20.0	393
1820.00	5.9	116	18.4	384
1840.00	8.4	143	15.4	339
1860.00	10.5	189	11.1	265
1880.00	11.9	224	7.6	187
1892.00	14.0	155	5.5	79
1900.00	11.3	101	9.1	58
1920.00	9.9	212	10.6	197
1940.00	11.1	210	8.6	192
1942.00	11.8	23	7.3	16
1960.00	7.6	175	13.3	186
1973.00	10.5	118	12.0	165
1980.00	9.1	69	15.1	95
2000.00	6.5	156	17.8	329
2020.00	5.9	124	19.0	368
2040.00	5.6	115	15.8	348
2060.00	6.2	118	10.2	261
2080.00	11.1	173	9.7	199

MISCELLANEOUS QUANTITIES | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97/95 | SHEET NO: 9.1 | M

WISDOT: MSHT40

CTH JJ EARTHWORK

STATION	CUT AREA (sm)	CUT VOL (cm)	FILL AREA (sm)	FILL VOL (cm)
1040.00	0.0		0.0	
1060.00	10.6	0	0.0	0
1080.00	11.2	218	0.0	0
1100.00	13.4	246	0.0	0
1115.00	14.0	205	0.0	0
1120.00	15.1	73	0.0	0
1130.00	18.9	170	0.0	0
1140.00	9.5	141	0.0	0
1150.60	15.0	130	0.2	1
1160.00	16.3	147	0.4	3
1170.00	18.0	172	0.3	3
1180.00	15.7	169	1.8	10
1200.00	12.7	284	1.4	32
1240.00	13.8		1.1	
1260.00	17.1	309	1.5	26
1280.00	16.0	330	1.7	32
1297.00	15.0	263	1.4	26
1310.00	9.9	160	1.3	18
1320.00	10.7	103	0.1	7
1340.00	15.8	265	0.3	4
1360.00	10.4	262	0.0	3
1369.73	10.4	101	0.0	0
TOTALS		3 757		182

ASHBURY DRIVE EARTHWORK

STATION	CUT AREA (sm)	CUT VOL (cm)	FILL AREA (sm)	FILL VOL (cm)
2081.67	7.6		0.0	
2100.00	7.6	139	0.0	0
2120.00	4.6	122	2.2	22
2140.00	5.5	101	1.4	34
2160.00	3.2	87	1.3	26
2200.00	0.0		20.2	
2220.00	1.3	13	10.9	311
2240.00	7.4	87	4.6	155
2260.00	8.0	154	2.7	73
2280.00	10.0	180	0.2	30
2293.50	10.0	135	0.2	3
TOTALS		1 018		654

MEMORY LANE EARTHWORK

STATION	CUT AREA (sm)	CUT VOL (cm)	FILL AREA (sm)	FILL VOL (cm)
4960.00	3.7		0.1	
4972.00	4.3	48	0.1	1
4980.00	4.4	35	0.7	3
TOTALS		83		4

CTH E (N. BALLARD ROAD) EARTHWORK

STATION	CUT AREA (sm)	CUT VOL (cm)	FILL AREA (sm)	FILL VOL (cm)
2100.00	10.4	215	5.3	149
2120.00	12.3	227	2.4	77
2135.00	14.5	201	4.7	54
2140.00	14.7	73	3.1	19
2157.20	21.5	311	0.0	26
2180.00	15.9	426	2.8	32
2200.00	13.3	293	12.7	155
2220.00	11.5	248	18.3	312
2240.00	9.7	212	21.2	394
2260.00	7.9	176	19.1	403
2280.00	6.5	144	18.7	378
2300.00	6.0	125	19.5	382
2320.00	6.5	125	21.5	410
2340.00	8.3	148	15.2	367
2360.00	8.1	164	13.9	291
2380.00	10.9	190	12.4	262
2386.00	31.9	129	10.4	68
2400.00	9.3	289	14.9	177
2420.00	10.5	198	10.7	255
2433.00	14.8	165	7.8	120
2440.00	12.9	97	7.9	55
2453.00	25.8	252	1.4	61
2460.00	18.9	156	1.7	11
2475.00	18.0	276	9.3	83
2480.00	16.9	87	9.9	48
2500.00	14.9	318	6.6	164
2520.00	16.6	314	6.4	130
2532.00	17.8	206	6.6	78
2540.00	14.4	129	0.6	29
2560.00	13.7	281	10.1	107
2580.00	12.1	258	11.1	212
2600.00	11.4	235	8.0	191

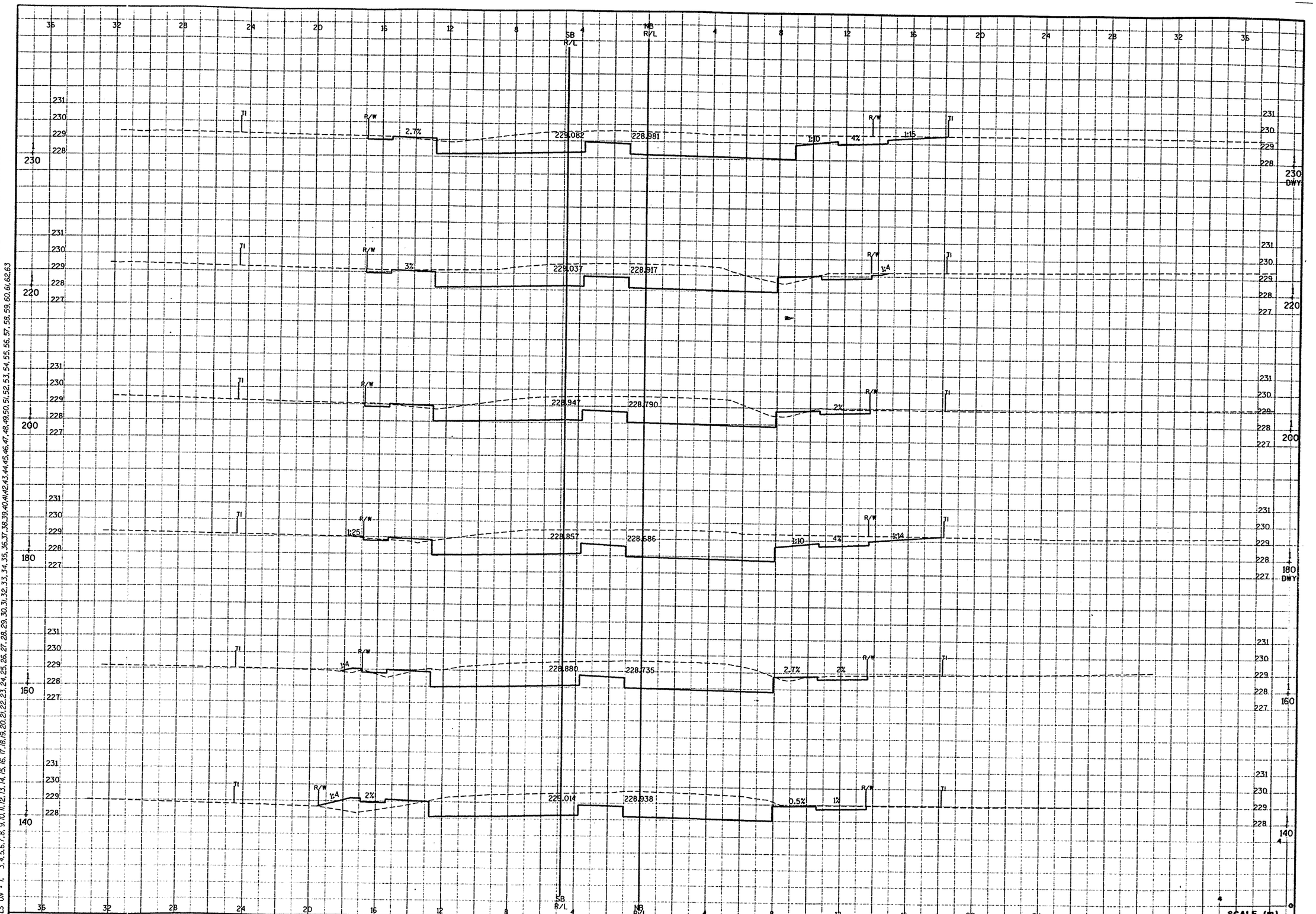
CTH E (N. BALLARD ROAD) EARTHWORK

STATION	CUT AREA (sm)	CUT VOL (cm)	FILL AREA (sm)	FILL VOL (cm)
2620.00	15.3	267	2.1	101
2640.00	13.2	285	5.1	72
2660.00	30.4	436	0.0	51
2680.00	15.5	458	1.5	15
2700.00	11.9	273	3.2	46
2720.00	14.9	268	2.7	58
2740.00	15.8	307	1.1	37
2760.00	17.1	328	0.3	13
2770.00	20.1	186	0.1	2
2776.00	23.1	129	0.0	0
2800.00	25.0	571	2.0	24
2813.00	27.2	339	0.0	13
2820.00	23.1	176	0.0	0
2840.00	12.1	355	0.7	7
2860.00	6.4	185	0.7	14
2880.00	16.1	225	0.0	7
2900.00	13.7	298	0.0	0
2920.00	7.9	217	0.0	0
2940.00	6.9	148	0.0	0
2944.00	1.7	17	0.8	2
2960.00	3.5	42	0.4	10
2980.00	3.1	66	0.3	7
3000.00	3.2	64	0.3	6
3020.00	2.9	62	0.1	4
3040.00	5.7	86	0.0	1
3055.00	0.0	43	0.1	1
TOTALS		30 855		13 665

FILE NAME: E1339A /SHEETS /XSECT /NBDOT01.DGN
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654
LEVELS ON • 1, 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
TECH/ENGR: DPP/SDC
REV. DATE: / /
PLOT DATE: 05/05/99
PLOT NAME: SEE FILE NAME
PLOT SCALE: 1:

CROSS SECTIONS - N. BALLARD ROAD	SCALE: 1:	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 9.4	M

WISDOT: MSHT40



PLOT DATE: 05/05/99
PLOT NAME: SEE FILE NAME
PLOT SCALE: 1:
TECH/ENGR: DPP/SDC
REV. DATE: / /
FILE NAME: E1339A /SHEETS /XSECT /NBOOT02 .DGN
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654
LEVELS ON • 1, 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

CROSS SECTIONS - | SCALE: 1: | HWY: CTH E (N.BALLARD RD) | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 9.5 | M

WISDOT: MSHT40

CROSS SECTIONS -

SCALE: 1:

HWY: CTH E (N.BALLARD RD)

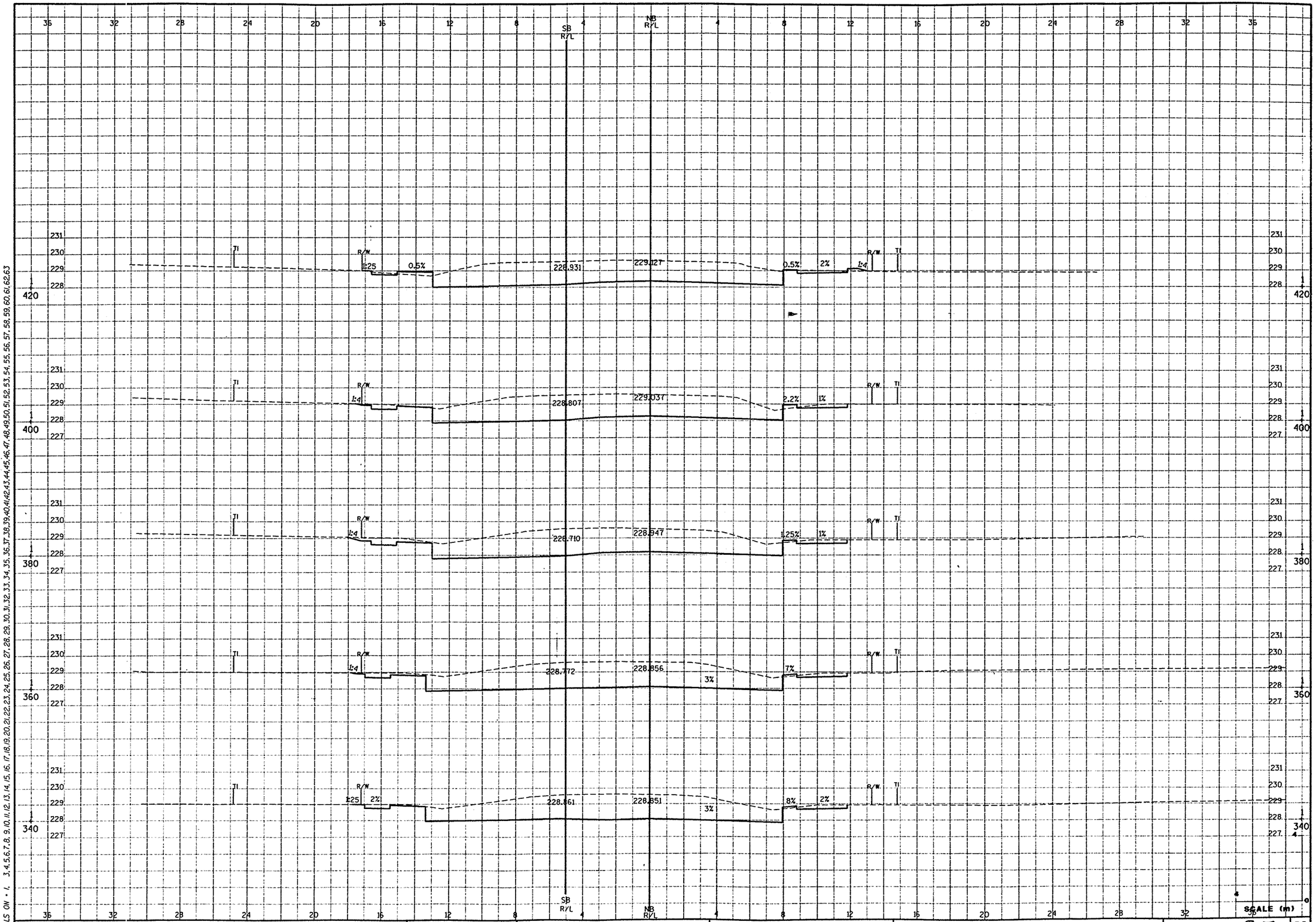
COUNTY: OUTAGAMIE

STATE PROJECT NO: 4984-00-97

SHEET NO: 9.6 M

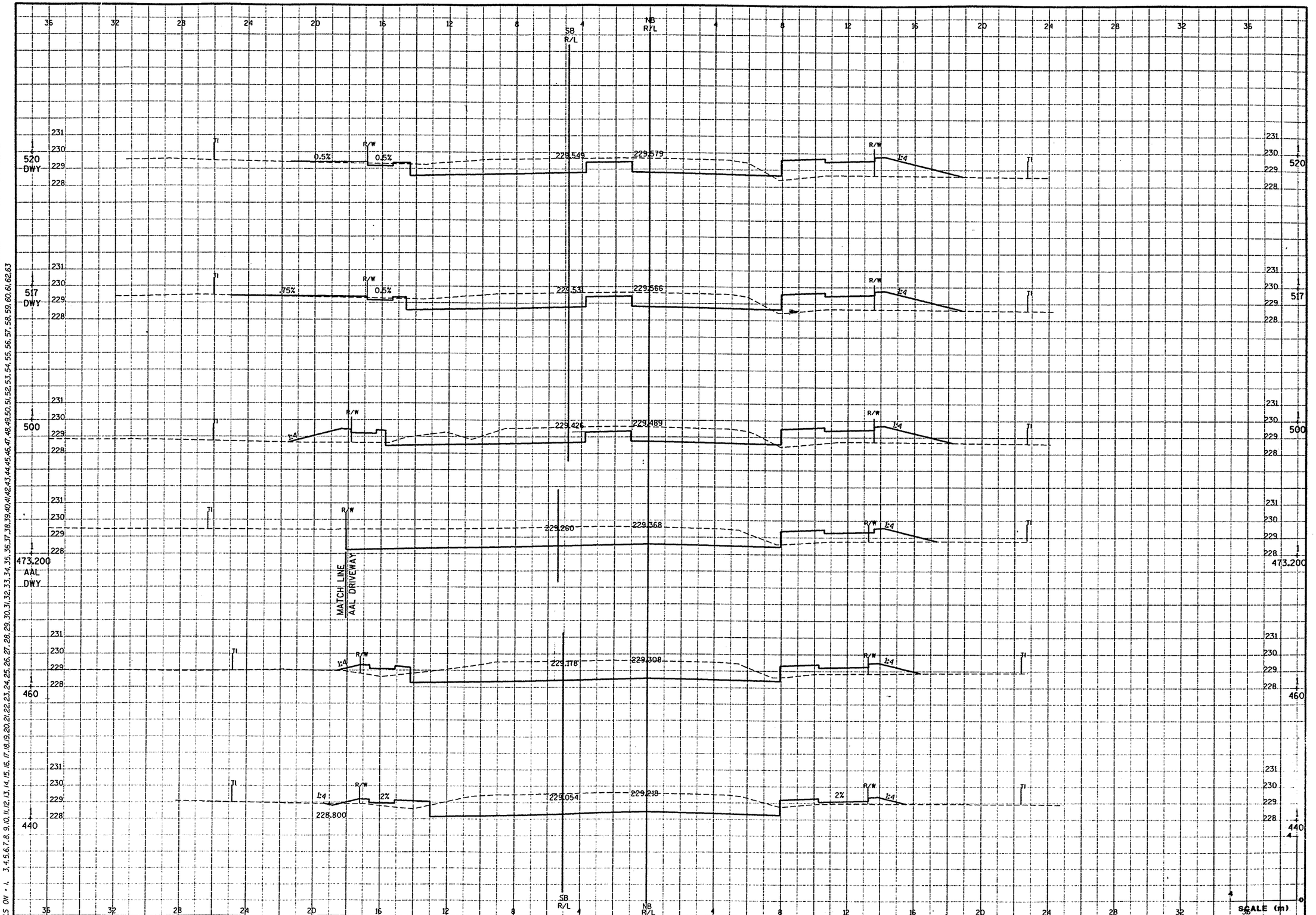
WISDOT: MSHT40

FILE NAME: E1339A /SHEETS /XSECT /NBDOT03 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1, 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
PLOT NAME: SEE FILE NAME
PLOT SCALE: 1:



CROSS SECTIONS - | SCALE: 1: | HWY: CTH E (N.BALLARD RD) | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 9.7 | M

PLOT DATE: 05/05/99
FILE NAME: E1339A /SHEETS /XSECT /NBDOT05 .DGN
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654
LEVELS ON - 1, 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
PLOT NAME: SEE FILE NAME
PLOT SCALE: 1:
TECH/ENGR: DPP/SDC
REV. DATE: / /



CROSS SECTIONS - | SCALE: 1: | HWY: CTH E (N.BALLARD RD) | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 9.8 | M

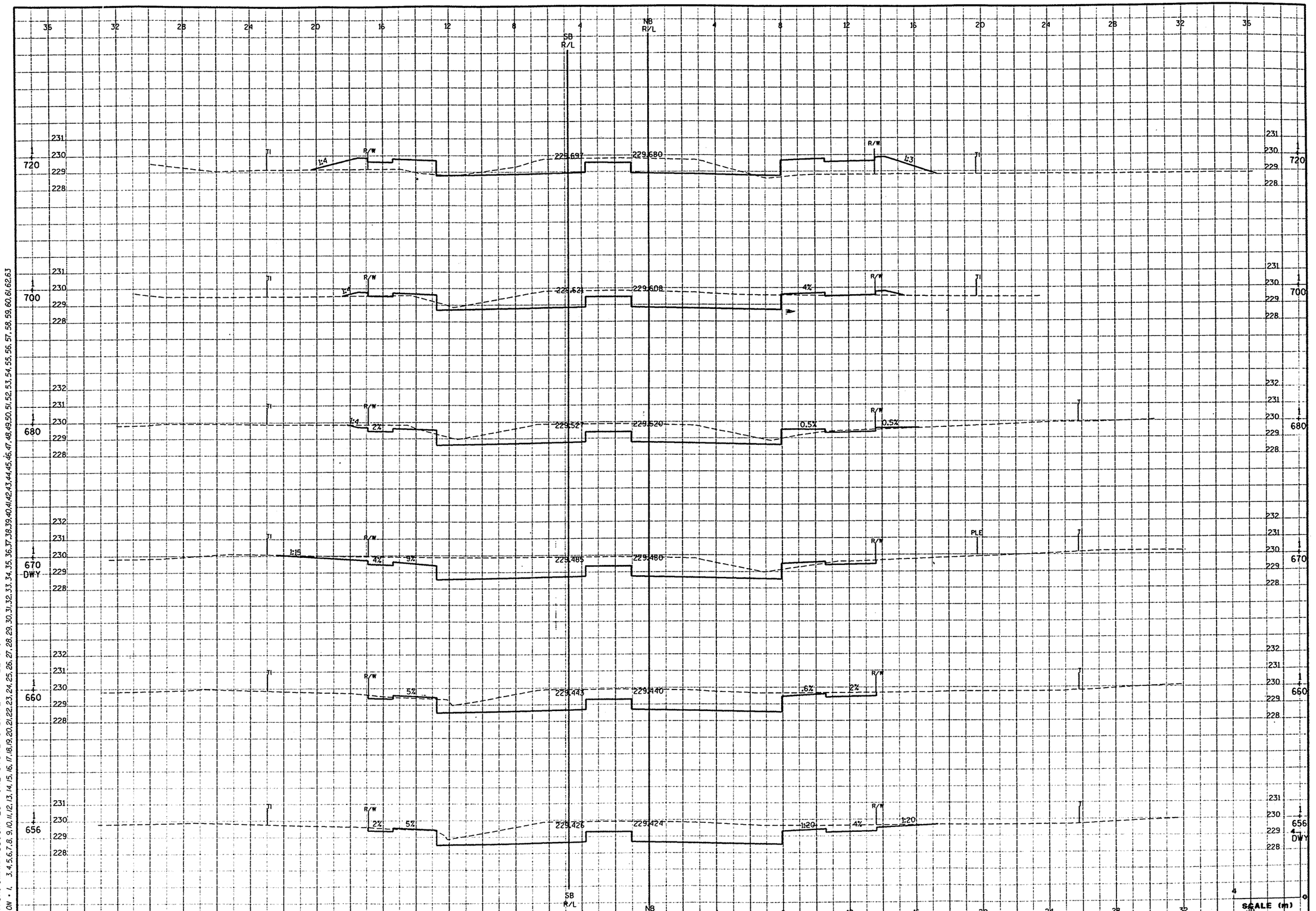
SCALE (m)

WisDOT: MSHT40

FILE NAME: E1339A /SHEETS /XSECT /NBDOT06 .DGN
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654
LEVELS ON - 1, 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
TECH/ENGR: DPP/SDC REV. DATE: / /
PLOT DATE: 05/05/99
PLOT NAME: SEE FILE NAME
PLOT SCALE: 1:

CROSS SECTIONS - | SCALE: 1: | HWY: CTH E (N.BALLARD RD) | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 9.9 | M

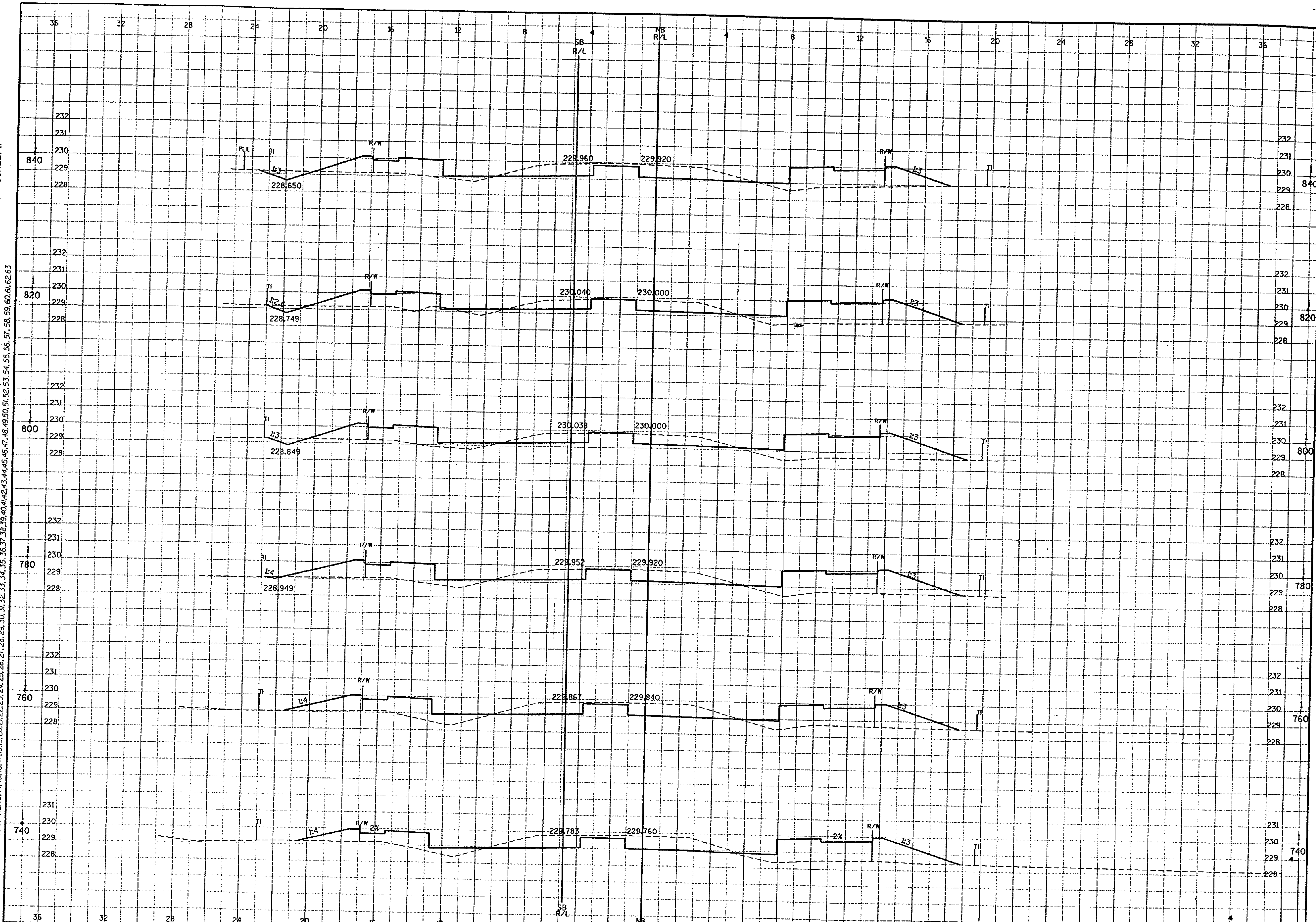
WISDOT: MSHT40



FILE NAME: E1339A /SHEETS /XSECT /NBDOTOT .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON = 1, 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
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

CROSS SECTIONS - | SCALE: 1: | HWY: CTH E (N.BALLARD RD) | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 9.10 | M

WISDOT: MSHT40



FILE NAME: E1339A /SHEETS /XSECT /NBDOT08 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99 PLOT SCALE: 1:

ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME

LEVELS ON = 1, 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

CROSS SECTIONS -	SCALE: 1:	HWY: CTH E (N.BALLARD RD)	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 9.11	M

WISDOT: MSHT4

FILE NAME: E1339A /SHEETS /XSECT /NBDOT09 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON - 1, 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
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

CROSS SECTIONS -	SCALE: 1:	HWY: CTH E (N.BALLARD RD)	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 9.12 M

WisDOT: MSHT40

PLOT DATE: 05/05/99 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

FILE NAME: E1339A /SHEETS /XSECT /NBOOT10 .DGN TECH/ENGR: DPP/SDC PLOT DATE: / /

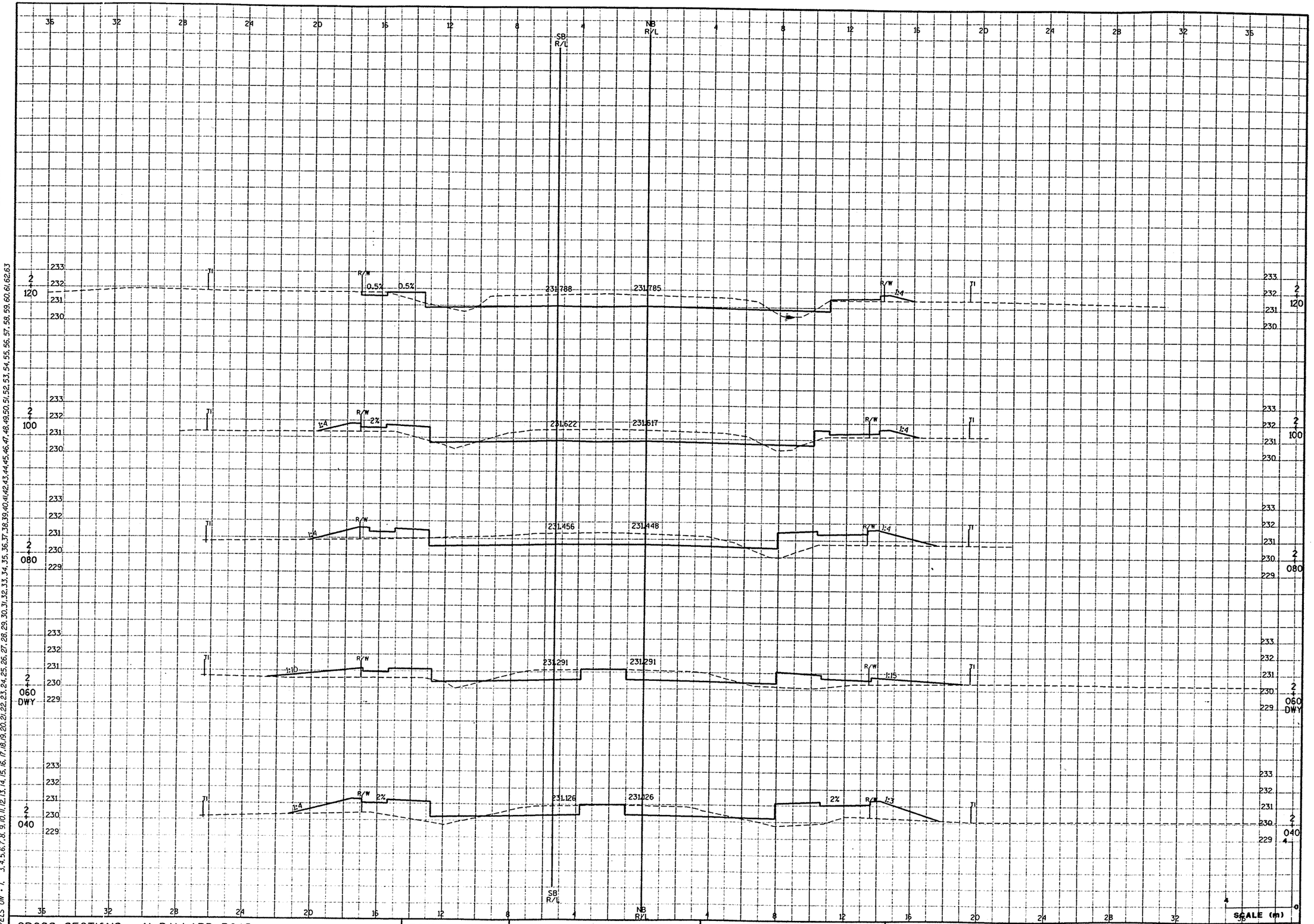
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /

LEVELS ON - 1, 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

CROSS SECTIONS - | SCALE: 1: | HWY: CTH E (N.BALLARD RD) | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 9.13 | M

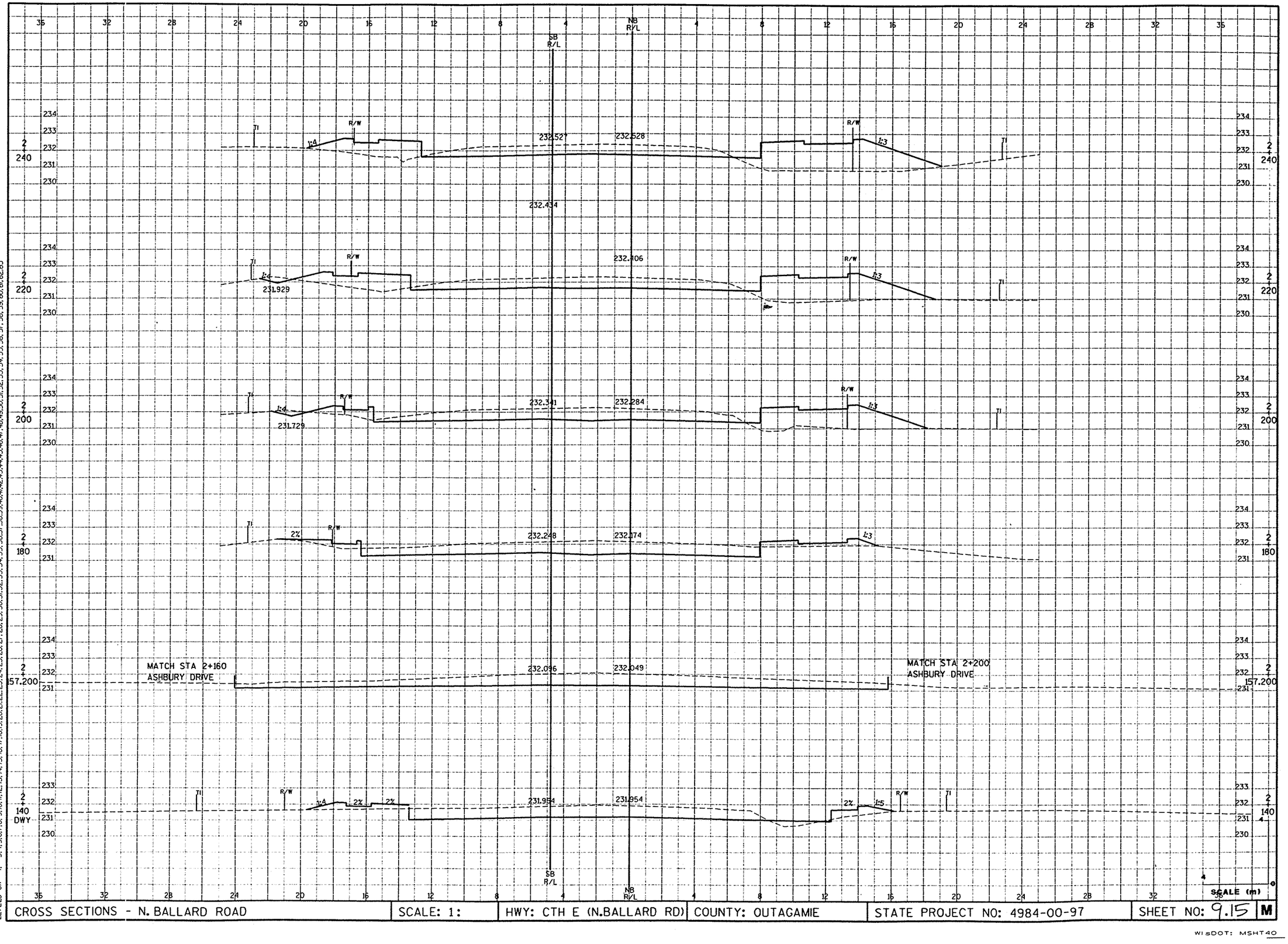
WISDOT: MSHT40

FILE NAME: E1339A /SHEETS /XSECT /NBDOTI1.DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1. 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,
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:



CROSS SECTIONS - N. BALLARD ROAD	SCALE: 1:	HWY: CTH E (N.BALLARD RD)	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 9.14 M

WISDOT: MSHT40

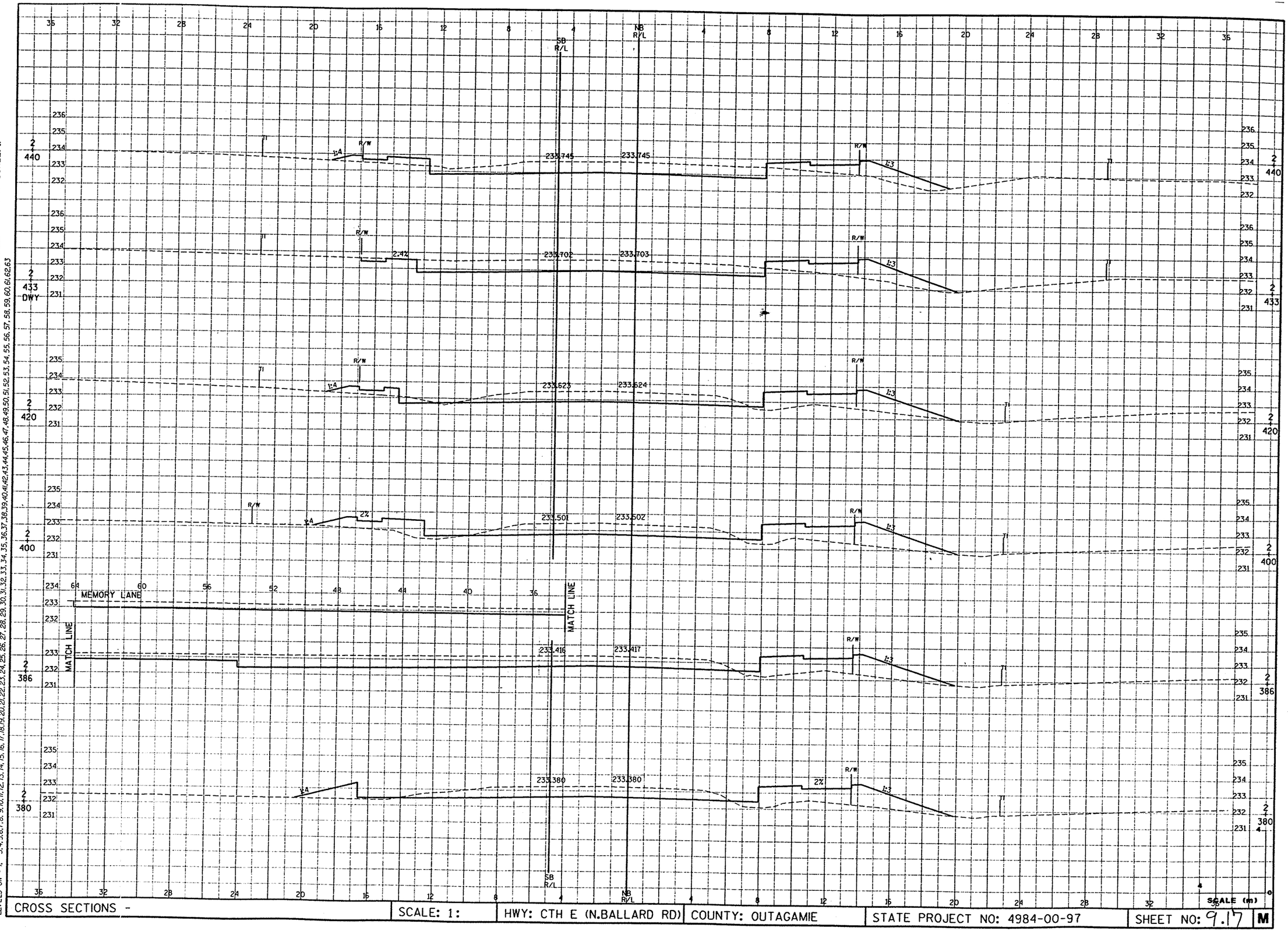


CROSS SECTIONS - N. BALLARD ROAD	SCALE: 1:	HWY: CTH E (N.BALLARD RD)	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 9.15 M

PLOT DATE: 05/05/99
FILE NAME: E1339A /SHEETS /XSECT /NBOOT13 .DGN TECH/ENGR: DPP/SDC PLOT SCALE: 1:
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON - 1, 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
PLOT NAME: SEE FILE NAME

CROSS SECTIONS -	SCALE: 1:	HWY: CTH E (N.BALLARD RD)	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 9.16 M

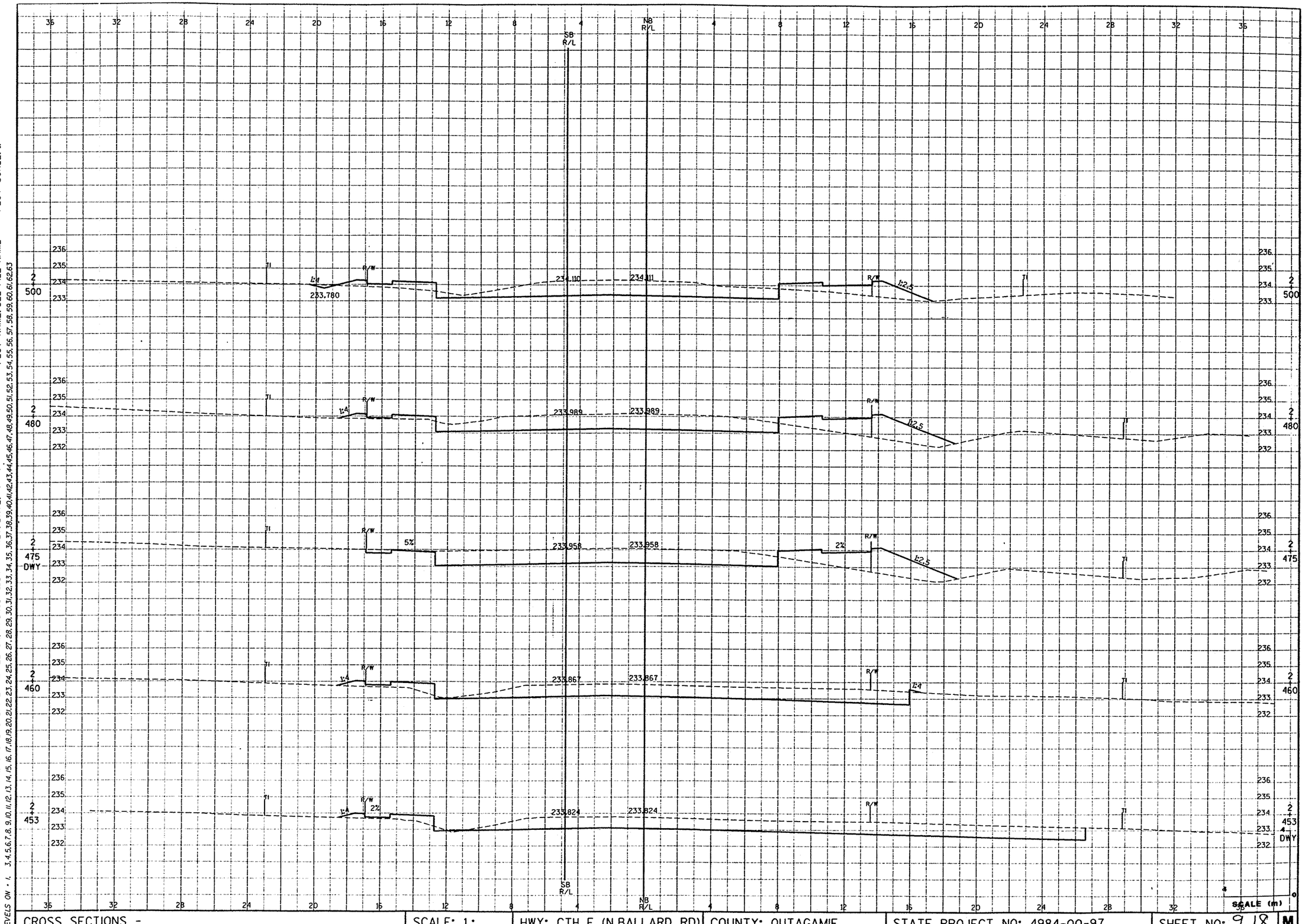
WisDOT: MSHT40



FILE NAME: E1339A /SHEETS /XSECT /NBDOT14.DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
LEVELS ON = 1, 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

CROSS SECTIONS - | SCALE: 1: | HWY: CTH E (N.BALLARD RD) | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 9.17 | M

WISDOT: MSHT40



FILE NAME: E1339A /SHEETS /XSECT /NBOOT15 .DGN TECH/ENGR: DPP/SDC
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON - 1, 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
PLOT NAME: SEE FILE NAME PLOT DATE: 05/05/99
PLOT SCALE: 1:

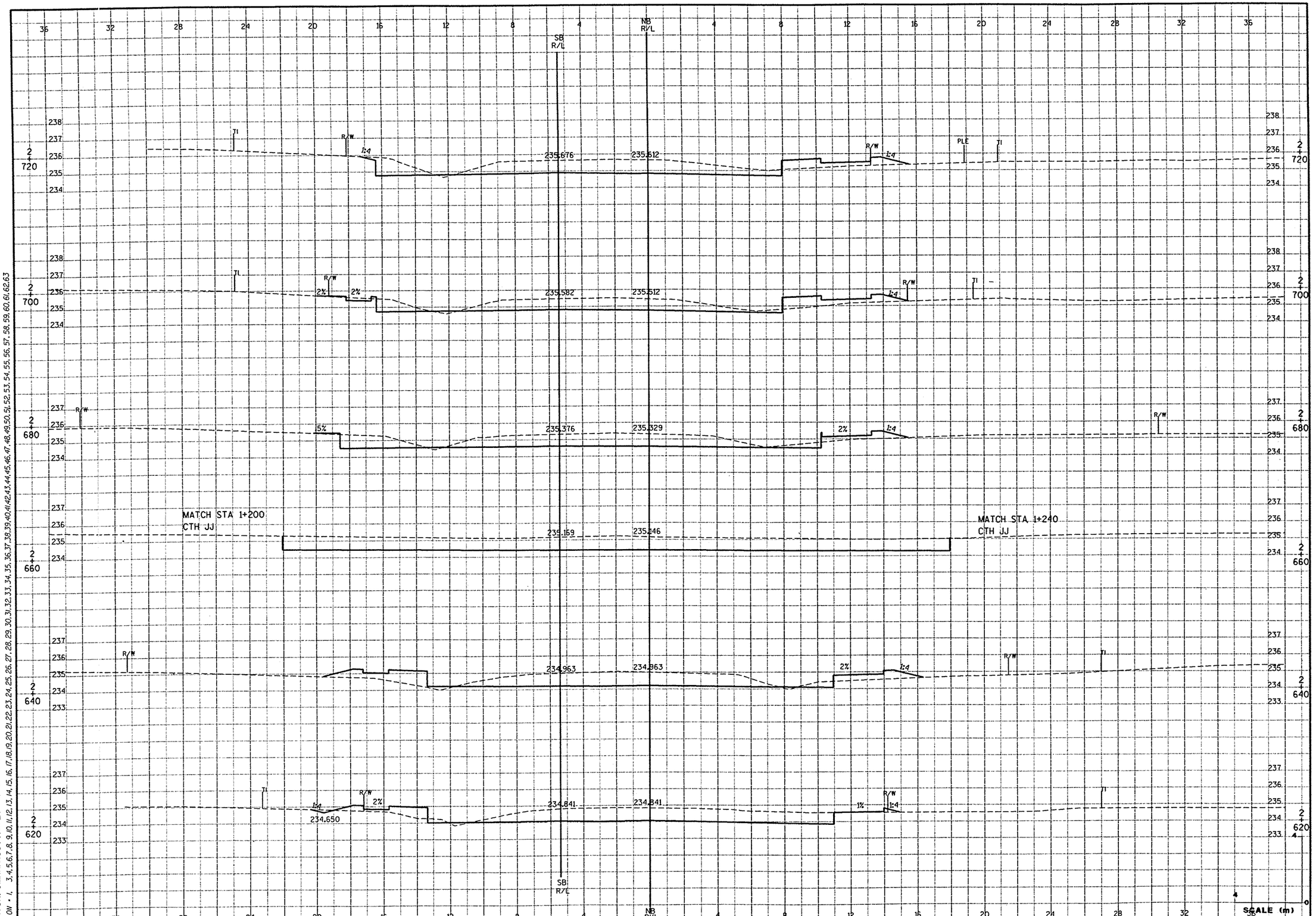
CROSS SECTIONS -	SCALE: 1:	HWY: CTH E (N.BALLARD RD)	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 9.18 M

WISDOT: MSHT40

CROSS SECTIONS - | SCALE: 1: | HWY: CTH E (N.BALLARD RD) | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-95 | SHEET NO: 9.19 | M

WISDOT: MSHT40

FILE NAME: E1339A /SHEETS /XSECT /NBDOT16 .DGN TECH/ENGR: DPP/SDC PLOT SCALE: 1:
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT DATE: 05/05/99
LEVELS ON • 1, 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 PLOT NAME: SEE FILE NAME



CROSS SECTIONS - | SCALE: 1: | HWY: CTH E (N.BALLARD RD) | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-95 | SHEET NO: 9.20 M

CROSS SECTIONS -

SCALE: 1:

HWY: CTH E (N.BALLARD RD)

COUNTY: OUTAGAMIE

STATE PROJECT NO: 4984-00-95

SHEET NO: 9.21 M

WisDOT: MSHT40

FILE NAME: E1339A /SHEETS /XSECT /NBDOT18 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1, 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
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

CROSS SECTIONS - N. BALLARD ROAD | SCALE: 1: | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-95 | SHEET NO: 9.22 M

FILE NAME: E1339A /SHEETS /XSECT /NBDOT19 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
LEVELS ON • 1, 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
PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

WISDOT: MSHT40

PLOT DATE: 05/05/99
PLOT NAME: SEE FILE NAME
PLOT SCALE: 1:
FILE NAME: E1339A /SHEETS /XSECT /NBDOT20 .DGN
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654
REV. DATE: / / TECH/ENGR: DPP/SDC
LEVELS ON • 1, 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

3 + 020

3 + 000

2 + 980

2 + 960

2 + 944

2 + 940

NB R/L

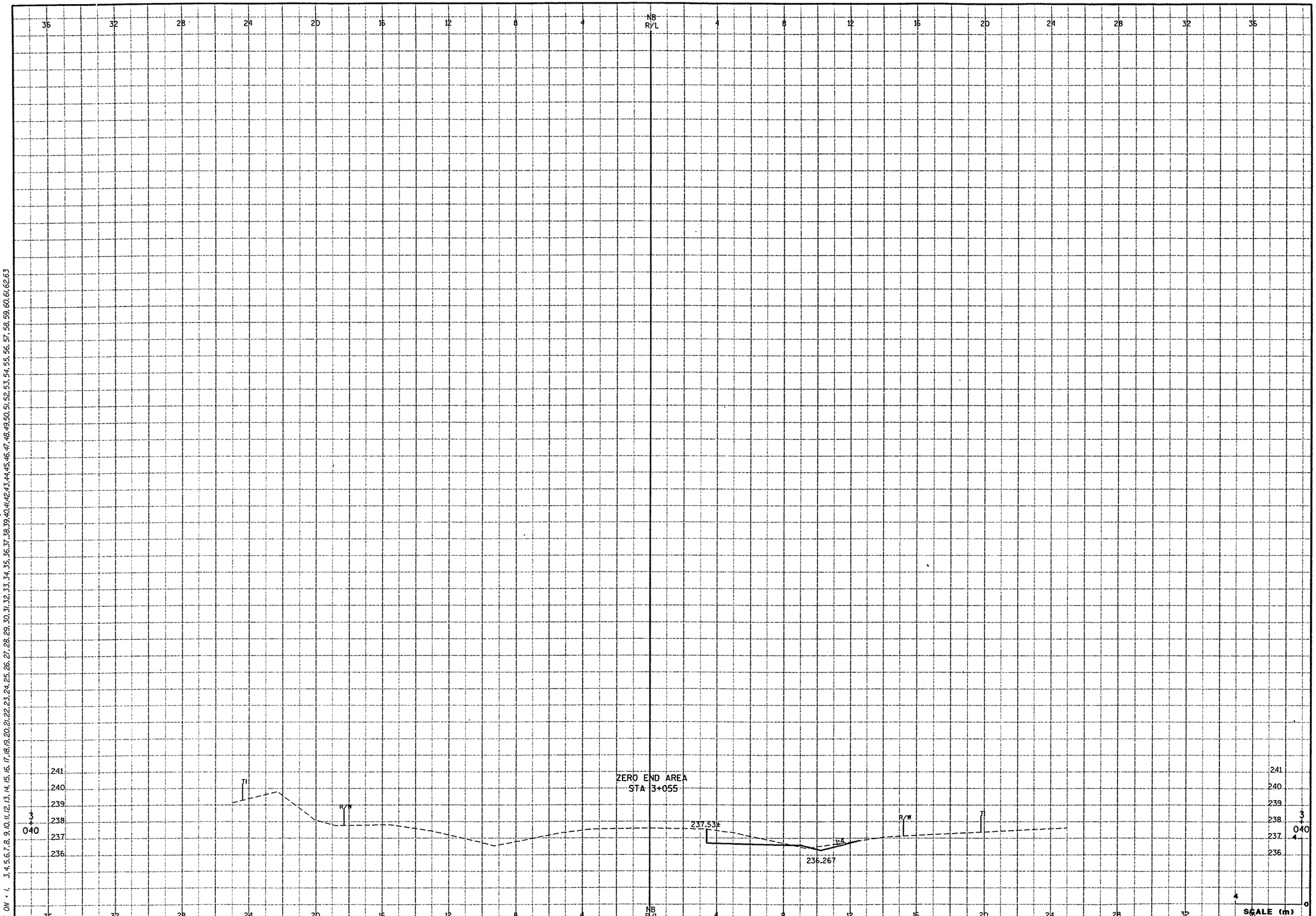
237.44±
236.149
237.29±
236.033
237.12±
235.948
237.18±
235.863
237.11±
237.09±
235.774

R/W
TI
1:4
1:20

CROSS SECTIONS - N. BALLARD ROAD | SCALE: 1: | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-95 | SHEET NO: 9.23 M

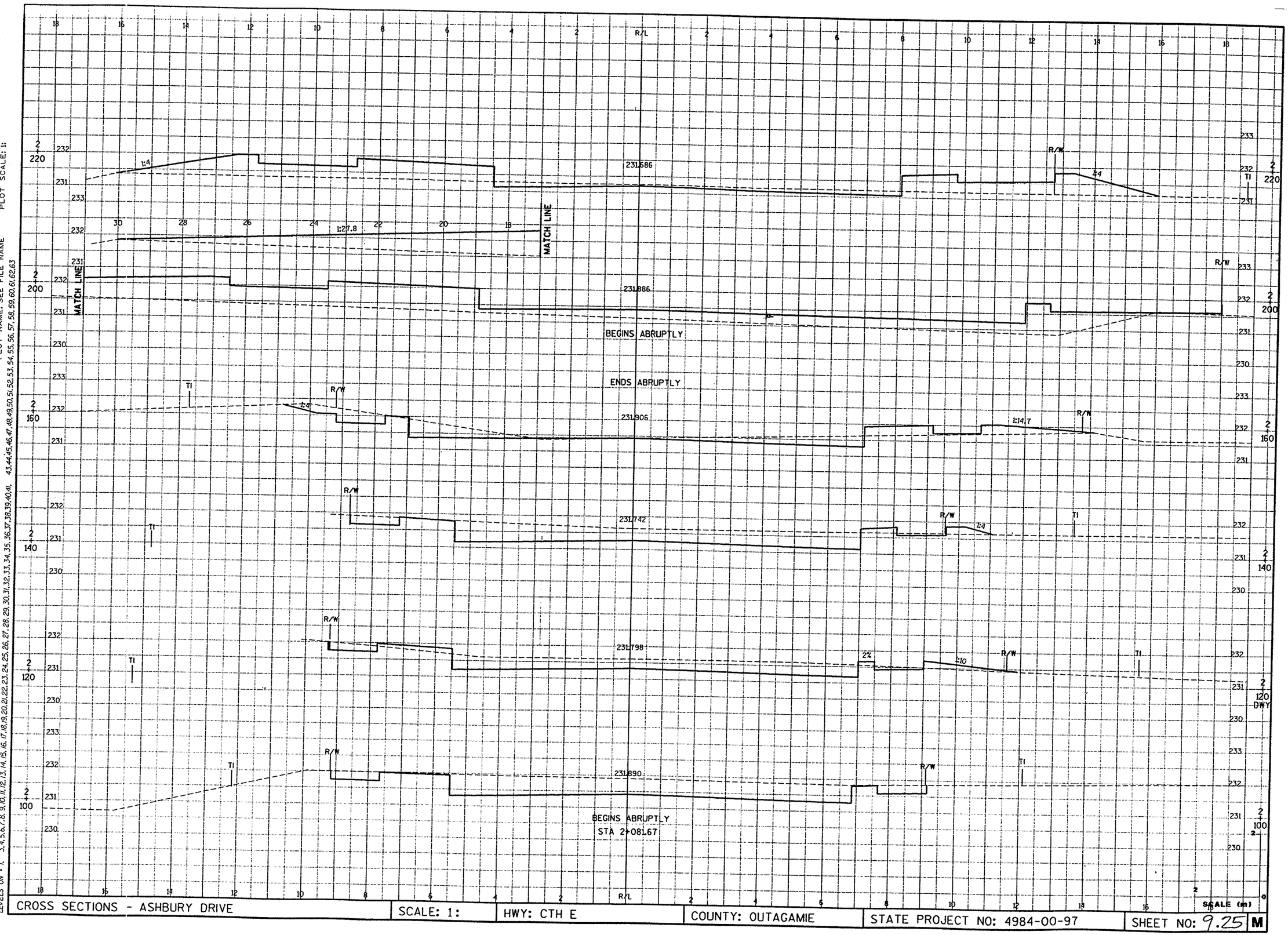
SCALE (m) 0 4

FILE NAME: E1339A /SHEETS /XSECT /NBDOT21.DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
LEVELS ON - 1, 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



CROSS SECTIONS - N. BALLARD ROAD	SCALE: 1:	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 9.24 M

WISDOT: MSHT40

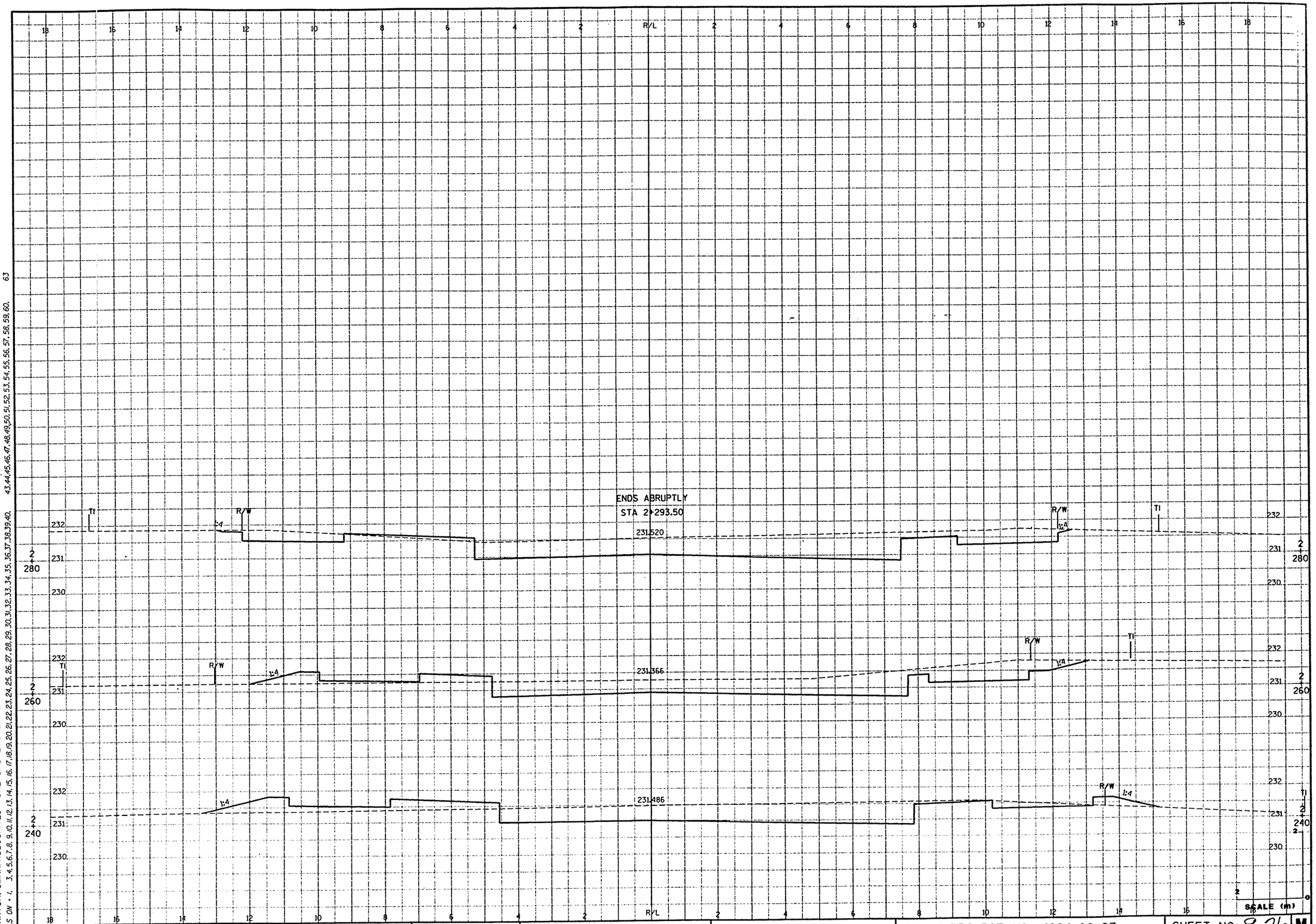


CROSS SECTIONS - ASHBURY DRIVE | SCALE: 1: | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 9.25 M

FILE NAME: E1339A /SHEETS /XSECT /XSASH01.DGN
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654
LEVELS ON • 1, 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, 43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
TECH/ENGR: DPP/SDC
REV. DATE: / /
PLOT NAME: SEE FILE NAME
PLOT DATE: 10/18/99
PLOT SCALE: 1:

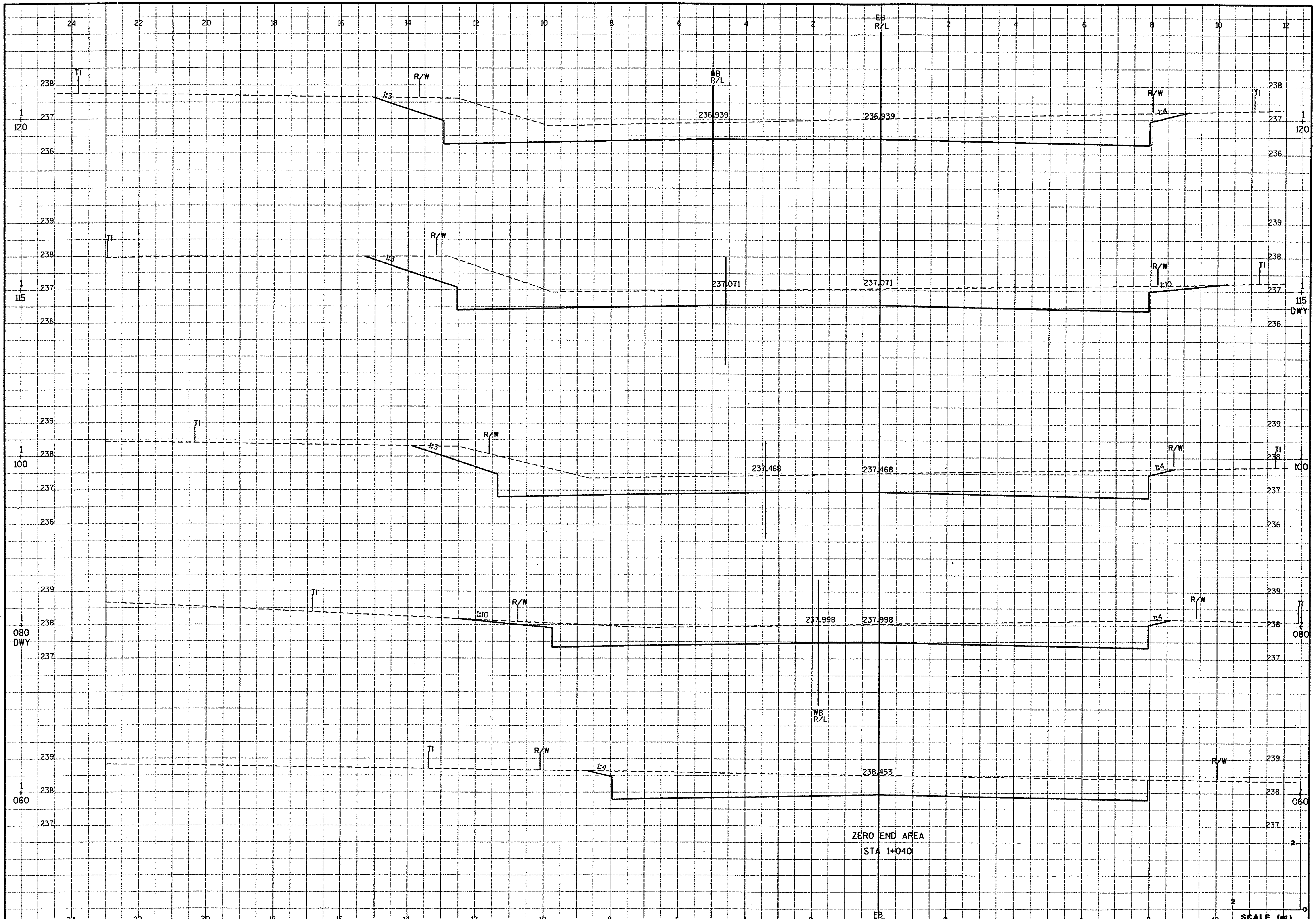
WISDOT: MSHT40

FILE NAME: E1339A /SHEETS /XSECT /XSASH02 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
LEVELS ON = 1, 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, 43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60, 63



CROSS SECTIONS - ASHBURY DRIVE | SCALE: 1: | HWY: CTH E | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 9.26 M

WISDOT: MSHT40



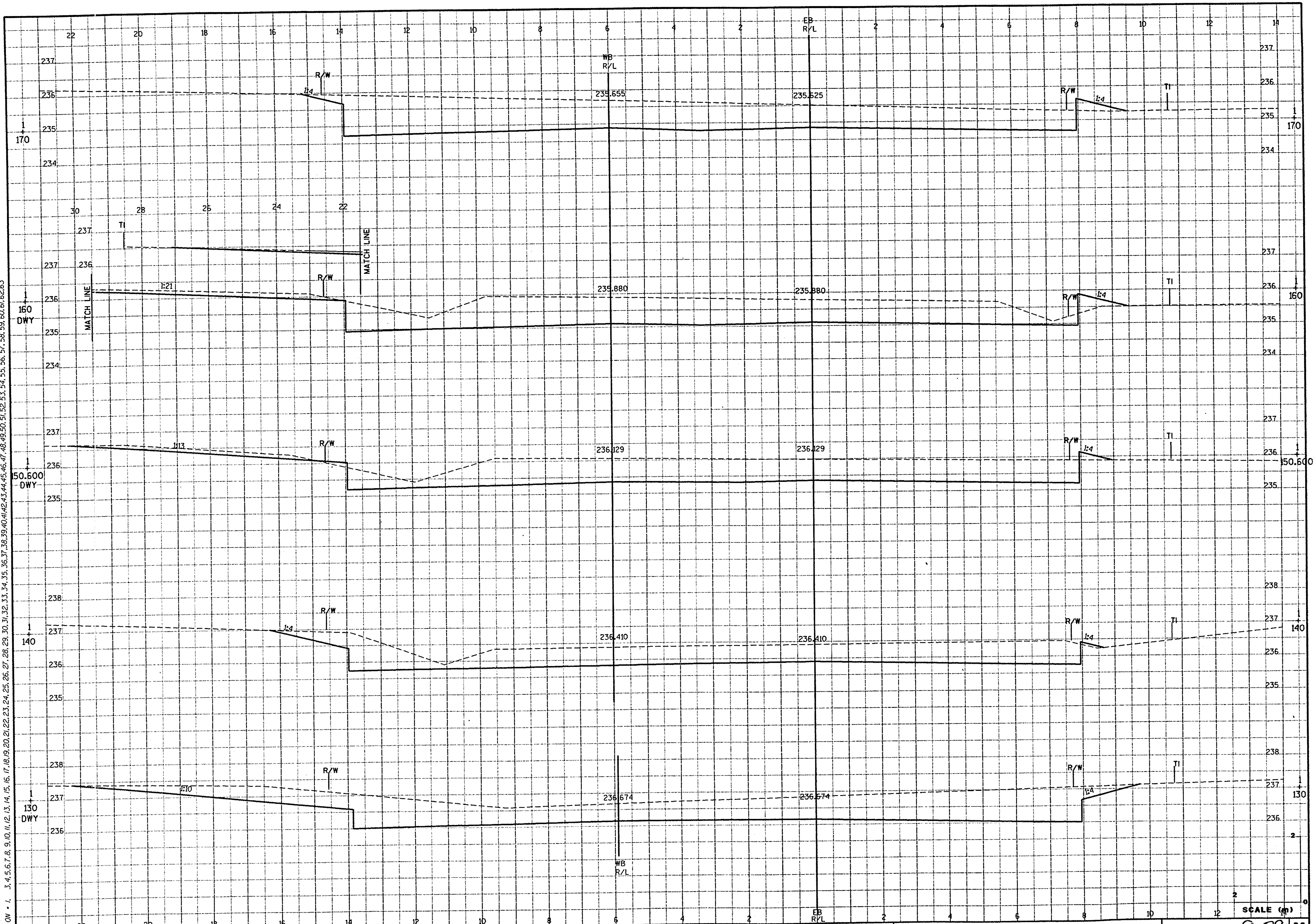
FILE NAME: E1339A /SHEETS /XSECT /XSJJ01 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99 PLOT SCALE: 1:

ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME

LEVELS ON - 1, 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

CROSS SECTIONS - CTH JJ	SCALE: 1:	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 9.27	M

WISDOT: MSHT40



CROSS SECTIONS - CTH JJ	SCALE: 1:	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 9.28	M

WISDOT: MSHT40

FILE NAME: E1339A /SHEETS /XSECT /XSJJ02 .DGN TECH/ENGR: DPP/SDC PLOT DATE: 05/05/99 PLOT SCALE: 1:

ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / / PLOT NAME: SEE FILE NAME

LEVELS ON = 1, 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

22 20 18 16 14 12 10 8 6 4 2 WB R/L EB R/L 2 4 6 8 10 12 14

236 235 234 233 237

TI R/W 1:12 235.051 235.051 0.5% R/W TI 1+280

TI R/W 1:30 234.980 234.976 0.2% R/W TI 1+260

1:6 234.800 235.081 235.051 1:4 1+240

BEGINS ABRUPTLY

ENDS ABRUPTLY

0.5% 1.9% 235.340 235.251 1.7% 1:4 1+200

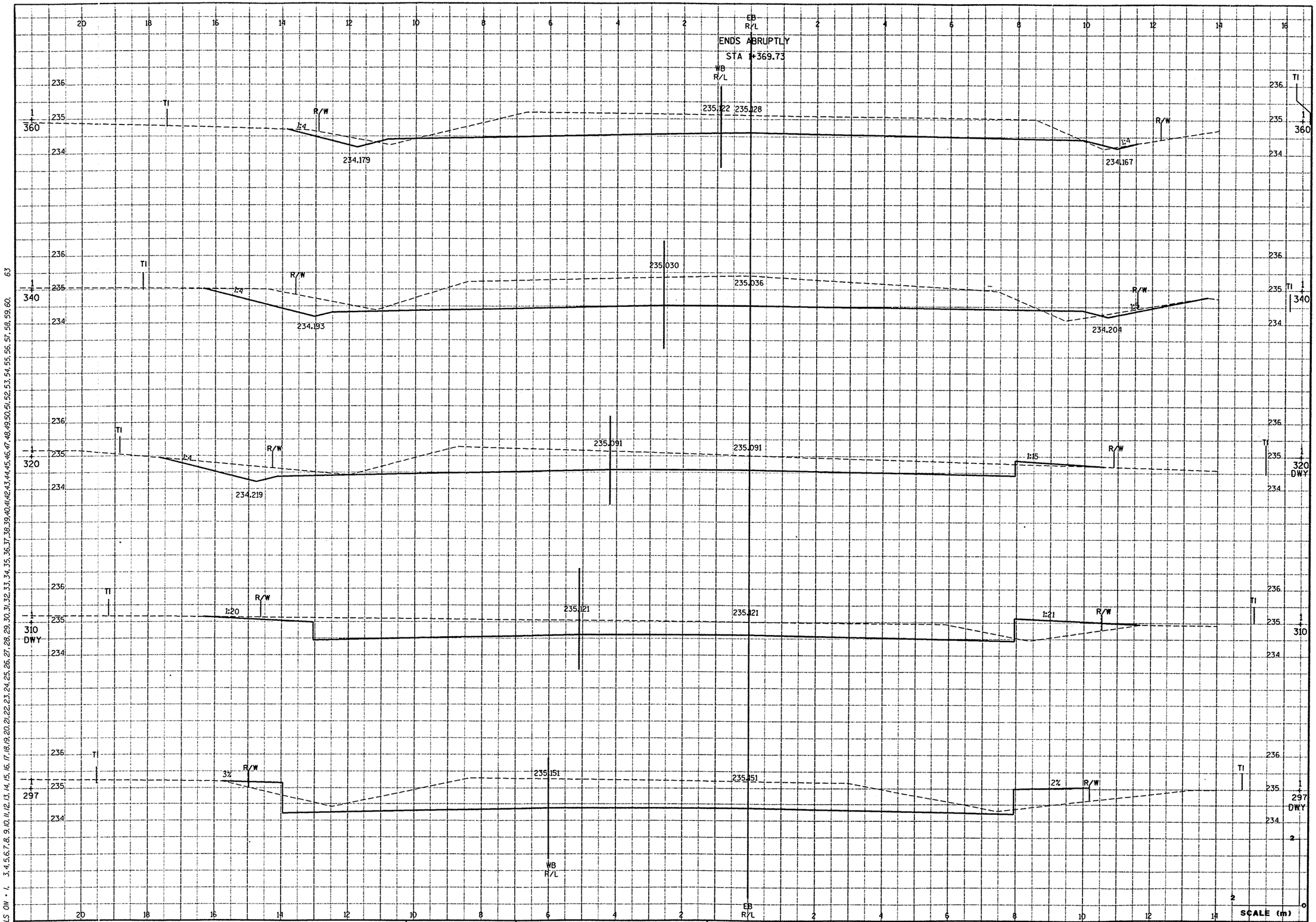
1:1 R/W 1% 235.497 235.432 R/W 1:4 TI 1+180

WB R/L

22 20 18 16 14 12 10 8 6 4 2 EB R/L 2 4 6 8 10 12 14

SCALE (m) 2 0 2

CROSS SECTIONS - CTH JJ	SCALE: 1:	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 9.29 M



FILE NAME: E1339A /SHEETS /XSECT /XSJJ04 .DGN TECH/ENGR: DPP/SDC
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE:
LEVELS ON • 1. 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, 63 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:
PLOT DATE: 05/05/99

CROSS SECTIONS - CTH JJ	SCALE: 1:	HWY: CTH E	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-95	SHEET NO: 9.30 M

WISDOT: MSHT40

FILE NAME: E1339A /SHEETS /XSECT /XSMEM01.DGN TECH/ENGR: DPP/SDC PLOT DATE: 10/18/99
ORIGINATOR: OMNNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 REV. DATE: / /
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,

PLOT NAME: SEE FILE NAME 56, 59, 60, 61, 63

PLOT SCALE: 1:

END ABRUPTLY

4+980: TI, R/W, L4, 232.689, 233.180, L3, 232.405, R/W

4+972 DWY: TI, R/W, L3, 232.450, 233.183, R/W

4+960: R/W, L3.5, 232.624, 233.245, L5, R/W

ZERO END AREA
4+940.780

SCALE (m)

CROSS SECTIONS - MEMORY LANE	SCALE: 1:	HWY: CTH E (N.BALLARD RD)	COUNTY: OUTAGAMIE	STATE PROJECT NO: 4984-00-97	SHEET NO: 9.3	M

WISDOT: MSHT40

FILE NAME: E1339A /SHEETS /XSECT /XSSIL01.DGN TECH/ENGR: DPP/SDC PLOT DATE: 10/18/99
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1657 REV. DATE: / /
LEVELS ON - 1,2,3,4,5,6,7,8, 9,10,11,12, 13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,37,38,39,40,41.

PLOT NAME: SEE FILE NAME 63
56, 59,60.

PLOT SCALE: 1:

ZERO END AREA

228.758

228.900

228.880

BEGIN ABRUPTLY

R/W

1:4

4+050 4+040 4+020

229 228 230

SCALE (m) 0 2 2

CROSS SECTIONS - SILVERLEAF COURT | SCALE: 1: | HWY: CTH E (N.BALLARD RD) | COUNTY: OUTAGAMIE | STATE PROJECT NO: 4984-00-97 | SHEET NO: 9.32 M

WLEDOT: MSHT40