GENERAL NOTES

1. NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER.

2. THE LOCATION OF UTILITIES, AS NOTED ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

3. WHEN THE QUANTITY OF ITEMS OF BASE OR SURFACE COURSE IS MEASURED BY THE MEGAGRAM, THE DEPTH OR THICKNESS OF THE COURSES SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

4. SNOW PLOWABLE MEDIAN NOSES SHALL BE CONSTRUCTED FOR ALL MEDIANS.

5. ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM THE ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES OR FROM THE GRUBBING OF TREES OR STUMPS SHALL BE BACK-FILLED WITH GRANULAR BACKFILL.

6. ALL DISTURBED NON-PAVED AREAS SHALL BE COVERED WITH SALVAGED TOPSOIL AND SODDED OR SEEDED AND FERTILIZED AS DIRECTED BY THE ENGINEER.

7. DRIVEWAY LOCATIONS ON PLAN ARE APPROXIMATE AND MAYBE LOCATED AS DIRECTED BY THE ENGINEER.

8. ALL EXISTING DRIVEWAYS AND CONCRETE WALKS, WHEN DISTURBED SHALL BE REPLACED IN KIND IN THEIR EXISTING LOCATIONS UNLESS SPECIFICALLY INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

9. CONCRETE CURB AND GUTTER GRADES ARE TO THE FLANGE.

10. CONCRETE CURB AND GUTTER RADII ARE TO THE FLANGE.

11. 100 MM ASPHALTIC CONCRETE PAVEMENT TYPE HV, (FOR SIDE ROADS), SHALL BE CONSTRUCTED WITH A 40 MM SURFACE COURSE AND A 60 MM BINDER COURSE.

12. 150 MM ASPHALTIC CONCRETE PAVEMENT TYPE HV (FOR SIDE ROADS), SHALL BE CONSTRUCTED WITH A 50 MM SURFACE COURSE AND TWO 50 MM BINDER COURSES.

13. TACK COAT HAS BEEN ESTIMATED AT AN APPLICATION RATE OF 0.3 LITERS PER SQUARE METER AND SHALL BE APPLIED BETWEEN LAYERS OF ASPHALTIC PAVEMENT.

14. TERRACE DISTANCES ARE FROM BACK OF CURB.

15. EXCAVATION BELOW SUBGRADE (EBS) IS DETERMINED BY THE ENGINEER SHALL BE PAID FOR AS UNCLASSIFIED EXCAVATION. THE LOCATION OF EBS IS NOT USED TO BALANCE EARTHWORK.

16. THE CONCRETE PAVEMENT REMOVAL QUANTITY IS INCLUDED IN THE UNCLASSIFIED EXCAVATION QUANTITY.

17. EXPANSION JOINTS ARE TO BE CONSTRUCTED AT ALL RADIUS POINTS IN CURB AND GUTTER ADJACENT TO ASPHALTIC PAVEMENT. MATCH CURB AND GUTTER PERPENDICULAR JOINT SPACING TO THE CONCRETE PAVEMENT TRANSVERSE JOINTS.

18. PIPE ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

19. CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE PLACED WITH 100 MM MINIMUM DEPTH.

20. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

21. MOBILIZATION FOR THE MAINTENANCE AND REMOVAL OF EROSION CONTROL DEVICES AND THE REMOVAL OF SUCH ITEMS, WILL BE INCIDENTAL TO THEIR RESPECTIVE ITEMS.

22. MOVING SIGNS WILL BE STORED AT A LOCATION APPROVED BY THE ENGINEER, FREE FROM DAMAGE, UNTIL SUCH TIME THEY ARE INSTALLED.

23. DITCHES ALONG USH 151 ARE SPECIAL DITCHES. A COMPUTER GENERATED SPREADSHEET OF THE DITCH OFFSETS AND ELEVATIONS WILL BE PROVIDED TO THE CONTRACTOR.

INDEX OF TYPICAL SECTIONS, & DETAIL SHEETS

TITLE	SHEET NO.
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TYPICAL SECTIONS	2.2
CONSTRUCTION DETAILS	2.4
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EROSION CONTROL AND REMOVALS	2.32
PERMANENT SIGNING PLAN	2.50
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PAVEMENT MARKING PLAN	2.75
TRAFFIC CONTROL PLAN	2.88
CONSTRUCTION STAGING PLAN	2.103
ALIGNMENT PLAN	2.109

METRIC SOD LIST

8 A 5-15a	INLET COVERS, TYPE A, H, A-S, & H-S
8 A 5-15b	INLET COVERS, TYPE B, B-A, C, MS, MS-A & WM
8 A 5-15c	INLET COVERS, TYPE F, HM, HM-S, S, V, HM-GJ, & HM-GJ-S
8 A 5-15d	INLET COVERS, TYPE Z MANHOLE COVERS, TYPE K,J,J-S,L & M
8 A 6-3	CATCH BASINS TYPE 1 & 2
8 B 6-3	MANHOLES, TYPE 1
8 C 5-2	INLETS, TYPE 8, 9, 10 AND 11
8 D 1-12	CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES
8 D 4-3	CONCRETE SURFACE DRAIN & ASPHALTIC FLUME
8 D 15-2a	EDGEDRAIN OUTLET DETAILS
8 D 15-2b	EDGEDRAIN AND CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 1 OR NO. 2
8 E 8-2	TYPICAL INSTALLATIONS OF EROSION BALES
8 E 9-5	SILT FENCE
8 F 1-11	APRON ENDWALLS FOR CULVERT PIPE
8 F 6-4	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
9 A 1-11a	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE
9 B 2-6	CONDUIT
9 B 4-3	PULL BOX
9 C 2-2	CONCRETE BASES
9 C 5-2	CONCRETE CONTROL CABINET BASE
9 C 8-1	CONCRETE BASE, TYPE 7
9 D 1-2	CABINET SERVICE INSTALLATION
9 D 2-2	SIGNAL OR LIGHTING CONTROL CABINET
9 E 1-2A	POLE MOUNTINGS FOR TRAFFIC SIGNALS, TYPE 2
9 E 1-2B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING, TYPE 3
9 E 1-2F	HARDWARE DETAILS FOR POLE MOUNTINGS
9 E 6-1	TRAFFIC SIGNAL STANDARD, POLY BRACKET MOUNTINGS, (TYP), 13 FT OR 15 FT
9 F 12-2	LOOP DETECTOR INSTALLED IN EXISTING CONCRETE PAVEMENT
9 F 13-2	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
10 HL 1-1	ELECTRICAL HANDHOLE WIRING
10 HL 3-1	IDENTIFICATION PLAQUES SIGN BRIDGES
10 HL 5-1	GROUND MOUNT LIGHT POLES
10 HL 16-1	SIGN BRIDGE STRUCTURE GROUNDING
10 HL 17-1	POLES, TYPE 7 A, C & E
10 HL 18-1	LUMINAIRE ARMS
11 B 1-1	CONCRETE CORRUGATED MEDIAN
11 B 2-1	CONCRETE MEDIAN NOSE
13 C 1-10	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND PAVEMENT TIES
13 C 13-3	URBAN DOWELED CONCRETE PAVEMENT
13 C 16-1	CONCRETE JOINT DETAIL FOR TEE INTERSECTION BYPASS LANE AND RIGHT TURN LANE
14 B 7-9a	TEMPORARY PRECAST CONCRETE BARRIER
14 B 7-9b	TEMPORARY PRECAST CONCRETE BARRIER END SECTION AND PORTABLE CRASH CUSHION
15 A 3-1	MARKER POSTS, FLEXIBLE, FOR CULVERT ENDS
15 C 7-6a	PAVEMENT MARKING SYMBOLS
15 C 8-8a	PAVEMENT MARKING (MAINLINE)
15 C 8-8b	PAVEMENT MARKING (INTERSECTIONS)
15 C 8-8d	PAVEMENT MARKING (LEFT TURN LANE)
15 C 8-8e	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15 C 10-5a	RAISED PAVEMENT MARKERS (MAINLINE)
15 C 10-5c	RAISED PAVEMENT MARKERS (CASTING & SAWCUT DETAILS)
15 C 11-5	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15 C 12-2	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
16 A 1-5	LANDMARK REFERENCE MONUMENTS AND COVERS

UTILITIES

RALPH SCHRAVEN
MARCUS CABLEVISION
55 W SCOTT STREET P O BOX 1197
FOND DU LAC WI 54935
920-923-7196

BRIAN PATRICK
WISCONSIN POWER & LIGHT
126 N MAIN STREET
FOND DU LAC WI 54935
920-929-6765

PEGGY FORSETH
AMERITECH
70 E DIVISION STREET
FOND DU LAC WI 54935
920-929-1056

JEROME BINOTTO
ANR PIPE LINE CO
W3925 PIPE LINE LANE
EDEN WI 53019-0316
920-477-4211 EXT 11

ERNEST G WINTERS
COUNTY HIGHWAY COMMISSIONER
COUNTY OF FOND DU LAC
P O BOX 1234
FOND DU LAC WI 54935-1234
920-929-3485

J WILLIAM ROEMER
DIRECTOR OF PUBLIC WORKS
CITY OF FOND DU LAC
P O BOX 150
FOND DU LAC WI 54935-0150
920-929-3338

MARK LENTZ
CITY ENGINEER
CITY OF FOND DU LAC
160 S MACY STREET P O BOX 150
FOND DU LAC WI 54935-0150
920-929-3338

AL STRANZ
WI DNR / NE AREA
1125 N MILITARY AVENUE
P O BOX 10448
GREEN BAY, WI 54307-0448

ELIZABETH SCHNEIDER
WIS DOT - SIGNALS
2000 PEWAUKEE ROAD P O BOX 798
WAUKESHA WI 53187-0798
414-521-5356

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE

TOLL FREE 1-800-242-8511
MILWAUKEE AREA (414) 259-1181
TELEFAX 1-800-338-3860
TDD (For hearing impaired) 1-800-542-2289

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

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REV. DATE: 12/30/98
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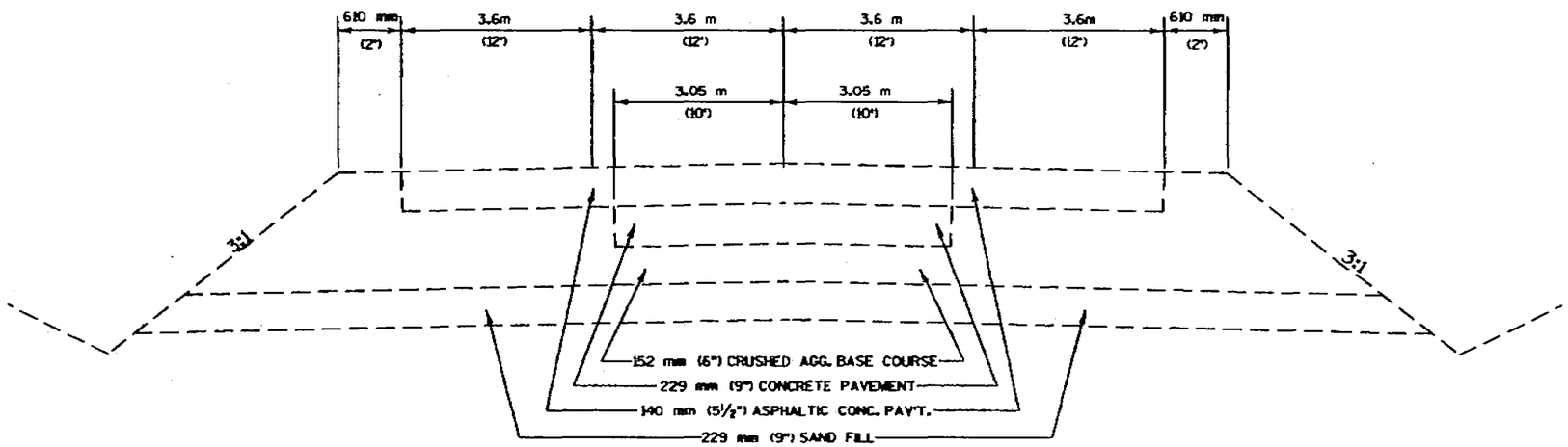
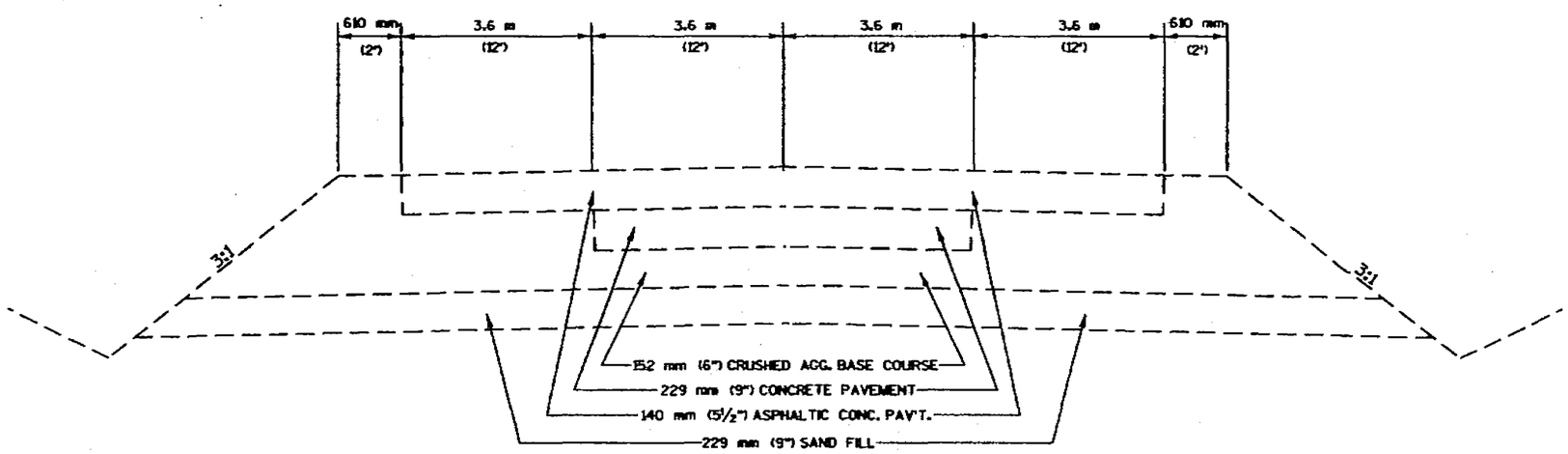


EXISTING TYPICAL SECTION
STA. 23+600 - STA. 24+600



EXISTING TYPICAL SECTION
STA. 24+600 - STA. 26+500

1

TYPICAL SECTIONS	SCALE: 1:NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.2	M

FILE NAME: 1420071SU+yp.dgn ORIGINATOR: DISTRICT 2 REV. DATE: PLOT SCALE: 1 PLOT DATE:
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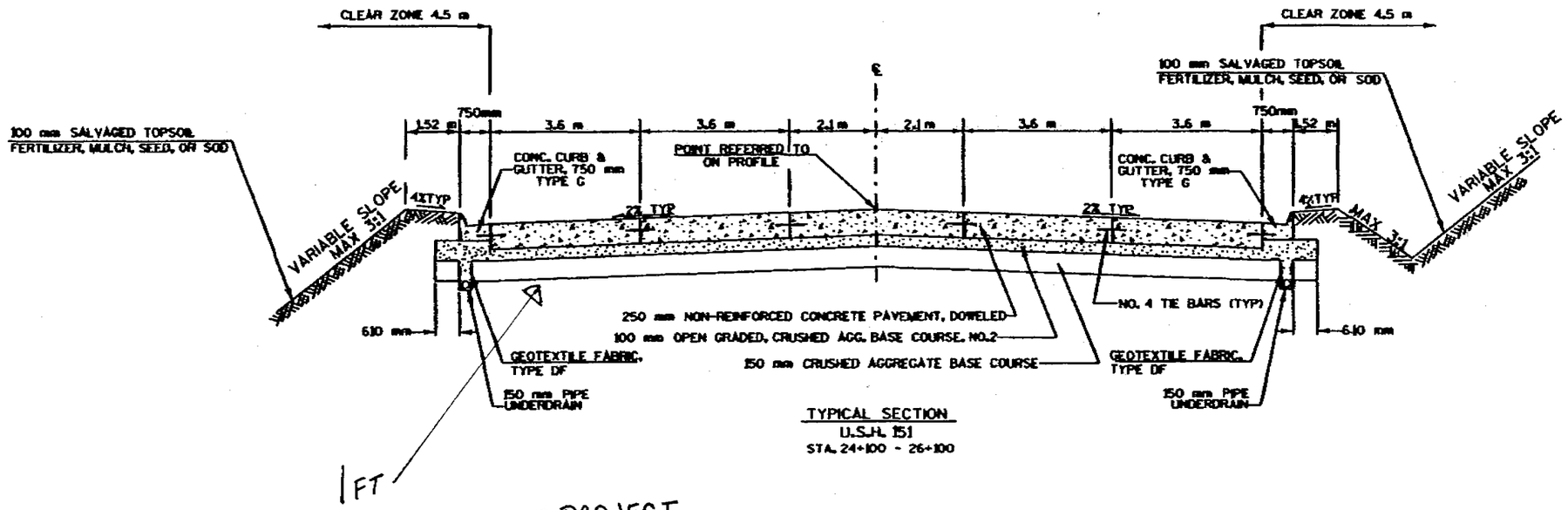
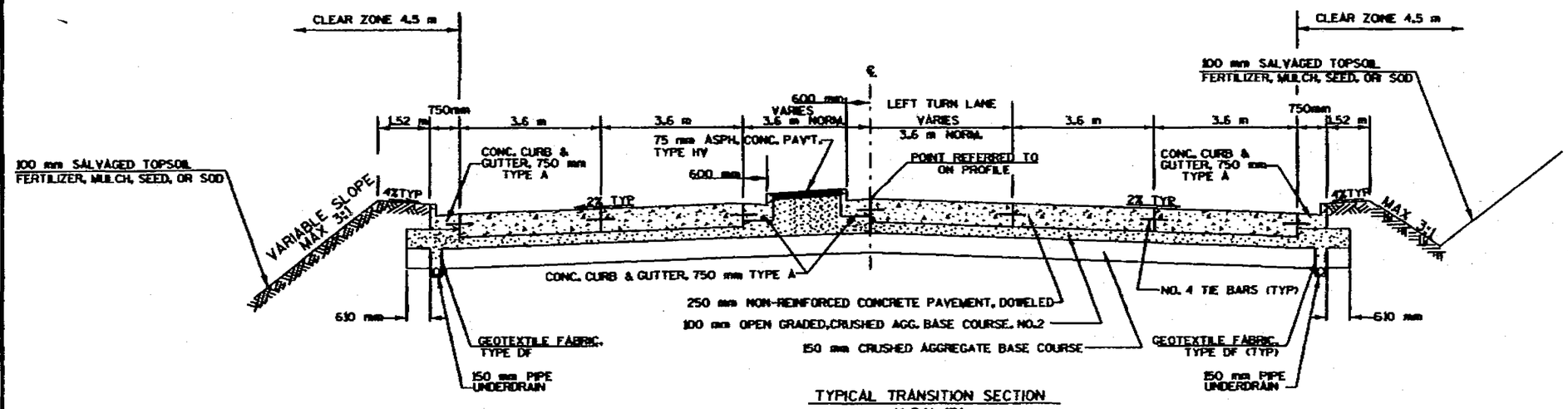
WisDOT: MSHT20



TYPICAL SECTION
U.S.H. 151
STA. 24+100 - 26+100



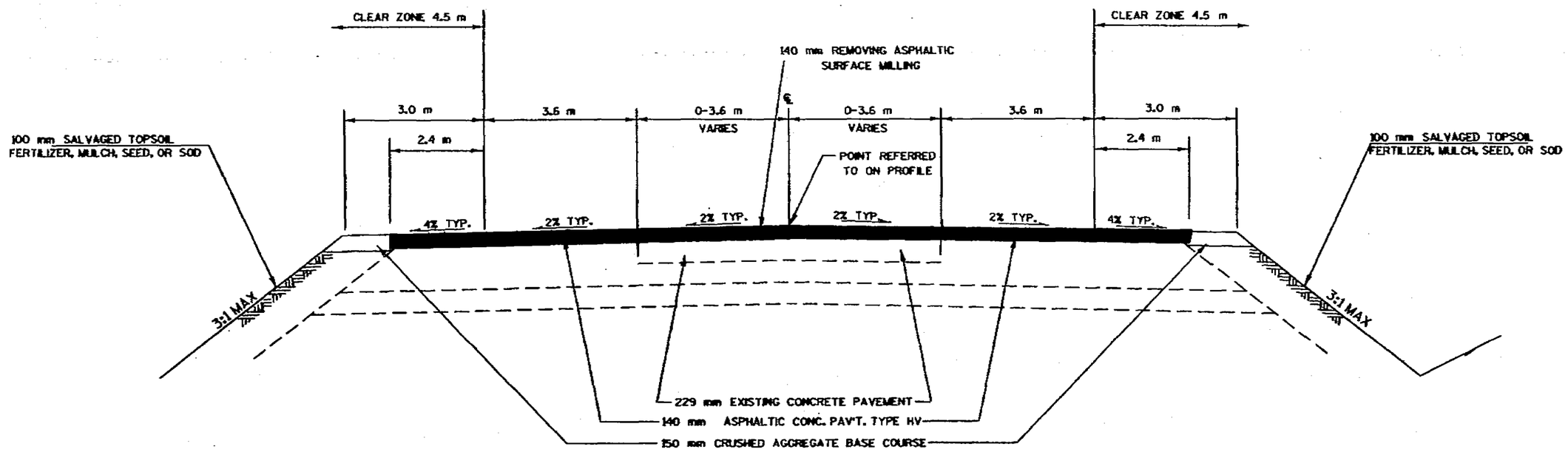
TYPICAL TRANSITION SECTION
U.S.H. 151
STA. 26+100 - 26+320
CTH VVV (10+010 - 10+040)
ROLLING MEADOWS DR (9+959 - 9+990)

NOTE: WIDTH AND LOCATION OF TURN LANE & MEDIAN ISLAND VARIES THROUGH TRANSITION AREA.

5

TYPICAL SECTIONS	SCALE: 1:NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 23	M

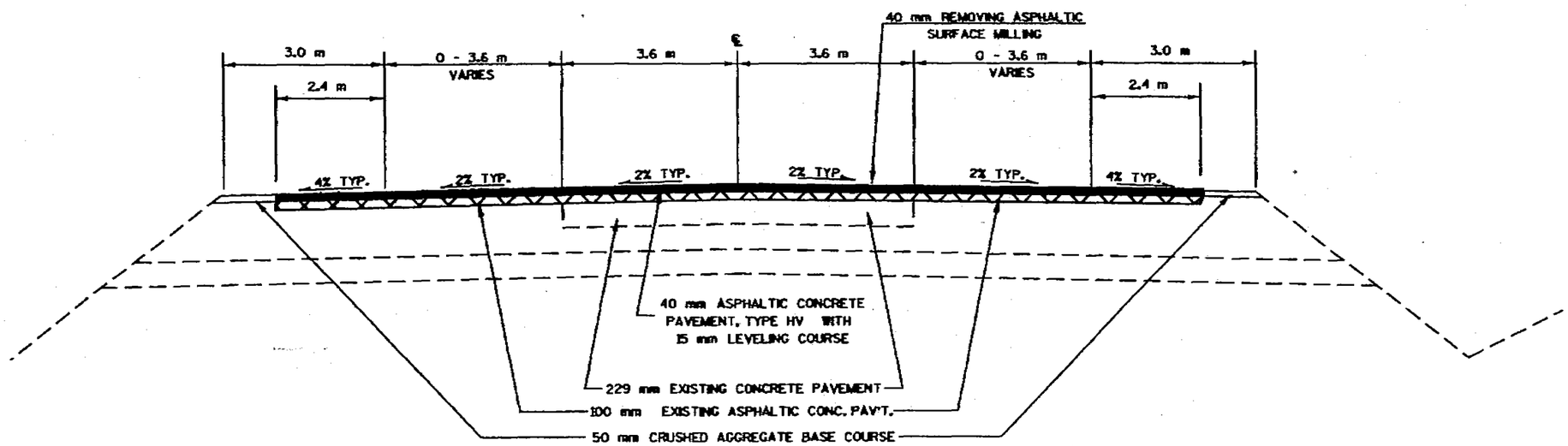
2/4



TYPICAL SECTION

U.S.H. 151

STA. 26+340 - STA. 26+440



TYPICAL SECTION

U.S.H. 151

STA. 26+440 - STA. 26+658

TYPICAL SECTIONS	SCALE: 1:NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.4	M

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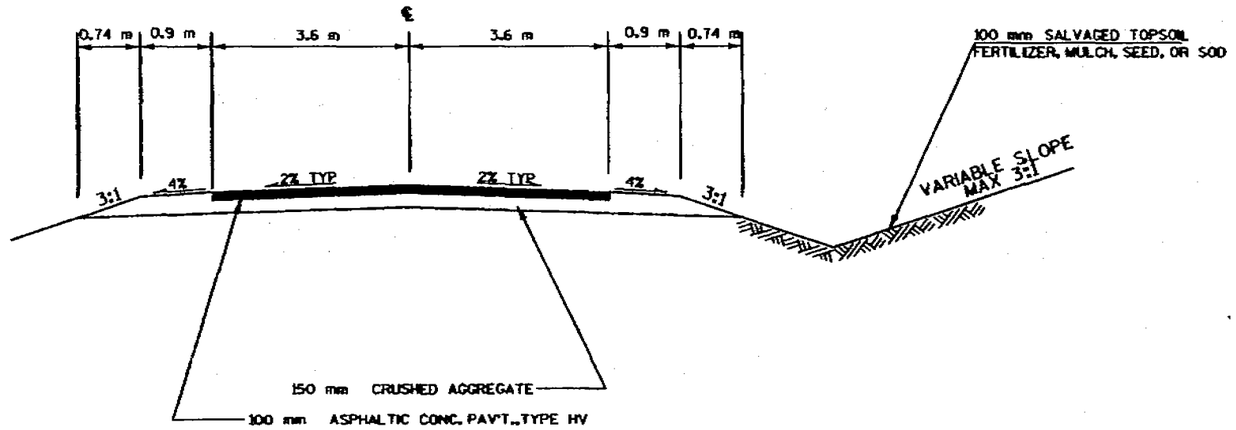
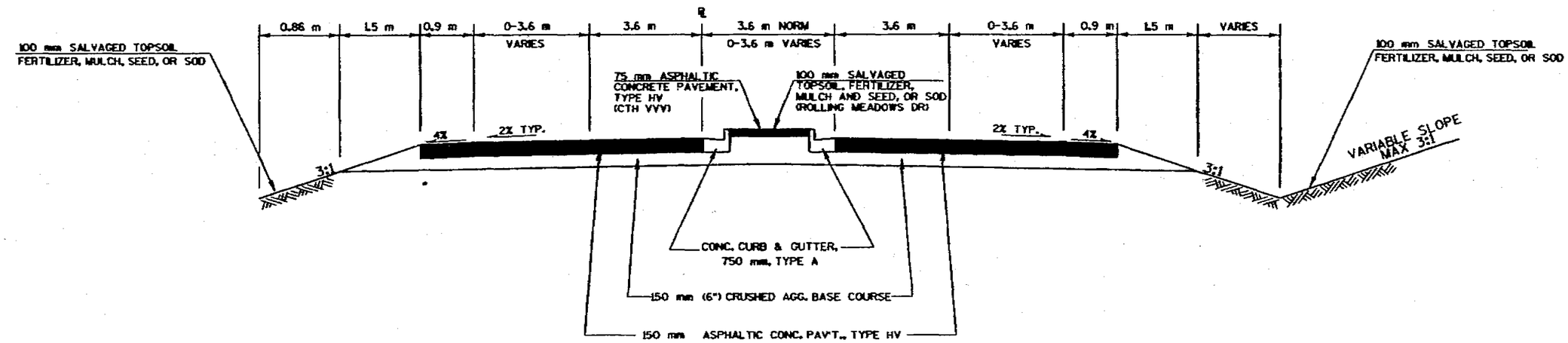


TYPICAL SECTION
SIDE ROADS:
COMMERCE CT.
RIVER RD
BROWN RD
TERRACE RD.



TYPICAL SECTION
ROLLING MEADOWS DRIVE (9+905 - 9+980)
CTHVVV (10+020 - 10+200)

7

TYPICAL SECTIONS	SCALE: 1:NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.5	M

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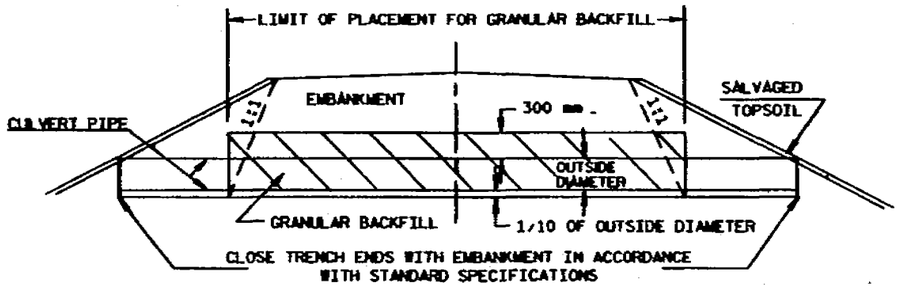
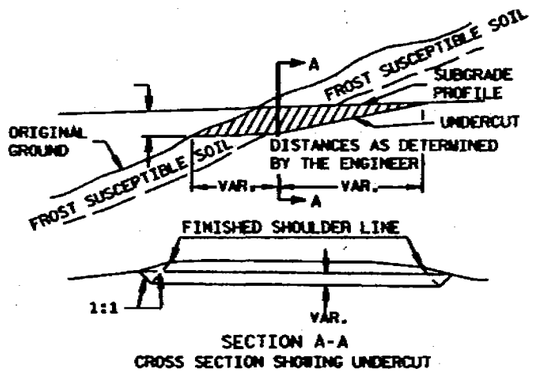
WISDOT: MSHT20

4/4



CULVERT BACKFILL DETAIL



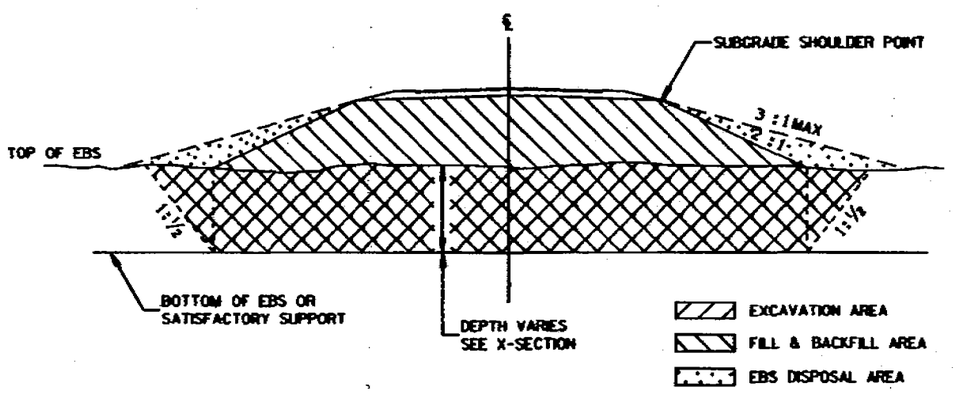
NOTE:
EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER.

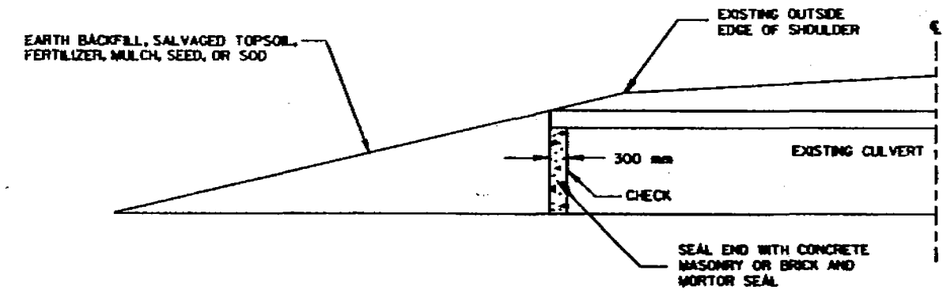
BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.

THE FILL SECTION WITHIN 30 m OF THE MOUTH OF THE CUT MUST BE KEPT 600 mm BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.

DETAIL FOR EXCAVATION BELOW SUBGRADE AT CUTS

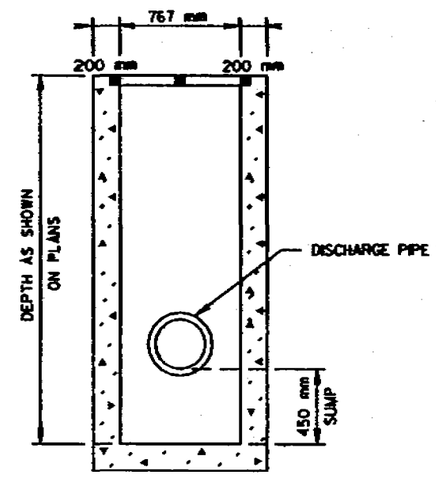


TYPICAL EBS EXCAVATION SECTION



ABANDONING CULVERT PIPE

TYPICAL ½ SECTION, SYMMETRICAL ABOUT ℄



INLET, TYPE 8 MODIFIED (WITH SUMP)

FOR ADDITIONAL DETAILS SEE SDD

CONSTRUCTION DETAILS	SCALE: 1: NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.6

FILE NAME: 42 1420071SBeds.dgn
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ORIGINATOR: DISTRICT 8
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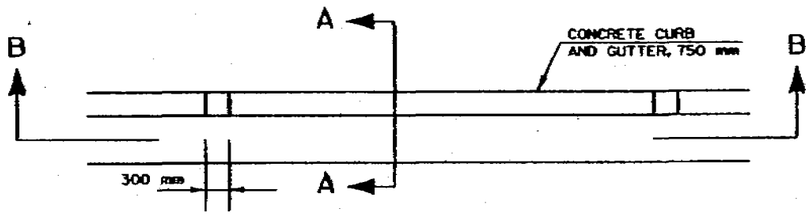
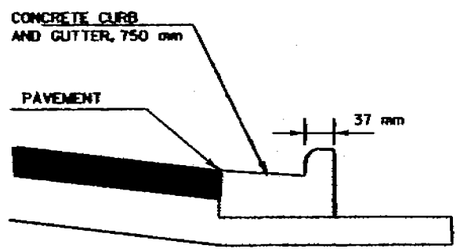
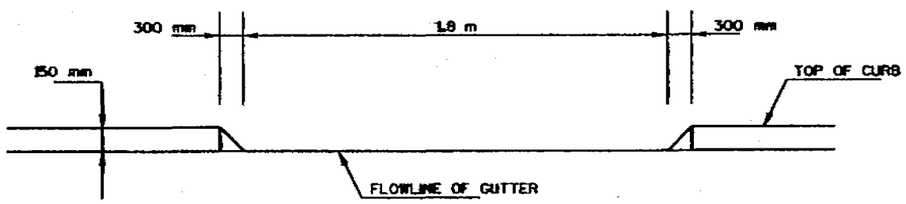
PLOT DATE: 08-JAN-1999 14:08
REV. DATE:
WisDOT: MSHT20



PLAN VIEW

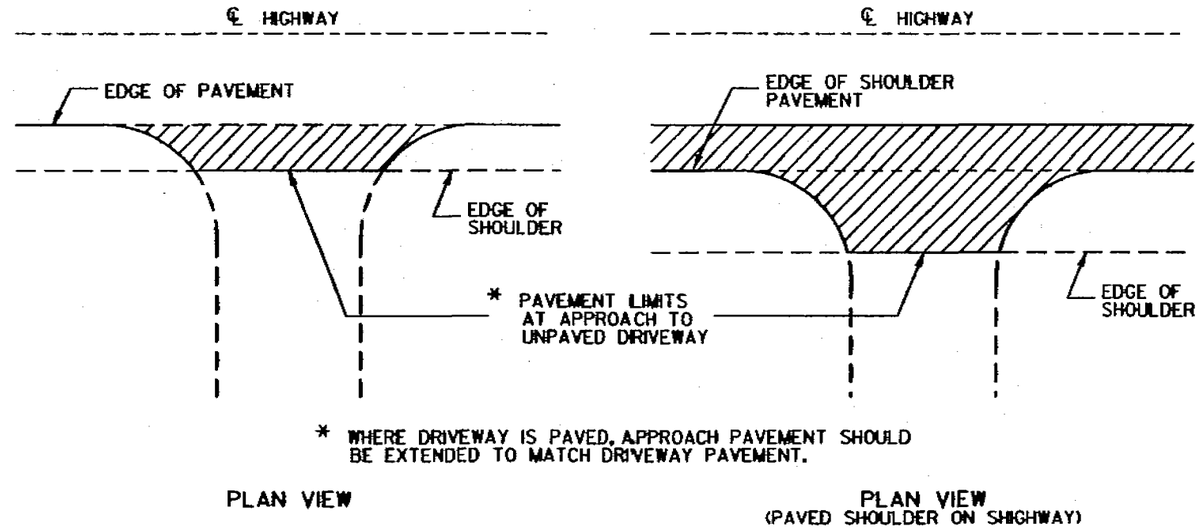


SECTION A-A



SECTION B-B

MAINTENANCE RAMP

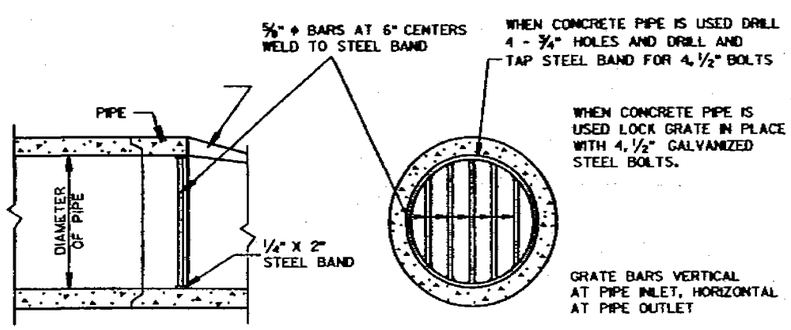


* WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON SHIGHWAY)

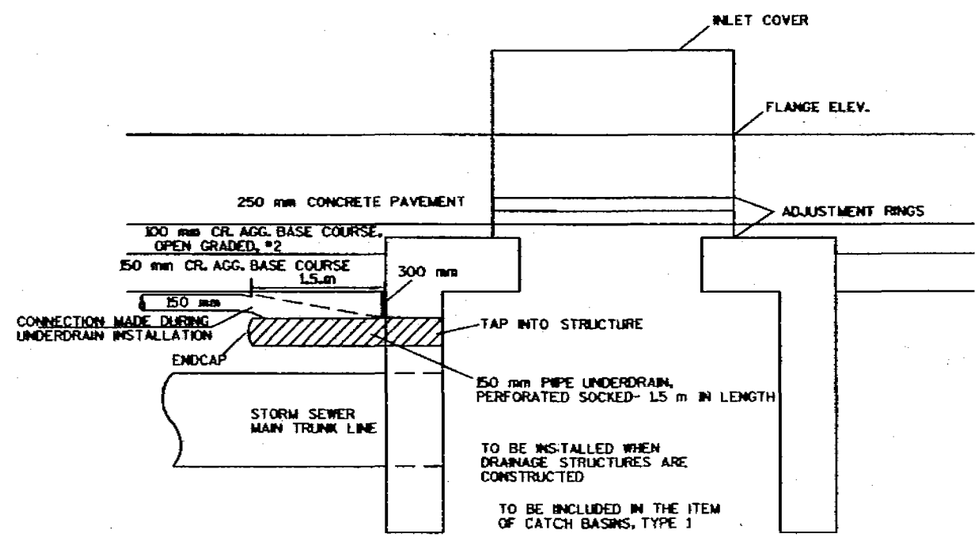
RURAL DRIVEWAY INTERSECTION DETAIL



LONGITUDINAL SECTION

END VIEW

PIPE END GRATE DETAIL



SUBGRADE DRAINAGE DETAIL

CONSTRUCTION DETAILS	SCALE: 1: NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.7	M

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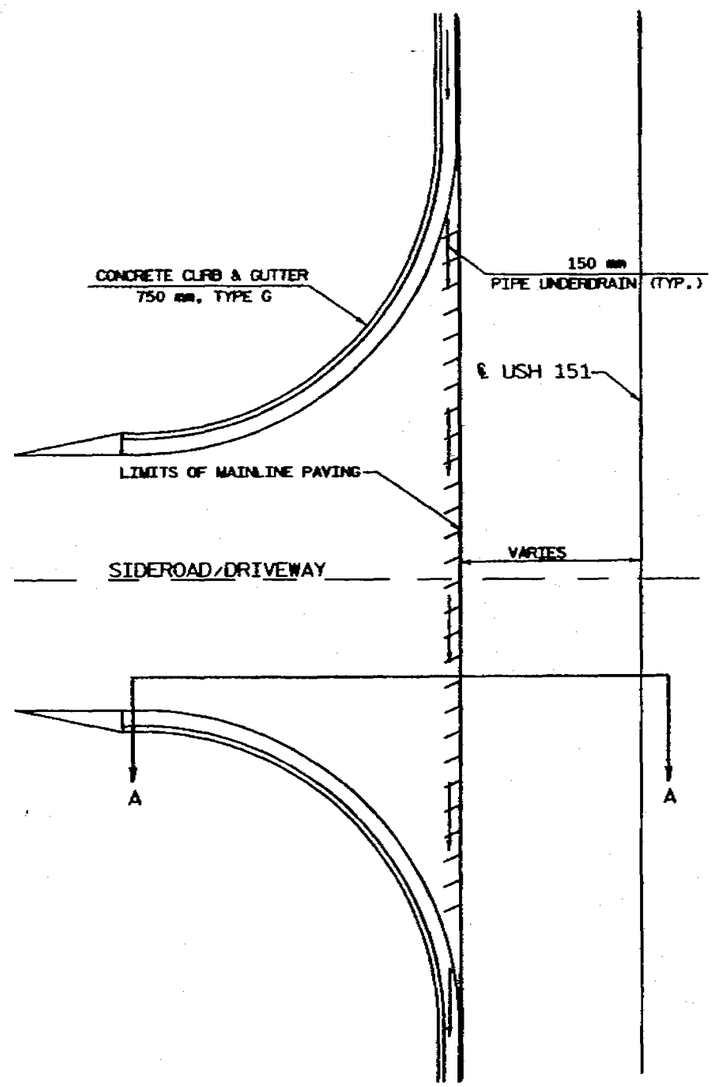
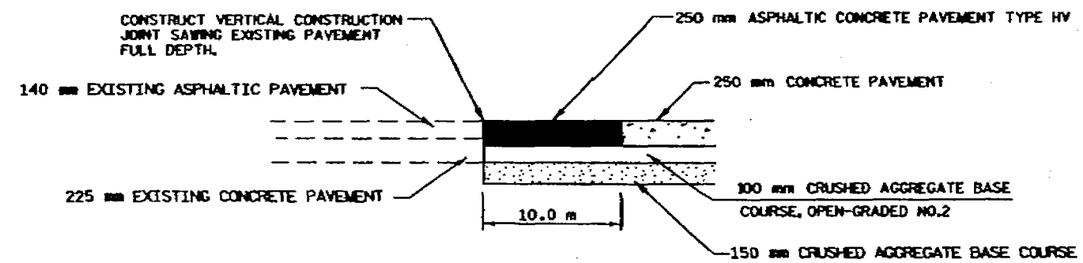
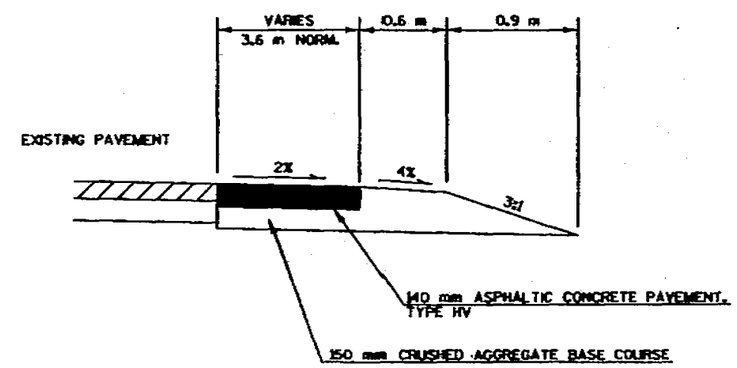
REV. DATE:
2/6



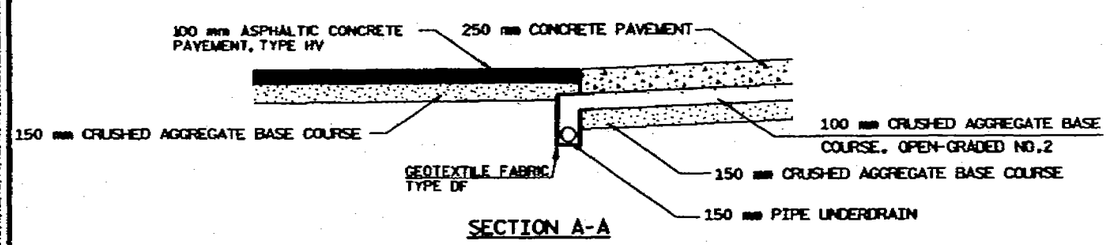


MAINLINE PAVEMENT CONSTRUCTION JOINT DETAIL



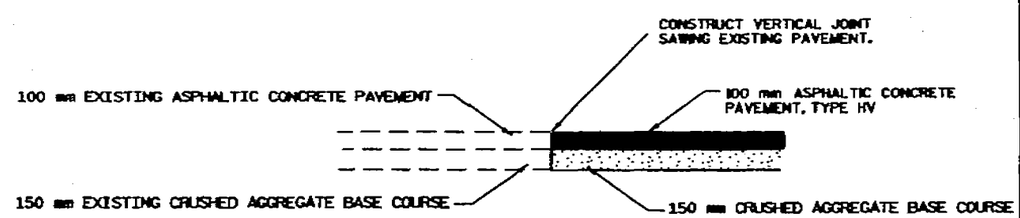
TEMPORARY WIDENING

USH 151 STA 26+100 TO 26+290 RT.
USH 151 STA 26+300 TO 26+400 RT.
USH 151 STA 26+300 TO 26+360 LT.
ROLLING MEADOWS DRIVE STA. 9+880 TO 9+980 RT
CTH VVV STA. 10+020 TO 10+300 RT



SECTION A-A

LIMITS OF MAINLINE PAVING

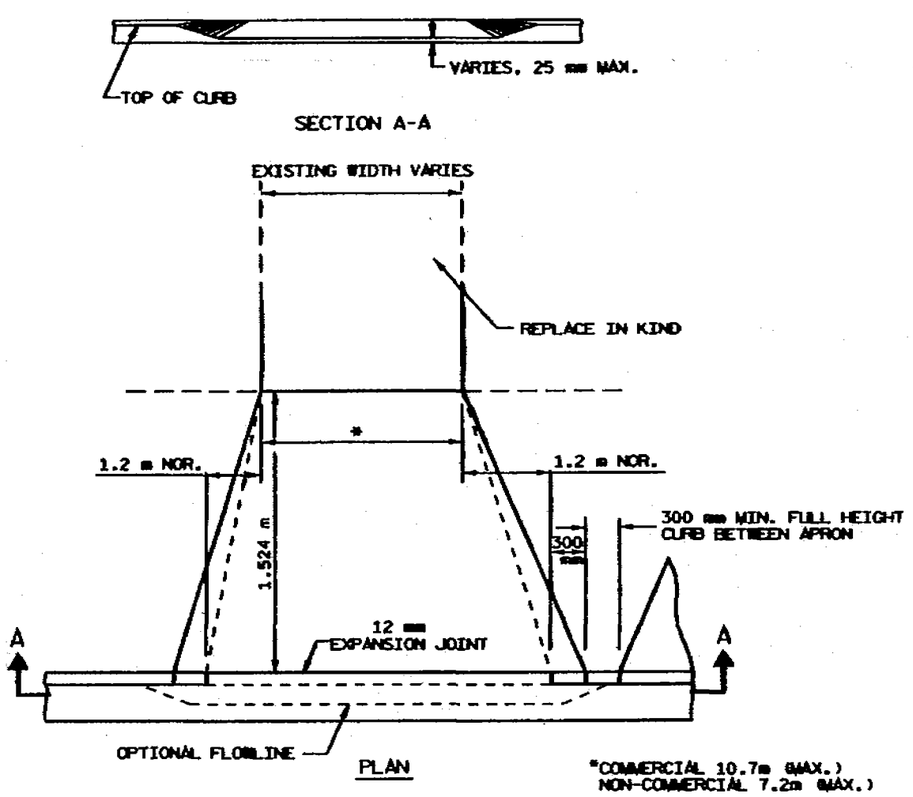


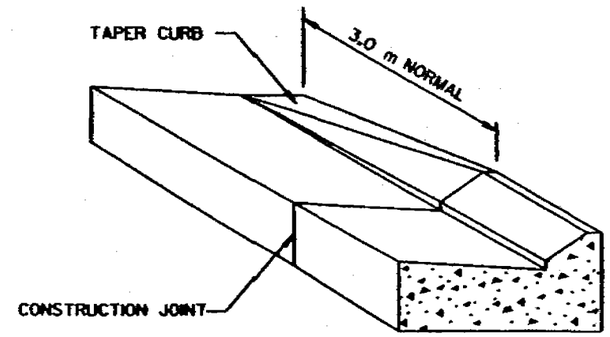
SIDEROAD PAVEMENT BUTT JOINT DETAIL

CONSTRUCTION DETAILS	SCALE: 1: NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.8	M

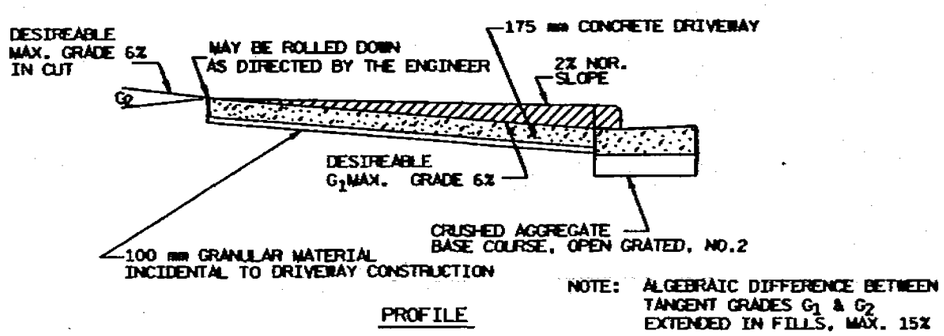
3/6

FILE NAME: ... ORIGINATOR: DISTRICT 8 PLOT SCALE: ... PLOT DATE: ... REV. DATE: ... LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
WisDOT: MSHT20

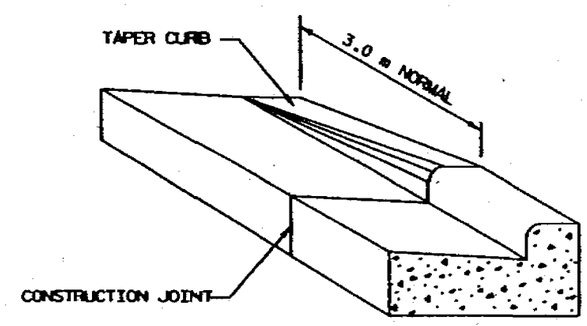




DETAIL OF CURB & GUTTER TYPE G TERMINI



URBAN DRIVEWAY DETAIL



DETAIL OF CURB & GUTTER TYPE A TERMINI

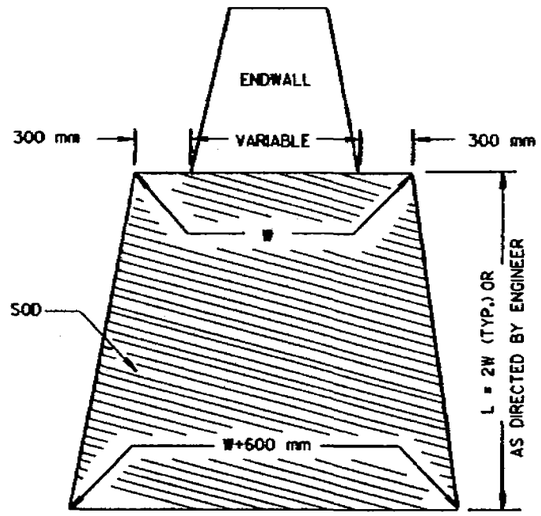
CONSTRUCTION DETAILS	SCALE: 1: NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.9	M

4/6

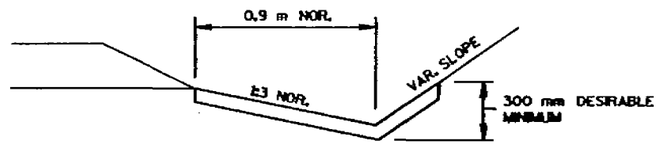
FILE NAME: sd 1420071SSsedsign ORIGINATOR: DISTRICT 2 PLOT SCALE: 2:0599999:1000000 PLOT DATE: 17-DEC-1999 10:44 REV. DATE:

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

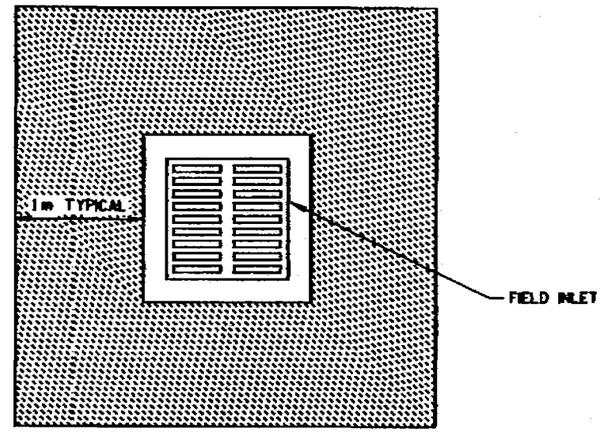
WisDOT: MSHT20



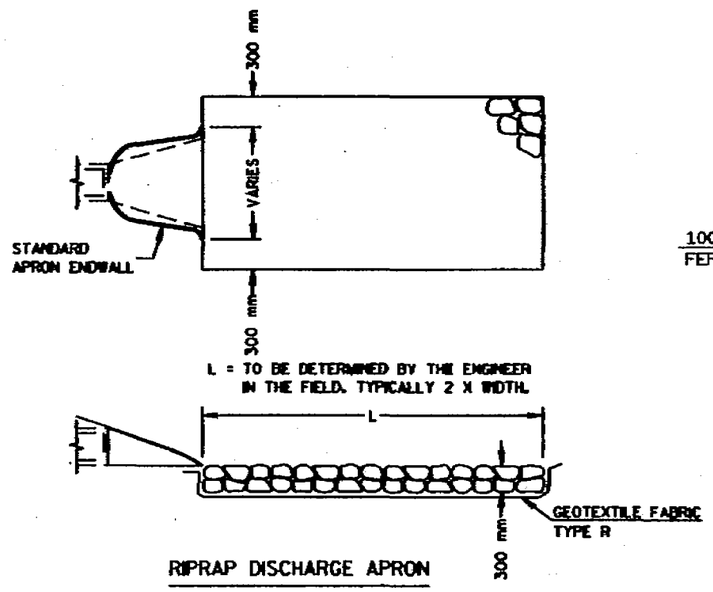
SOD TREATMENT AT CULVERTS



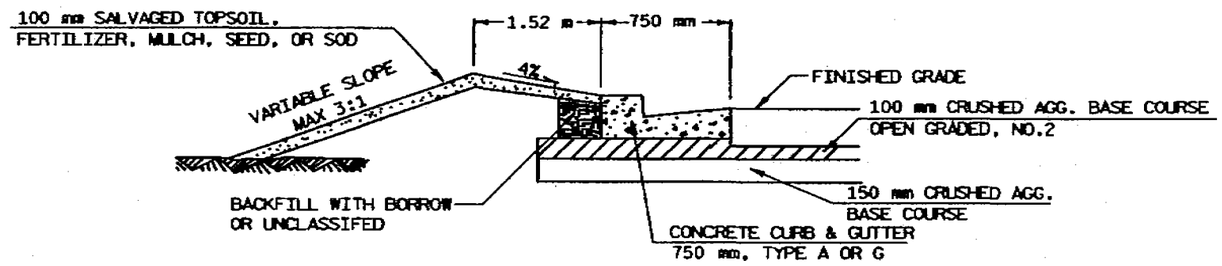
EROSION MAT DETAIL FOR DITCHES



SOD AT INLETS



RIPRAP DISCHARGE APRON

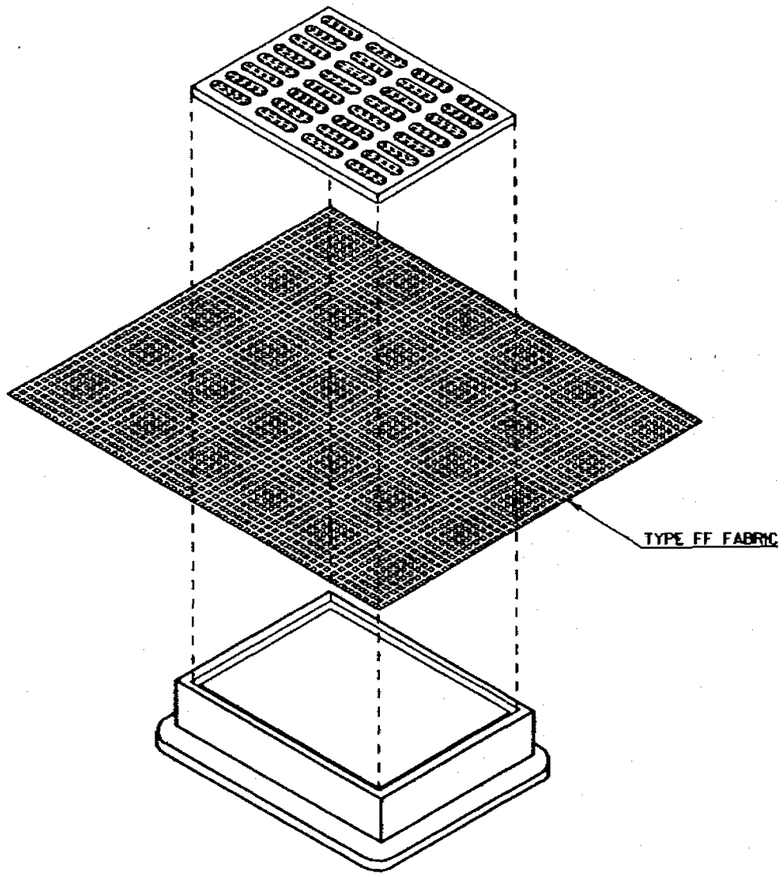


BERM DETAIL BEHIND CURB & GUTTER

CONSTRUCTION DETAILS	SCALE: 1: NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.10	M

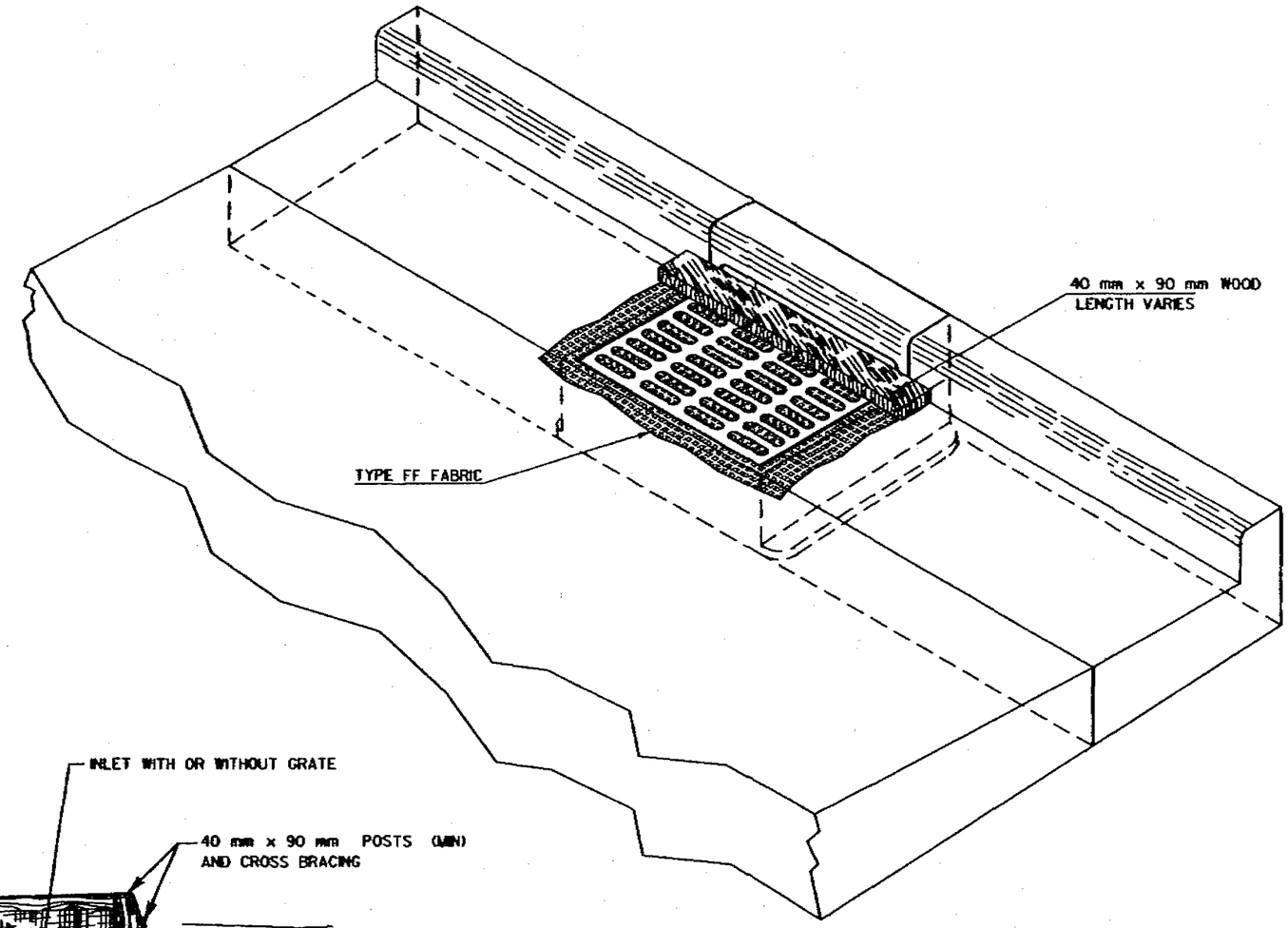
5/6

WisDOT: MSHT20



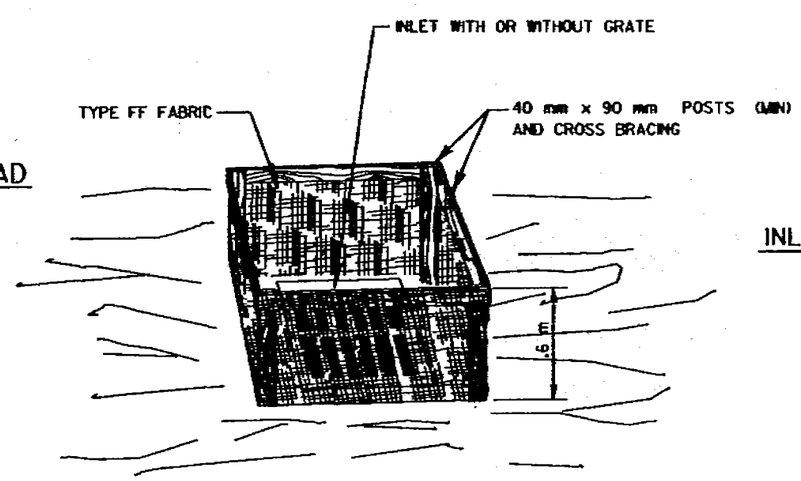
INLET PROTECTION WITHOUT CURB HEAD

(CAN BE INSTALLED ON ANY INLET TYPE)
(TYPE B)



INLET PROTECTION WITH CURB HEAD

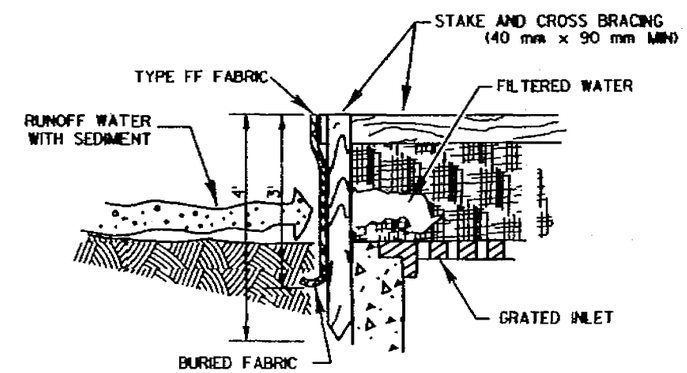
(TYPE C)



INLET SEDIMENT BARRIER

(TYPE A)

NOTE: ATTACH TYPE FF FABRIC TO THE TOP OF POSTS AND CROSS BRACINGS.



GENERAL NOTES:

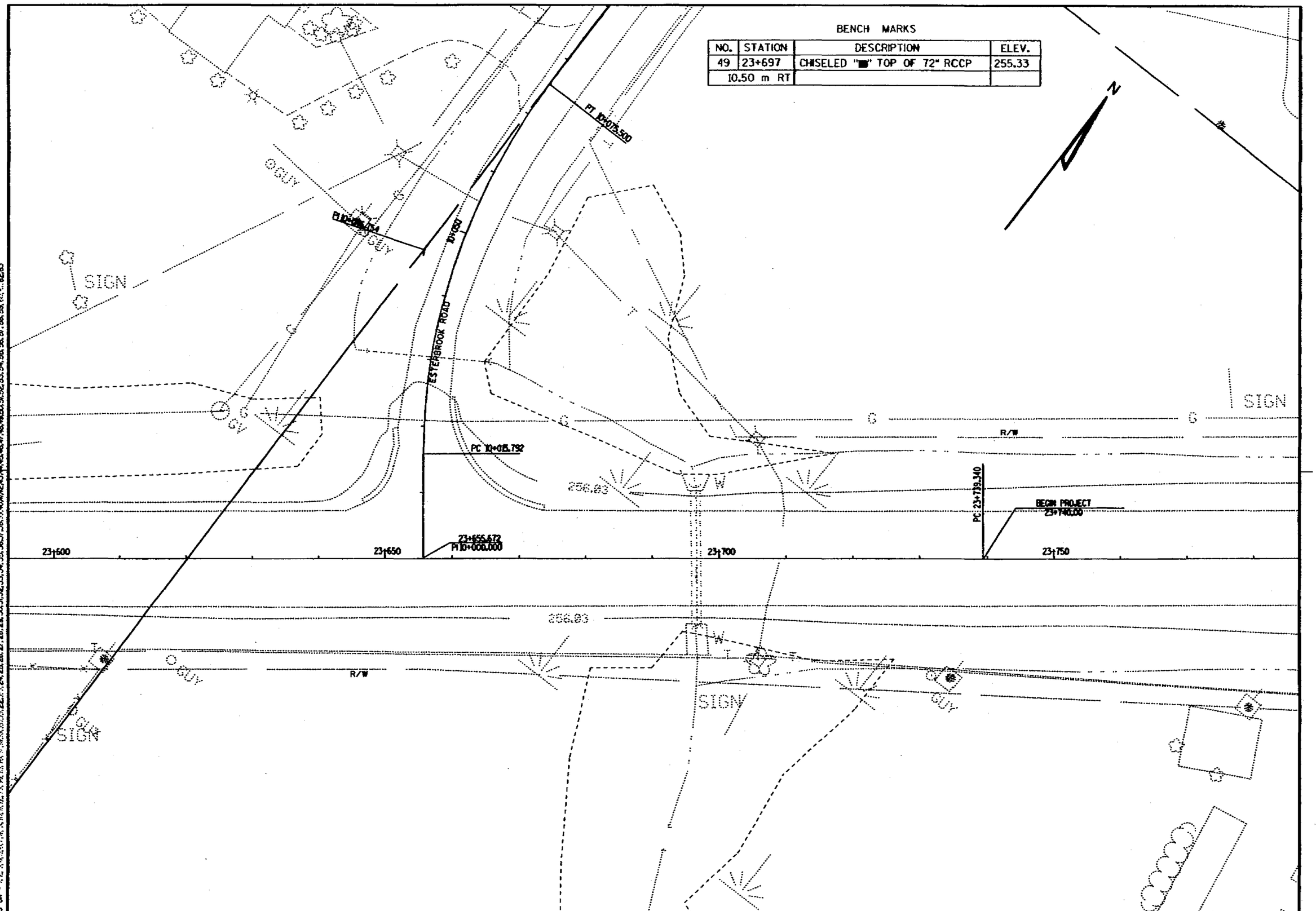
- FABRIC SIZE SHALL BE 150 mm GREATER ON ALL SIDES OF THE INLET COVER.
- FABRIC SHALL BE REPLACED AT THE ENGINEERS DISCRETION.
- THE WEIGHT OF INLET GRATE WILL HOLD FABRIC IN PLACE FOR INLET WITH OUT A CURB HEAD.
- FOR INLET WITH A CURB HEAD, AN ADDITIONAL 450 mm OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES.
- FOR INLET WITH A CURB HEAD, THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB HEAD.
- MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTIBILITY LIST MAY BE SUBSTITUTED.

CONSTRUCTION DETAILS	INLET PROTECTION TYPE A, B, AND C	SCALE: 1: NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.11	M

FILE NAME: d2 1420071Bilsed.dgn
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,
ORIGINATOR: DISTRICT 2
PLOT SCALE : 00.....DIGTOOGLE.....00 PLOT DATE: 00...DIGTIMEDATE...00
REV. DATE: 00
28,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57, 58,60,61,62,63
6/6

BENCH MARKS

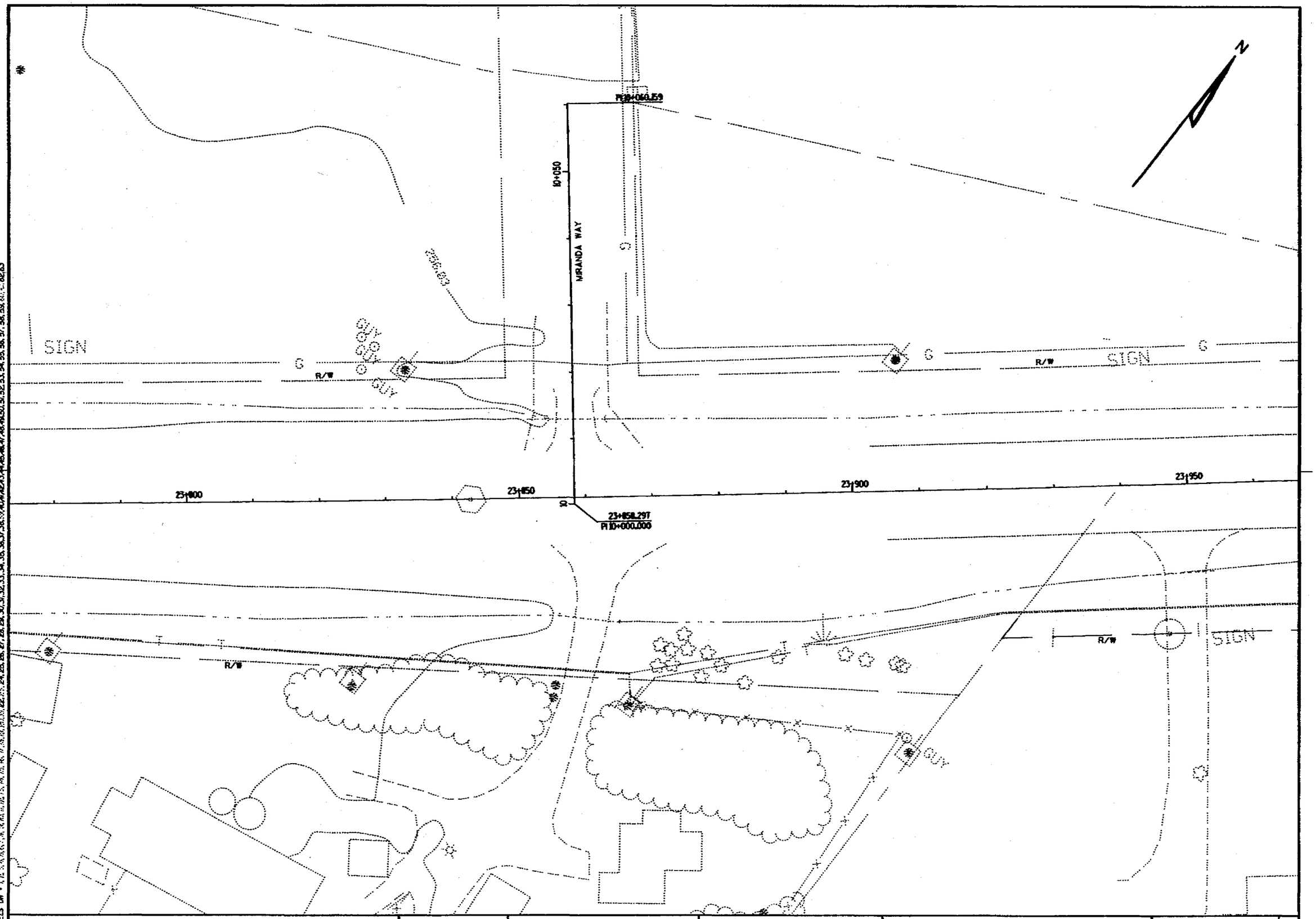
NO.	STATION	DESCRIPTION	ELEV.
49	23+697	CHISELED "■" TOP OF 72" RCCP	255.33
	10.50 m RT		



PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.12	M

FILE NAME: D2 1420071811P0251.DGN ORIGINATOR: DISTRICT 2 PLOT SCALE: 1 PLOT DATE: REV. DATE: 12/14/98

1/20



PLAN & DETAIL PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.13	M

FILE NAME: D:\1420070\SUPD288.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 11/10/98 PLOT SCALE: 1:250 PLOT DATE: 98/10/27

B.M. 23+979.9, 19.5 m LT. = 257.698

NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).

STA. 24+000 TO 24+100
7½" ASPH.
4" OGBC + 6" CABC

STORAGE

ACCESS GAP & TEMP. GRAVEL CROSS OVER

ASPHALT COMBI.

R/W

MATCH EXISTING STA 23+990

BEGIN CONCRETE PAVEMENT STA 24+000

BEGIN CURB & GUTTER STA 24+080

+080 FLUME

+100 ASPHALT

ASPHALT

257.978 258.067 258.155 258.244 258.333 258.422 258.519 258.616
258.050 258.139 258.227 258.316 258.405 258.494 258.591 258.688
258.122 258.211 258.299 258.388 258.477 258.566 258.663 258.760
258.219 258.316 258.413 258.511 258.608 258.705 258.802
0.42m 0.84m 1.26m 1.68m 2.472m 0.910m
24+050 24+100 USH 151

3.6 3.6 3.6 3.6 3.6 3.6 3.6 4.2 3.6 3.6

ACCESS GAP

GRAVEL COMBI.

ASPHALT COMBI.

NO EXISTING SIGN

SIGN

R/W

+100.027

ASPHALT

7 @ 5 m JOINT SPACING

TANK

PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.14	M

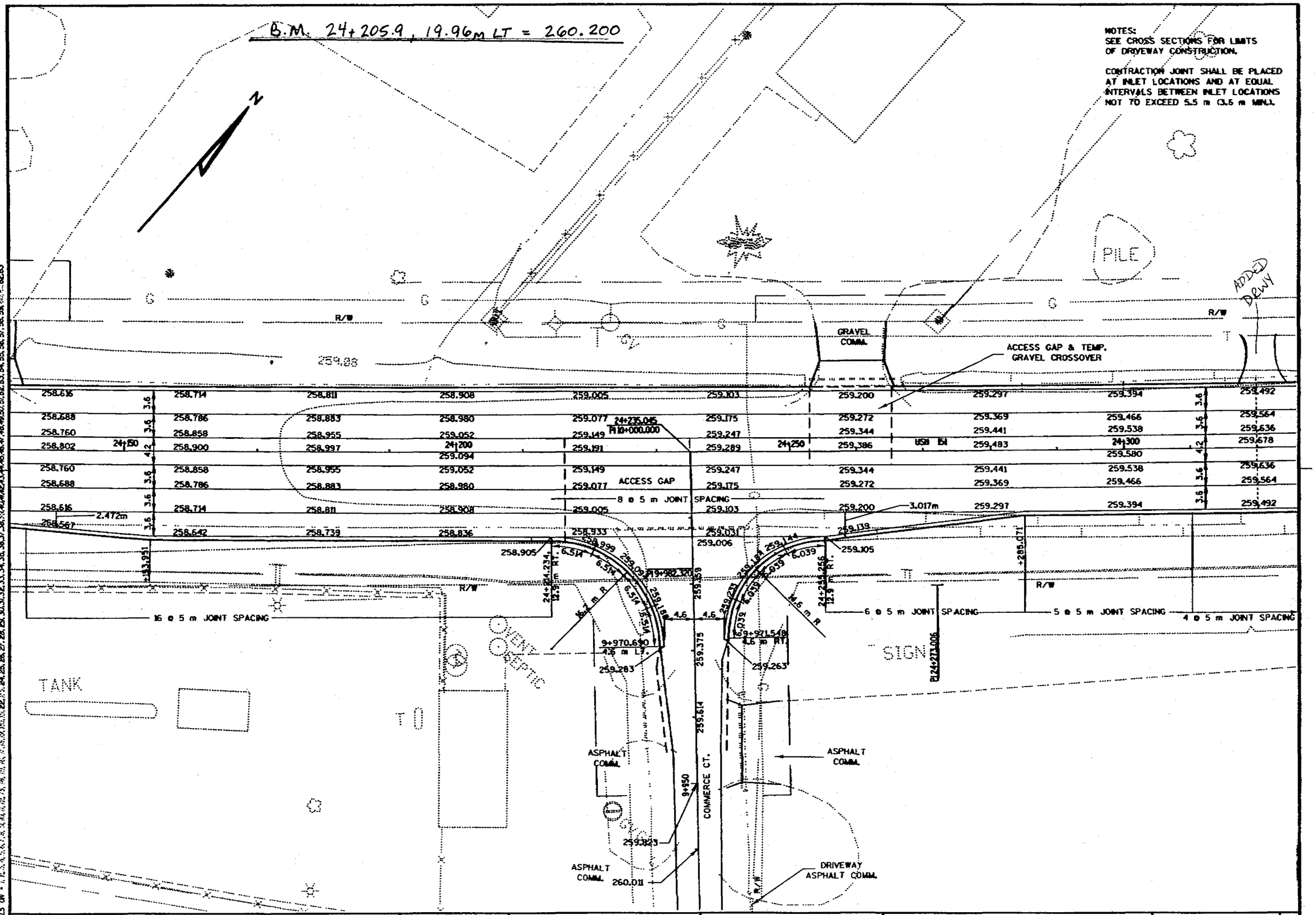
3/20

FILE NAME: D8 1420078UPD885.DGN ORIGINATOR: DISTRICT 8 REV. DATE: 12/14/98 PLOT SCALE: 1 PLOT DATE:

B.M. 24+205.9, 19.96m LT = 260.200

NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).



PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.15	M

4/20

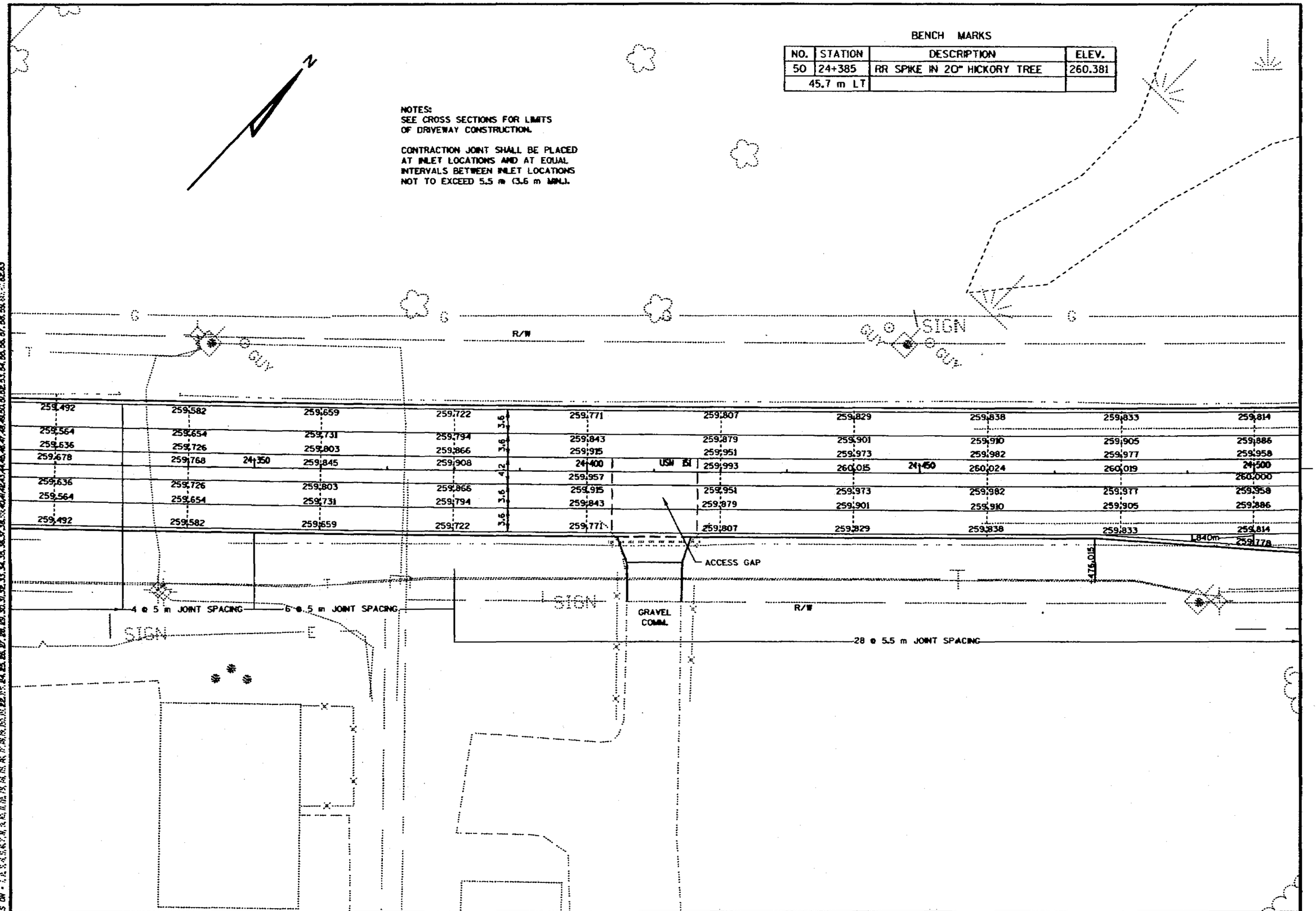
FILE NAME: D2 1420071SUPD284.DGN ORIGINATOR: DISTRICT 2 PLOT SCALE: 1 PLOT DATE: 08/14/98 REV. DATE: 10/14/98 LEVELS ON

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
50	24+385	RR SPIKE IN 20" HICKORY TREE	260.381
	45.7 m LT		

NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

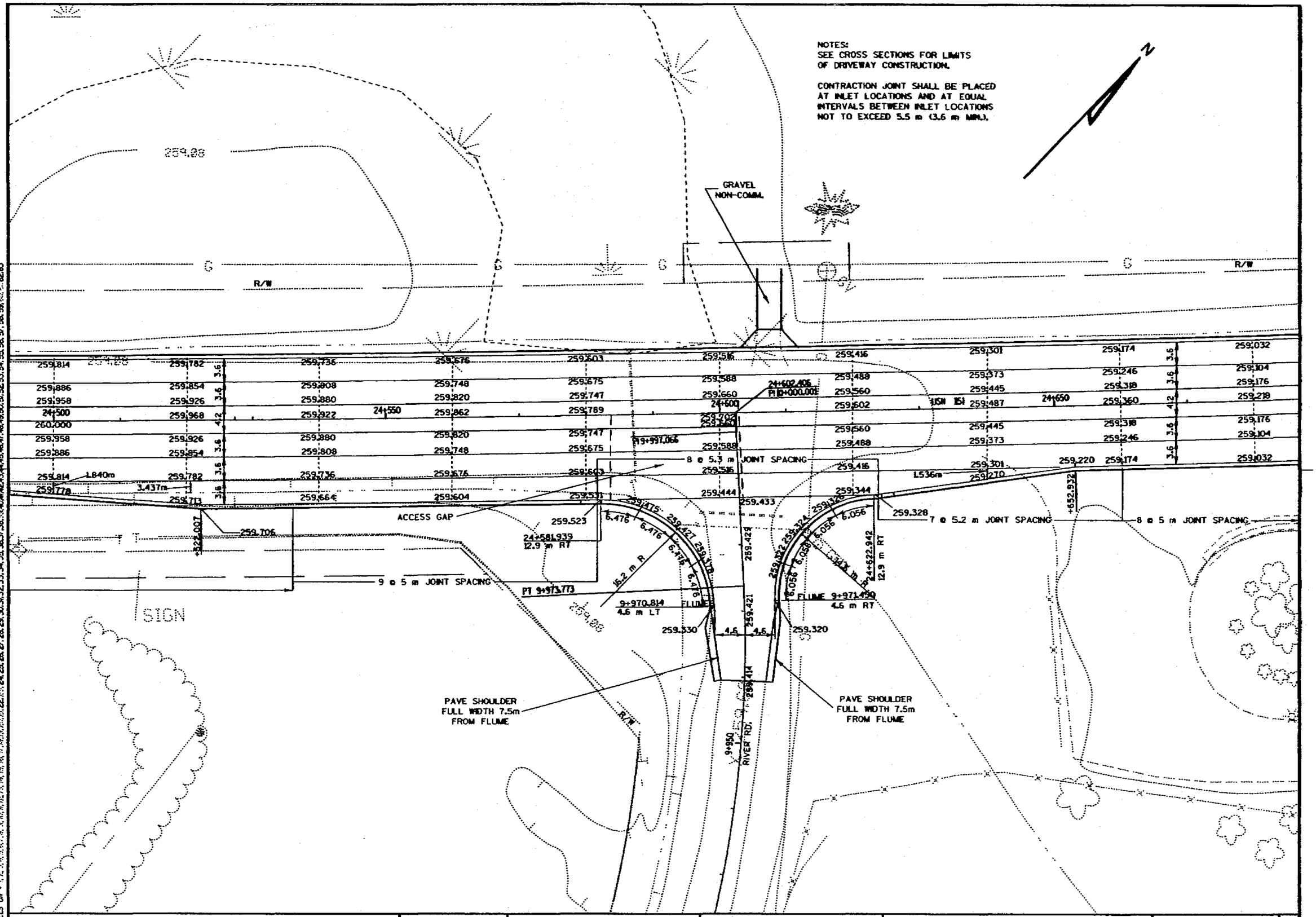
CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).



PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: STH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.16	M

5/20

FILE NAME: D3 1420071SUPD255.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/14/98 PLOT SCALE: 1 PLOT DATE: 99...plotting date...99



PLAN DETAIL & PAVING GRADES | SCALE: 1:250 | HWY: STH 151 | COUNTY: FOND DU LAC | STATE PROJECT NO: 1420-07-70 | SHEET NO: 2.17 | M

6/20

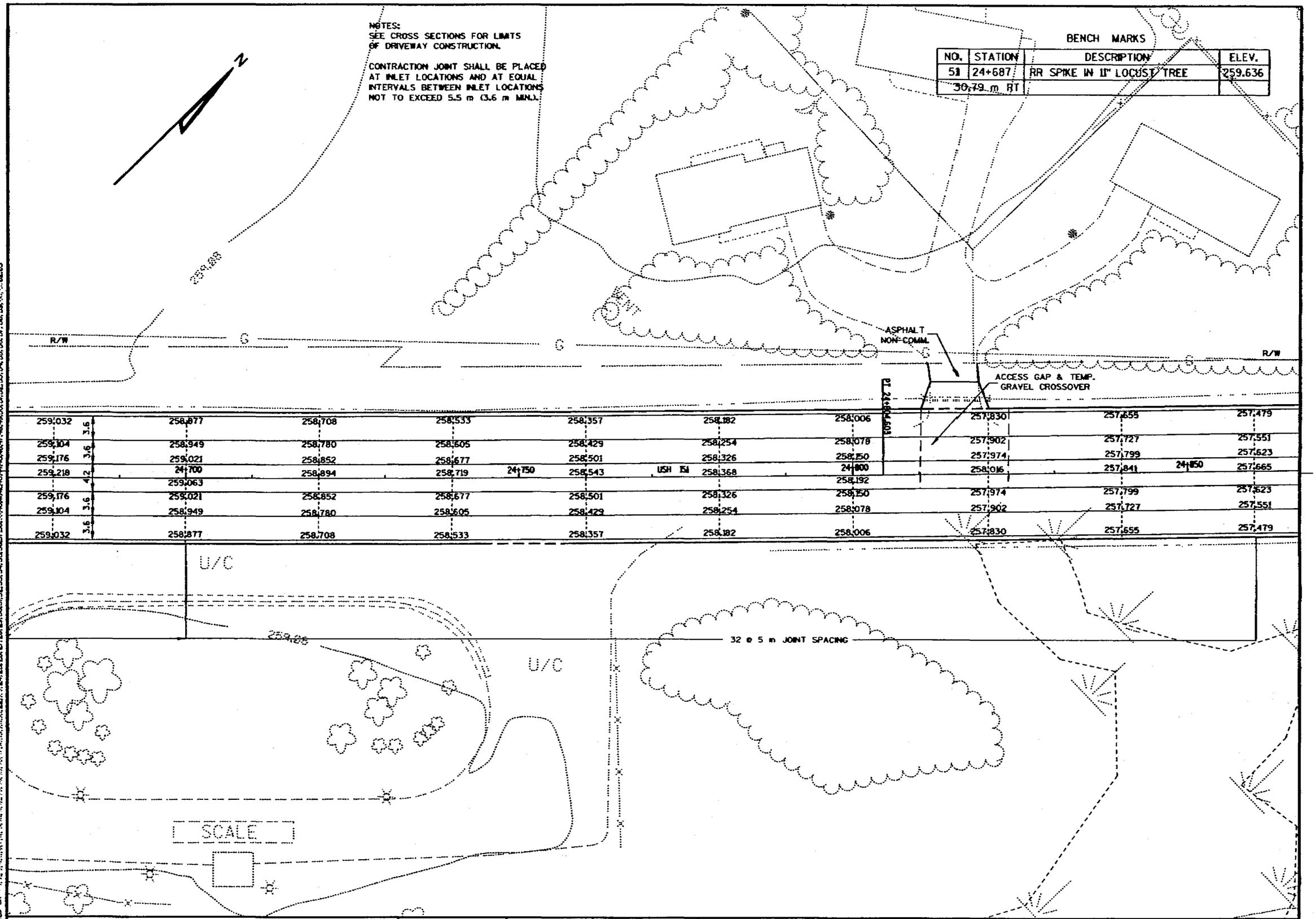
FILE NAME: D3 1420071SUPD2S8.DGN ORIGINATOR: DISTRICT 2 LEVELS ON: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63 PLOT SCALE: 60...plotscale...99 PLOT DATE: 99...plotting date...99 REV. DATE: 12/14/98

NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
51	24+687	RR SPIKE IN 11" LOCUST TREE	259.636
	30.79 m RT		



PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.18	M

7/20

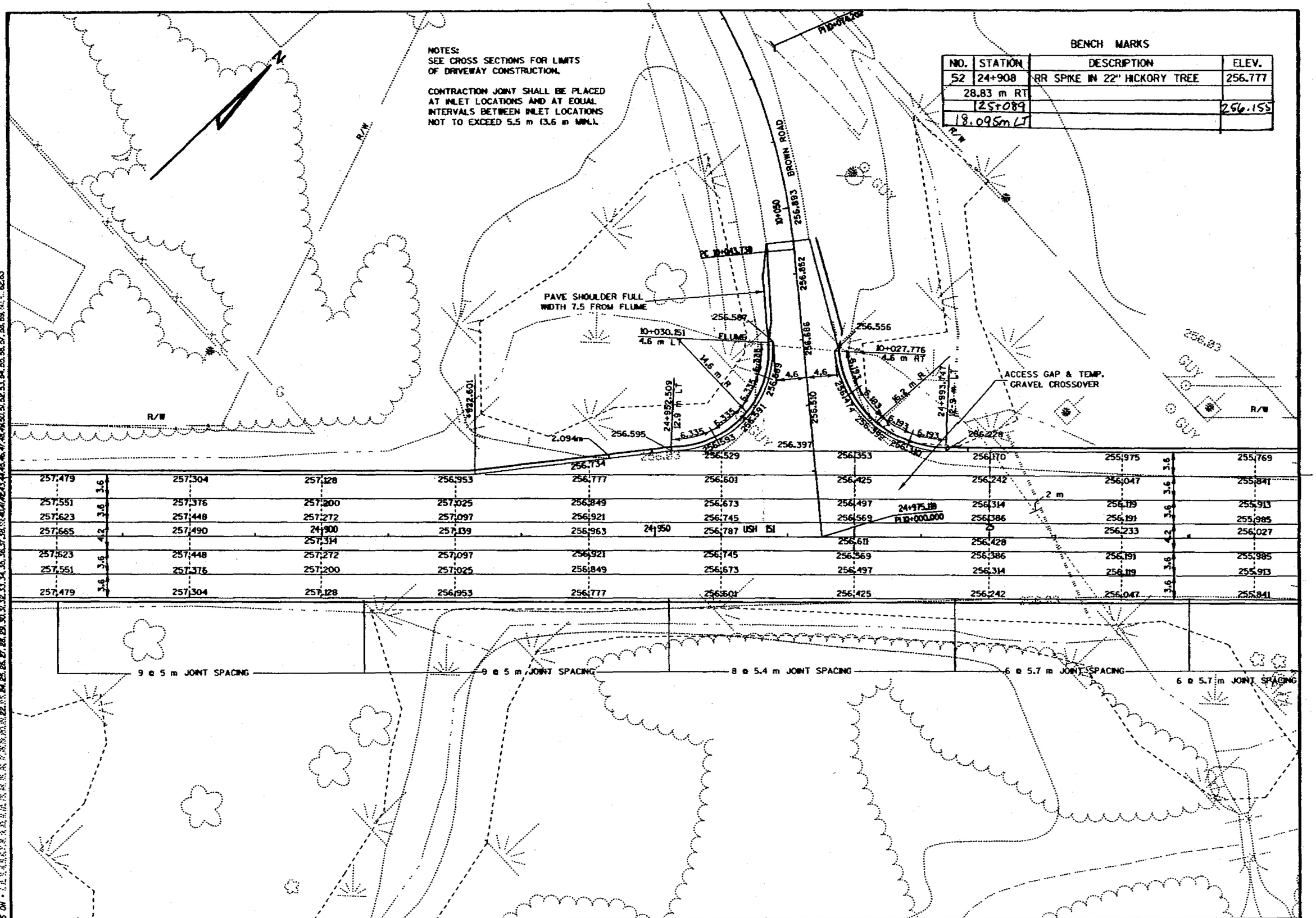
FILE NAME: D2 1420071S\PD287.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/14/98 PLOT SCALE: 00....plotscale....00 PLOT DATE: 00...plottingdate...00

NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
52	24+908	RR SPIKE IN 22" HICKORY TREE	256.777
	28.83 m RT		
	25+089		256.155
	18.095m LT		

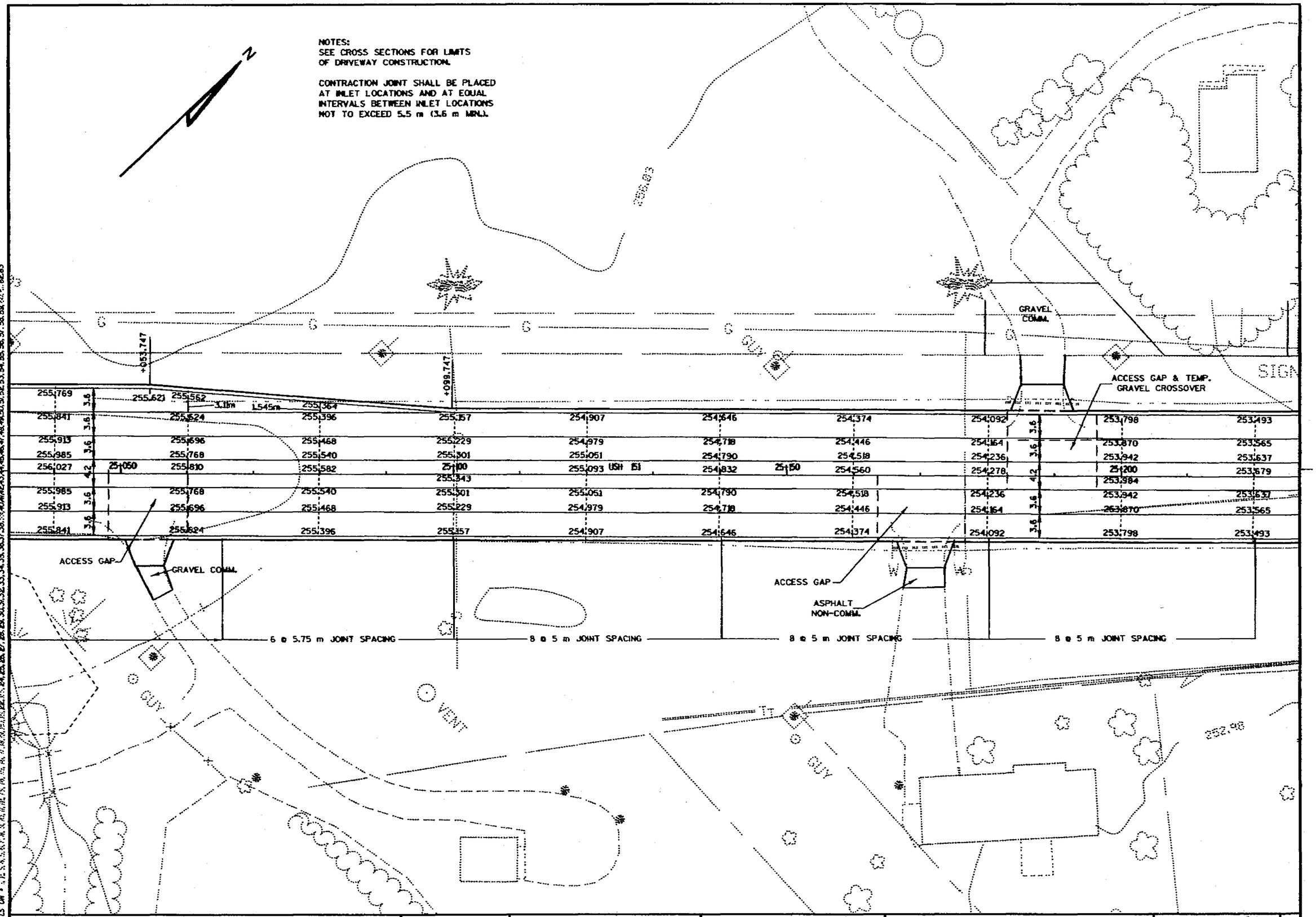


PLAN DETAIL & PAVING GRADES | SCALE: 1:250 | HWY: USH 151 | COUNTY: FOND DU LAC | STATE PROJECT NO: 1420-07-70 | SHEET NO: 2.19 | M

8/20

NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).



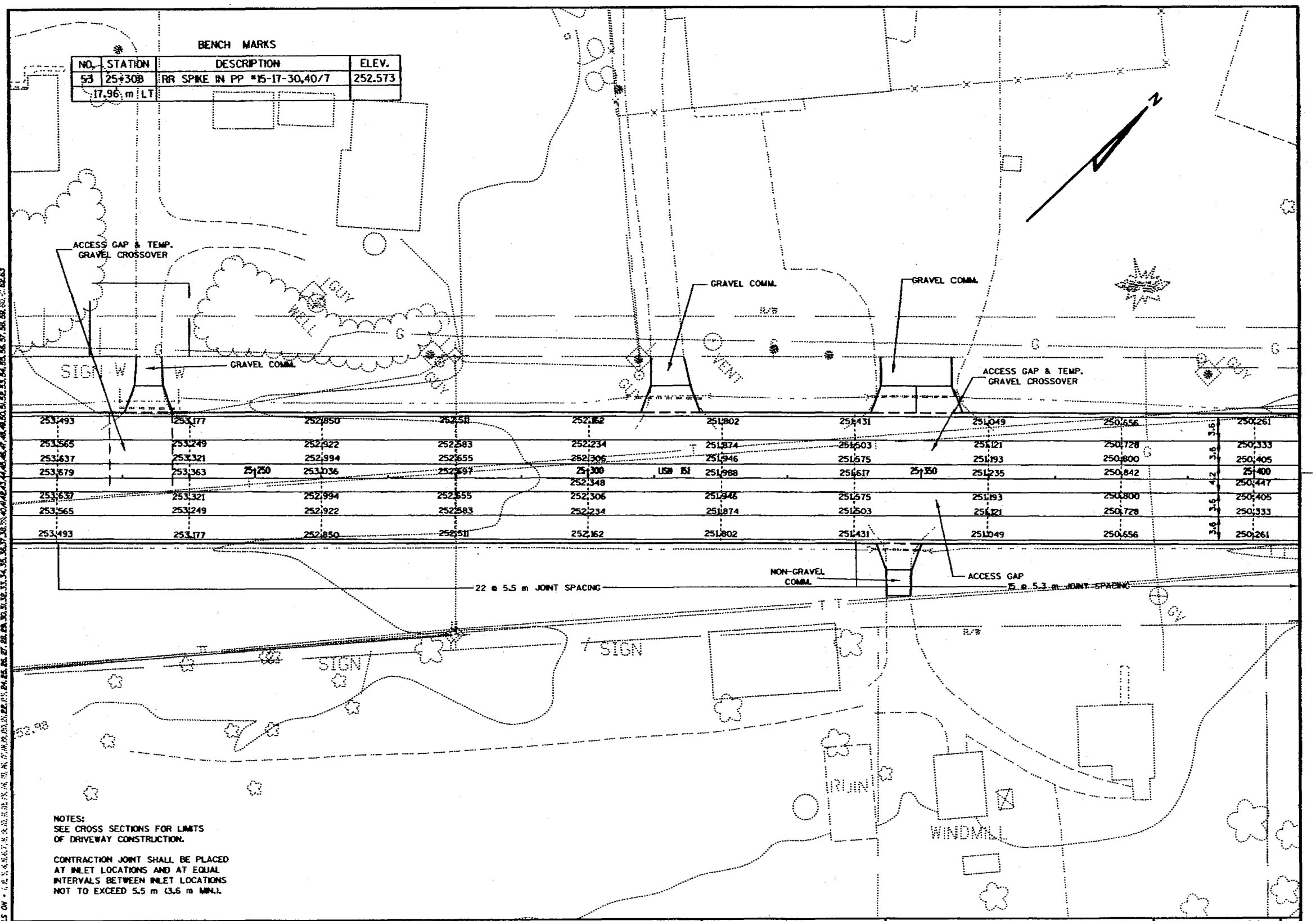
PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.20	M

9/20

FILE NAME: D3 1420071SUP0289.DGN ORIGINATOR: DISTRICT 2 LEVELS ON: PLOT SCALE: 1 PLOT DATE: REV. DATE: 12/14/98

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
53	25+308	RR SPIKE IN PP *15-17-30,40/7	252.573
	17.96 m LT		



NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).

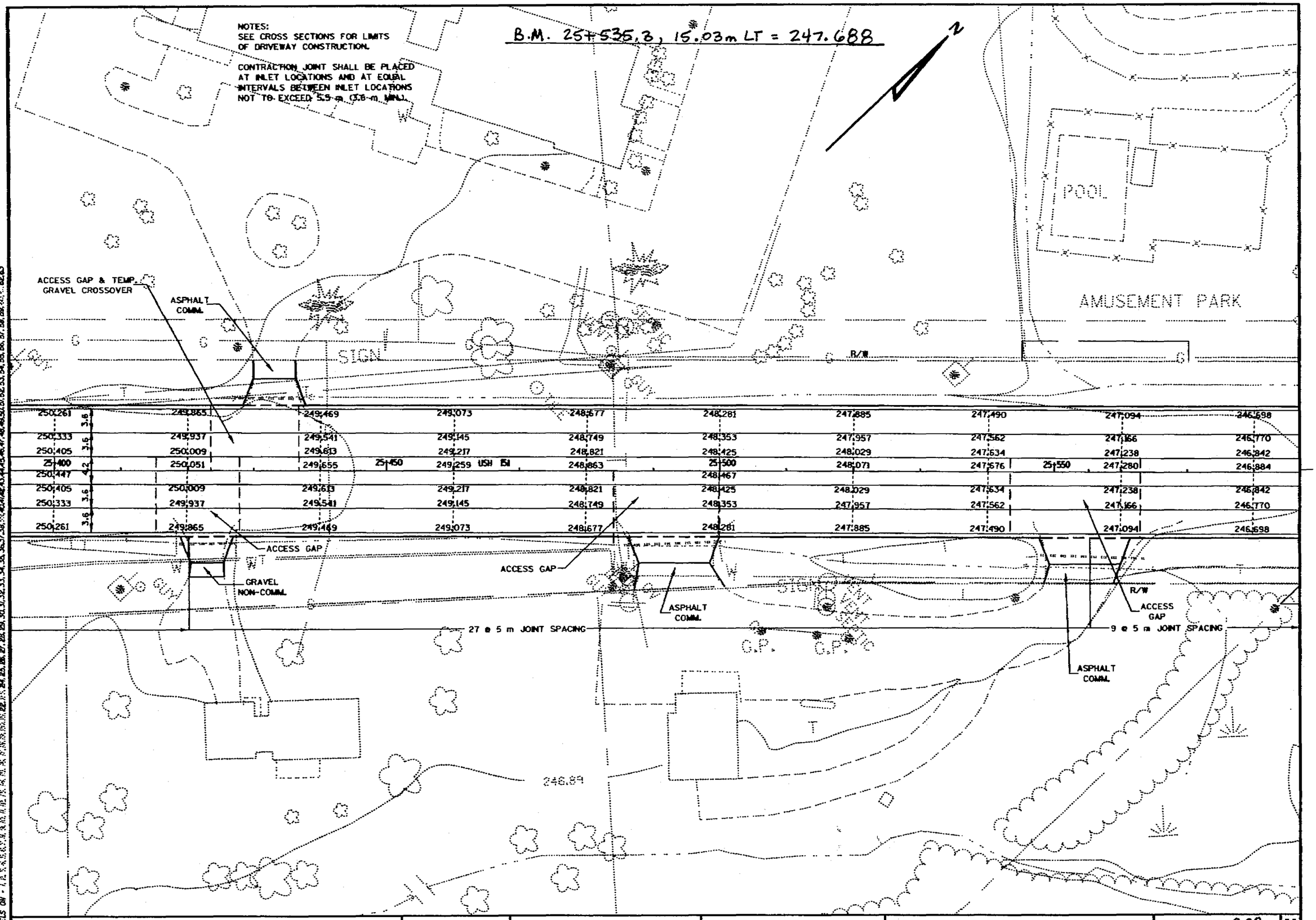
PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.21	M

FILE NAME: D2 1420071SUPD260.DGN ORIGINATOR: DISTRICT 2 LEVELS ON • PLOT SCALE : 60.....plotscale.....60 PLOT DATE: 60.....plotting date.....60 REV. DATE: 12/16/98
10/20

NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).

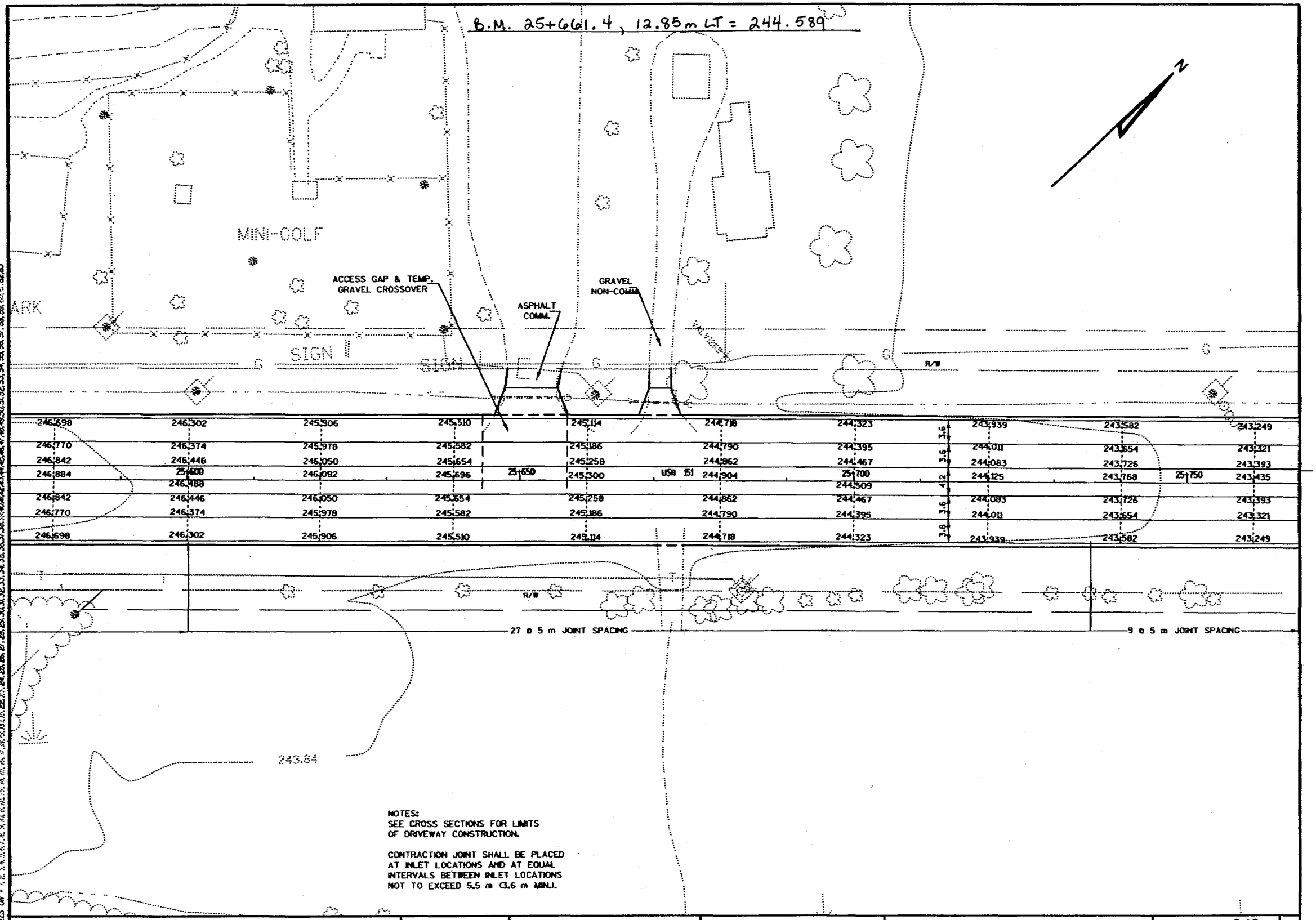
B.M. 25+535.3, 15.03m LT = 247.688



PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.22	M

11/20

FILE NAME: D8 1420071SIPD2S2.DGN ORIGINATOR: DISTRICT 2 PLOT SCALE: 1 PLOT DATE: REV. DATE: 10/14/98



NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

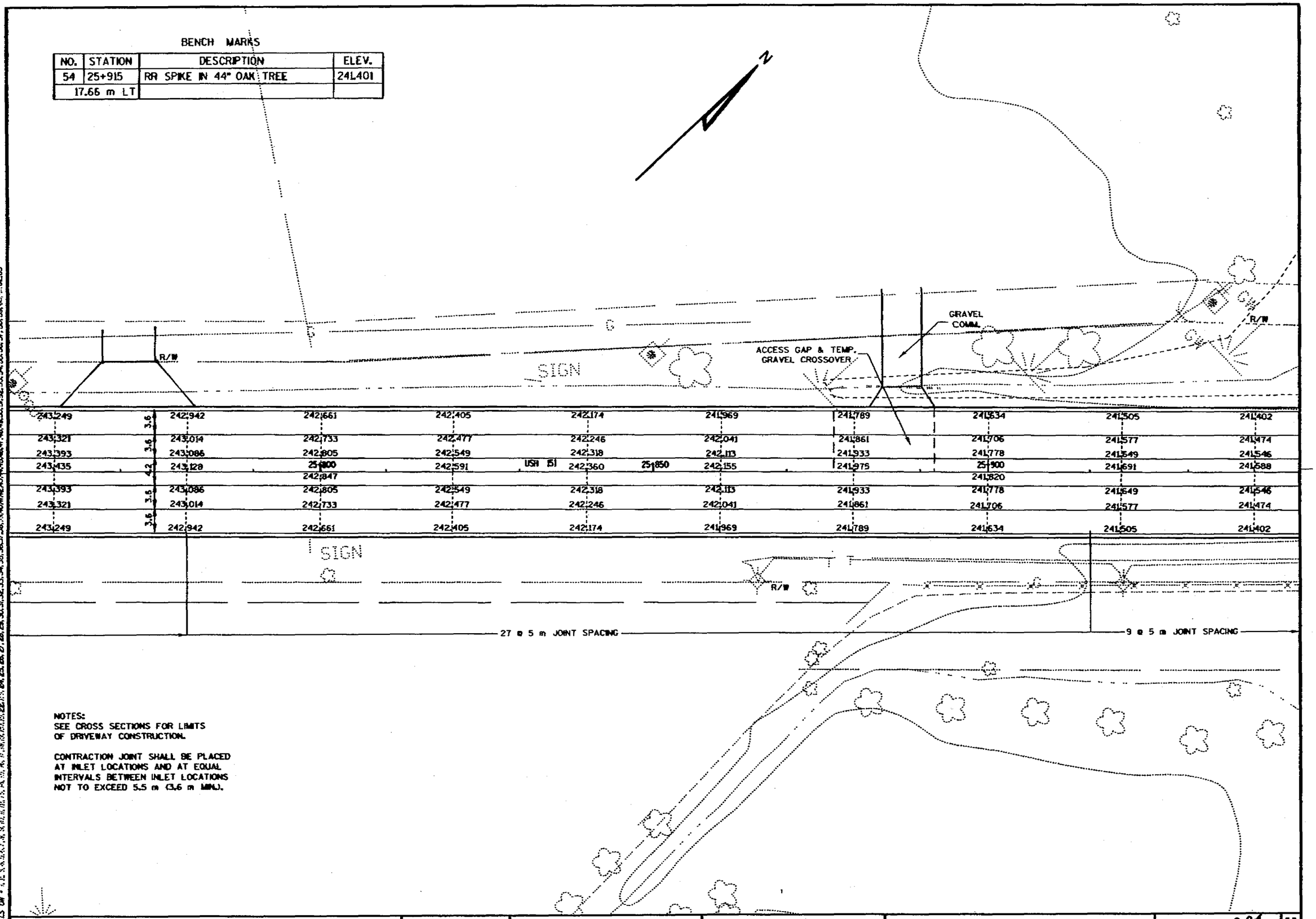
CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).

PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.23	M

12/20

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
54	25+915	RR SPIKE IN 44" OAK TREE	241.401
	17.66 m LT		



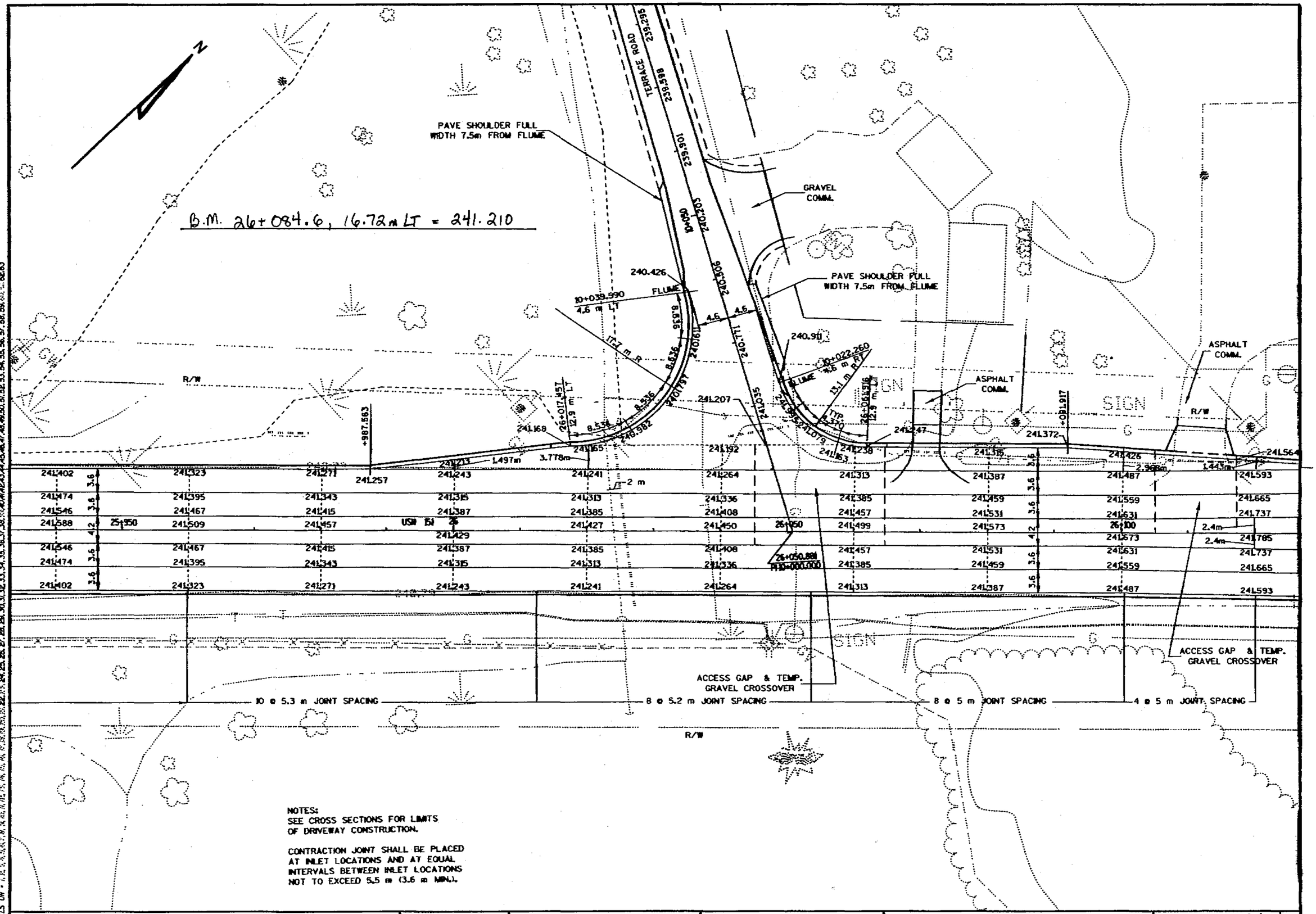
NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).

13/20

PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.24	M

FILE NAME: D2 1420071SUPD2S2.DGN ORIGINATOR: DISTRICT 2 LEVELS ON • REV. DATE: 12/14/98 PLOT SCALE : 00.....plotscale.....00 PLOT DATE: 00...plottingdate...00



NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).

PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.25	M

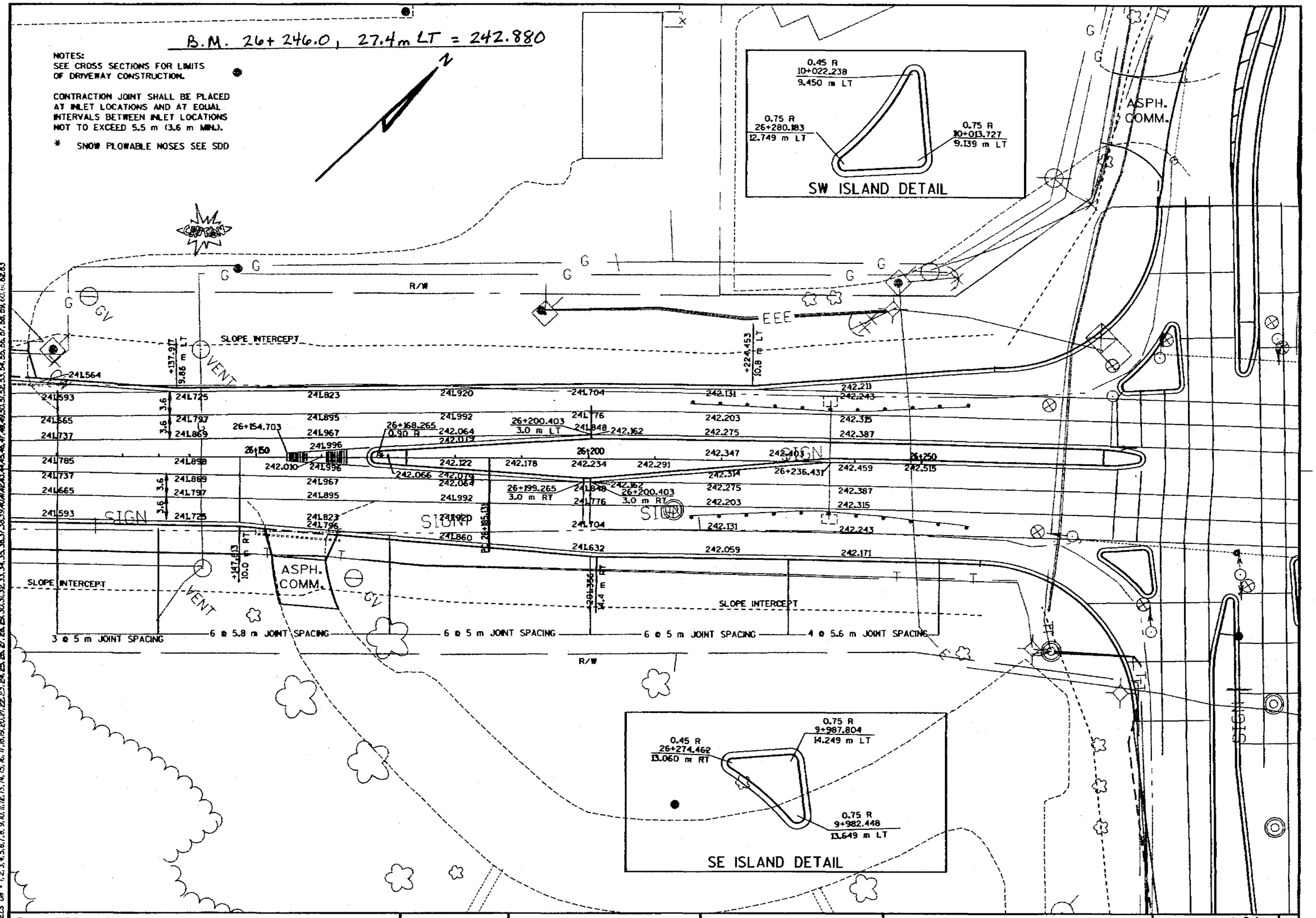
14/20

B.M. 26+246.0, 27.4m LT = 242.880

NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

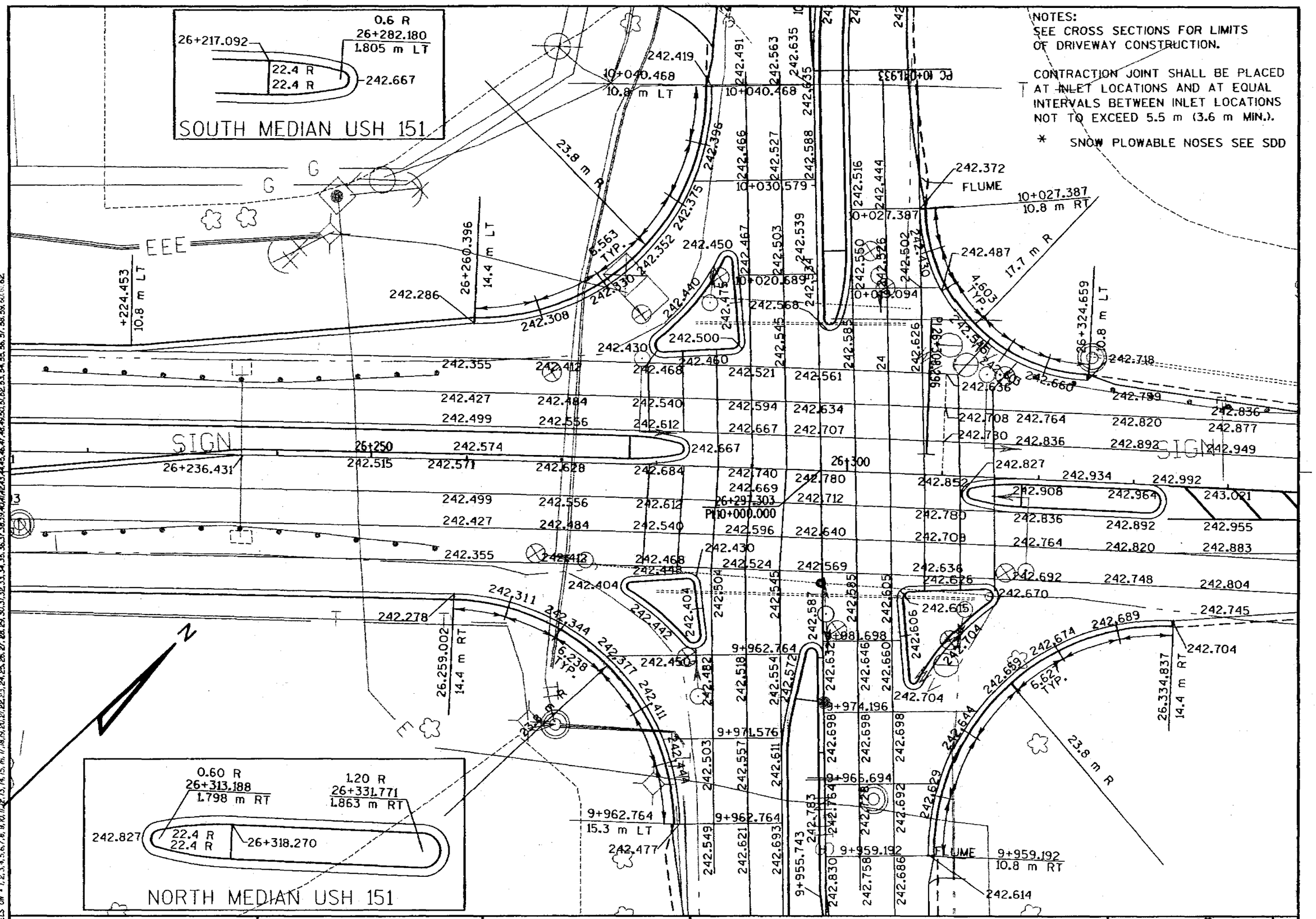
CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).

* SNOW PLOWABLE NOSES SEE SDD



PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.26	M

FILE NAME: D2 1420070SIPDE68.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/14/98 PLOT SCALE: 1 PLOT DATE: 99...plottingdate...99
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



STATE PROJECT NO: 1420-07-70	HWY: USH 151	COUNTY: FOND DU LAC	PLAN DETAIL PAVING GRADES	SHEET NO: 2.27	M

FILE NAME: D2 1420070SUPD2668A.DGN ORIGINATOR: REV. DATE: 10/21/98 PLOT SCALE: 1 PLOT DATE: 98...plotting date...98

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.

P1-16-98

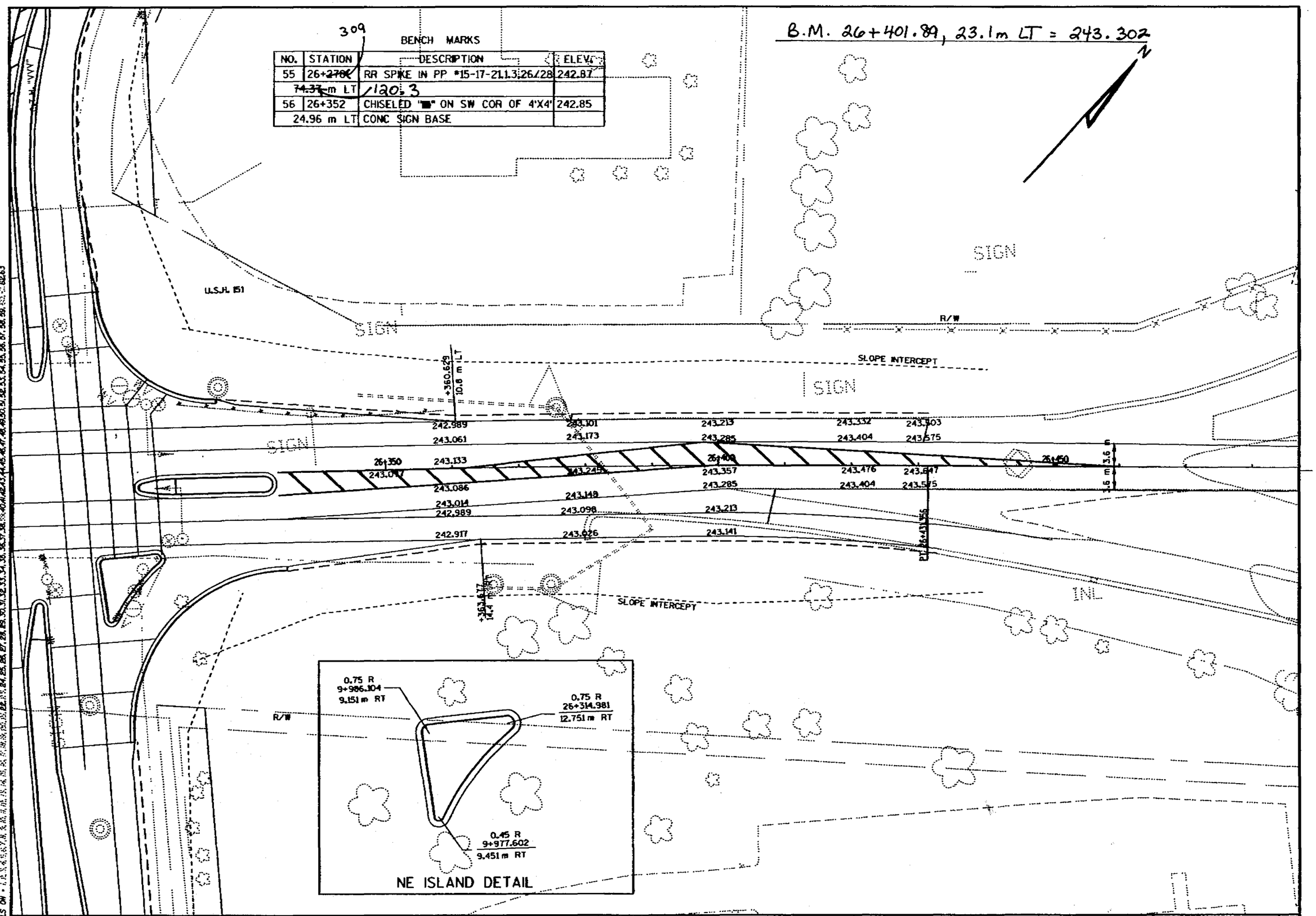
* BM OFF PLAN

B.M. 26+401.89, 23.1m LT = 243.302

309

BENCH MARKS

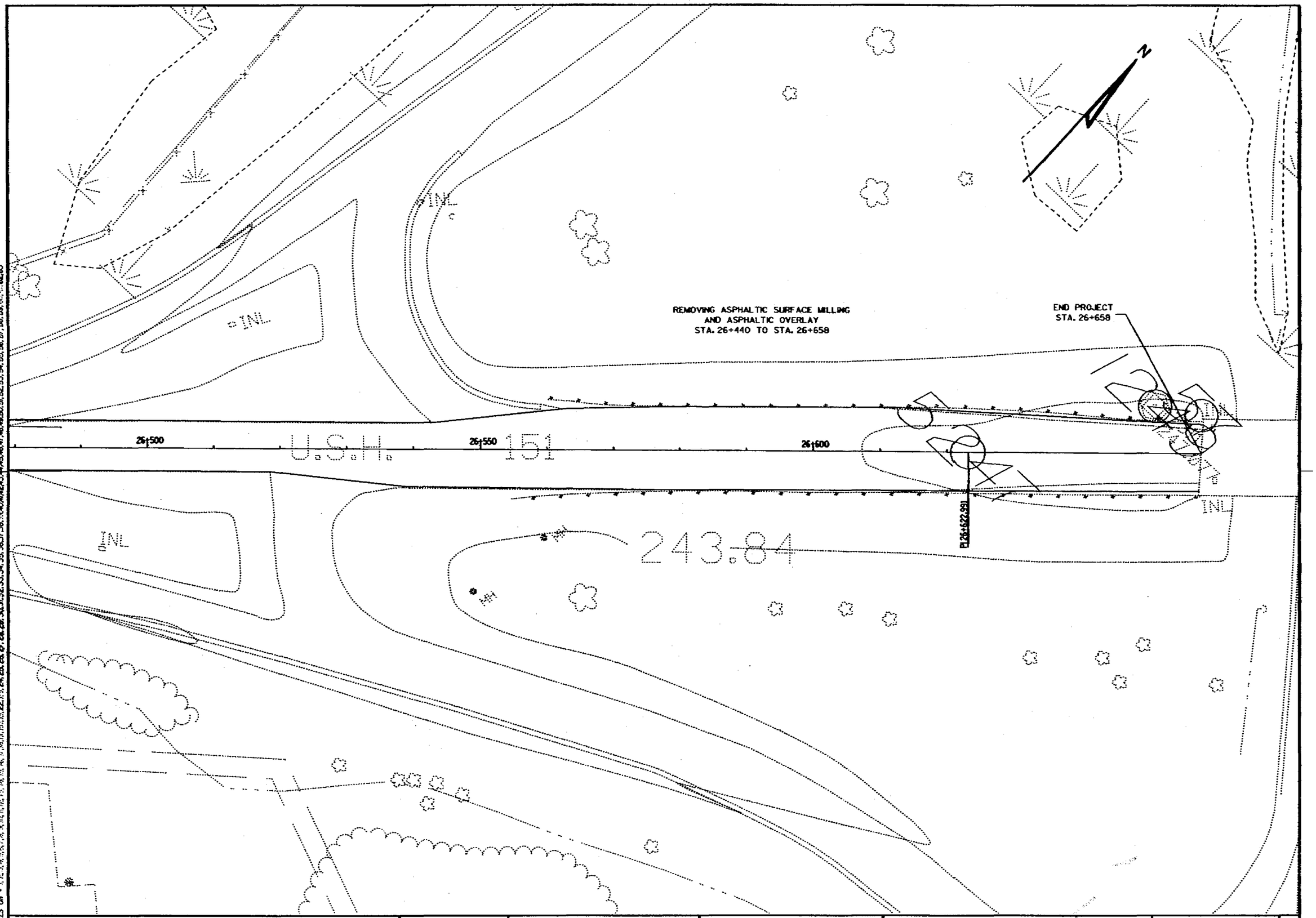
NO.	STATION	DESCRIPTION	ELEV.
55	26+~~270~~	RR SPIKE IN PP #15-17-21,13,26,28	242.87
	~~74.37~~ m LT	120.3	
56	26+352	CHISELED "■" ON SW COR OF 4'X4'	242.85
	24.96 m LT	CONC SIGN BASE	



PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.28	M

17/20

FILE NAME: D2 1420071SUPD266.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/14/98 PLOT SCALE: 1 PLOT DATE: LEVELS ON

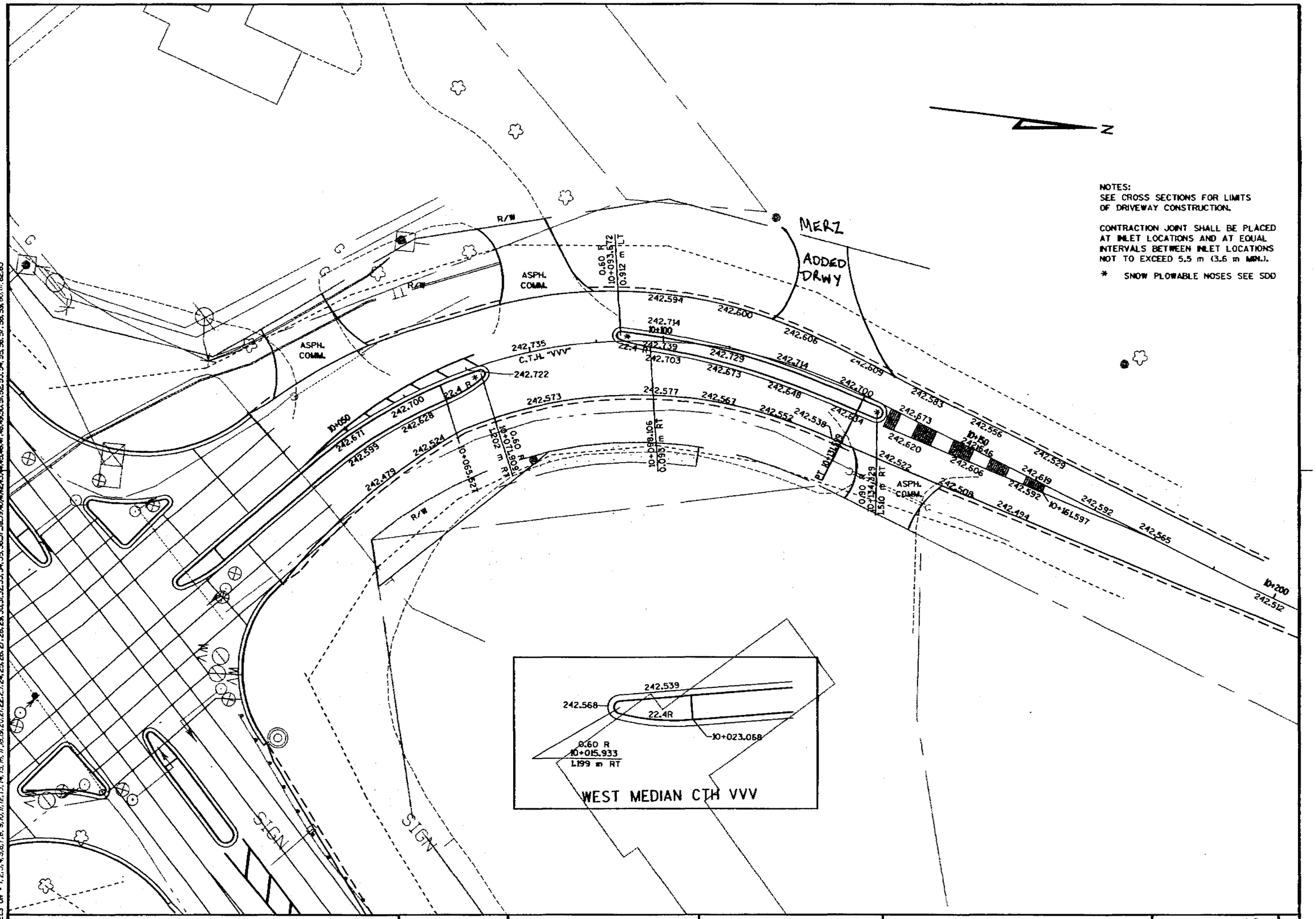


PLAN DETAIL & PAVING GRADES	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.29	M

FILE NAME: D:\ 1420071SUPD666A.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/23/98 PLOT SCALE: 1 PLOT DATE: 98

LEVELS ON

18/20



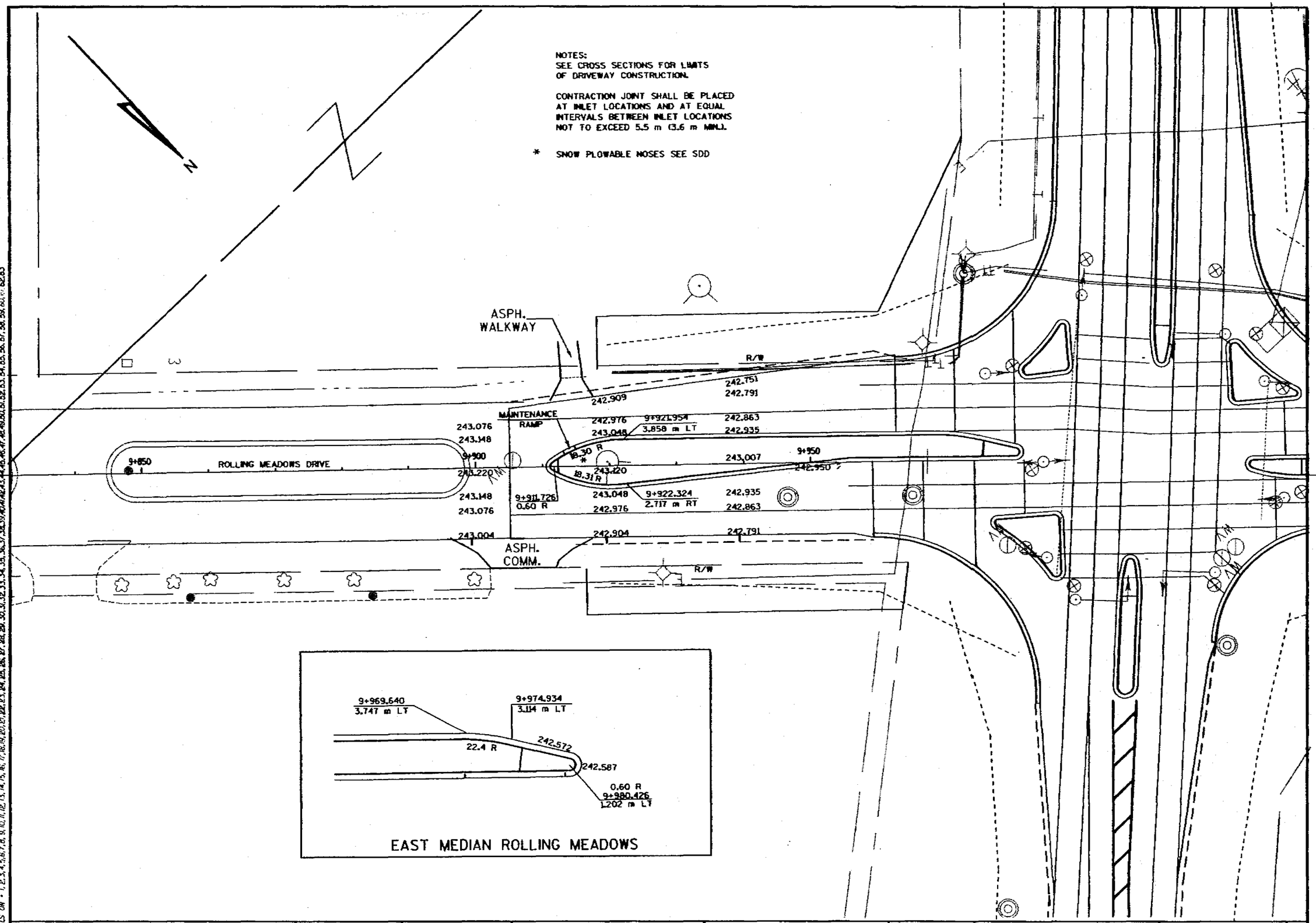
PLAN DETAIL & PAVING GRADES CTH VVV	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.30	M

FILE NAME: D2 1420071SIPD287.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/14/98 PLOT SCALE: 1 PLOT DATE: 98...plotting date...98
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

NOTES:
SEE CROSS SECTIONS FOR LIMITS OF DRIVEWAY CONSTRUCTION.

CONTRACTION JOINT SHALL BE PLACED AT INLET LOCATIONS AND AT EQUAL INTERVALS BETWEEN INLET LOCATIONS NOT TO EXCEED 5.5 m (3.6 m MIN.).

* SNOW PLOWABLE NOSES SEE SDD



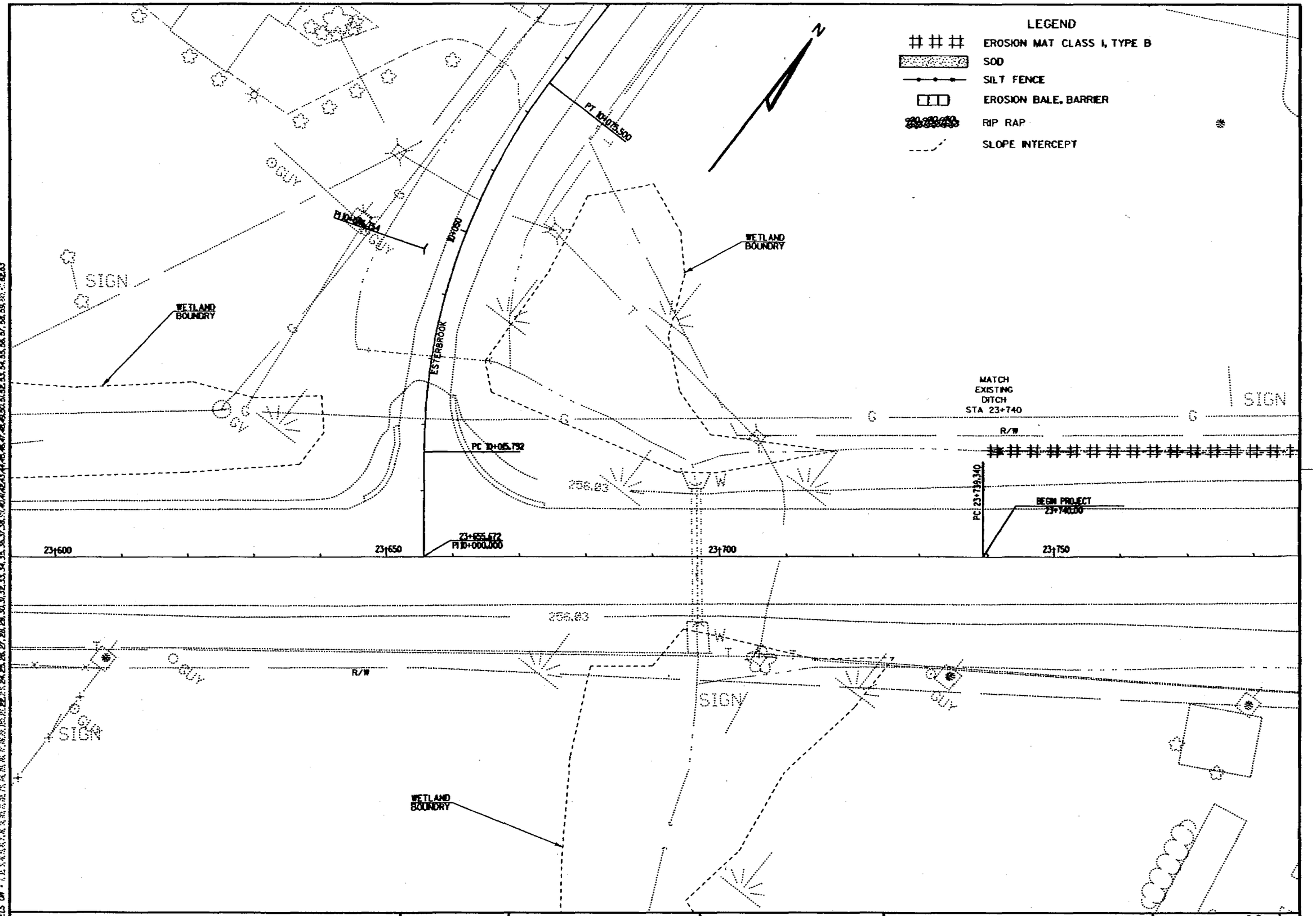
PLAN DETAIL & PAVING GRADES ROLLING MEADOWS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.31	M

FILE NAME: D2 1420071SIPD2SS.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/14/98 PLOT SCALE: 1 PLOT DATE: 98...DIGY+INGDDY9...98

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

WisDOT: MSHT40

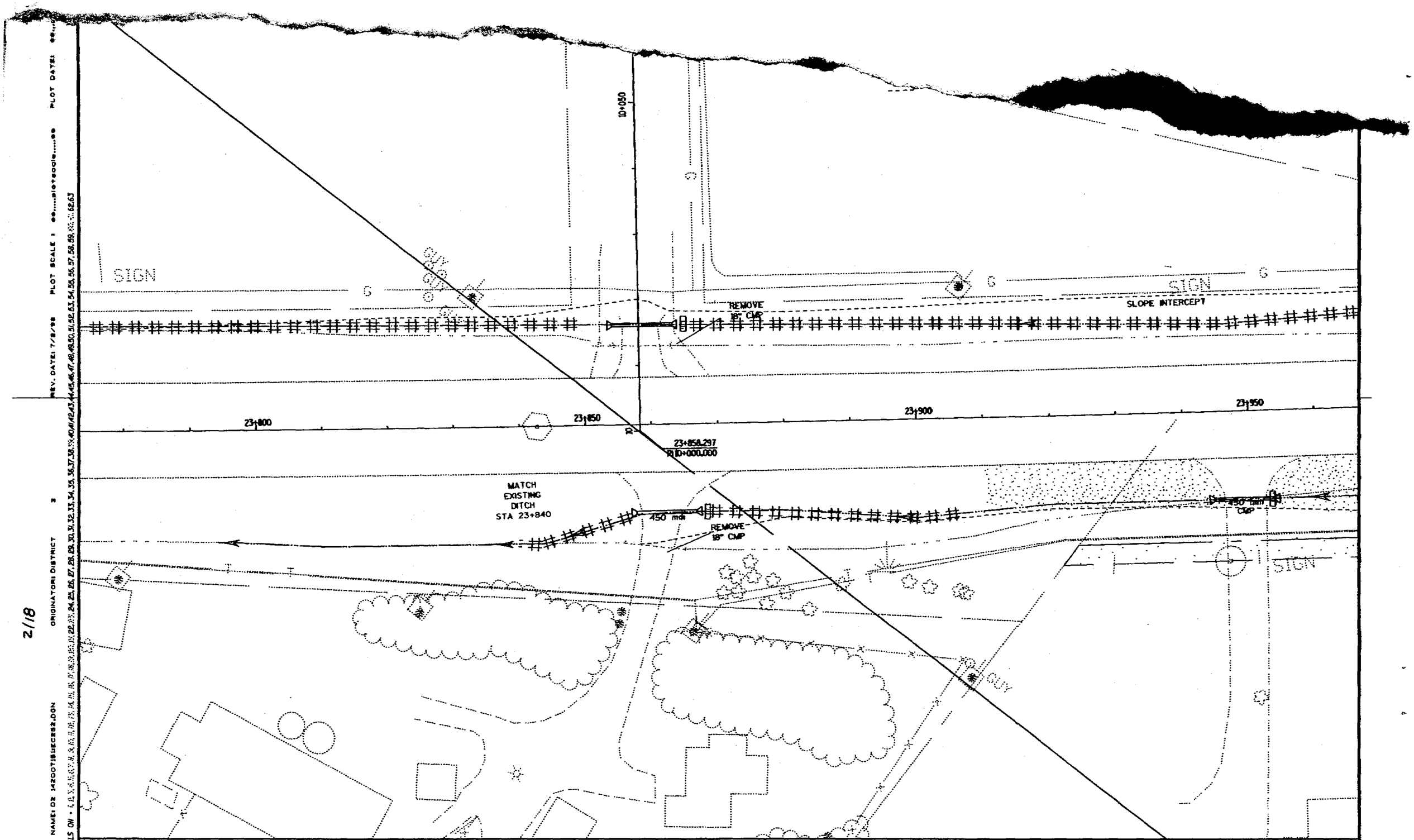
R 1-11-99



EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.32	M

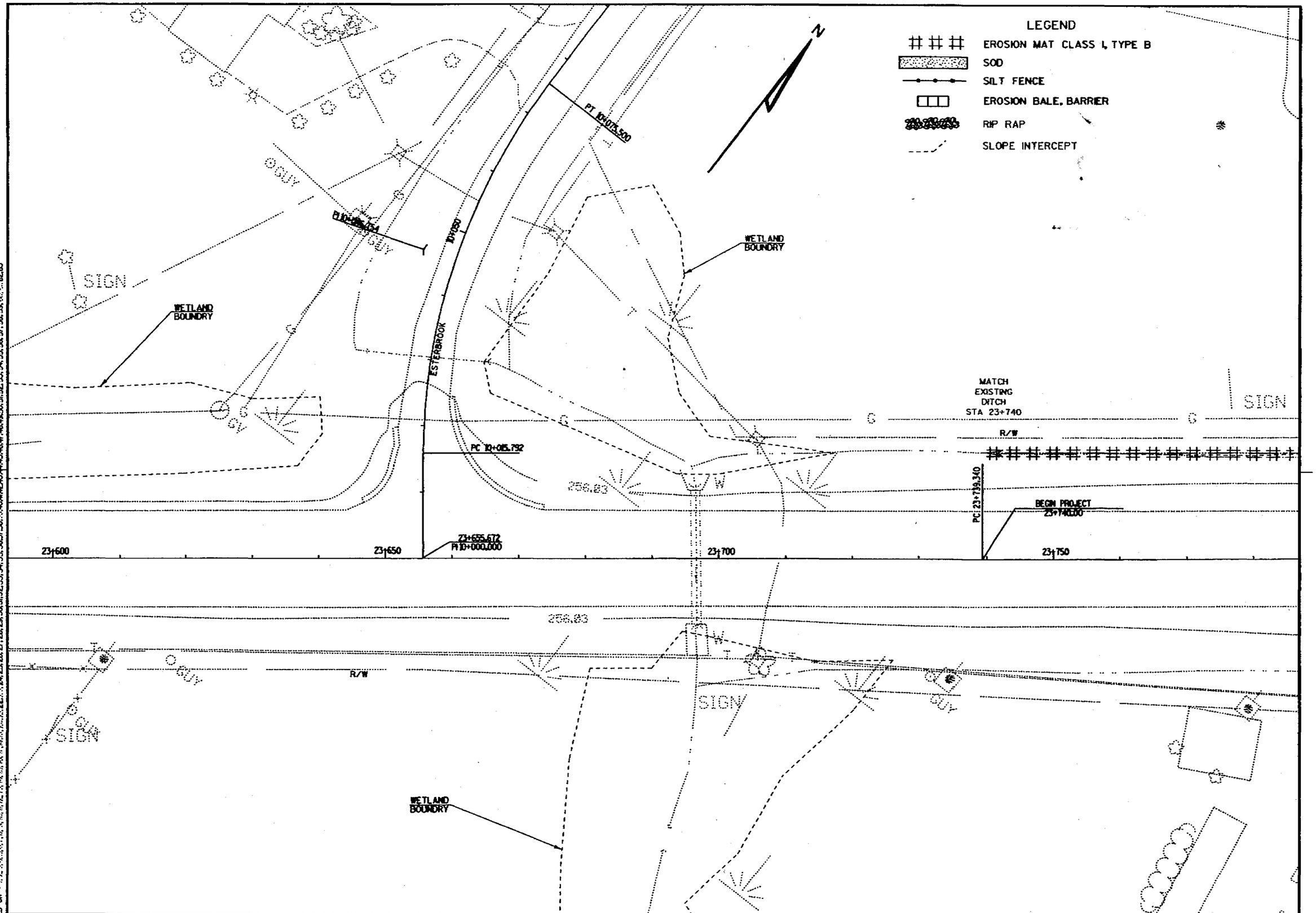
FILE NAME: D2 1420071B1ECB1.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12-14-98 PLOT SCALE: 1 PLOT DATE: 98...plotting date...98

1/18



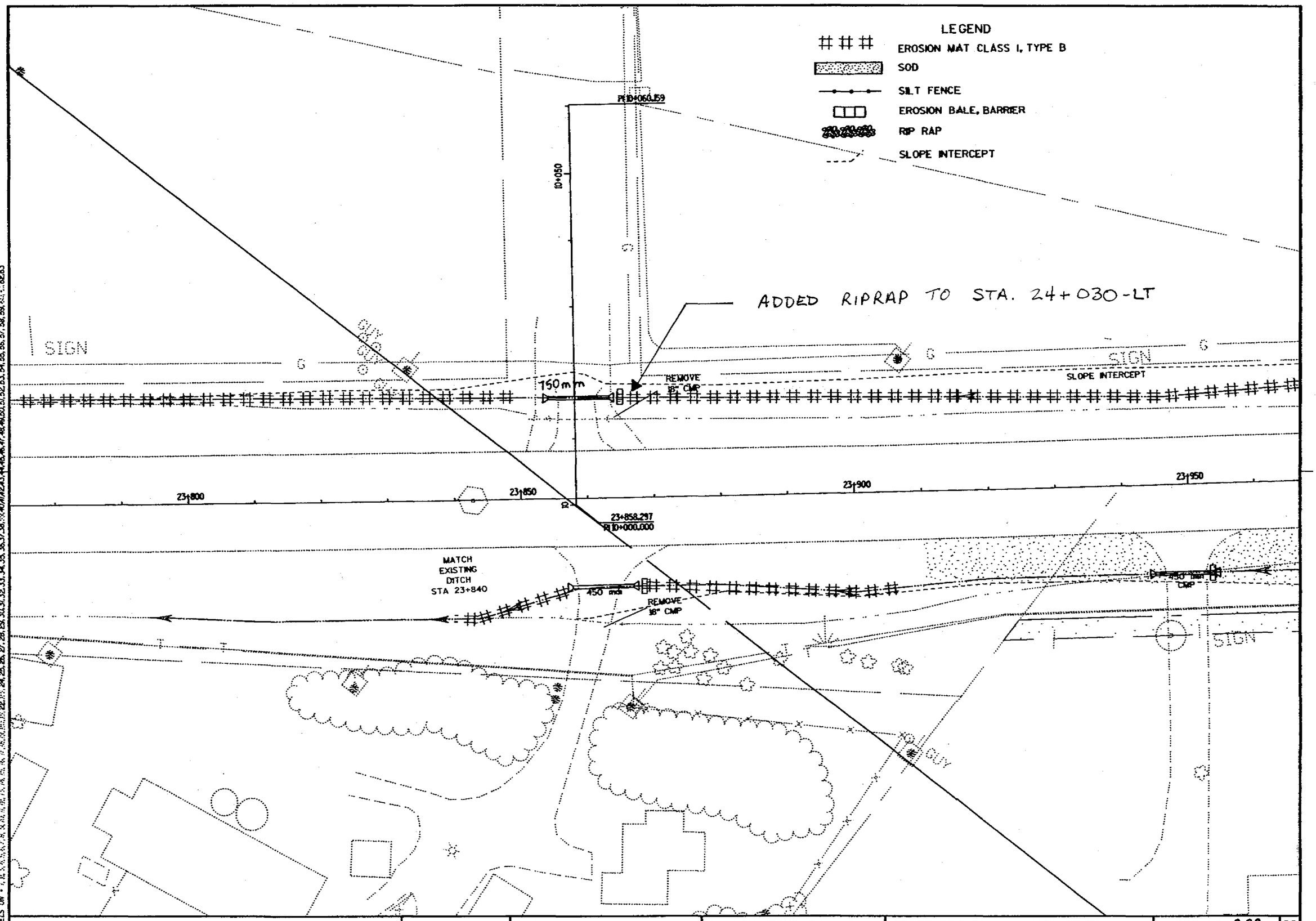
EROSION CONTROL & REMOVALS | SCALE: 1:250 | HWY: USH 151 | COUNTY: FOND DU LAC | STATE PROJECT NO: 1420-07-70 | SHEET NO: 233 | M

2/18

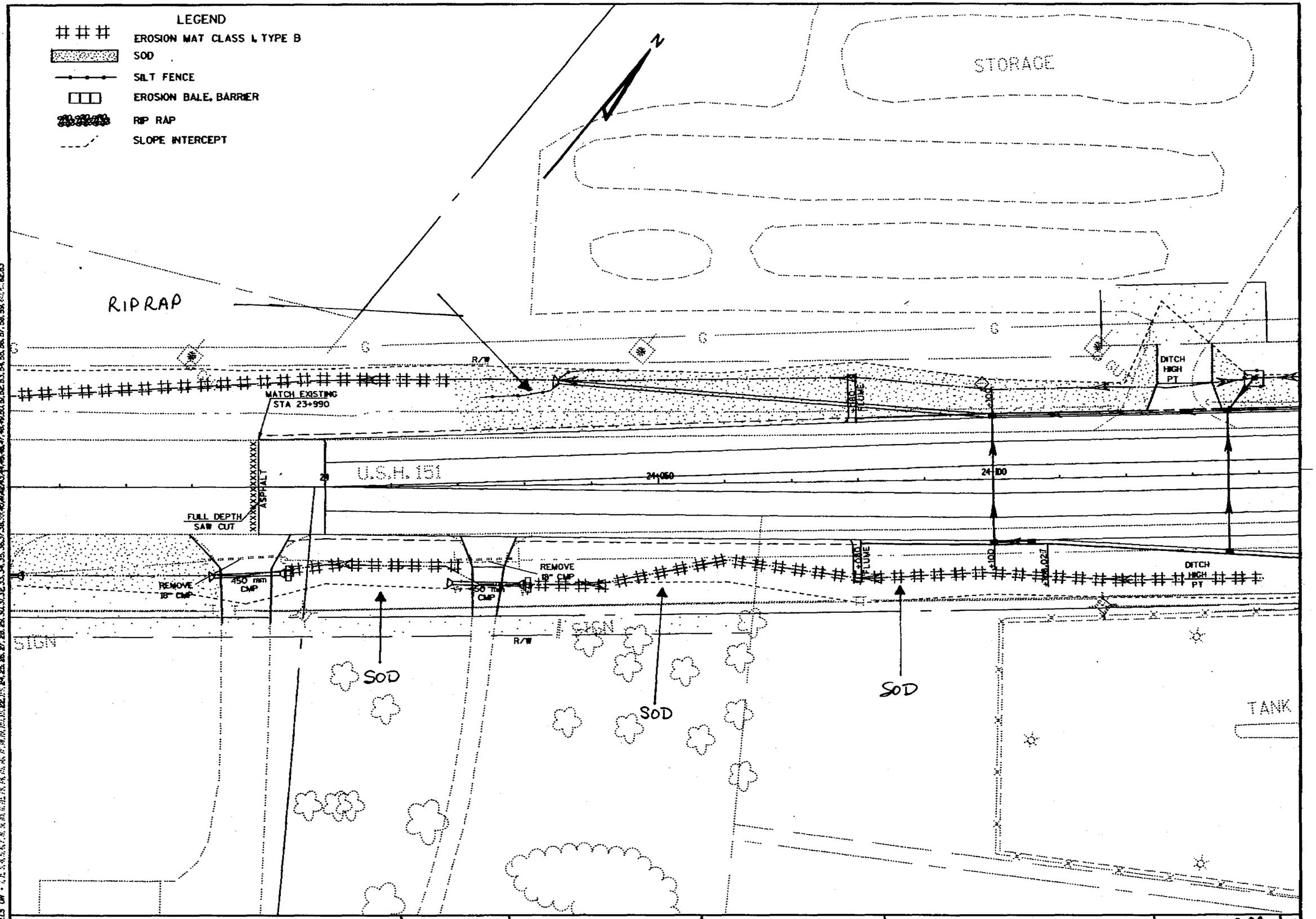


EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.32	M

1/18



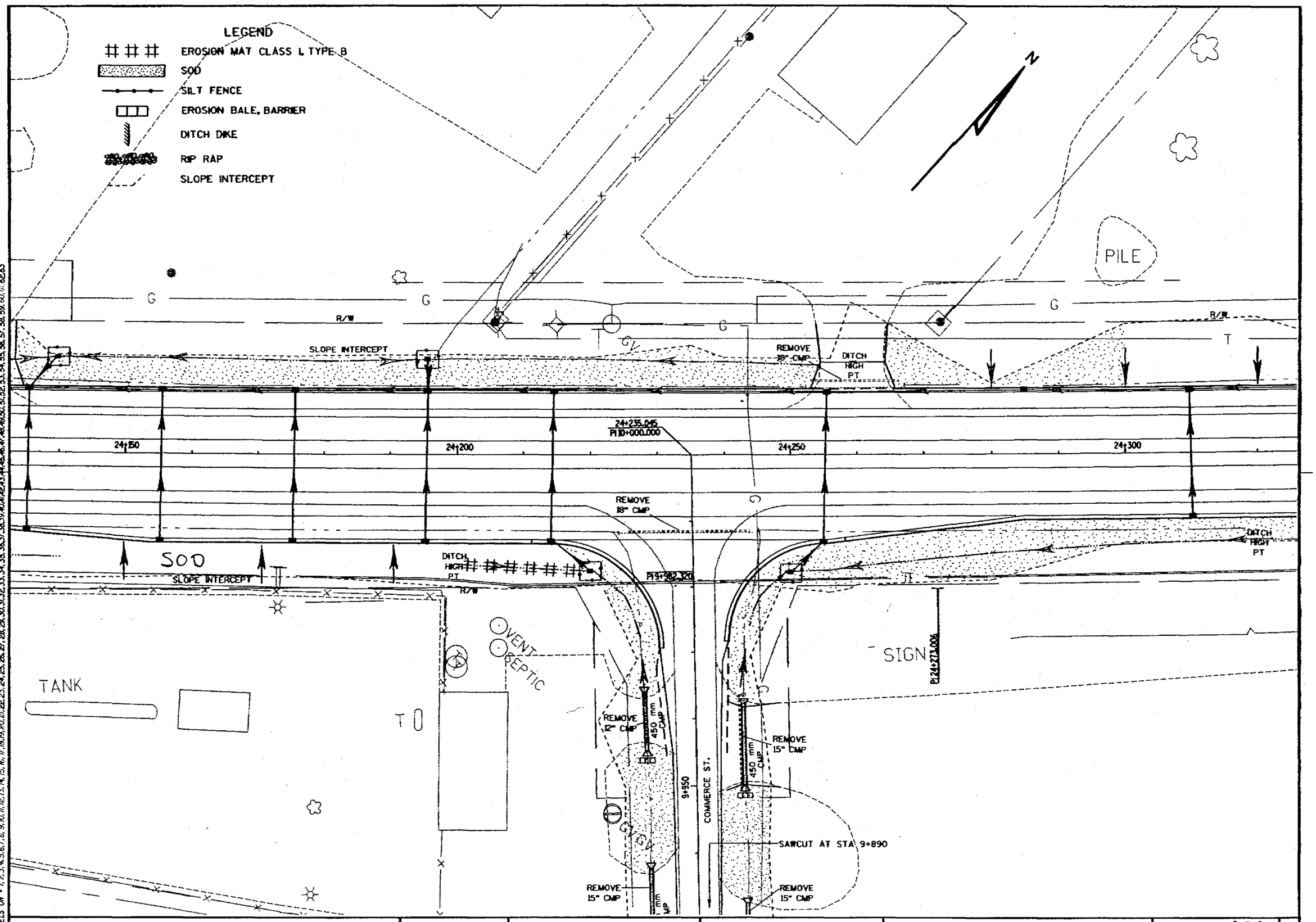
EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.33	M



EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.34	M

3/18

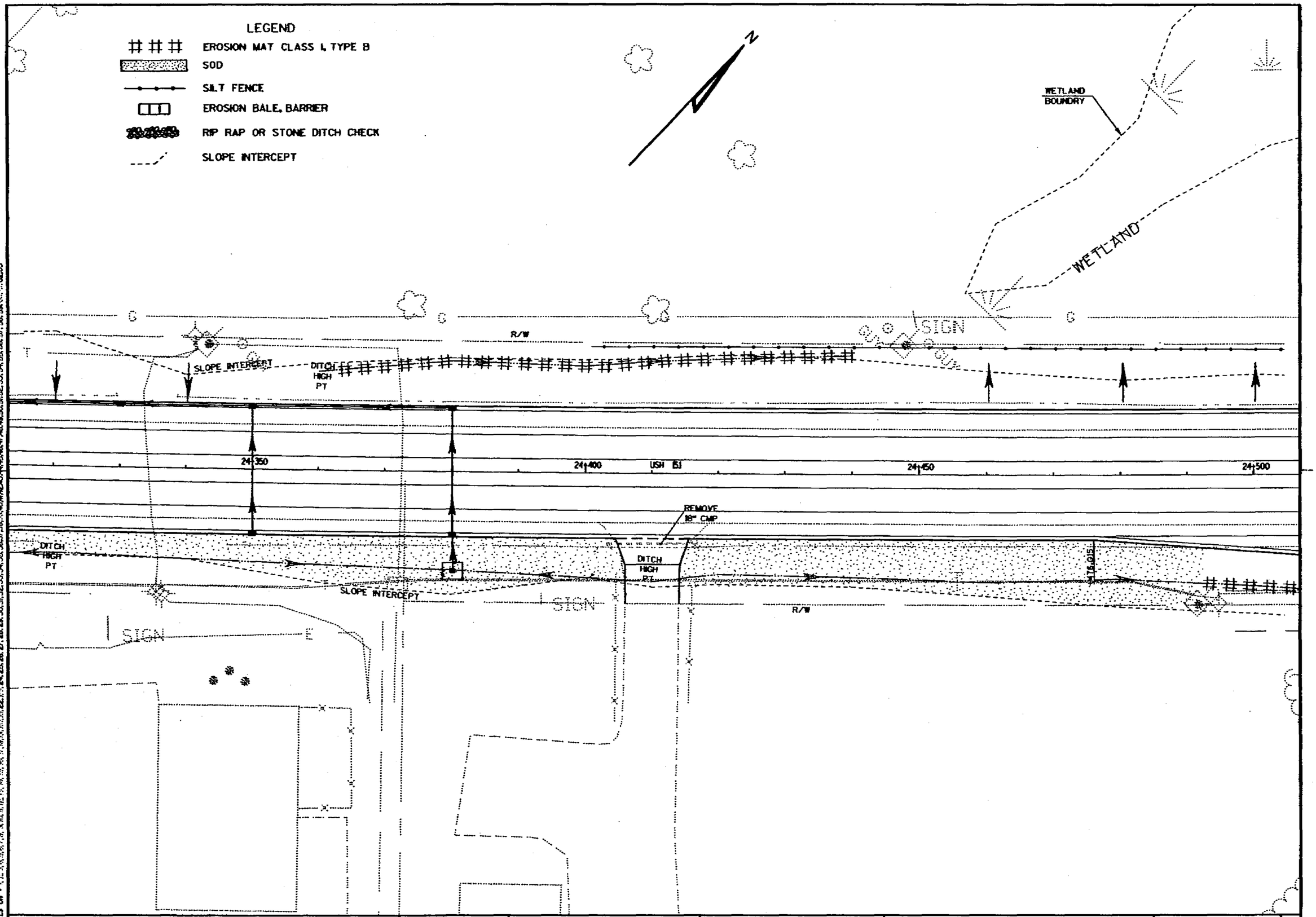
FILE NAME: D8 1420071SECE8%.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 7/8/98 PLOT SCALE: 1 PLOT DATE: 98



EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.35	M

P 1-14-99

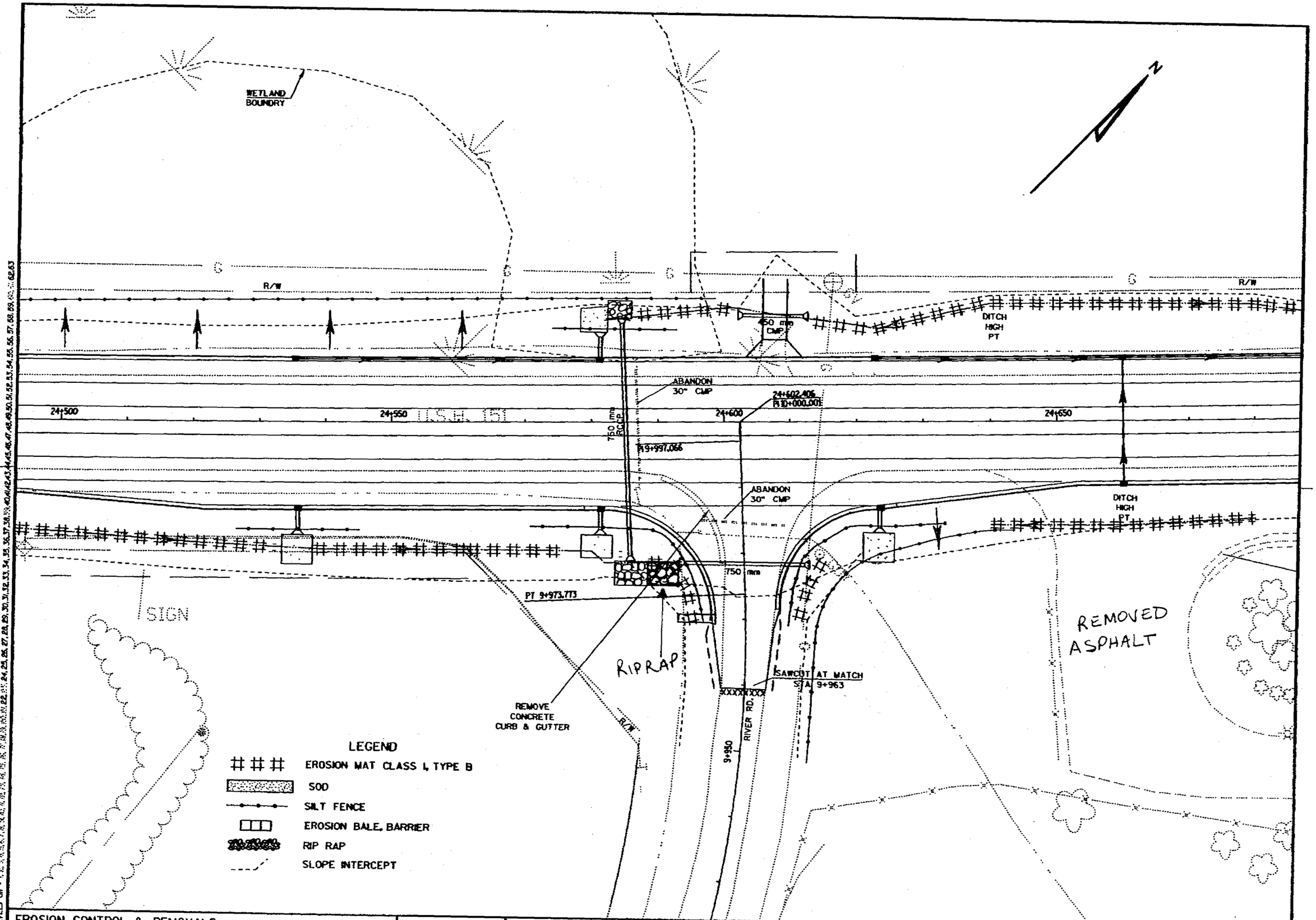
FILE NAME: D2 1420071SHEC234.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12-14-98 PLOT SCALE: 1 PLOT DATE:



EROSION CONTROL & REMOVALS | SCALE: 1:250 | HWY: STH 151 | COUNTY: FOND DU LAC | STATE PROJECT NO: 1420-07-70 | SHEET NO: 2.36 | M

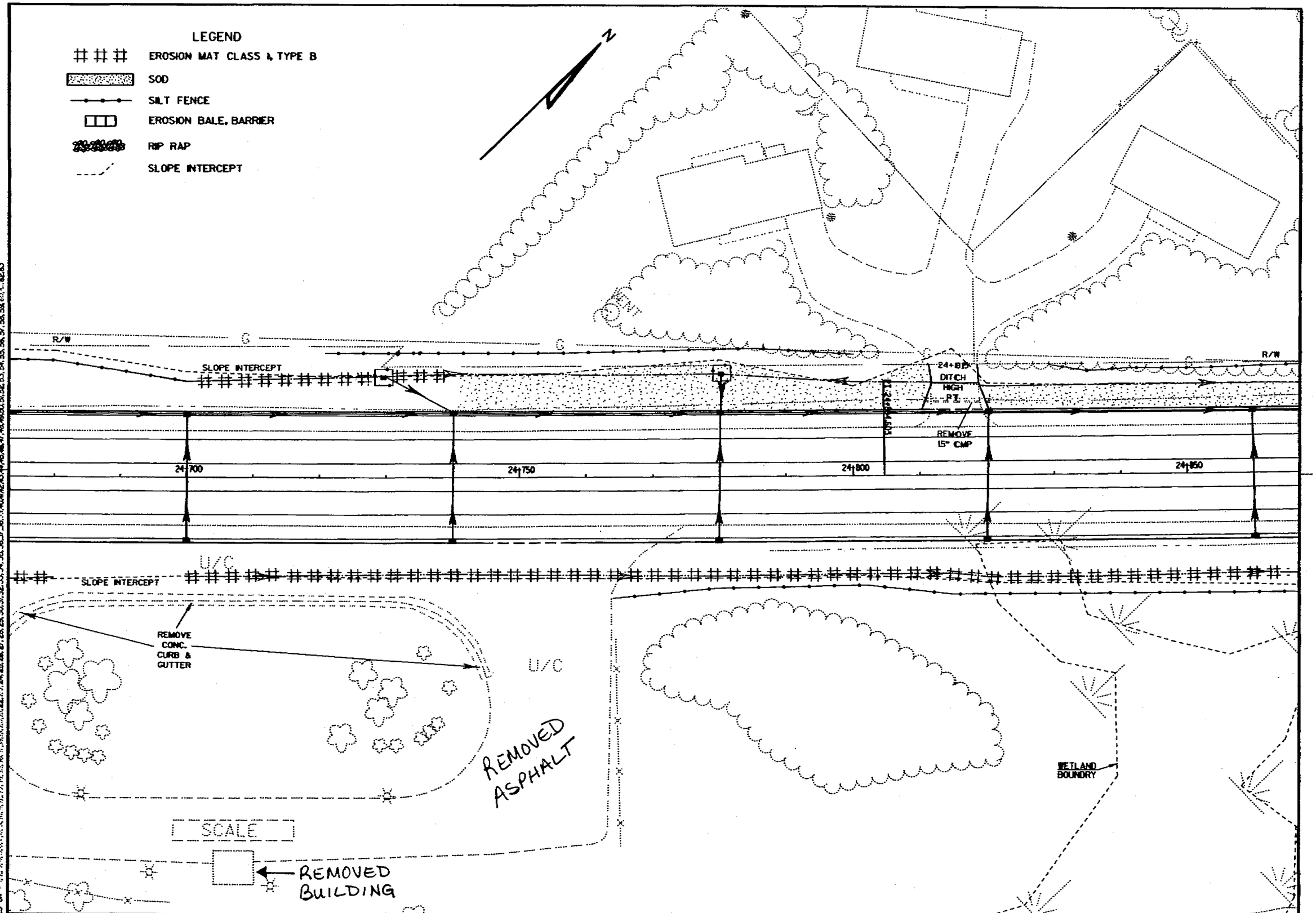
5/18

FILE NAME: D3 1420073SHECE85.DGN ORIGINATOR: DISTRICT 2 PLOT SCALE: 1 PLOT DATE: REV. DATE: 12-14-98



EROSION CONTROL & REMOVALS | SCALE: 1:250 | HWY: STH 151 | COUNTY: FOND DU LAC | STATE PROJECT NO: 1420-07-70 | SHEET NO: 2.37 | M

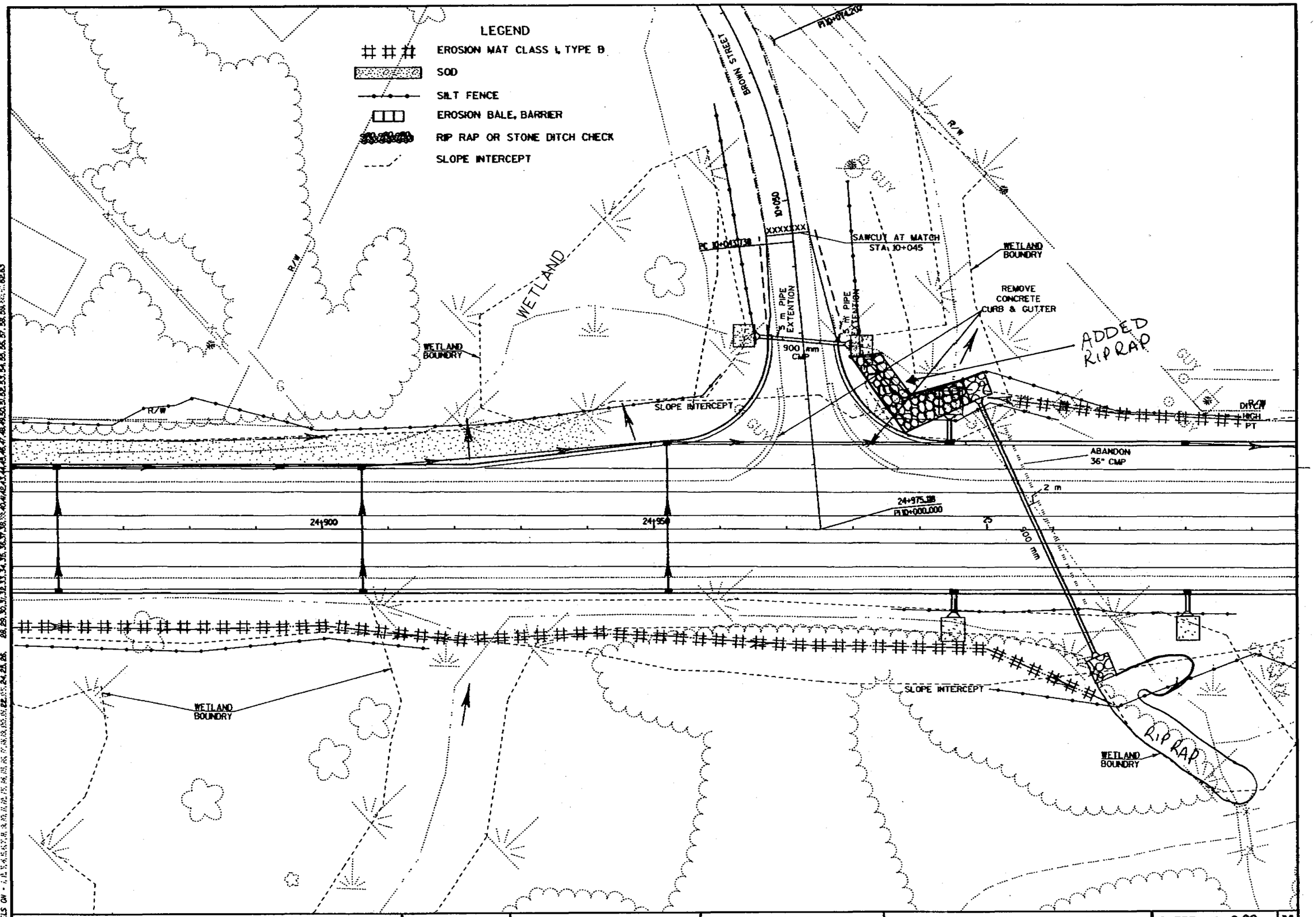
6/18



EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.38	M

7/18

FILE NAME: DB 1420071SUEC087.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 7/8/98 PLOT SCALE: 1 PLOT DATE:

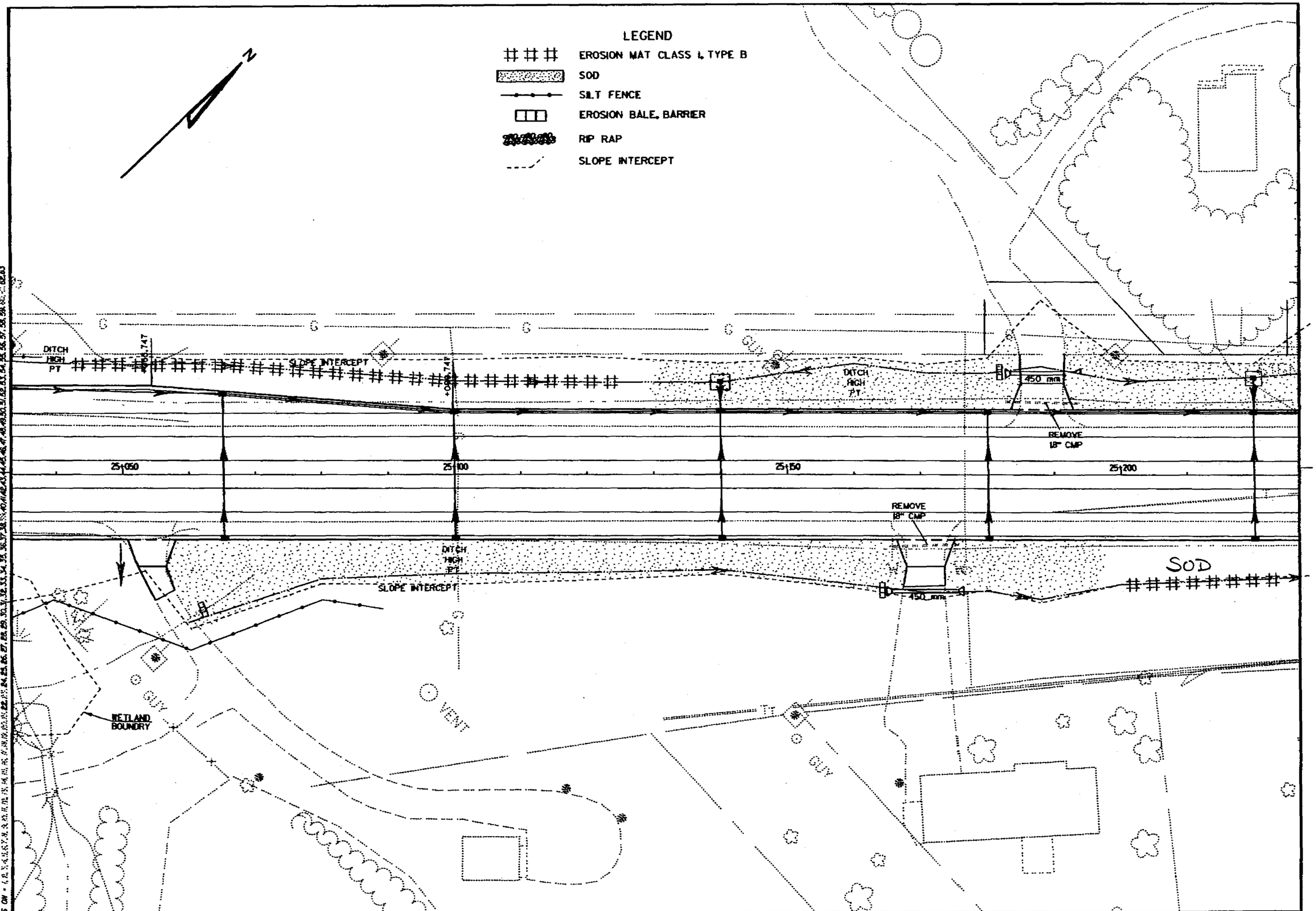


EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 239	M

FILE NAME: D:\ 1420071\SECESS.DGN ORIGINATOR: DISTRICT 2 PLOT SCALE: 1 PLOT DATE: REV. DATE: 7/2/98

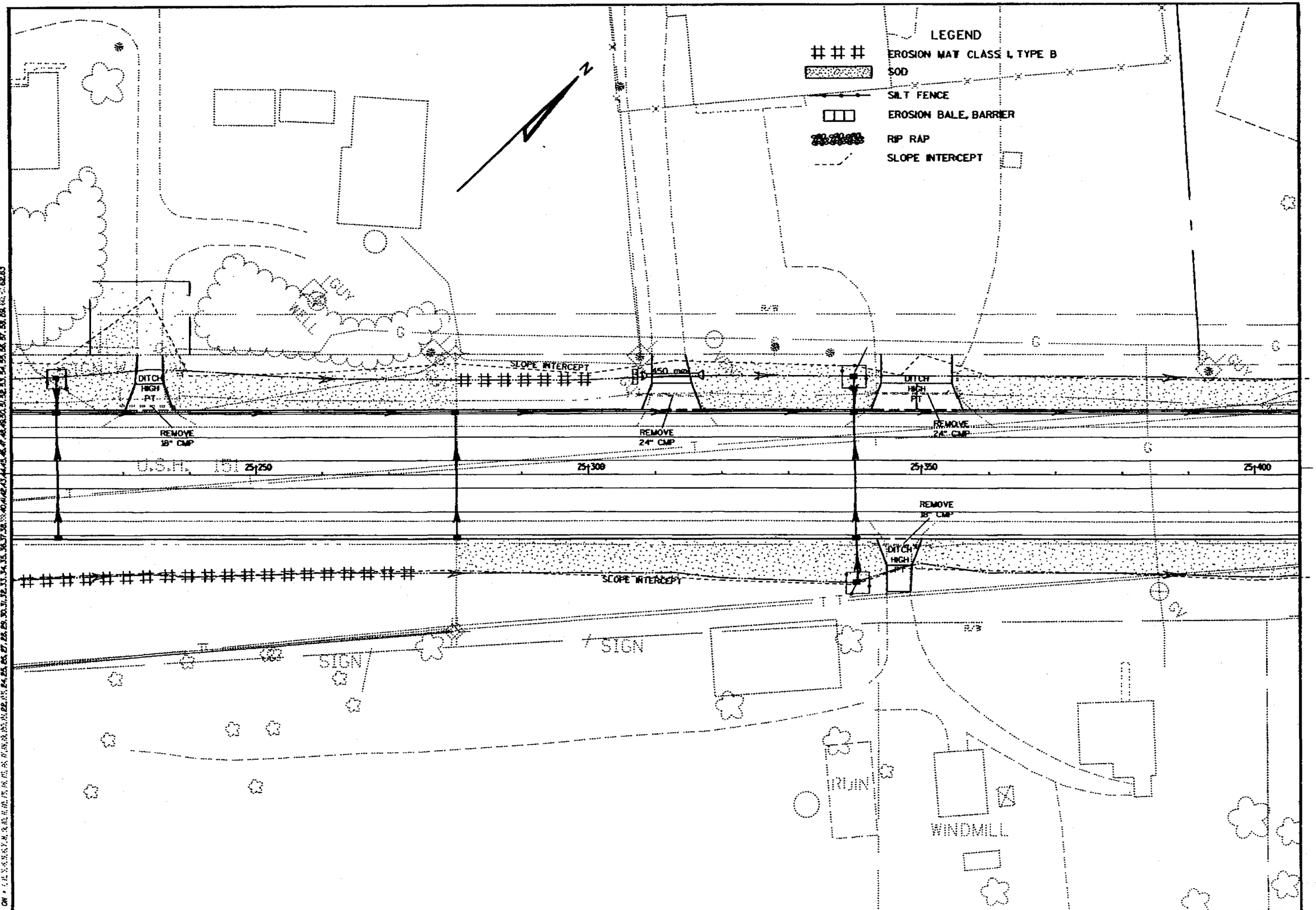
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

8/18



EROSION CONTROL & REMOVALS | SCALE: 1:250 | HWY: USH 151 | COUNTY: FOND DU LAC | STATE PROJECT NO: 1420-07-70 | SHEET NO: 2.40 | M

9/18

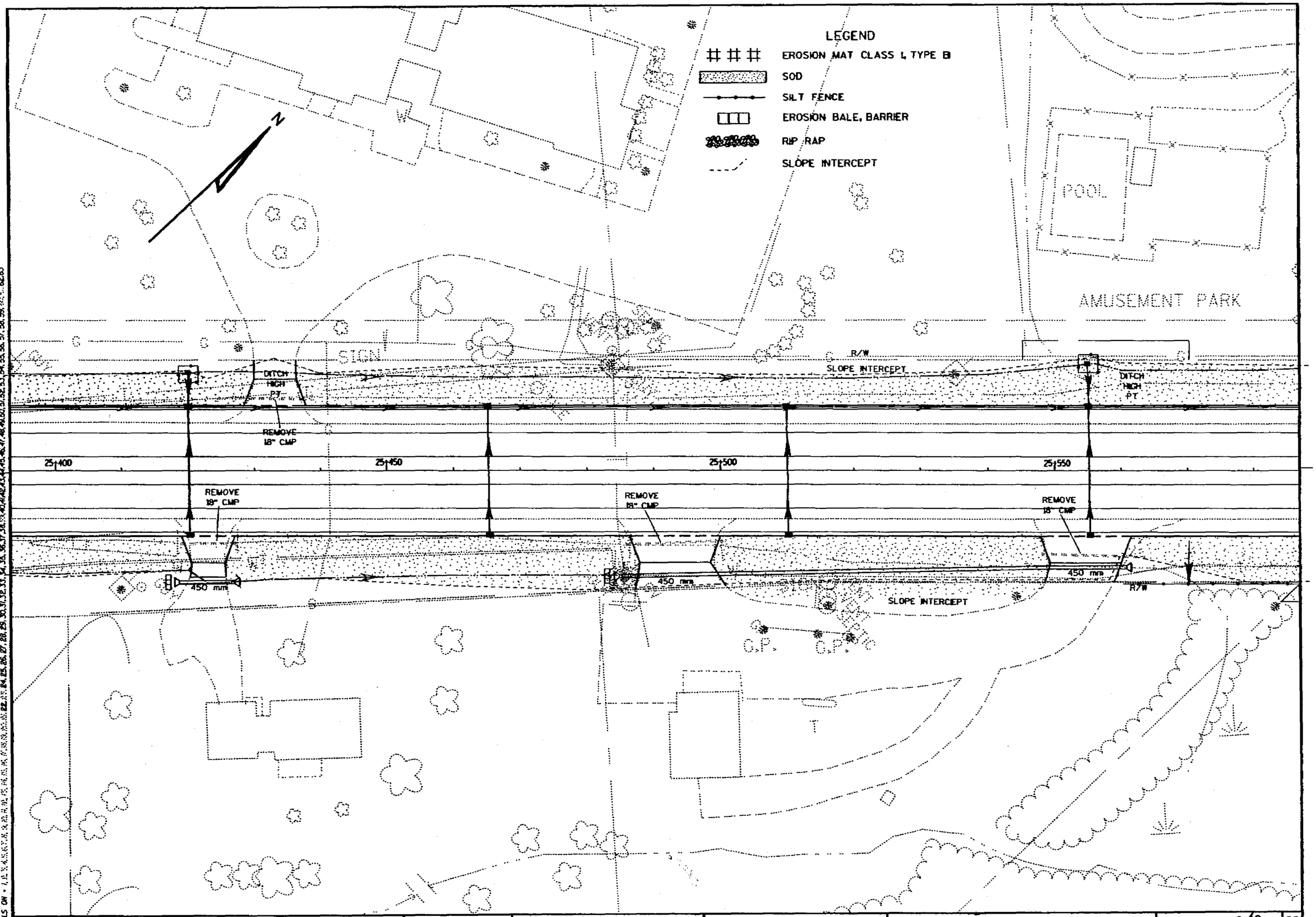


EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.4	M

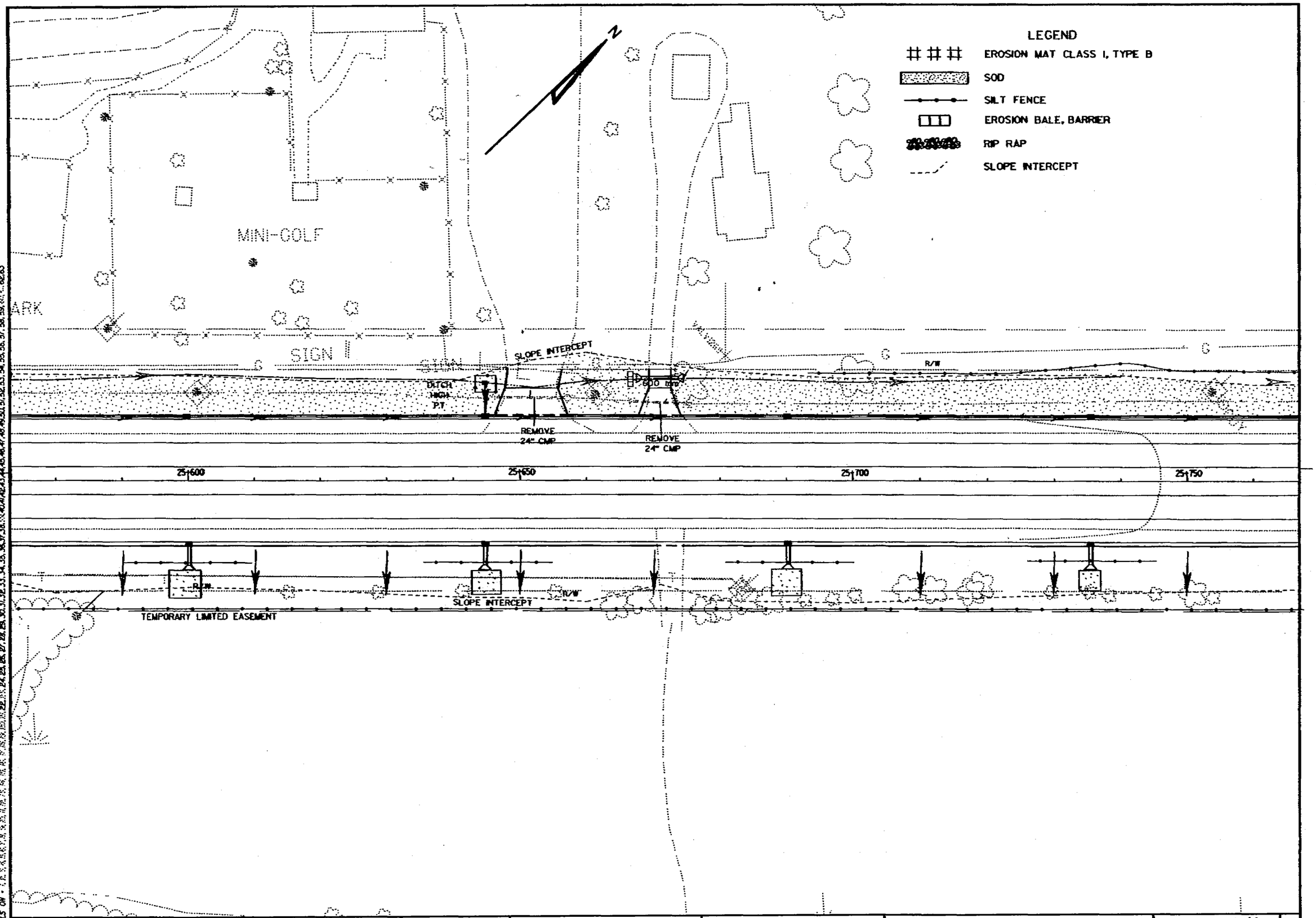
FILE NAME: D:\ 1420071\SEC280.DGN ORIGINATOR: DISTRICT 8 REV. DATE: 7/9/98 PLOT SCALE: 1 PLOT DATE: 98

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

10/18



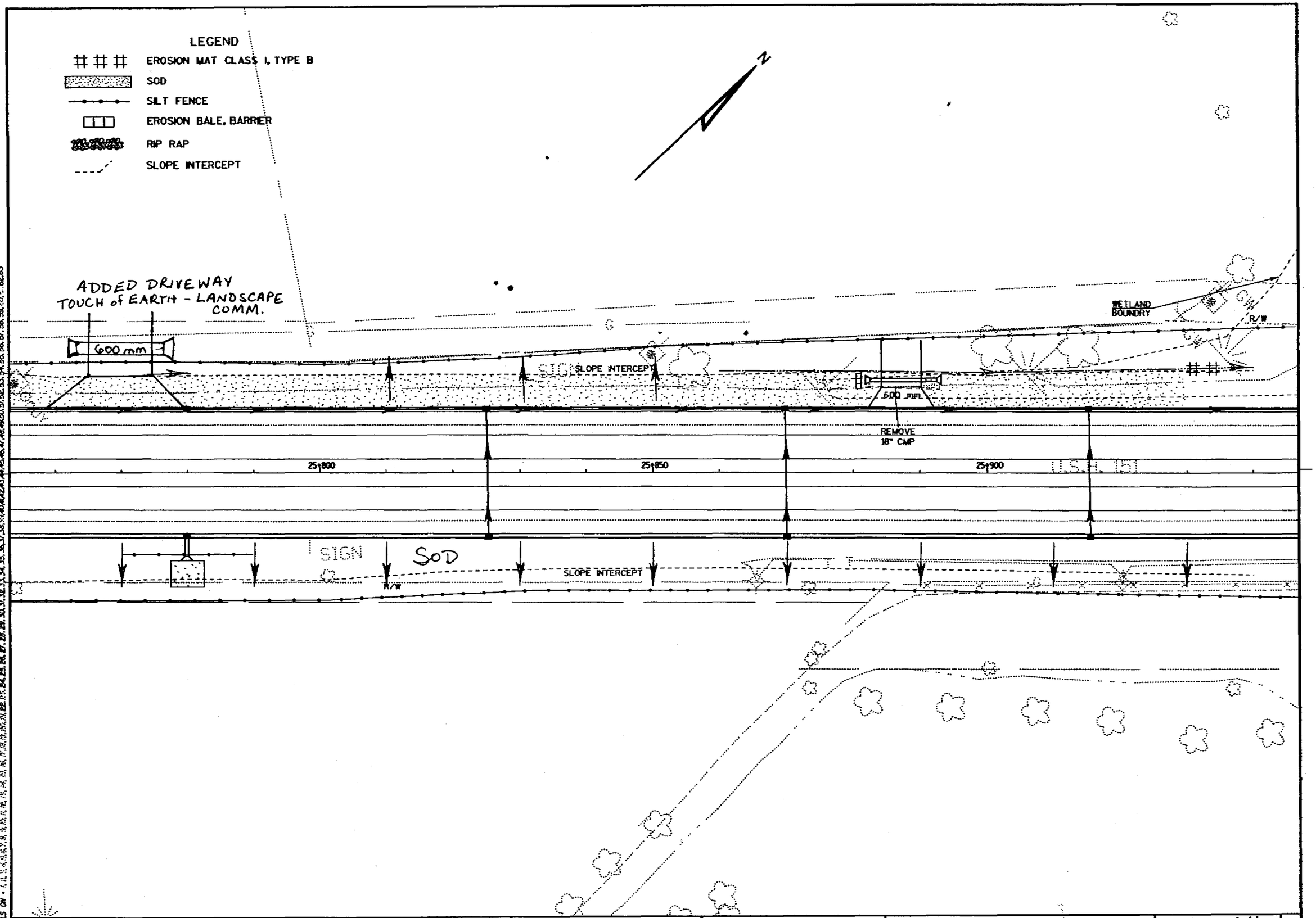
EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.42	M



EROSION CONTROL & REMOVALS | SCALE: 1:250 | HWY: USH 151 | COUNTY: FOND DU LAC | STATE PROJECT NO: 1420-07-70 | SHEET NO: 2.43 | M

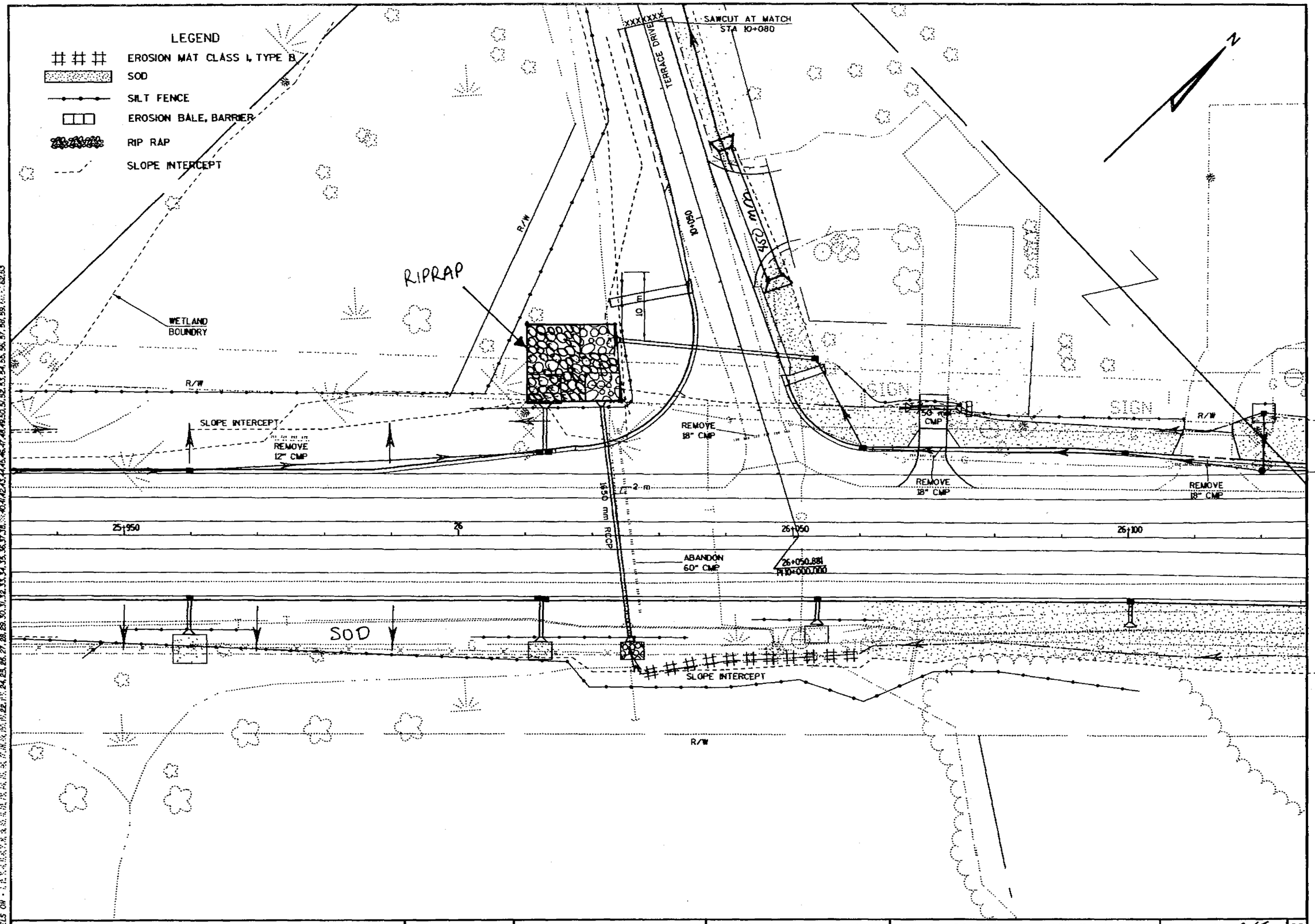
12/18

FILE NAME: D2 1420071SUEC243.DGN ORIGINATOR: DISTRICT 2 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 REV. DATE: 7/8/98 PLOT SCALE: 1 PLOT DATE: 98...plotting date...98

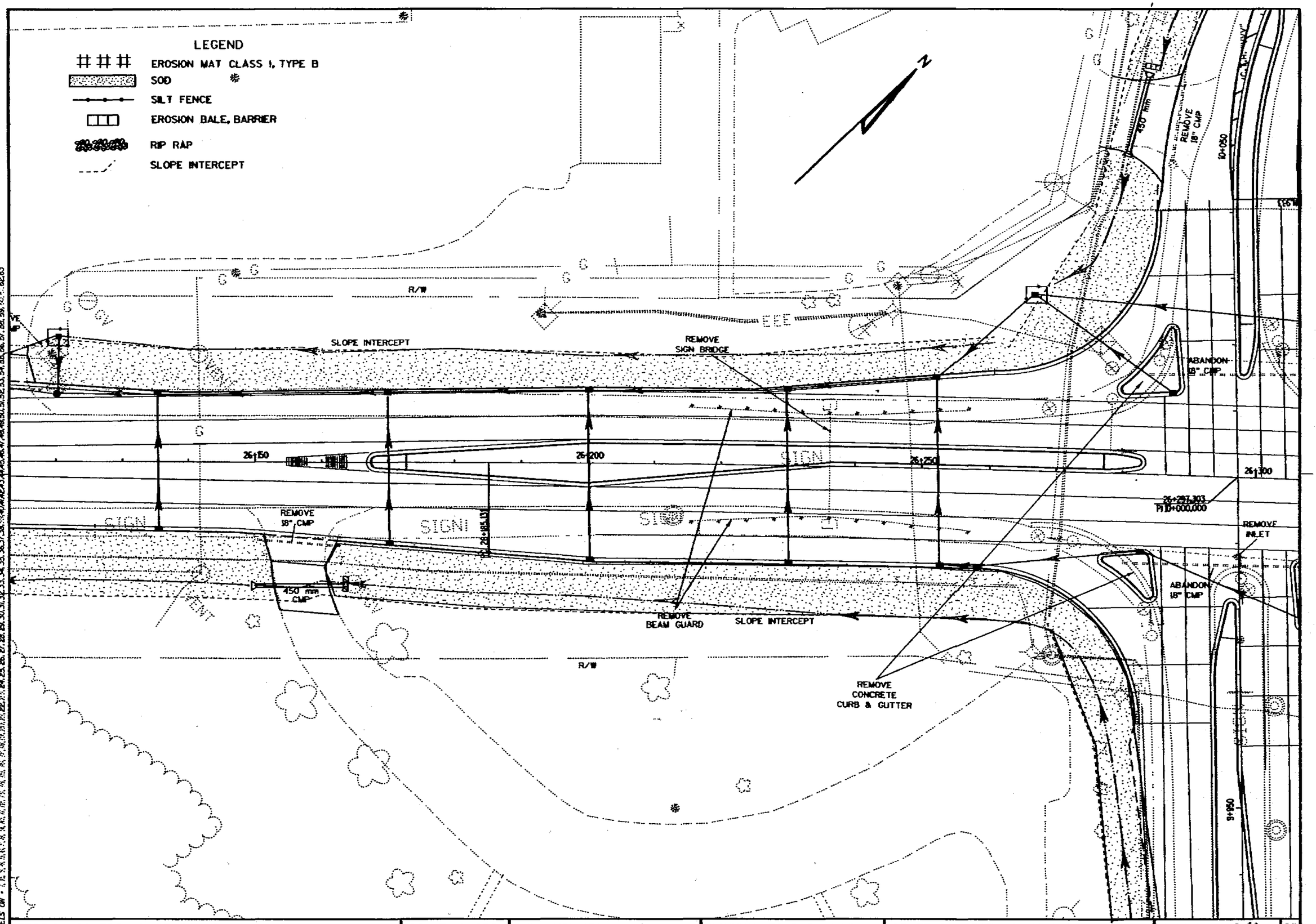


EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.44	M

13/18



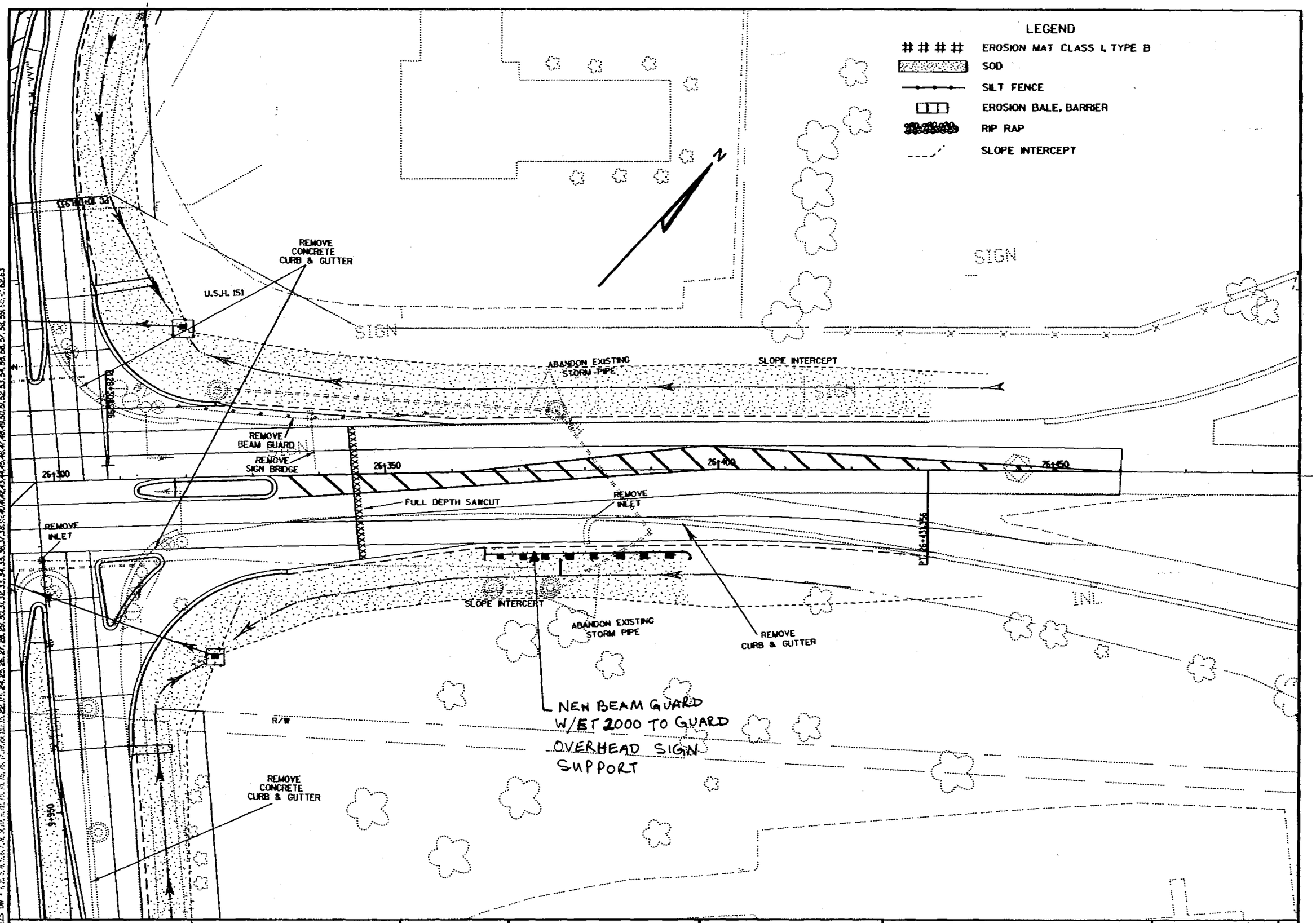
EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.45	M



EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.46	M

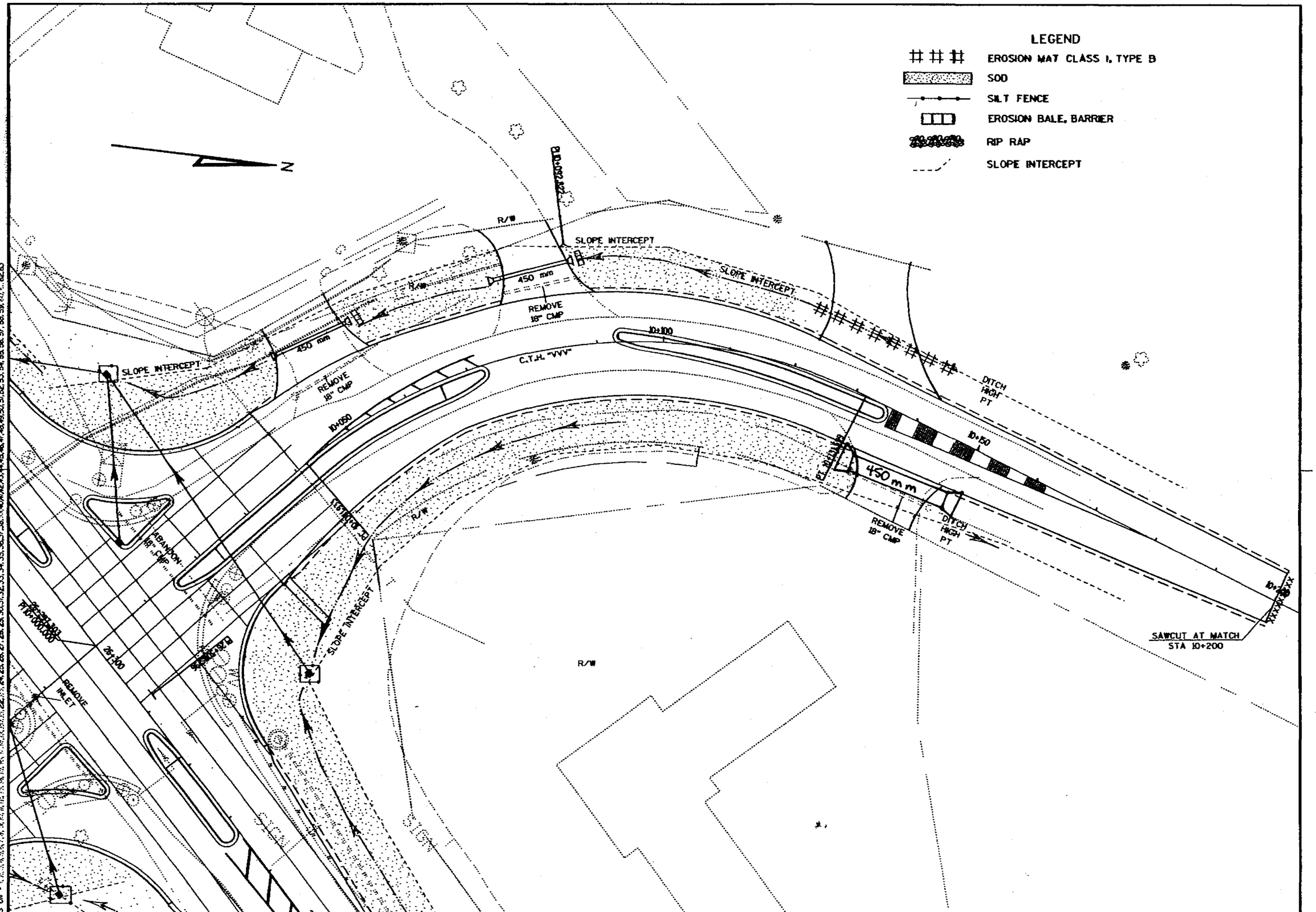
FILE NAME: D2 1420071SHEC2S8.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 7/2/98 PLOT SCALE: 1 PLOT DATE: 98

15/18



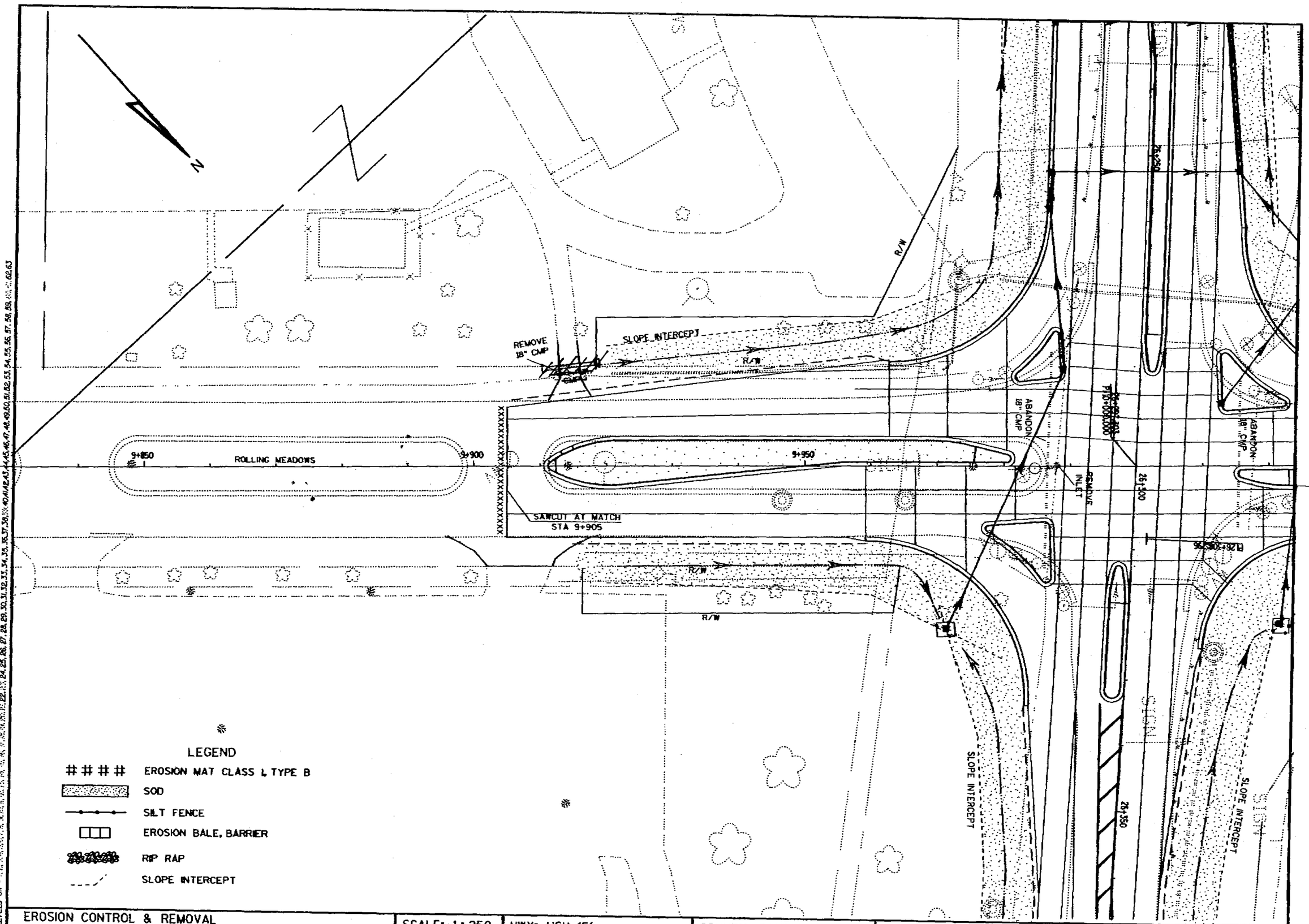
EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.47	M

16/18



EROSION CONTROL & REMOVALS	SCALE: 1:250	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.48	M

17/18



EROSION CONTROL & REMOVAL | SCALE: 1:250 | HWY: USH 151 | COUNTY: FOND DU LAC | STATE PROJECT NO: 1420-07-70 | SHEET NO: 2.49 | M

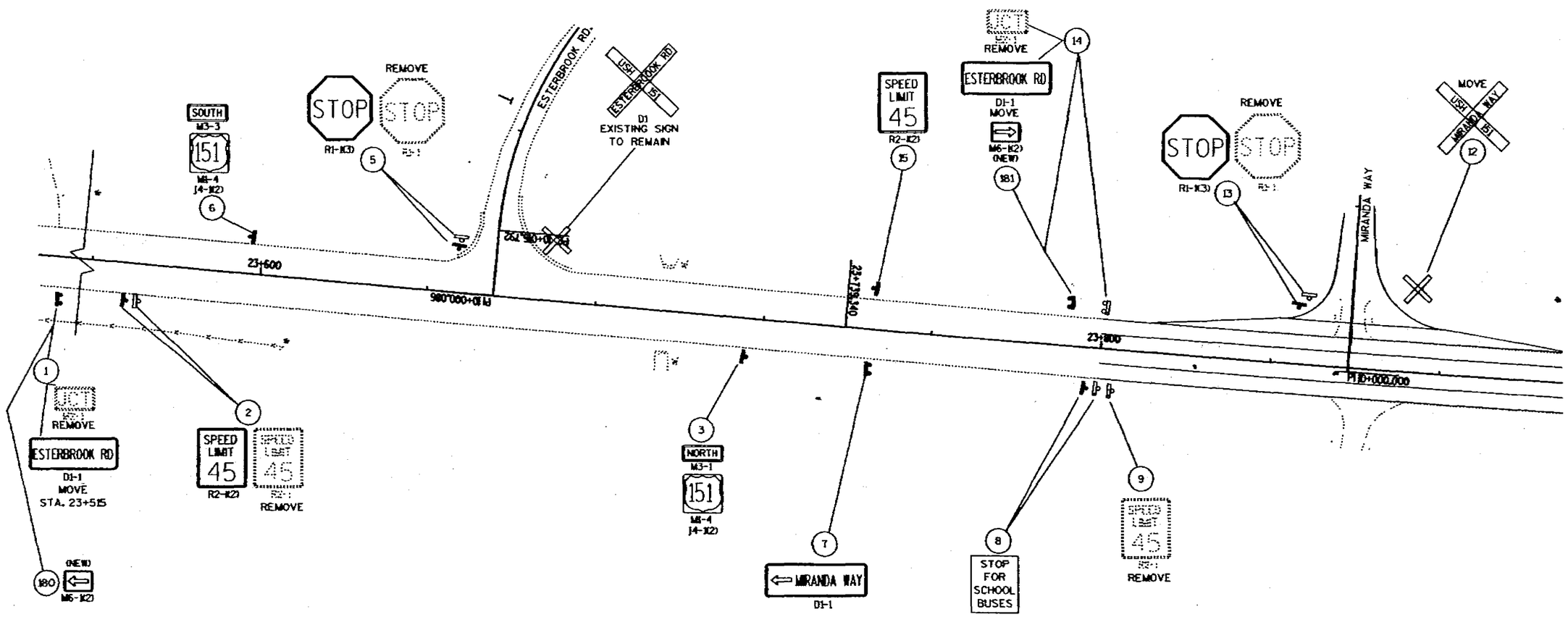
FILE NAME: D2 1420071SECS88.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 7/2/98 PLOT SCALE: 1 PLOT DATE: LEVELS ON

PLOT SCALE:

PLOT NAME:

REV. DATE:

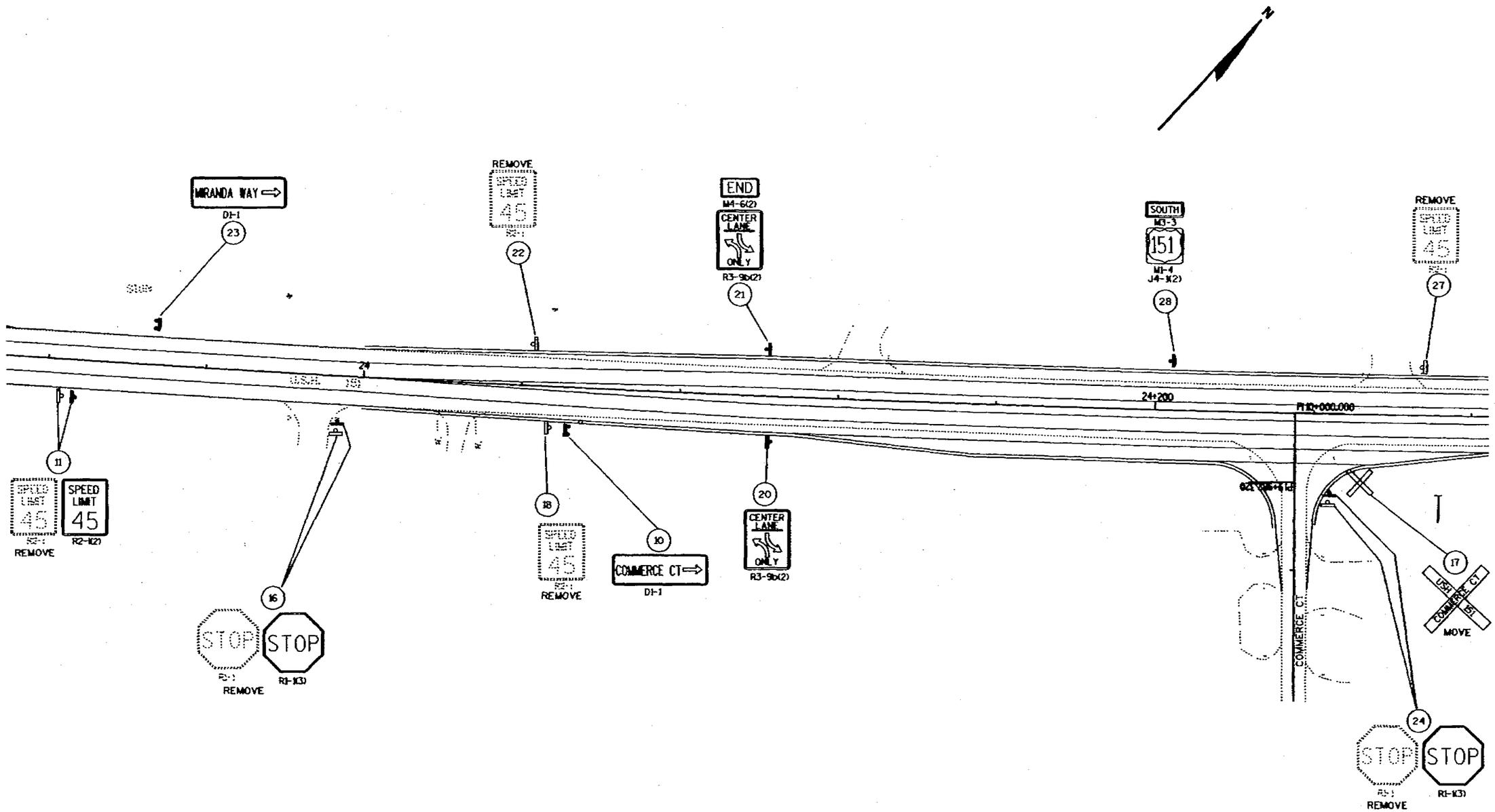
ORIGINATOR: C. BUJANOWSKI



SIGNING PLAN	SCALE: 1:	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 250	M

FILE NAME: D2_SIGNING_MS/D2_S_1420070/PLNSRTOLDGN

WISDOT: MSHT20



SIGNING PLAN	SCALE: 1:	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.51	M

FILE NAME: D2_SIGNING_MS/D2_S_1420070/PLNSHT02.DGN

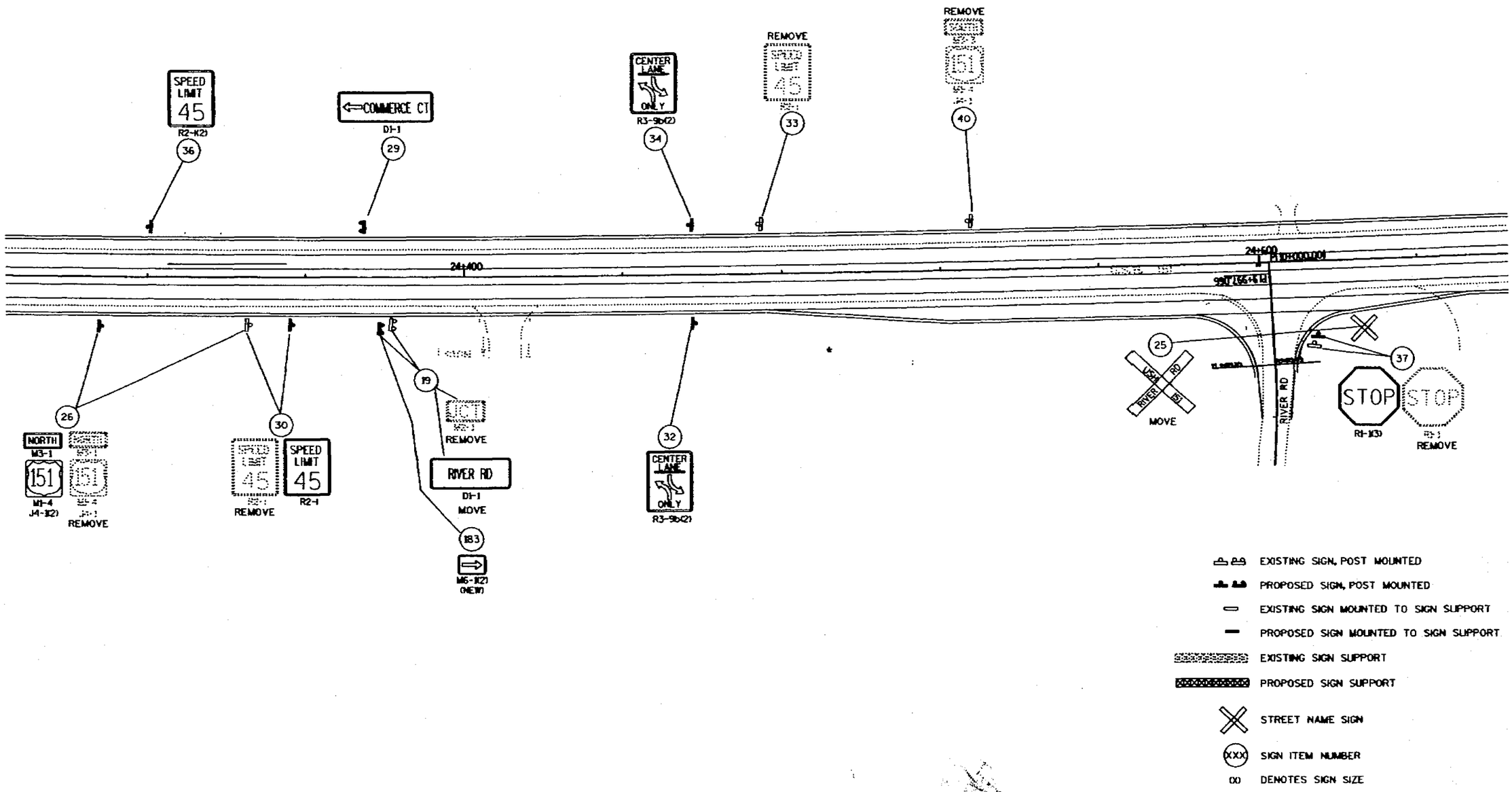
PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: C. BUJANOWSKI

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: C. BUJANOWSKI



SIGNING PLAN	SCALE: 1:	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.52	M

FILE NAME: D2_SIGNING_MS/D2_S_14200770/PLNSHT03.DGN

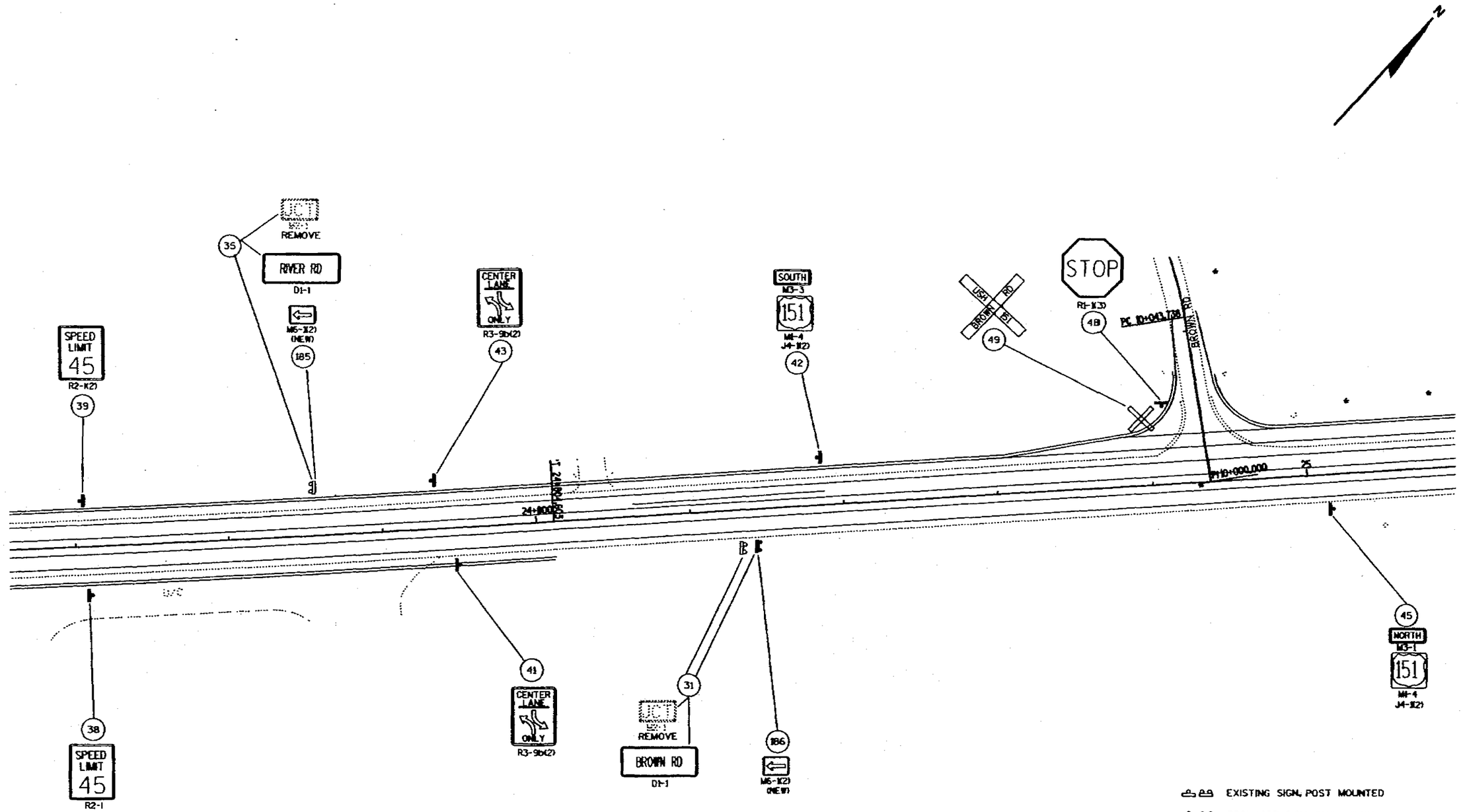
WisDOT: MSHT20

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: C. BUJANOWSKI



EXISTING SIGN, POST MOUNTED

PROPOSED SIGN, POST MOUNTED

EXISTING SIGN MOUNTED TO SIGN SUPPORT

PROPOSED SIGN MOUNTED TO SIGN SUPPORT

EXISTING SIGN SUPPORT

PROPOSED SIGN SUPPORT

STREET NAME SIGN

(XXX) SIGN ITEM NUMBER

(X) DENOTES SIGN SIZE

SIGNING PLAN	SCALE: 1:	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.53	M

FILE NAME: D:\SIGNING_MS\D2.S_14200770\PLNSHTG4.DGN

WisDOT MSHT20

8-1-19-97

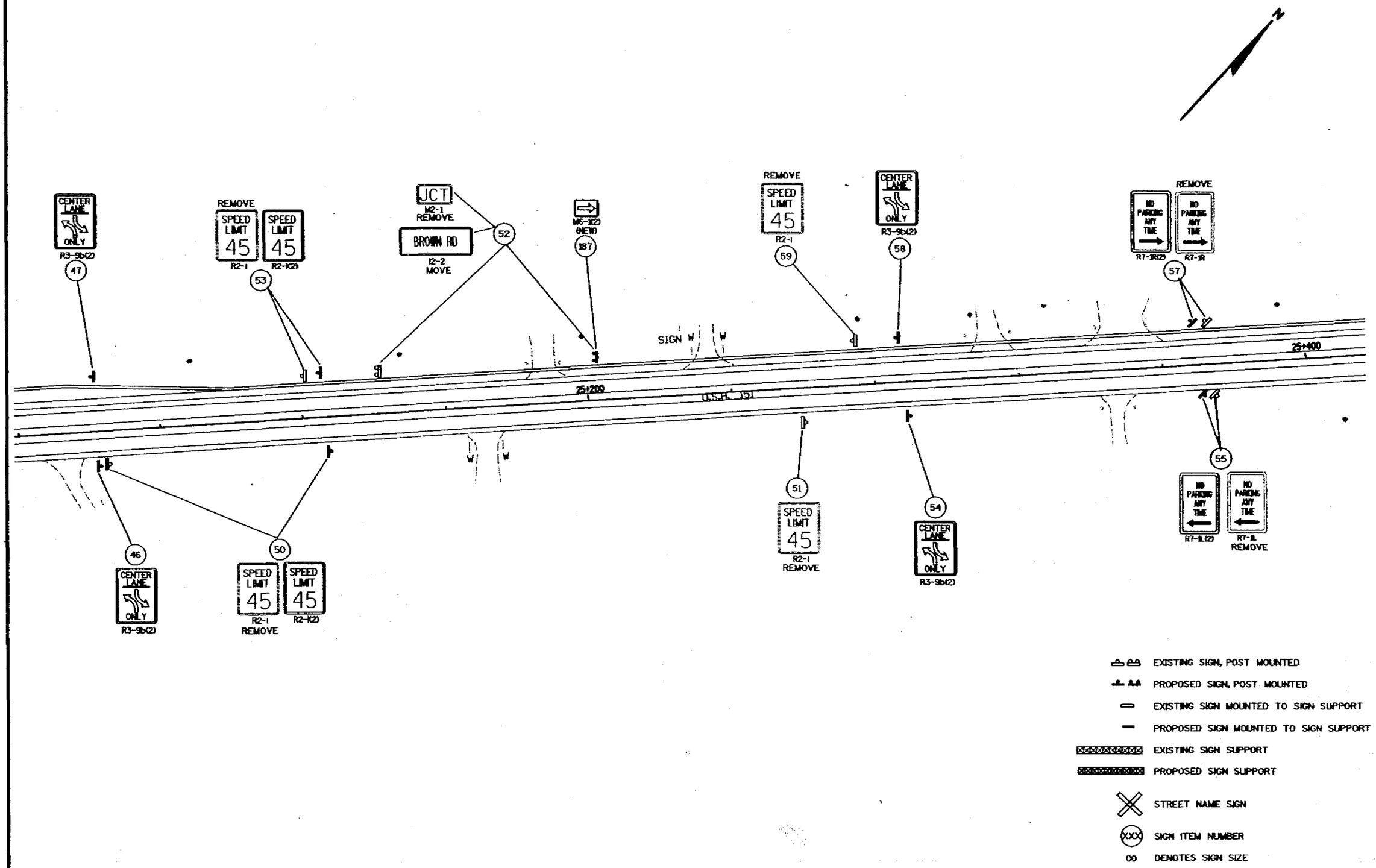
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: C. BUJANOWSKI

5/12



SIGNING PLAN	SCALE: 1:	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.54	M

FILE NAME: D2_SIGNING_MS/D2_S_1420077G/PLNSHT01.DGN

WisDOT: MSHT20

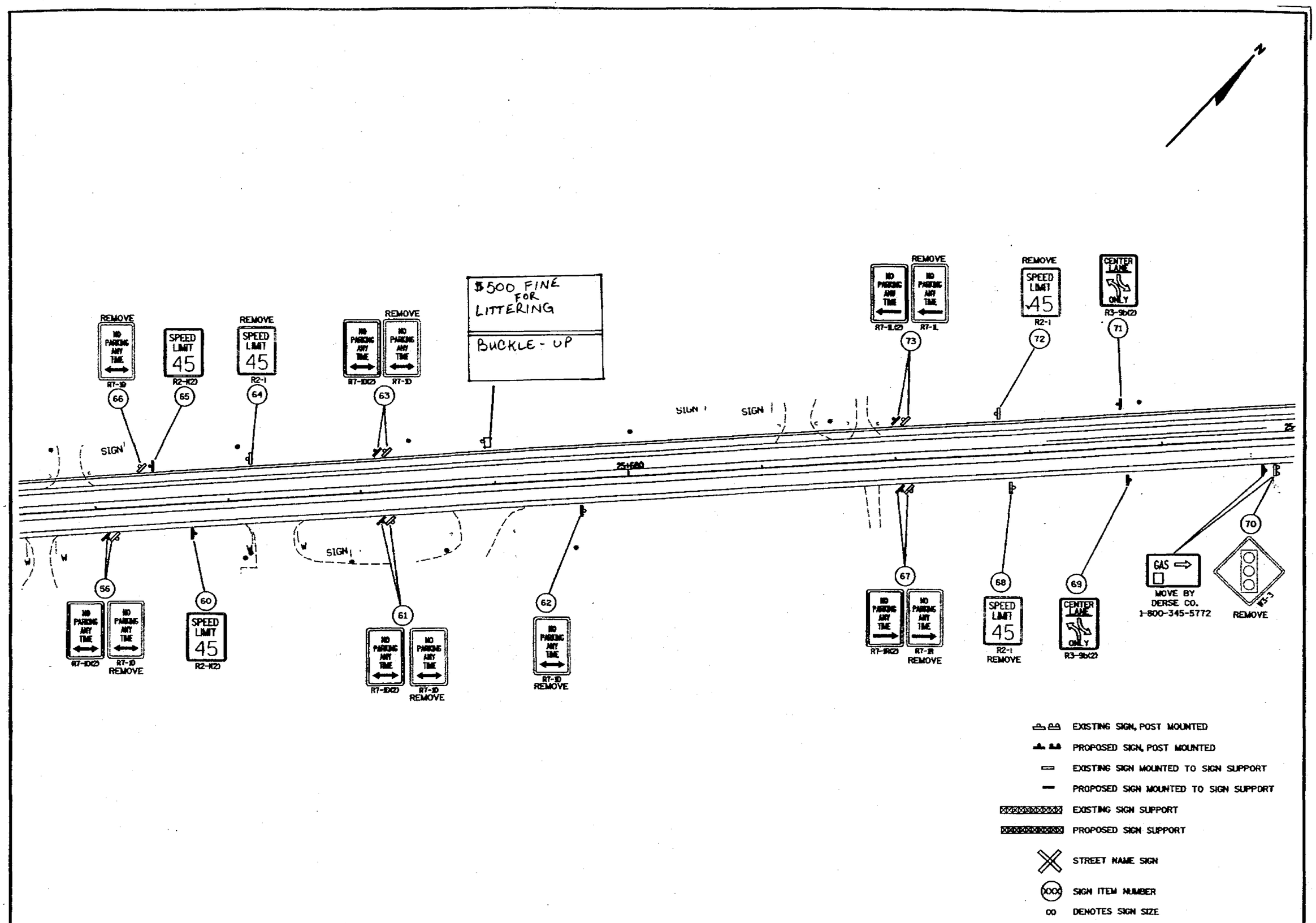
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: C. BUJANOWSKI

6/12



SIGNING PLAN	SCALE: 1:	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.55	M

FILE NAME: D:_SIGNING_MS\02_S_14200770\PLNSHT04.DGN

WISDOT: MSHT20

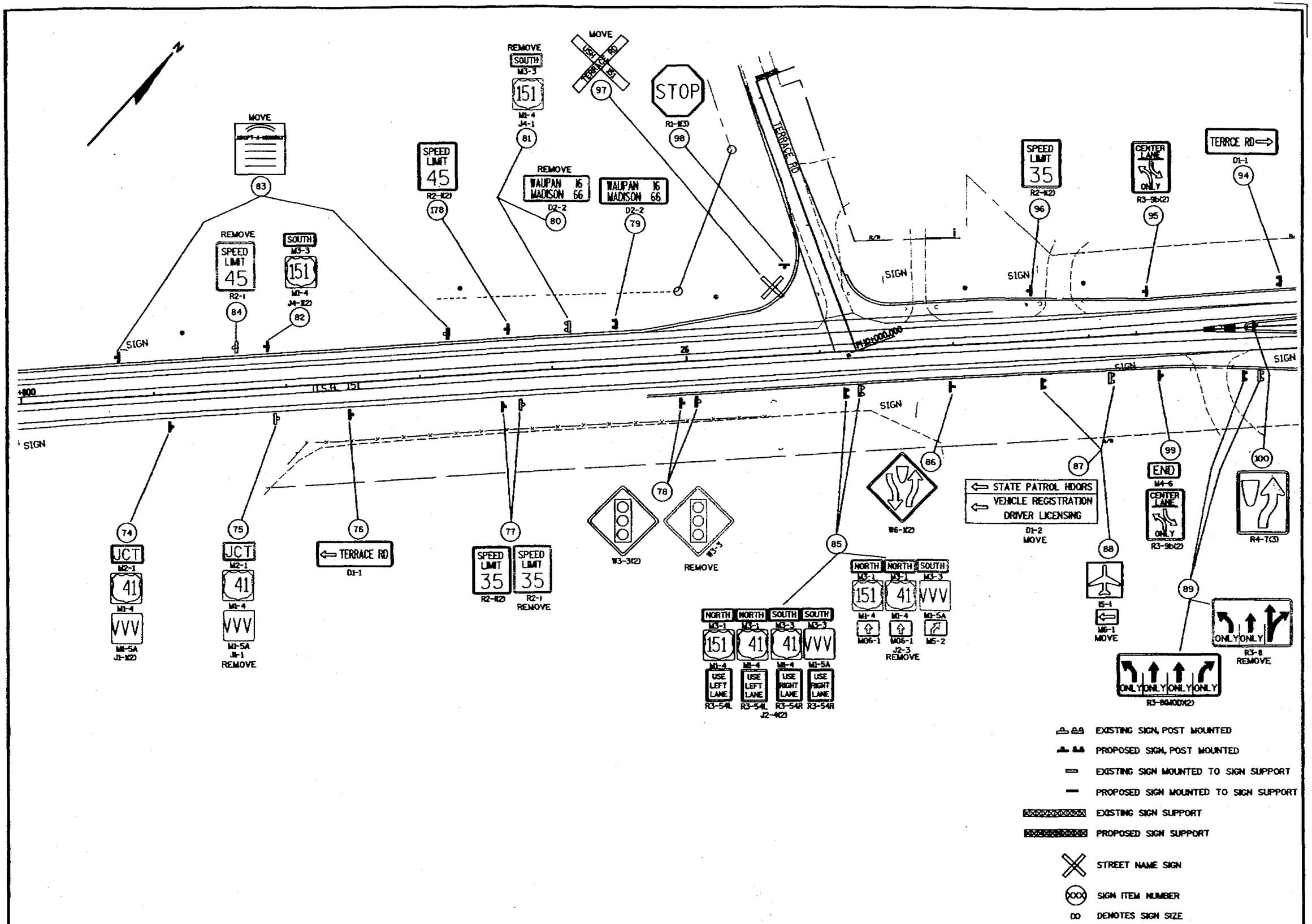
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: C. BUJANOWSKI

7/12

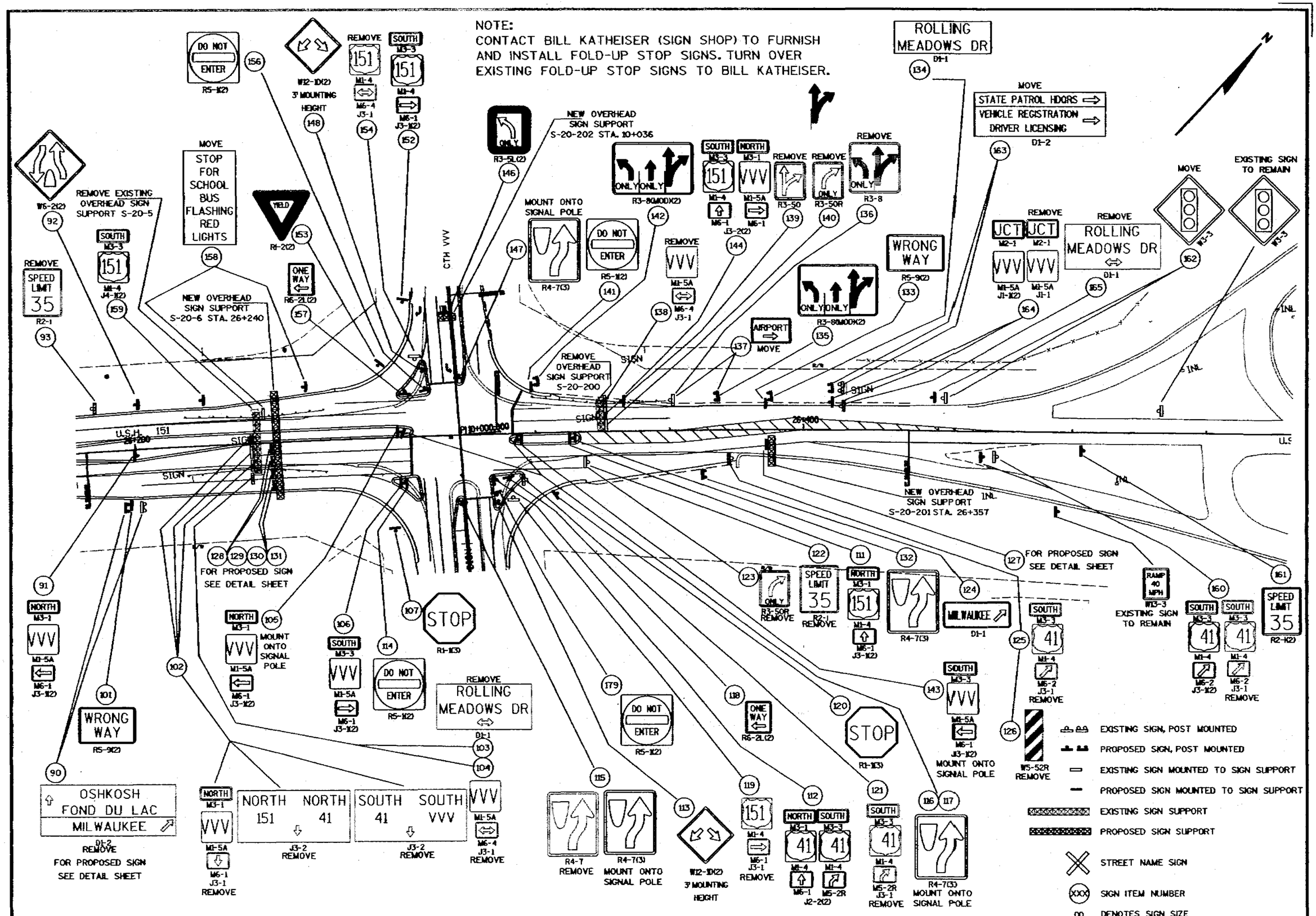


SIGNING PLAN	SCALE: 1:	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.56	M

FILE NAME: 02_SIGNING_MS/02_S_1420077G/PLANSHT07.DGN

WI-DOT: MSHT20

NOTE:
CONTACT BILL KATHEISER (SIGN SHOP) TO FURNISH AND INSTALL FOLD-UP STOP SIGNS. TURN OVER EXISTING FOLD-UP STOP SIGNS TO BILL KATHEISER.



SIGNING PLAN	SCALE: 1:	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.57	M

FILE NAME: 02_SIGNING_MS/02_S_14200770/PLNSHT08.DGN

WisDOT: MSHT20

PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: C. BUJANOWSKI

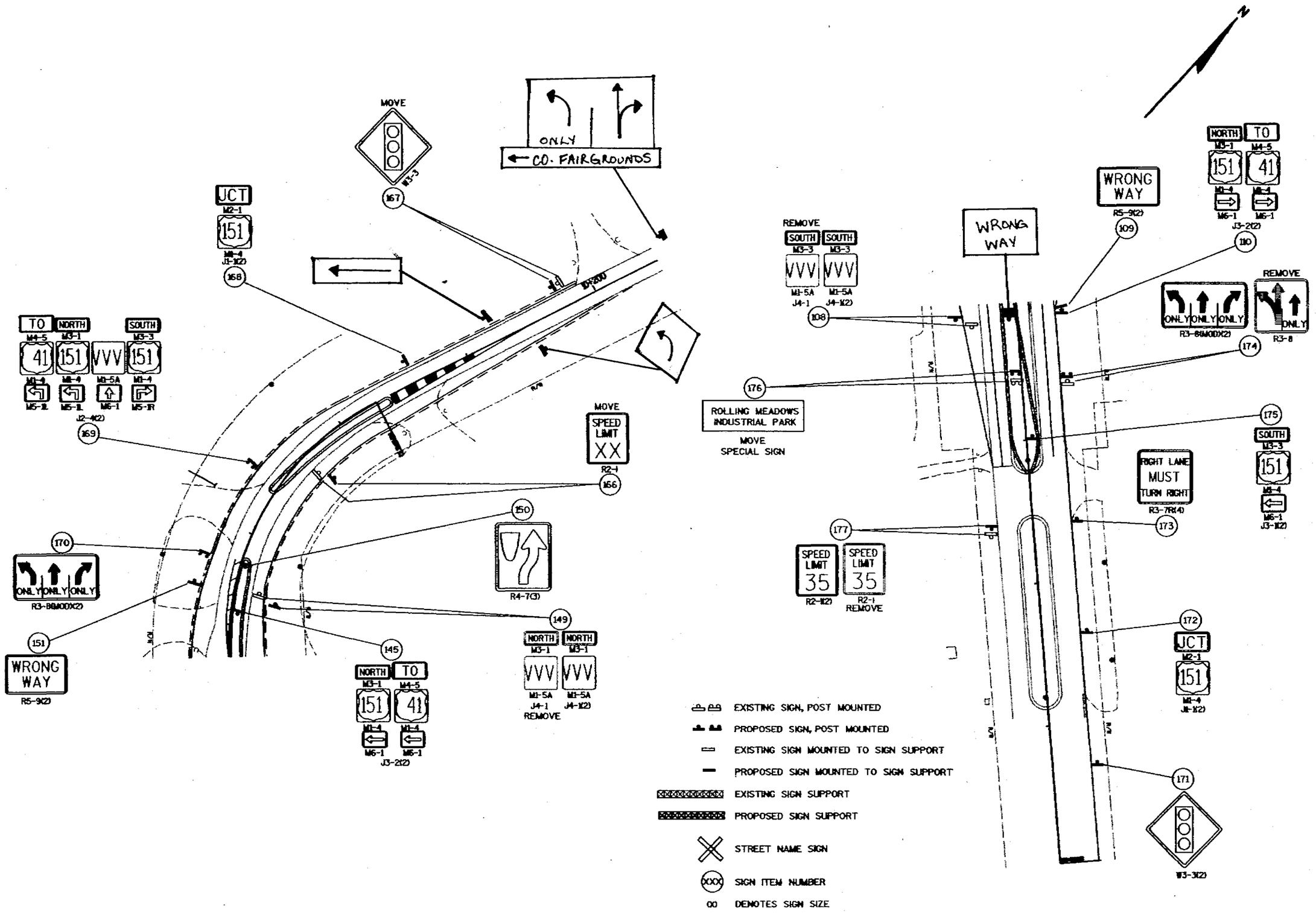
8/12

PLOT SCALE:

PLOT NAME:

REV. DATE: 9/12

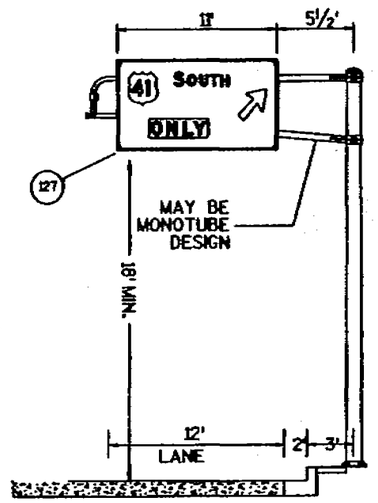
ORIGINATOR: C. BUJANOWSKI



SIGNING PLAN	SCALE: 1:	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.58	M

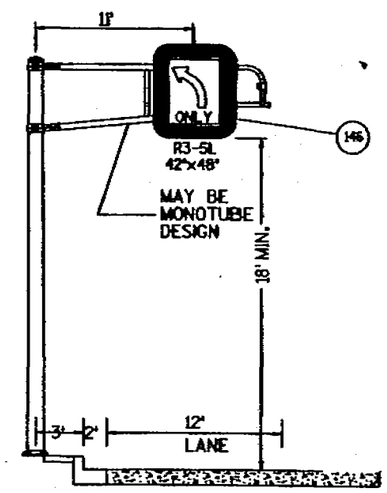
FILE NAME: D2_SIGNING_MS/D2_S_14200770/PLNSHT05.DGN

WisDOT: MSHT20



OVERHEAD SIGN SUPPORTS DETAIL
S-20-201
STA 26+357

NOTE:
CONTRACTOR SHALL HAVE SUPPLIER DESIGN FOOTING PER SPECIALS SECTION 64L SUBMIT SHOP DRAWINGS OF FOOTING AND OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.



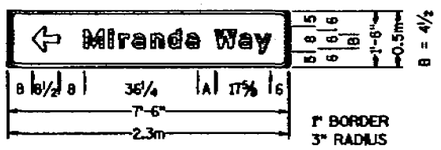
OVERHEAD SIGN SUPPORTS DETAIL
S-20-202
STA 10+036

NOTE:
CONTRACTOR SHALL HAVE SUPPLIER DESIGN FOOTING PER SPECIALS SECTION 64L SUBMIT SHOP DRAWINGS OF FOOTING AND OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.

PLOT SCALE: 24
PLOT NAME:
REV. DATE:
ORIGINATOR: C. BUJANOWSKI
10/12

OVERHEAD SIGN SUPPORT DETAIL	SCALE: 1:24	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.59	M

FILE NAME: D2_SIGNING_MS/D2_S_1420070/OH_S_DET.DGN
WisDOT: MSHT20



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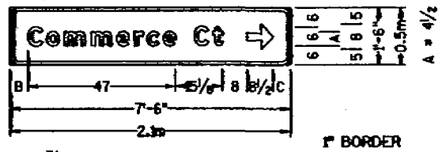

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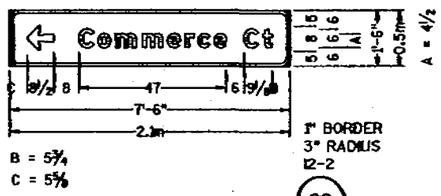

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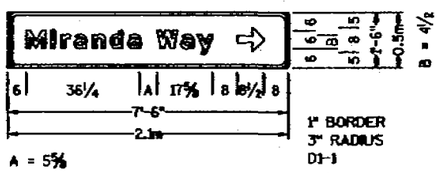

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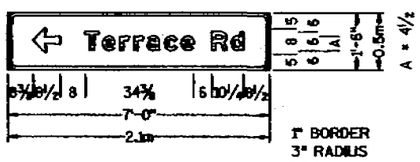

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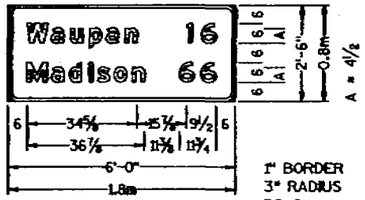

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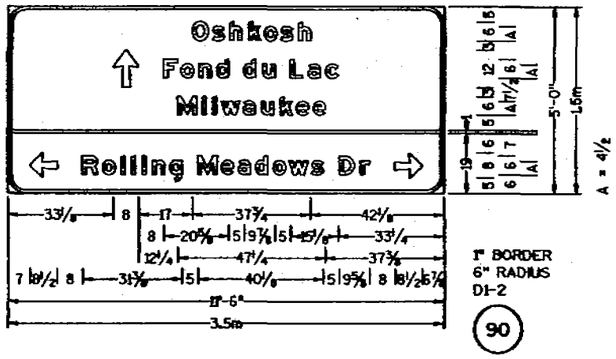

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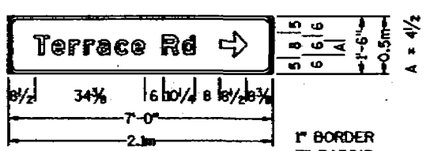

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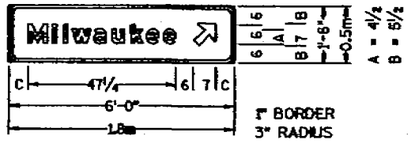
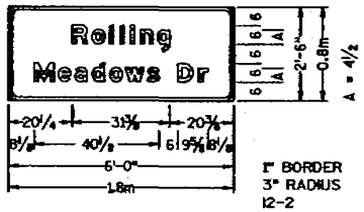


124



134

NOTES:

1. ALL SIGNS ARE TYPE I(EXCEPT AS NOTED)-TYPE H REFLECTIVE-REFERECE "WIS DOT STANDARD SPECIFICATION FOR HIGHWAY AND STRUCTURE CONSTRUCTION" LATEST EDITION.
2. COLOR:
   BACKGROUND - GREEN (EXCEPT AS NOTED)
   MESSAGE - WHITE
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. ALL CAP LETERS ARE SERIES E MODIFIED. ALL UPPER AND LOWER CASE LETTERS ARE SERIES E MODIFIED.
5. SIGN NUMBERS SHOWN BY: ◯

SIGNING DETAILS - TYPE II SIGNS	SCALE: 1:24	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.60

FILE NAME: D2_SIGNING_MS/D2_S_14200770/SGNDET.DGN

WisDOT: MSHT20

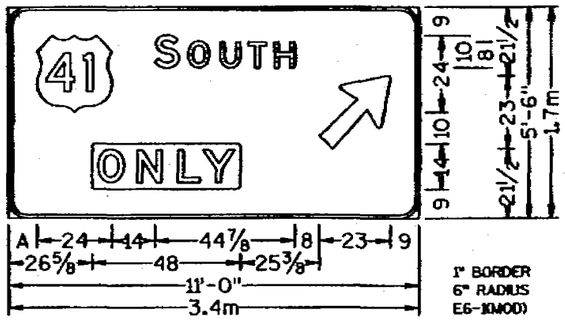
PLOT SCALE: 24

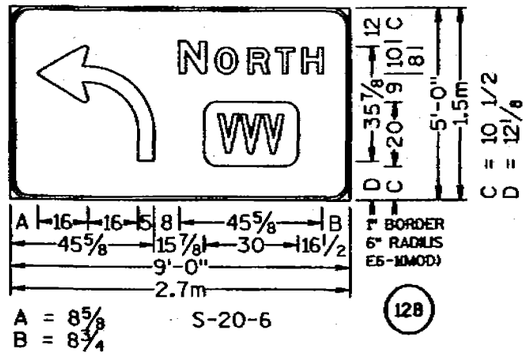
PLOT NAME:

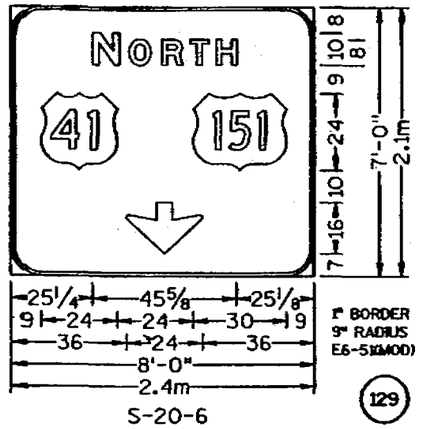
REV. DATE:

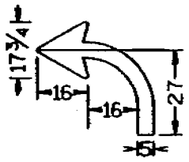
11/12

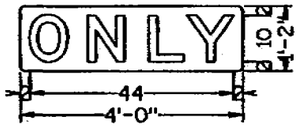
ORIGINATOR: D2 TRAFFIC OPERATIONS UNIT



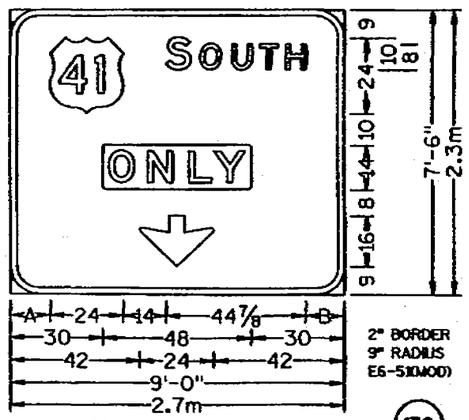


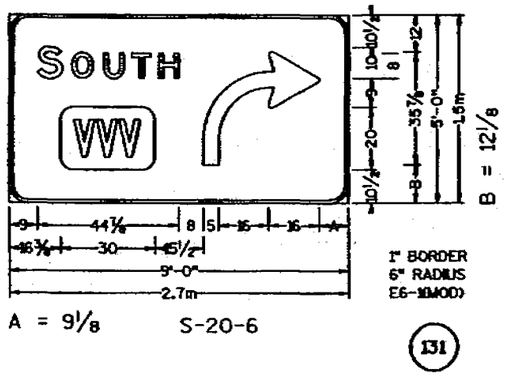






E11-18(MOD)
COLORS: BACKGROUND - YELLOW
MESSAGE - BLACK NON REFLECTIVE





NOTES:

1. ALL SIGNS ARE TYPE I(EXCEPT AS NOTED)-TYPE H REFLECTIVE-REFERECE "WIS DOT STANDARD SPECIFICATION FOR HIGHWAY AND STRUCTURE CONSTRUCTION" LATEST EDITION.
2. COLOR:
   BACKGROUND - GREEN (EXCEPT AS NOTED)
   MESSAGE - WHITE
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. ALL CAP LETERS ARE SERIES E MODIFIED. ALL UPPER AND LOWER CASE LETTERS ARE SERIES E MODIFIED.
5. SIGN NUMBERS SHOWN BY: ◯

SIGNING DETAIL - TYPE I SIGNS	SCALE: 1:24	HWY: 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.61

FILE NAME: D2_SIGNING_MS/D2_S_1420070/SGNDET.DGN

WisDOT: MSHT20

PLOT SCALE: 24

PLOT NAME:

REV. DATE:

ORIGINATOR: D2 TRAFFIC OPERATIONS UNIT

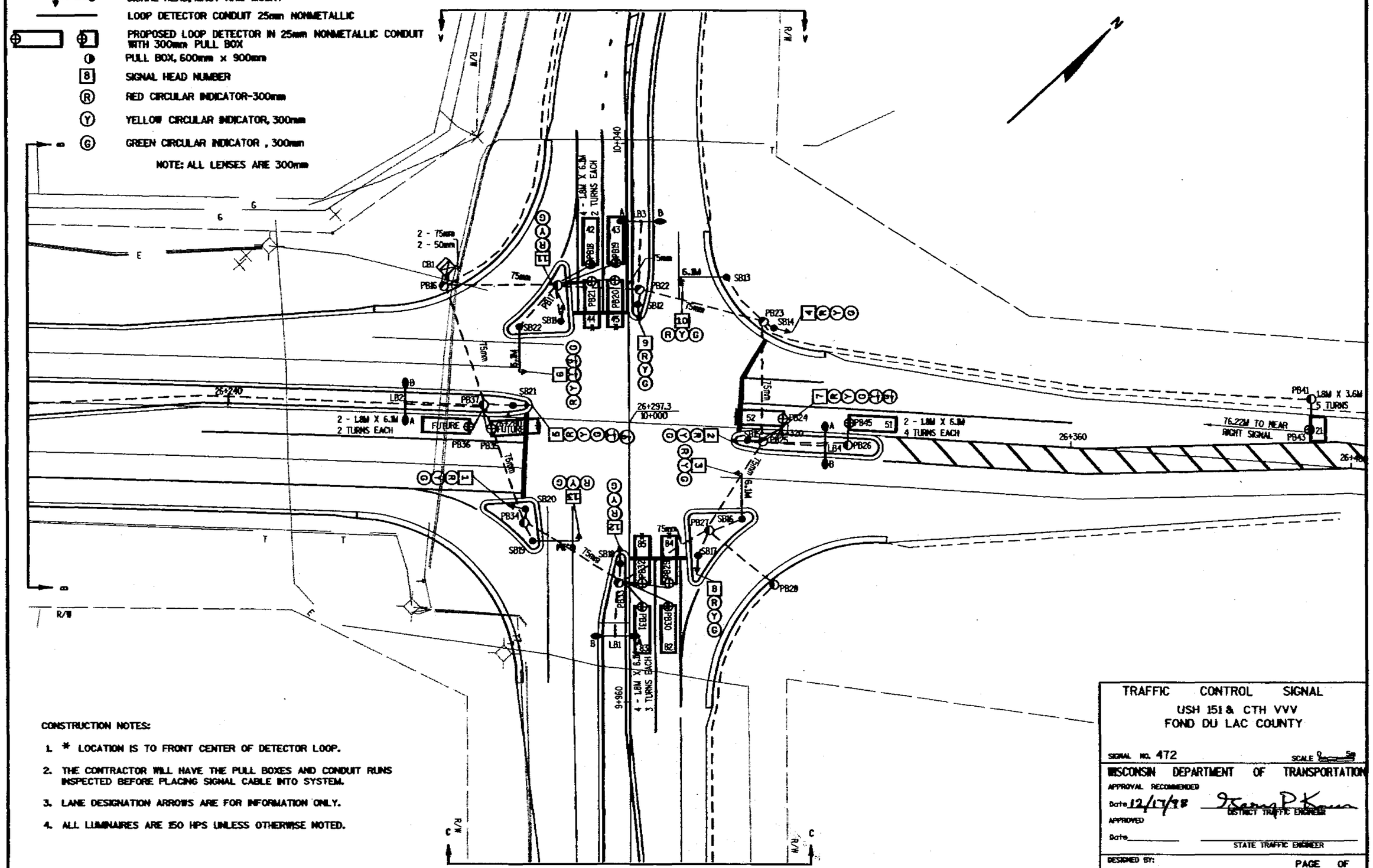
12/2

LEGEND

- CONTROL CABINET
- PROPOSED NONMETALLIC CONDUIT 50mm, UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- SIGNAL HEAD, MAST-ARM MOUNT
- LOOP DETECTOR CONDUIT 25mm NONMETALLIC
- PROPOSED LOOP DETECTOR IN 25mm NONMETALLIC CONDUIT WITH 300mm PULL BOX
- PULL BOX, 600mm x 900mm
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR-300mm
- YELLOW CIRCULAR INDICATOR, 300mm
- GREEN CIRCULAR INDICATOR , 300mm

NOTE: ALL LENSES ARE 300mm

- YELLOW ARROW - 300mm
- GREEN ARROW - 300mm



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR WILL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO SYSTEM.
3. LANE DESIGNATION ARROWS ARE FOR INFORMATION ONLY.
4. ALL LUMINAIRES ARE 150 HPS UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL SIGNAL
USH 151 & CTH VVV
FOND DU LAC COUNTY

SIGNAL NO. 472 SCALE 0 5m

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 12/17/98 — DISTRICT TRAFFIC ENGINEER
APPROVED
Date _____ — STATE TRAFFIC ENGINEER

DESIGNED BY: PAGE OF

TRAFFIC SIGNAL PLAN	HWY: USH 151 & CTH VVV	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.62	M

FILE NAME: d2_sl_1420070014720l.dgn

WI-DOT: MSHT20

PLOT SCALE:
PLOT NAME:
REV. DATE: 7/98
ORIGINATOR: D2 - JAV
1/14

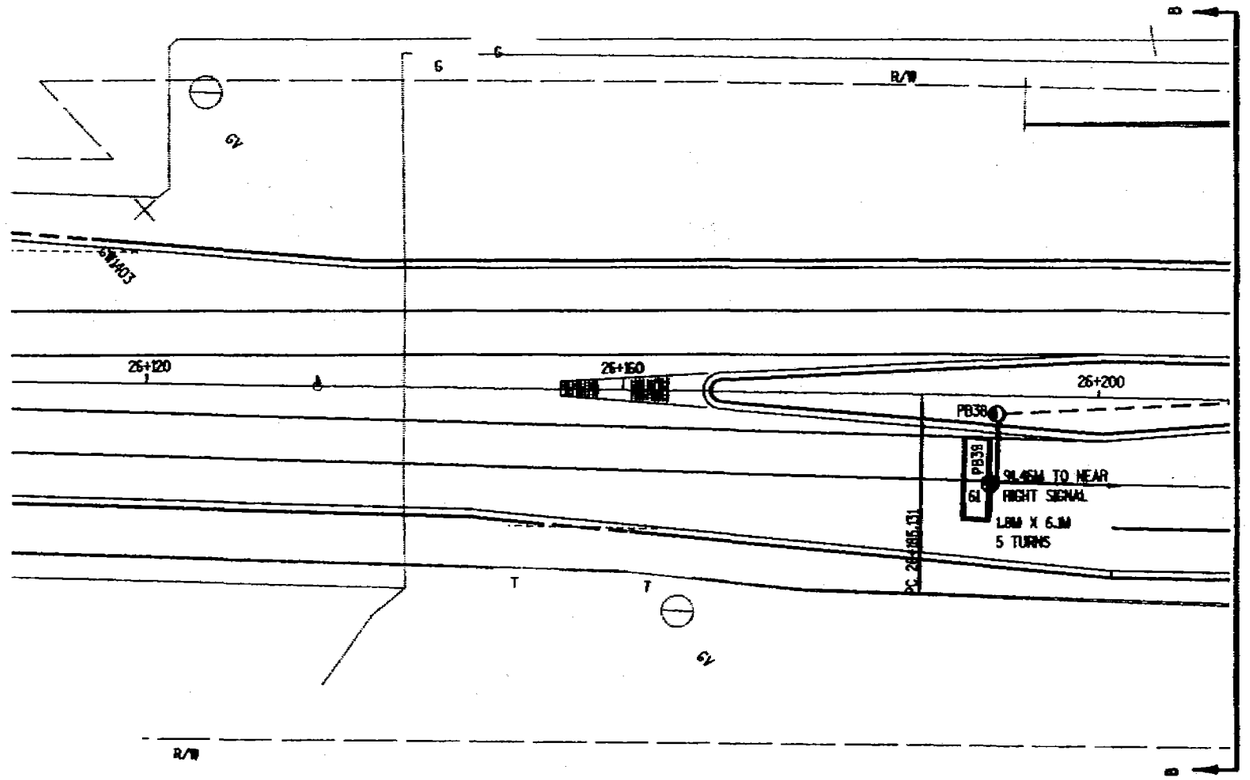
PLOT SCALE:

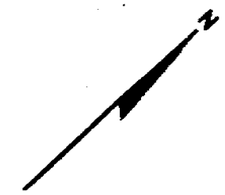
PLOT NAME:

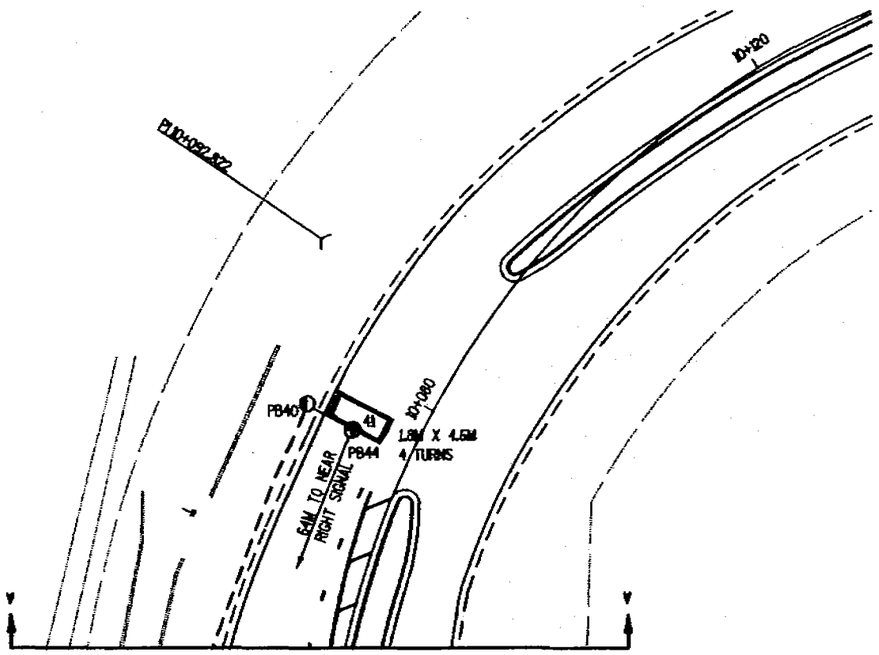
REV. DATE:

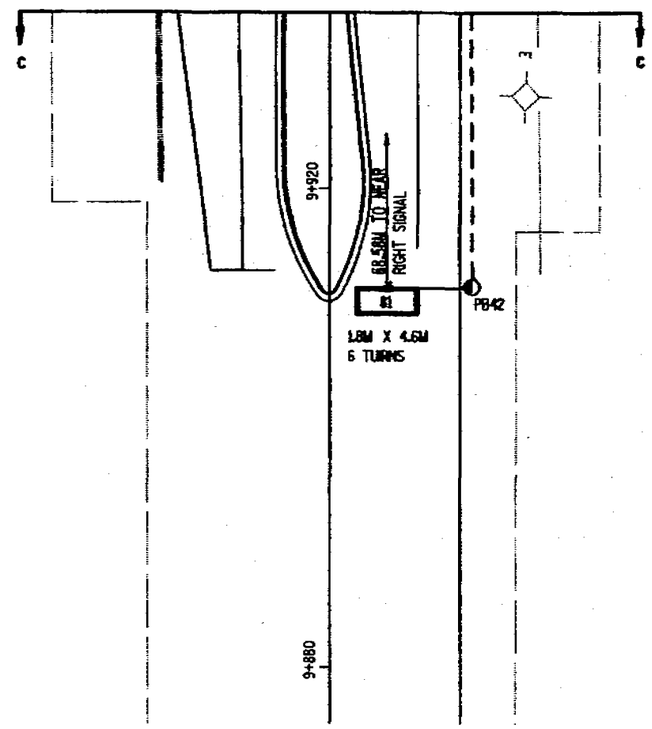
ORIGINATOR:

2/14









TRAFFIC SIGNAL PLAN		HWY: USH 151 & CTH VVV	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.63	M

FILE NAME: d2_el_14200700:s43ia1.dgn

WisDOT: MSHT20

SEQUENCE OF OPERATION

NOT USED | ← | NOT USED | ↓

	HEAD NUMBERS	01 R/W	01 CLEAR TO **	02 R/W	02 CLEAR TO **	03 R/W	03 CLEAR TO **	04 R/W	04 CLEAR TO **	FLASH
01										
02	4,5,6,7			G Y R				R R R		R
03										
04	11,12,13			R R R				G Y R		R
RING 1 05	5,6,7			- - -				- - -		-
06	1,2,3			R R R				R R R		R
07										
08	8,9,10			R R R				R R R		R
02P										
04P										
06P										
08P										

↓ | → | NOT USED | ↑

	HEAD NUMBERS	05 R/W	05 CLEAR TO **	06 R/W	06 CLEAR TO **	07 R/W	07 CLEAR TO **	08 R/W	08 CLEAR TO **
01									
02	4,5,6,7	R	R R R	R	R R R			R	R R R
03									
04	11,12,13	R	R R R	R	R R R			R	R R R
RING 2 05	5,6,7	~~G~~	~~Y~~ -	-	- - -			-	- - -
06	1,2,3	R	R R R	G	Y R			R	R R R
07									
08	8,9,10	R	R R R	R	R R R			G	Y R
02P									
04P									
06P									
08P									

N

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK.

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
01		
02	5 OR 6	4,8
03		
04	8	2,5,6
05	2	4,6,8
06	2	4,5,8
07		
08	4	2,5,6

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
21	1	X			2	2				1.8x3.6	5
41	2			X		4			X	1.8x4.6	4
42	3	X			4	4				1.8x6.1	2
43	4	X			4	4				1.8x6.1	2
44	3	X			4	4				1.8x6.1	2
45	4	X			4	4				1.8x6.1	2
51	5	X			5	5				1.8x6.1	4
52	6			X		5				1.8x6.1	4
61	7	X			6	6				1.8x6.1	5
81	8			X		8			X	1.8x4.6	6
82	9	X			8	8				1.8x6.1	3
83	10	X			8	8				1.8x6.1	3
84	9	X			8	8				1.8x6.1	3
85	10	X			8	8				1.8x6.1	3
FUTURE										1.8x6.1	2
FUTURE										1.8x6.1	2

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY # / #	PHASE RECALL
1		6	
2	X	6	MIN.
3		8	
4		8	
5		2	
6	X	2	MIN.
7		4	
8		4	

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

TYPE OF INTERCONNECT	
NONE	X
TBC	
CLOSED LOOP	
HARDWIRE (7 WIRE)	
TONE (FREQ)	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

USH 151 & CTH VVV

SIGNAL NO. 472

DATE | SHEET NO. OF

SEQUENCE OF OPERATION | SCALE: 1: NTS | HWY: STH 151 & CTH VVV | COUNTY: FOND DU LAC | STATE PROJECT NO: 1420-07-70 | SHEET NO: 2.64 | M

FILE NAME: D2_SI_1420706ETYS.DGN

WisDOT: MSHT20

PLOT SCALE:
PLOT NAME:
REV. DATE: 7/98
ORIGINATOR: D2 JAV

3/14

CABLE ROUTING
STH 151 & CTH VVV

SIGNAL CABLE LAYOUT

FROM	-	TO	14 AWG NO. OF CONDUCTORS	HEAD NO.	COLOR CODE
CB1	-	SB22	12/C	6	R/BL, O/BL, G/BL, BL/WH, BLUE/BL
				11	R,O,G
SB22	-	SB11	5/C	11	R,O,G
CB1	-	SB12	12/C	9	R,O,G
CB1	-	SB13	12/C	4	R/BL, O/BL, G/BL
				10	R,O,G
SB13	-	SB14	5/C	4	R,O,G
CB1	-	SB15	12/C	2	R,O,G
				7	R/BL, O/BL, G/BL, BL/WH, BLUE/BL
CB1		SB16	12/C	3	R/BL, O/BL, G/BL
				8	R,O,G
SB16	-	SB17	5/C	8	R,O,G
CB1	-	SB18	12/C	12	R,O,G
CB1	-	SB19	12/C	1	R/BL, O/BL, G/BL
				13	R,O,G
SB19	-	SB20	5/C	1	R,O,G
CB1	-	SB21	12/C	5	R/BL, O/BL, G/BL, BL/WH, BLUE/BL

65545 TYPE UF CABLE, 2 CONDUCTOR, NO. 12, GROUNDED
65557 ELECTRICAL WIRE, TRAFFIC SIGNALS, NO. 10

ELECT. WIRE TRAFF. SIG. NO. 10 (WHITE)		ELECT. WIRE TRAFF. SIG. NO.10 (GREEN)		TYPE UF 2 COND. NO. 12 GROUNDED	
FROM	TO	FROM	TO	FROM	TO
CB1	SB11	CB1	PB16	CIRCUIT "A"	
SB11	SB12	PB17	SB11		
SB12	SB13	PB22	SB12	CB1	LB3
SB13	SB14	PB23	SB14	LB3	LB4
SB14	SB15	PB25	SB15	CB1	LB2
SB15	SB16	PB27	SB17	LB2	LB1
SB16	SB17	PB33	SB18		
SB17	SB18	PB34	SB20	CIRCUIT "B"	
SB18	SB19	PB37	SB21		
SB19	SB20			CB1	LB3
SB20	SB21	CB1	SB11	LB3	LB4
SB21	SB22	SB11	SB12	CB1	LB2
SB22	CB1	SB12	SB13	LB2	LB1
		SB13	SB14		
		SB14	SB15		
		SB15	SB16		
		SB16	SB17		
		SB17	SB18		
		SB18	SB19		
		SB19	SB20		
		SB20	SB21		
		SB21	SB22		
		SB22	CB1		

PLOT SCALE:
PLOT NAME:
REV. DATE: 7/98
4/14
ORIGINATOR: D2 JAV

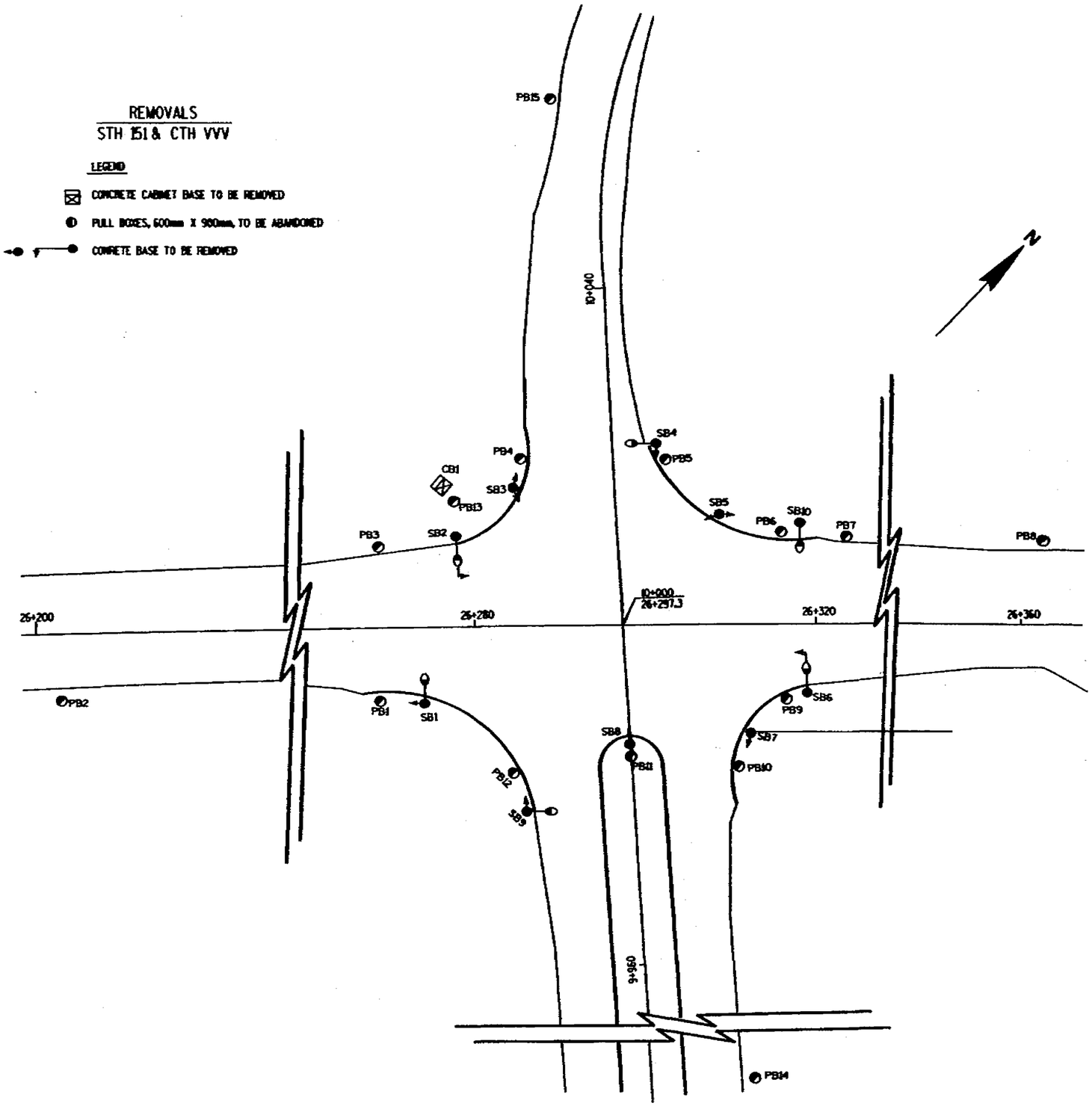
CABLE ROUTING	SCALE: 1:NTS	HWY: STH 151& CTH VVV	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.65	M

FILE NAME: D2_SI_1420070SOTYS.DGN
WisDOT: MSHT20

REMOVALS
STH 151 & CTH VVV

LEGEND

- CONCRETE CABINET BASE TO BE REMOVED
- PULL BOXES, 600mm X 900mm, TO BE ABANDONED
- CONRETE BASE TO BE REMOVED



REMOVALS	SCALE: 1:250	HWY: STH 151 & CTH VVV	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-00	SHEET NO: 2.66	M

FILE NAME: d2_si_142007004720.dgn

WisDOT: MSHT20

PLOT SCALE:

PLOT NAME:

REV. DATE: 7/98

ORIGINATOR: D2 - JAV

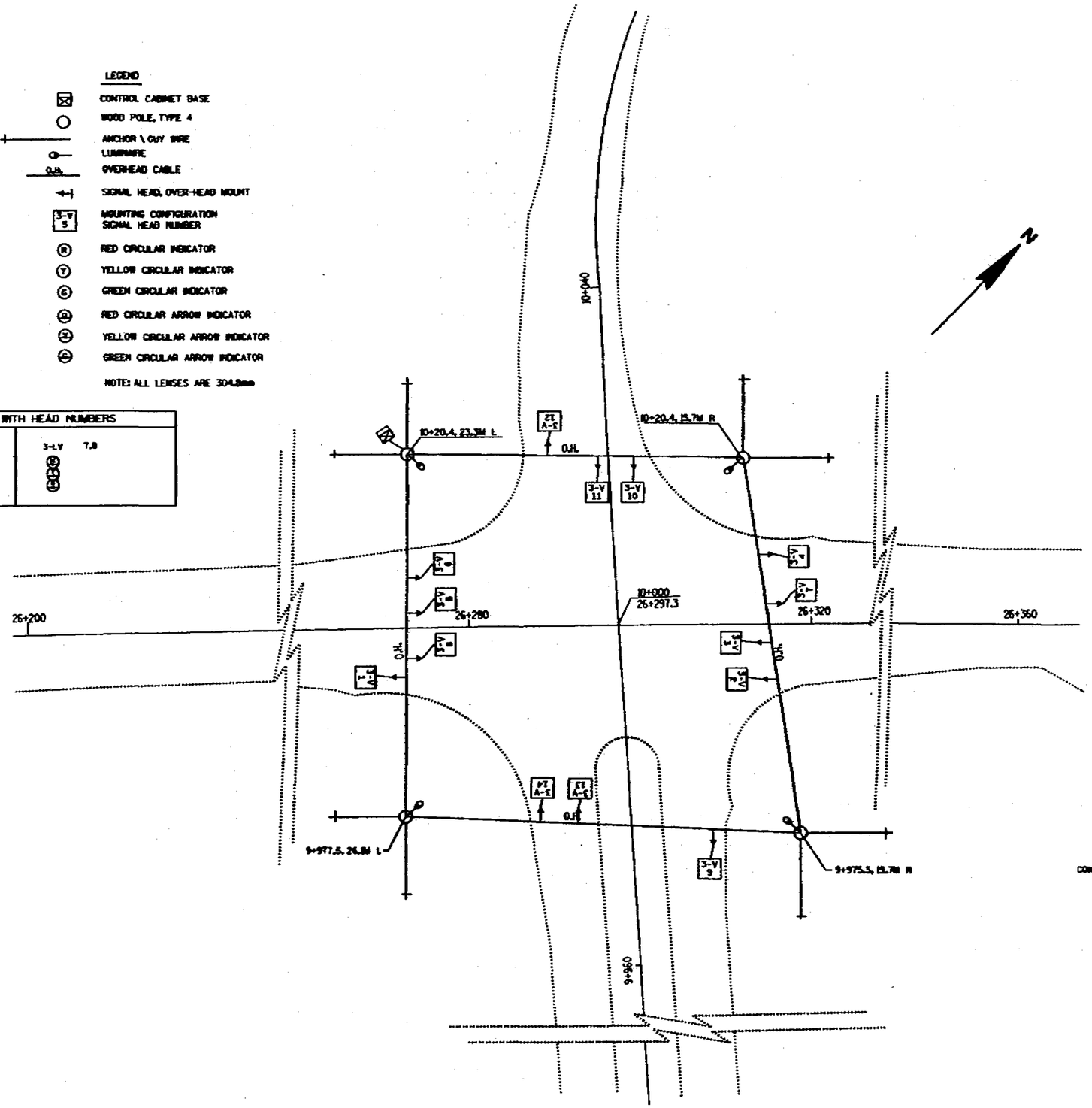
7/14

LEGEND

- CONTROL CABINET BASE
- WOOD POLE, TYPE 4
- ANCHOR \ GUY WIRE
- LUMINAIRE
- O.H. — OVERHEAD CABLE
- SIGNAL HEAD, OVER-HEAD MOUNT
- 3-V / 5 — MOUNTING CONFIGURATION / SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED CIRCULAR ARROW INDICATOR
- (Y) YELLOW CIRCULAR ARROW INDICATOR
- (G) GREEN CIRCULAR ARROW INDICATOR

NOTE: ALL LENSES ARE 304.8mm

CONFIGURATION WITH HEAD NUMBERS			
3-V (R) (Y) (G)	1,2,3, 4,5,6 9,10,11 12,13,14	3-LV (R) (Y) (G)	7,8



CONSTRUCTION NOTES:

(1) SET TYPE 4 WOOD POLES AT LOCATIONS SHOWN ON TEMPORARY SIGNAL PLAN.

(2) BOTTOM OF TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE 5.18M MIN. - 5.49M MAX AS PER SPECS ABOVE EXISTING CENTER LINE OF ROADWAY. SEE SP.MI WIRE TEMPORARY TRAFFIC SIGNAL DETAIL.

(3) THE CONTRACTOR WILL FURNISH THE TEMPORARY TRAFFIC SIGNAL CONTROLLER & WILL MAINTAIN THE SIGNALS. THE STATE WILL PROVIDE THE TIMING FOR THE TEMPORARY TRAFFIC SIGNALS.

(3) THE CONTRACTOR WILL FURNISH ALL MATERIALS FOR THE TEMPORARY TRAFFIC SIGNALS, WHICH WILL INCLUDE 4-TYPE 4 WOODEN POLES, 8-ANCHORS, TRAFFIC SIGNAL CABLE, 13-SIGNAL HEADS & 4-LUMINAIRES. ALL SIGNALS WILL BE HUNG OVERHEAD.

TEMPORARY SIGNAL PLAN	SCALE: 1:250	HWY: STH 151 & CTH VVV	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-00	SHEET NO: 2.67	M

FILE NAME: d2_si_1420070014720L.dgn

WisDOT: MSHT20

PLOT SCALE:

PLOT NAME:

REV. DATE: 7/98

8/14

ORIGINATOR: D2 - JAV

SEQUENCE OF OPERATION
TEMPORARY TRAFFIC SIGNAL

INTERVAL	USH 151 EB	USH 151 WB	CTH VVV NB	CTH VVV SB	SECONDS
1	R	G,G<-	R	R	8.0
2	R	G,Y<-	R	R	3.5
3	G	G	R	R	16.0
4	G	G	R	R	10.0
5	Y	Y	R	R	4.5
6	R	R	R	R	1.7
7	R	R	G	G	10.0
8	R	R	G	G	2.0
9	R	R	Y	Y	4.5
10	R	R	R	R	1.1
EMERGENCY FLASH					
INDICATION	R	R	R	R	

NOTES:

INTERVAL TIMES MAY NEED TO BE ADJUSTED PERIODICALLY DURING THE CONSTRUCTION PROJECT DUE TO FLUCTUATIONS IN TRAFFIC VOLUMES. WISDOT WILL PROVIDE ADJUSTED INTERVAL TIMES TO THE CONTRACTOR. CONTRACTOR WILL INPUT NEW INTERVAL TIMES INTO CONTROLLER.

GENERAL NOTES:

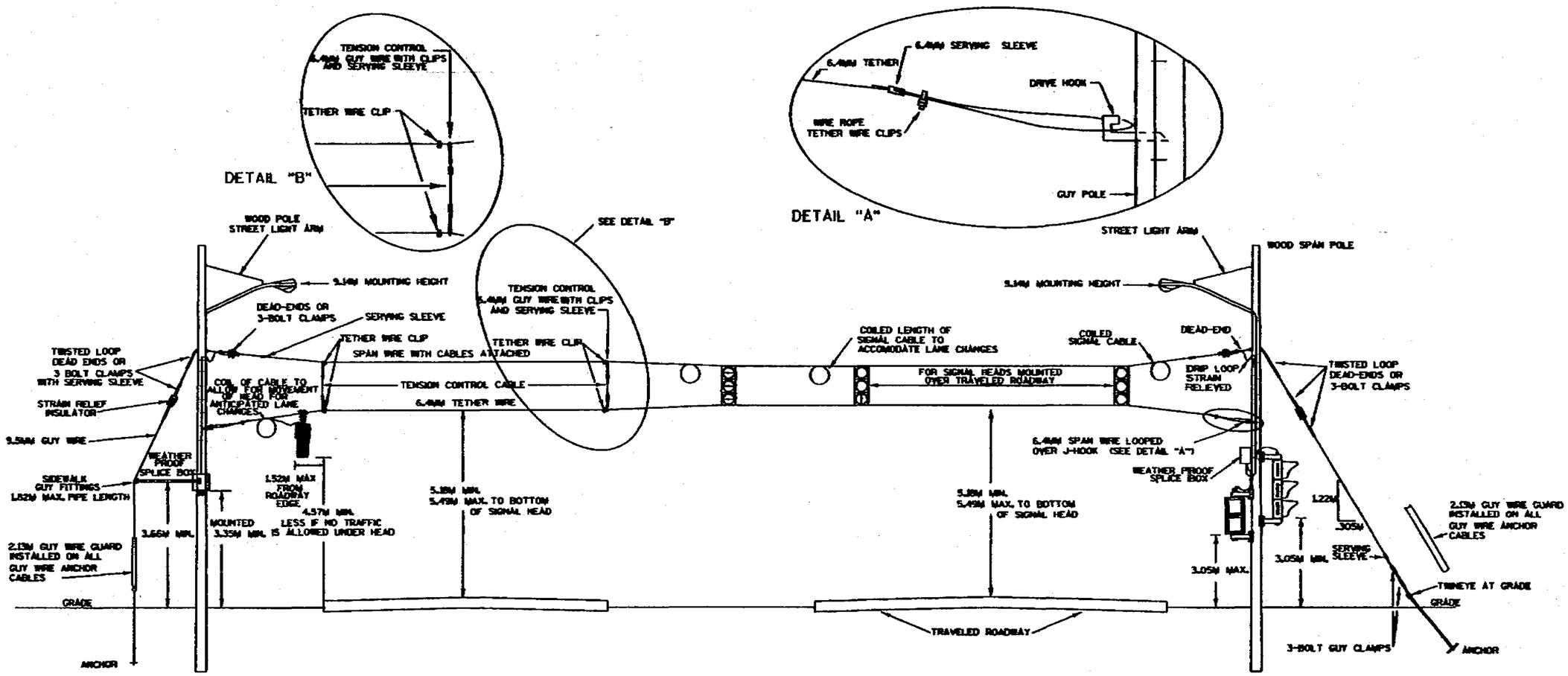
1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR:
FILE NAME:

STATE PROJECT NO: 1420-07-70	SCALE: 1:NA	HWY: STH 151	COUNTY: FOND DU LAC	SEQUENCE OF OPERATION TEMPORARY SIGNALS	SHEET NO: 2.68	M

WisDOT: MSHT20

R 1-15-99



MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
7.62 M	IV	1.52 M
9.14 M	IV	1.83 M
10.67 M	III	2.13 M
12.19 M	III	2.44 M
13.72 M	III	2.74 M

SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

NOTES:

1. WOOD POLE LENGTH AND CLASS SHALL BE DETERMINED BY THE SIGNAL PLAN.
2. SIGNAL HEADS:
   A. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF THROUGH LANE.
   B. NEAR RIGHT SIGNAL HEAD SUSPENDED ON THE TETHER MAY BE LOWER THAN 4.57M IF BEYOND TRAVELED ROADWAY.
3. SPAN WIRE:
   A. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   B. THE TETHER WIRE SHALL HAVE A 4.88M MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL HEADS IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

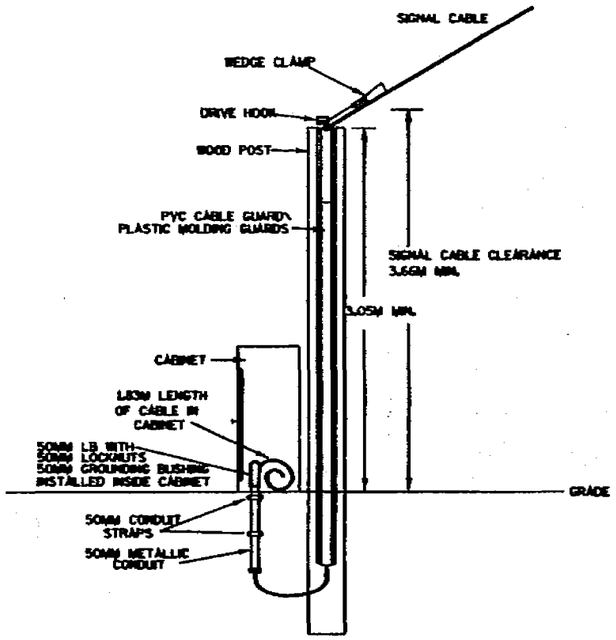
TEMPORARY TRAFFIC SIGNAL DETAIL	SCALE: 1:NTS	HWY: LAYTON	COUNTY: MILWAUKEE	STATE PROJECT NO: 1100-03-75	SHEET NO: 2.69

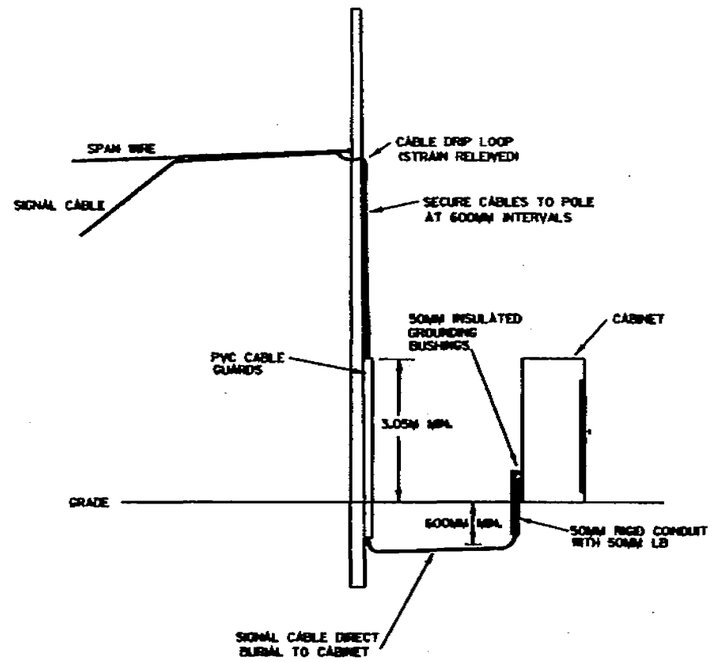
FILE NAME: D3 SIGNALS DYNATEMPSIGN

WisDOT: MSH120

PLOT SCALE:
PLOT NAME:
REV. DATE: 9/97
ORIGINATOR: A.R.MARTIN
LEVELS ON:

9/14





TEMPORARY TRAFFIC SIGNAL DETAIL	SCALE: 1: NTS	HWY: USH 151 & CTH VVV	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-00	SHEET NO: 2.70

FILE NAME: D3 SIGNALS DTMTEMPERD.DGN

WisDOT: MSHT20

PLOT SCALE:

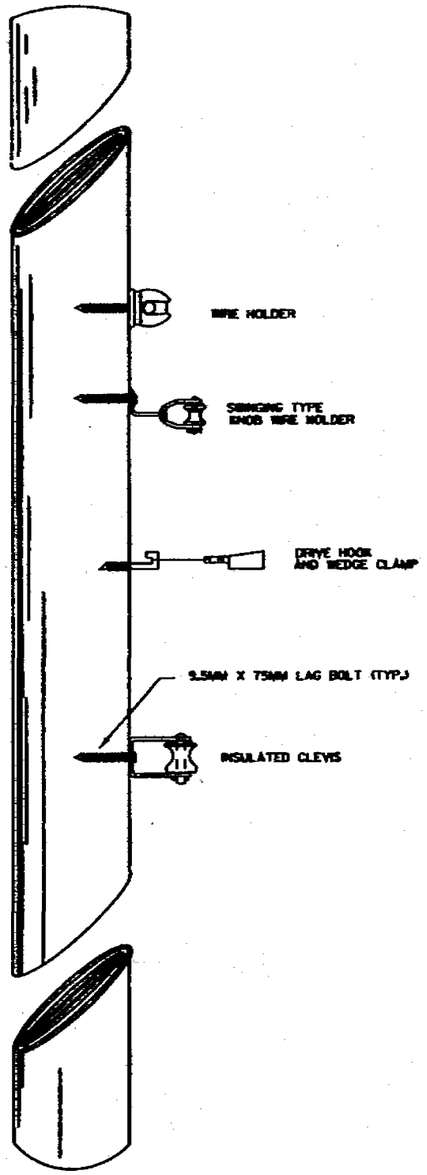
PLOT NAME:

REV. DATE: 9/97

ORIGINATOR: A.R.MARTIN

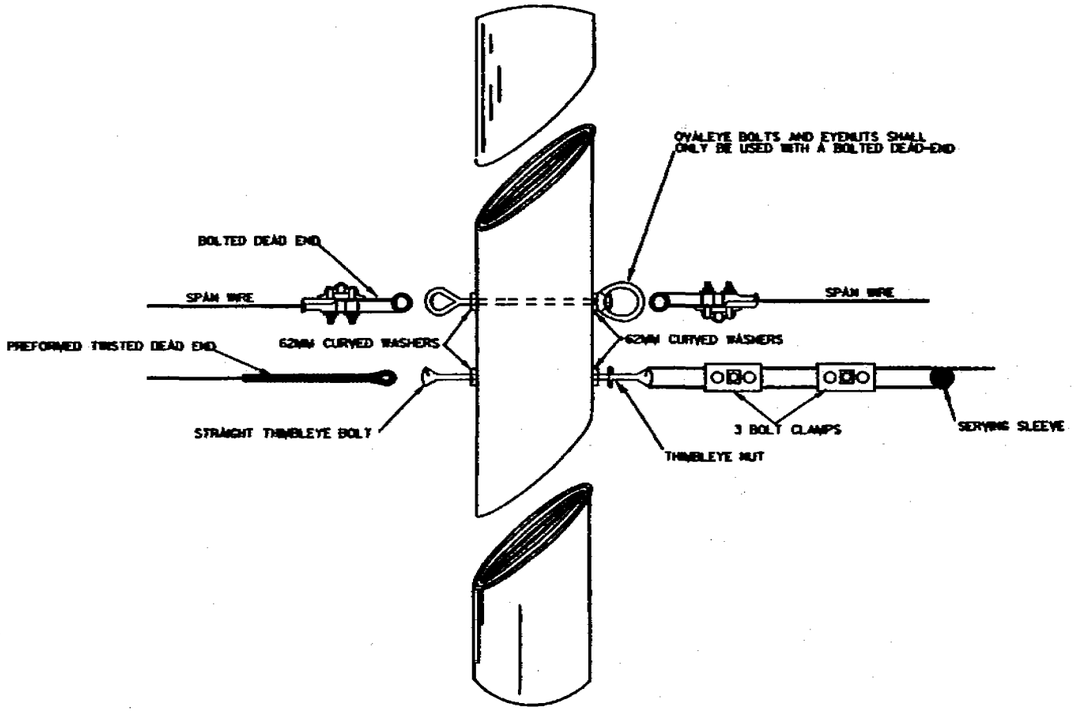
LEVELS ON: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

10/14



TYPICAL CABLE HANGERS

MEDIAN POLE
TYPICAL DEAD-ENDING



TEMPORARY TRAFFIC SIGNAL DETAIL	SCALE: 1:NTS	HWY: USH 151 & CTH VVV	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-00	SHEET NO: 2.71

FILE NAME: D2 SIGNALS DYSARTEMPER.DGN

WisDOT: MSHT20

PLOT SCALE:

PLOT NAME:

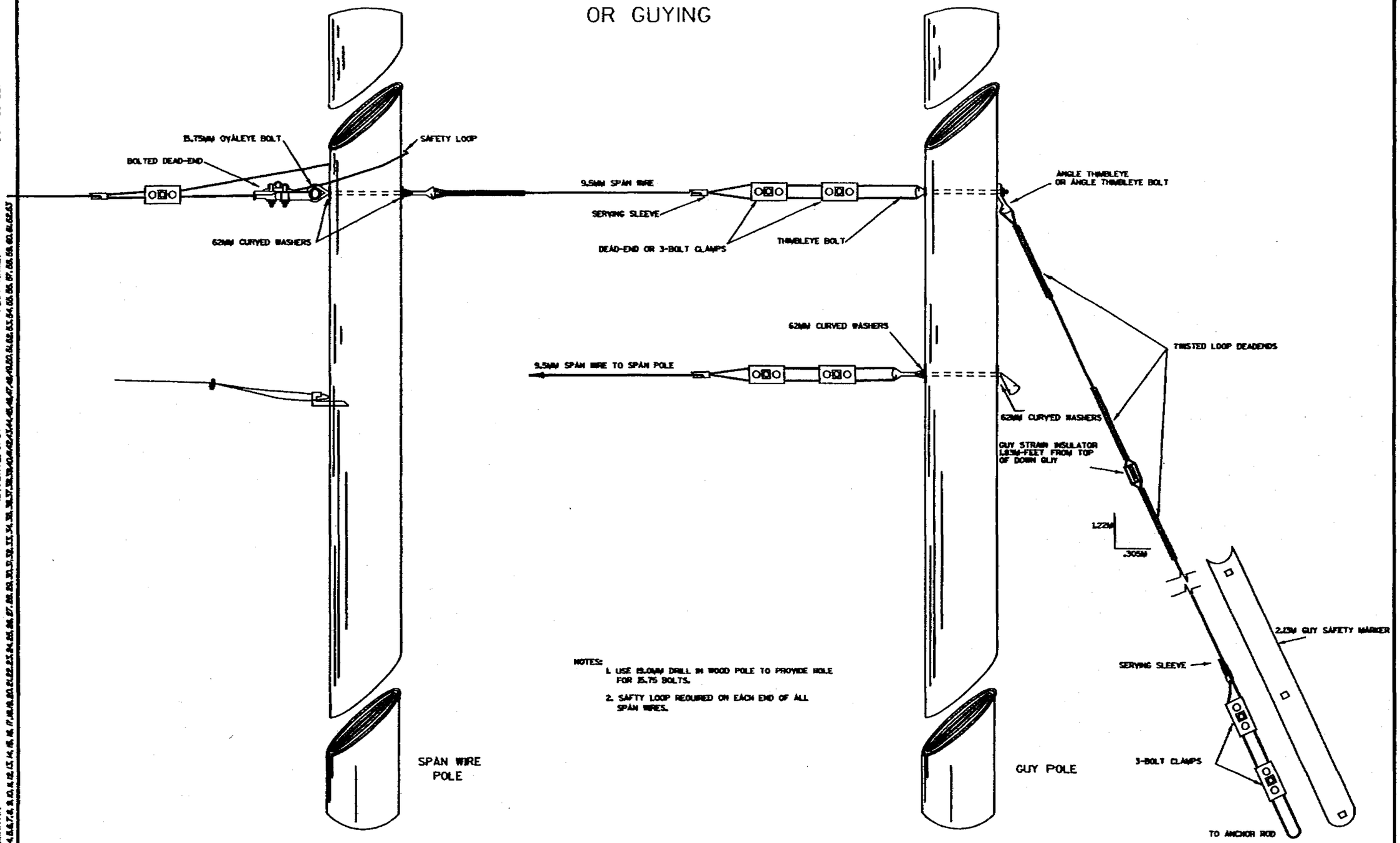
REV. DATE: 9/07

ORIGINATOR: A.R.MARTIN

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

11/14

TYPICAL DEAD-ENDINGS
OR GUYING



NOTES:

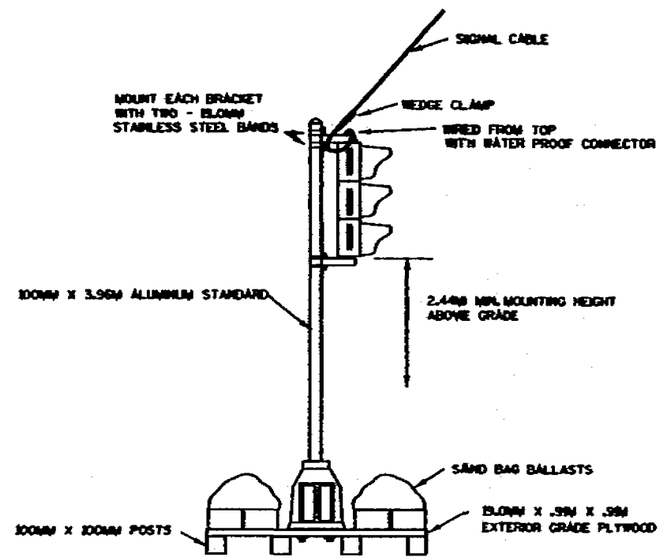
1. USE 19.0MM DRILL IN WOOD POLE TO PROVIDE HOLE FOR 15.75 BOLTS.
2. SAFTY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.

TEMPORARY TRAFFIC SIGNAL DETAIL	SCALE: 1:NTS	HWY: USH 151 & CTH VVV	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-00	SHEET NO: 2.72

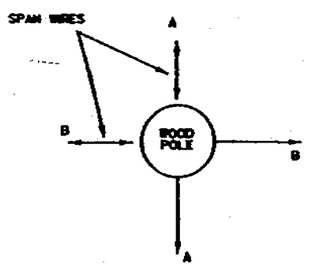
PLOT SCALE:
PLOT NAME:
REV. DATE: 9/97
ORIGINATOR: A.P.MARTIN
LEVELS ON -
FILE NAME: D2 SIGNALS DTMTEMP60.DGN
WINDOW: MSHT20

12/14

TYPICAL SKID TYPE TEMPORARY

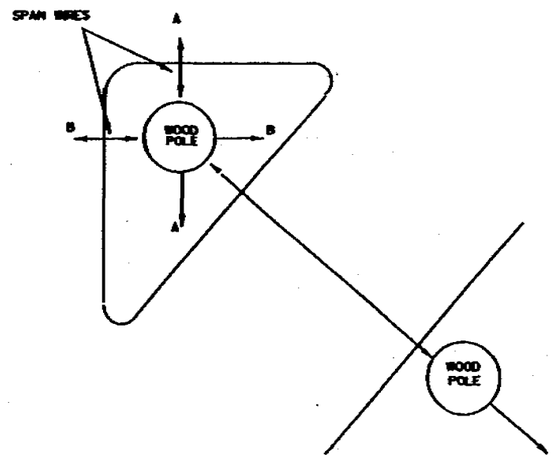


CORNER POLES

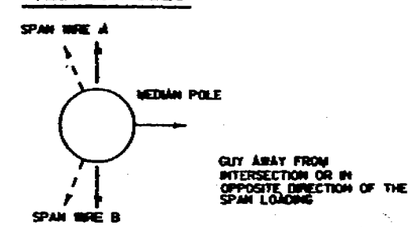


ALL DOWN OR SIDEWALK GUYS SHALL BE INSTALLED IN THE OPPOSITE DIRECTION OF THE STRAIN OF THE SPAN WIRE

ISLAND POLES



MEDIAN POLES



TEMPORARY TRAFFIC SIGNAL DETAIL	SCALE: 1:NTS	HWY: USH 151 & CTH VVV	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-00	SHEET NO: 2.73

FILE NAME: D2 SIGNALS DTRAFTEMPSIG.DGN

WisDOT: MSHT20

PLOT SCALE:

PLOT NAME:

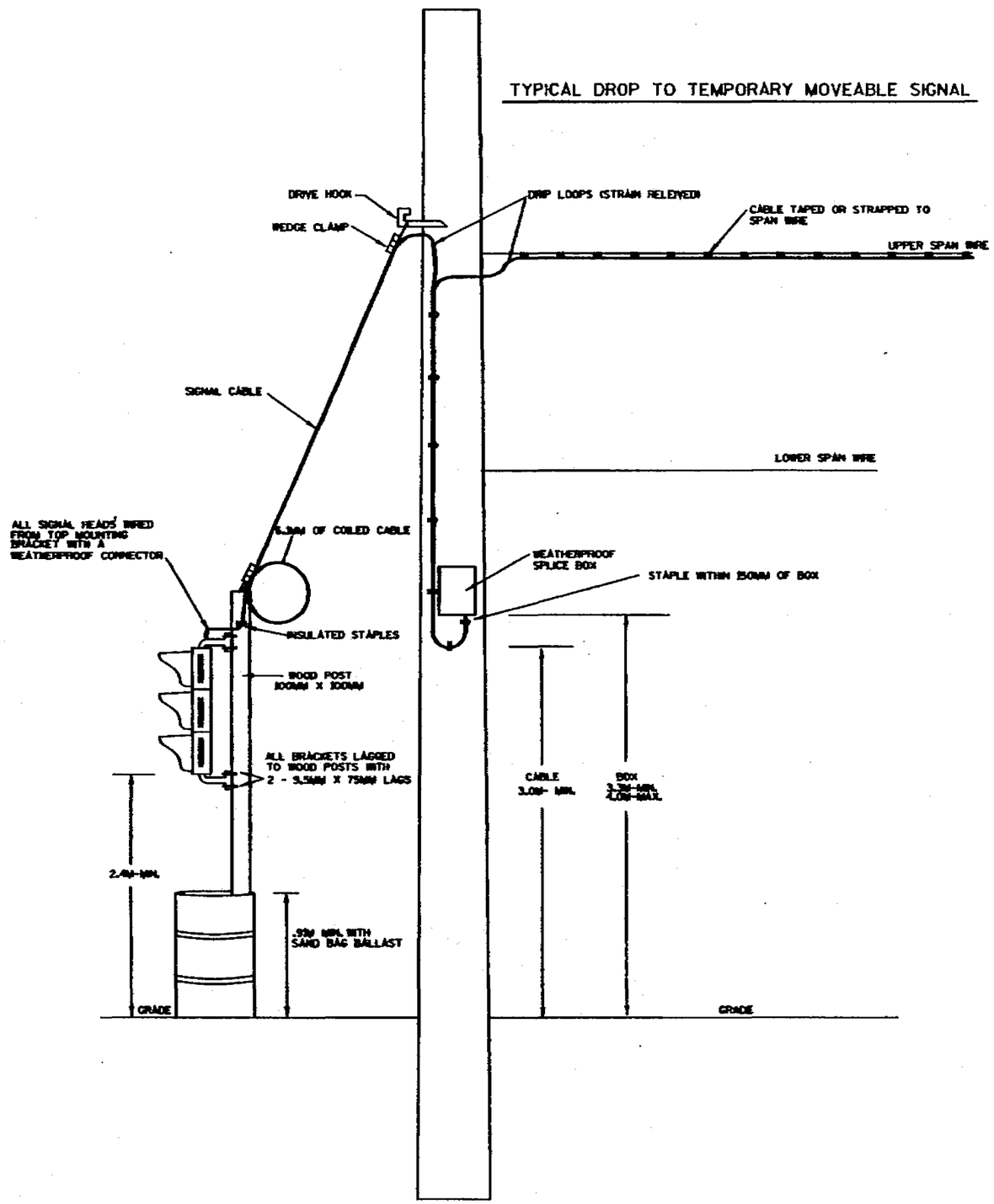
REV. DATE: 9/97

ORIGINATOR: A.R.MARTIN

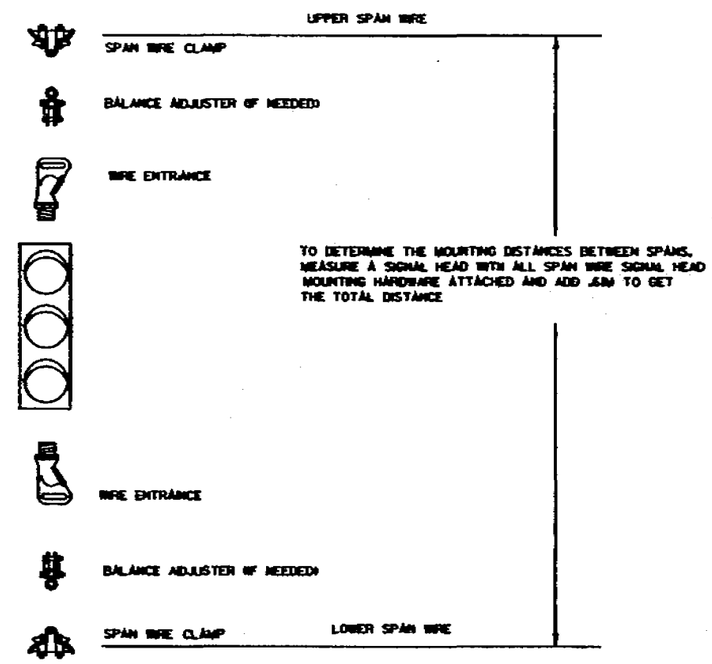
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

13/14

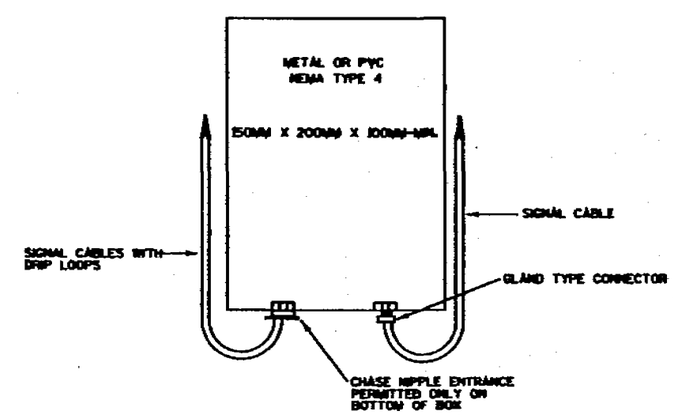
TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TYPICAL DOUBLE SPAN WIRE MOUNTING HARDWARE



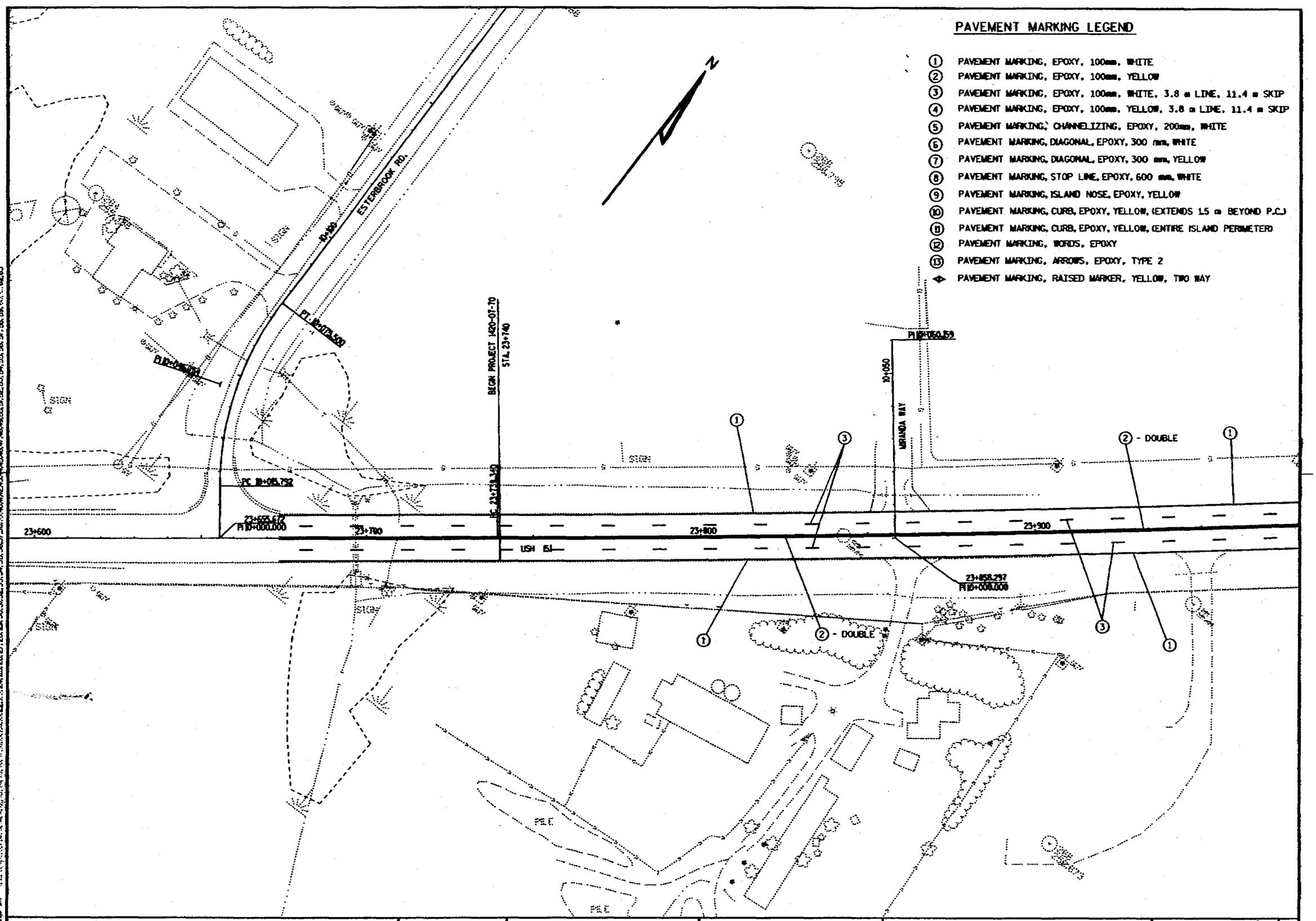
SPLICE BOX



TEMPORARY TRAFFIC SIGNAL DETAIL	SCALE: 1:NTS	HWY: USH 151 & CTH VVV	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-00	SHEET NO: 2.74

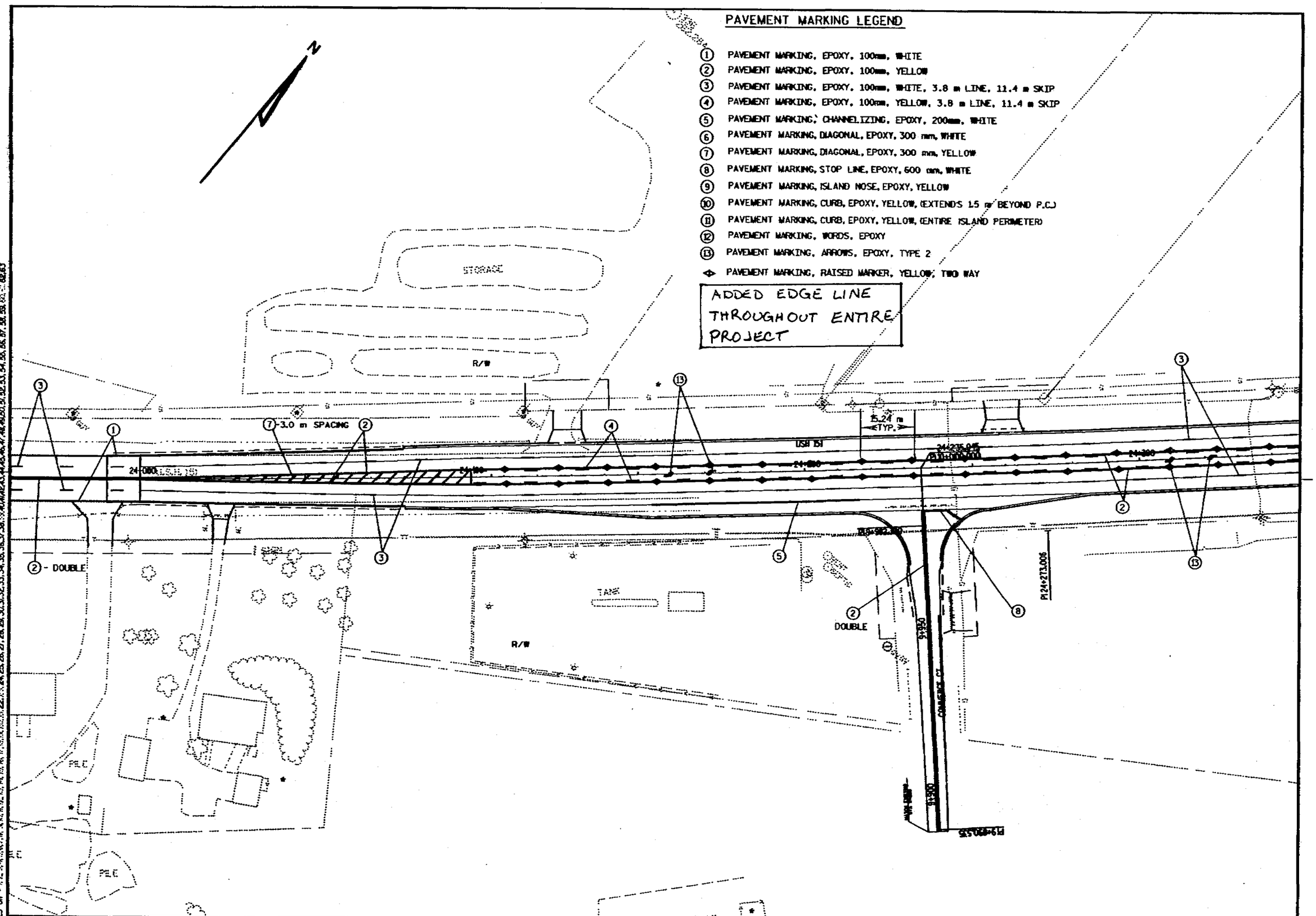
PLOT SCALE:
PLOT NAME:
REV. DATE: 9/07
ORIGINATOR: A.R. MARTIN
LEVELS ON -
FILE NAME: D:\SIGNALS\TMPTEMPBLOCK
WisDOT: MSH720

14/14



PAVEMENT MARKING PLAN	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.75	M

FILE NAME: D2 1420075SHP\MPS\SS\SS
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
ORIGINATOR: DISTRICT 2
REV. DATE: 12/31/98 PLOT SCALE: 1 PLOT DATE: 99...01:11:19:00:10...99



PAVEMENT MARKING PLAN | SCALE: 1:500 | HWY: USH 151 | COUNTY: FOND DU LAC | STATE PROJECT NO: 1420-07-70 | SHEET NO: 2.76 | M

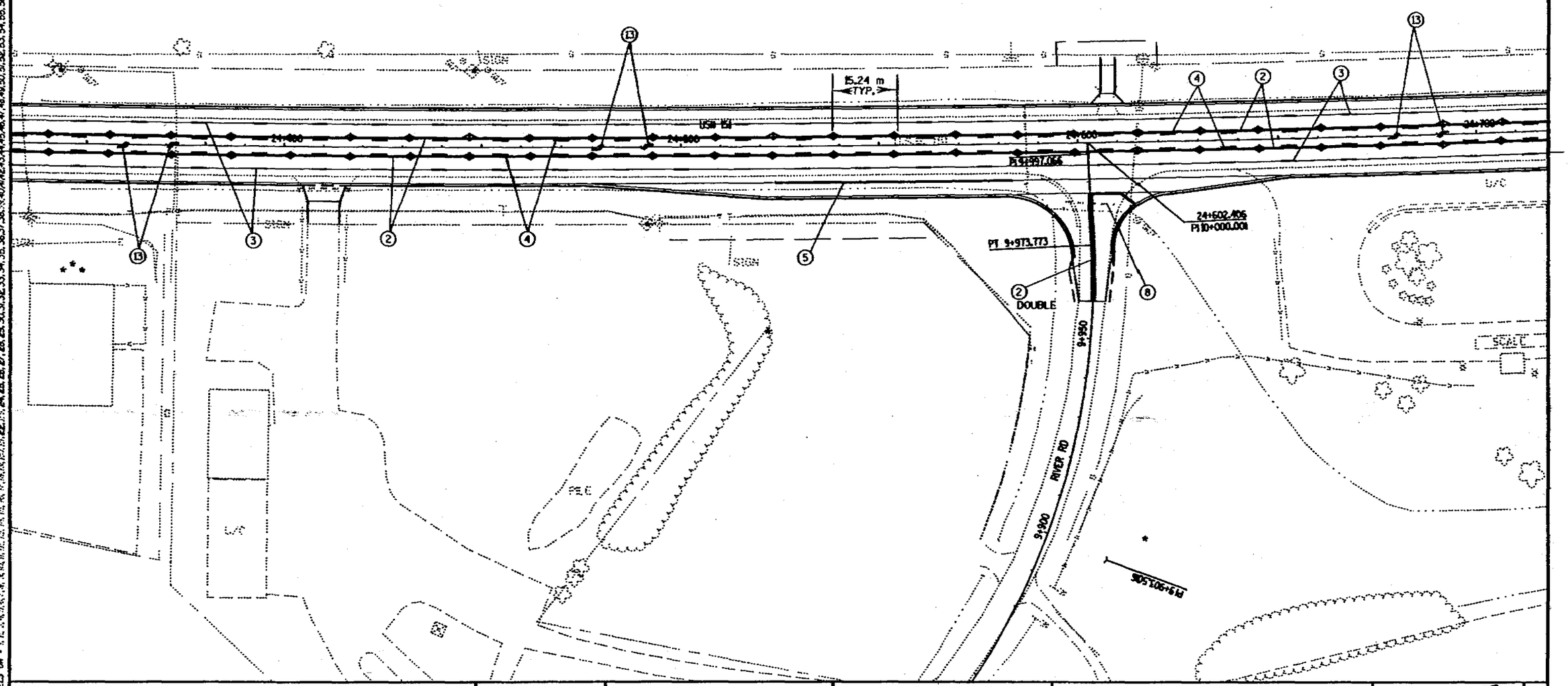
FILE NAME: D2 1420071MSPMB08.DGN ORIGINATOR: DISTRICT 2 PLOT SCALE: 1 REV. DATE: 12/21/98 PLOT DATE: 02/03

2/8

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING, EPOXY, 100mm, WHITE
2. PAVEMENT MARKING, EPOXY, 100mm, YELLOW
3. PAVEMENT MARKING, EPOXY, 100mm, WHITE, 3.8 m LINE, 11.4 m SKIP
4. PAVEMENT MARKING, EPOXY, 100mm, YELLOW, 3.8 m LINE, 11.4 m SKIP
5. PAVEMENT MARKING, CHANNELIZING, EPOXY, 200mm, WHITE
6. PAVEMENT MARKING, DIAGONAL, EPOXY, 300 mm, WHITE
7. PAVEMENT MARKING, DIAGONAL, EPOXY, 300 mm, YELLOW
8. PAVEMENT MARKING, STOP LINE, EPOXY, 600 mm, WHITE
9. PAVEMENT MARKING, ISLAND NOSE, EPOXY, YELLOW
10. PAVEMENT MARKING, CURB, EPOXY, YELLOW, (EXTENDS 1.5 m BEYOND P.C.)
11. PAVEMENT MARKING, CURB, EPOXY, YELLOW, (ENTIRE ISLAND PERIMETER)
12. PAVEMENT MARKING, WORDS, EPOXY
13. PAVEMENT MARKING, ARROWS, EPOXY, TYPE 2

◆ PAVEMENT MARKING, RAISED MARKER, YELLOW, TWO WAY



PAVEMENT MARKING PLAN	SCALE: 1:500	HWY: STH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 277	M

FILE NAME: D2 1420071SIPM500.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/17/98 PLOT SCALE: 1 PLOT DATE: 12/17/98

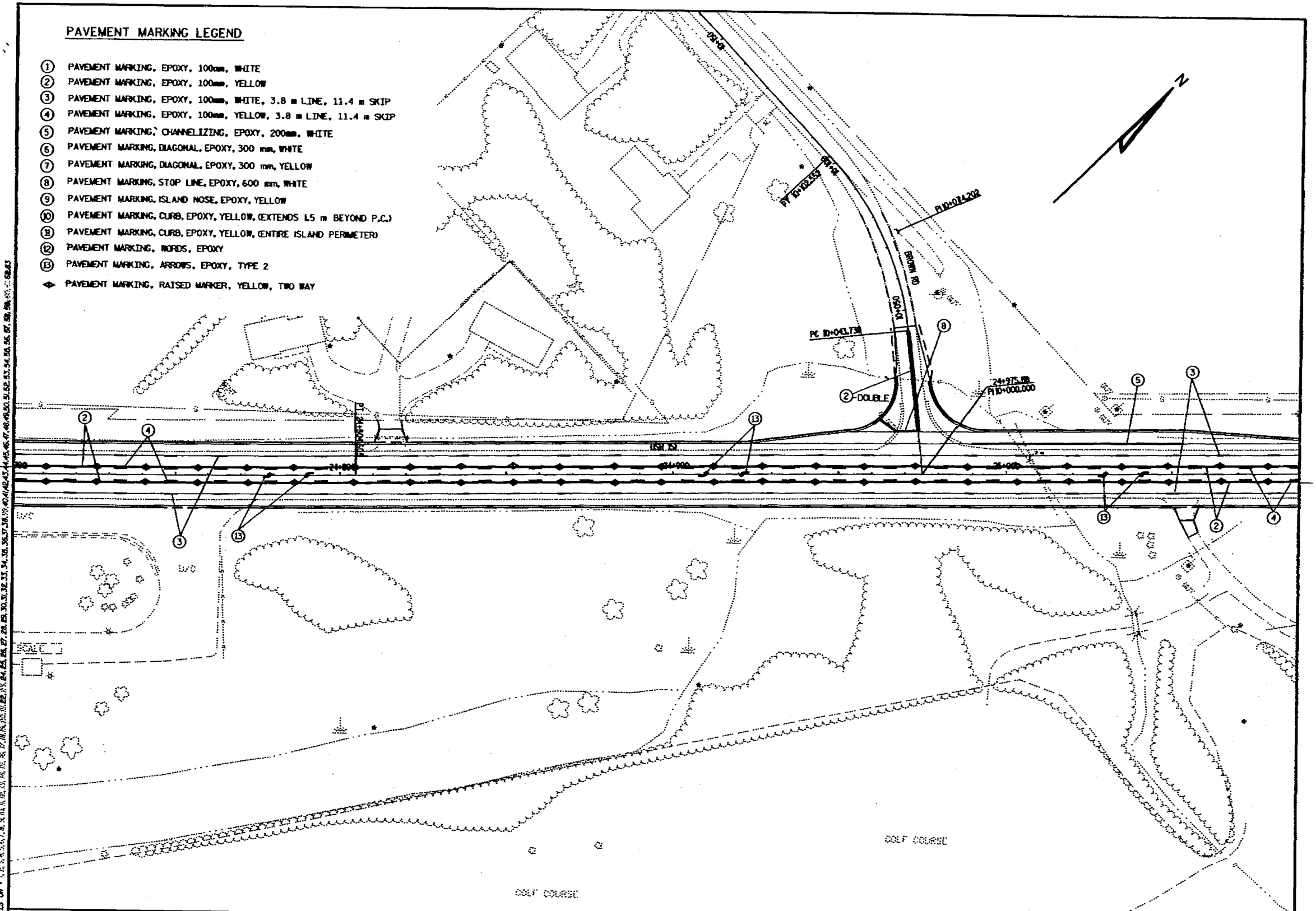
LEVELS ON: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

3/8

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING, EPOXY, 100mm, WHITE
2. PAVEMENT MARKING, EPOXY, 100mm, YELLOW
3. PAVEMENT MARKING, EPOXY, 100mm, WHITE, 3.8 m LINE, 11.4 m SKIP
4. PAVEMENT MARKING, EPOXY, 100mm, YELLOW, 3.8 m LINE, 11.4 m SKIP
5. PAVEMENT MARKING, CHANNELIZING, EPOXY, 200mm, WHITE
6. PAVEMENT MARKING, DIAGONAL, EPOXY, 300 mm, WHITE
7. PAVEMENT MARKING, DIAGONAL, EPOXY, 300 mm, YELLOW
8. PAVEMENT MARKING, STOP LINE, EPOXY, 600 mm, WHITE
9. PAVEMENT MARKING, ISLAND NOSE, EPOXY, YELLOW
10. PAVEMENT MARKING, CURB, EPOXY, YELLOW, (EXTENDS 1.5 m BEYOND P.C.)
11. PAVEMENT MARKING, CURB, EPOXY, YELLOW, (ENTIRE ISLAND PERIMETER)
12. PAVEMENT MARKING, WORDS, EPOXY
13. PAVEMENT MARKING, ARROWS, EPOXY, TYPE 2

◇ PAVEMENT MARKING, RAISED MARKER, YELLOW, TWO WAY



PAVEMENT MARKING PLAN	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.78	M

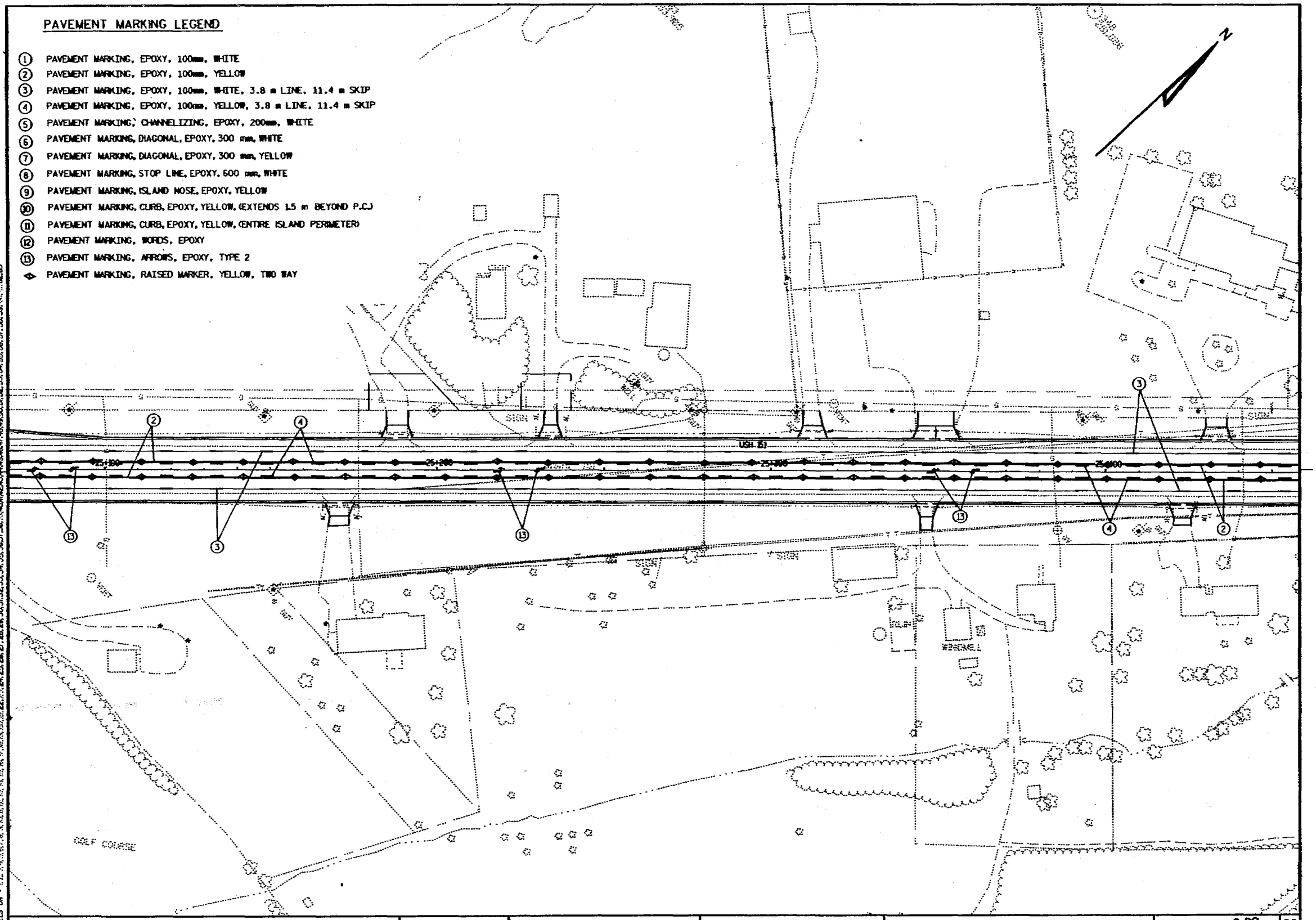
FILE NAME: D:\ 1420071B\PMB04.DGN ORIGINATOR: DISTRICT 2 PLOT SCALE: 1 PLOT DATE: 98/01/12 REV. DATE: 12/31/98

4/8

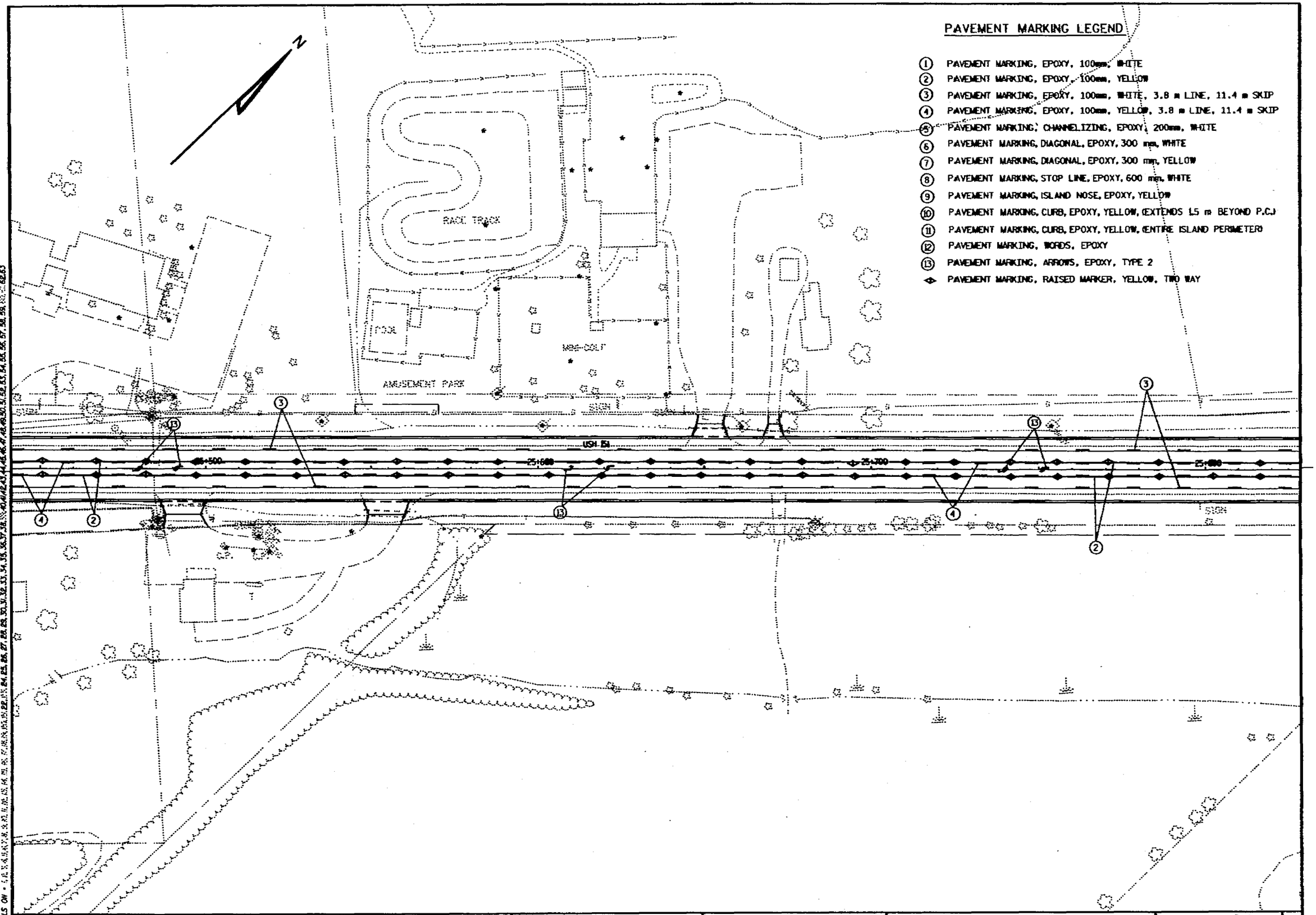
PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING, EPOXY, 100mm, WHITE
2. PAVEMENT MARKING, EPOXY, 100mm, YELLOW
3. PAVEMENT MARKING, EPOXY, 100mm, WHITE, 3.8 m LINE, 11.4 m SKIP
4. PAVEMENT MARKING, EPOXY, 100mm, YELLOW, 3.8 m LINE, 11.4 m SKIP
5. PAVEMENT MARKING, CHANNELIZING, EPOXY, 200mm, WHITE
6. PAVEMENT MARKING, DIAGONAL, EPOXY, 300 mm, WHITE
7. PAVEMENT MARKING, DIAGONAL, EPOXY, 300 mm, YELLOW
8. PAVEMENT MARKING, STOP LINE, EPOXY, 600 mm, WHITE
9. PAVEMENT MARKING, ISLAND NOSE, EPOXY, YELLOW
10. PAVEMENT MARKING, CURB, EPOXY, YELLOW, (EXTENDS 1.5 m BEYOND P.C.)
11. PAVEMENT MARKING, CURB, EPOXY, YELLOW, (ENTIRE ISLAND PERIMETER)
12. PAVEMENT MARKING, WORDS, EPOXY
13. PAVEMENT MARKING, ARROWS, EPOXY, TYPE 2

◇ PAVEMENT MARKING, RAISED MARKER, YELLOW, TWO WAY



PAVEMENT MARKING PLAN	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 279	M



PAVEMENT MARKING PLAN	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.80	M

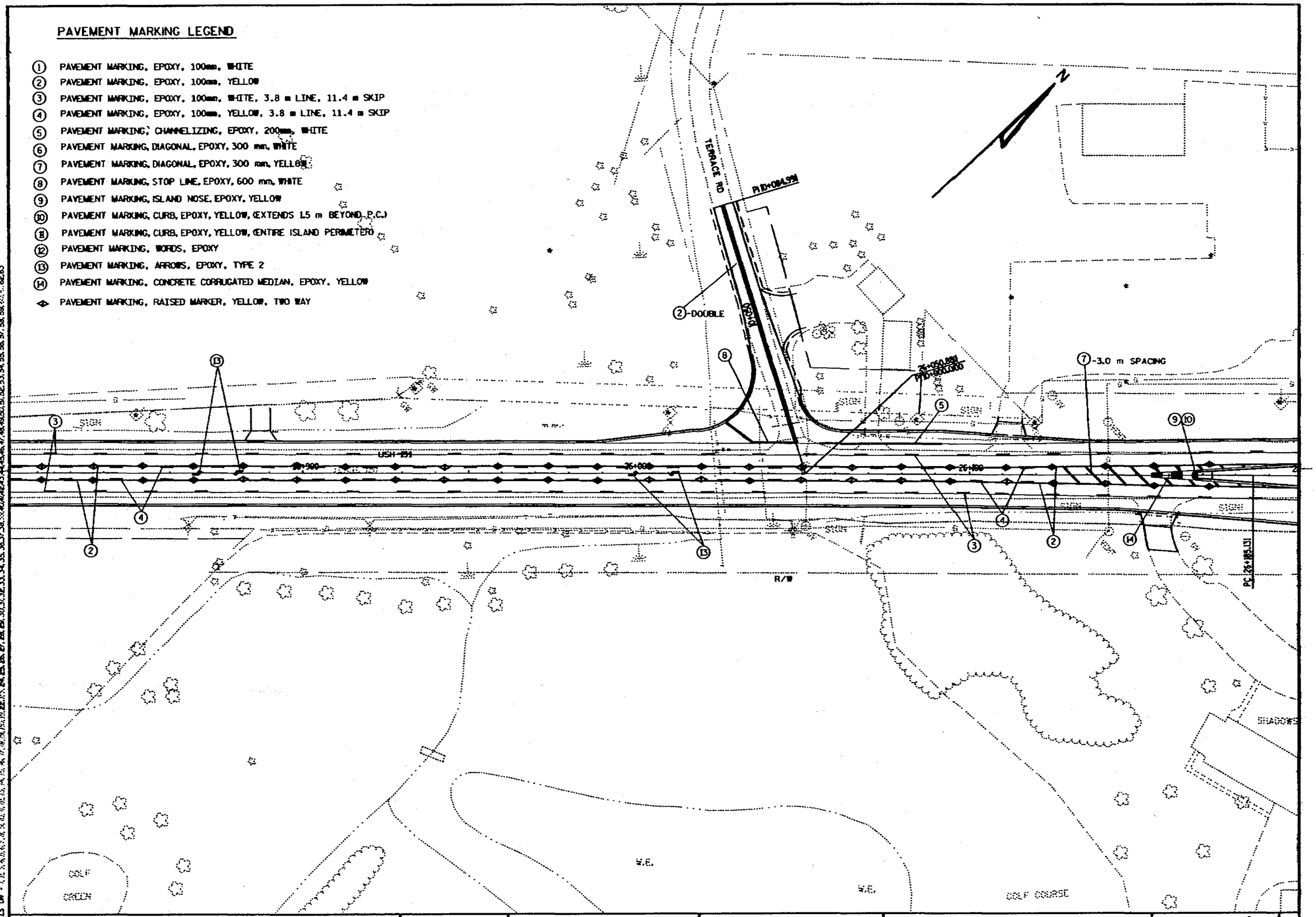
6/8

FILE NAME: D8 1420071SUPMS08.DGN ORIGINATOR: DISTRICT 8 REV. DATE: 10/21/98 PLOT SCALE: 00....plotscale....00 PLOT DATE: 00....plottingdate....00

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING, EPOXY, 100mm, WHITE
2. PAVEMENT MARKING, EPOXY, 100mm, YELLOW
3. PAVEMENT MARKING, EPOXY, 100mm, WHITE, 3.8 m LINE, 11.4 m SKIP
4. PAVEMENT MARKING, EPOXY, 100mm, YELLOW, 3.8 m LINE, 11.4 m SKIP
5. PAVEMENT MARKING, CHANNELIZING, EPOXY, 200mm, WHITE
6. PAVEMENT MARKING, DIAGONAL, EPOXY, 300 mm, WHITE
7. PAVEMENT MARKING, DIAGONAL, EPOXY, 300 mm, YELLOW
8. PAVEMENT MARKING, STOP LINE, EPOXY, 600 mm, WHITE
9. PAVEMENT MARKING, ISLAND NOSE, EPOXY, YELLOW
10. PAVEMENT MARKING, CURB, EPOXY, YELLOW, (EXTENDS 1.5 m BEYOND P.C.)
11. PAVEMENT MARKING, CURB, EPOXY, YELLOW, (ENTIRE ISLAND PERIMETER)
12. PAVEMENT MARKING, WORDS, EPOXY
13. PAVEMENT MARKING, ARROWS, EPOXY, TYPE 2
14. PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, EPOXY, YELLOW

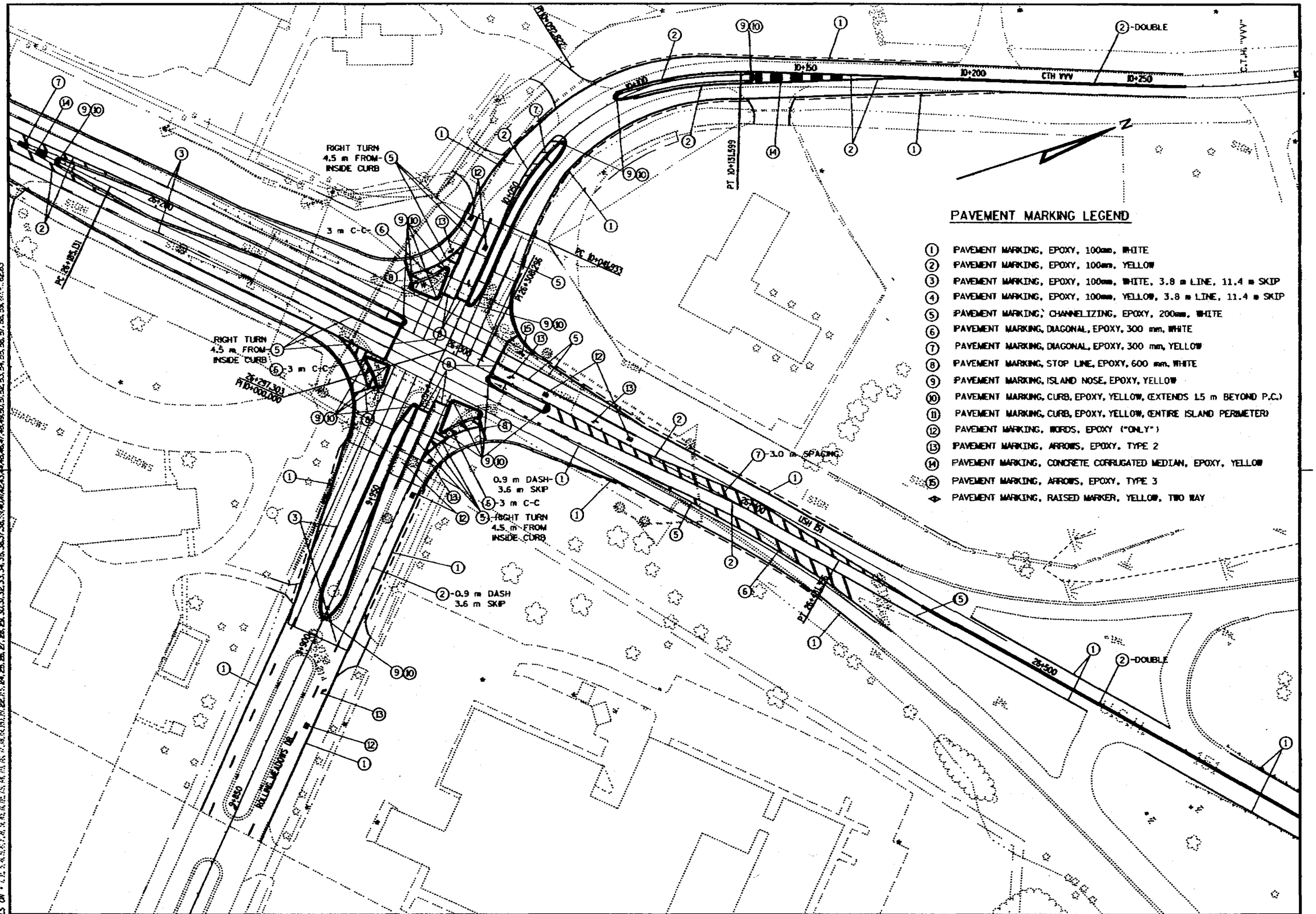
◇ PAVEMENT MARKING, RAISED MARKER, YELLOW, TWO WAY



PAVEMENT MARKING PLAN	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.81	M

FILE NAME: D2 1420071SSPMS07.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/17/98 PLOT SCALE : 99....plotscale....99 PLOT DATE: 99...plotting date...99

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



PAVEMENT MARKING PLAN	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.82	M

FILE NAME: D2 1420070SUPMS08.DGN ORIGINATOR: DISTRICT 2 REV. DATE: PLOT SCALE: PLOT DATE:
LEVELS ON

8/8

STAGE 1

WORK ZONE: TEMPORARY ASPHALTIC PAVEMENT WIDENING

LEGEND

- TRAFFIC CONTROL DRUM WITH TYPE "C" LIGHT
- TRAFFIC CONTROL DRUM
- SIGN ON FIXED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- ARROW BOARD
- WARNING LIGHT, TYPE A (FLASHING)
- TYPE III BARRICADE

N

USH 151

ROLLING MEADOWS

REMOVE CURB & GUTTER AND CONSTRUCT TEMP. ASPHL PAV'T. WORK TO BE COMPLETED PRIOR TO TEMP. PAVEMENT WIDENING.

END ROAD WORK
G20-2A
1050 mm x 600 mm

END ROAD WORK
G20-2A
1050 mm x 600 mm

RIGHT SHOULDER CLOSED 500 FT
W20-5(500)

RIGHT SHOULDER CLOSED 1000 FT
W20-5(1000)

RIGHT SHOULDER CLOSED 500 FT
W20-5(500)

ROAD WORK AHEAD
W20-1

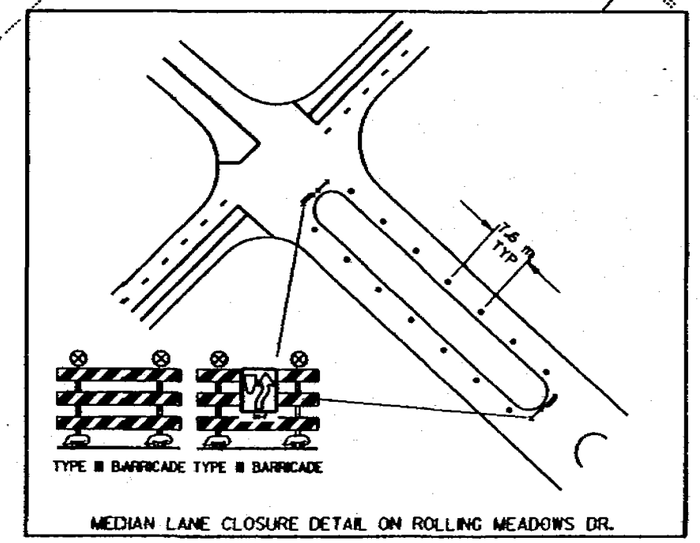
RIGHT LANE CLOSED 500 FT
W20-5

RIGHT LANE CLOSED AHEAD
W20-5

ROAD WORK AHEAD
W20-1

W04-2R

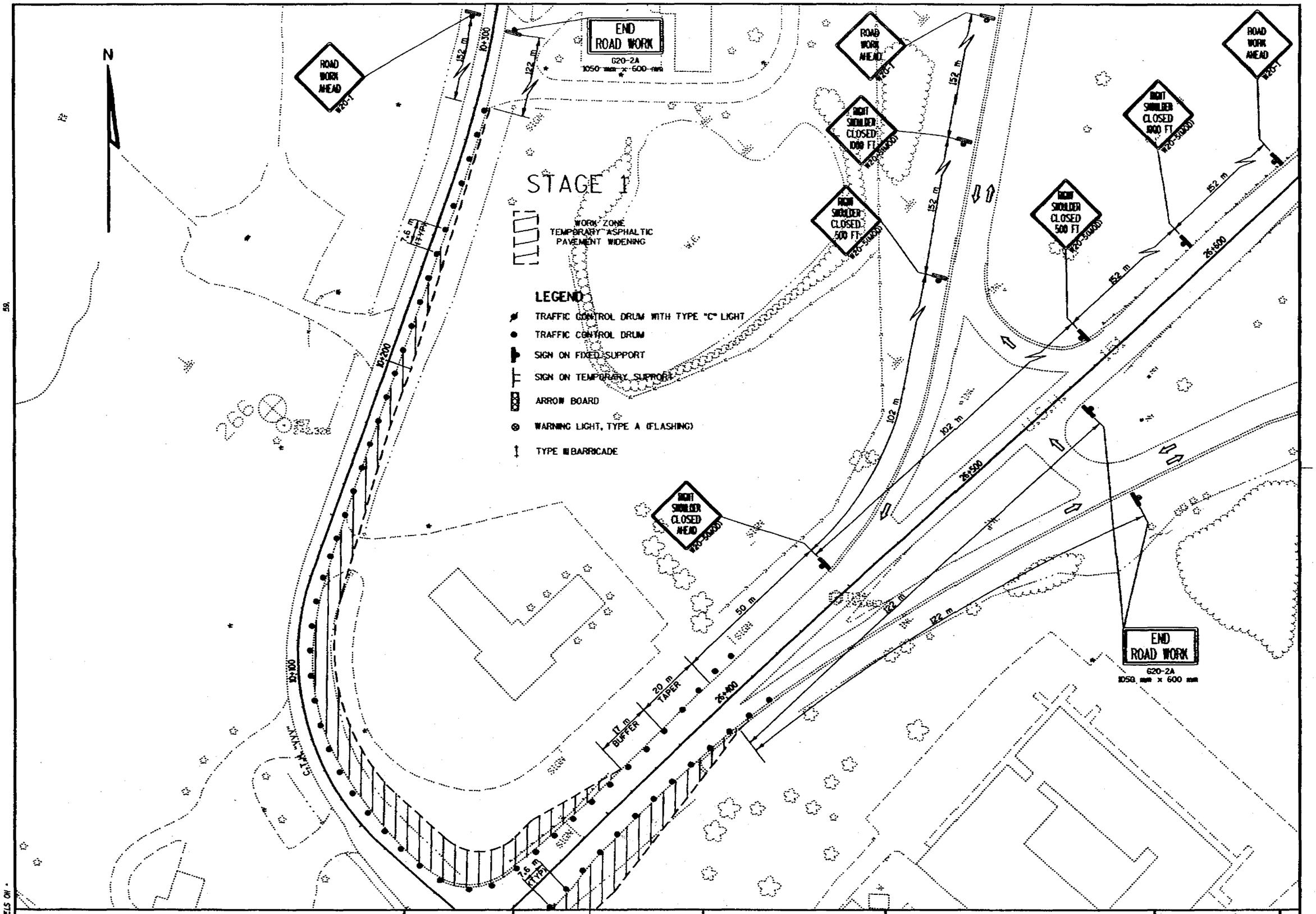
17 m BUFFER
13 m TAPER
152 m
152 m
152 m
122 m
90 m TAPER
17 m BUFFER
90 m
300 m
300 m
7.6 m (TYP)
3.6 m
3.3 m
26+300
26+250
26+200
26+150
26+100
26+050
26+000
25+950
25+900
25+850
25+800
25+750
25+700
25+650
25+600
25+550
25+500
25+450
25+400
25+350
25+300
25+250
25+200
25+150
25+100
25+050
25+000
GOLF COURSE



MEDIAN LANE CLOSURE DETAIL ON ROLLING MEADOWS DR.

TRAFFIC CONTROL - STAGE 1 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.03	M

REV. DATE: 12/18/98 PLOT SCALE: 60:1 PLOT DATE: 98:01:19 09:07:00
ORIGINATOR: DISTRICT 2
FILE NAME: D:\1420070\STC01.DGN
LEVELS ON



TRAFFIC CONTROL - STAGE 1 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.84	M

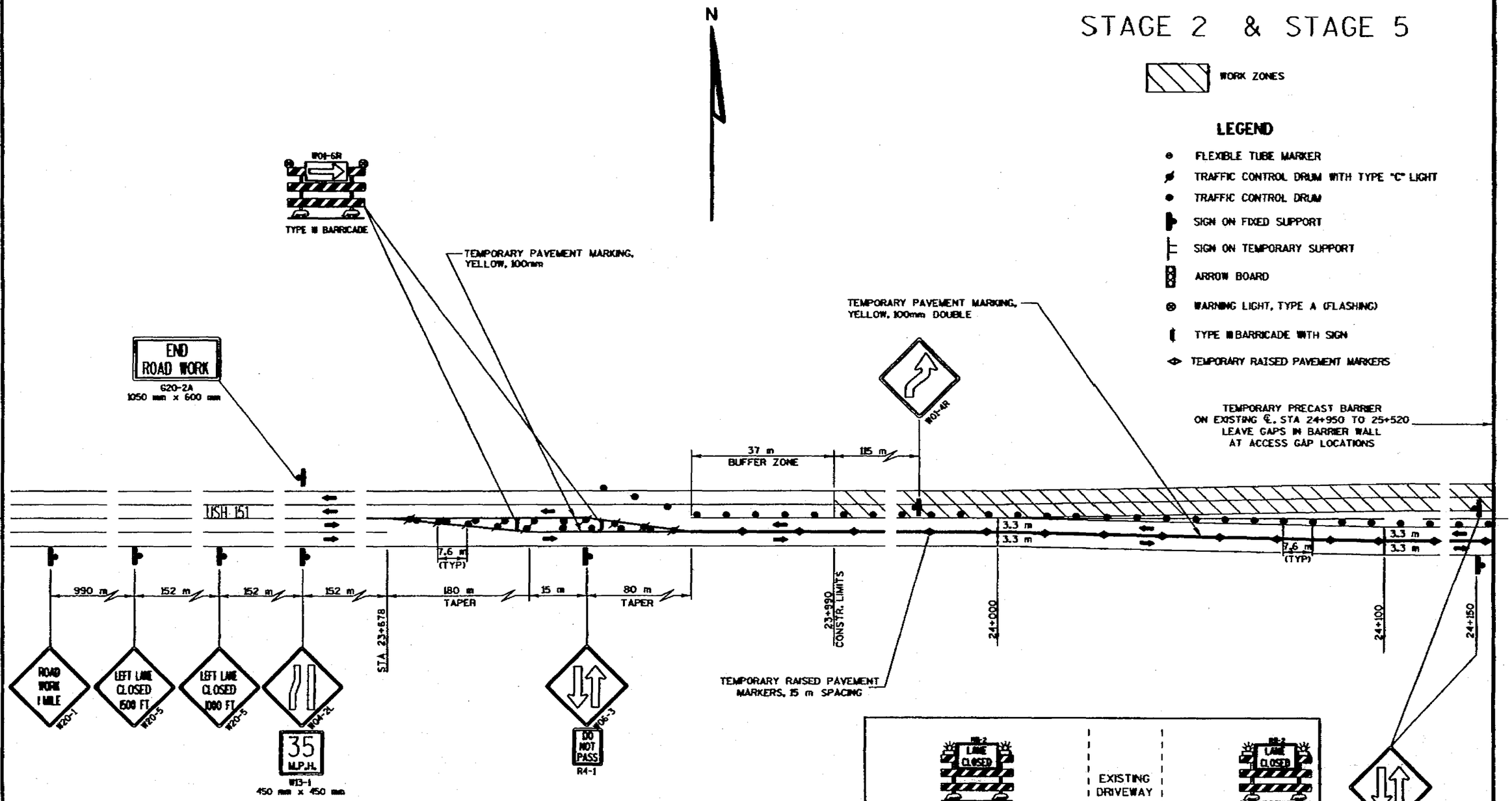
FILE NAME: D2 1420071SHT0501A.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/18/98 PLOT SCALE: 1 PLOT DATE: LEVELS ON

STAGE 2 & STAGE 5

WORK ZONES

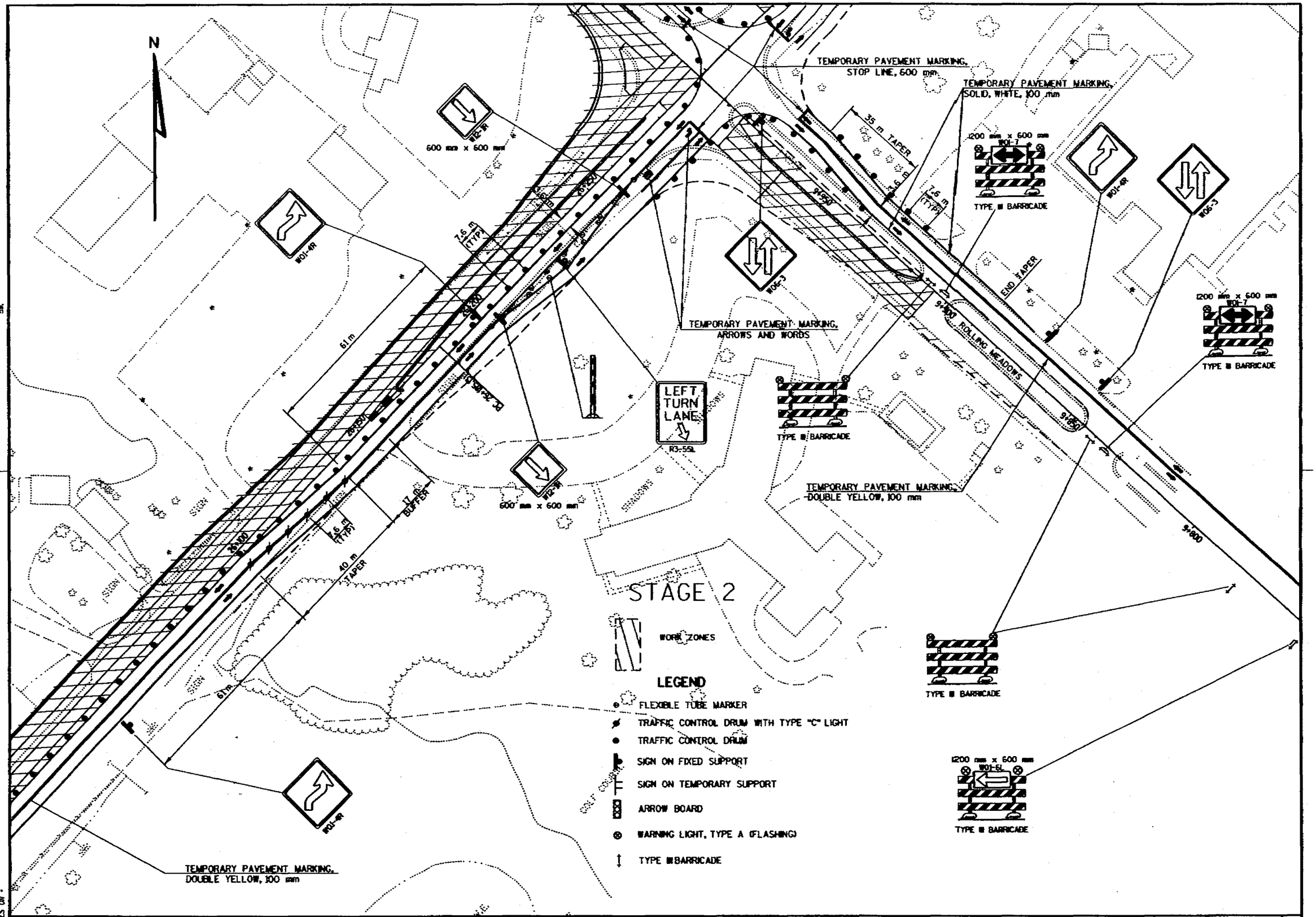
LEGEND

- FLEXIBLE TUBE MARKER
- TRAFFIC CONTROL DRUM WITH TYPE "C" LIGHT
- TRAFFIC CONTROL DRUM
- SIGN ON FIXED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- ARROW BOARD
- WARNING LIGHT, TYPE A (FLASHING)
- TYPE III BARRICADE WITH SIGN
- TEMPORARY RAISED PAVEMENT MARKERS



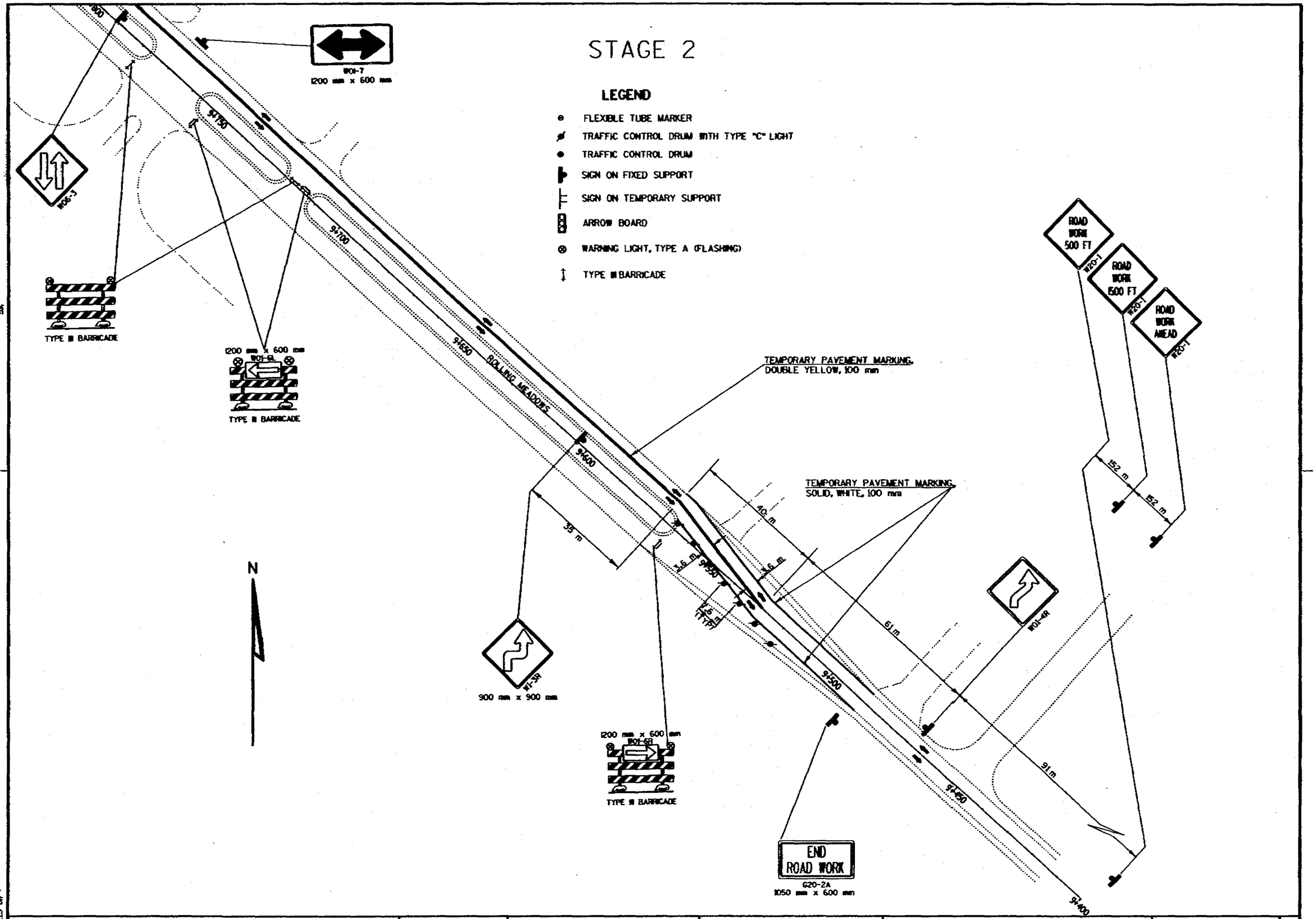
TRAFFIC CONTROL - STAGE 2&5 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.85	M

FILE NAME: D:\1420071SUT2SG28.DGN PLOT SCALE: 1 REV. DATE: 12/21/98 ORIGINATOR: DISTRICT 2 PLOT DATE: LEVELS ON



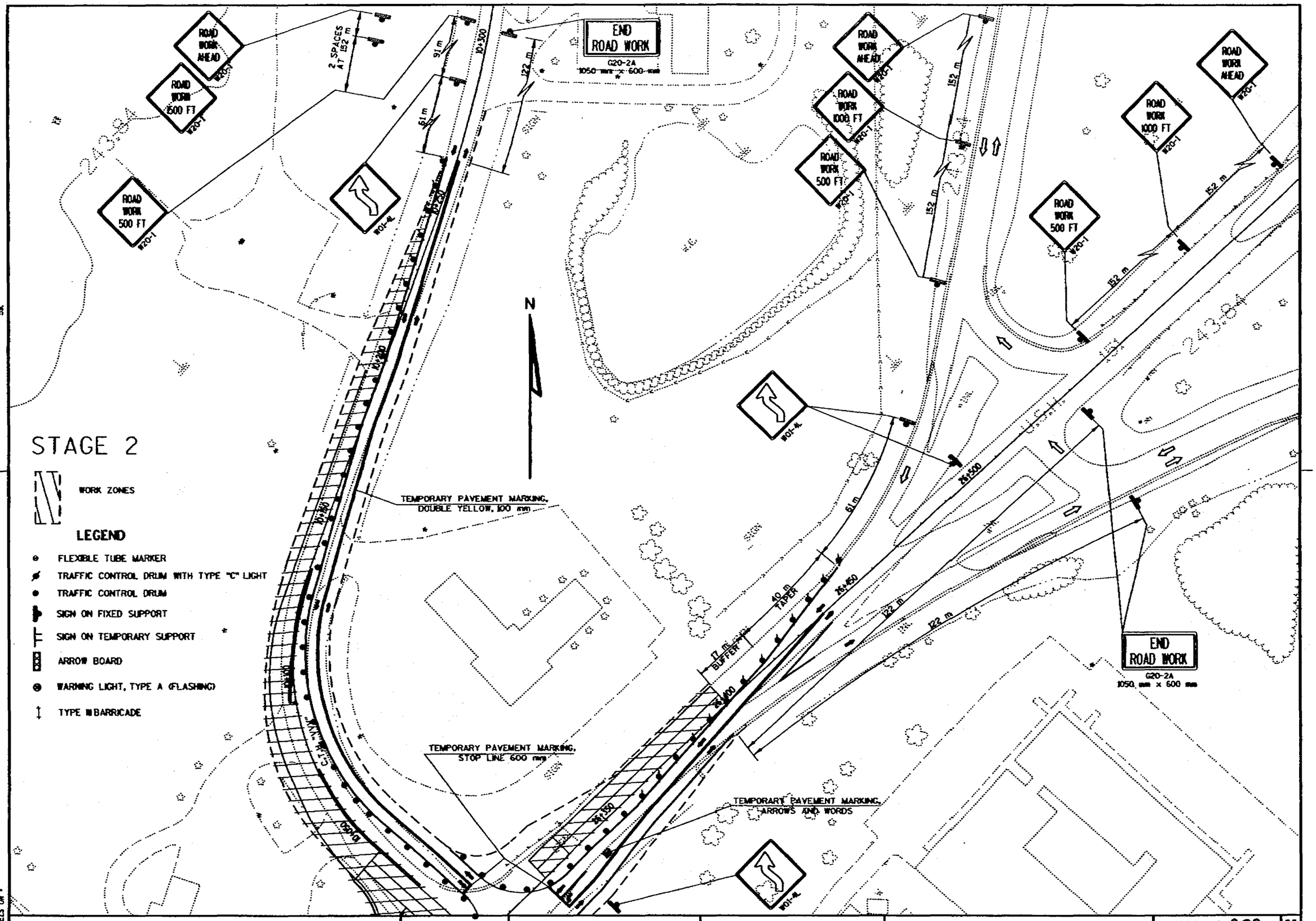
TRAFFIC CONTROL - STAGE 2 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.86	M

FILE NAME: D:\ 1420071B3\TC502.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/12/98 PLOT SCALE: 1 PLOT DATE: LEVELS ON:



TRAFFIC CONTROL - STAGE 2 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 287	M

FILE NAME: D2 1420073S:TCS02X.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/19/98 PLOT SCALE: 1 PLOT DATE: 98/01/16 LEVELS ON



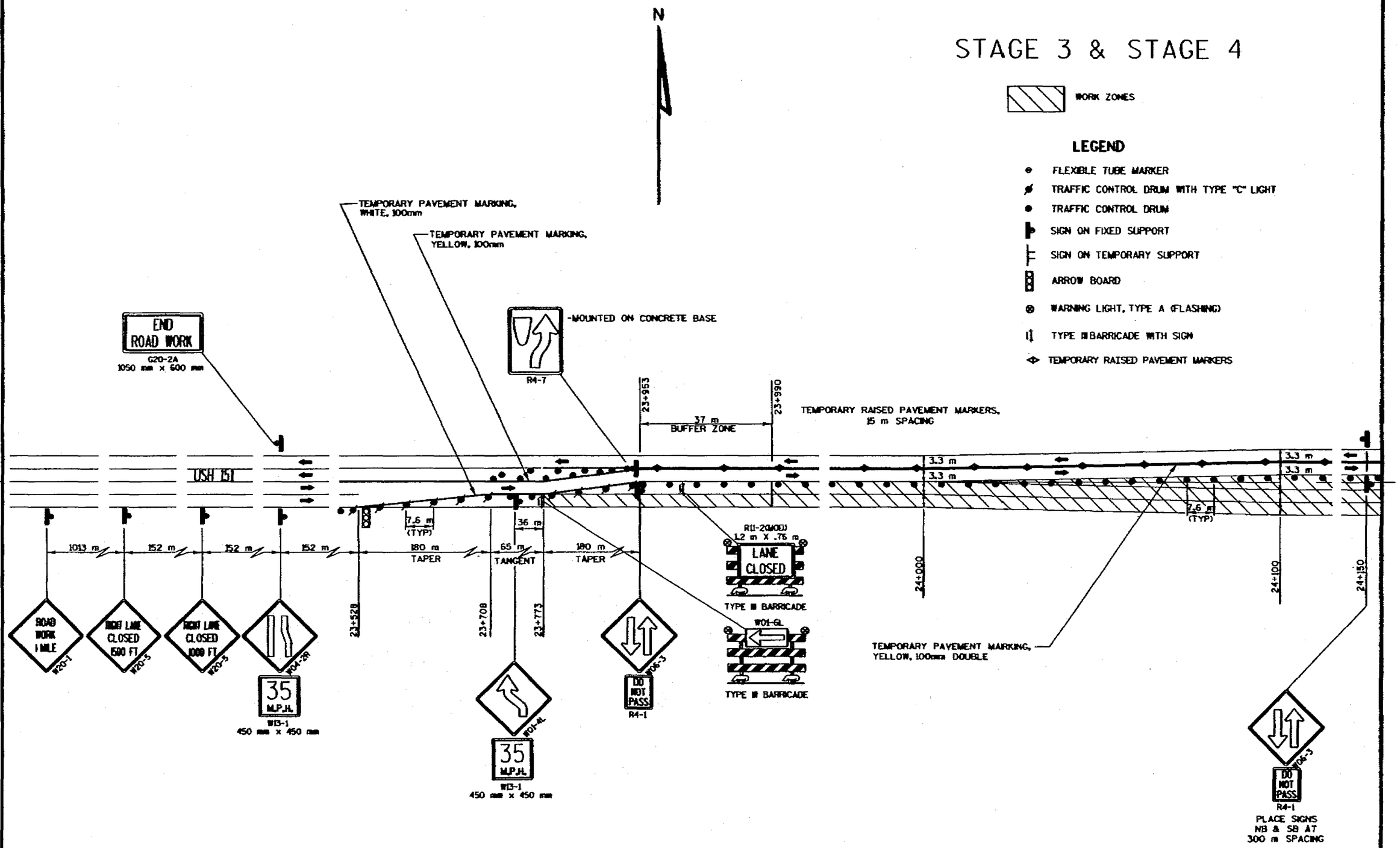
TRAFFIC CONTROL - STAGE 2 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.88	M

STAGE 3 & STAGE 4

WORK ZONES

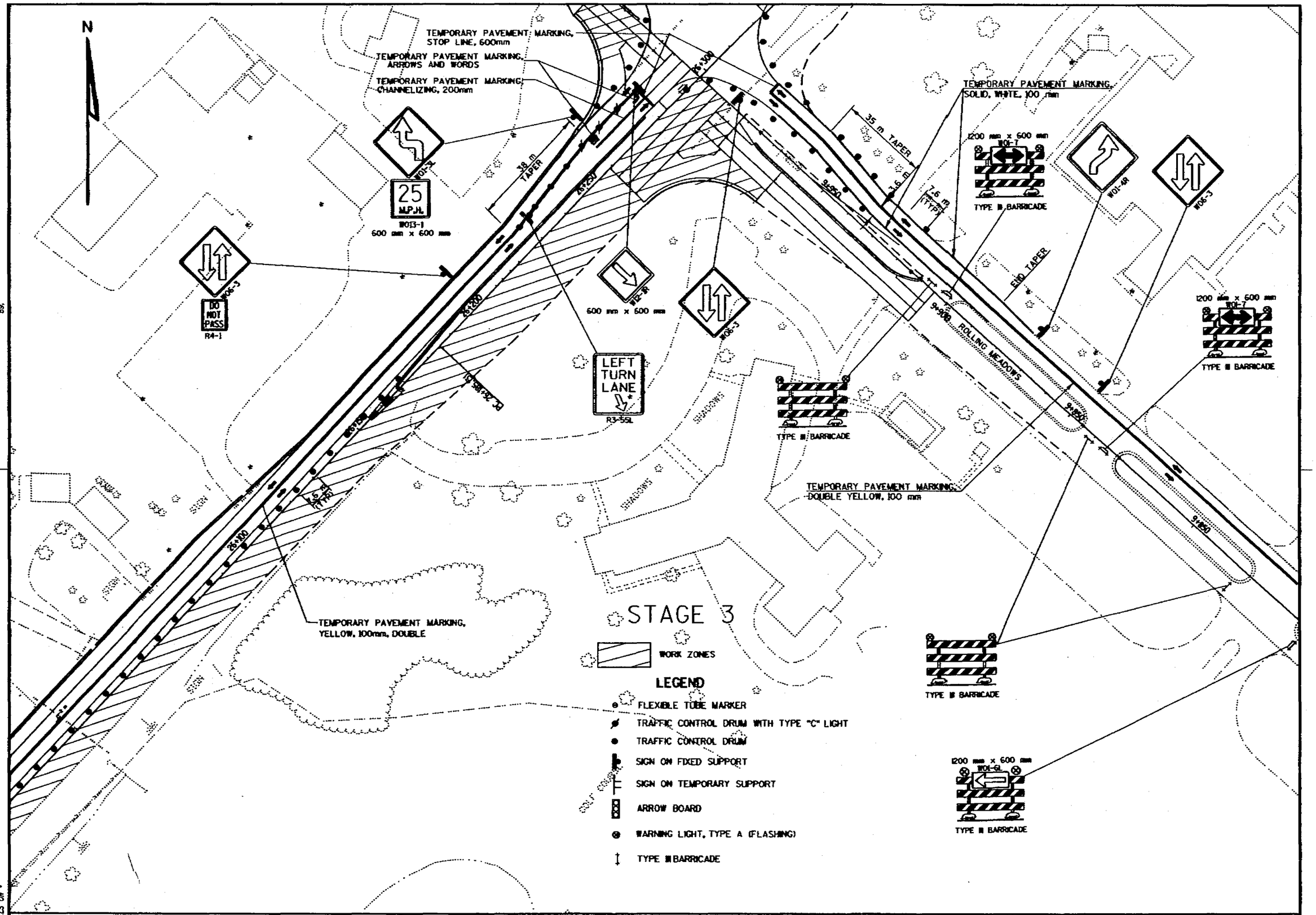
LEGEND

- FLEXIBLE TUBE MARKER
- TRAFFIC CONTROL DRUM WITH TYPE "C" LIGHT
- TRAFFIC CONTROL DRUM
- SIGN ON FIXED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- ARROW BOARD
- WARNING LIGHT, TYPE A (FLASHING)
- TYPE III BARRICADE WITH SIGN
- TEMPORARY RAISED PAVEMENT MARKERS



TRAFFIC CONTROL - STAGE 3&4 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.89	M

FILE NAME: D8 1420071SHTCB048.DGN ORIGINATOR: DISTRICT 8 REV. DATE: 12/19/98 PLOT SCALE: 1 PLOT DATE: LEVELS ON:



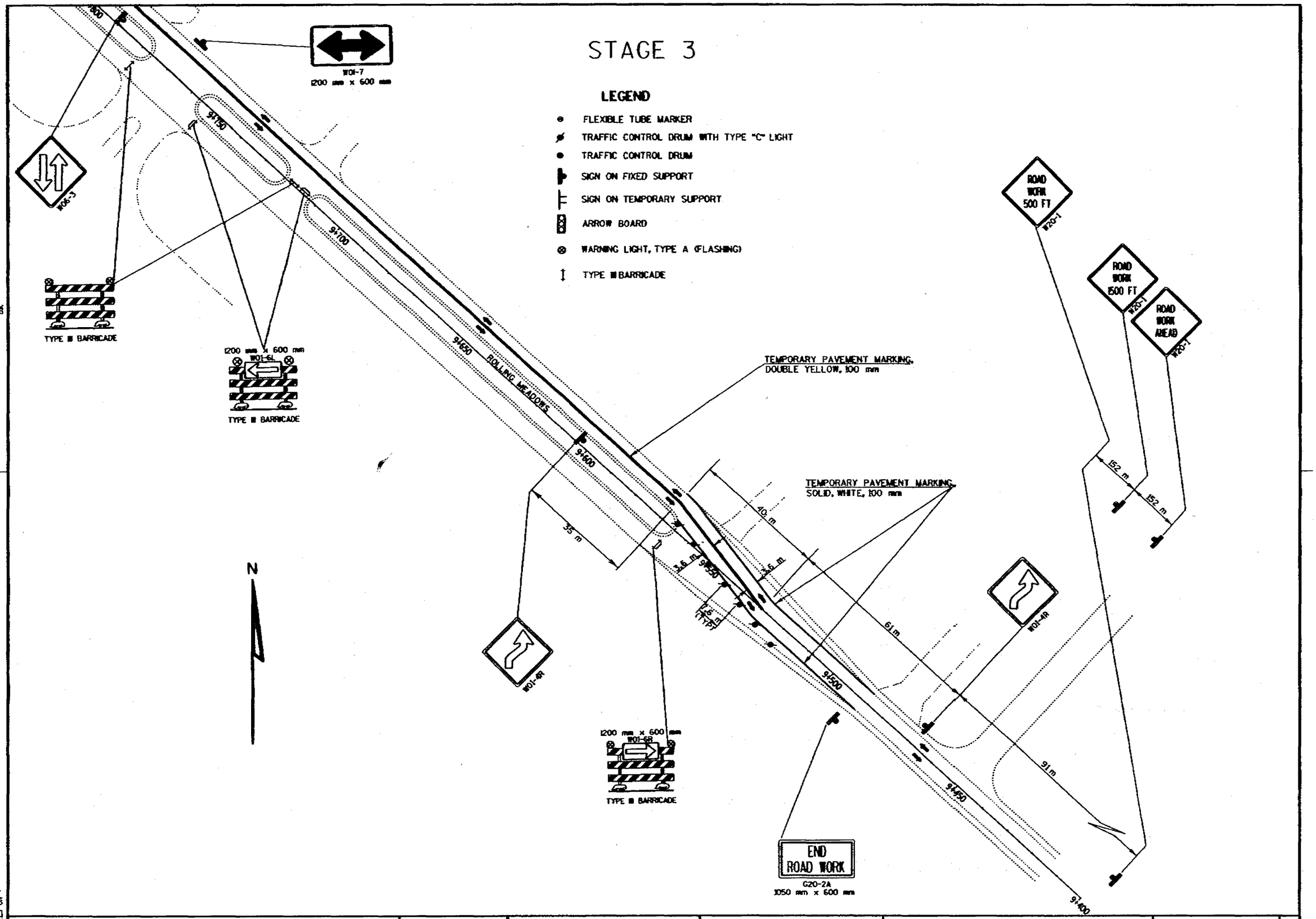
TRAFFIC CONTROL - STAGE 3 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.90	M

REV. DATE: 12/15/98 PLOT SCALE: 1 PLOT DATE: FILE NAME: D2 1420071S1TC803.DGN ORIGINATOR: DISTRICT 2 LEVELS ON:

STAGE 3

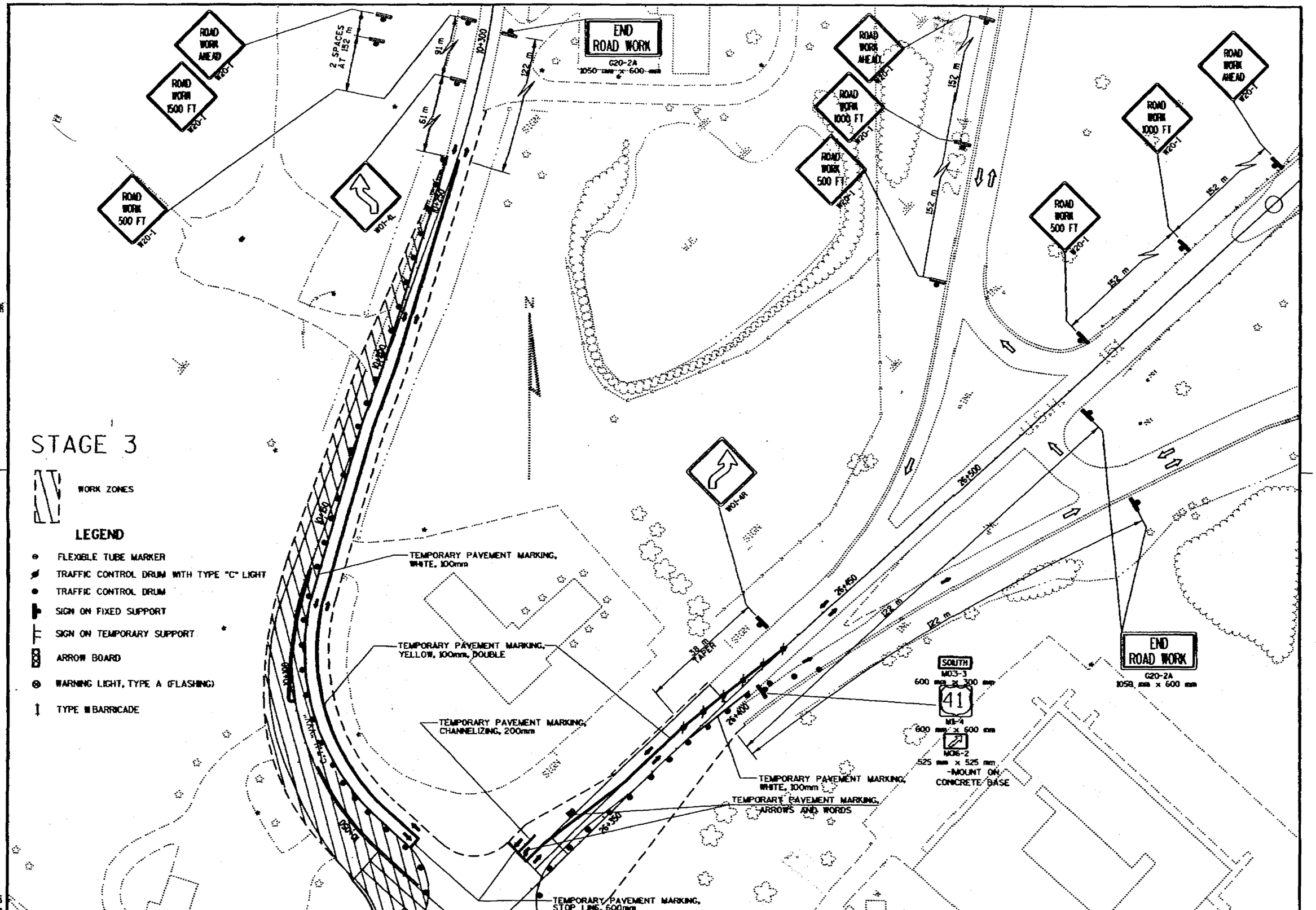
LEGEND

- FLEXIBLE TUBE MARKER
- TRAFFIC CONTROL DRUM WITH TYPE "C" LIGHT
- TRAFFIC CONTROL DRUM
- SIGN ON FIXED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- ARROW BOARD
- WARNING LIGHT, TYPE A (FLASHING)
- TYPE III BARRICADE



TRAFFIC CONTROL - STAGE 3 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.91	M

FILE NAME: D:\ 1420071511TC503X.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/18/98 PLOT SCALE: 1 ... PLOT DATE: ... LEVELS ON:


STAGE 3
WORK ZONES
LEGEND
FLEXIBLE TUBE MARKER
TRAFFIC CONTROL DRUM WITH TYPE "C" LIGHT
TRAFFIC CONTROL DRUM
SIGN ON FIXED SUPPORT
SIGN ON TEMPORARY SUPPORT
ARROW BOARD
WARNING LIGHT, TYPE A (FLASHING)
TYPE III BARRICADE
ROAD WORK AHEAD W20-1
ROAD WORK 1500 FT W20-1
ROAD WORK 500 FT W20-1
2 SPACES AT 152 m
91 m
61 m
122 m
W01-4L
W01-4R
END ROAD WORK
G20-2A
1050 mm x 600 mm
ROAD WORK 1000 FT W20-1
152 m
TEMPORARY PAVEMENT MARKING, WHITE, 100mm
TEMPORARY PAVEMENT MARKING, YELLOW, 100mm, DOUBLE
TEMPORARY PAVEMENT MARKING, CHANNELIZING, 200mm
38 m TAPER
SOUTH
M03-3
600 mm x 300 mm
41
M1-4
600 mm x 600 mm
M06-2
525 mm x 525 mm
MOUNT ON CONCRETE BASE
TEMPORARY PAVEMENT MARKING, WHITE, 100mm
TEMPORARY PAVEMENT MARKING, ARROWS AND WORDS
TEMPORARY PAVEMENT MARKING, STOP LINE, 600mm
26+300
26+350
26+400
26+450
26+500
26+550
0+450
0+500
0+550
0+600
0+650
0+700
0+750
0+800
0+850
0+900
0+950
1+000
1+050
1+100
1+150
1+200
1+250
1+300
1+350
1+400
1+450
1+500
1+550
1+600
1+650
1+700
1+750
1+800
1+850
1+900
1+950
2+000
2+050
2+100
2+150
2+200
2+250
2+300
2+350
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2+700
2+750
2+800
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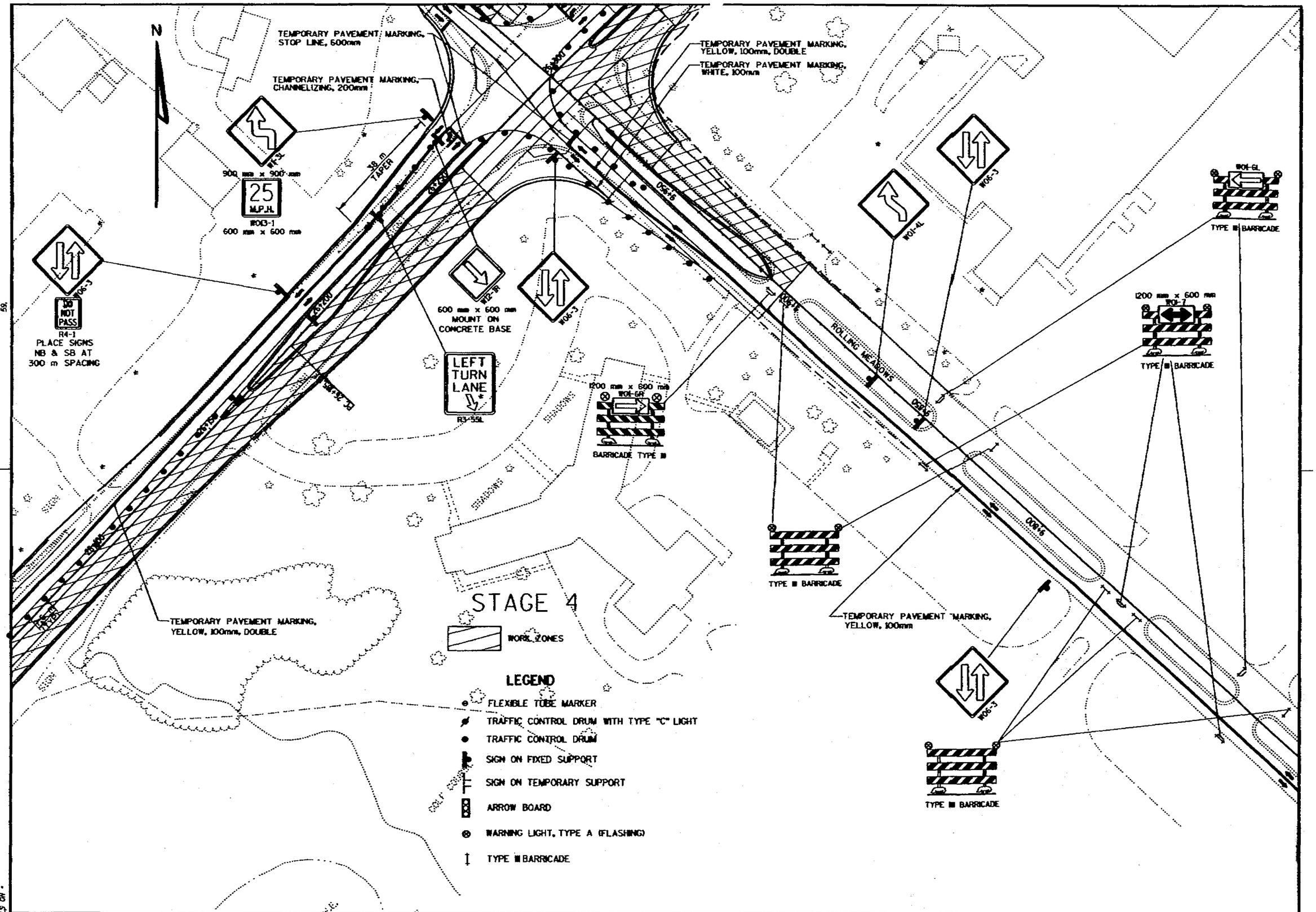
3+200
3+250
3+300
3+350
3+400



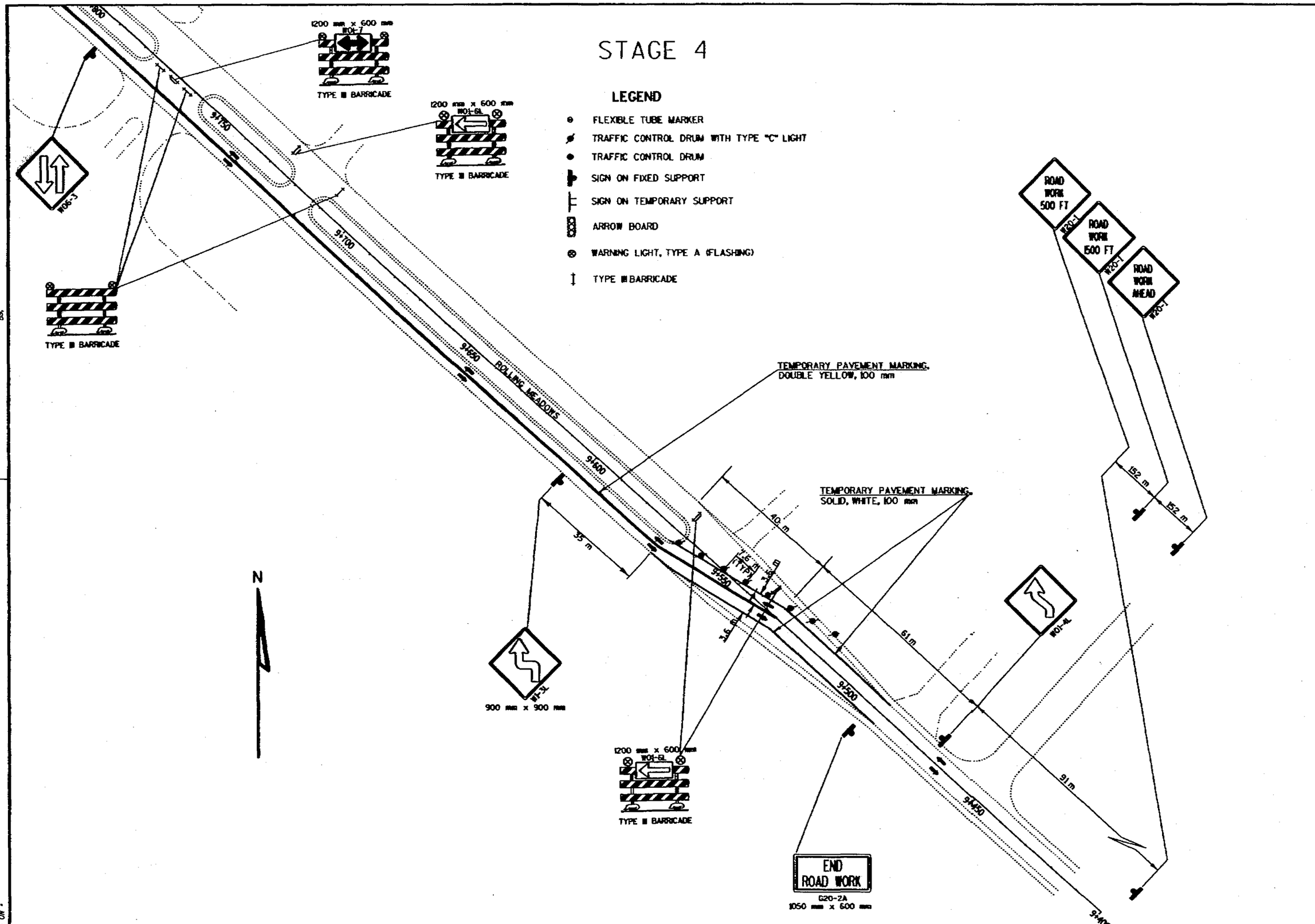
TRAFFIC CONTROL - STAGE 4 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.93	M

FILE NAME: D2 1420071S1TC604.DGN PLOT SCALE: 1 ORIGINATOR: DISTRICT 2 REV. DATE: 12/18/96 PLOT DATE: LEVELS ON

STAGE 4

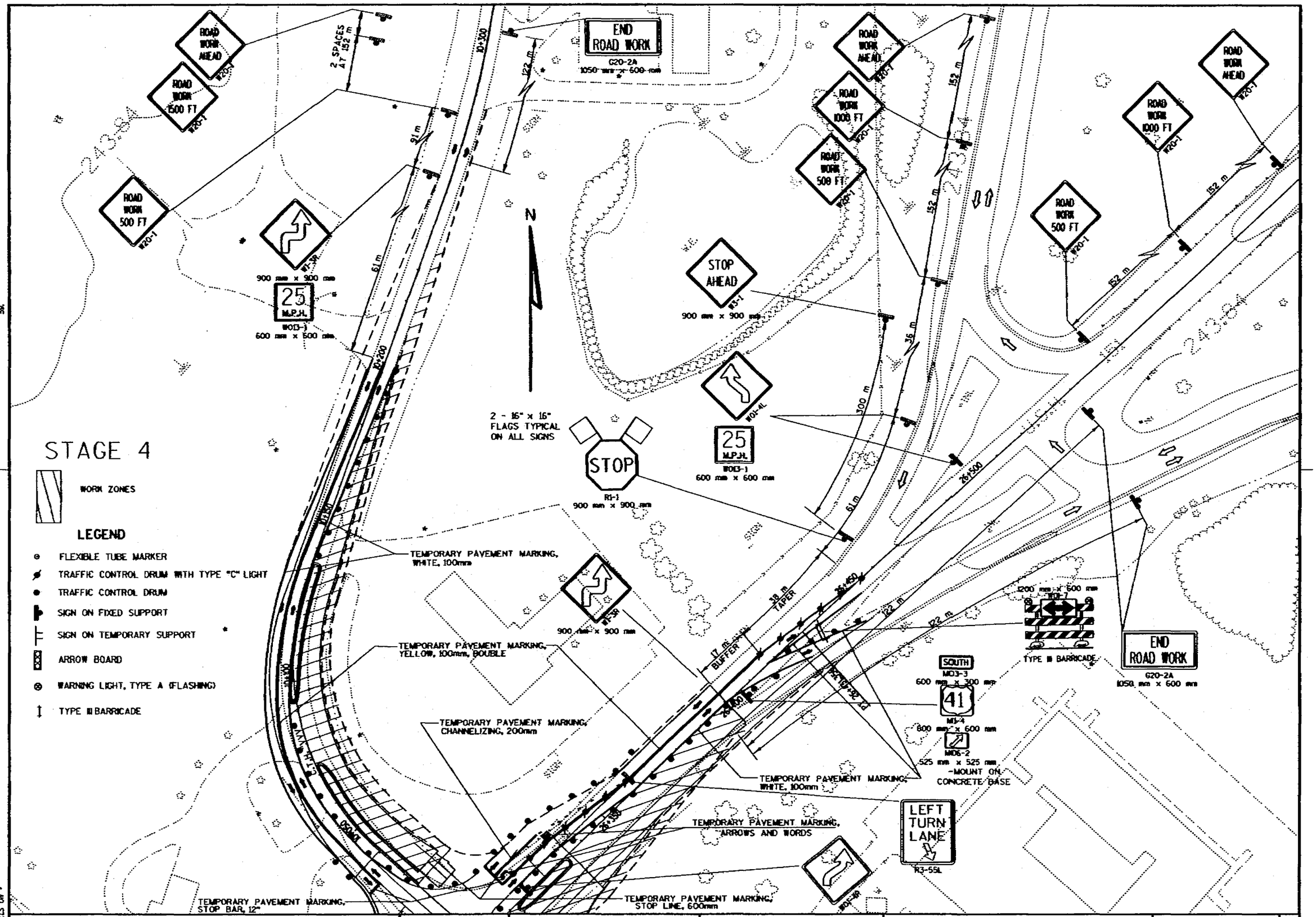
LEGEND

- FLEXIBLE TUBE MARKER
- TRAFFIC CONTROL DRUM WITH TYPE "C" LIGHT
- TRAFFIC CONTROL DRUM
- SIGN ON FIXED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- ARROW BOARD
- WARNING LIGHT, TYPE A (FLASHING)
- TYPE III BARRICADE

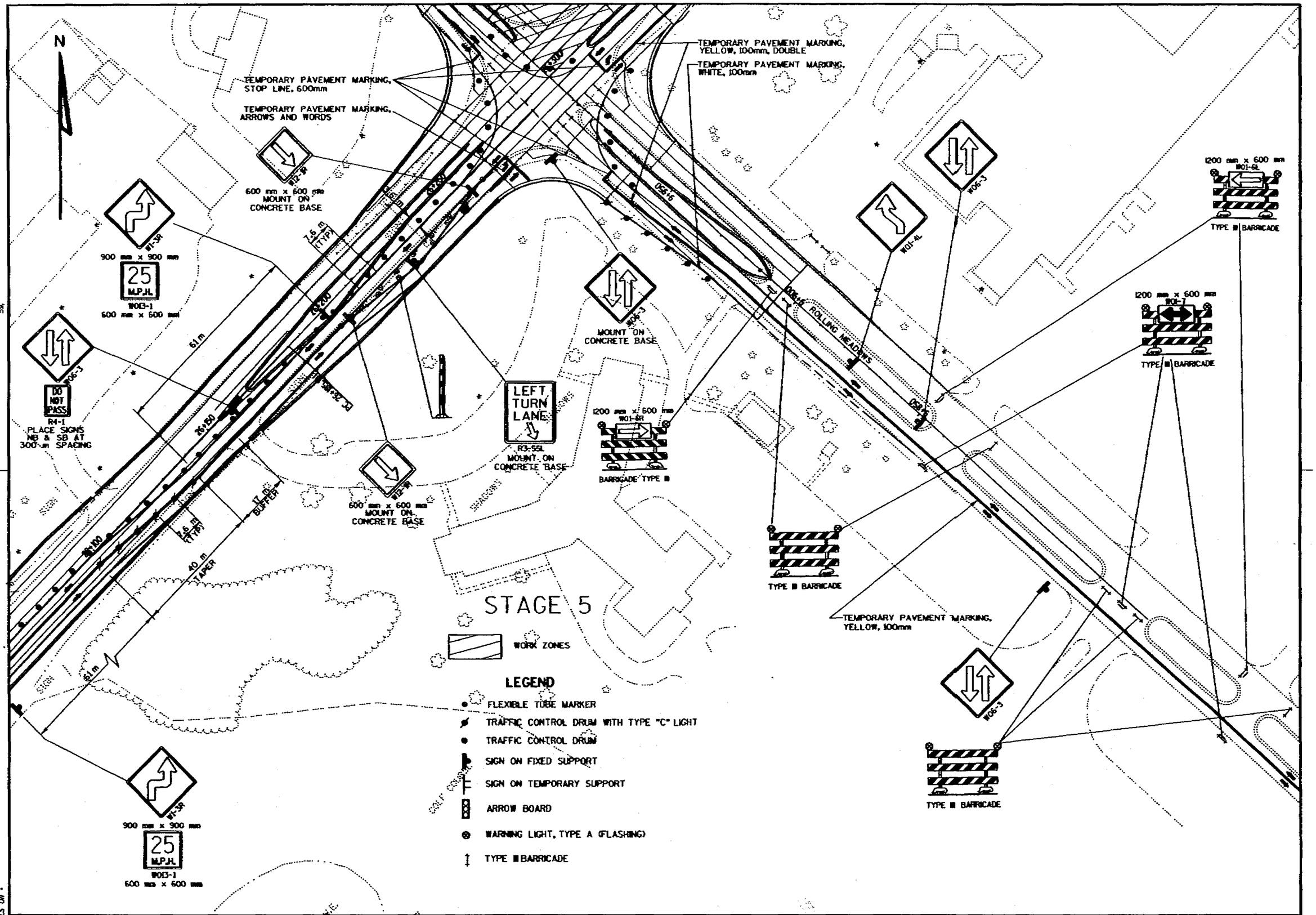


TRAFFIC CONTROL - STAGE 4 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.94	M

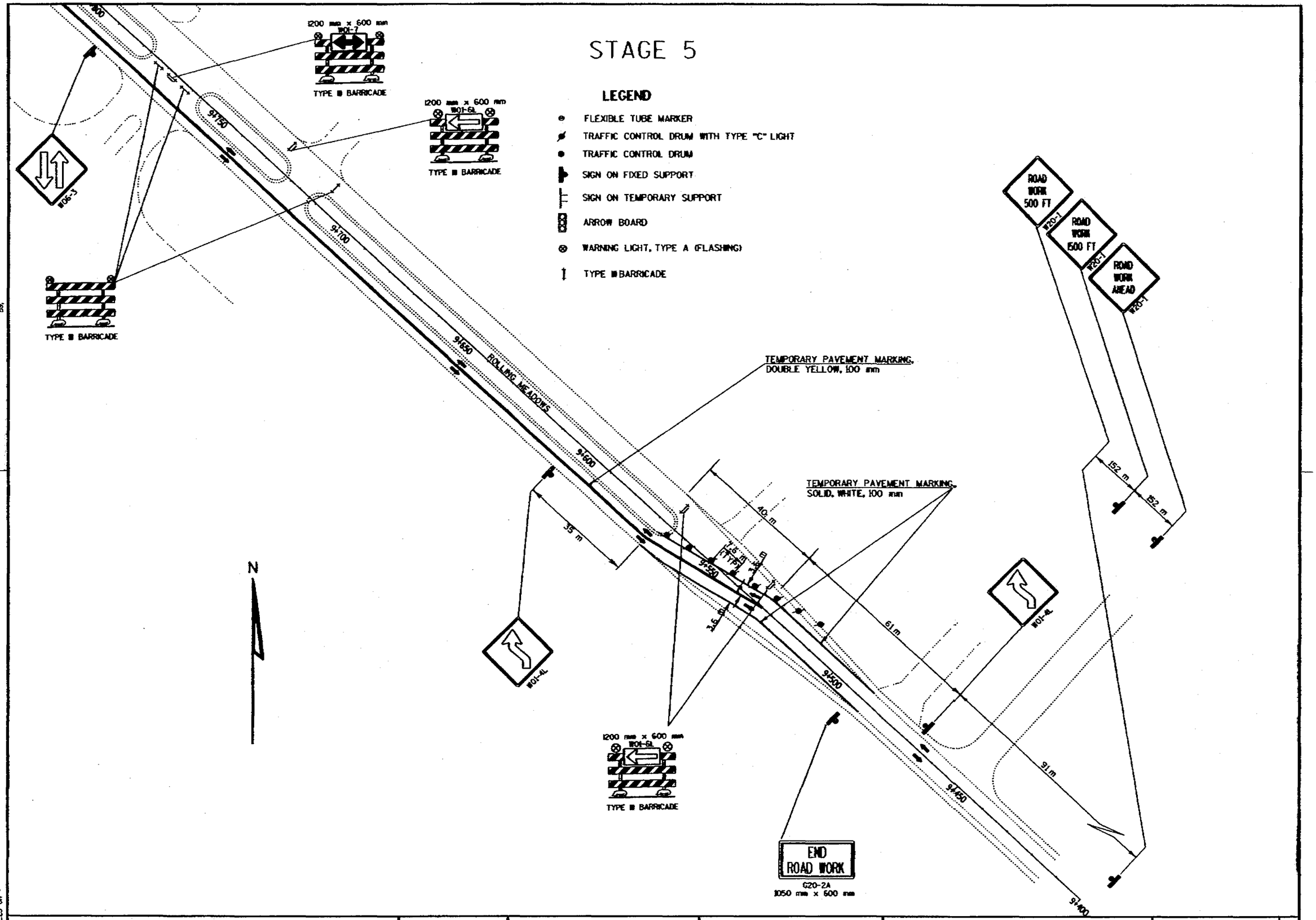
FILE NAME: D:\1420071\TC604X.DGN ORIGINATOR: DISTRICT # REV. DATE: 12/18/98 PLOT SCALE: 1 PLOT DATE: 99/01/07 LEVELS ON:



TRAFFIC CONTROL - STAGE 4 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.95	M

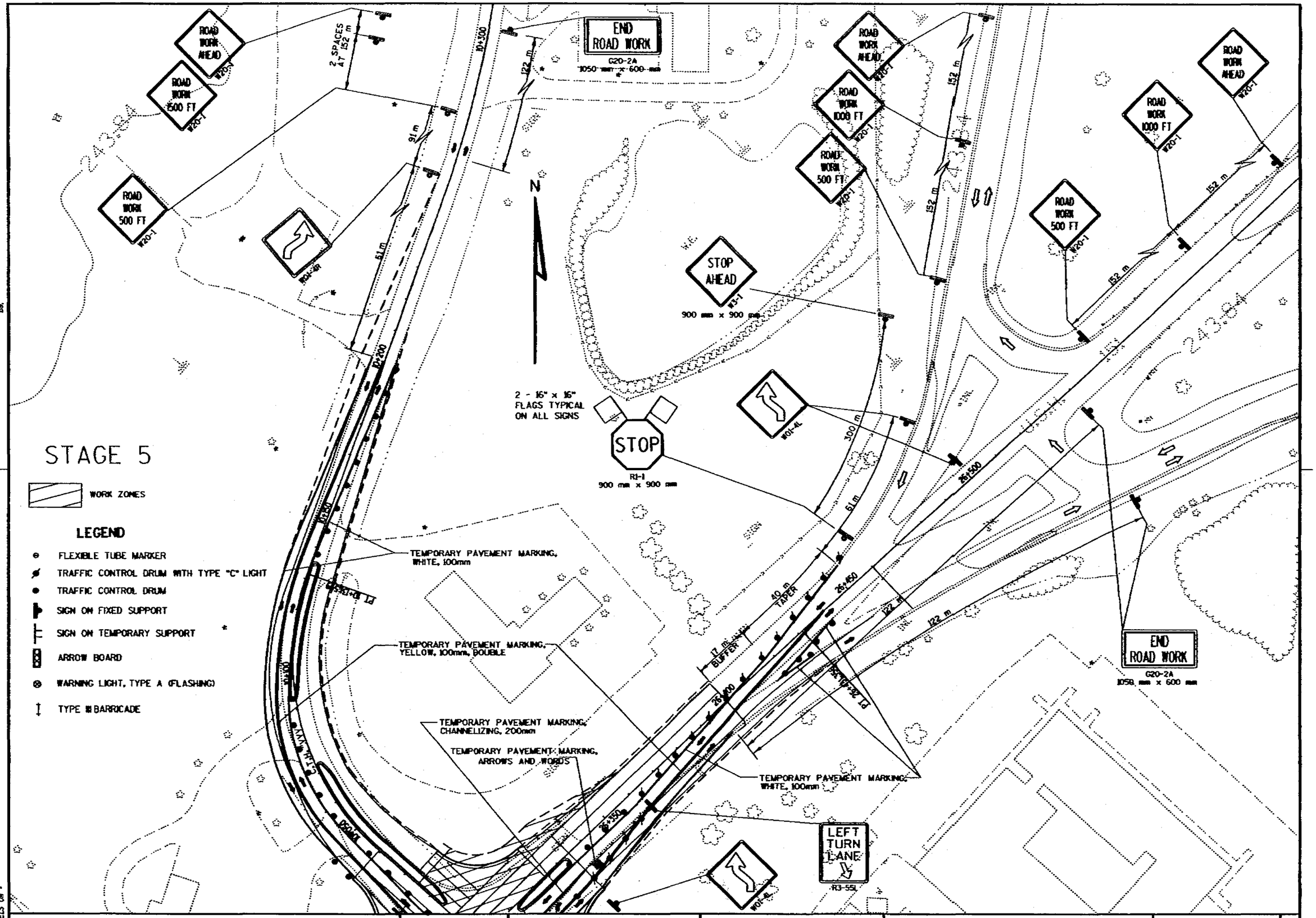


TRAFFIC CONTROL - STAGE 5 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.96	M

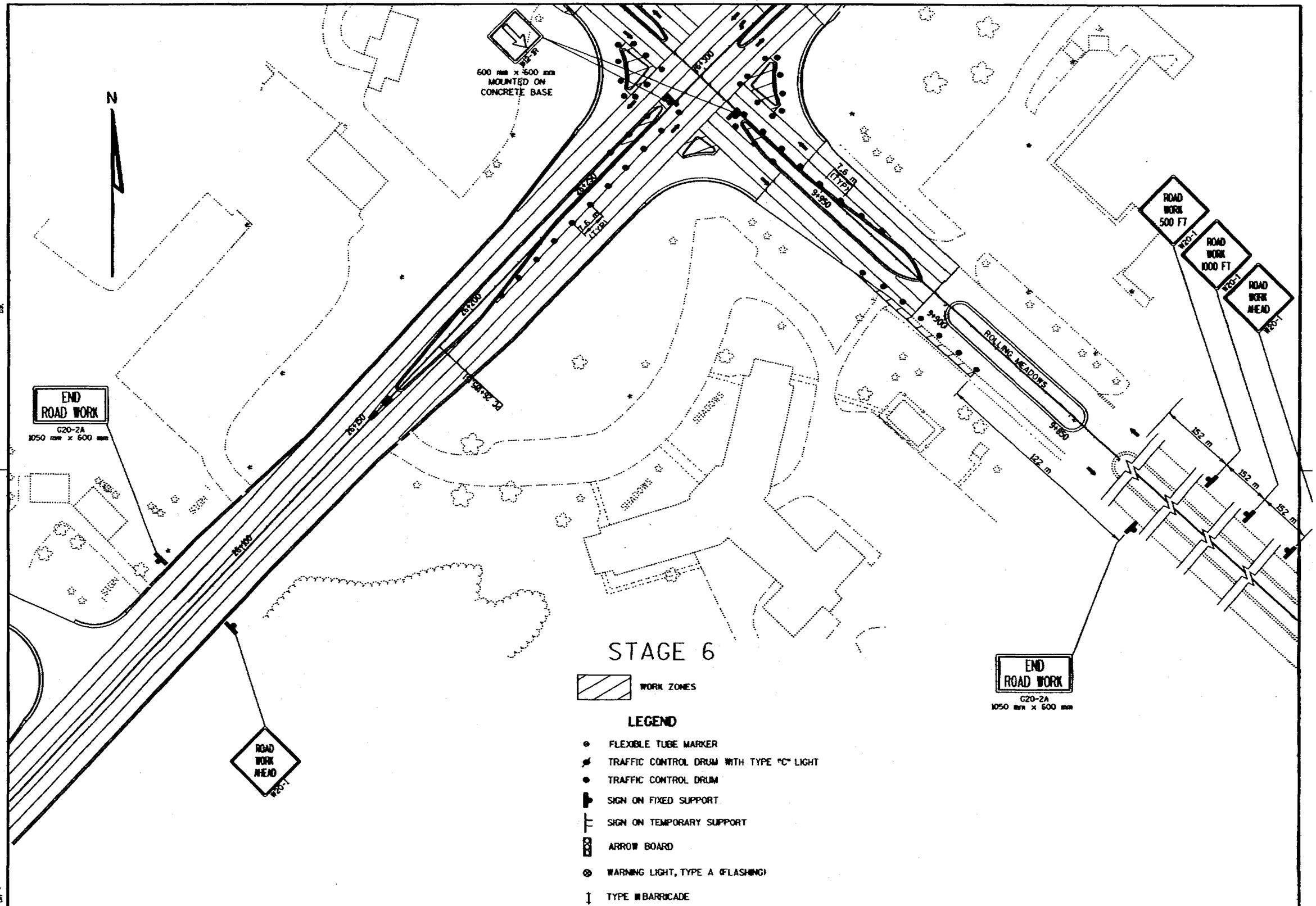


TRAFFIC CONTROL - STAGE 5 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.97	M

FILE NAME: D2 1420071BUTC505X.DGN ORIGINATOR: DISTRICT 2 REV. DATE: 12/21/98 PLOT SCALE: 1 ss...plotscale...ss PLOT DATE: ss...plotting date...ss
LEVELS ON:

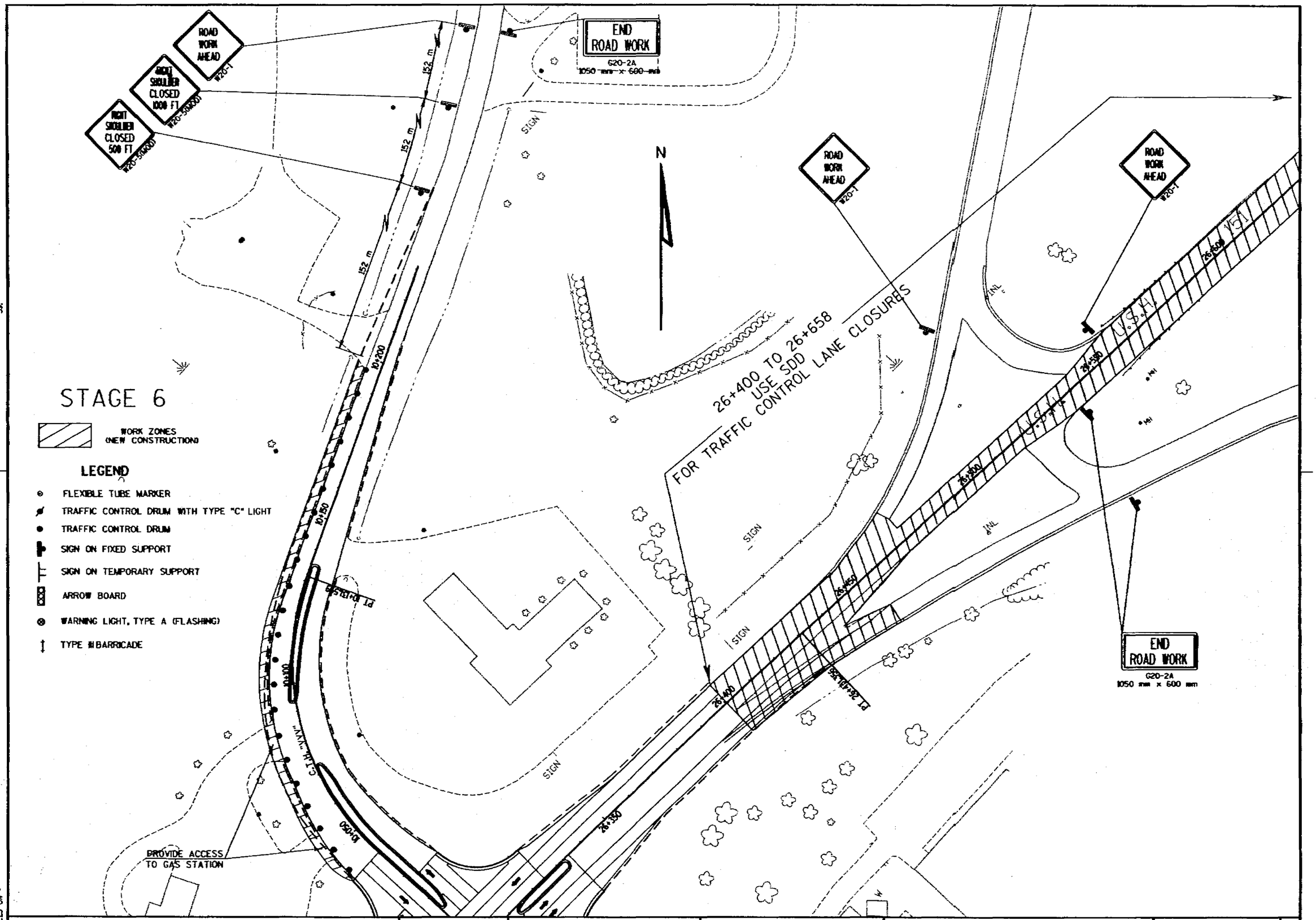


TRAFFIC CONTROL - STAGE 5 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.98	M



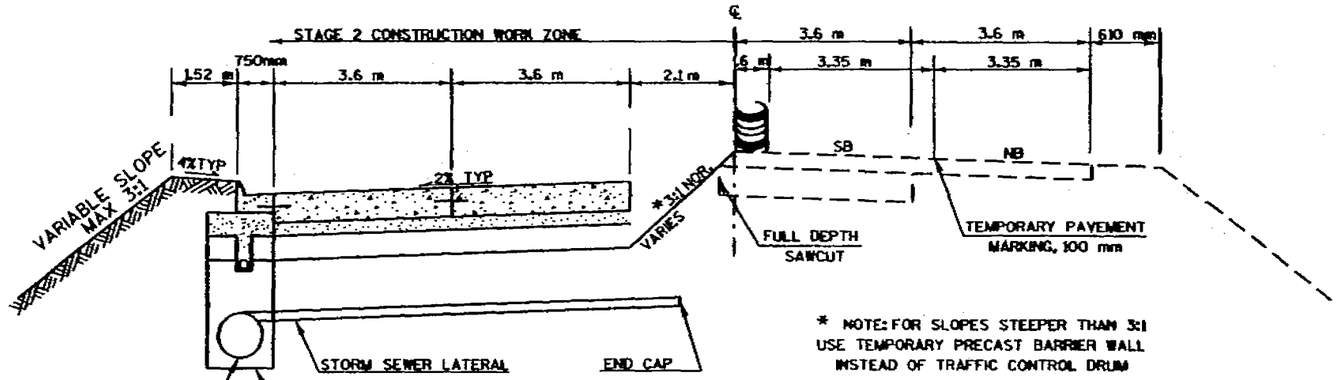
TRAFFIC CONTROL - STAGE 6 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.99	M

FILE NAME: D2 1420071SITC608.DGN ORIGINATOR: DISTRICT 2 PLOT SCALE: 1 es...plotscale...es PLOT DATE: es...plotting date...es REV. DATE: 12/21/98
LEVELS ON



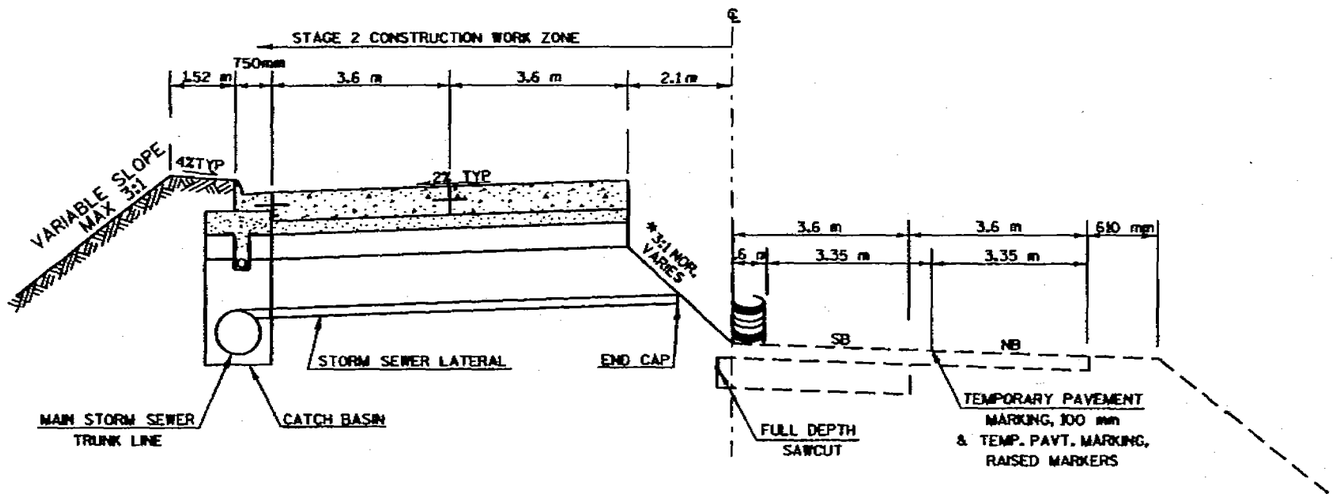
TRAFFIC CONTROL - STAGE 6 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.100	M

REV. DATE: 12/21/98 PLOT SCALE: 1 PLOT DATE: ORIGINATOR: DISTRICT
FILE NAME: D2 1420071SUTC5CS6A.DGN
LEVELS ON



* NOTE: FOR SLOPES STEEPER THAN 3:1 USE TEMPORARY PRECAST BARRIER WALL INSTEAD OF TRAFFIC CONTROL DRUM

TYPICAL CONSTRUCTION STAGING - STAGE 2
(CUT SECTION)
U.S.H. 151



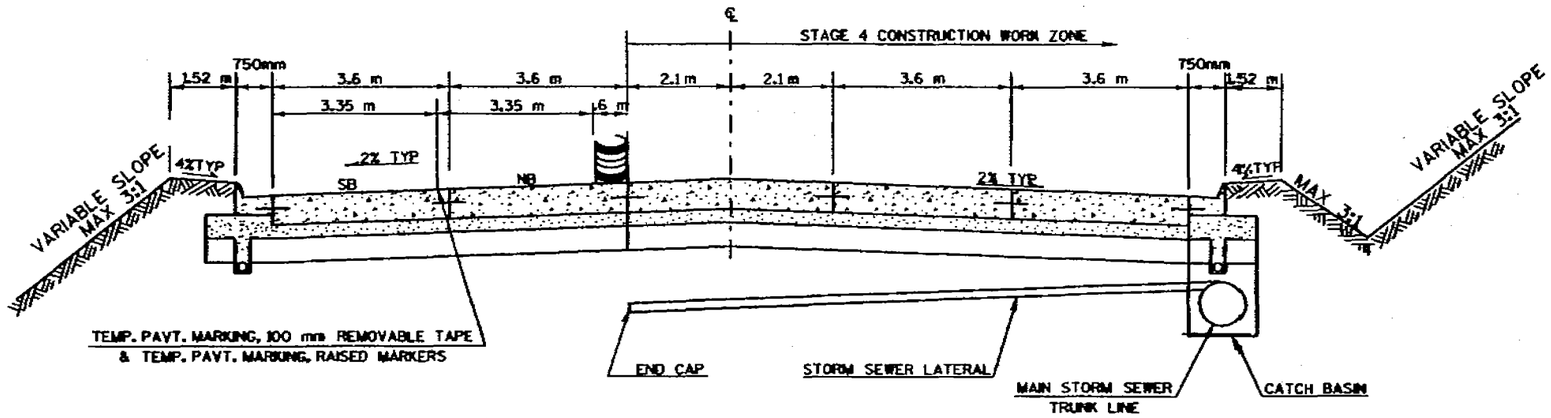
* NOTE: FOR SLOPES STEEPER THAN 3:1 USE TEMPORARY PRECAST BARRIER WALL INSTEAD OF TRAFFIC CONTROL DRUM

TYPICAL CONSTRUCTION STAGING - STAGE 2
(FILL SECTION)
U.S.H. 151

2

TYPICAL SECTIONS	SCALE: 1:NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.101	M

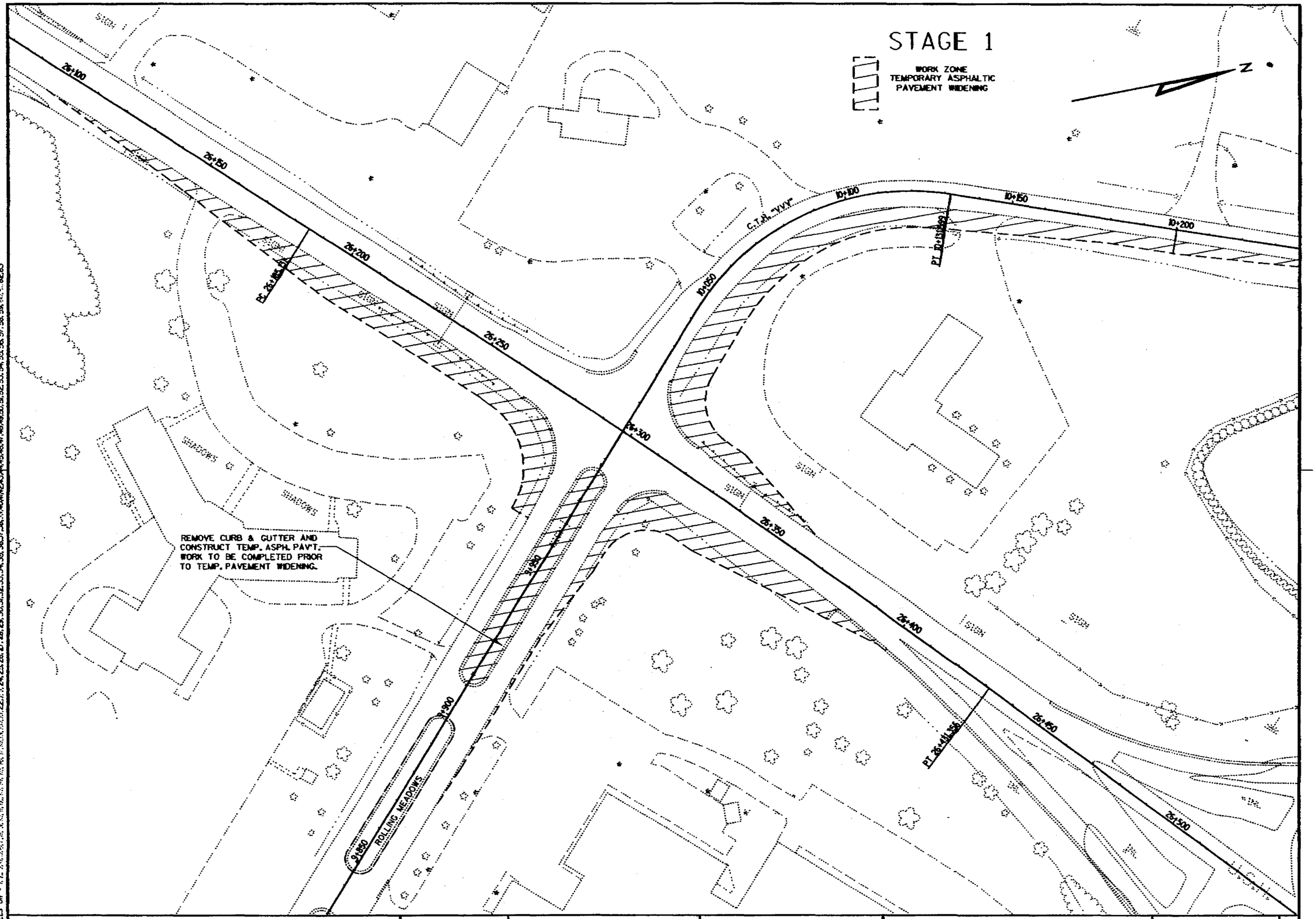
FILE NAME: 02 1420071B1.tr.dgn ORIGINATOR: DISTRICT 2 REV. DATE: PLOT SCALE: 1 PLOT DATE:
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



TYPICAL CONSTRUCTION STAGING - STAGE 4
U.S.H. 151

TYPICAL SECTIONS	SCALE: 1:NTS	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.102

FILE NAME: 42 1420078U+ys.dgn ORIGINATOR: DISTRICT 2 REV. DATE: PLOT SCALE: 1 PLOT 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
2/8

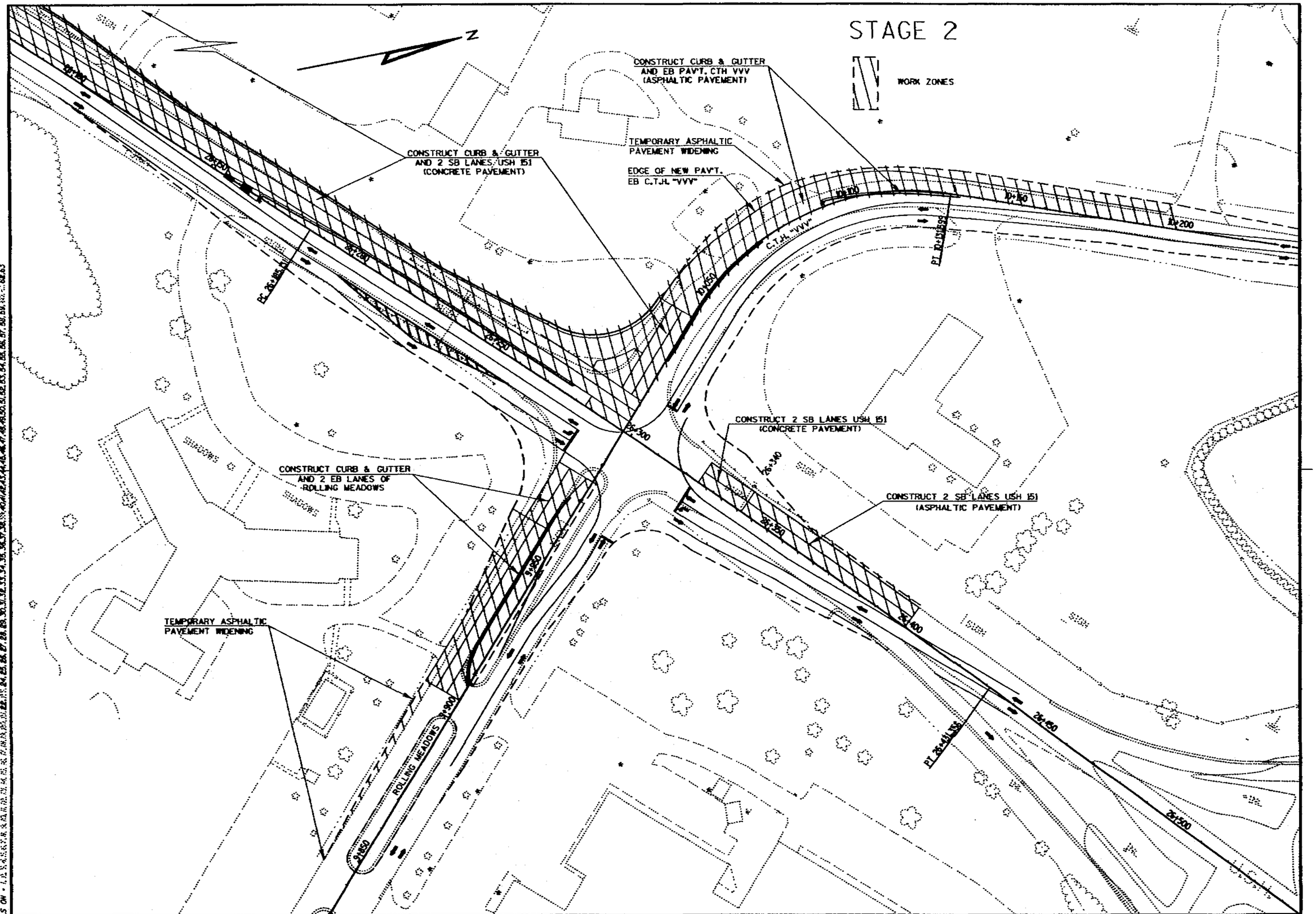


STAGE 1 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.103	M

FILE NAME: D8 1420071BUTC8.DGN ORIGINATOR: DISTRICT 8 PLOT SCALE: 1 PLOT DATE: REV. DATE: 12/14/98

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

3/8


STAGE 2
WORK ZONES
N
CONSTRUCT CURB & GUTTER AND EB PAV'T. CTH VVV (ASPHALTIC PAVEMENT)
TEMPORARY ASPHALTIC PAVEMENT WIDENING
EDGE OF NEW PAV'T. EB C.T.H. "VVV"
CONSTRUCT CURB & GUTTER AND 2 SB LANES USH 151 (CONCRETE PAVEMENT)
CONSTRUCT 2 SB LANES USH 151 (CONCRETE PAVEMENT)
CONSTRUCT 2 SB LANES USH 151 (ASPHALTIC PAVEMENT)
CONSTRUCT CURB & GUTTER AND 2 EB LANES OF ROLLING MEADOWS
TEMPORARY ASPHALTIC PAVEMENT WIDENING
ROLLING MEADOWS
C.T.H. "VVV"
PC 26+85.51
PT 10+13.88
PT 26+41.58
10+100
10+150
10+200
26+250
26+300
26+340
26+350
26+400
26+450
26+500
26+550
26+600
26+650
26+700
26+750
26+800
26+850
26+900
26+950
27+000
27+050
27+100
27+150
27+200
27+250
27+300
27+350
27+400
27+450
27+500
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27+650
27+700
27+750
27+800
27+850
27+900
27+950
28+000
28+050
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28+150
28+200
28+250
28+300
28+350
28+400
28+450
28+500
28+550
28+600
28+650
28+700
28+750
28+800
28+850
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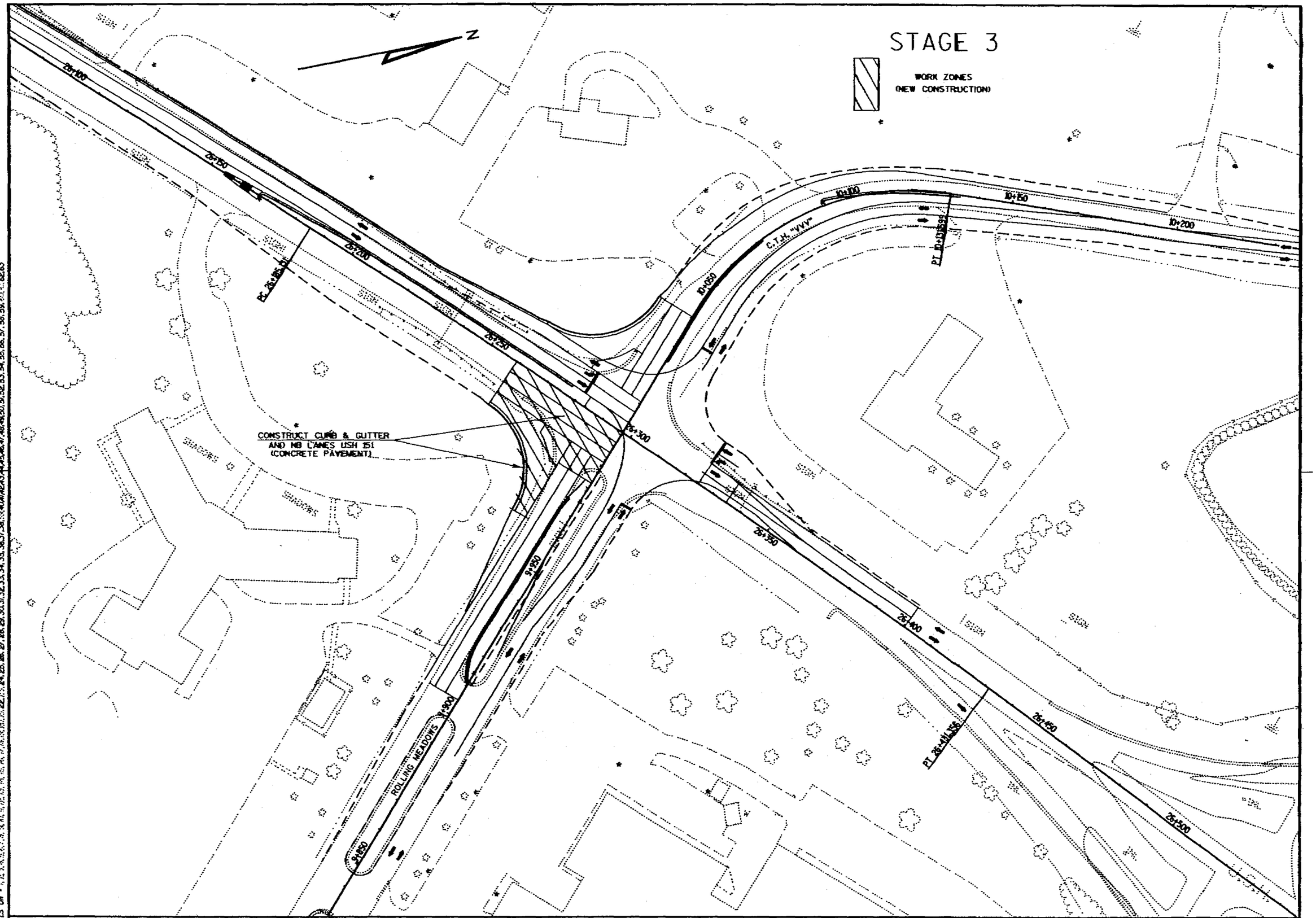
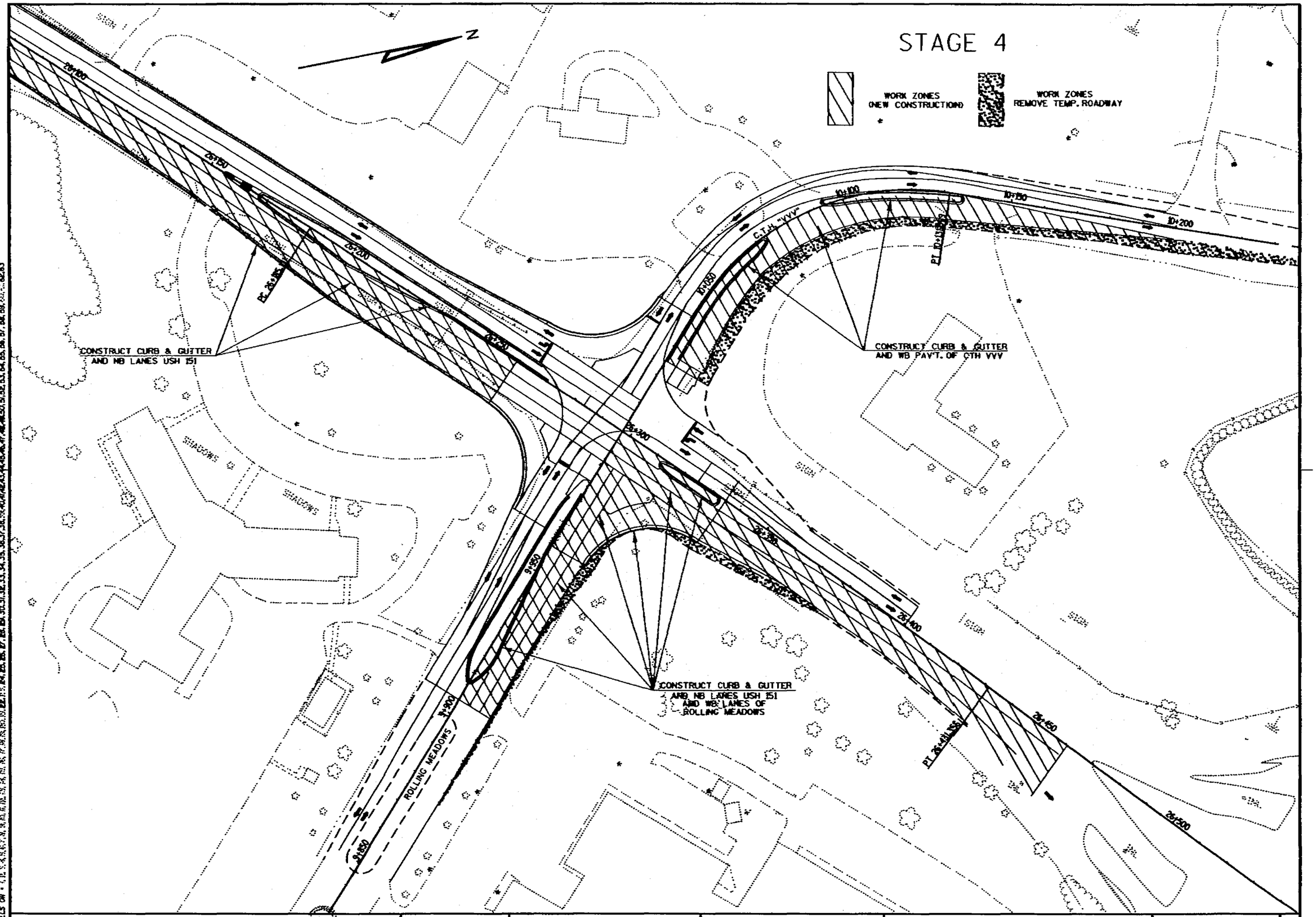
28+950
29+000
29+050
29+100
29+150
29+200
29+250
29+300



STAGE 3 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.105	M

5/8

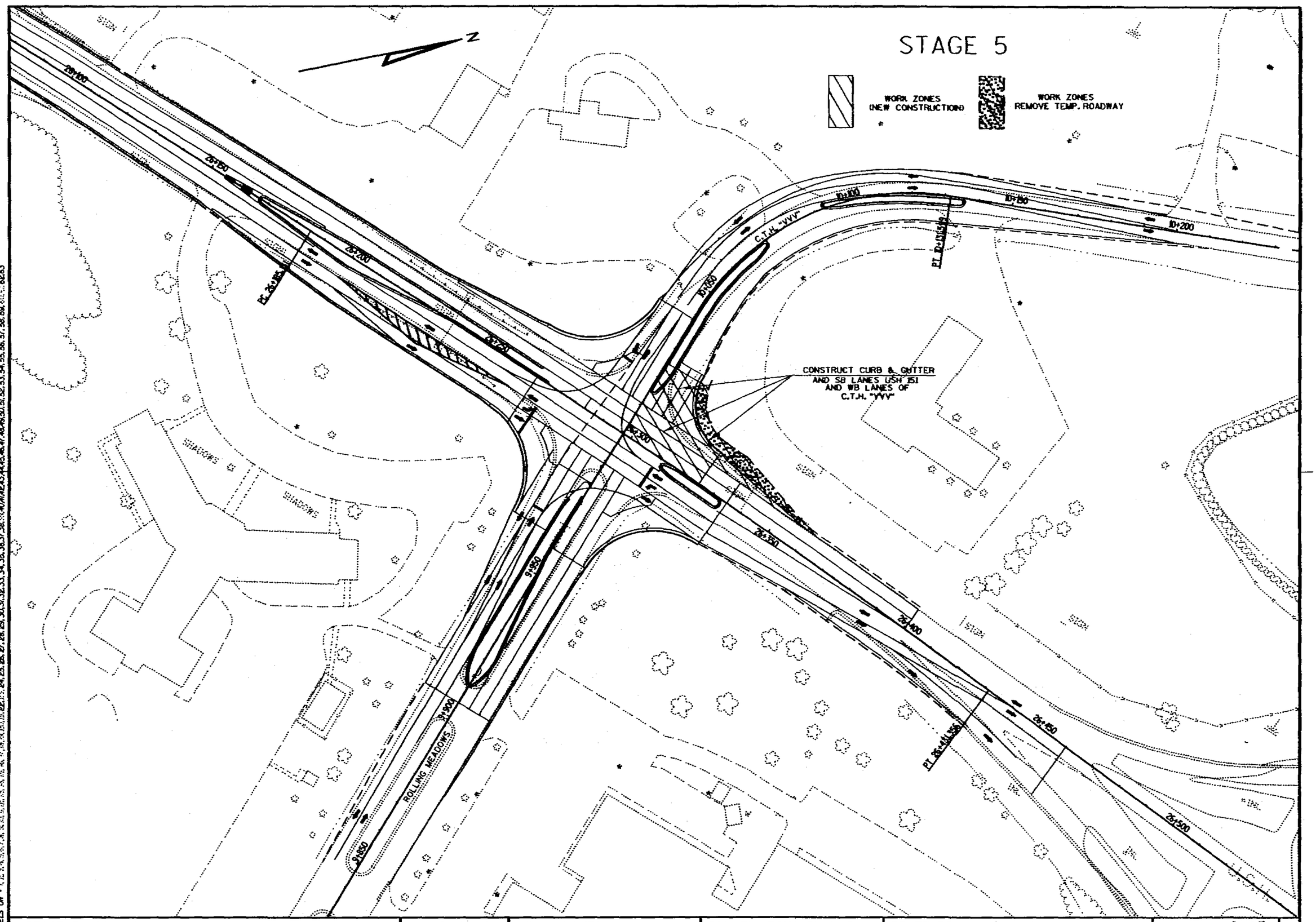
FILE NAME: D8 1420071511TC53.DGN ORDINATOR: DISTRICT 2 REV. DATE: 12/14/98 PLOT SCALE: 1 PLOT DATE:



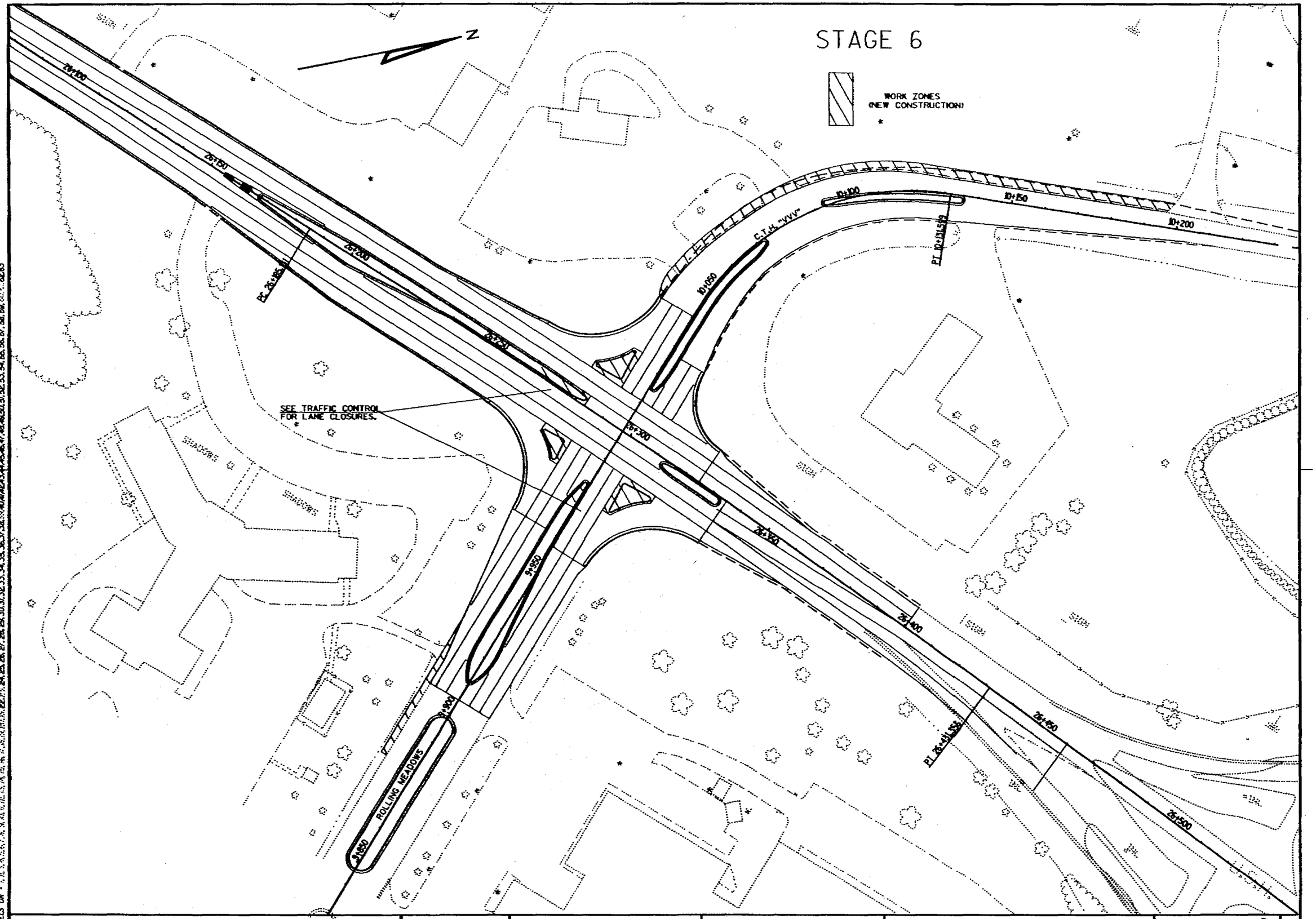
STAGE 4 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.106	M

FILE NAME: D8 1420GTSUT084.DGN ORIGINATOR: DISTRICT 8 REV. DATE: 12/14/98 PLOT SCALE: 1 PLOT DATE: 99...bierringdete...99
LEVELS ON: 1,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

6/8



STAGE 5 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.107	M

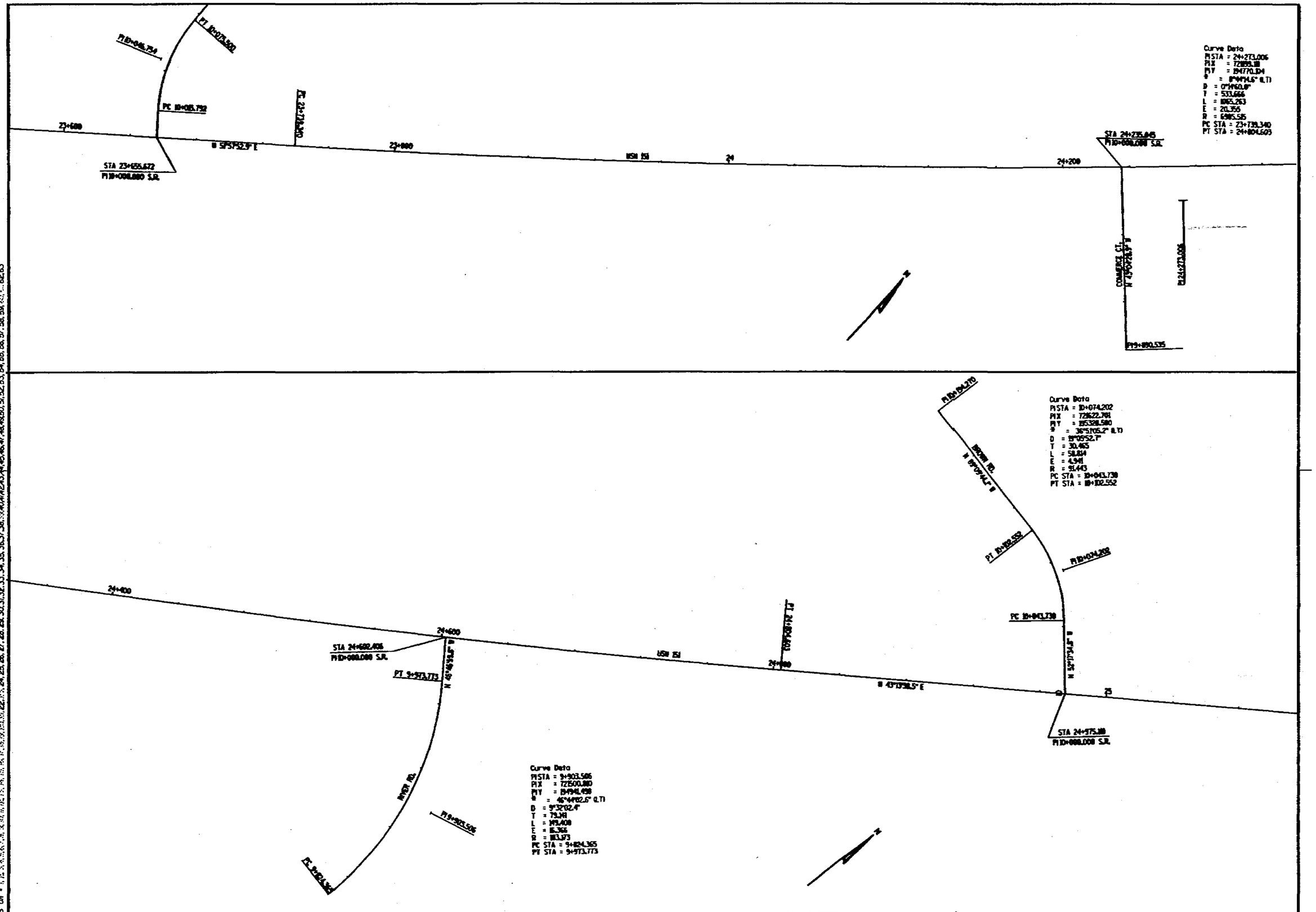


STAGE 6 CONSTRUCTION	SCALE: 1:500	HWY: USH 151	COUNTY: FOND DU LAC	STATE PROJECT NO: 1420-07-70	SHEET NO: 2.108	M

FILE NAME: D2 1420071S3TC06.DGN ORIGINATOR: DISTRICT 8 REV. DATE: 12/14/98 PLOT SCALE: 1 PLOT DATE:

LEVELS ON

8/8

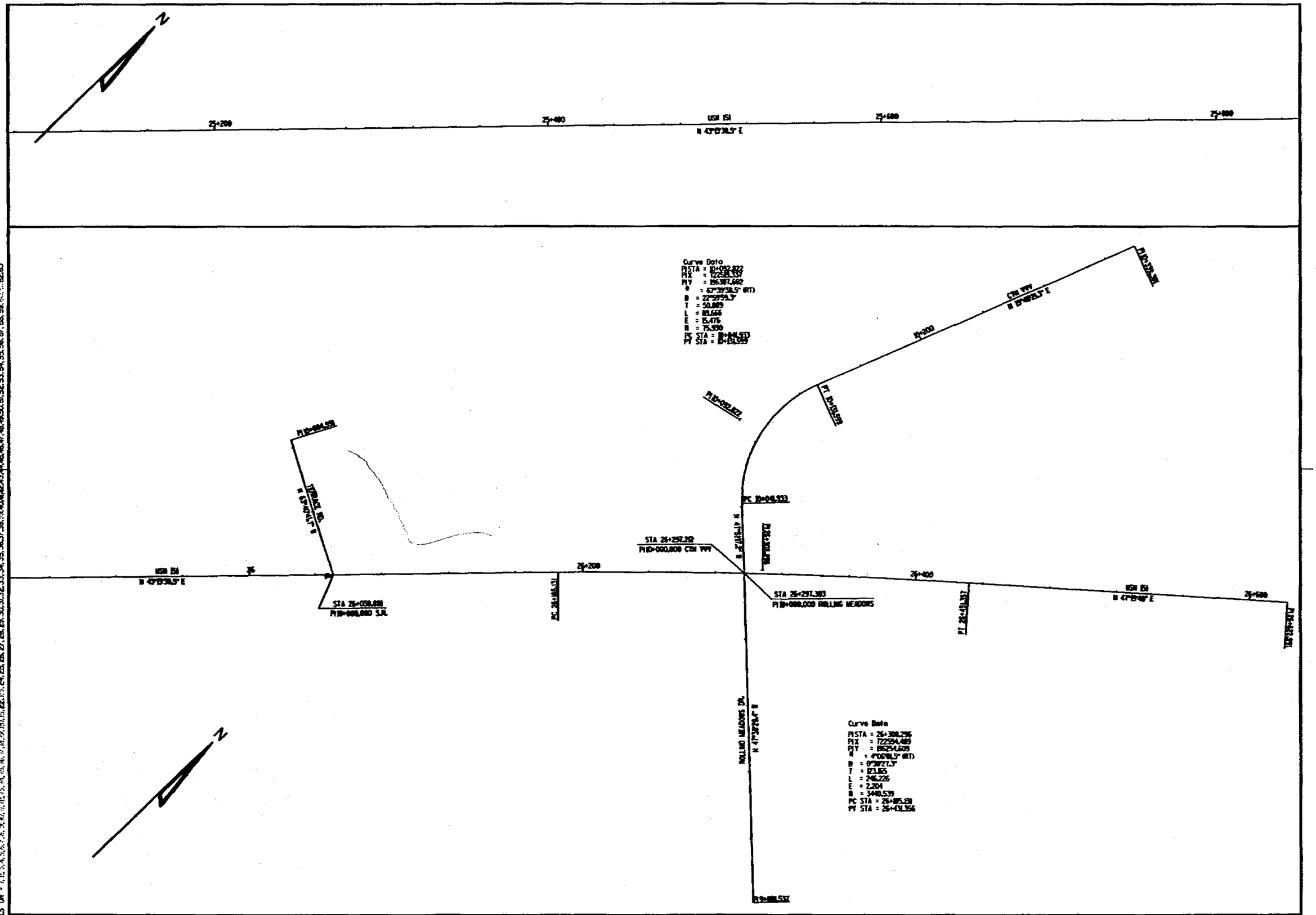


STATE PROJECT NO: 1420-07-70	HWY: USH 151	COUNTY: FOND DU LAC	ALIGNMENT LAYOUT	SHEET NO: 2.109	M

FILE NAME: D:\1420071\01\LAYOUT1.DGN ORIGINATOR: REV. DATE: PLOT SCALE: 1 PLOT 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

1/2



STATE PROJECT NO: 1420-07-70	HWY: USH 151	COUNTY: FOND DU LAC	ALIGNMENT LAYOUT	SHEET NO: 2.110	M

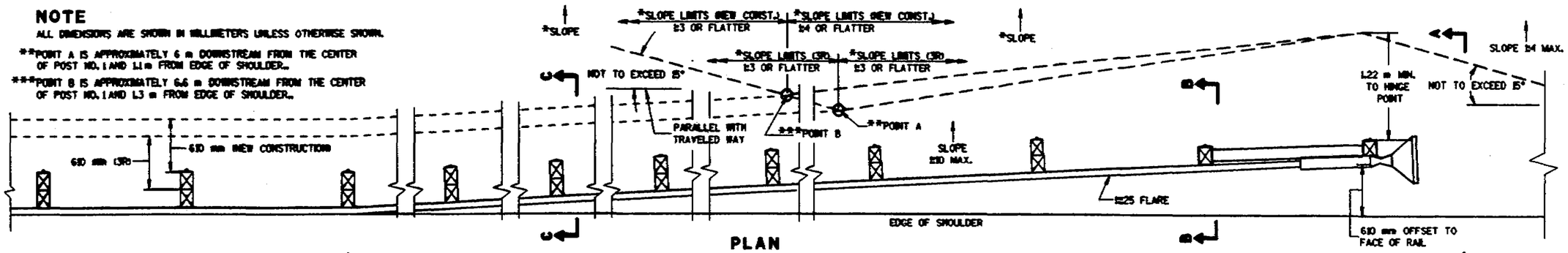
FILE NAME: D2 1420071SULAYOUT2.DGN ORIGINATOR: 2/2
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
REV. DATE: 12/14/98 PLOT SCALE : 60....Dist=60010.....98 PLOT DATE: 98...Dietlingdate...98

NOTE

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE SHOWN.

**POINT A IS APPROXIMATELY 6 m DOWNSTREAM FROM THE CENTER OF POST NO. 1 AND 1.1 m FROM EDGE OF SHOULDER.

***POINT B IS APPROXIMATELY 6.6 m DOWNSTREAM FROM THE CENTER OF POST NO. 1 AND 1.3 m FROM EDGE OF SHOULDER.



PLAN

MEASURED LENGTH OF STEEL PLATE BEAM GUARD, CLASS A

STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL
(PAYMENT IS FOR UNIT PRICE EACH. NO ADDITIONAL PAYMENT SHALL BE MADE)

SYSTEM LENGTH = 15.24 m

WOOD BREAKAWAY CRT POSTS — TERMINAL POSTS IN STEEL TUBES

1.905 m · 1.905 m · 1.905 m · 1.905 m · 1.905 m · 1.905 m · 1.905 m · 1.905 m

100 mm (TYPICAL)

⑬ ET-2000 GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD

⑨ CABLE ANCHOR BOX

⑩ STRUT

DO NOT ATTACH BEAM TO POST NO. 3, 5 & 7 ON ET-2000 ONLY

⑫ STEEL PLATE BEAM [SUPPLIED WITH ENERGY ABSORBING TERMINAL]

8 - 16 mm ϕ X 32 mm BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS

DO NOT ATTACH BEAM TO POST NO. 3, 5 & 7 ON ET-2000 ONLY

⑫ STEEL PLATE BEAM END PANEL [SUPPLIED WITH ENERGY ABSORBING TERMINAL]

NOTE: BEAM IS NOT ATTACHED TO POST NO. 1

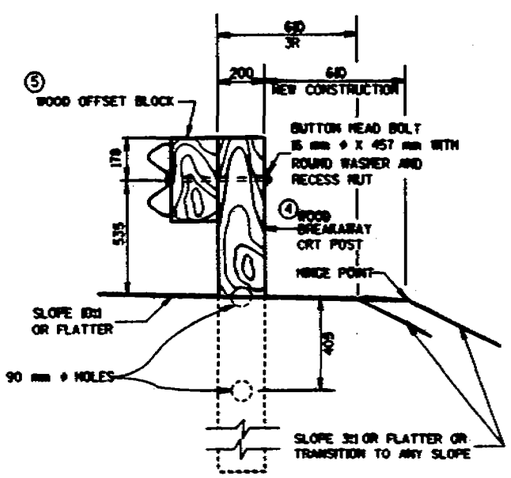
695 · 1.32 m (TYP.)

POST NO. 9 · POST NO. 8 · POST NO. 7 · POST NO. 6 · POST NO. 5 · POST NO. 4 · POST NO. 3 · POST NO. 2 · POST NO. 1

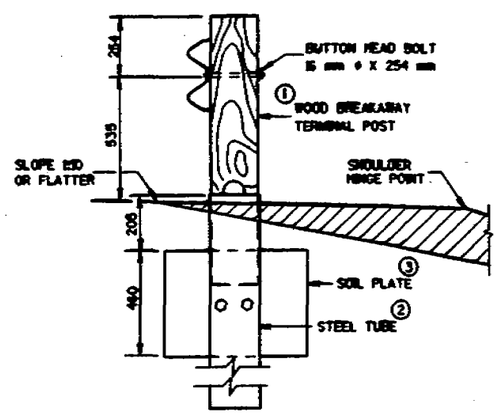
ELEVATION

BILL OF MATERIALS

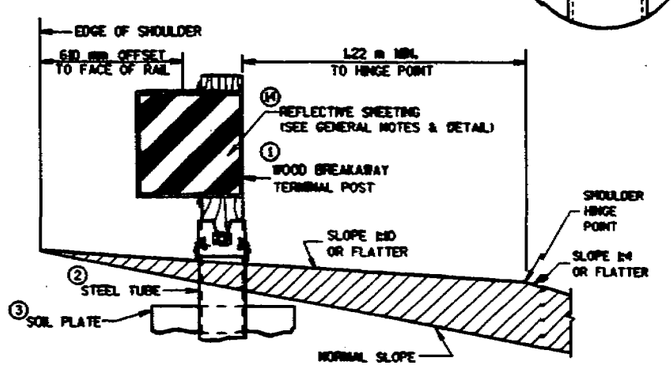
NOTE NO.	QTY.	DESCRIPTION
①	4	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
②	4	STEEL TUBE: TS 8" X 6" X 0.188", 4'-6" LONG
③	4	SOIL PLATE: 2'-0" X 1'-6" X ¼"
④	4	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	6	WOOD OFFSET BLOCKS: 6" X 8" X 1'-2"
⑥	1	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
⑦	1	BEARING PLATE
⑧	1	BCT CABLE ASSEMBLY
⑨	1	CABLE ANCHOR BOX
⑩	1	STRUT & YOKE
⑪	1	STEEL PLATE BEAM, END PANEL 12 GA. (3'-6½") LONG FOR SKT-350 & ET-2000
⑫	3	STEEL PLATE BEAM: 12 GA. (3'-6½")
⑬	1	ET-2000 GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD: AS FURNISHED BY MANUFACTURER
⑭	1	REFLECTIVE SHEETING: 18" X 18"



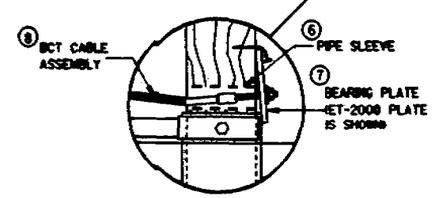
SECTION C-C
TYPICAL AT POST NOS. 5-8 INC.

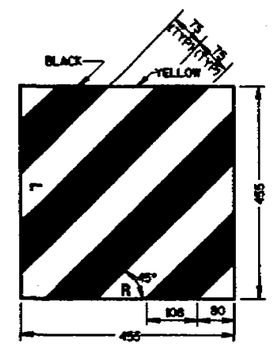


SECTION B-B
TYPICAL AT POST NO. 2



SECTION A-A



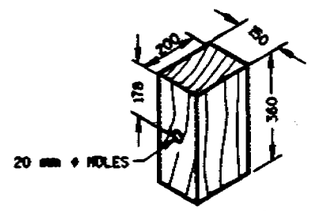


REFLECTIVE SHEETING DETAIL

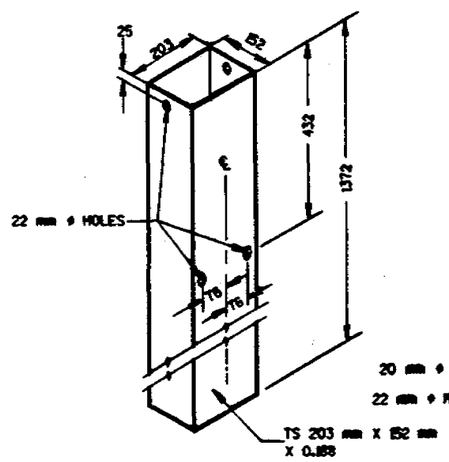
ADDENDA 3/1/99 NEW SHEET

STATE PROJECT NO: 1420-07-70	HWY: 151	COUNTY: FOND DU LAC		SHEET NO: Z.110A	M

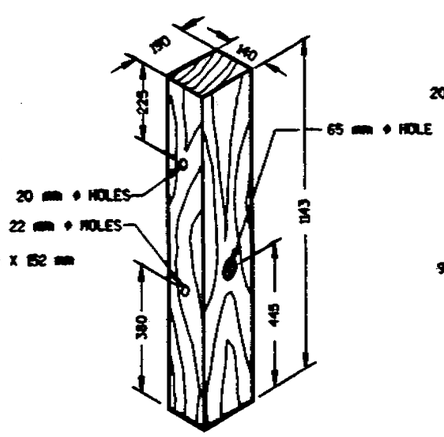
FILE NAME: LEVELS ON = 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
ORIGINATOR:
PLOT SCALE: 0.197582:1.000000
PLOT DATE: 08-JAN-1999 15:28
REV. DATE:
WisDOT: MSHT20



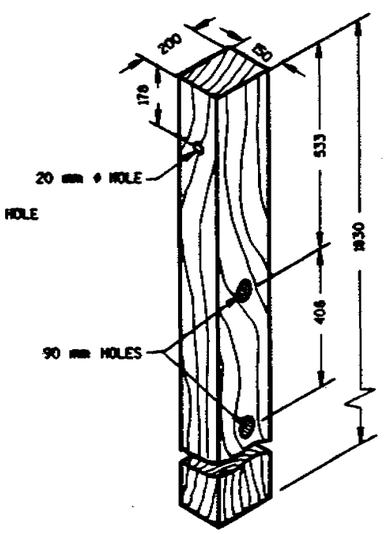
WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



STEEL TUBE
(POSTS NO. 1-4
THE STEEL TUBE SHALL CONFORM
TO REQUIREMENTS OF ASTM A500



TERMINAL POST
(POSTS NO. 1-4



CRT POST
(POSTS NO'S 5-8

WOOD BREAKAWAY POSTS

GENERAL NOTES

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

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL SHALL BE EITHER THE EXTRUDER TERMINAL (ET-2000), OR THE SEQUENTIAL KINKING TERMINAL (SKT-350). THE CONTRACTOR SHALL NOT INTERMIX PROPRIATERY PRODUCT MATERIALS.

THE "ET-2000" IS AVAILABLE FROM SYRO, INC., 2524 N. STEMMONS FREEWAY, DALLAS TEXAS 75207. TELEPHONE 1-800-835-6086 OR 1-800-644-7976

THE "SKT-350" IS AVAILABLE FROM ROAD SYSTEMS, INC., 7631 NEW CASTLE DRIVE, FRANKFORT, ILLINOIS 60423. TELEPHONE (815) 464-5917

THE ET-2000, AND SKT-350 END TERMINALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, WHICH SHALL INCLUDE HARDWARE, STEEL PLATE BEAM GUARD, POSTS, REFLECTIVE SHEETING AND INSTALLATION AS SHOWN.

REFLECTIVE SHEETING - SHALL CONFORM TO ASTM SPECIFICATION D4956-93b, REFLECTIVE SHEETING TYPE III, BACKING CLASS 4, PERFORMANCE REQUIREMENT TYPE III. AFTER THE APPROACH END OF THE STEEL PLATE BEAM GUARD INSTALLATION IS COMPLETE, CLEAN THE AREA WHERE THE REFLECTIVE SHEETING WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION. ONCE CLEAN, APPLY REFLECTIVE SHEETING DIRECTLY TO THE STEEL PLATE BEAM GUARD AS SHOWN. THE CONTRACTOR SHALL TURN OVER THE MANUFACTURERS WARRANTY FOR THE REFLECTIVE SHEETING TO THE DEPARTMENT FOR POTENTIAL DEALING WITH THE MANUFACTURER. PAYMENT OF REFLECTIVE SHEETING IS INCIDENTAL TO STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL.

WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 305 mm DIA. POST HOLE EXTENDING 510 mm DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 65 mm DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

NOTE

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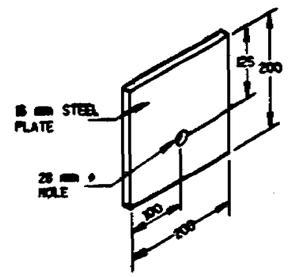
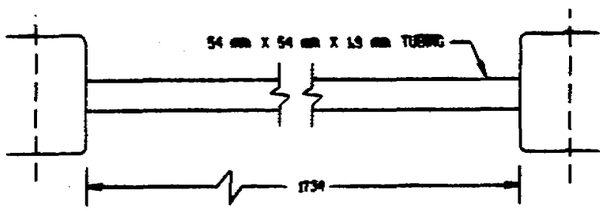
ADDENDA 3/1/99 NEW SHEET

STATE PROJECT NO: 1420-07-70	HWY: 151	COUNTY: FOND DU LAC		SHEET NO: 2110B	M

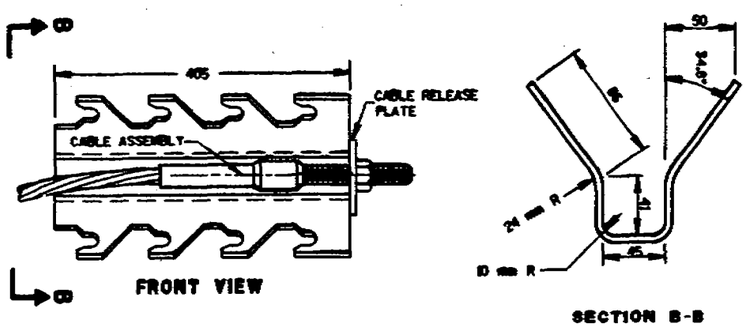
FILE NAME: LEVELS ON = 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63 PLOT DATE: 11-JAN-1999 06:49



STEEL BEARING PLATE (SKT-350)

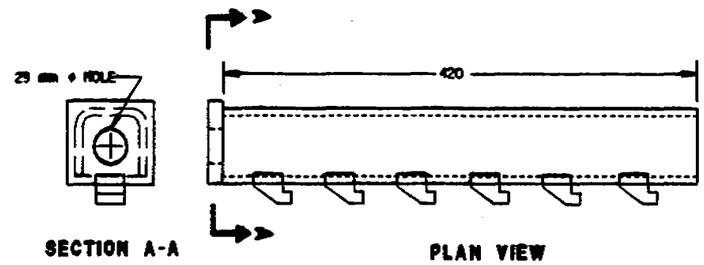


STRUT DETAIL (SKT-350)

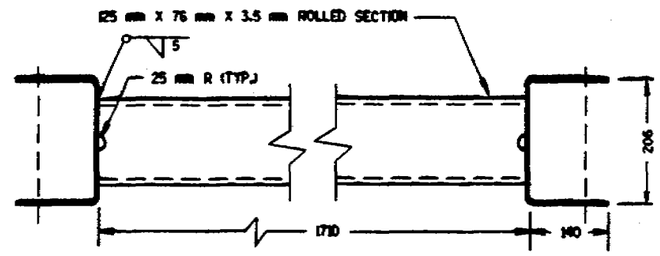


CABLE ANCHOR BOX (SKT-350)

(SKT-350)



CABLE ANCHOR BOX (ET-2000)



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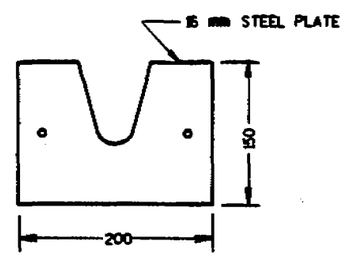
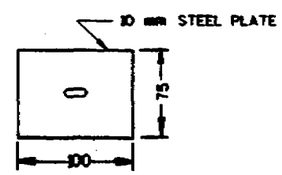
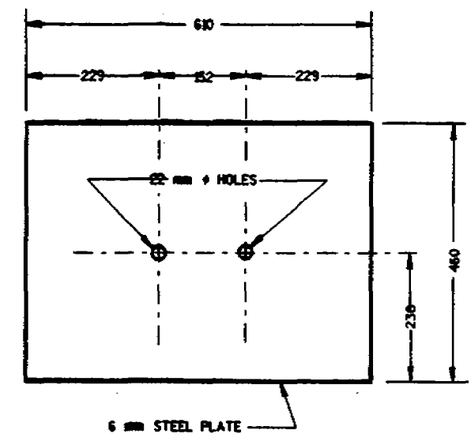


STEEL BEARING PLATE (ET-2000)



BEARING PLATE WASHER ET-2000)

(ET-2000)



SOIL PLATE (SKT-350 & ET-2000)

NOTE

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ADDENDA 3/1/99 NEW SHEET

STATE PROJECT NO: 1420-07-70	HWY: 151	COUNTY: FOND DU LAC		SHEET NO: 2.110C	M

FILE NAME: ORIGINATOR: 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 REV. DATE: PLOT SCALE: 0.0824021.000000 PLOT DATE: 11-JAN-1999 08:37