UTILITIES

GENERAL NOTES (FDM 15-1-15 PG.3)

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

TACK COAT HAS BEEN ESTIMATED AT AN APPLICATION RATE OF 0.025 GALLONS PER SOUARE YARD AND SHALL BE PLACED BETWEEN LAYERS OF ASPHALTIC CONCRETE PAVEMENT AND EXISTING ASPHALTIC PAVEMENT.

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

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS SHALL BE FERTILIZED, SEEDED AND MULCHED.

THE 5 1/2-INCH ASPHALTIC PAVEMENT FOR STH 33 SHALL CONSIST OF AN 1 1/2-INCH SURFACE COURSE OF ASPHALTIC CONCRETE PAVEMENT, TYPE HV AND TWO 2-INCH LAYERS BINDER COURSE OF ASPHALTIC CONCRETE PAVEMENT, TYPE HV.

THE 4 1/2 INCH ASPHALTIC PAVEMENT FOR THE BYPASS SHALL CONSIST OF AN 1 1/2-INCH SURFACE COURSE OF ASPHALTIC CONCRETE PAVEMENT, TYPE MV AND TWO 1 1/2-INCH BINDER COURSE OF ASPHALTIC CONCRETE PAVEMENT, TYPE MV.

WHEN THE QUANTITY OF THE ITEMS OF CRUSHED AGGREGATE BASE COURSE AND ASPHALTIC CONCRETE PAVEMENT IS MEASURED BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE FACTURER.

THE CONTRACT SHALL INCLUDE THE BACKFILL FOR THE AREA BEHIND THE CURB AND GUTTER.

CURB AND GUTTER JOINT SPACING SHALL BE 20 FEET UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

CURB AND GUTTER GRADES GIVEN ARE ON THE FLANGE LINE.

ALL RADII DIMENSIONS FOR 36-INCH CURB AND GUTTER ARE TO FACE.

PRIOR TO PLACEMENT OF STEEL PLATE BEAM GUARD, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED.

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS SUPERELEVATION WHEN SUPERELEVATION IS GREATER THAN 0.04%. IF SUPERELEVATION IS LESS THAN OR EQUAL TO 0.04%, THEN THE LOW SIDE SHOULDER SLOPE IS 0.04%, HIGH SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS SUPERELEVATION.

THE EARTHWORK YARDAGE IS BALANCED BY EXPANDING THE FILL EXPANSION OF FILL WHICH IS ESTIMATED AT 25%.

TEMPORARY STORAGE OF UNCLASSIFIED EXCAVATION IN WETLANDS WILL NOT BE PERMITTED.

STANDARD ABBREVIATIONS

HYD. HYDRANT
N.C. NORMAL CROWN
SE SUPERELEVATION
T.L.E. TEMPORARY LIMITED EASEMENT
P.S.D. PASSING SIGHT DISTANCE

STANDARD DETAIL DRAWINGS

1-11 CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES CONCRETE SURFACE DRAIN & ASPHALTIC FLUME 8D CURB RAMPS 5-8 TYPICAL INSTALLATIONS OF EROSION BALES 8-1 SILT FENCE 9-3 1-10g APRON ENDWALLS FOR CULVERT PIPE 3-4 NAME PLATE (STRUCTURES) 7-8g TEMPORARY PRECAST CONCRETE BARRIER 14B PRECAST CONCRETE BARRIER END SECTION AND 7-8b PORTABLE CRASH CUSHION 15-10 CLASS "A" STEEL PLATE BEAM GUARD, INSTALLATION 14B & ELEMENTS 16-1g CLASS "A" STEEL PLATE BEAM GUARD END TREATMENT WITH ANCHORAGE, TYPE 1 & 2 16-Ab CLASS "A" STEEL PLATE BEAM GUARD END TREATMENT WITH ANCHORAGE, TYPE 1 & 2 20-20 STEEL THRIE BEAM STRUCTURE APPROACH 20-2d STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILINGS TYPES "F" & "W"

8-50 PAYEMENT MARKING (MAINLINE & INTERSECTIONS) TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

18-10 CLASS "" STEEL PLATE BEAM GUARD (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)

UTILITIES

SCHODRON, KEN WISCONSIN ELECTRIC POWER CO. 920 INDIANA AVE. P.O. BOX 119 WEST BEND. WI 53095-0119 (414) 338-7623

ALBERS, DIANA GTE-WISCONSIN 107 PLEASANTVIEW DR. PLYMOUTH, WI 53073-0901 414-893-7462

KIM. IN SOOK

WISCONSIN GAS CO.

626 E. WISCONSIN AVE.

MILWALKEE, WI 53202 414-291-6730 WASTE WATER TREATMENT FACILITY ALLENTON, WI 53002 414-629-5581

ALLENTON SANITARY DISTRICT

ALLENTON, WI 53002-0293

ALBERS, LAMONT

P.O. BOX 293

414-629-5761

835 NORTH HWY. W

BOTHE, LINDA STAR CABLEVISION 1021 S. MAIN, P.O. BOX 241 WEST BEND, WI 53095 414-338-5680



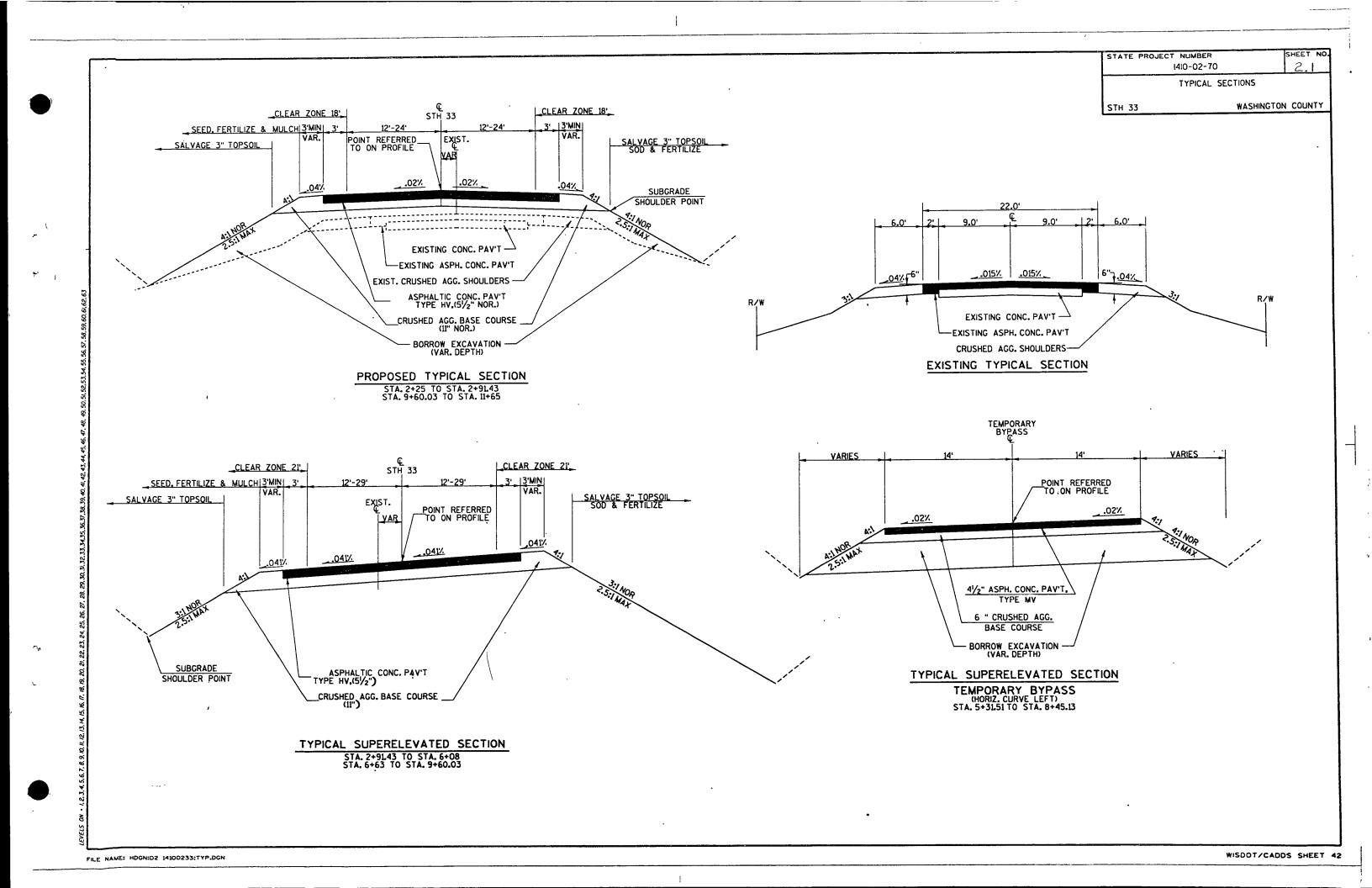
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

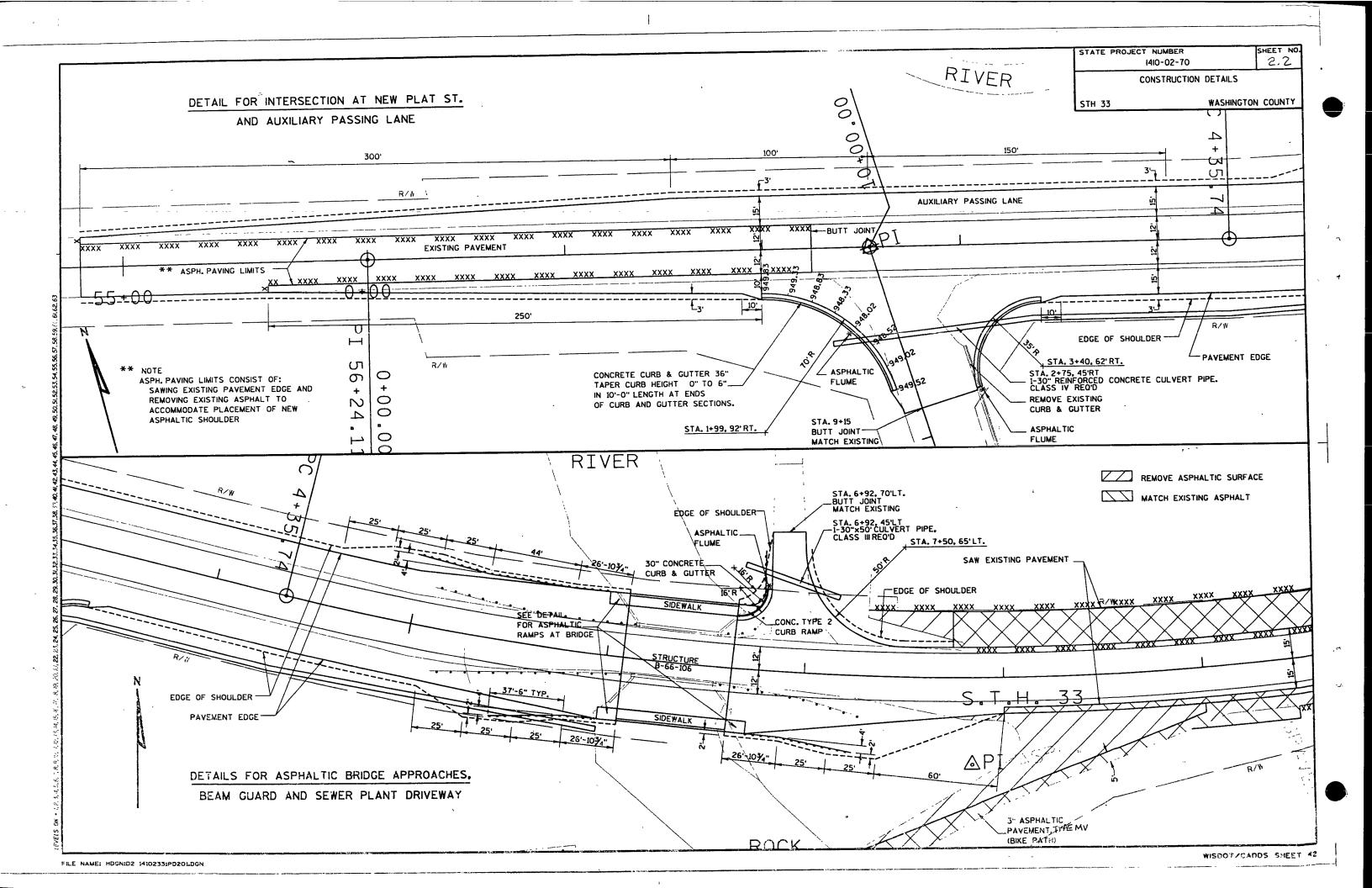
CALL DIGGERS HOTLINE

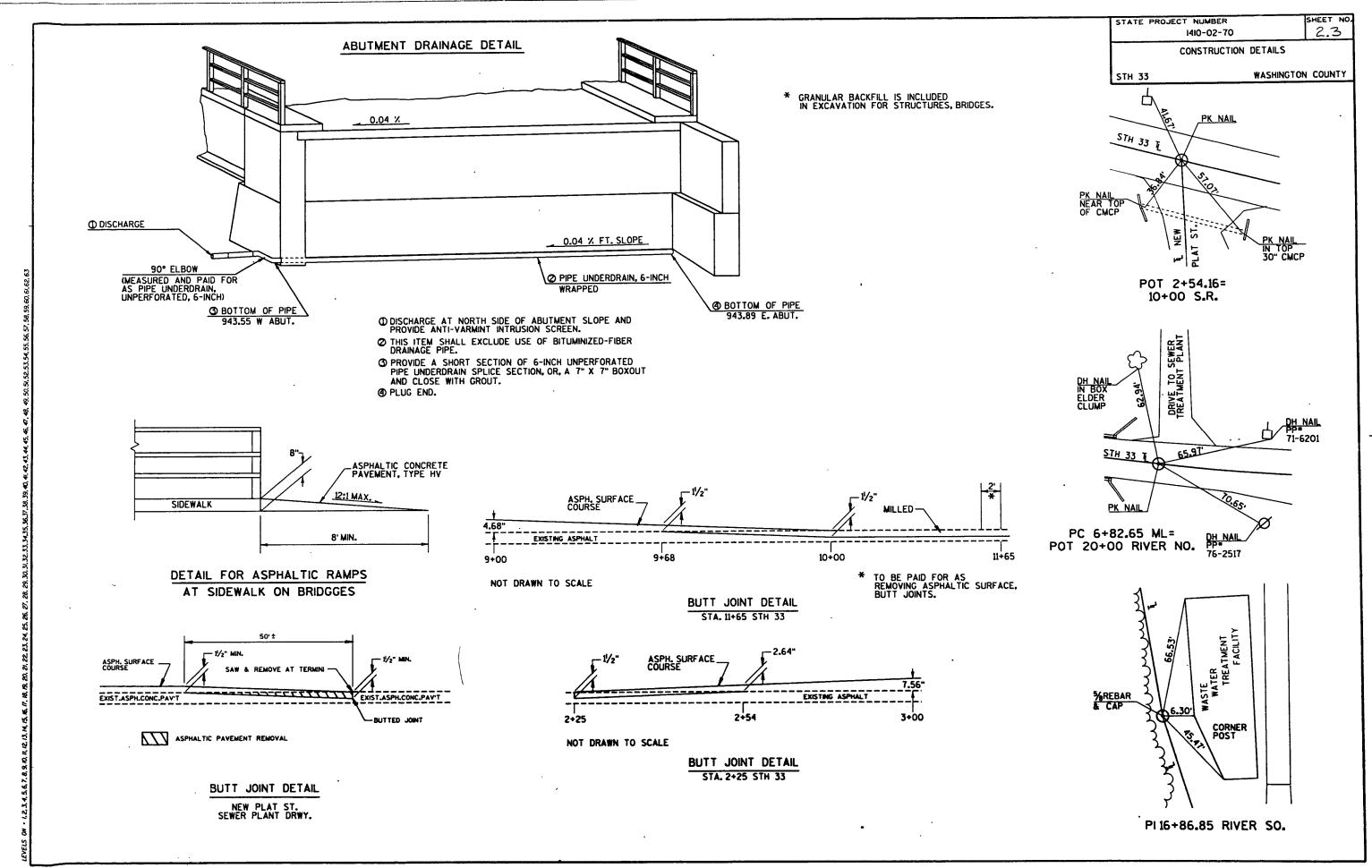
TOLL FREE 1-800-242-8511
MILWAUKEE AREA (414) 259-1181
TELEFAX (414) 259-0947
TDD (For hearing impaired) 1-800-542-2289

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

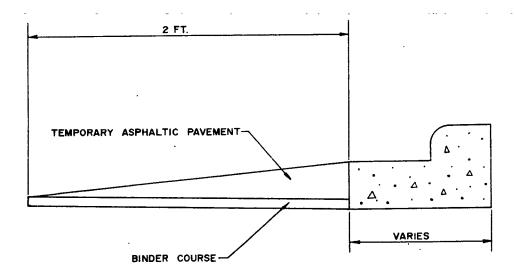
T Y P E S E C T





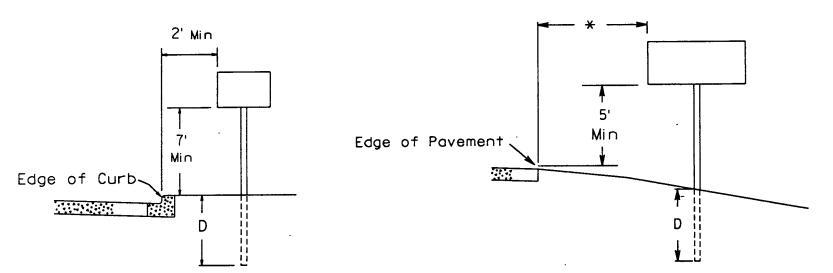


$\neg \top$	STATE PROJECT NUMBER			SHEET NO.	
		1410 -02-70)	2.	4
		CONSTRUCTION	DETAIL		
s	T.H . 33		WASHING	TON	CO.



TEMPORARY CURB & GUTTER WEDGE DETAIL

RURAL AREA

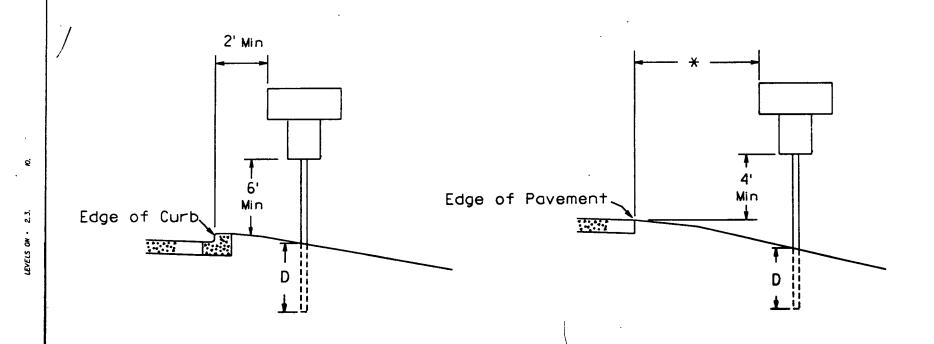


GENERAL NOTES

1. Sign assemblies wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. See plate A4-4 for typical installations.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'



* 12 feet minimum from edge of pavement. Where there is a paved shoulder, 6' minimum from edge of paved shoulder, but at least 12 feet from edge of pavement.

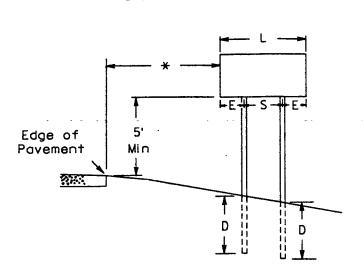
DATE	DRAWN_	<u>9-12-91</u>	DATE	REDRAWN	
DATE	REVISED	1-14	-92		
Ĺ					

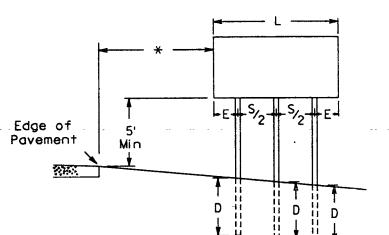
TYPICAL INSTALLATION OF TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

URBAN AREA

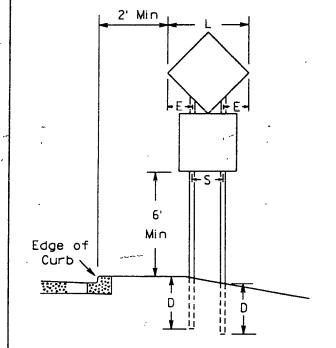
RURAL AREA

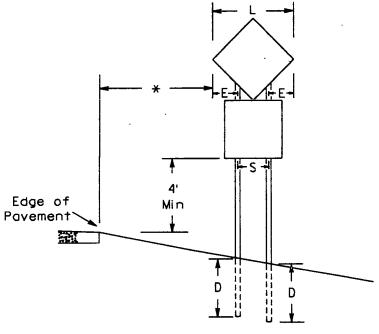




GENERAL NOTES

- 1. For 3 post installations, post spacing is S/2 and S must be greater than 7'-0"
- 2. For 4 post installations, post spacing is S/3 and S must be greater than 10'-6"





* 12 feet minimum from edge of pavement.
Where there is a paved shoulder, 6'
minimum from edge of paved shoulder, but at
least 12 feet from edge of pavement.

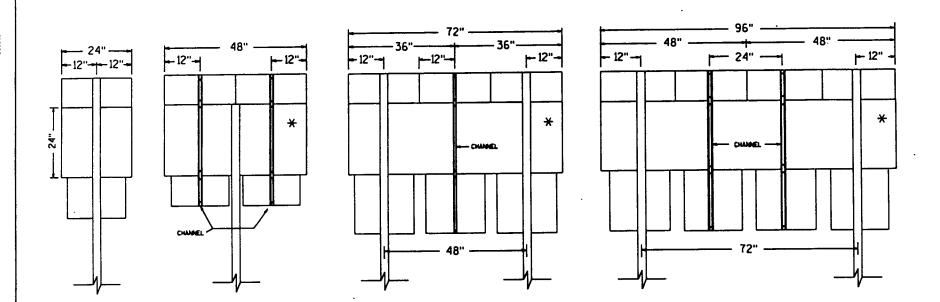
DIAMOND SHAPED SIGNS		
L	S	E
Less than 60"	20"	L/2 - 10
60"72"	32"	L/2 - 16
Greater than 72"	3 L/5	L/5

SIGN SHAPE OTHER THAN DIAMOND (Two Post Installations)		
L	S	E,
Less than 60"	L-24"	12"
60" or more	3 L/5	L/5

POST EMBEDMENT DEPTH

Area of Sign .	
Installation	D
(Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

DATE DRAWN 6-3-87 DATE REDRAWN 10-1-91
DATE REVISED
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Situry. Vyuseli
DATE 11/20/92 PLATE NO. A4-4.3



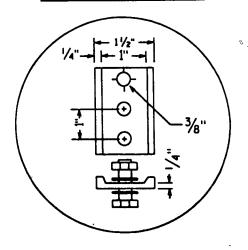
CHANNEL HARDWARE:

Aluminum Sign components: -1/4" $\times \frac{3}{4}$ " bolt and $\frac{1}{4}$ " flat washers Plywood Sign Components: -1/4" $\times 1\frac{1}{4}$ " bolt and $\frac{1}{4}$ " flat washers

NOTES;

- 1. Post spacing shall be according to this detail but post embedment depth shall be in accordance with A4-4.
- 2. Channel material shall be as specified in Section 633 of Std. Specs. and weight shall be approx. 1.4 lbs/ft.
- 3. Base material for a multiple marker head panel (*) shall be one piece high density overlay plywood. All other materials within the assembly can be either plywood or aluminum.





DATE DRAWN 6-3-87 DATE REDRAWN 10-3-91

DATE REVISED

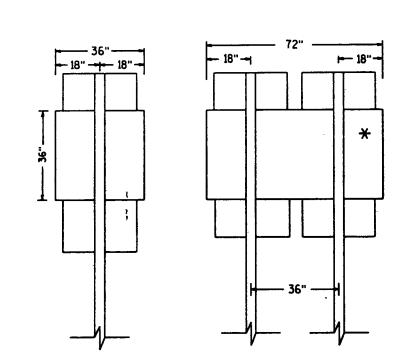
TYPICAL PANEL INSTALLATION

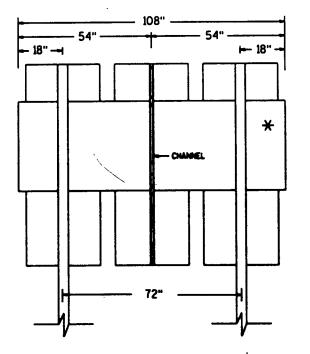
FOR J TYPE ASSEMBLIES

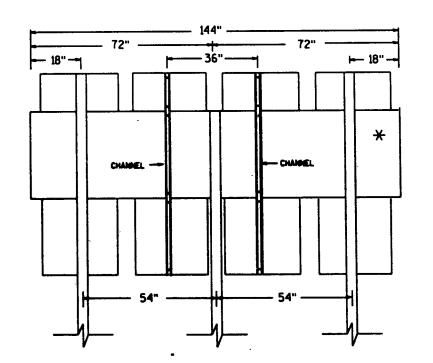
WISCONSIN DEPT OF TRANSPORTATION

State Troffic Engineer
E 11/5/9/ PLATE NO. A4-5.3

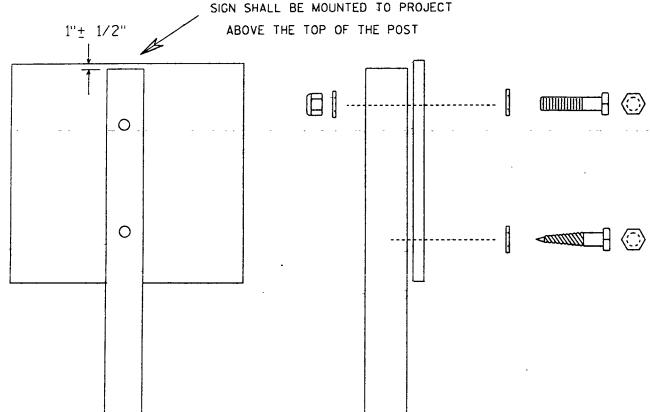
WISDOT/CADDS SHEET 42







58 59



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
- b. Cadmium plated in accordance with ASTM Designation: B 766 TYPE 3, Class 12, or
- c. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

LAG SCREWS - 3/8" X 3"

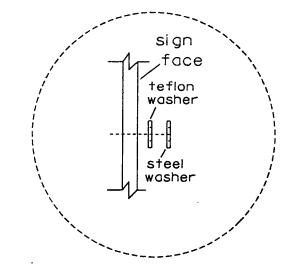
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

WASHERS - 1" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL for signs 24x24 and smaller.

1-1/4" 0.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL for signs 24x30 to 36x48.

1-1/2" O.D. X γ_{16} " I.D. X γ_{16} " STEEL for signs 48x48 and larger.

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 TEFLON for all Type H signs.



Washer Placement when Sign Has Type H Face

DATE DRAWN 1-29-92 DATE REDRAWN

ATTACUM

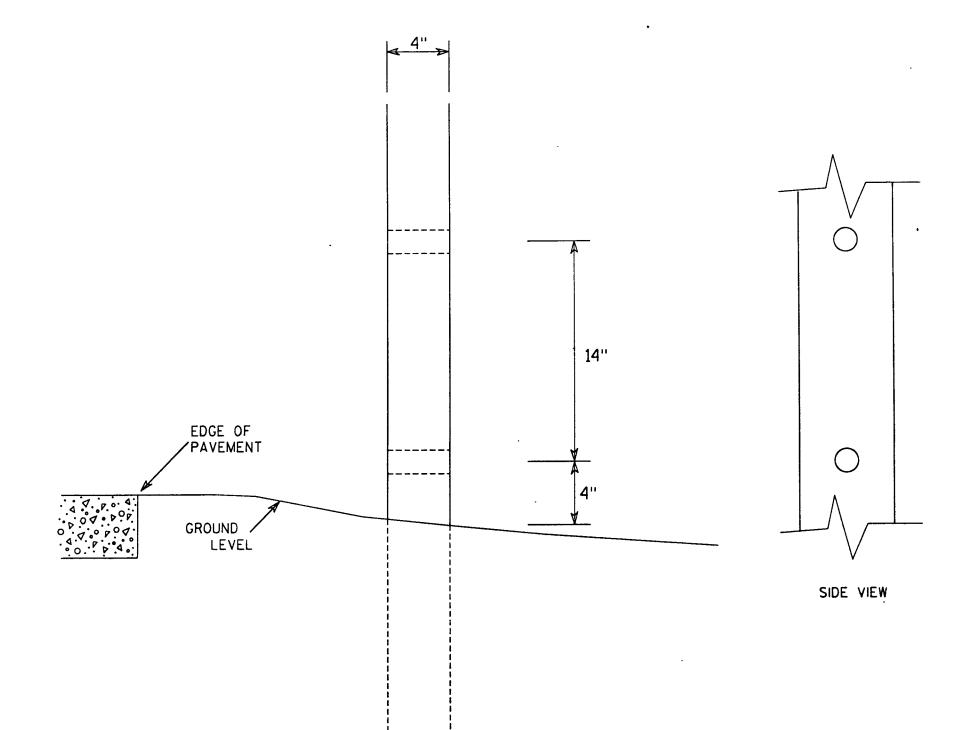
ATTACHMENT OF SIGNS TO WOOD POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 2-/-92

PLATE NO. 44-8.2



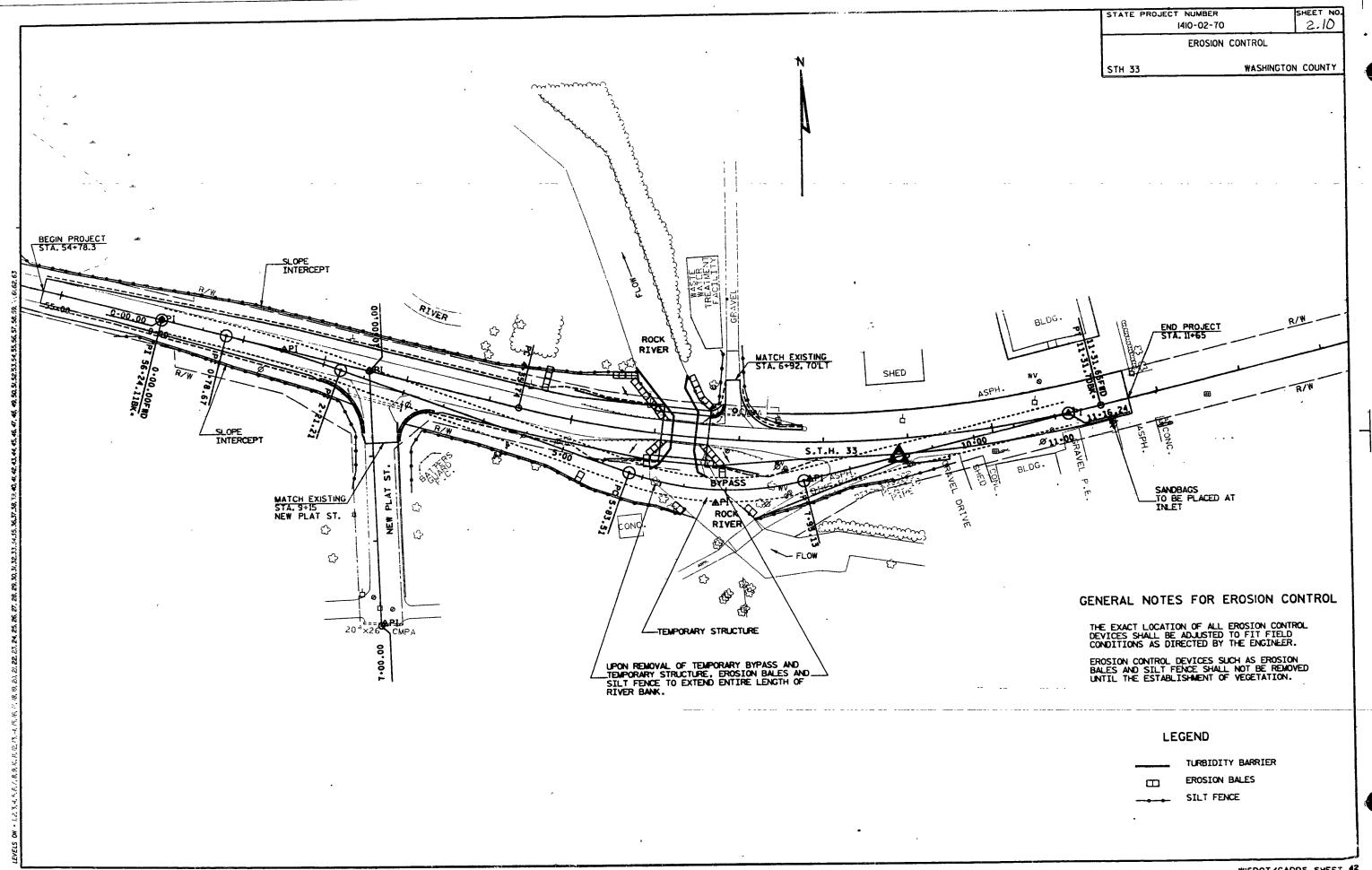
GENERAL NOTES

1. All 4x6 Wood Posts shall be modified by having two $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

DATE DRAWN 11-1-91 DATE REDRAWN DATE REVISED

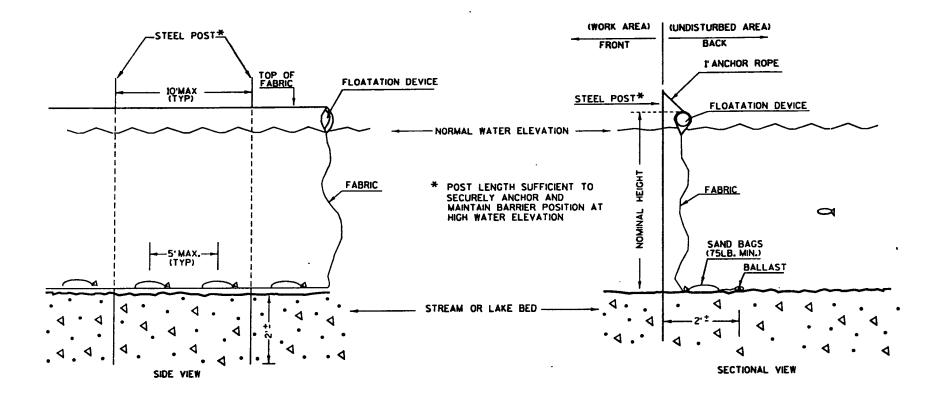
4 X 6 WOOD POST MODIFICATIONS

DATE 11/5/9.

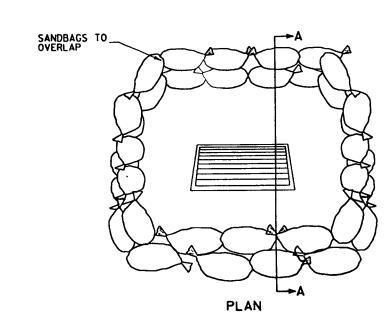


STH 33

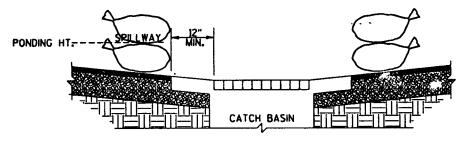
WASHINGTON COUNTY



TURBIDITY BARRIER



SANDBAGS SHALL BE MADE OF WOVEN • FABRIC

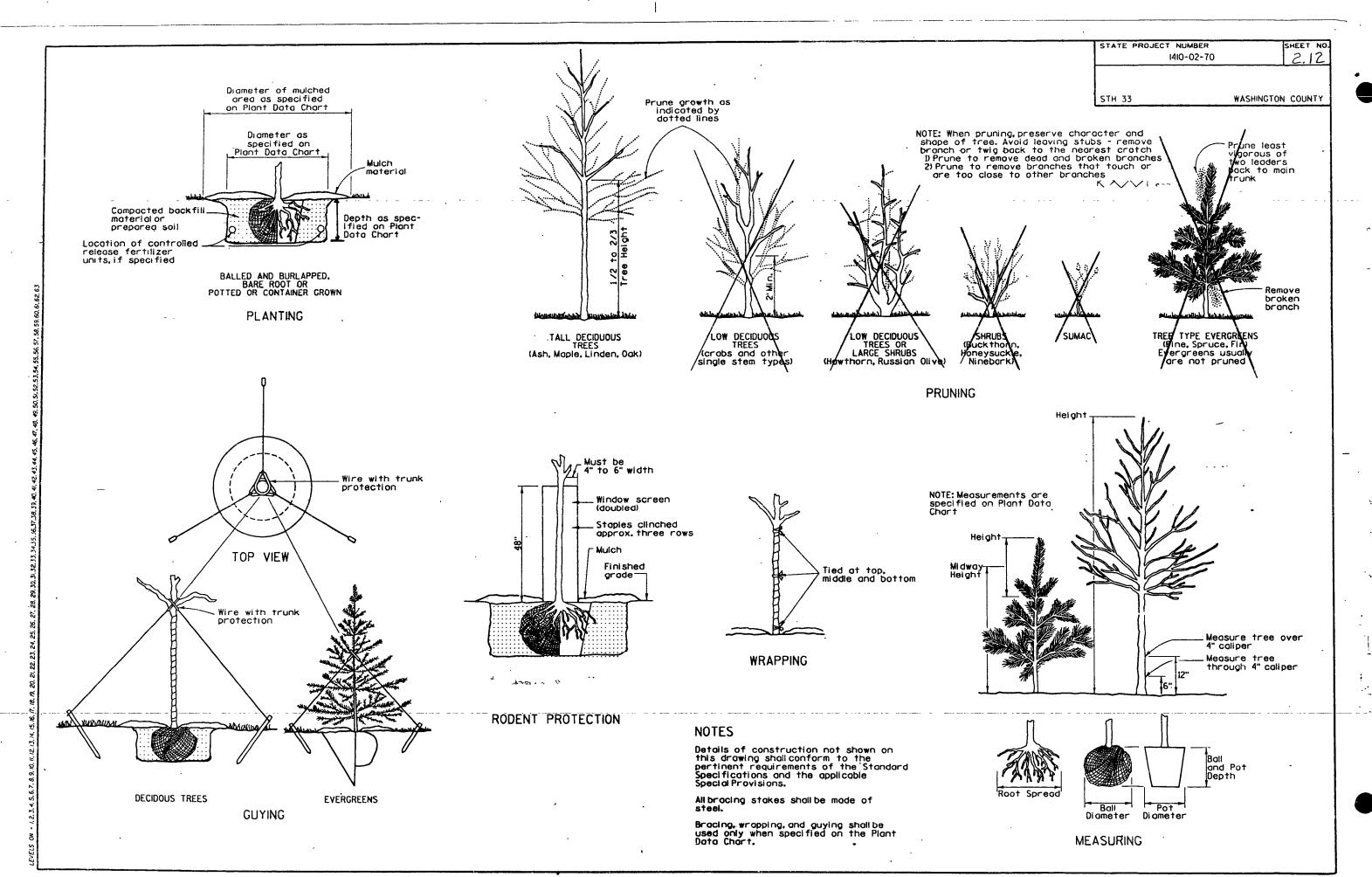


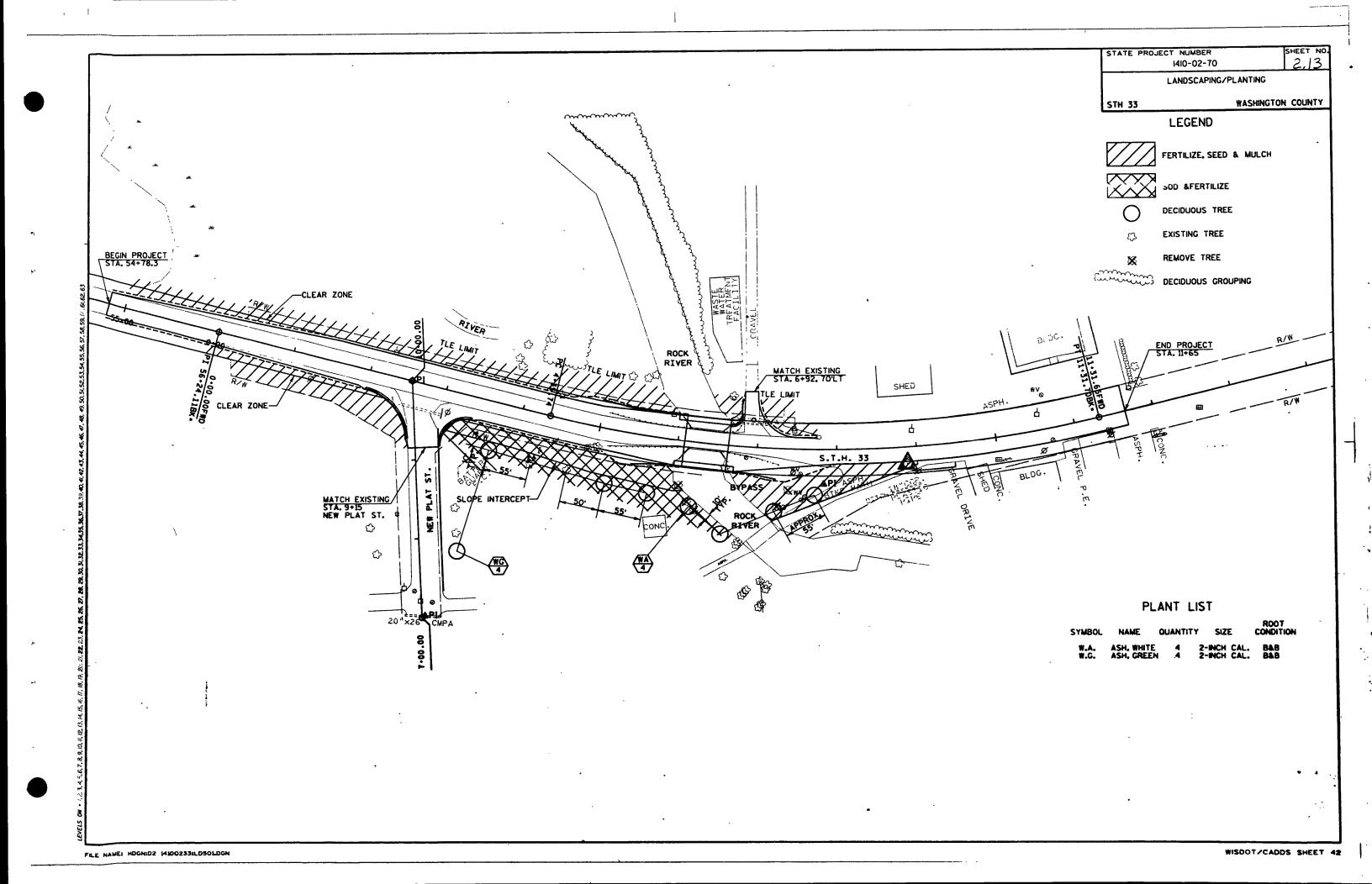
SECTION A-A

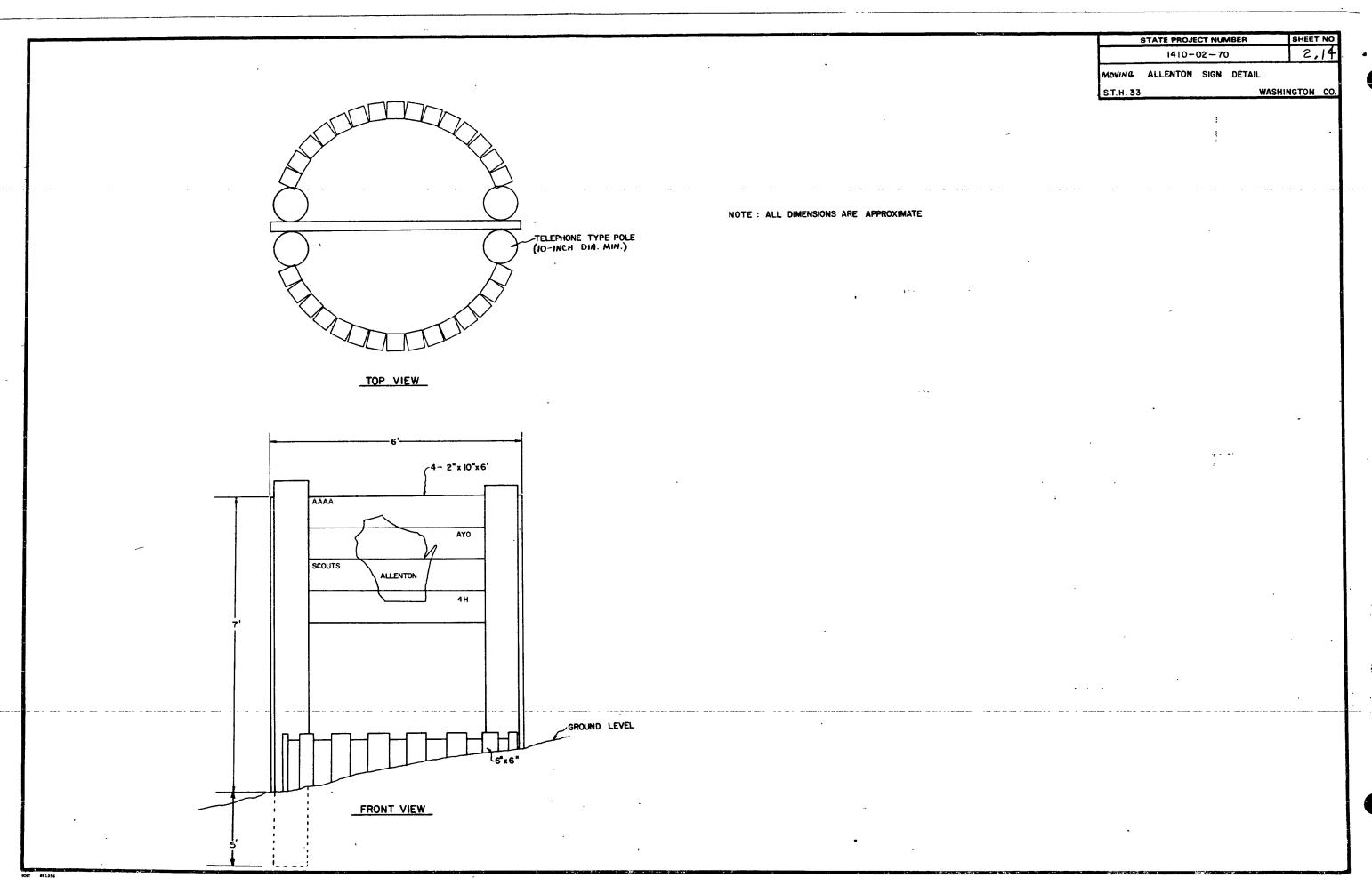
NOTES:

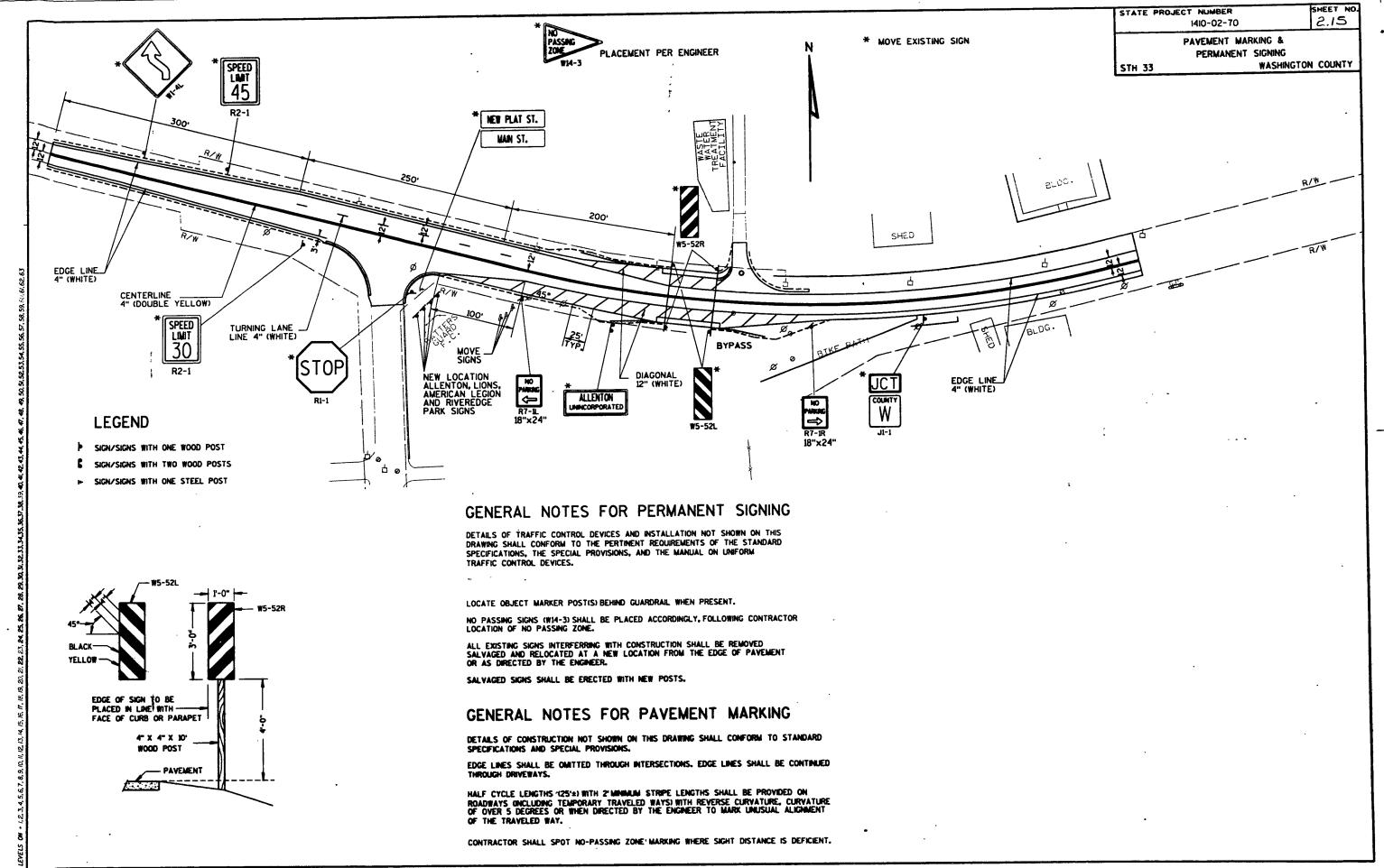
- 1. SANDBAGS SHALL BE WOVEN . ! FABRIC.
- 2. CONSTRUCT ON GENTLY SLOPING STREETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPERATE OUT OF SUSPENSION.
- 3. LEAVE A GAP OF ONE BAG IN THE MIDDLE OF THE TOP ROW OF BAGS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN CURB HEIGHT AND SUFFICIENT IN SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
- 4. PLACE 2 LAYERS OF SANDBAGS, OVER LAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS. FILL BAG WITH 3/4" DRAIN ROCK OR 1/4" PEA GRAVEL.
- 5. INSPECT AND REPAIR FILTERS AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN ONE HALF OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE.
- 6. SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.

INLET
SEDIMENT BARRIER
(SANDBAG TYPE)





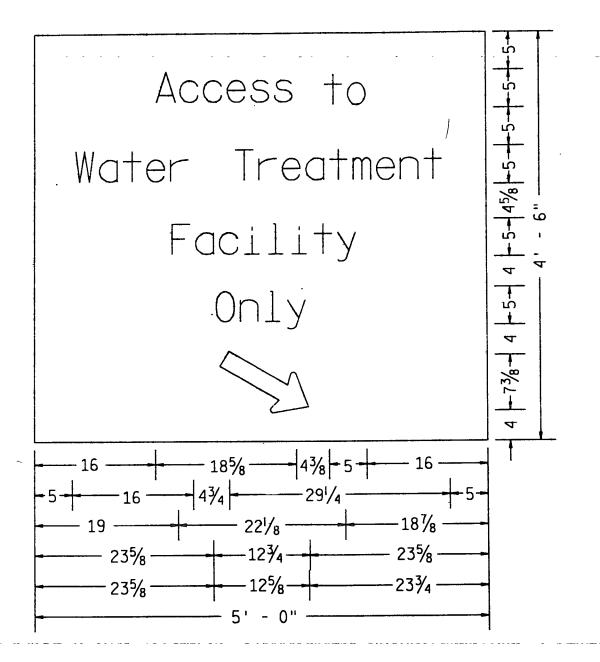




STATE PROJECT NUMBER
1410-02-70

FIXED MESSAGE
CONSTRUCTION SIGN
S.T.H. 33

WASHINGTON COUNTY



FIXED MESSAGE SIGNS

NOTES:

- 1. ALL SIGNS TO HAVE STANDARD REFLECTIVE SHEETING REFERENCE WISDOT STANDARD SPEC FOR ROAD AND BRIDGE CONSTRUCTION.
- 2. SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 637.2.1.2. MESSAGE SHALL BE NON-REFLECTIVE ON AN ORANGE REFLECTIVE BACKGROUND.
- 3. CONTRACTOR SHALL LOCATE SIGNS IN FIELD BUT OBTAIN APPORVAL OF LOCATION FROM TRAFFIC CONTROL SECTION PRIOR TO PLACEMENT.
- 4. SIGNS SHALL BE IN PLACE 10 DAYS PRIOR TO CONSTRUCTION.
- 5. SIGNS ON THIS SHEET SHALL BE PAID UNDER "FIXED MESSAGE SIGNS".
- 6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING.
- 7. FIXED MESSAGE SIGNS SHALL BE: SERIES "C"
- 8. SIGNS MOUNTED ON WOODEN POSTS SHALL HAVE (4"X6") SUPPORTS.

