

GRE

FEB 2015

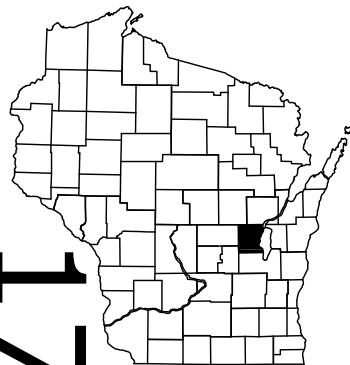
PROJECT ID: 1517-75-82
WITH: N/A

COUNTY: WINNEBAGO

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = 38



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

USH 10 - USH 10/STH 441

COUNTY CB - ONEIDA STREET

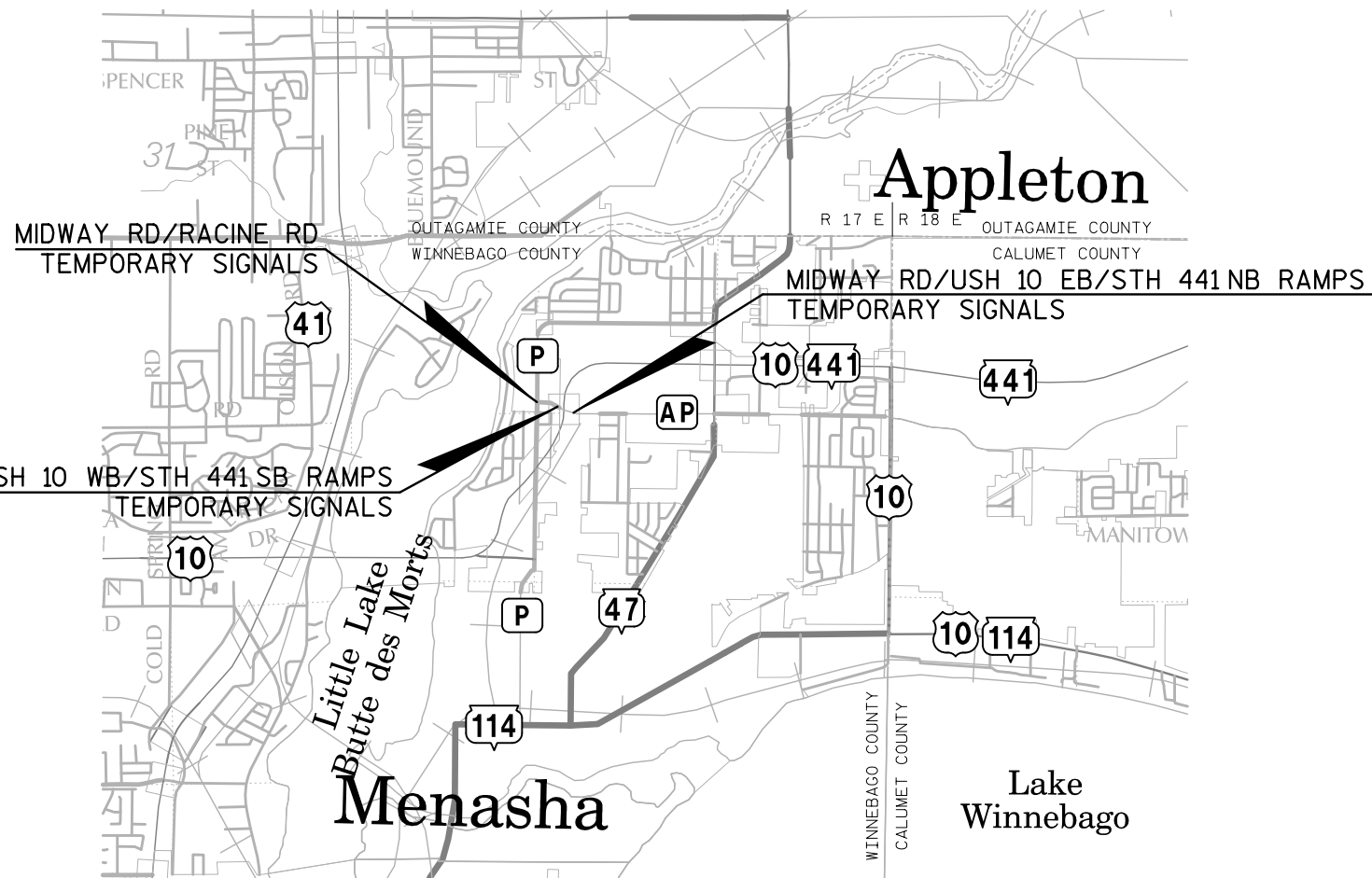
LOCAL STREET

WINNEBAGO COUNTY

MIDWAY ROAD TMP

STATE PROJECT NUMBER
1517-75-82

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1517-75-82	WISC 2015082	1



CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	////
PROPERTY LINE	---
LOT LINE	- - - -
LIMITED HIGHWAY EASEMENT	L---
EXISTING RIGHT OF WAY	=====
PROPOSED OR NEW R/W LINE	=====
SLOPE INTERCEPT	- - - - -
REFERENCE LINE	=====
EXISTING CULVERT	- - - - -
PROPOSED CULVERT (Box or Pipe)	[]
COMBUSTIBLE FLUIDS	CAUTION
MARSH AREA	[]
WOODED OR SHRUB AREA	[]

PROFILE	
GRADE LINE	=====
ORIGINAL GROUND	- - - - -
MARSH OR ROCK PROFILE (To be noted as such)	ROCK
SPECIAL DITCH	LABEL
GRADE ELEVATION	95.36
CULVERT (Profile View)	[]
UTILITIES	
ELECTRIC	E
FIBER OPTIC	FO
GAS	G
SANITARY SEWER	SAN
STORM SEWER	SS
TELEPHONE	T
WATER	W
UTILITY PEDESTAL	[]
POWER POLE	[]
TELEPHONE POLE	[]

LAYOUT
SCALE 0 1/2 MI.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD29).
COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WINNEBAGO COUNTY, NAD83 (1991).

ORIGINAL PLANS PREPARED BY

URS
342 North Water Street
7th Floor
Milwaukee, WI 53202
(414) 831-4100

WISCONSIN
NICHOLAS J BECKER
E-40803
BROOKFIELD WISCONSIN
PROFESSIONAL ENGINEER
7/15/2014
(Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor WISDOT/ KAPUR
Designer URS
Project Manager SCOTT EBEL
Regional Examiner
Regional Supervisor CHAD DEGRAVE

APPROVED FOR THE DEPARTMENT
DATE: 7/15/14
(Signature)

E



Dial  or (800) 242-8511

www.DiggersHotline.com

UTILITY CONTACTS

AMERICAN TRANSMISSION COMPANY

MR. MIKE OLSEN
801 O'KEEFE RD
DE PERE, WI 54115
(920) 338-6582
MOBILE: (920) 660-2390
MOLSEN@ATCLLC.COM

AT&T LEGACY

MR. WILLIAM KOENIG
c/o JMC ENGINEERS & ASSOCIATES, INC.
P.O. BOX 244
LAKE MILLS, WI 53551
(608) 628-0575
JMC140@FRONTIER.COM

AT&T WISCONSIN

MR. VINCENT LEBRUN
221 W. WASHINGTON ST 4TH FLOOR
APPLETON, WI 54911
(920) 735-3076
VL1253@ATT.COM

SPRINT

MR. JAMES BURTON
c/o ERICSSON INC.
400W GRAND AVE
ELMHURST, IL 60126
MOBILE: (708) 955-6659
JAMES.BURTON@ERICSSON.COM

TOWN OF MENASHA - ELECTRIC

MR. RANDY GALLOW
STREET DEPARTMENT
2000 MUNICIPAL DR
NEENAH, WI 54956
(920) 720-7110

TOWN OF MENASHA - SANITARY SEWER

MR. STEVEN LAABS
UTILITY DISTRICT
2340 AMERICAN DR
NEENAH, WI 54956
(920) 739-5120
STEVEL@TOWN-MENASHA.COM

TOWN OF MENASHA - WATER

MR. JEFF ROTH
UTILITY DISTRICT
2000 MUNICIPAL DR
NEENAH, WI 54956
(920) 720-7100
JEFFR@TOWN-MENASHA.COM

TDS METROCOM

MR. STEVE JAKUBIEC
10 COLLEGE AVE STE 218A
APPLETON, WI 54911
(920) 882-4166
MOBILE: (920) 562-7221
STEVE.JAKUBIEC@TDS TELECOM.COM

TIME WARNER CABLE

MR. VINCE ALBIN
3520 DESTINATION DR
APPLETON, WI 54915
(920) 831-9249
MOBILE: (920) 378-0444
VINCE.ALBIN@TWCABLE.COM

WE ENERGIES - ELECTRIC

MR. JIM QUINN
P.O. BOX 1699
APPLETON, WI 54912
(920) 380-3401
JIM.QUINN@WE-ENERGIES.COM

WE ENERGIES - ELECTRIC AND GAS

MR. DAN SANDE
333 W EVERETT ST A299
MILWAUKEE, WI 53203
(414) 221-4578
DAN.SANDE@WE-ENERGIES.COM

WE ENERGIES - GAS

MR. KEN VAN OSS
P.O. BOX 1699
APPLETON, WI 54912
(920) 380-3318

WISCONSIN CENTRAL LTD CONTACTS

RAILROAD FLAGGING CONTACT

MARY ELLEN CARMODY
2800 LIVERNOIS ROAD, SUITE 330
TROY, MI 48083
OFFICE: (248) 740-6227
FAX: (248) 740-6036
MARY.ELLEN.CARMODY@CN.CA

MAIN RAILROAD CONTACT

JACKIE MACEWICZ
MANAGER PUBLIC WORKS
1625 DEPOT STREET
STEVENS POINT, WI 54481
OFFICE: (715) 345-2503
FAX: (715) 345-2507
JACKIE.MACEWICZ@CN.CA

24 HOUR EMERGENCY RAILROAD SIGNAL

1-800-616-3432

CALL BEFORE YOU DIG

WISCONSIN CENTRAL LTD IS NOT PART OF DIGGERS HOTLINE
CALL CHRISTINE GRZESIAK, (715) 345-2506, WHEN DIGGING
ON RAILROAD R/W

DNR AREA LIAISON

JAY SCHIEFELBEIN
DEPARTMENT OF NATURAL RESOURCES
2984 SHAWANO AVE
GREEN BAY, WI
(920) 662-5407

US ARMY CORP OF ENGINEERS

ANN NYE
OLD FORT SQUARE
211 N. BROADWAY, STE 221
GREEN BAY, WI 54303
(920) 448-2824
ANN.M.NYE@USACE.ARMY.MIL

**WINNEBAGO COUNTY
HIGHWAY COMMISSIONER**

ERNIE WINTERS
901 WEST COUNTY ROAD Y
P.O. BOX 2764
OSHKOSH, WI 54903
(920) 232-1700

DESIGN CONTACTS

SCOTT EBEL
WISDOT - NE REGION
1940 WEST MASON STREET
GREEN BAY, WI 54303
920-492-2240
SCOTT.EBEL@DOT.WI.GOV

NICHOLAS BECKER
URS CORPORATION
342 N. WATER ST, 7TH FLOOR
MILWAUKEE, WI 53202
414-831-4122

MATTHEW LETOURNEAU
URS CORPORATION
342 N. WATER ST, 7TH FLOOR
MILWAUKEE, WI 53202
414-831-4138

COUNTY SURVEYOR

DIANE CULVER
WINNEBAGO COUNTY PLANNING AND ZONING DEPT
PO BOX 2808
OSHKOSH, WI 54903
920-232-3335
DCULVER@COWINNEBAGO.WI.US

GENERAL NOTES

THE CONTRACTOR SHALL CONTACT THE UTILITIES AND DIGGERS HOTLINE TO LOCATE AND FIELD VERIFY UTILITIES PRIOR TO THE START OF WORK. 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. ANY LOCAL, MUNICIPAL OR OTHER UTILITY THAT IS NOT A MEMBER OF DIGGERS HOTLINE SHALL BE CONTACTED SEPERATELY.

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

RIGHT OF WAY LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.

PROTECT INLETS WITH PROPER INLET PROTECTION AT LOCATIONS EXHIBITING RISK OF BEING IMPACTED BY CONSTRUCTION OPERATIONS, OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY ANY OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT THE CONTRACTOR'S EXPENSE.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS, FLOODWAY OR FLOODPLAIN OF ANY WATERWAY.

PLACE SALVAGED TOPSOIL IN ALL DISTURBED AREAS AS DESIGNATED BY THE ENGINEER IMMEDIATELY AFTER INSTALLATION OF TEMPORRAY TRAFFIC SIGNALS HAS BEEN COMPLETED. SEE, MULCH AND FERTILIZE OR SOD AND FERTILIZE ALL AREAS 5 DAYS AFTER PLACEMENT OF SALVAGED TOPSOIL. RESTORATION ITEMS ARE INCIDENTAL TO THE CONTRACT

FILL AND COMPACT ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES WITH GRANULAR BACKFILL. BACKFILLING IS INCIDENTAL TO CORRESPONDING ABANDONMENT OR REMOVAL ITEM.

CONTRACTORS SHALL FIELD VERIFY UTILITY DEPTHS AT ALL PROPOSED CONNECTION POINTS TO THE EXISTING SYSTEMS.

FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.

THE EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER.

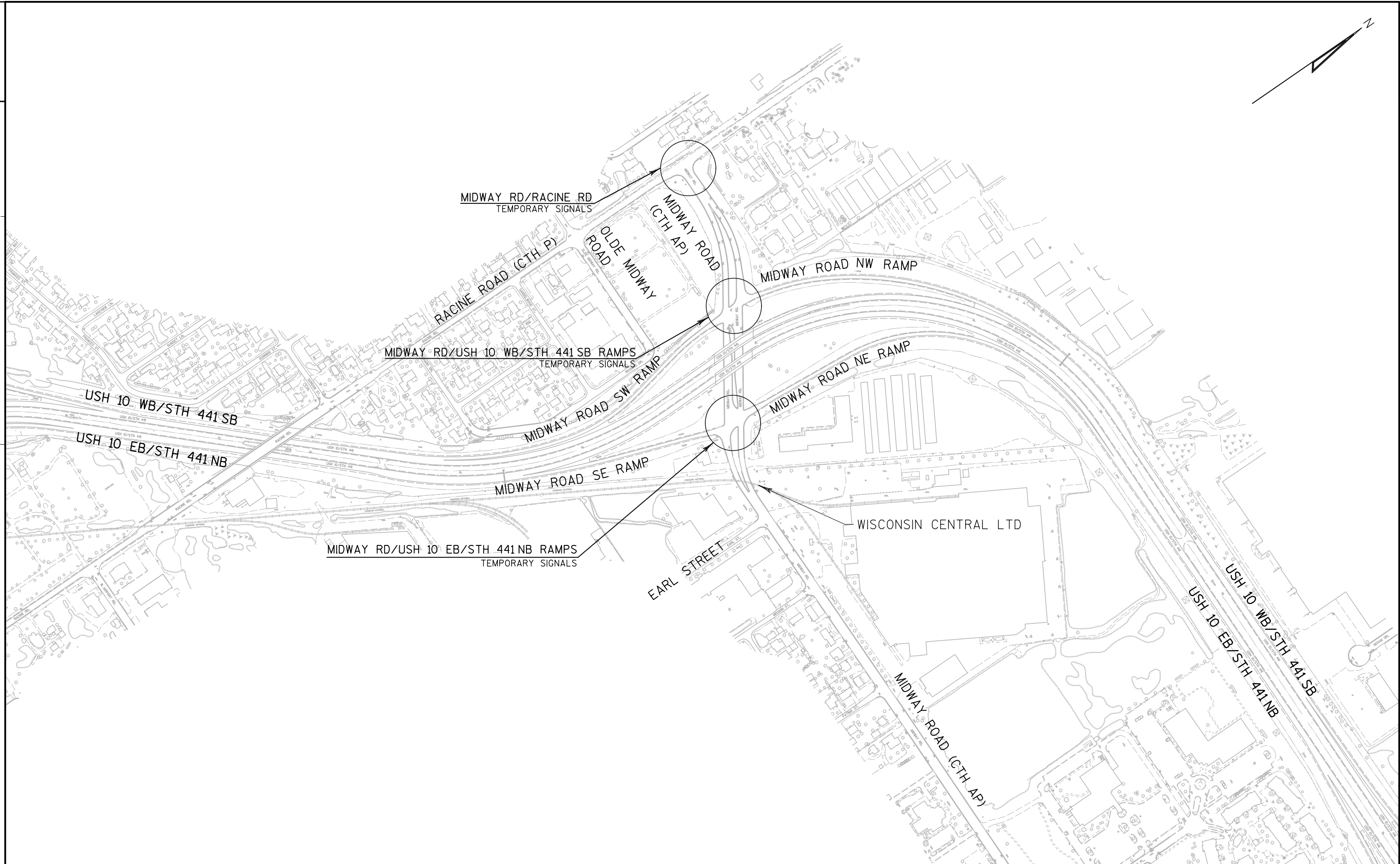
REMOVAL OF EROSION CONTROL DEVICES IS INCIDENTAL TO THE COST OF RESPECTIVE BID ITEMS.

EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.

ADJUST TRAFFIC CONTROL DEVICES TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

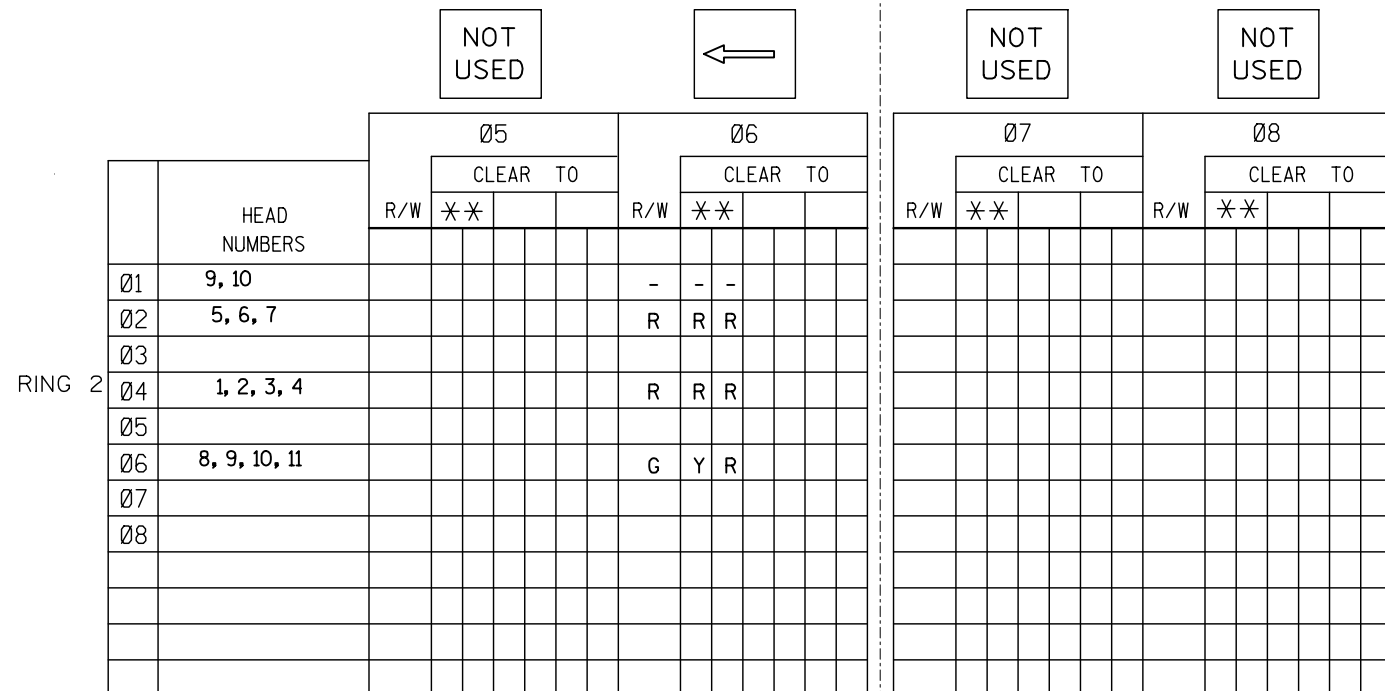
STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN IN THE PLANS ARE APPROXIMATE AND THE FINAL LOCATION OF SIGNS ARE TO BE DETERMINED BY THE ENGINEER.

BENCHMARK LOCATIONS SHOWN ON PLAN ARE APPROXIMATE AND SHOULD BE VERIFIED AND USED FOR ELEVATION ONLY.



PROJECT NO: 1517-75-82	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	PROJECT OVERVIEW	SHEET	E
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CONTROLLER LOGIC

[illegible]

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



TYPE OF INTERCONNECT COMMUNICATION		
NONE		
TBC		X
CLOSED LOOP TWISTED PAIR*		
CLOSED LOOP FIBER OPTIC*		
FIBER OPTIC		
RADIO		

*LOCATION OF MASTER
CONTROLLER NO: S-

SIGNAL SYSTEM #:	SS-	-
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TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	6	2,4
2	6	1,4
3		
4		1,2,6
5		
6	1 OR 2	4
7		
8		

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 1AT LEFT.)
3. PROVIDE FOR HAND CONTROL.

RACINE RD & MIDWAY RD
TOWN OF MENASHA
WINNEBAGO COUNTY

SIGNAL	NO.
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
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84	84
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92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

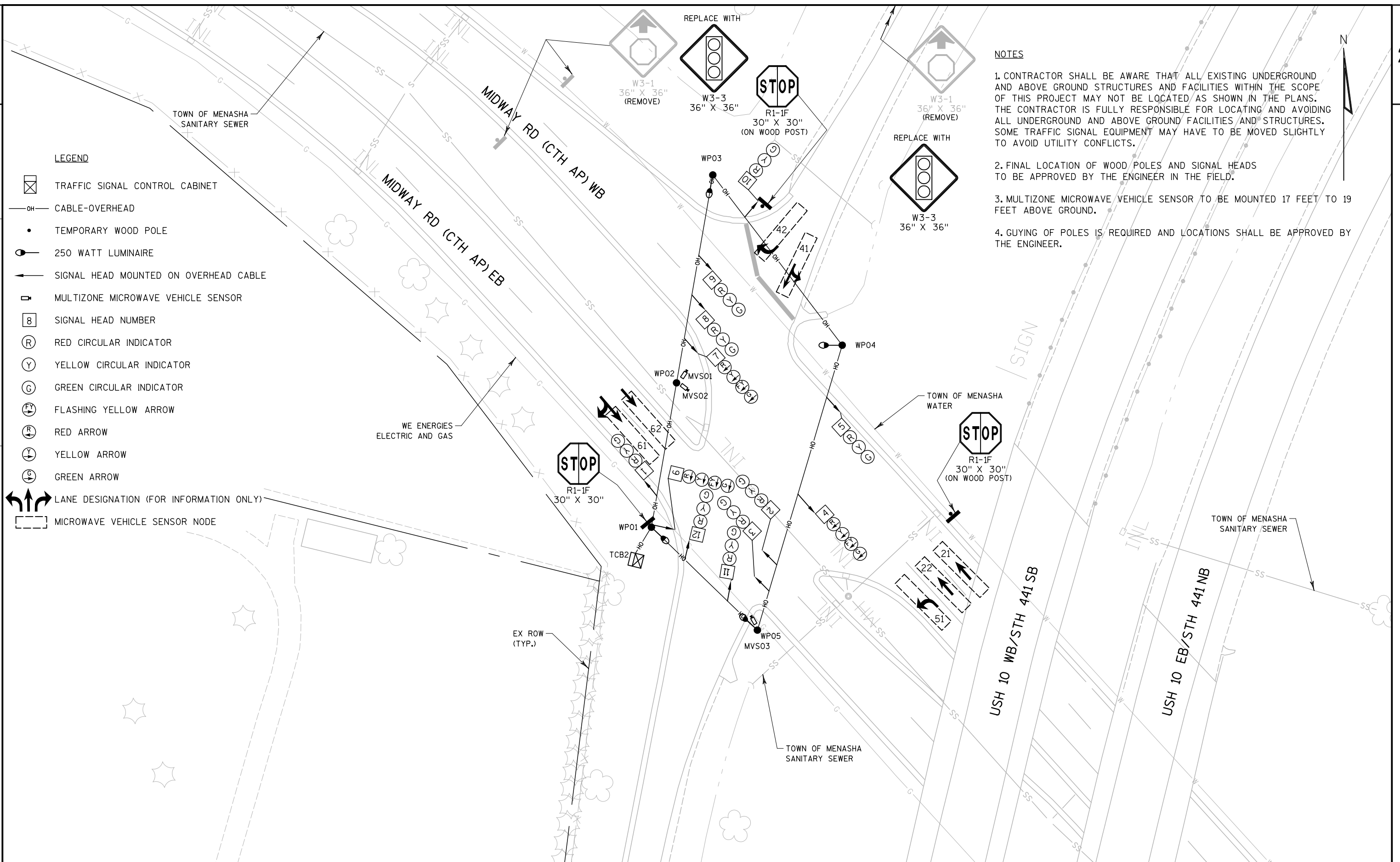
CONTROLLER TYPE:

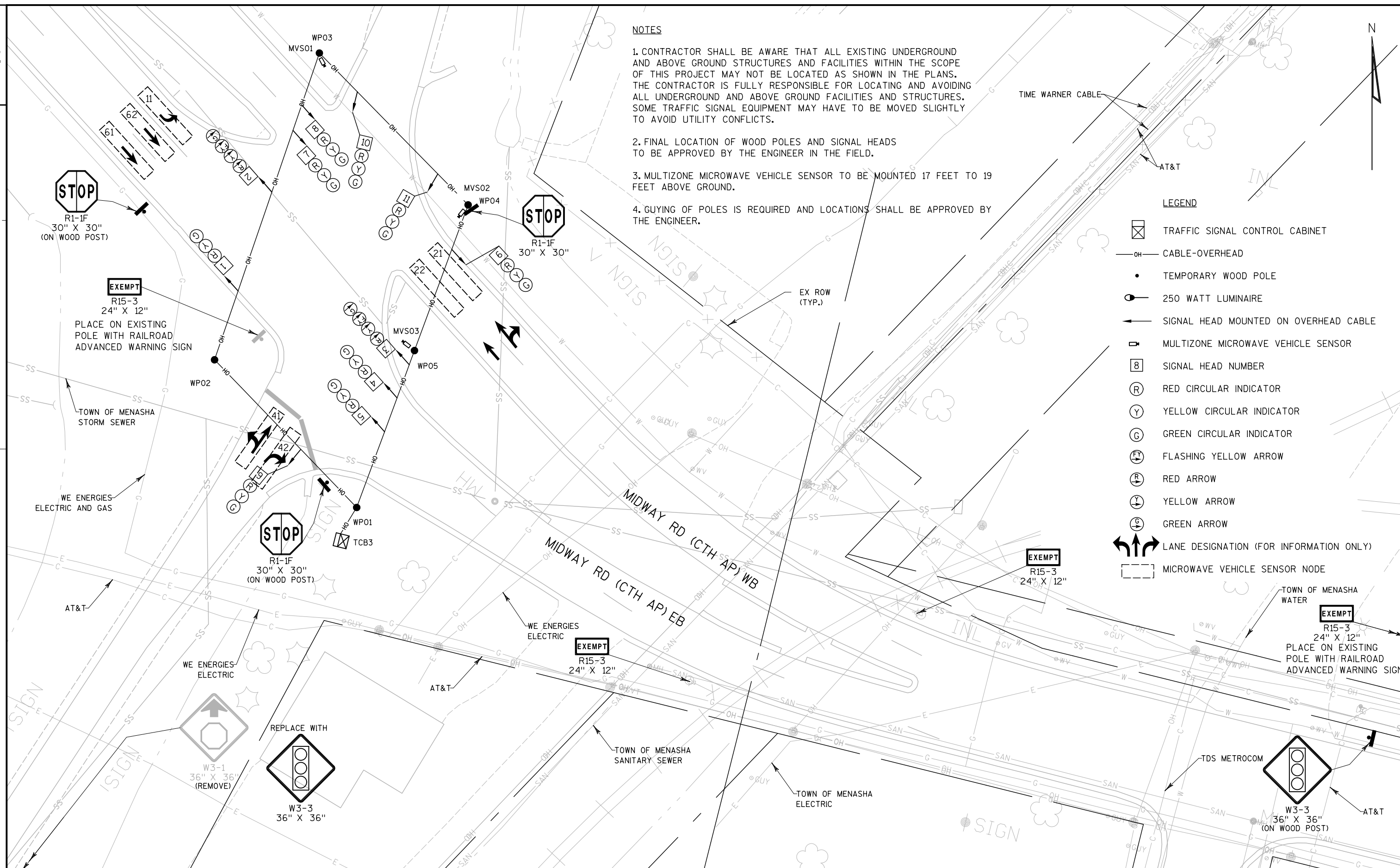
DATE	8/1/2014
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PAGE NO. 2 OF 2

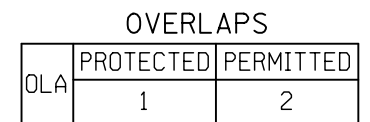
SHEET

E





CONTROLLER LOGIC



TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

SIGNAL NO.
CONTROLLER TYPE:
DATE PAGE NO. 2 OF 2

MIDWAY & RACINE
APPLETON ROAD INTERCHANGE CLOSURE

TIMING/COORDINATION DATA									
CYCLE REFERENCE: 1 AND 6/BEGIN OF GREEN									
TIMING PLAN 1	PHASE	1	2	3	4	5	6	7	8
	GREEN	8	21		23		35		
	YELLOW	4	4		4		4		
	ALL RED	2	2		2		2		
	TOTAL	14	27		29		41		
	MODE		MIN				MIN		
OFFSET: 0 SECONDS CYCLE LENGTH: 70 SECONDS TIME OF DAY: 6:30-9:00AM (AM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE: 1 AND 6/BEGIN OF GREEN									
TIMING PLAN 2	PHASE	1	2	3	4	5	6	7	8
	GREEN	9	19		24		34		
	YELLOW	4	4		4		4		
	ALL RED	2	2		2		2		
	TOTAL	15	25		30		40		
	MODE		MIN				MIN		
OFFSET: 0 SECONDS CYCLE LENGTH: 70 SECONDS TIME OF DAY: 2:30-6:00PM (PM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE:									
TIMING PLAN 3	PHASE	1	2	3	4	5	6	7	8
	MIN GR	7	25		10		25		
	MAX1	15	40		25		40		
	PSG	4	4		4		4		
	YELLOW	4	4		4		4		
	ALL RED	2	2		2		2		
	MODE		MIN				MIN		
OFFSET: N/A CYCLE LENGTH: RUNS FREE TIME OF DAY: OFF-PEAK DAY OF WEEK: SUNDAY-SATURDAY									

MIDWAY & USH 10/STH 441 SB RAMPS
APPLETON ROAD INTERCHANGE CLOSURE

TIMING/COORDINATION DATA									
CYCLE REFERENCE: 2 AND 5/BEGIN OF GREEN									
TIMING PLAN 1	PHASE	1	2	3	4	5	6	7	8
	GREEN		39		18	19	14		
	YELLOW		4		4	4	4		
	ALL RED		2		3	2	2		
	TOTAL		45		25	25	20		
	MODE		MIN				MIN		
OFFSET: 67 SECONDS CYCLE LENGTH: 70 SECONDS TIME OF DAY: 6:30-9:00AM (AM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE: 2 AND 5/BEGIN OF GREEN									
TIMING PLAN 2	PHASE	1	2	3	4	5	6	7	8
	GREEN		41		16	18	17		
	YELLOW		4		4	4	4		
	ALL RED		2		3	2	2		
	TOTAL		47		23	24	23		
	MODE		MIN				MIN		
OFFSET: 1 SECOND CYCLE LENGTH: 70 SECONDS TIME OF DAY: 2:30-6:00PM (PM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE:									
TIMING PLAN 3	PHASE	1	2	3	4	5	6	7	8
	MIN GR		25		10	7	25		
	MAX1		40		25	15	40		
	PSG		4		4	4	4		
	YELLOW		4		4	4	4		
	ALL RED		2		3	2	2		
	MODE		MIN				MIN		
OFFSET: N/A CYCLE LENGTH: RUNS FREE TIME OF DAY: OFF-PEAK DAY OF WEEK: SUNDAY-SATURDAY									

MIDWAY & USH 10/STH 441 NB RAMPS
APPLETON ROAD INTERCHANGE CLOSURE

TIMING/COORDINATION DATA									
CYCLE REFERENCE: 1 AND 6/BEGIN OF GREEN									
TIMING PLAN 1	PHASE	1	2	3	4	5	6	7	8
	GREEN	7	14		30		27		
	YELLOW	4	4		4		4		
	ALL RED	2	2		3		2		
	TOTAL	13	20		37		33		
	MODE		MIN				MIN		
OFFSET: 44 SECONDS CYCLE LENGTH: 70 SECONDS TIME OF DAY: 6:30-9:00AM (AM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE: 1 AND 6/BEGIN OF GREEN									
TIMING PLAN 2	PHASE	1	2	3	4	5	6	7	8
	GREEN	7	20		24		33		
	YELLOW	4	4		4		4		
	ALL RED	2	2		3		2		
	TOTAL	13	26		31		39		
	MODE		MIN				MIN		
OFFSET: 45 SECONDS CYCLE LENGTH: 70 SECONDS TIME OF DAY: 2:30-6:00PM (PM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE:									
TIMING PLAN 3	PHASE	1	2	3	4	5	6	7	8
	MIN GR	7	25		10		25		
	MAX1	15	40		25		40		
	PSG	4	4		4		4		
	YELLOW	4	4		4		4		
	ALL RED	2	2		3		2		
	MODE		MIN				MIN		
OFFSET: N/A CYCLE LENGTH: RUNS FREE TIME OF DAY: OFF-PEAK DAY OF WEEK: SUNDAY-SATURDAY									

MIDWAY & RACINE
RACINE RD INTERCHANGE CLOSURE

TIMING/COORDINATION DATA									
CYCLE REFERENCE: 1 AND 6/BEGIN OF GREEN									
TIMING PLAN 1	PHASE	1	2	3	4	5	6	7	8
	GREEN	7	17		28		30		
	YELLOW	4	4		4		4		
	ALL RED	2	2		2		2		
	TOTAL	13	23		34		36		
	MODE		MIN				MIN		
OFFSET: 0 SECONDS CYCLE LENGTH: 70 SECONDS TIME OF DAY: 6:30-9:00AM (AM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE: 1 AND 6/BEGIN OF GREEN									
TIMING PLAN 2	PHASE	1	2	3	4	5	6	7	8
	GREEN	7	20		35		33		
	YELLOW	4	4		4		4		
	ALL RED	2	2		2		2		
	TOTAL	13	26		41		39		
	MODE		MIN				MIN		
OFFSET: 0 SECONDS CYCLE LENGTH: 80 SECONDS TIME OF DAY: 2:30-6:00PM (PM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE:									
TIMING PLAN 3	PHASE	1	2	3	4	5	6	7	8
	MIN GR	7	25		10		25		
	MAX1	15	40		25		40		
	PSG	4	4		4		4		
	YELLOW	4	4		4		4		
	ALL RED	2	2		2		2		
	MODE		MIN				MIN		
OFFSET: N/A CYCLE LENGTH: RUNS FREE TIME OF DAY: OFF-PEAK DAY OF WEEK: SUNDAY-SATURDAY									

MIDWAY & USH 10/STH 441 SB RAMPS
RACINE RD INTERCHANGE CLOSURE

TIMING/COORDINATION DATA									
CYCLE REFERENCE: 2 AND 5/BEGIN OF GREEN									
TIMING PLAN 1	PHASE	1	2	3	4	5	6	7	8
	GREEN		39		18	14	19		
	YELLOW		4		4	4	4		
	ALL RED		2		3	2	2		
	TOTAL		45		25	20	25		
	MODE		MIN				MIN		
OFFSET: 11 SECONDS CYCLE LENGTH: 70 SECONDS TIME OF DAY: 6:30-9:00AM (AM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE: 2 AND 5/BEGIN OF GREEN									
TIMING PLAN 2	PHASE	1	2	3	4	5	6	7	8
	GREEN		48		19	20	22		
	YELLOW		4		4	4	4		
	ALL RED		2		3	2	2		
	TOTAL		54		26	26	28		
	MODE		MIN				MIN		
OFFSET: 13 SECONDS CYCLE LENGTH: 80 SECONDS TIME OF DAY: 2:30-6:00PM (PM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE:									
TIMING PLAN 3	PHASE	1	2	3	4	5	6	7	8
	MIN GR		25		10	7	25		
	MAX1		40		25	15	40		
	PSG		4		4	4	4		
	YELLOW		4		4	4	4		
	ALL RED		2		3	2	2		
	MODE		MIN				MIN		
OFFSET: N/A CYCLE LENGTH: RUNS FREE TIME OF DAY: OFF-PEAK DAY OF WEEK: SUNDAY-SATURDAY									

MIDWAY & USH 10/STH 441 NB RAMPS
RACINE RD INTERCHANGE CLOSURE

TIMING/COORDINATION DATA									
CYCLE REFERENCE: 1 AND 6/BEGIN OF GREEN									
TIMING PLAN 1	PHASE	1	2	3	4	5	6	7	8
	GREEN	7	14		30		27		
	YELLOW	4	4		4		4		
	ALL RED	2	2		3		2		
	TOTAL	13	20		37		33		
	MODE		MIN				MIN		
OFFSET: 52 SECONDS CYCLE LENGTH: 70 SECONDS TIME OF DAY: 6:30-9:00AM (AM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE: 1 AND 6/BEGIN OF GREEN									
TIMING PLAN 2	PHASE	1	2	3	4	5	6	7	8
	GREEN	8	17		36		31		
	YELLOW	4	4		4		4		
	ALL RED	2	2		3		2		
	TOTAL	14	23		43		37		
	MODE		MIN				MIN		
OFFSET: 59 SECONDS CYCLE LENGTH: 80 SECONDS TIME OF DAY: 2:30-6:00PM (PM PEAK) DAY OF WEEK: MONDAY-FRIDAY									
TIMING/COORDINATION DATA									
CYCLE REFERENCE:									
TIMING PLAN 3	PHASE	1	2	3	4	5	6	7	8
	MIN GR	7	25		10		25		
	MAX1	15	40		25		40		
	PSG	4	4		4		4		
	YELLOW	4	4		4		4		
	ALL RED	2	2		3		2		
	MODE		MIN				MIN		
OFFSET: N/A CYCLE LENGTH: RUNS FREE TIME OF DAY: OFF-PEAK DAY OF WEEK: SUNDAY-SATURDAY									

DATE 16DEC14			E S T I M A T E O F Q U A N T I T I E S		
LINE					1517-75-82
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	213. 0100	FINISHING ROADWAY (PROJECT) 001. 1517-75-82	EACH	1. 000	1. 000
0020	619. 1000	MOBILIZATION	EACH	1. 000	1. 000
0030	628. 1504	SILT FENCE	LF	60. 000	60. 000
0040	628. 1520	SILT FENCE MAINTENANCE	LF	60. 000	60. 000
0050	628. 7020	INLET PROTECTION TYPE D	EACH	10. 000	10. 000
0060	634. 0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	7. 000	7. 000
0070	637. 2230	SIGNS TYPE II REFLECTIVE F	SF	127. 250	127. 250
0080	638. 2602	REMOVING SIGNS TYPE II	EACH	5. 000	5. 000
0090	643. 0100	TRAFFIC CONTROL (PROJECT) 001. 1517-75-82	EACH	1. 000	1. 000
0100	656. 0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 001. RACINE ROAD WITH MIDWAY ROAD	LS	1. 000	1. 000
0110	656. 0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 002. MIDWAY ROAD WITH USH 10/STH 441 SB RAMPS	LS	1. 000	1. 000
0120	656. 0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 003. MIDWAY ROAD WITH USH 10/STH 441 NB RAMPS	LS	1. 000	1. 000
0130	661. 0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 001. RACINE ROAD WITH MIDWAY ROAD	LS	1. 000	1. 000
0140	661. 0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 002. MIDWAY ROAD WITH USH 10/STH 441 SB RAMPS	LS	1. 000	1. 000
0150	661. 0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 003. MIDWAY ROAD WITH USH 10/STH 441 NB RAMPS	LS	1. 000	1. 000
0160	SPV. 0060	SPECIAL 450. MULTI ZONE MICROWAVE VEHICLE SENSOR	EACH	9. 000	9. 000

3

TEMPORARY TRAFFIC SIGNALS

	661.0200.001 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS	661.0200.002 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS	661.0200.003 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS	SPV.0060.450 MULTIZONE MICROWAVE VEHICLE SENSOR
CATEGORY LOCATION	LS	LS	LS	EACH
1300 MIDWAY RD & RACINE RD	1	-	-	3
MIDWAY RD & USH 10/STH 441 SB RAMPS	-	1	-	3
MIDWAY RD & USH 10/STH 441 NB RAMPS	-	-	1	3
TOTAL	1	1	1	9

FINISHING ROADWAY (1517-75-82)

CATEGORY LOCATION	213.0100 FINISHING ROADWAY (1517-75-82) EACH
1000 PROJECT 1517-75-82	1
TOTAL	1

EROSION CONTROL

	628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.7020 INLET PROTECTION TYPE D
CATEGORY LOCATION	LF	LF	EACH
1000 UNDISTRIBUTED	60	60	10
TOTAL	60	60	10

TRAFFIC SIGNAL ELECTRICAL SERVICE

	656.0200.001 ELECTRICAL SERVICE METER BREAKER	656.0200.002 ELECTRICAL SERVICE METER BREAKER	656.0200.003 ELECTRICAL SERVICE METER BREAKER
CATEGORY LOCATION	PEDESTAL LS	PEDESTAL LS	PEDESTAL LS
1300 MIDWAY RD & RACINE RD	1	-	-
MIDWAY RD & USH 10/STH 441 SB RAMPS	-	1	-
MIDWAY RD & USH 10/STH 441 NB RAMPS	-	-	1
TOTAL	1	1	1

SIGNING

				634.0616 POSTS WOOD 4X6X16 EACH	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	638.2602 REMOVING SIGNS TYPE II EACH
CATEGORY LOCATION	CODE	SIZE	DESCRIPTION			
1300 NB RACINE	W3-3	36X36	SIGNAL AHEAD	1	9.0	-
	R1-1F	30X30	STOP (FOLDING)	-	6.25	-
SB RACINE	W3-3	36X36	SIGNAL AHEAD	1	9.0	-
	R1-1F	30X30	STOP (FOLDING)	-	6.25	-
WB	R1-1F	30X30	STOP (FOLDING)	-	6.25	-
	W3-3	36X36	SIGNAL AHEAD	-	9.0	-
	W3-3	36X36	SIGNAL AHEAD	-	9.0	-
	R1-1		STOP	-	-	1
	W3-1		STOP AHEAD	-	-	2
	W3-3	36X36	SIGNAL AHEAD	1	9.0	-
	R1-1F	30X30	STOP (FOLDING)	-	6.25	-
	R1-1F	30X30	STOP (FOLDING)	1	6.25	-
	R15-3	24X12	EXEMPT	-	2.00	-
	R15-3	24X12	EXEMPT	-	2.00	-
EB	R1-1F	30X30	STOP (FOLDING)	-	6.25	-
	R1-1F	30X30	STOP (FOLDING)	1	6.25	-
	R15-3	24X12	EXEMPT	-	2.00	-
	R15-3	24X12	EXEMPT	-	2.00	-
NB EXIT RAMP	W3-1		STOP AHEAD	-	-	1
	W3-3	36X36	SIGNAL AHEAD	-	9.0	-
	R1-1F	30X30	STOP (FOLDING)	1	6.25	-
SB EXIT RAMP	W3-1		STOP AHEAD	-	-	1
	W3-3	36X36	SIGNAL AHEAD	-	9.0	-
	R1-1F	30X30	STOP (FOLDING)	1	6.25	-
TOTAL				7	127.25	5

3

TRAFFIC CONTROL

CATEGORY LOCATION	643.0100 TRAFFIC CONTROL (1517-75-82) EACH
1000 PROJECT 1517-75-82	1
TOTAL	1

MOBILIZATION

CATEGORY LOCATION	619.1000 MOBILIZATION (1517-75-82) EACH
1000 PROJECT 1517-75-82	1
TOTAL	1

PROJECT NO:1517-75-82

HWY:USH 10/STH 441

COUNTY:WINNEBAGO

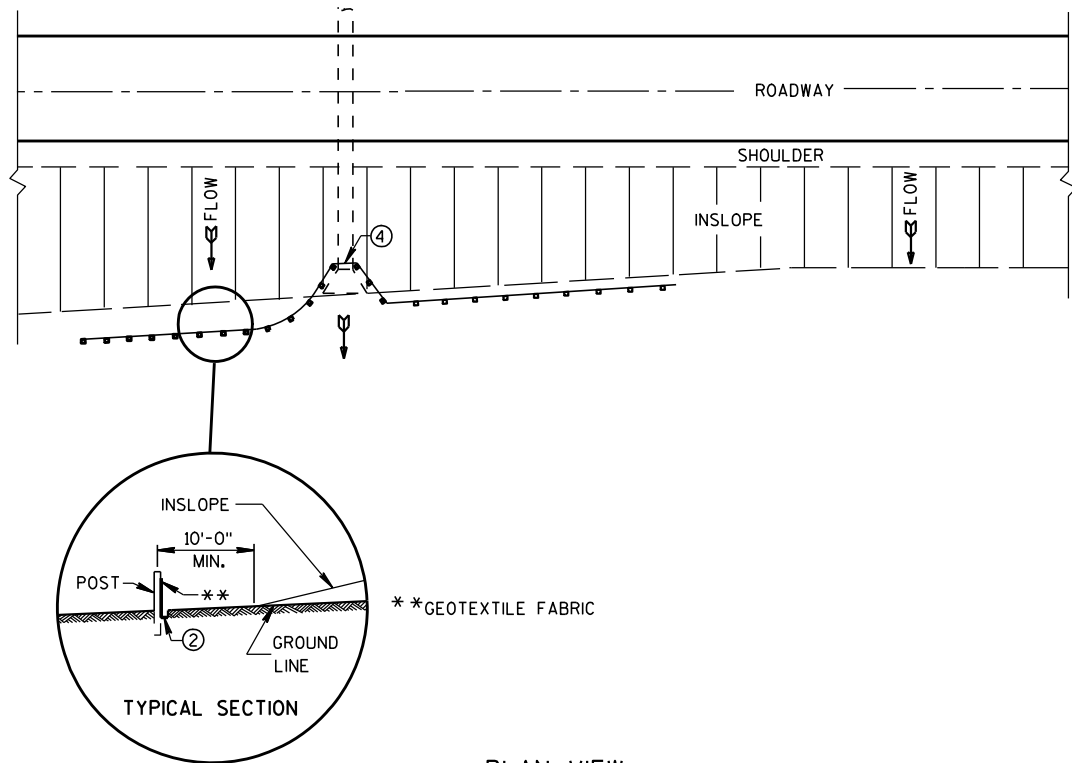
MISCELLANEOUS QUANTITIES

SHEET

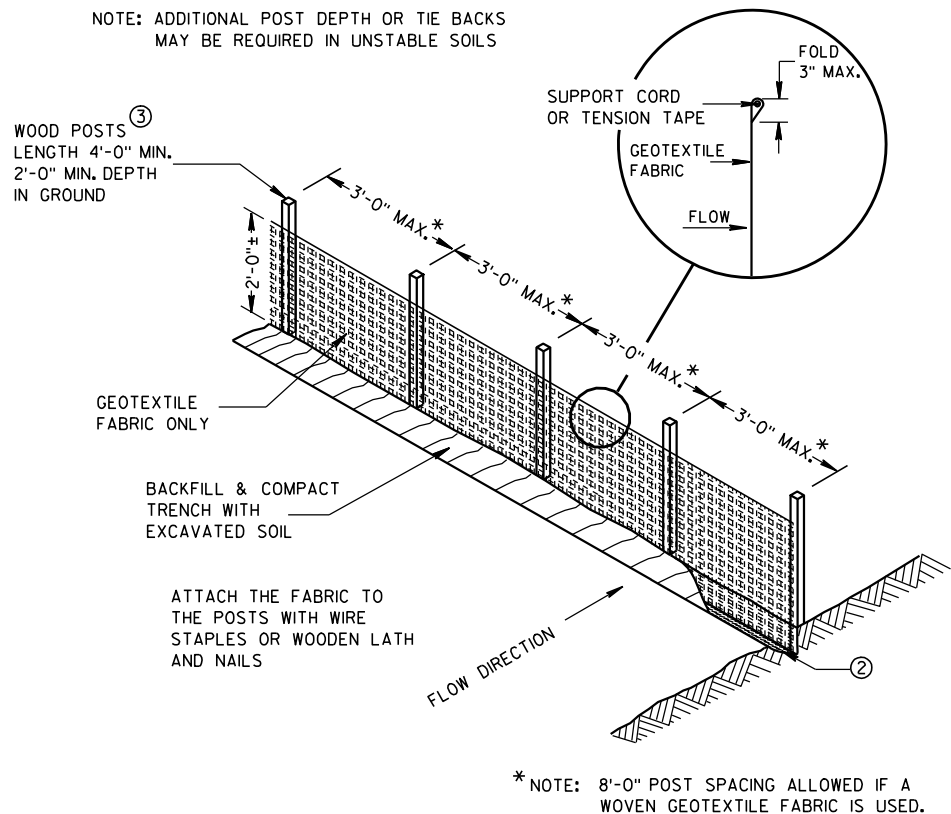
E

Standard Detail Drawing List

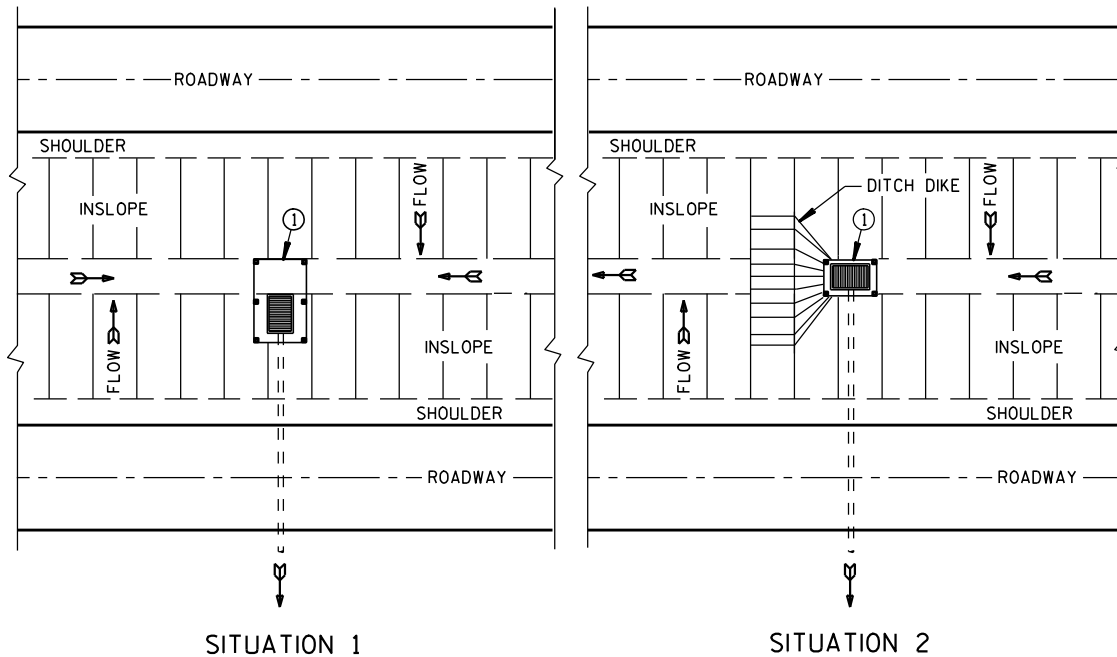
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-07	CONDUIT
09B04-10	PULL BOX
09D01-04	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09G01-03A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D32-03	TRAFFIC CONTROL, ONE LANE ROAD STOP CONDITION



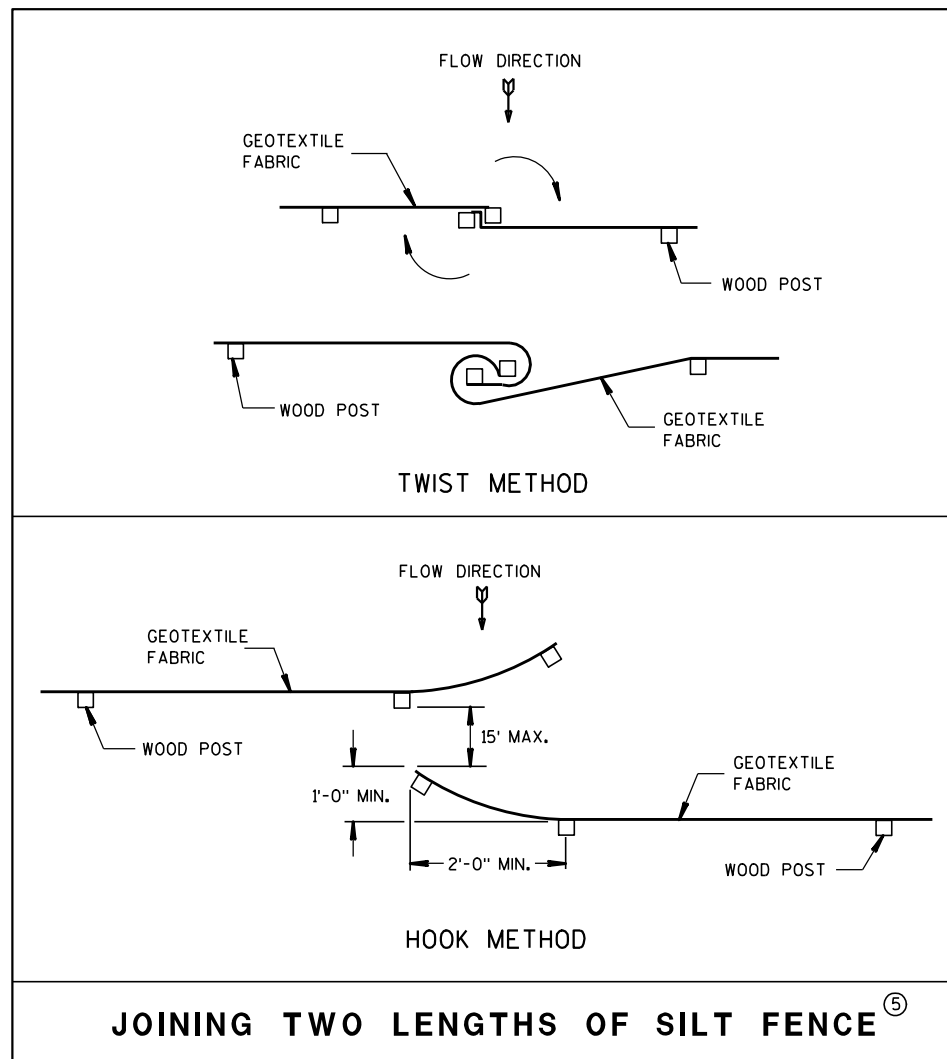
PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE



SILT FENCE



PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

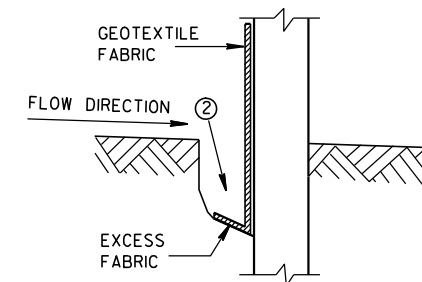


JOINING TWO LENGTHS OF SILT FENCE^⑤

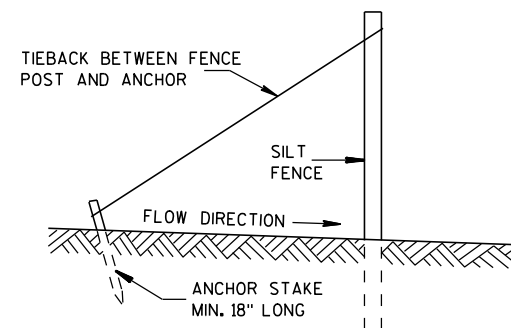
GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

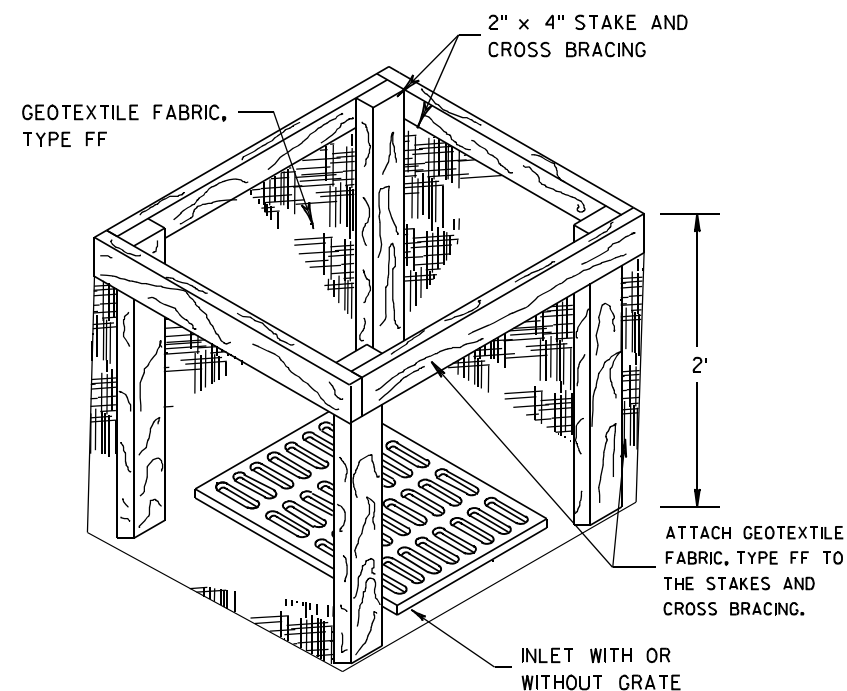
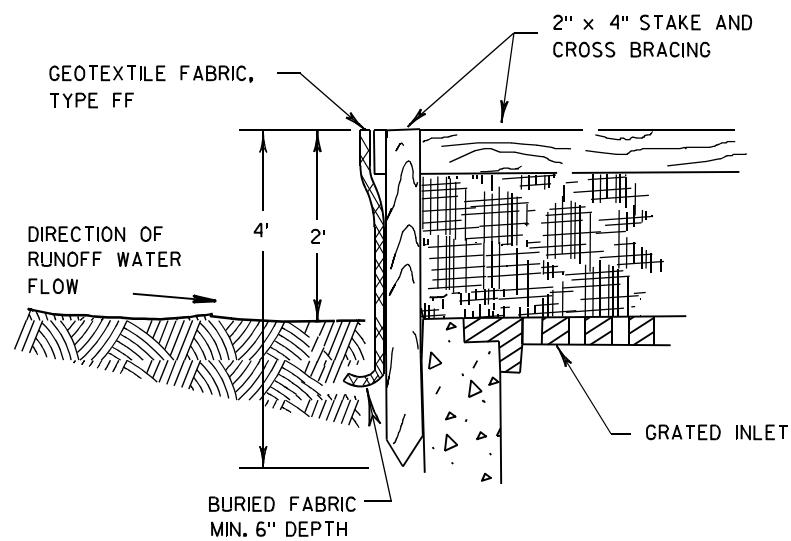


TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Canestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



INLET PROTECTION, TYPE A

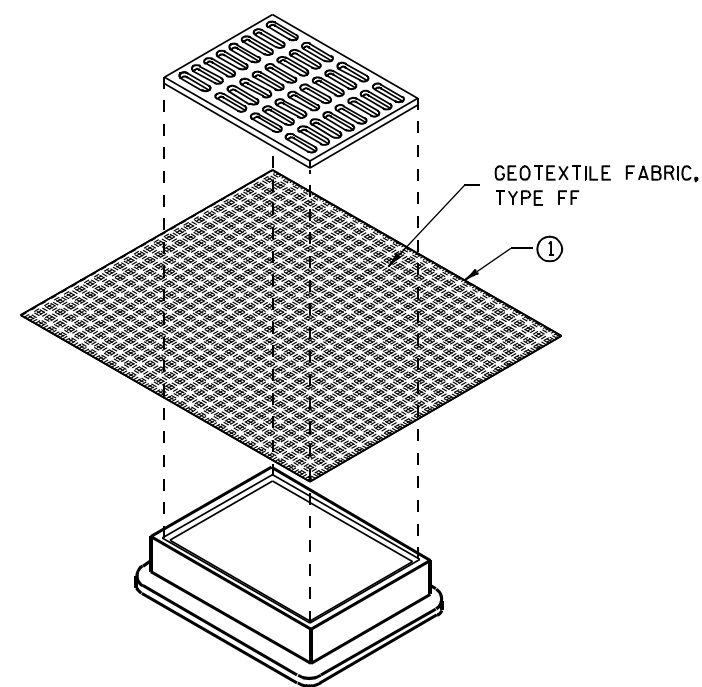
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

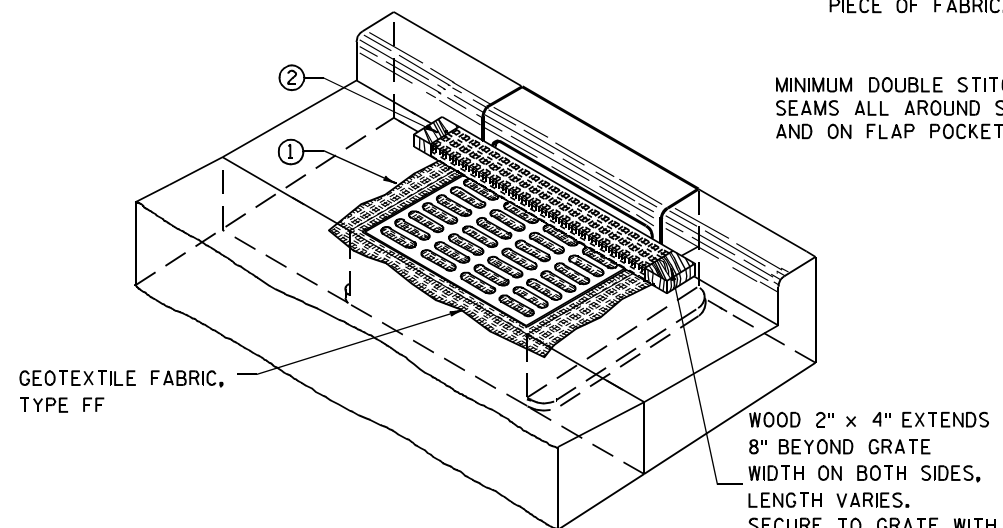
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

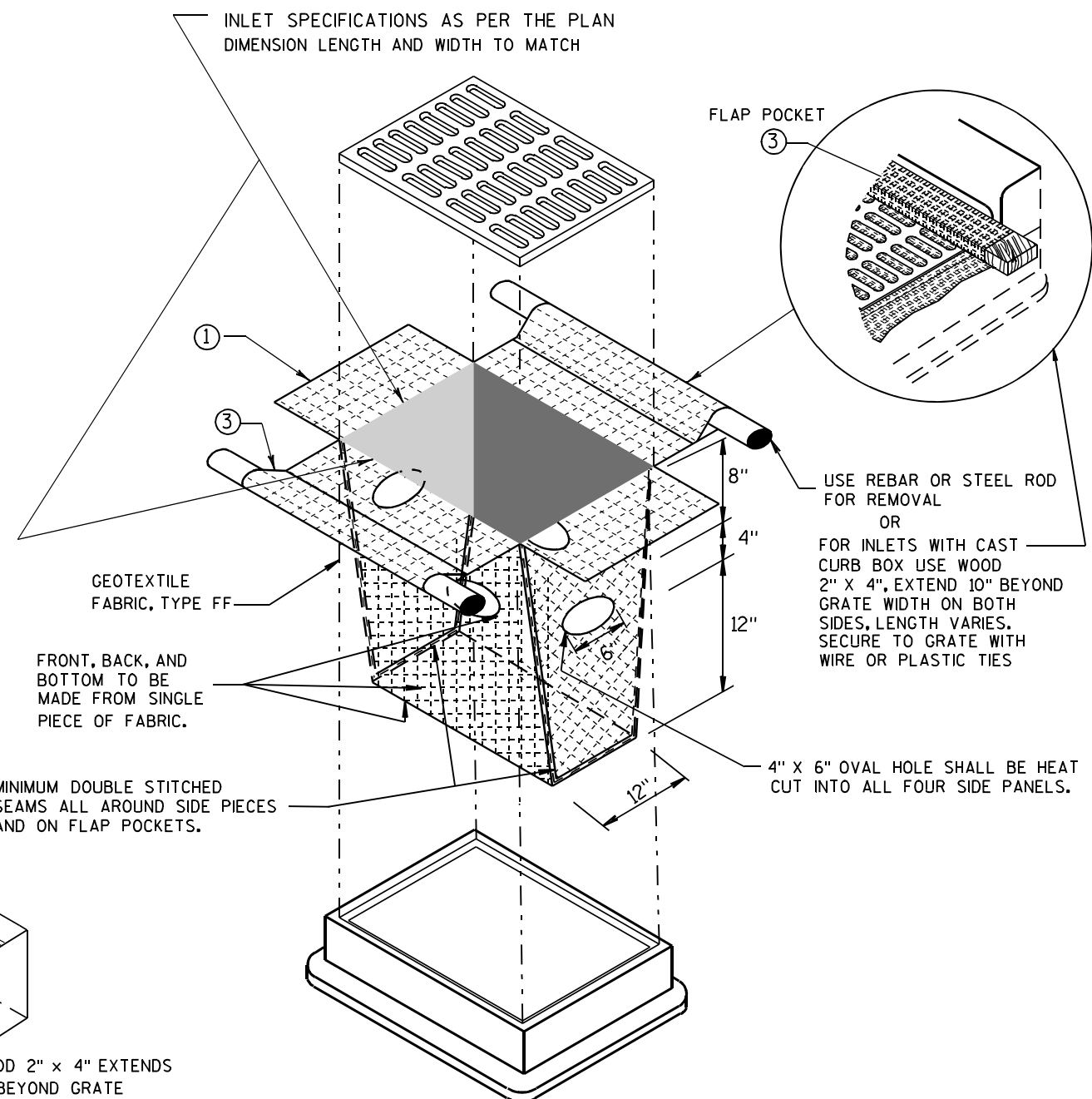
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



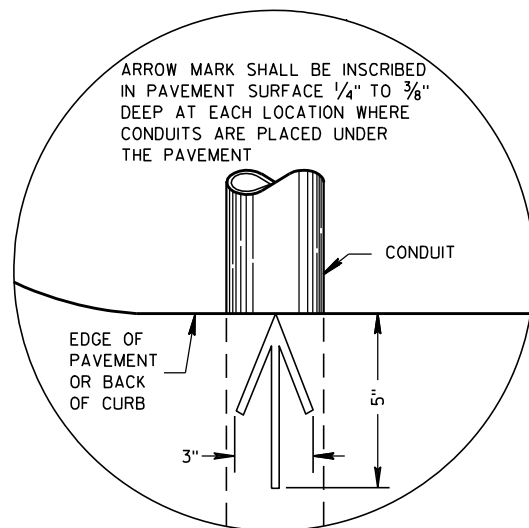
INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

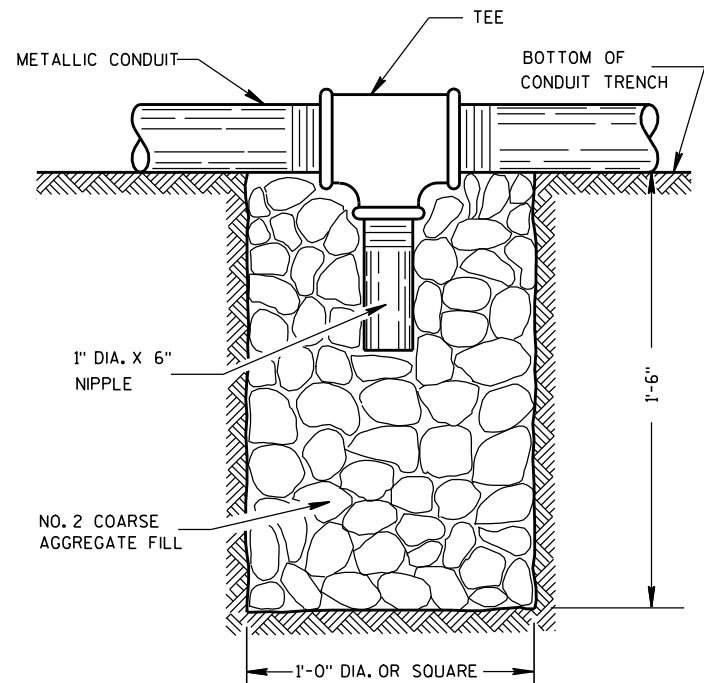
**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 /S/ Beth Cannestra
DATE
FHWA CHIEF ROADWAY DEVELOPMENT ENGINEER

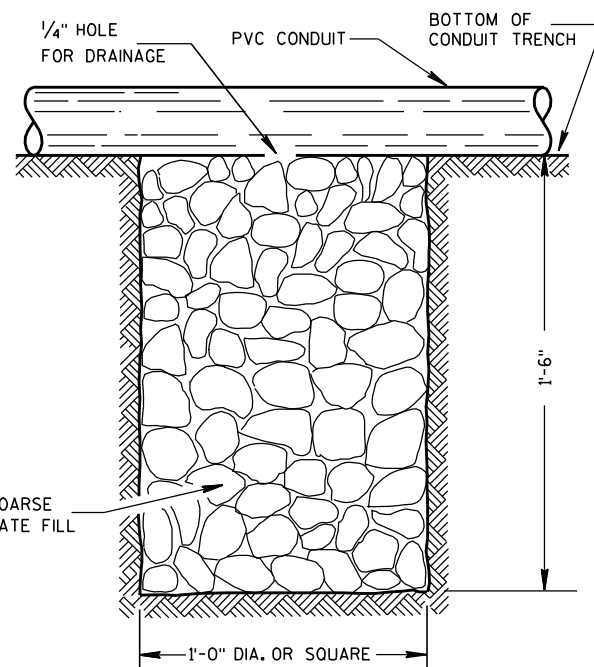


PLAN VIEW
ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSON TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

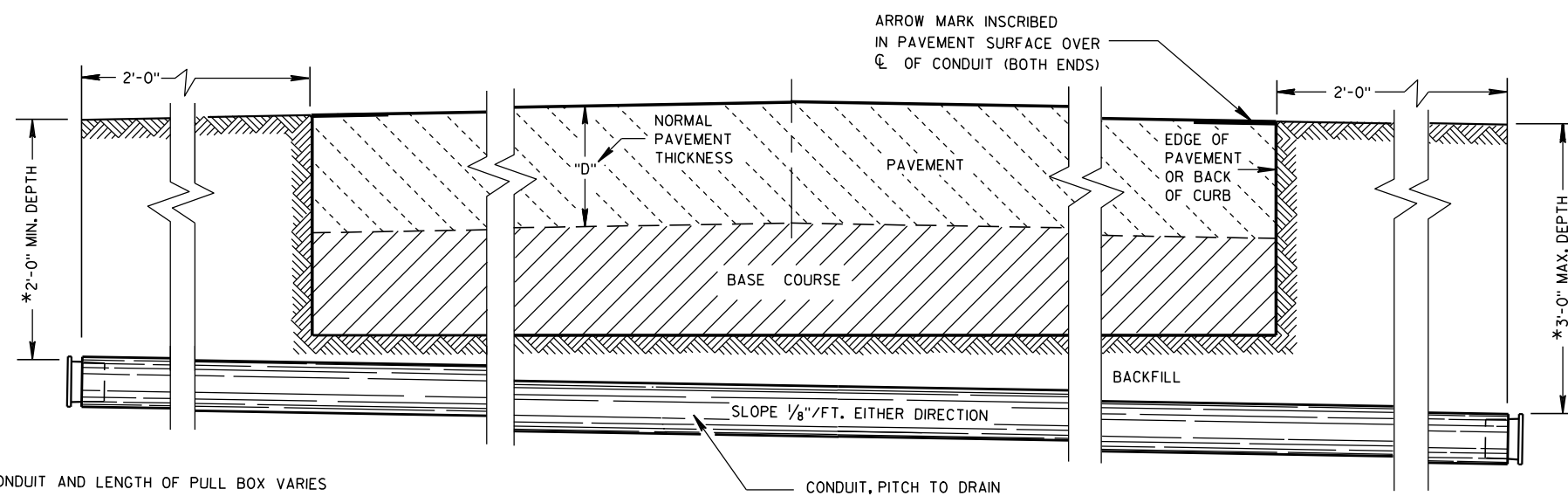
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION
DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/23/03
DATE

FHWA

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGINEER FOR HWYS

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

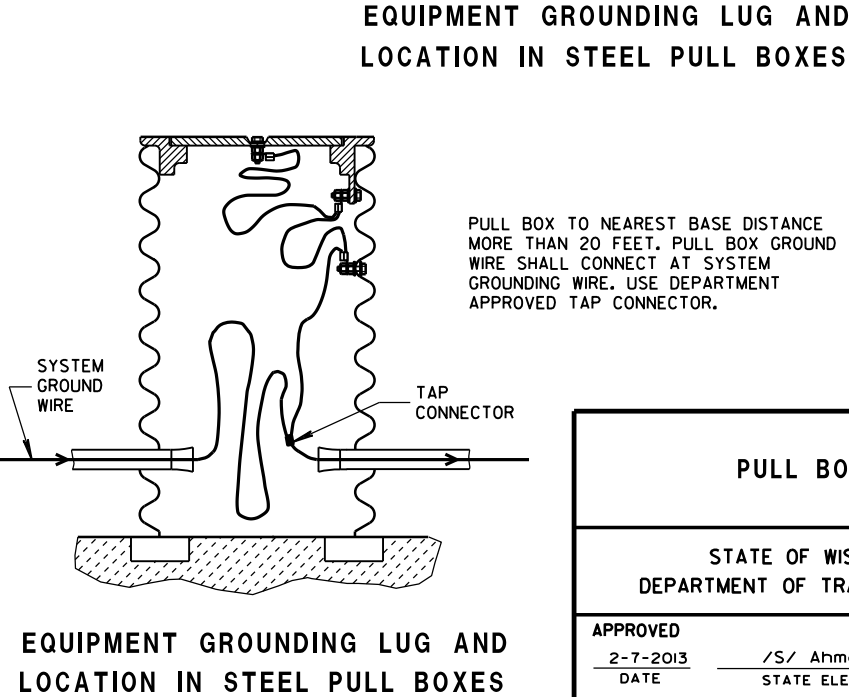
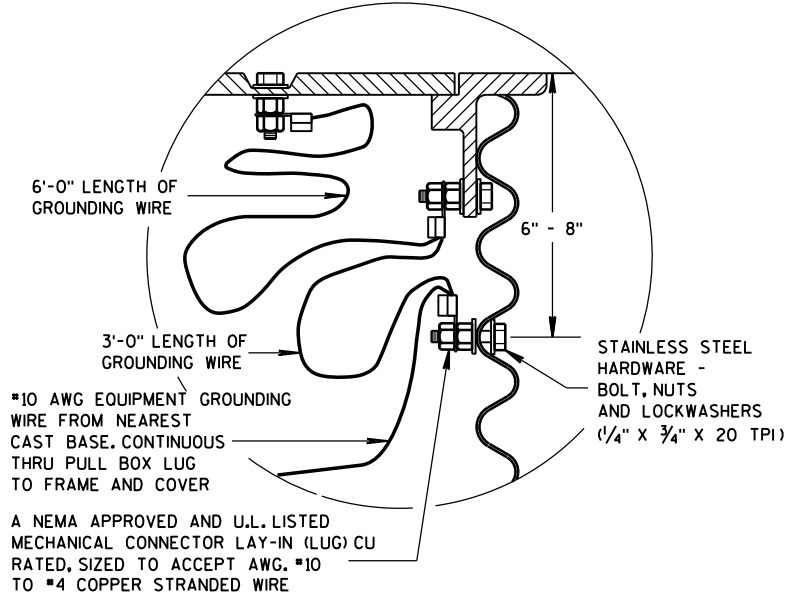
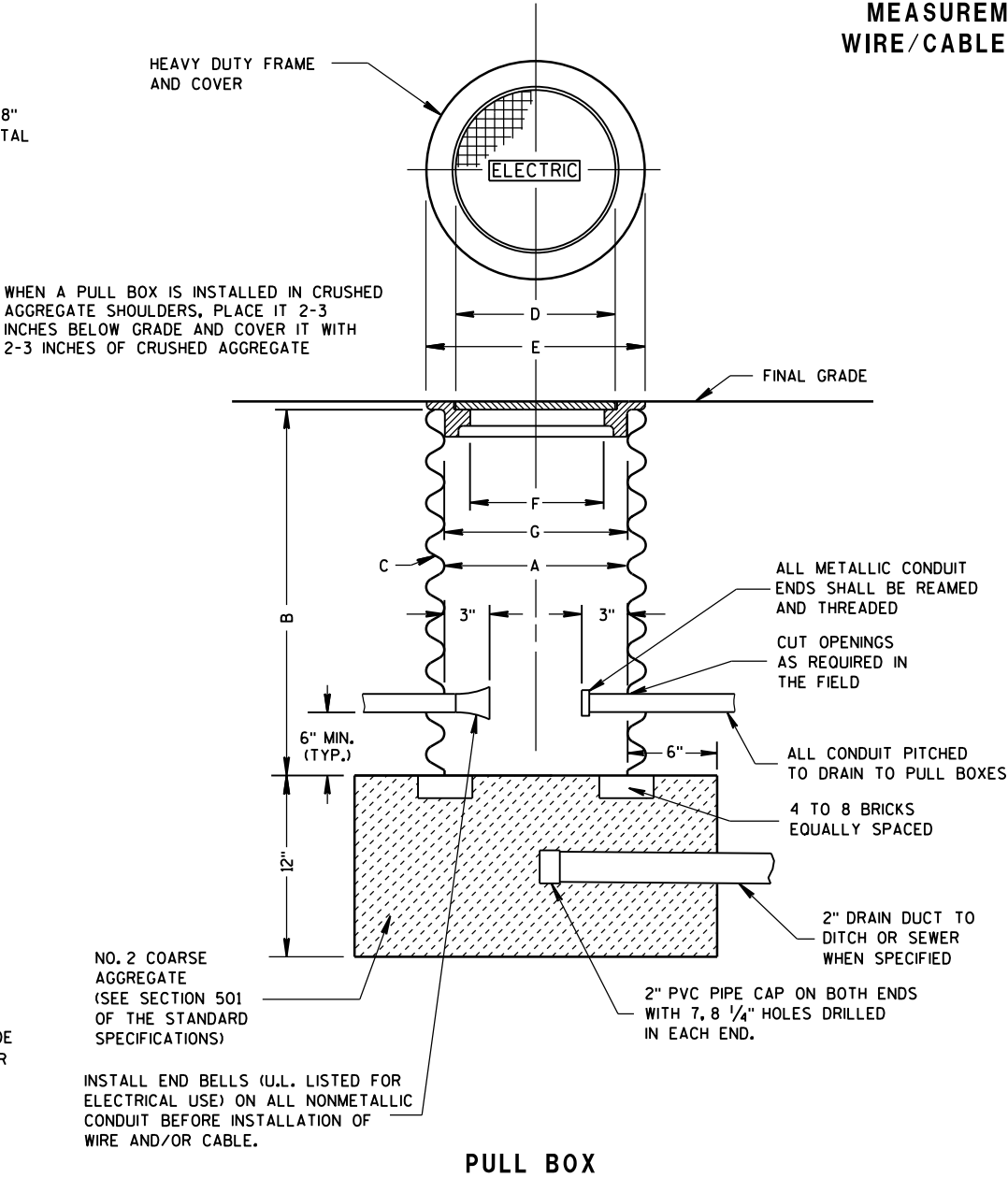
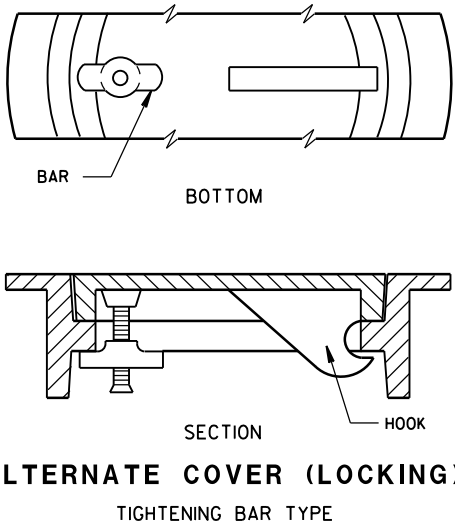
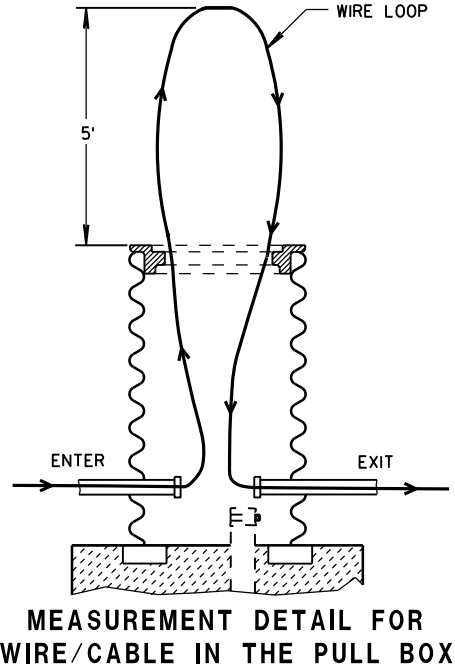
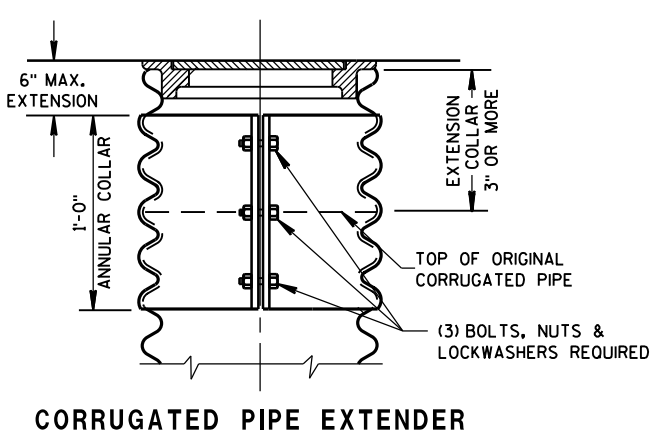
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

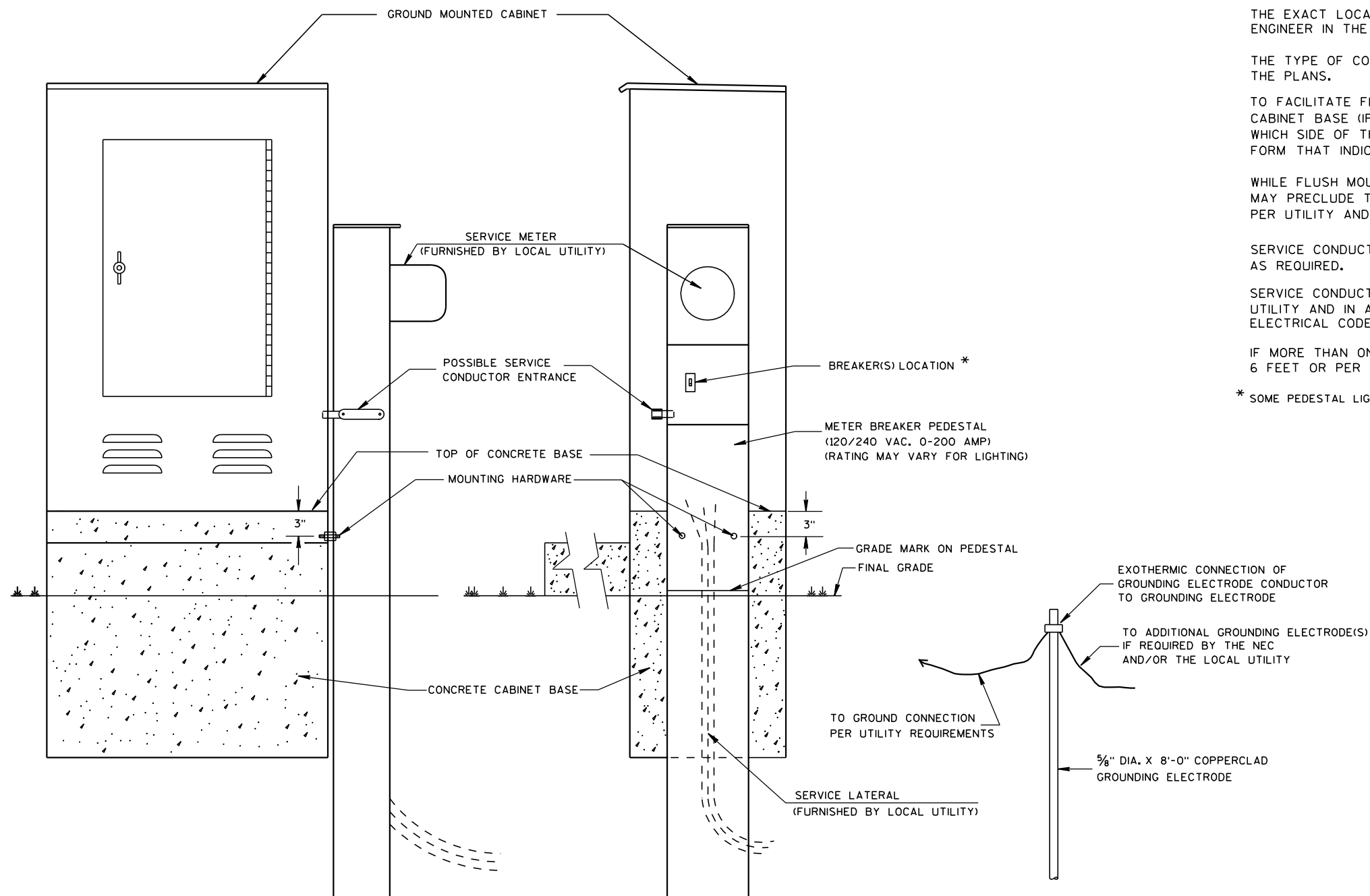
ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-7-2013 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER
FHWA	



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE, CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH, THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION
(METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/27/09

DATE

FHWA

/S/ Joanna L. Bush
STATE ELECTRICAL ENGINEER FOR HWYS

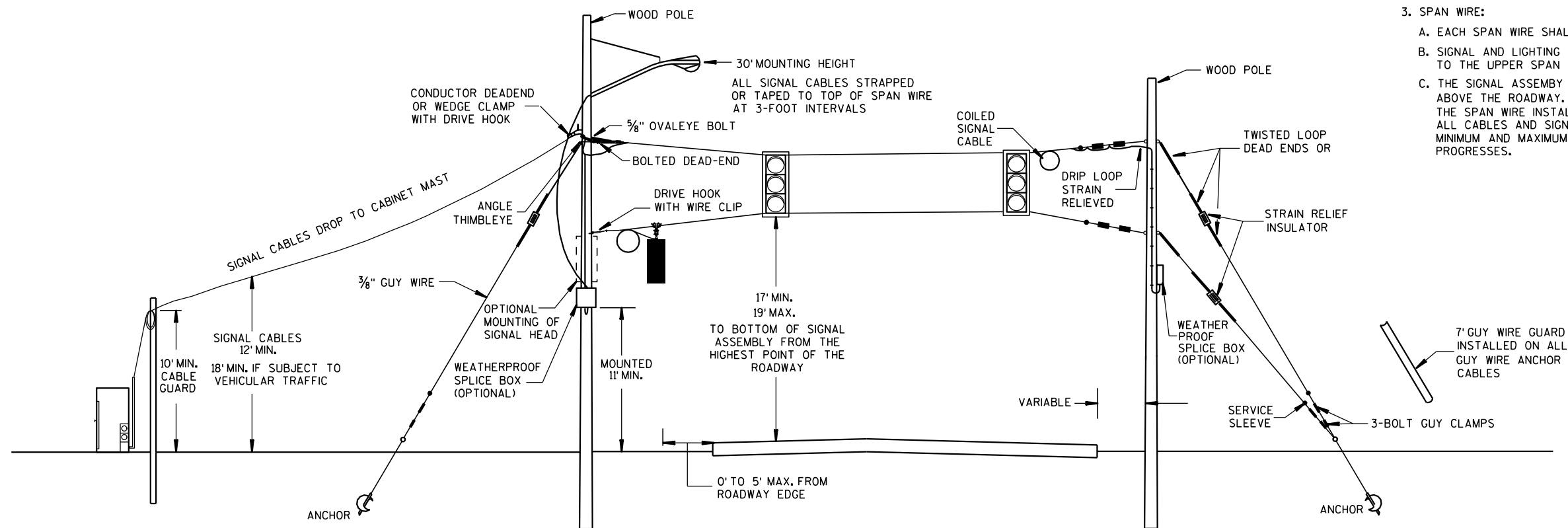
GENERAL NOTES

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

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
 A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
 B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
 C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
 D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY, IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

3. SPAN WIRE:
 A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
 B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
 C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE TEMPORARY SIGNALS

MINIMUM POLE LENGTHS	POLE BURIEL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

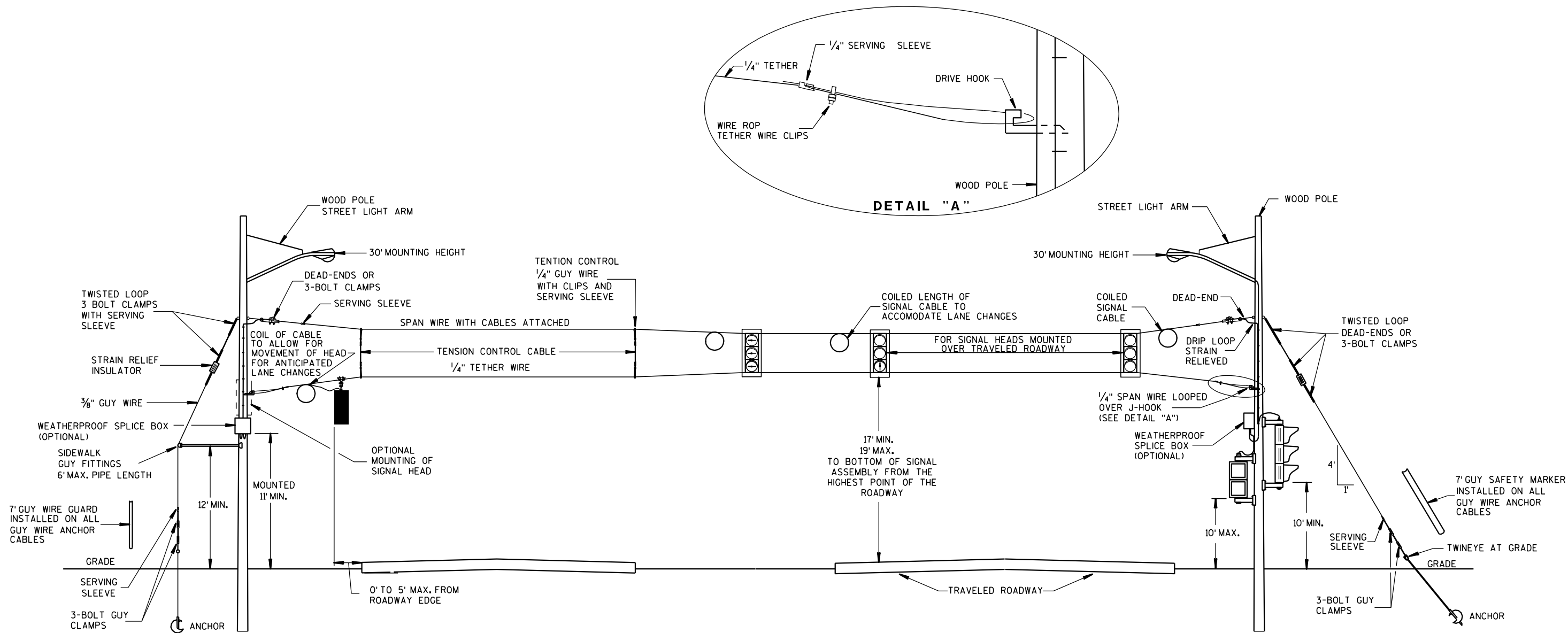
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08
DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGINEER FOR HWYS

FHWA



GENERAL NOTES

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E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

3. SPAN WIRE:

A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.

B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.

C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

SPAN WIRE TEMPORARY SIGNALS 4 LANE ROADWAYS

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

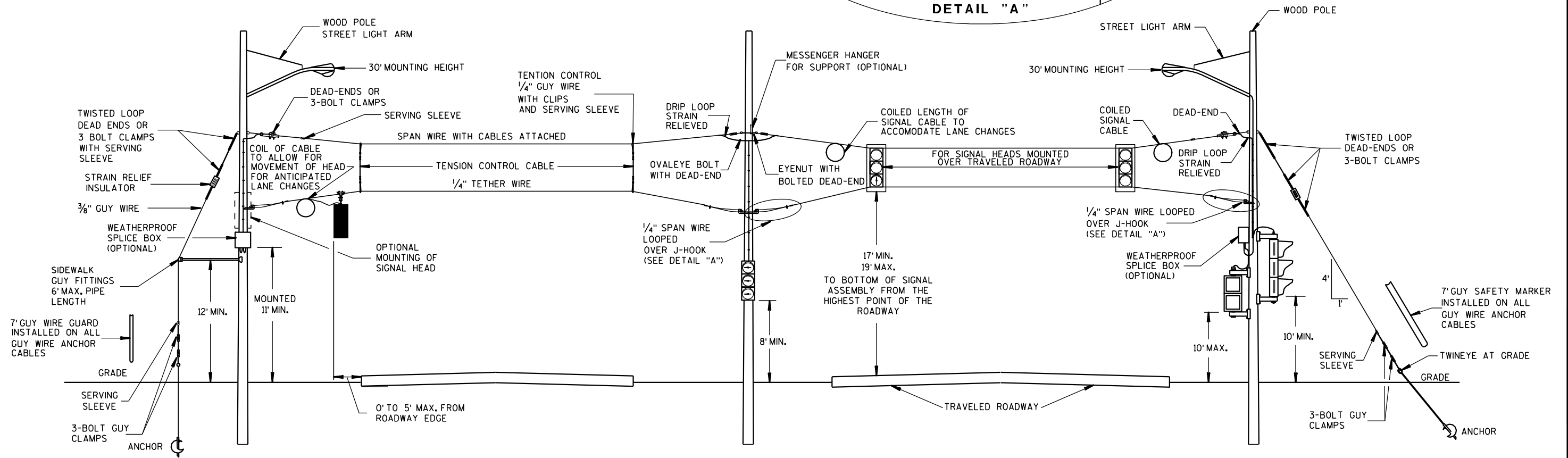
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08
DATE

FHWA

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGINEER FOR HWYS



**SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS**

GENERAL NOTES

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

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 - C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
 - D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
 - E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

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MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

**SPAN WIRE
TEMPORARY TRAFFIC SIGNAL**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

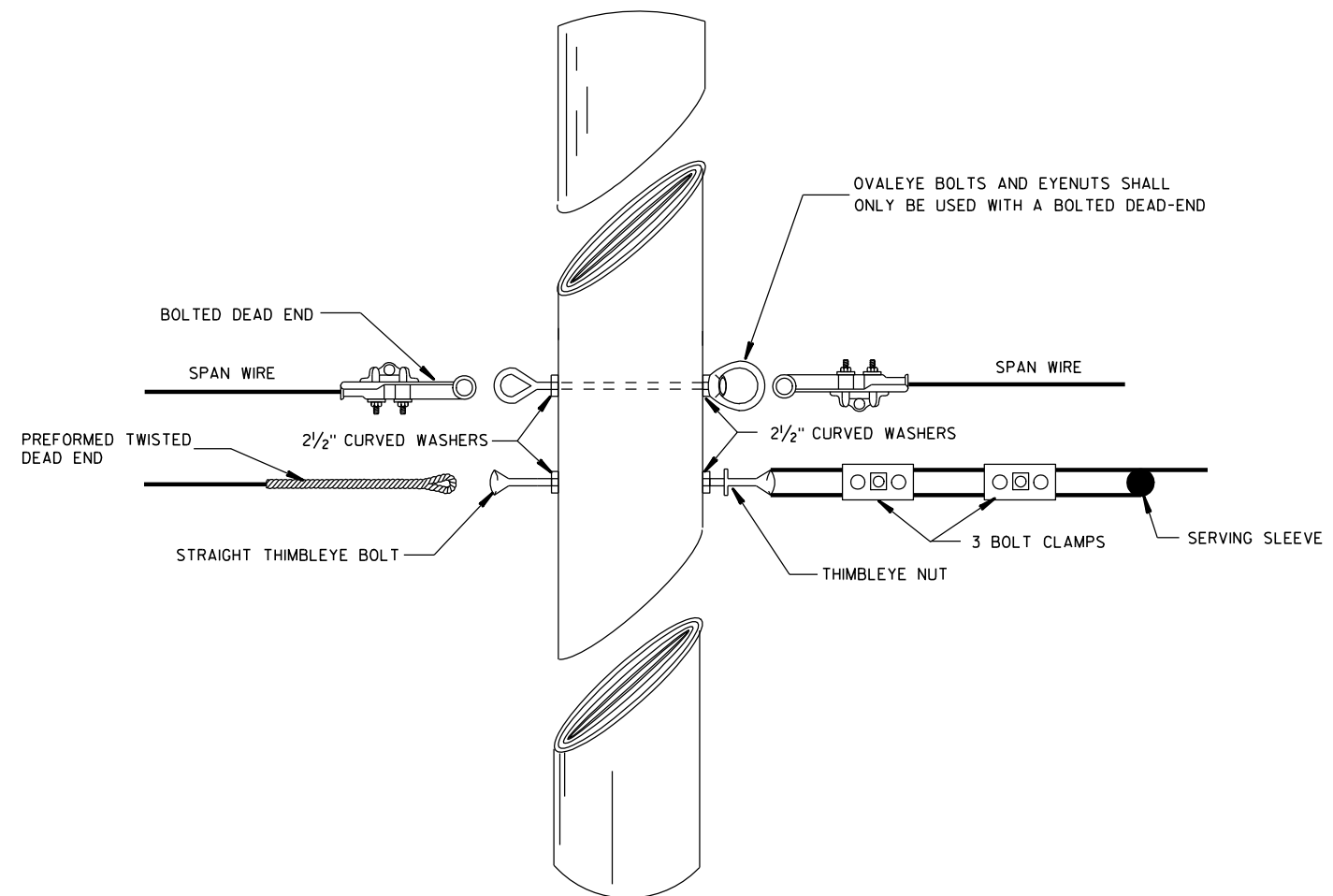
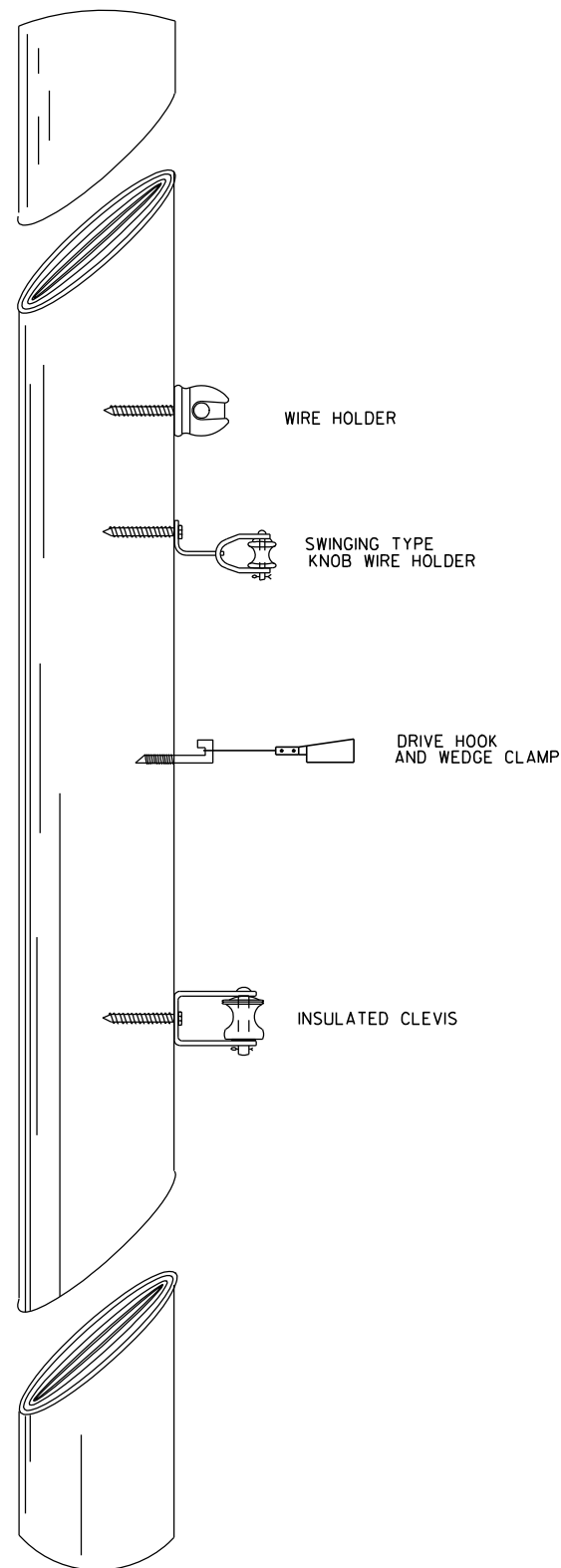
APPROVED

7-14-08
DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGINEER FOR HWYS

FHWA

TYPICAL CABLE HANGERS



TYPICAL DEAD-ENDING

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

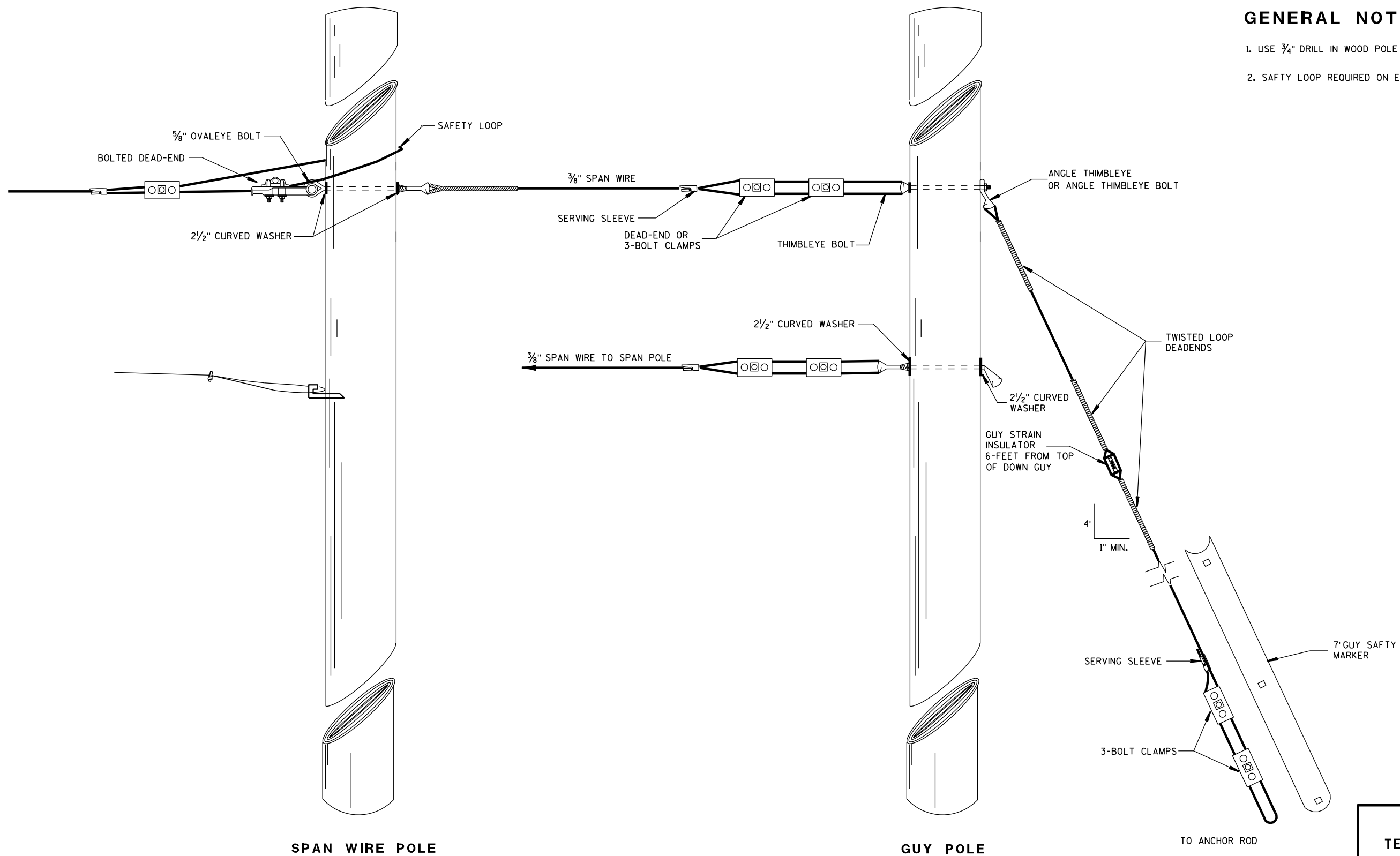
APPROVED

7-14-08

DATE

FHWA

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGINEER FOR HWYS



GENERAL NOTES

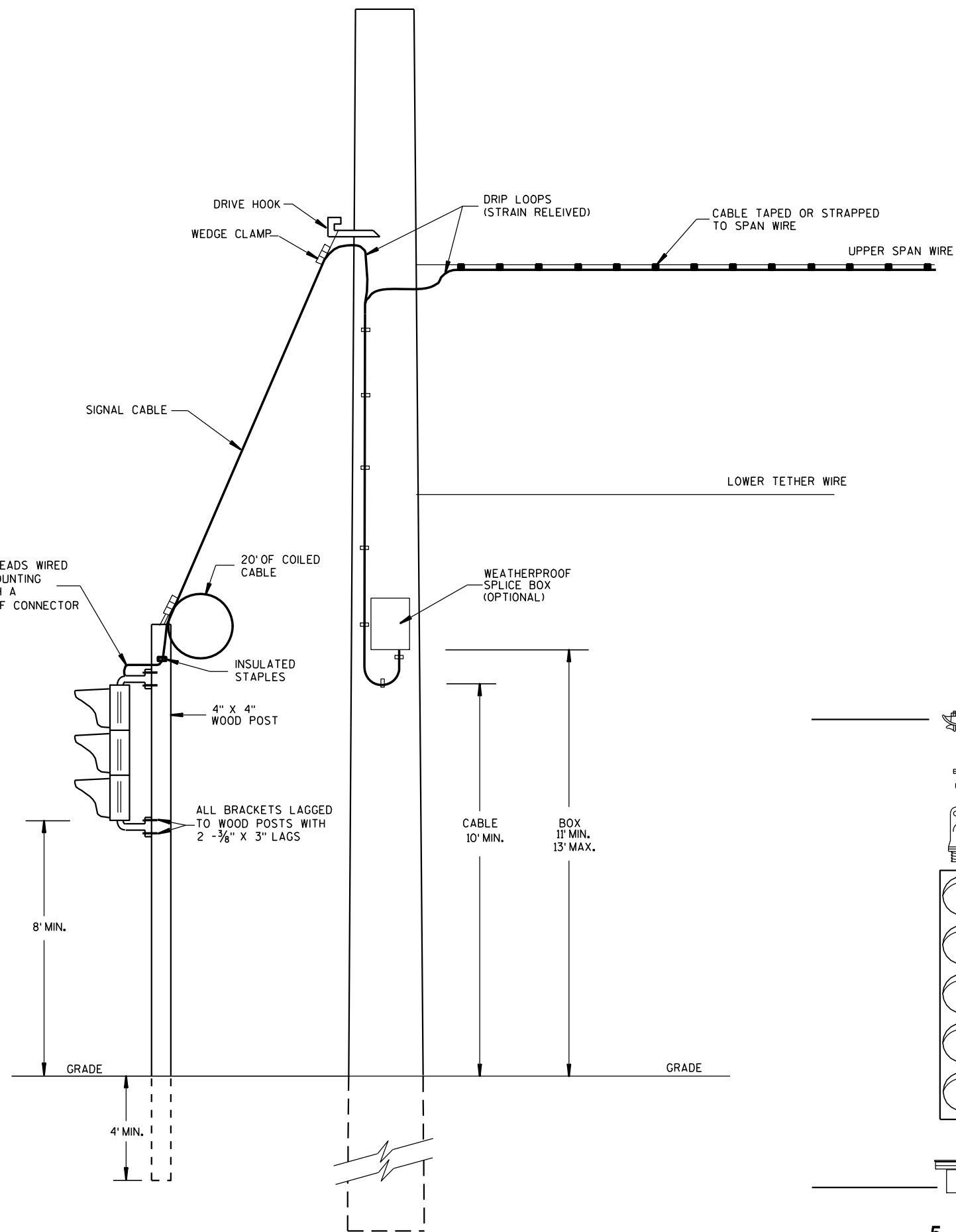
1. USE $\frac{3}{4}$ " DRILL IN WOOD POLE TO PROVIDE HOLE FOR $\frac{5}{8}$ " BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.

TYPICAL DEAD-ENDINGS OR GUYING

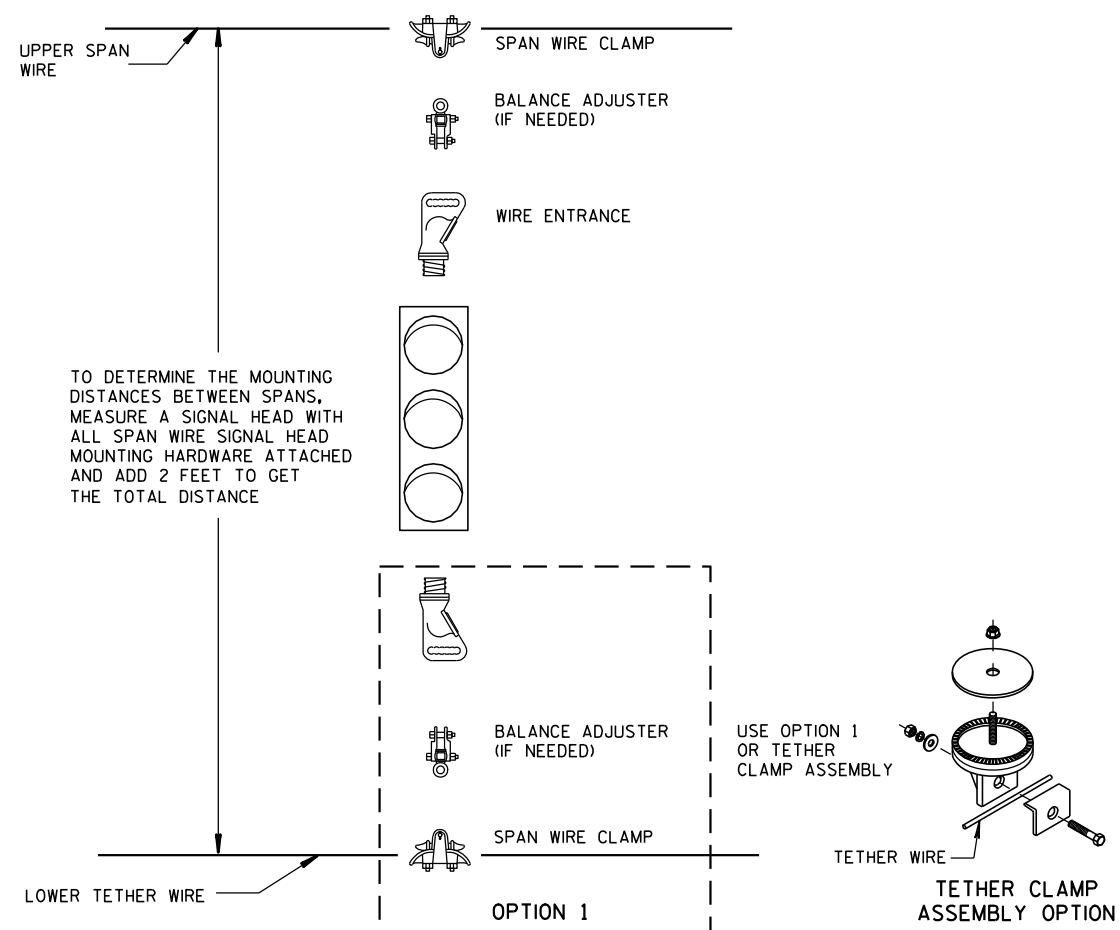
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

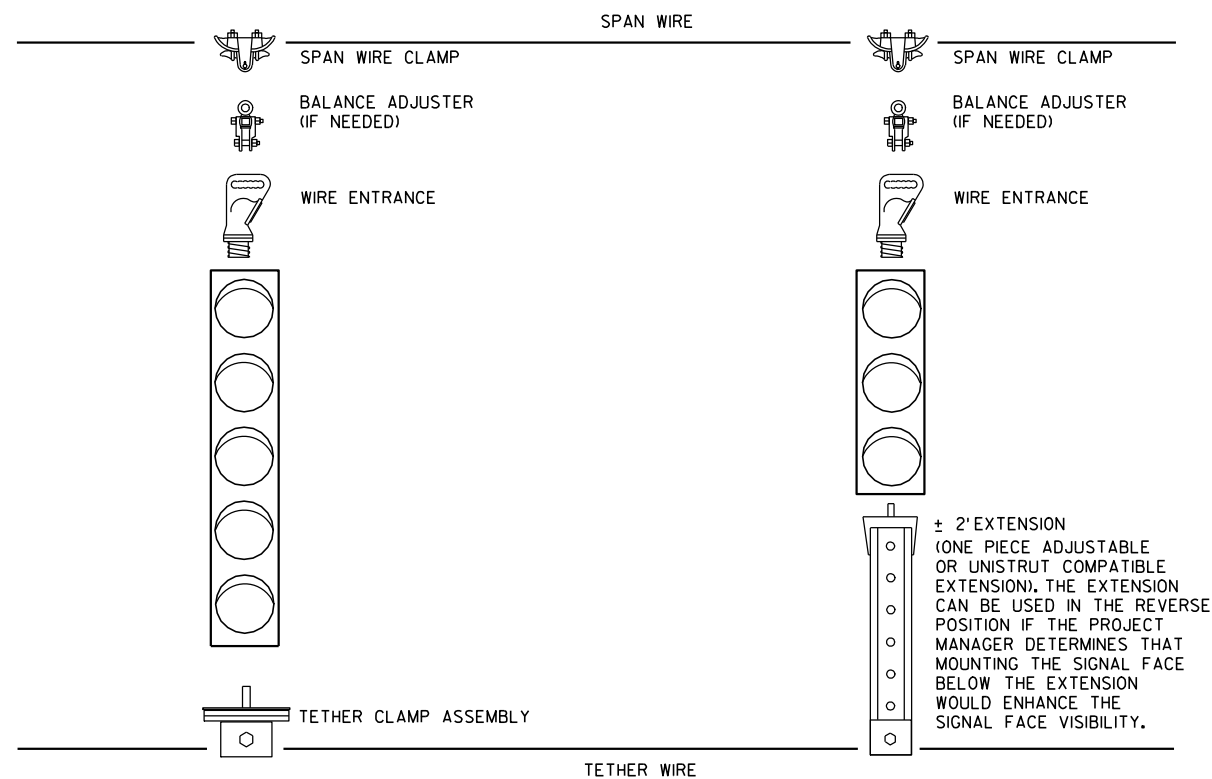
APPROVED
7-14-08
DATE
/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGINEER FOR HWYS
FHWA



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TYPICAL SPAN WIRE MOUNTING HARDWARE



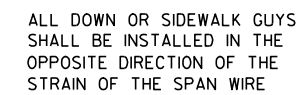
5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE
TEMPORARY TRAFFIC SIGNALSTATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08
DATE/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGINEER FOR HWYS

FHWA



S.D.D. 9 G 1-3g

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

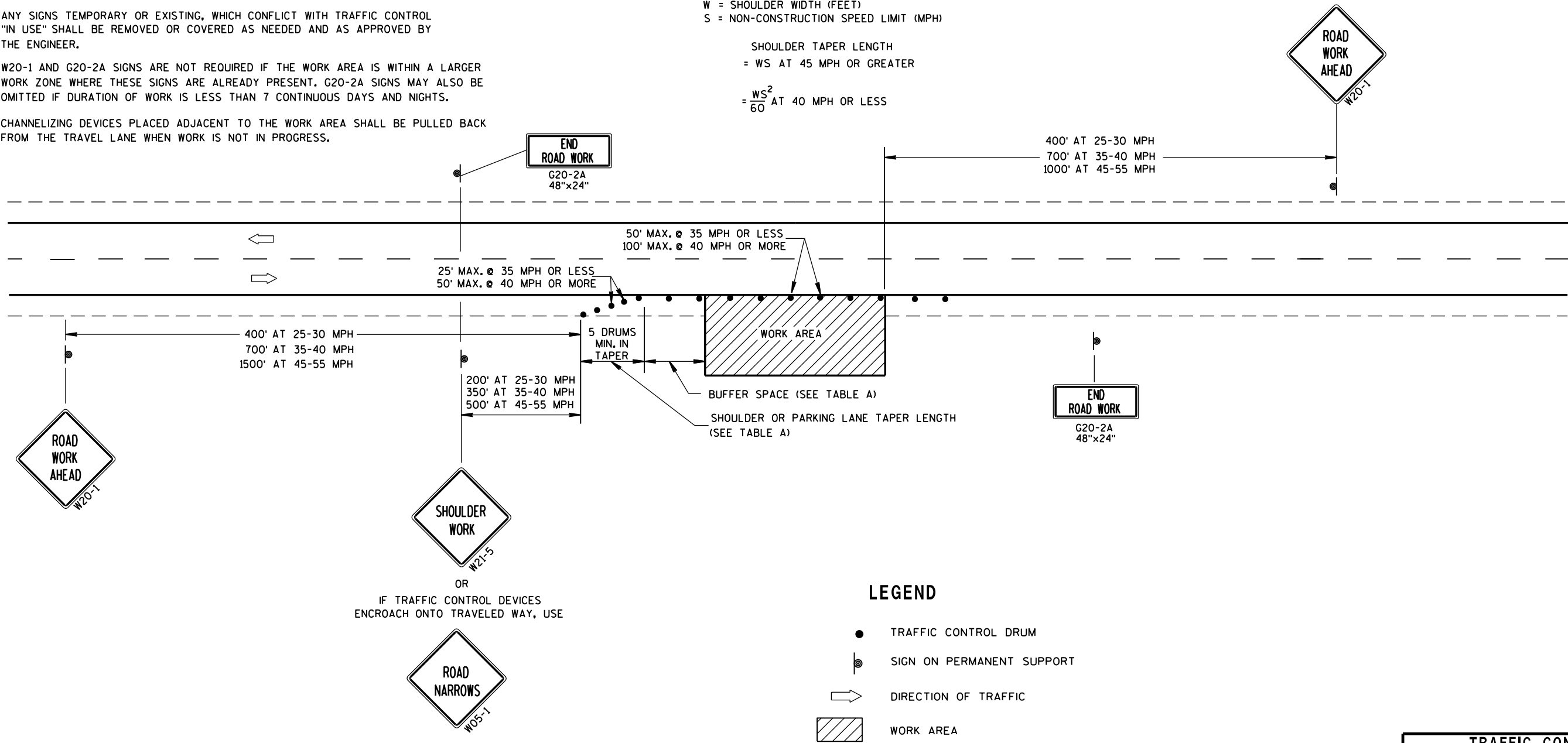
TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

= $\frac{WS^2}{60}$ AT 40 MPH OR LESS



LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 8/2013 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

LEGEND

- SIGN ON PERMANENT SUPPORT
- REMOVING PAVEMENT MARKING
- TYPE III BARRICADE WITH ATTACHED SIGN
- CONCRETE BARRIER TEMPORARY PRECAST
- FLAGS, 16" x 16" MIN., (ORANGE)
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- ASPHALTIC PAVEMENT WIDENING
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

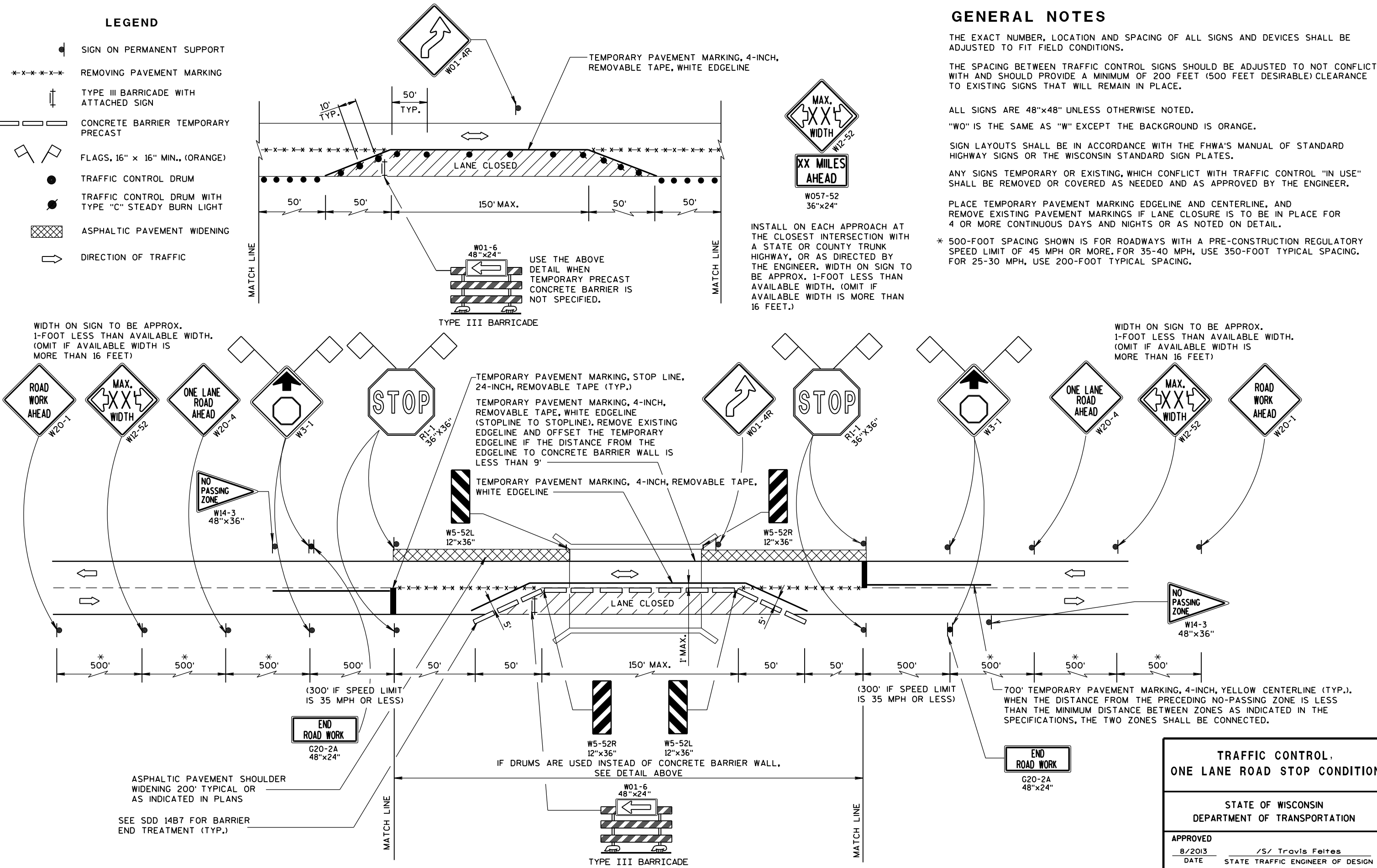
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

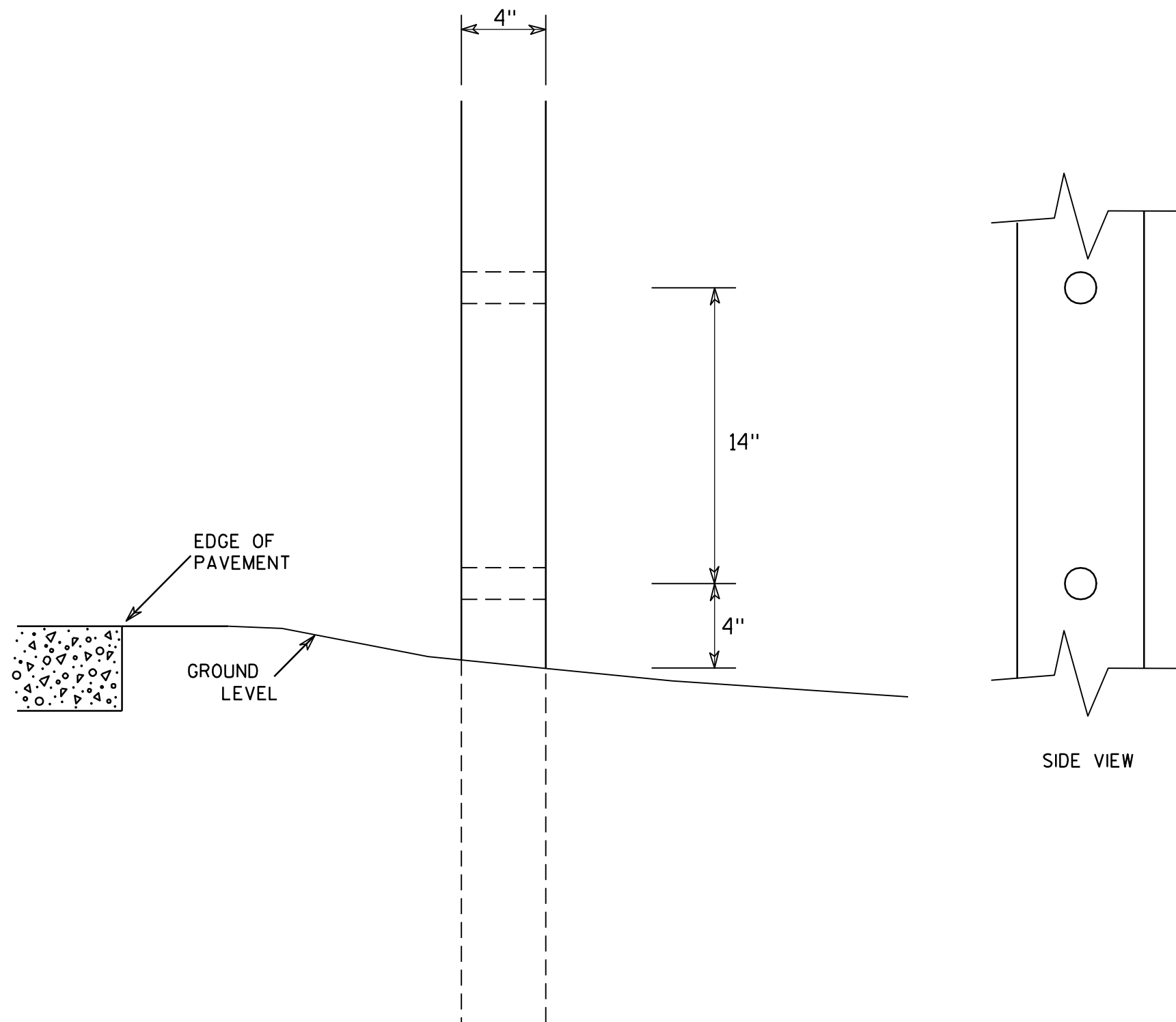
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

PLACE TEMPORARY PAVEMENT MARKING EDGELINE AND CENTERLINE, AND REMOVE EXISTING PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS OR AS NOTED ON DETAIL.

* 500-FOOT SPACING SHOWN IS FOR ROADWAYS WITH A PRE-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350-FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200-FOOT TYPICAL SPACING.



7



GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

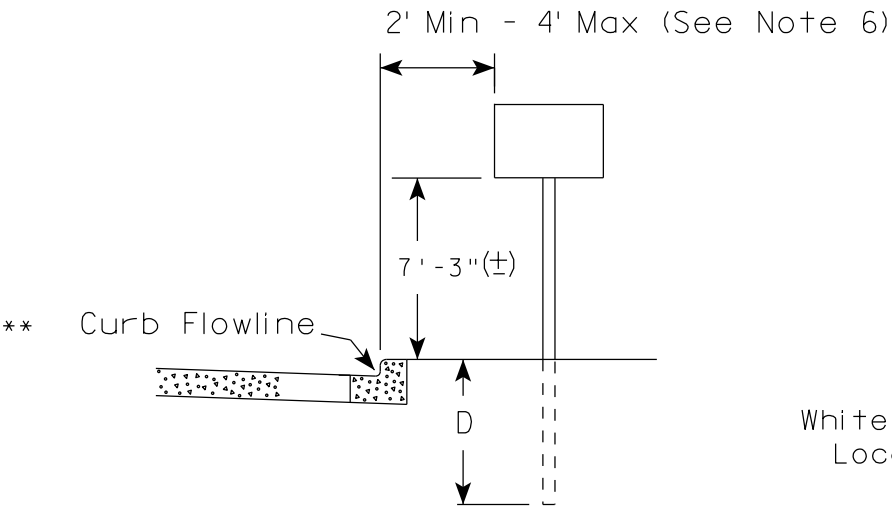
HWY:

COUNTY:

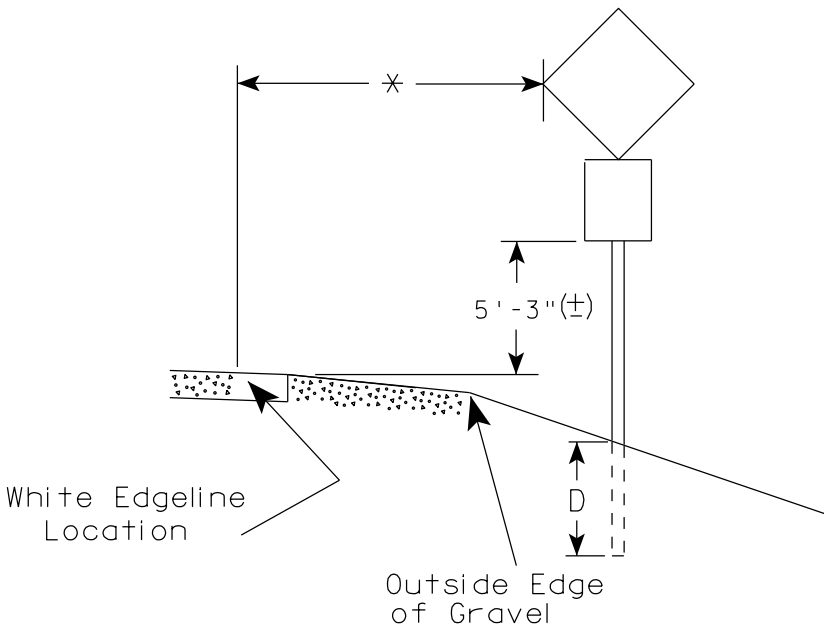
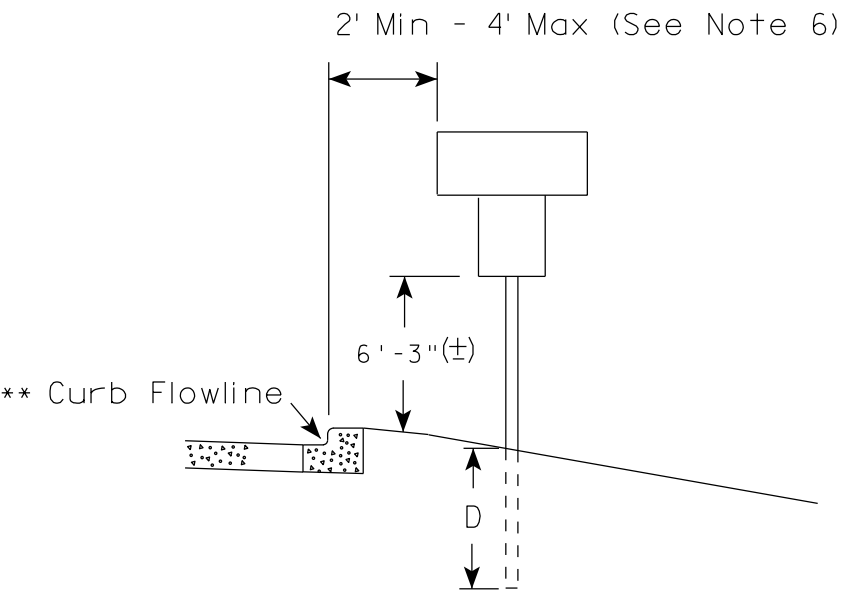
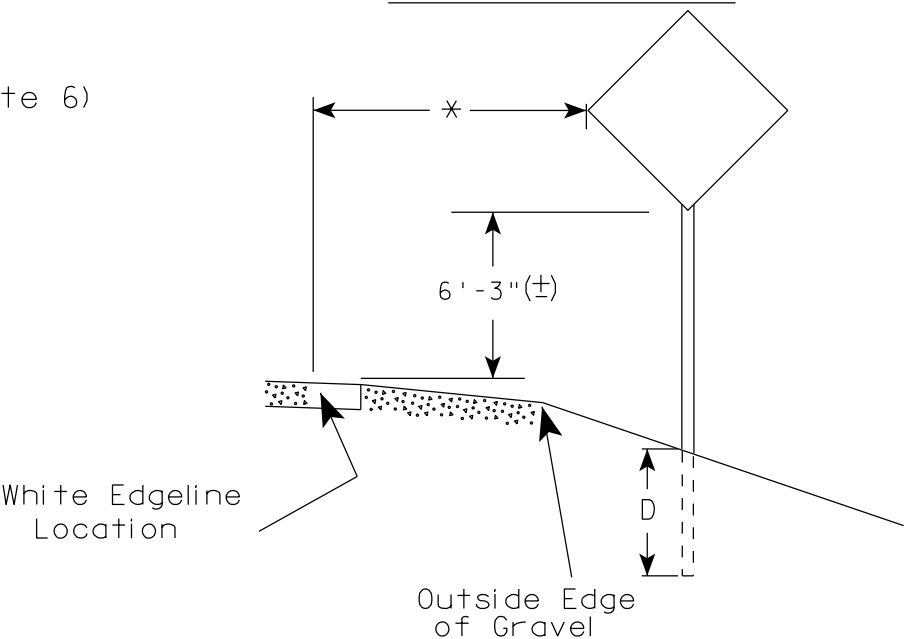
SHEET NO:

E

URBAN AREA



RURAL AREA (See Note 2)



POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

×× The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

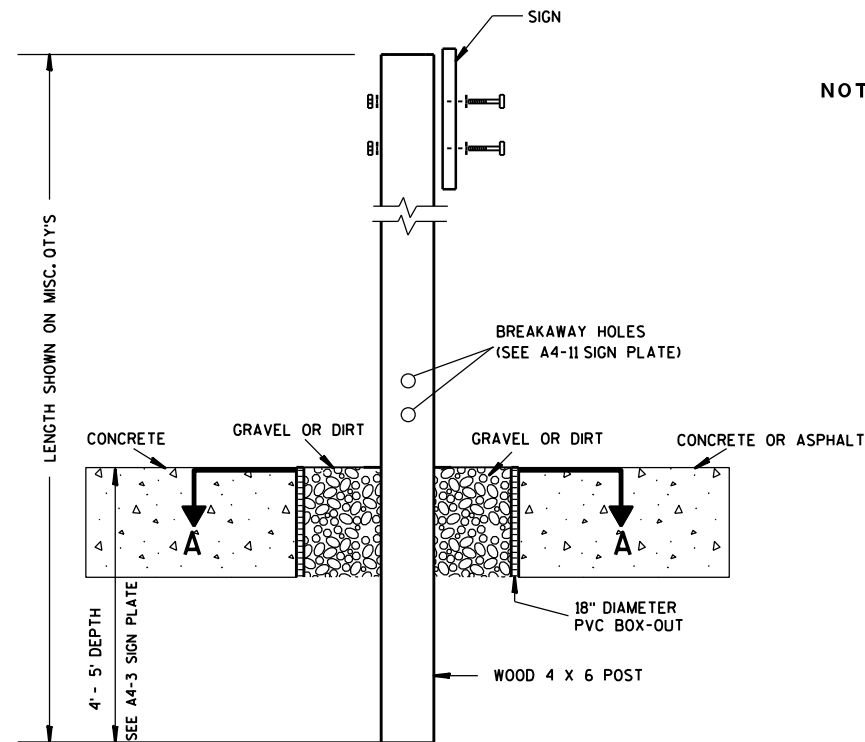
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

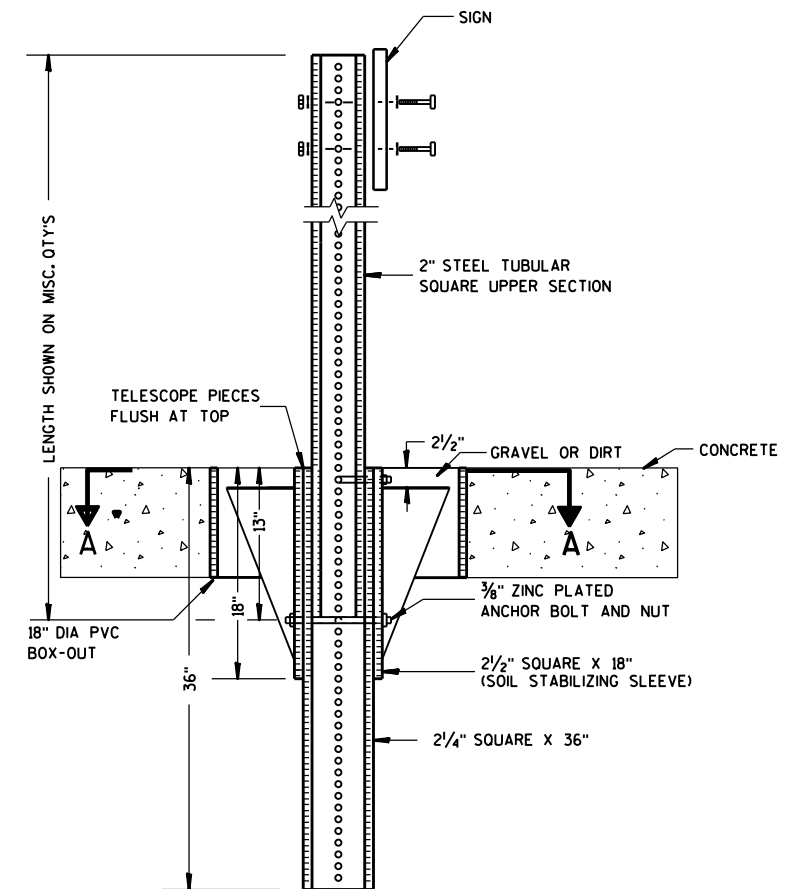
DATE 10/13/14 PLATE NO. A4-3.19



ELEVATION VIEW

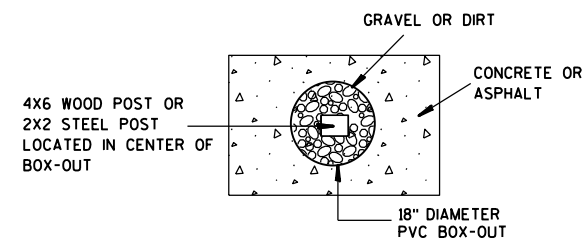
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- NOTES: 1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

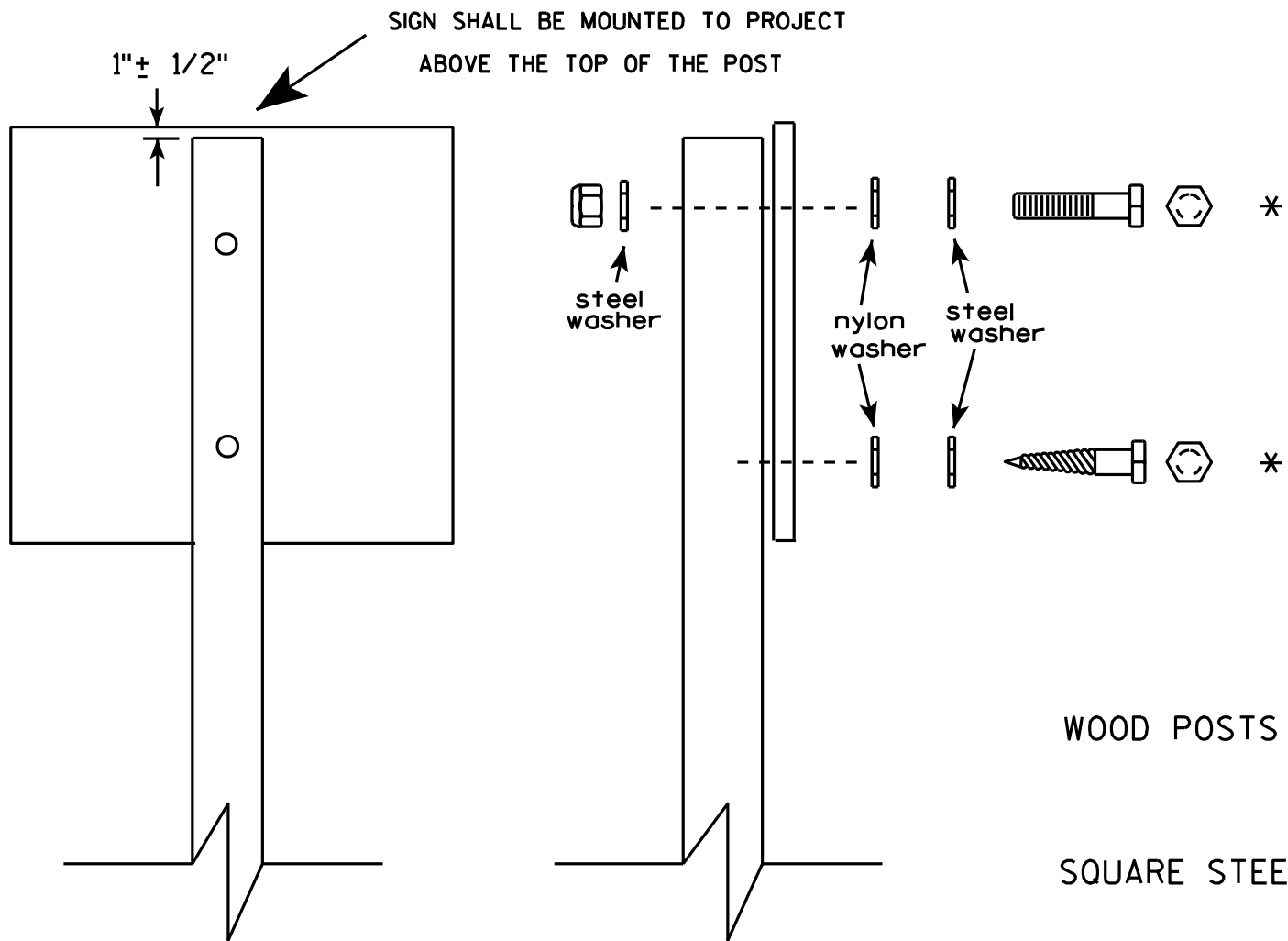
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

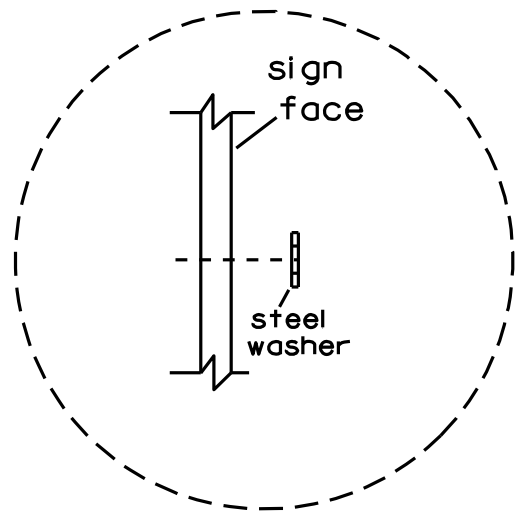


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. 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.

- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3"
- MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
- RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
- 1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



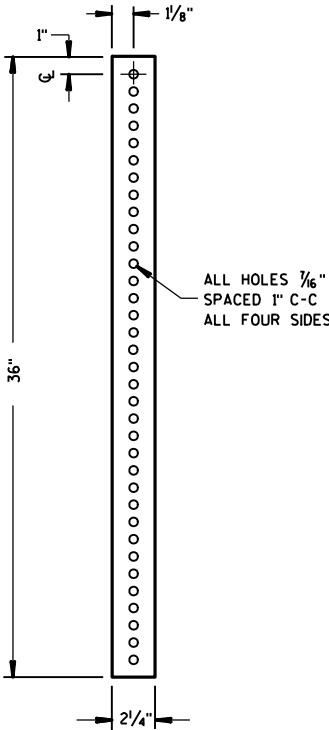
Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

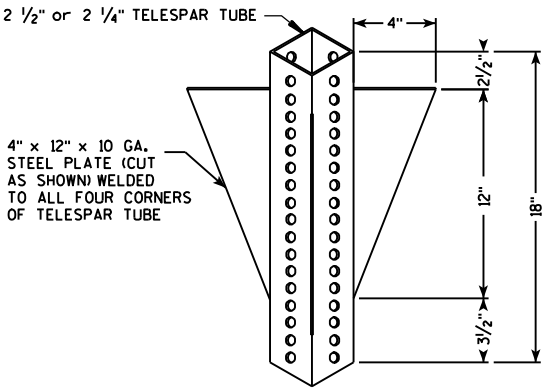
ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

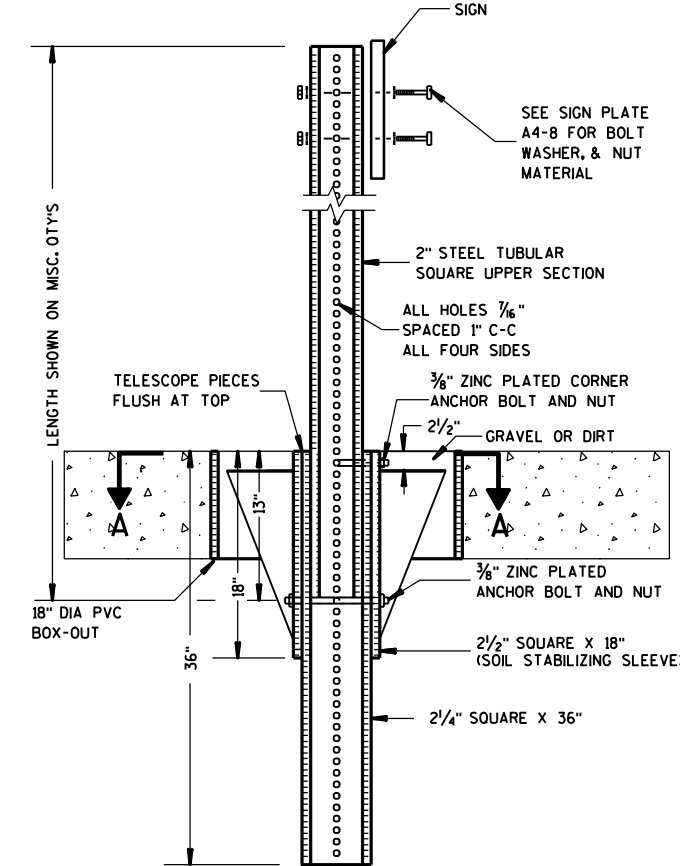
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



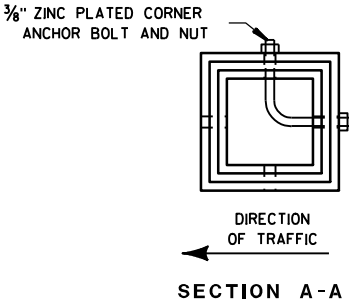
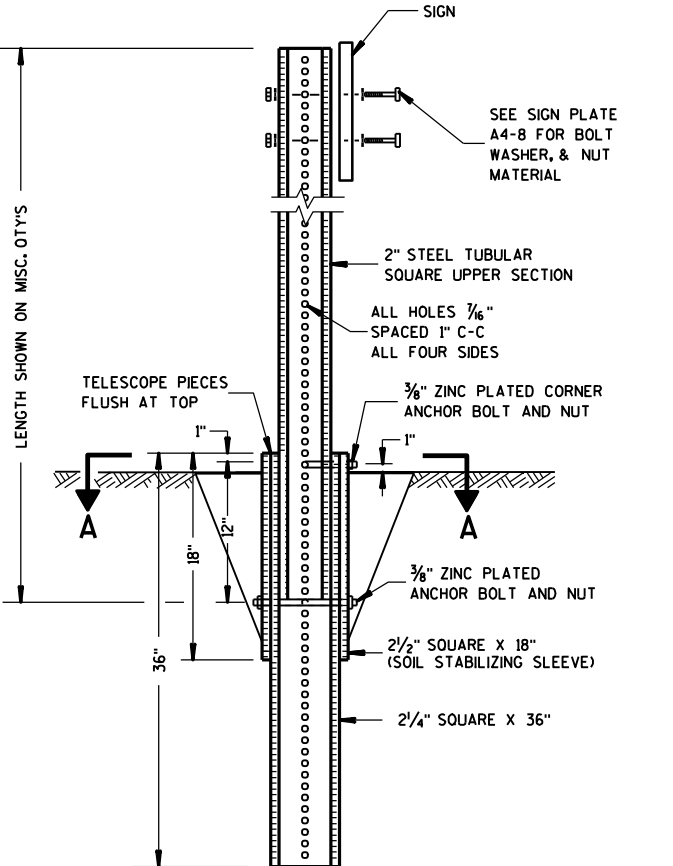
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH



DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



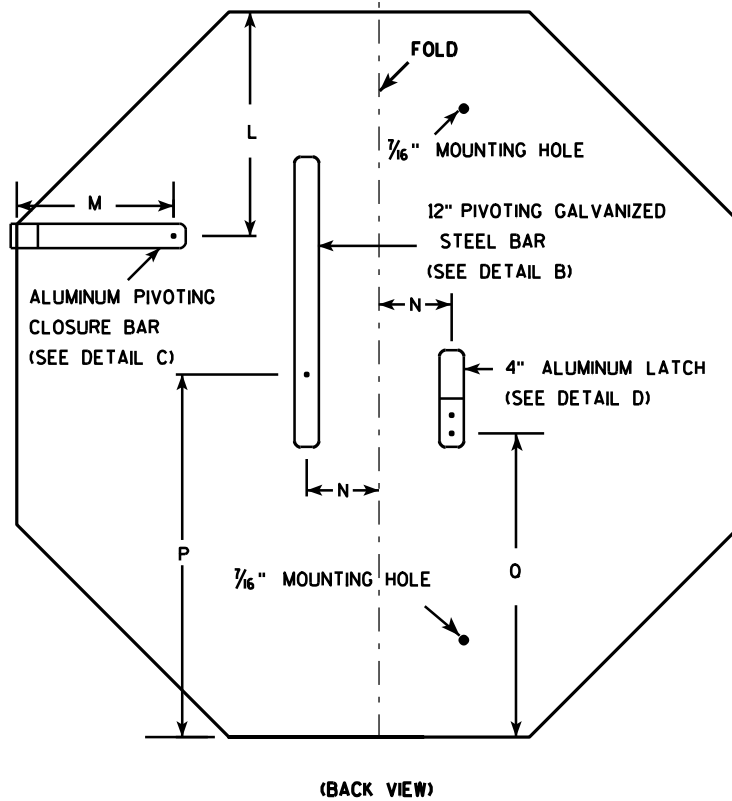
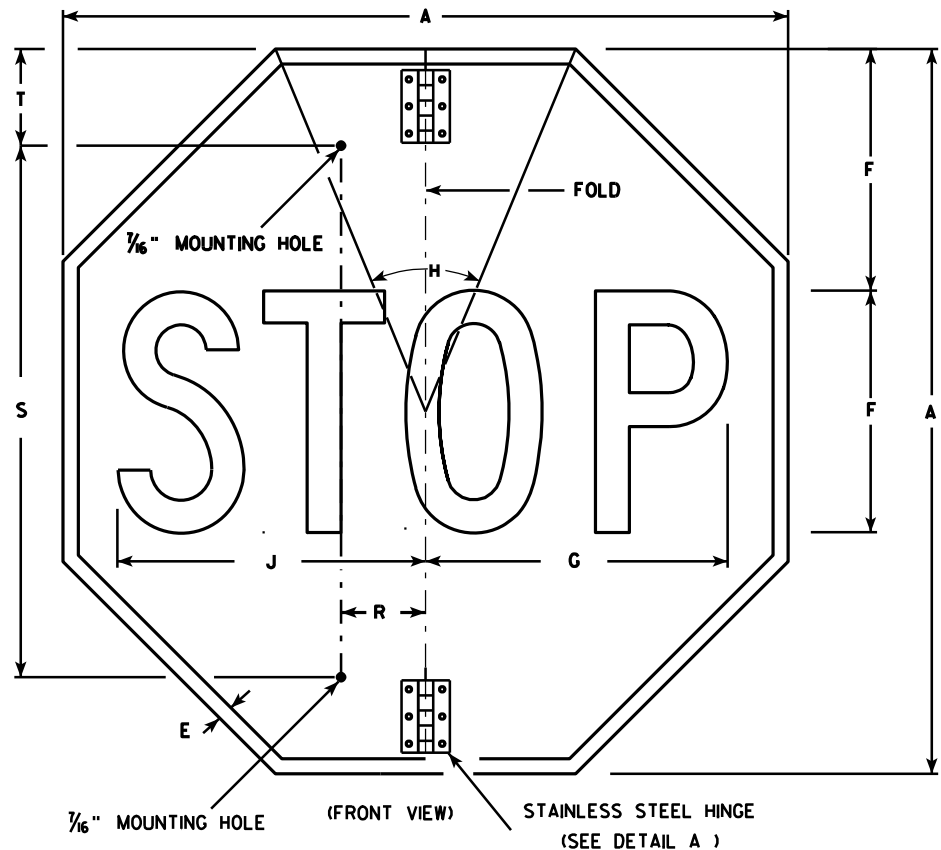
DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)



Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

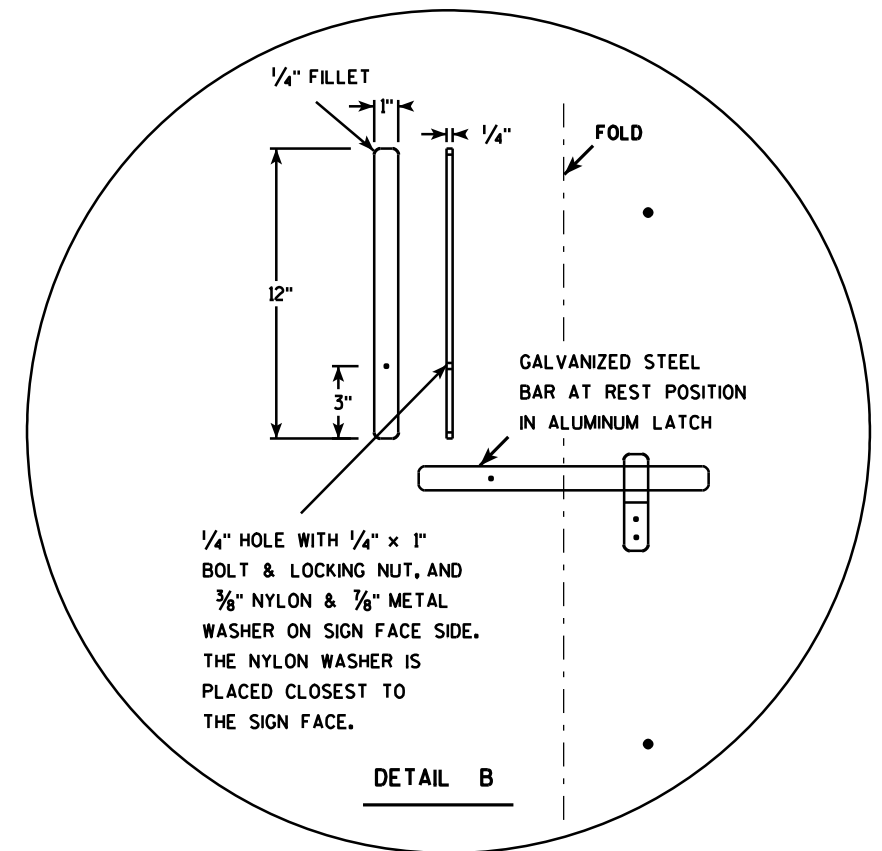
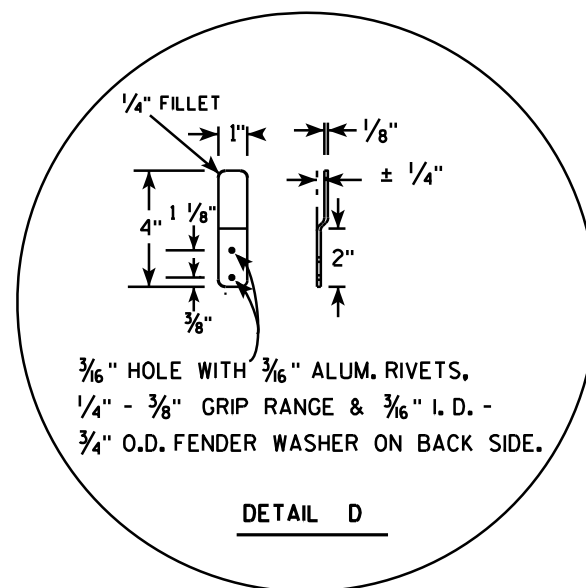
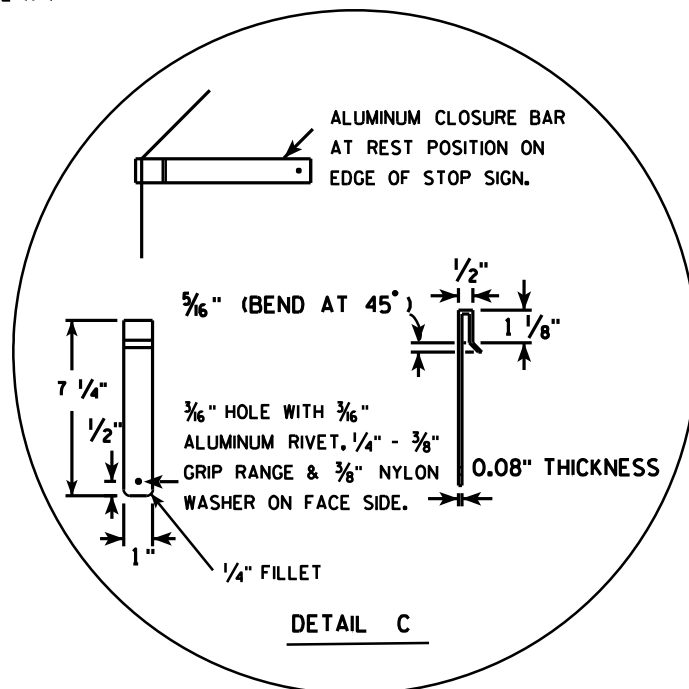
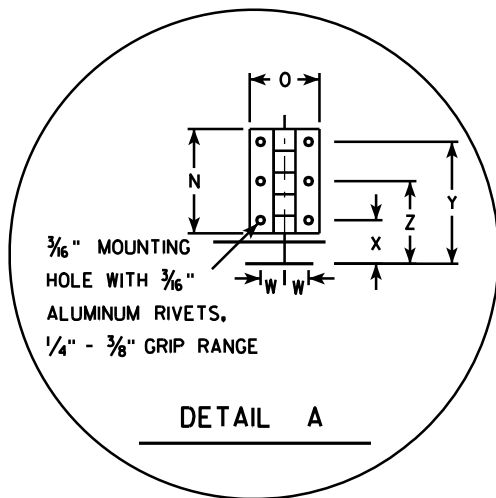
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL SIGN POST A4-9	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 5/30/12	PLATE NO. A4-9.7



NOTES

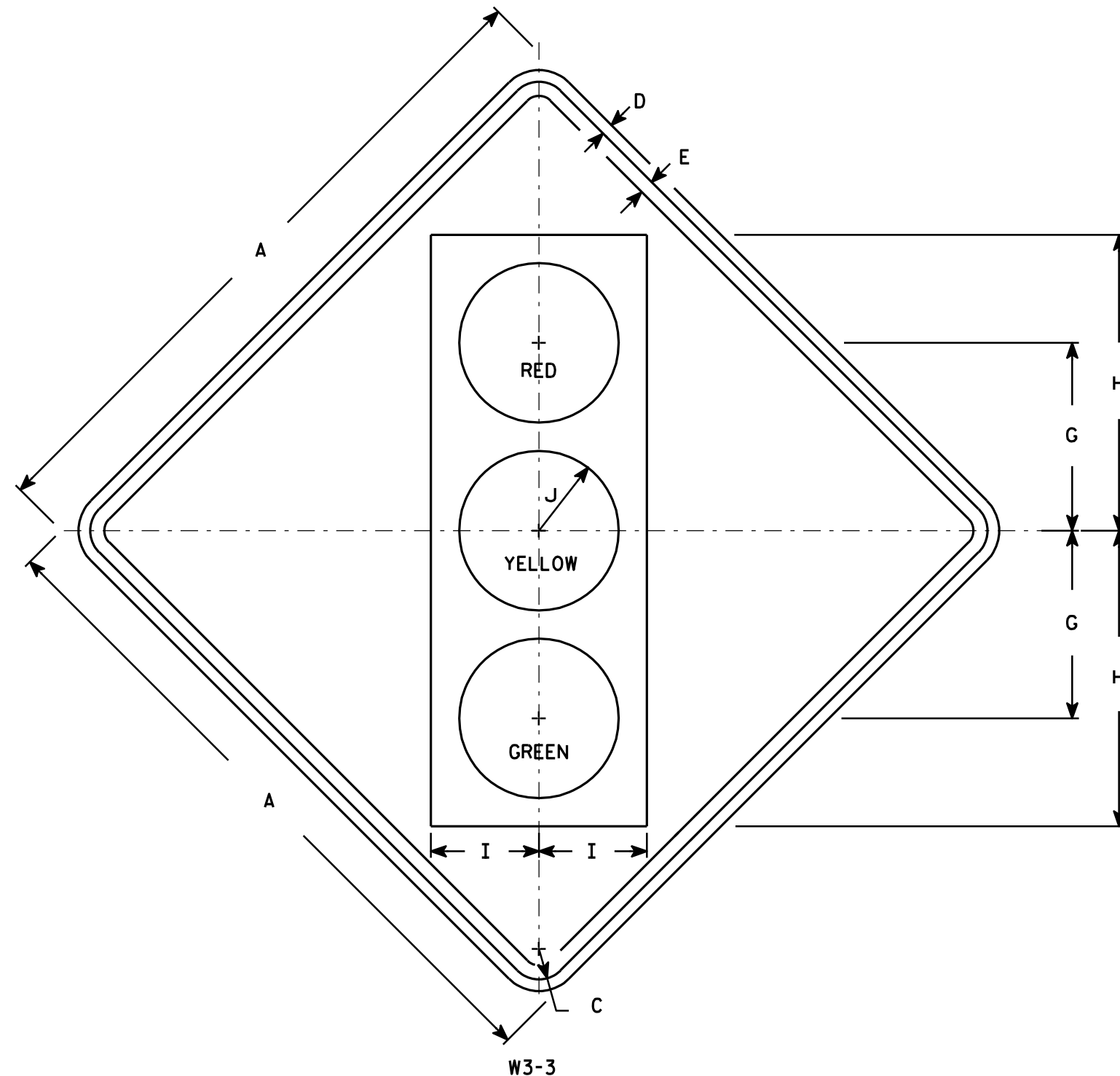
- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Red
Message - White
- Message Series - C
- All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				$\frac{5}{8}$	10	12 $\frac{1}{2}$	45		12 $\frac{3}{4}$		9 $\frac{1}{4}$	6 $\frac{1}{2}$	3	2	15	12 $\frac{3}{8}$	2 $\frac{1}{2}$	22	5			$\frac{1}{16}$	1 $\frac{1}{4}$	3 $\frac{1}{2}$	2 $\frac{3}{8}$	5.18
2M	36				$\frac{3}{4}$	12	15	45		15 $\frac{3}{8}$		11	6 $\frac{1}{2}$	3	2	18	15 $\frac{3}{8}$	2 $\frac{1}{2}$	26	5			$\frac{1}{16}$	1 $\frac{1}{4}$	3 $\frac{1}{2}$	2 $\frac{3}{8}$	7.46
3	36				$\frac{3}{4}$	12	15	45		15 $\frac{3}{8}$		11	6 $\frac{1}{2}$	3	2	18	15 $\frac{3}{8}$	2 $\frac{1}{2}$	26	5			$\frac{1}{16}$	1 $\frac{1}{4}$	3 $\frac{1}{2}$	2 $\frac{3}{8}$	7.46
4																											
5																											

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN R1-1F	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 12/03/10	PLATE NO. R1-1F.3



NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Yellow
Message - See Note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- Symbol and border are non-reflective black.
Top circle - Type H Reflectorized Red
Center circle - Same as background
Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 6/7/10

PLATE NO. W3-3.11

PROJECT NO:

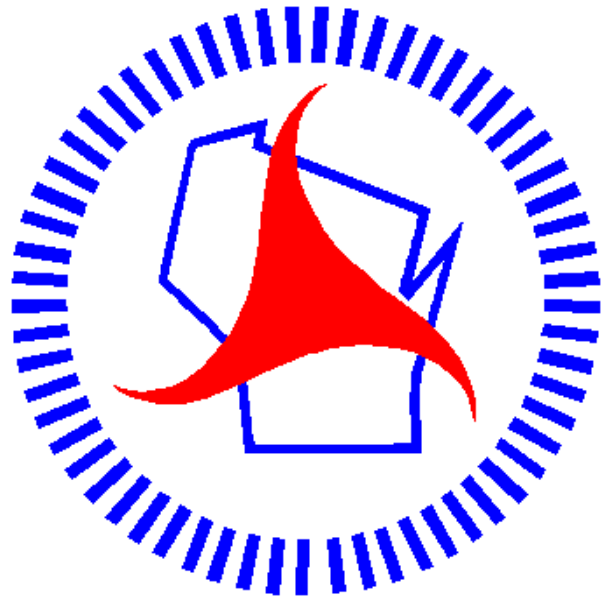
HWY:

COUNTY:

SHEET NO:

E

Notes



Wisconsin Department of Transportation

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