### **NOVEMBER 2016** 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 Plot

Plan and Profile

Section No. 6 Standard Detail Drawings

TOTAL SHEETS = 46

### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

### USH 10 - USH 10/STH 441

COUNTY CB - ONEIDA STREET

**USH 10** 

WINNEBAGO COUNTY

STATE PROJECT NUMBER 1517-75-87

#### RACINE RD RAMP CTH P. S of CTH P. N of DESIGN DESIGNATION CONNECTOR CONNECTOR CONNECTOR 19,200 7,600 A.A.D.T. (2038) = D.H.V. (2038) D.D. DESIGN SPEED ESALS

1111111

PL + 58.1

CONVENTIONAL SYMBOLS PLAN

CORPORATE LIMITS PROPERTY LINE

LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY

PROPOSED OR NEW R/W LINE PROPOSED JOINT LINE SLOPE INTERCEPT REFERENCE LINE

EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

CULVERT (Profile View) UTILITIES COMMUNICATION OVERHEAD COMMUNICATION UNDERGROUND ELECTRIC OVERHEAD ELECTRIC UNDERGROUND SANITARY SEWER STORM SEWER WATER UTILITY PEDESTAL Ħ POWER POLE TELEPHONE POLE 0

PROFILE

GRADE LINE

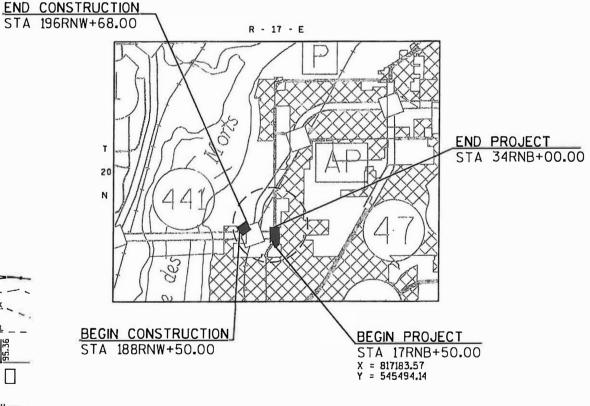
ORIGINAL GROUND MARSH OR ROCK PROFILE

SPECIAL DITCH

GRADE ELEVATION

(To be noted as such)

LABEL \_ \_



LAYOUT

TOTAL NET LENGTH OF ROADWAY CENTERLINE = 0.00 Mi.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (07). COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WINNEBAGO COUNTY, NADB3 (1991)

STATE DDO JEST	FEDERAL PROJECT								
STATE PROJECT	PROJECT	CONTRACT							
1517-75-87	WISC 2016415	1							

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY Surveyor Dasigner SCOTT EBEL Project Monoger Regional Examinar Regional Supervisor CHAD DE GR AVE

ORIGINAL PLANS PREPARED BY

FILE NAME : I:\56537\1517-75-87\+1\cds\010101\_+1.dgn

PLOT DATE : 7/28/2016 9:13:40 AM PLOT BY : dfelber

PLOT NAME :

PLOT SCALE : 10560:1

WISDOT/CADDS SHEET 10

www.DiggersHotline.com

### **UTILITY CONTACTS**

AT&T WISCONSIN

MR. JOSEPH KASSAB

OSPE

221 W. WASHINGTON ST 4TH FLOOR
APPLETON, WI 54911

(920) 735-3206

JK527k@ATT.COM

MR. SCOTT MAUREF
MENASHA UTILITIES
321 MILWAUKEE ST
PO BOX 340
MENASHA, WI 54952
(920) 967-3430

CHARTER COMMUNICATIONS

MR. VINCE ALBIN
CONSTRUCTION COORDINATOR 3
3520 DESTINATION DR
APPLETON, WI 54915
(920) 831-9249
MOBILE: (920) 378-0444
VINCE ALBIN@CHARTER.COM

**CITY OF MENASHA - SANITARY** 

MR. TIM MONTOUR ENGINEERING SUPERVISOR 140 MAIN ST MENASHA, WI 54952 (920) 967-3610 TMONTOUR@CI.MENASHA.WI.US

MENASHA UTILITIES - ELECTRIC

MR. GREG SHULL ELECTRIC DISTRIBUTION TECHNICIAN MENASHA UTILITIES 321 MILWAUKEE ST P.O. BOX 340 MENASHA, WI 54952-0340 (920) 967-3422 MENASHA UTILITIES - WATER

MR. SCOTT MAURER
MENASHA UTILITIES
321 MILWAUKEE ST
PO BOX 340
MENASHA, WI 54952-0340
(920) 967-3430
MOBILE: (920) 707-3733
SMAURER@WPPIENERGY.ORG

TOWN OF MENASHA UTILITY DISTRICT - SANITARY SEWER

MR. JEFF ROTH
WASTEWATER SUPERINTENDENT
2340 AMERICAN DR
NEENAH, WI 54956
(920) 720-7175
JEFFR@TOWN-MENASHA.COM

TOWN OF MENASHA UTILITY DISTRICT- WATER

MR. JEFF ROTH WATER SUPERINTENDENT 2340 AMERICAN DR NEENAH, WI 54956 (920) 720-7175 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@TDSTELECOM.COM

WE ENERGIES - ELECTRIC AND GAS

MR. LATROY BRUMFIELD
333 W EVERETT ST A299
MILWAUKEE, WI 53203
(414) 221-5617
MOBILE: (414) 975-9053
LATROY.BRUMFIELD@.WE-ENERGIES.COM

WE ENERGIES - ELECTRIC

MR. CHRIS SCHULZ
MAJOR PROJECTS ENGINEER
500 S 116TH ST
WEST ALLIS, WI 53214
(414) 944-5553
CHRIS.SCHULZ@WE-ENERGIES.COM

WE ENERGIES - GAS
MR. CODY BECKMAN
P.O. BOX 1699
APPLETON, WI 54912
(920) 380-3422
CODY.BECKMAN@WE-ENERGIES.COM

CONSTRUCTION DETAILS
EXISTING UTILITY PLAN
PLANTING

GENERAL NOTES

PROJECT OVERVIEW

LIGHTING PLANS

**DESIGN CONTACTS** 

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

DAVID FELBER HNTB CORPORATION 11414 WEST PARK PLACE MILWAUKEE, WI 53224 (414) 359 - 2300 DFELBER@HNTB.COM

	ALIGNMENT IDENTIFIERS
CDW	CITGO DRIVEWAY
CGS	CITGO GAS STATION DRIVEWAY
CNB	RACINE ROAD CONNECTOR NB
CSB	RACINE ROAD CONNECTOR SB
EB	USH 10 EB / STH 441 NB
PDQ	PDQ DRIVEWAY
RNB	RACINE ROAD NB
RNE	RACINE ROAD NE RAMP
RNW	RACINE ROAD NW RAMP
RRN	USH 10 WB / STH 441 SB RAMP ROUNDABOUT
RRT	RACINE ROAD ROUNDABOUT
RSB	RACINE ROAD SB
RSE	RACINE ROAD SE RAMP
RSEC	RACINE ROAD SE BY PASS
RSW	RACINE ROAD SW RAMP
RSWC	RACINE ROAD SW BYPASS
SDW	SPILSKI DRIVEWAY
TWS	12TH STREET
WB	USH 10 WB / STH 441 SB

### **DNR AREA LIAISON**

GSHULL@WPPIENERGY.ORG

JAY SCHIEFELBEIN DEPARTMENT OF NATURAL RESOURCES 2984 SHAWANO AVENUE GREEN BAY, WI 54313 (920) 662-5130 JEREMIAH.SCHIEFELBEIN@WISCONSIN.GOV

## WINNEBAGO COUNTY HIGHWAY COMMISSIONER

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

### **COUNTY SURVEYOR**

JERRY BOUGIE WINNEBAGO COUNTY COURT HOUSE 445 ALGIMA BLVD OSHKOSH, WI 54903 (920) 236-4839

### **US ARMY CORP OF ENGINEERS**

NICK DOMER OLD FORT SQUARE 211 N. BROADWAY, STE 221 GREEN BAY, WI 54303 (920) 448-2824

PROJECT NO: 1517-75-87 HWY: USH 10 COUNTY: WINNEBAGO GENERAL NOTES SHEET: **E** 

FILE NAME: 1:\56537\1517-75-87\t1\cds\\020101\_gn.ppt PLOT BY: PLOT NAME : 020101\_gn1 PLOT SCALE : 1:1

### **GENERAL NOTES**

NO EXISTING TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

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

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTLITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS, ANDWATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDER DAYS. SEED THE STOCKPILE WITH TEMPORARY SEED.

FERTILIZER SHALL NOT BE USED WITHIN 20' OF NAVIGABLE WATERWAYS OR WETLANDS.

TRAFFIC OCNTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. ALL TRAFFIC CONTROL DEVICES AND SETUPS SHALL BE COMPLIANT WITH THE MUTCD.

### **ABBREVIATIONS**

AEW APRON END WALL

AGGREGATE AGG

BAD BASE AGGREGATE DENSE

BENCH MARK

C&G CURB AND GUTTER

C/L CENTER OR CONSTRUCTION LINE CMCP CULVERT PIPE CORRUGATED METAL

CONC CONCRETE

CP CULVERT PIPE

CPRC CULVERT PIPE REINFORCED CONCRETE

CSD CONCRETE SURFACE DRAIN

CY CUBIC-YARD

D DEGREE OF CURVE

DELTA Δ

DISCH DISCHARGE

ENERGY ABSORBING TERMINAL EOP EDGE OF PAVEMENT

FE FIELD ENTRANCE

HMA HOT MIX ASPHALT

INVERT INV

LENGTH OF CURVE L

LHF LEFT HAND FORWARD

LT LEFT

MINIMUM MIN

M/L MATCHLINE

NB NORTHBOUND

NC NORMAL CROWN

PAVT PAVEMENT

PC POINT OF CURVE

PCC POINT OF COMPOUND CURVE

PΕ PRIVATE ENTRANCE

POINT OF INTERSECTION PI

PLE PERMANENT LIMITED EASMENT

PT POINT OF TANGENT

R RADIUS OF CURVE

R/L REFERENCE LINE

R/W RIGHT OF WAY

RC REVERSE CROWN

RCAEW APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE

REQD REQUIRED

RHF RIGHT HAND FORWARD

RO RUN OFF LENGTH RRSP RAILROAD SPIKE

RT RIGHT

SALV SALVAGED

SAPBC SALVAGED ASPHALTIC PAVEMENT BASE COARSE

SB SOUTHBOUND

SDD STANDARD DETAIL DRAWINGS

SE SUPER ELEVATION

SQUARE FOOT

SSPRC STORM SEWER PIPE REINFORCED CONCRETE

STATION STA

SY SQUARE YARD

TANGENT LENGTH Т

TLE TEMPORARY LIMITED EASEMENT

VERTICAL CURVE LENGTH VCL VPC POINT OF VERTICAL CURVE

POINT OF VERTICAL INTERSECTION

VPT POINT OF VERTICAL TANGENT

SHEET: FILE NAME: I:\56537\1517-75-87\t1\cds\020101\_gn.ppt PLOT DATE: 8/1/2016 8:24:08 AM PLOT BY :

PROJECT NO: 1517-75-87

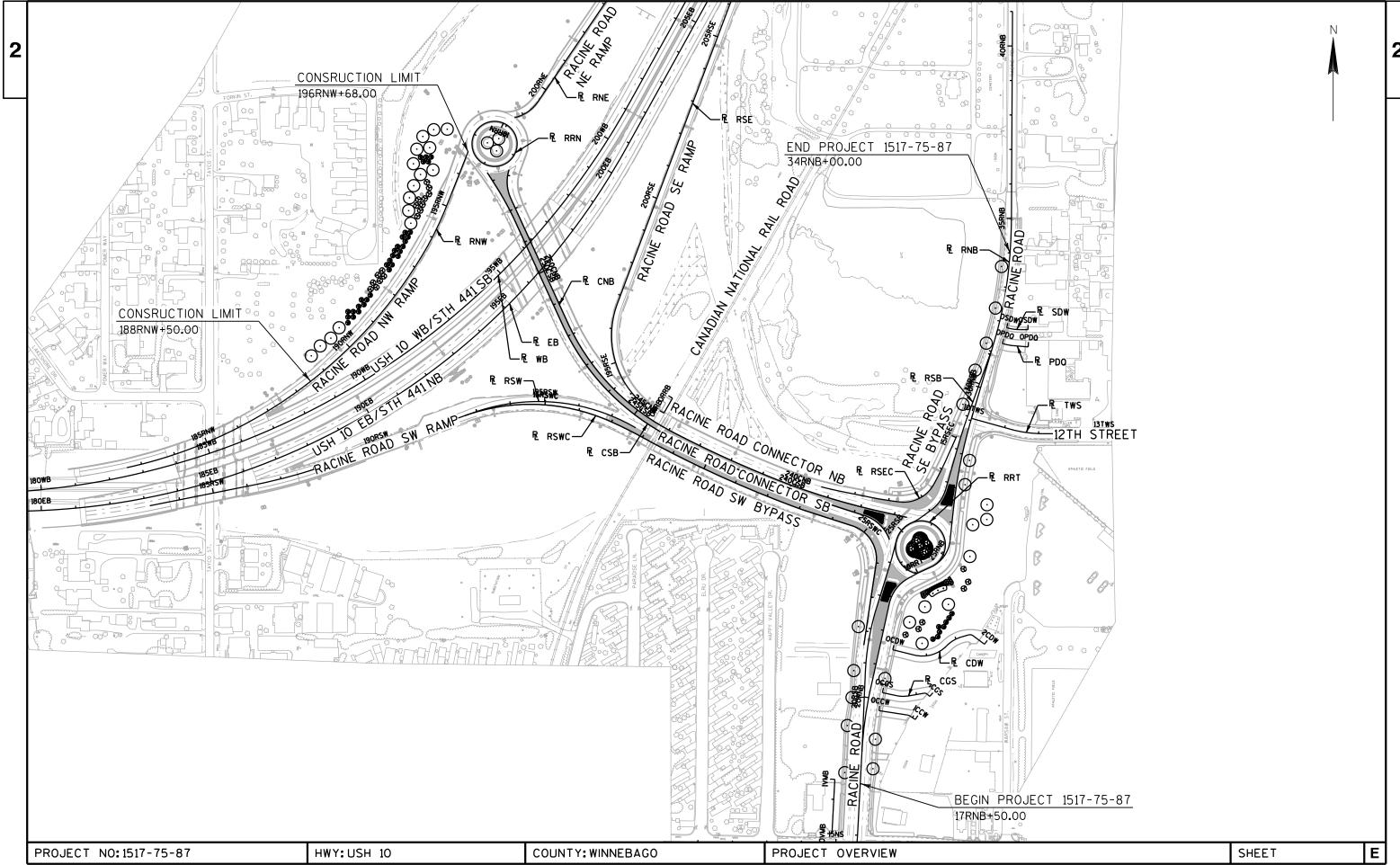
HWY: USH 10

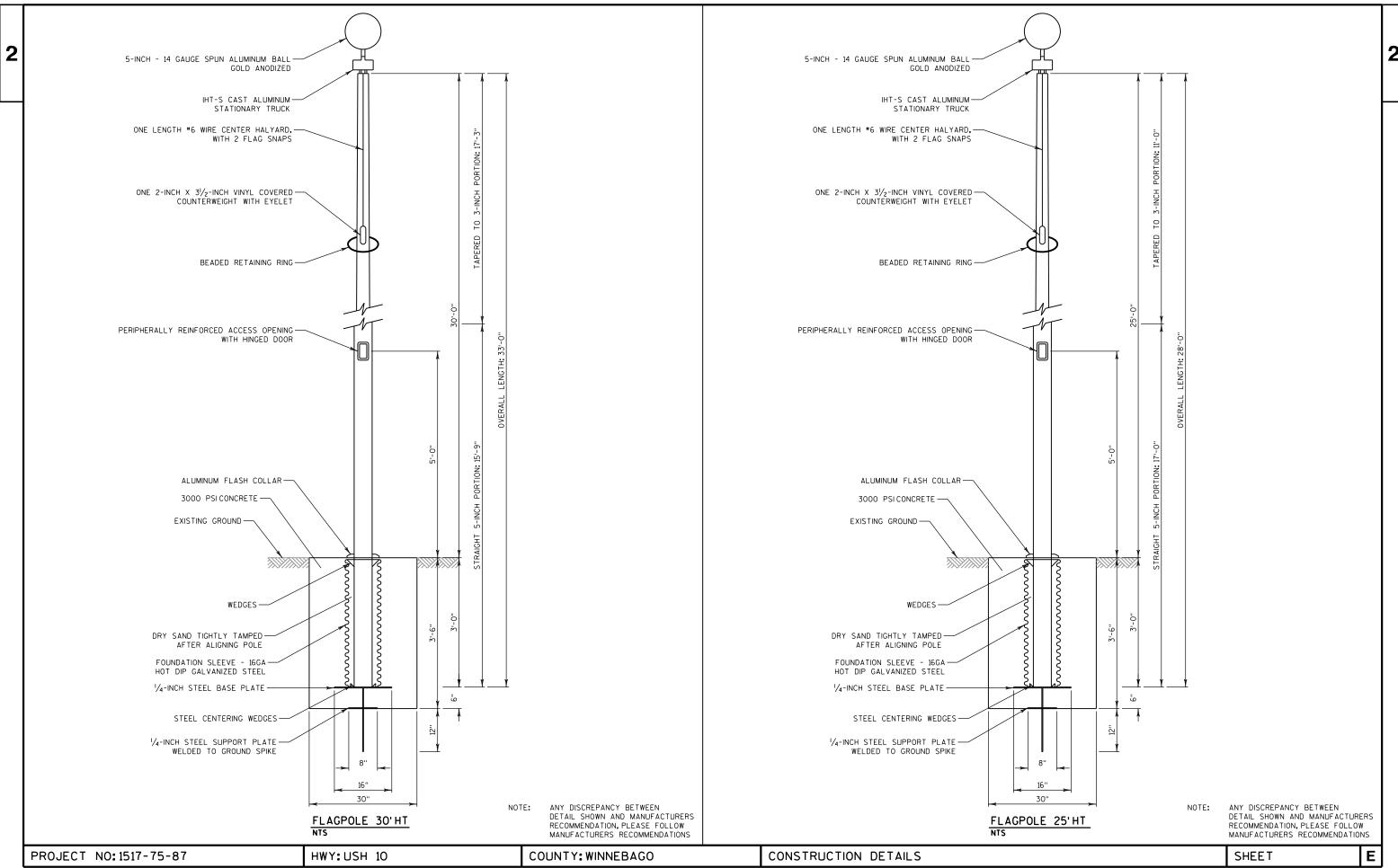
COUNTY: WINNEBAGO

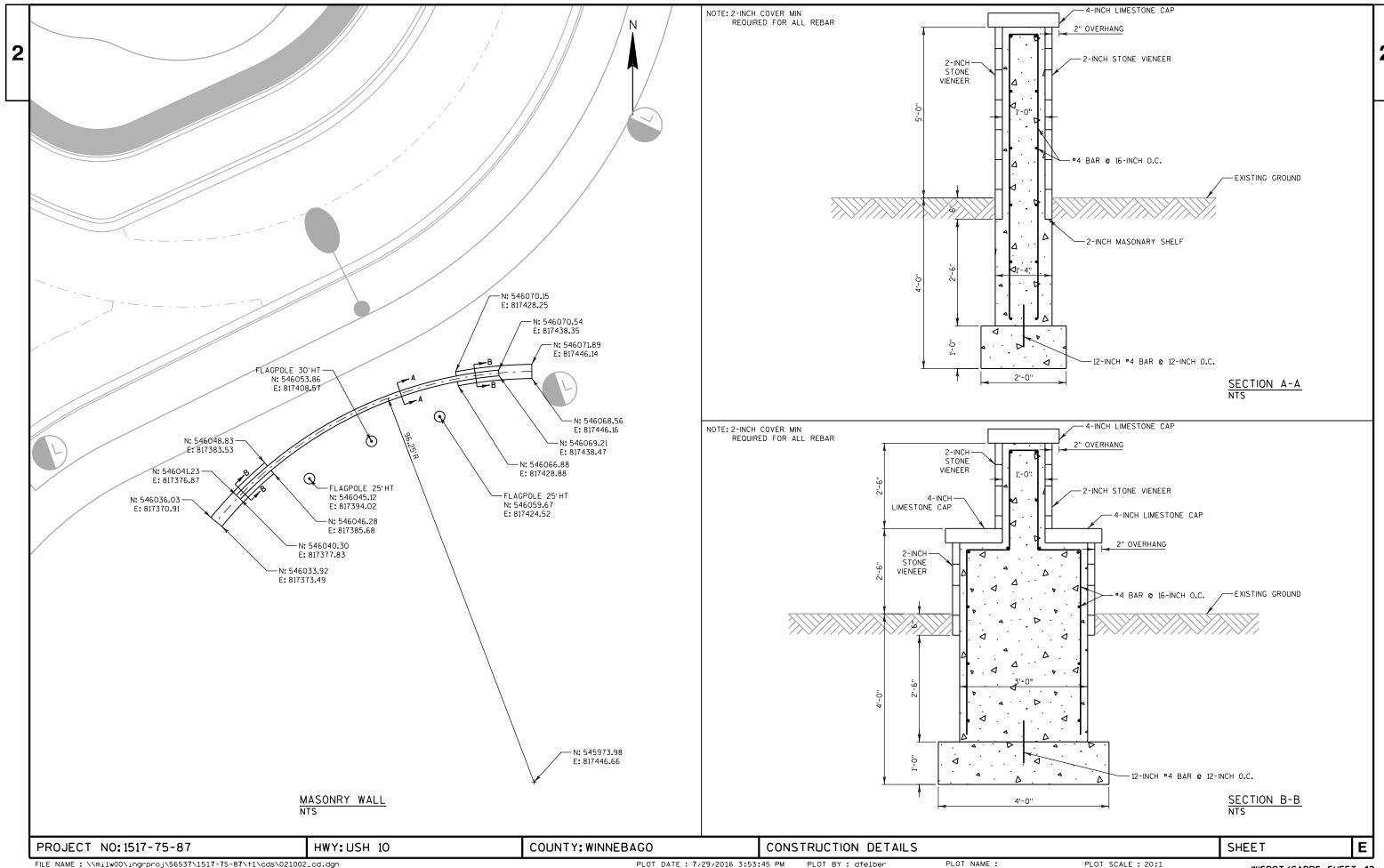
**GENERAL NOTES** 

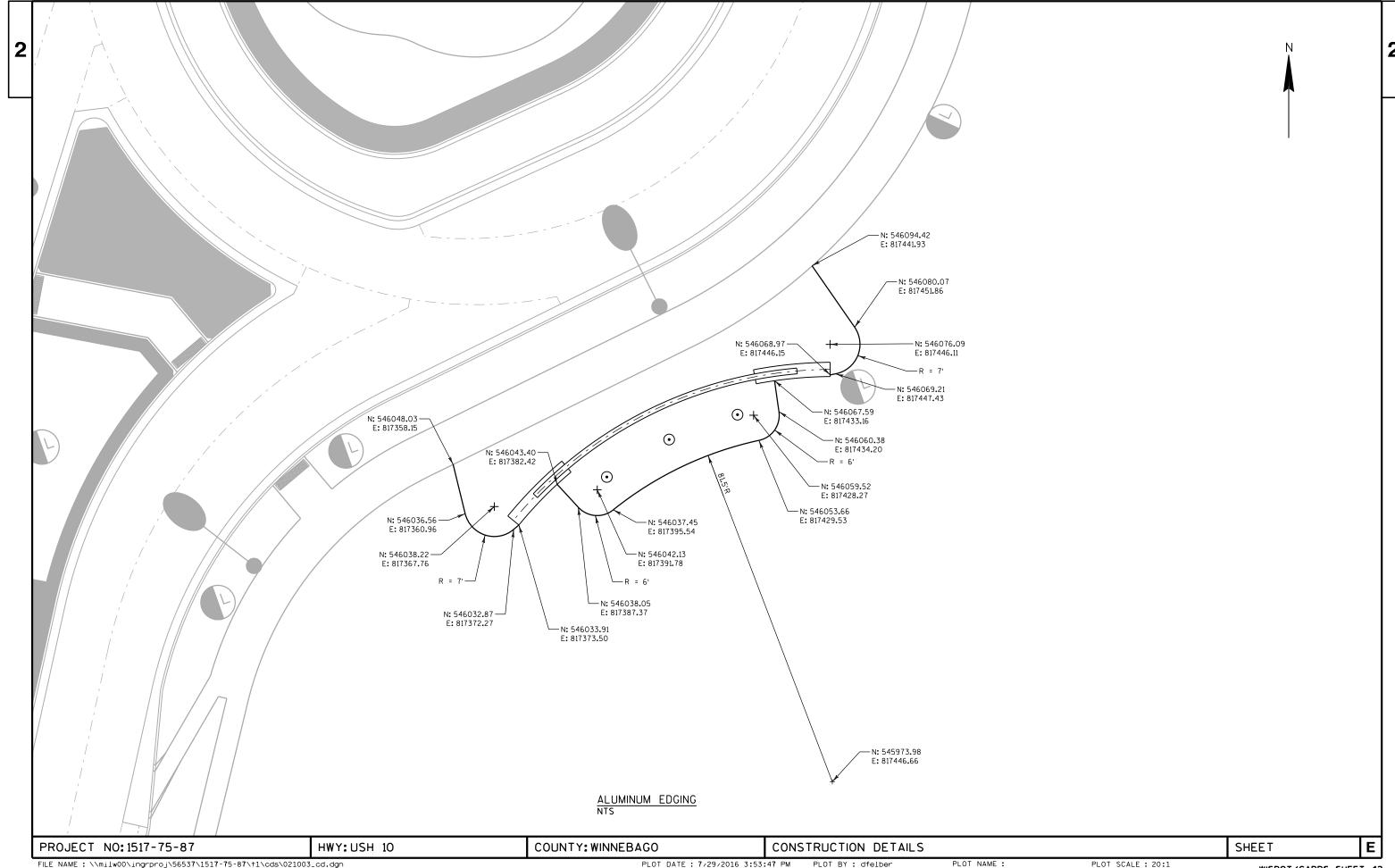
PLOT NAME : 020101\_gn2

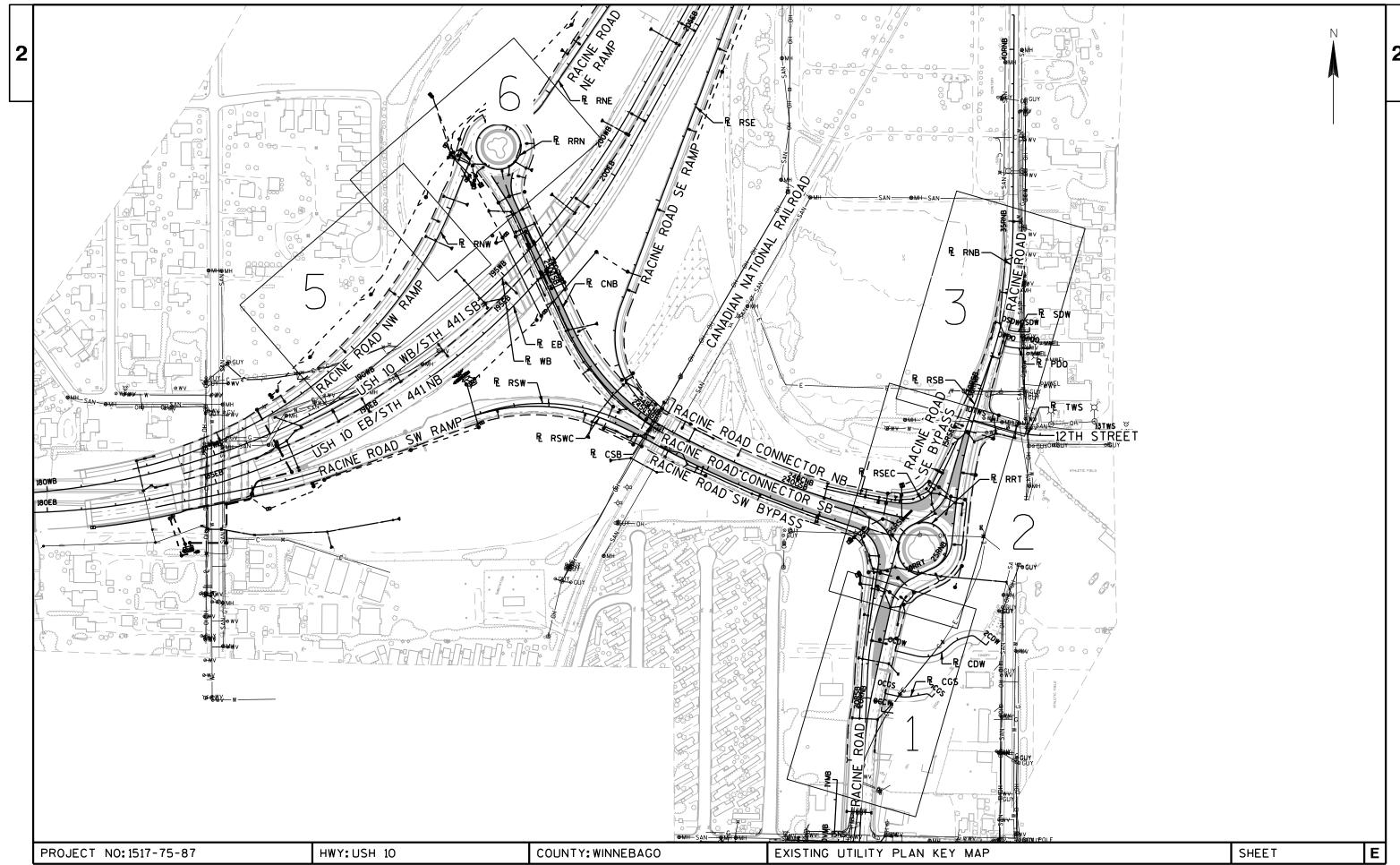
PLOT SCALE: 1:1

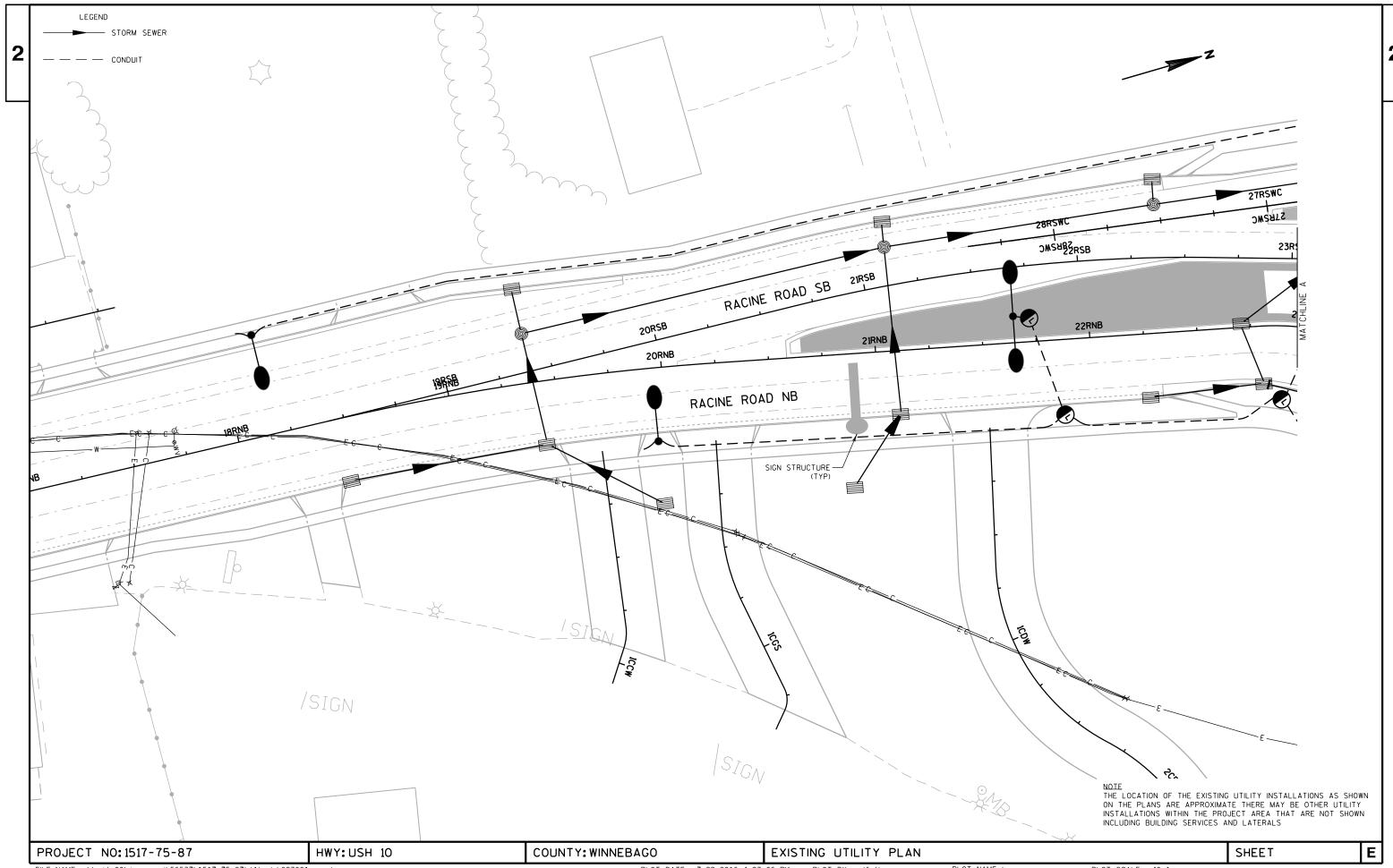


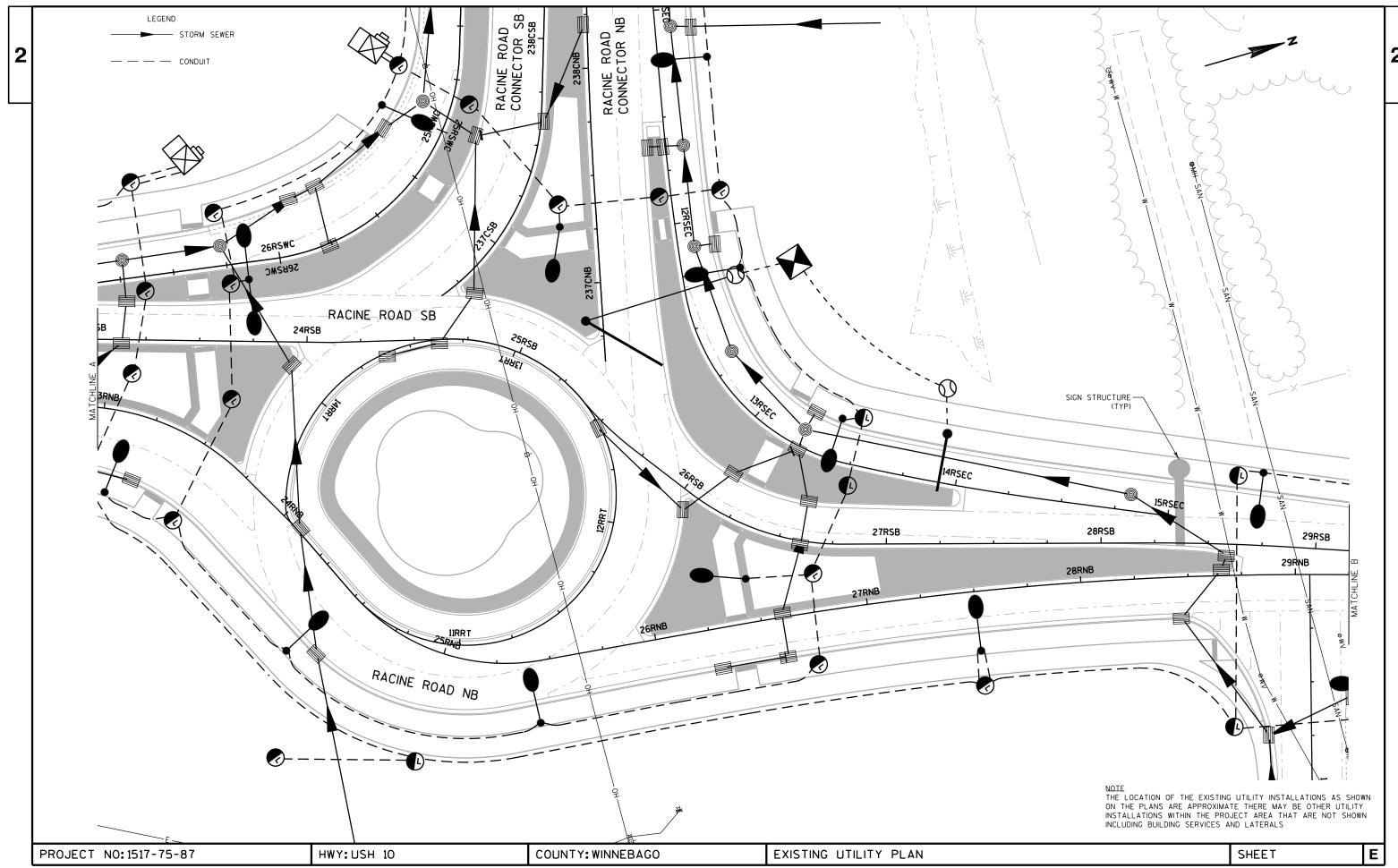


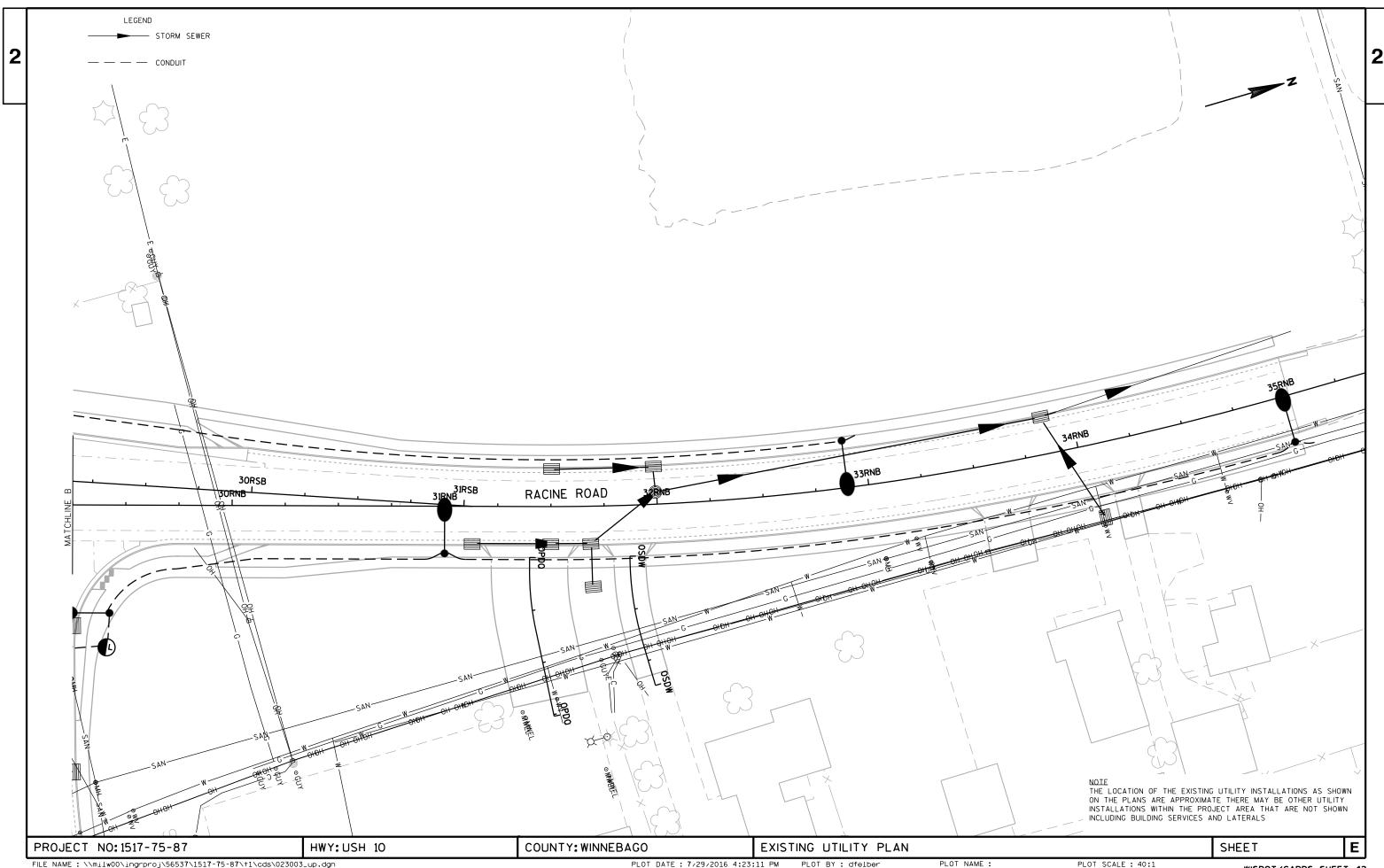


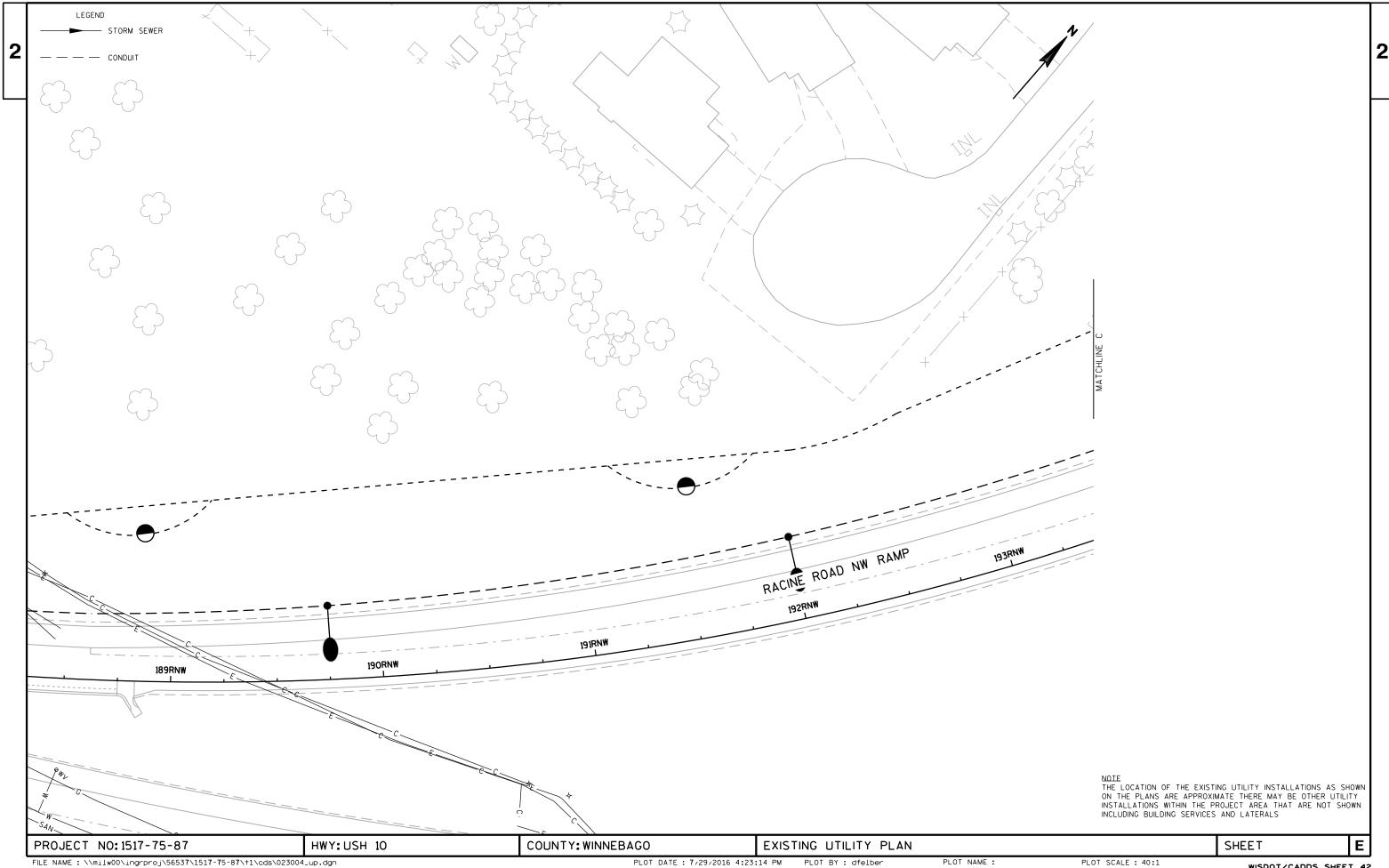


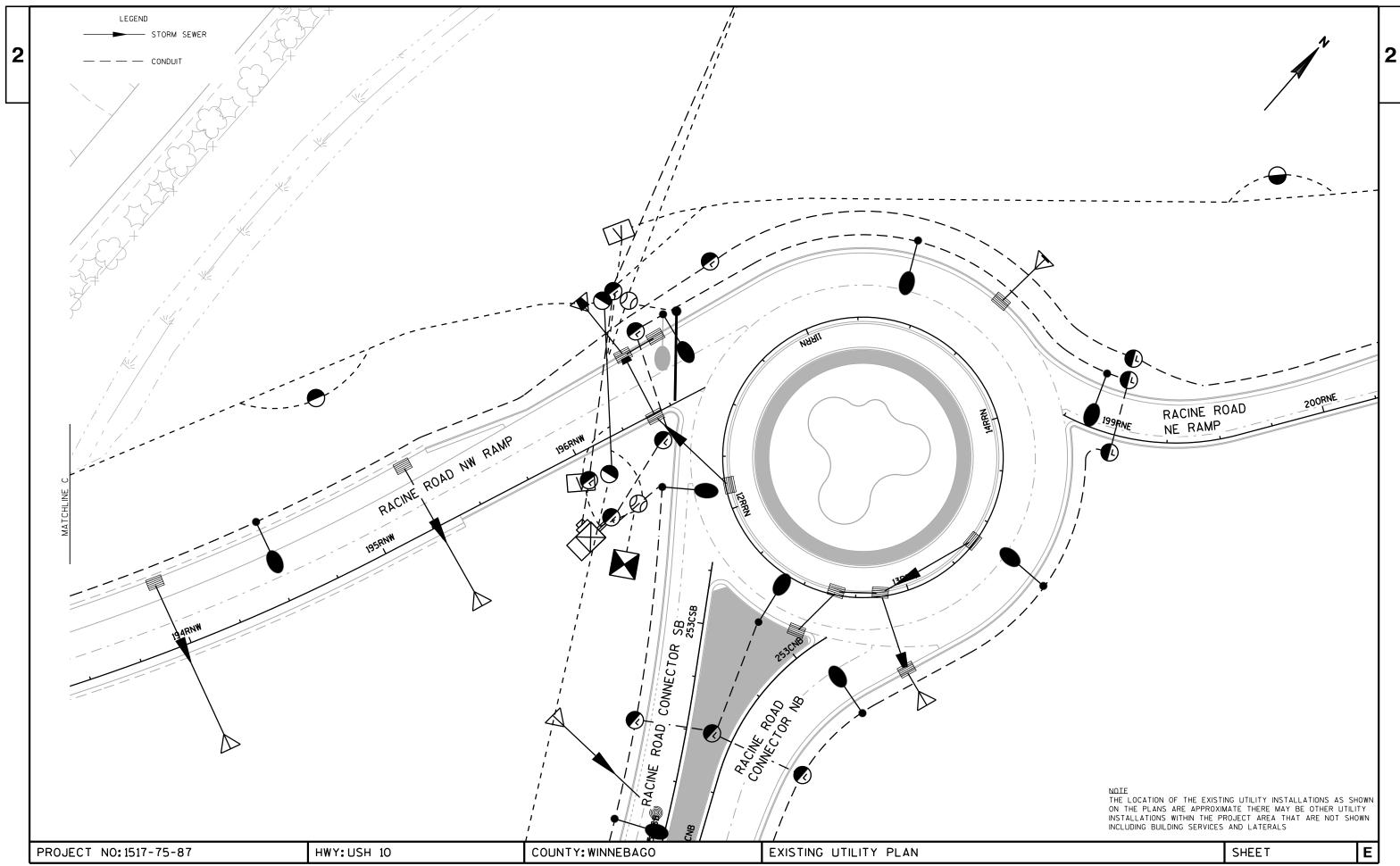


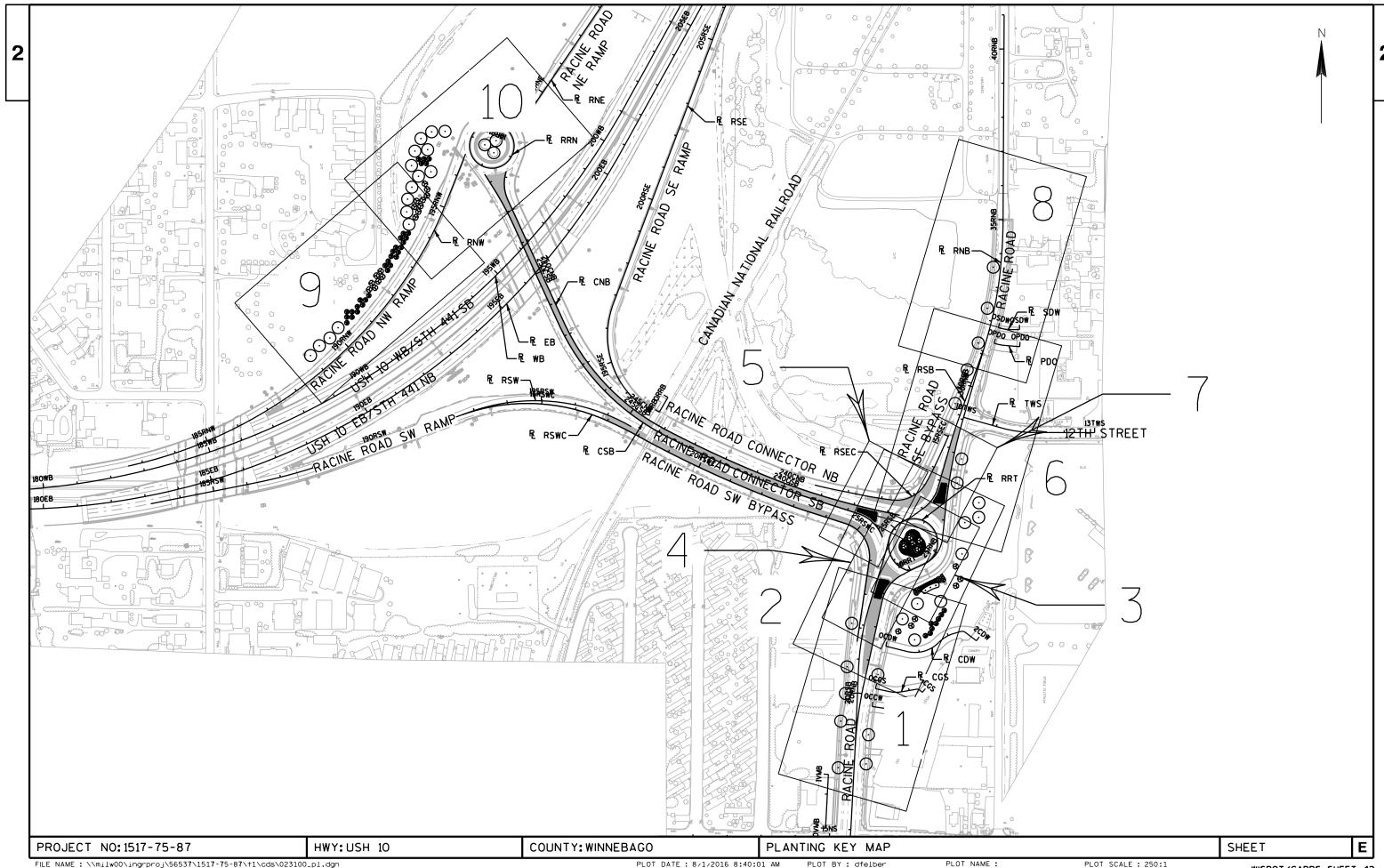


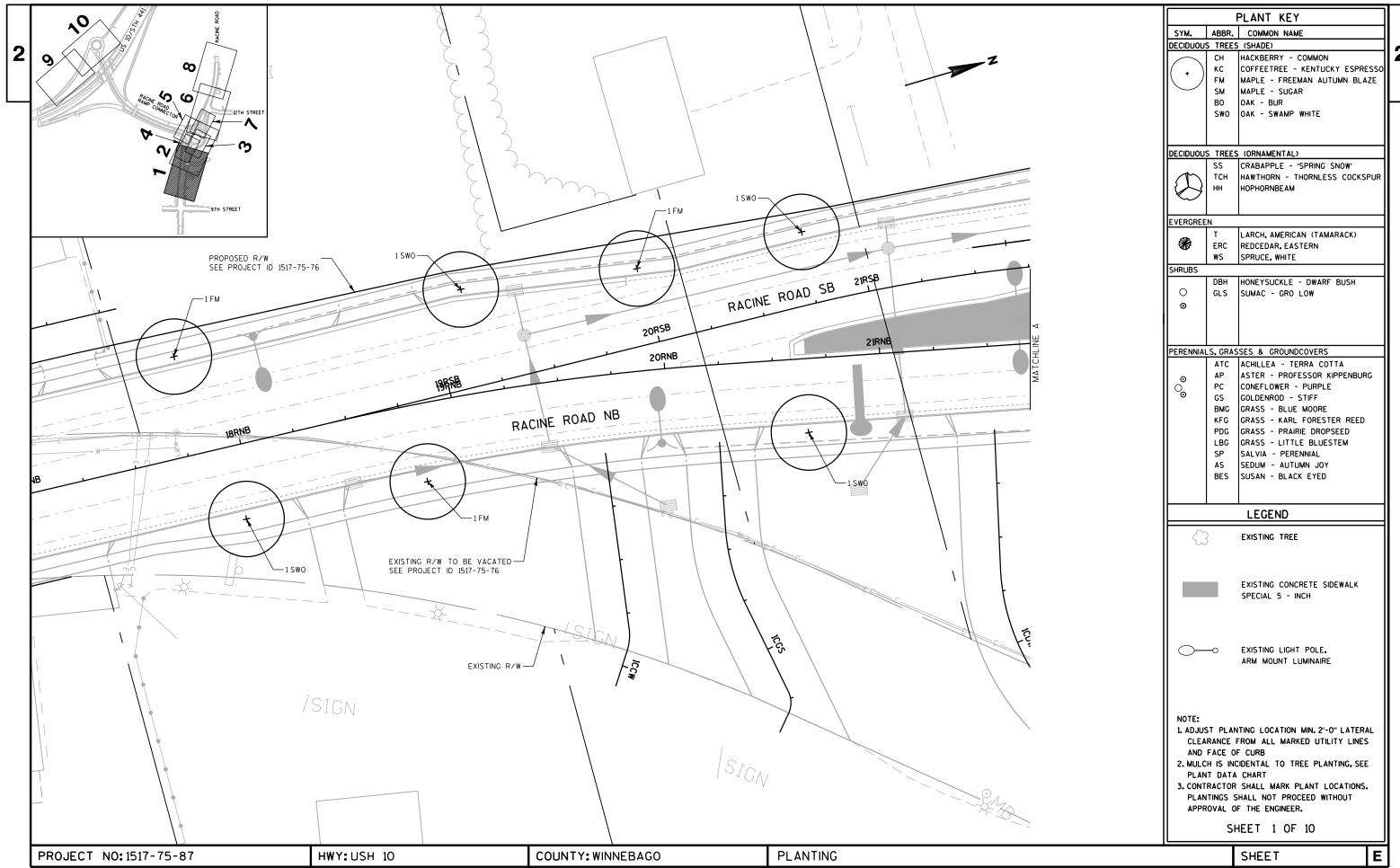


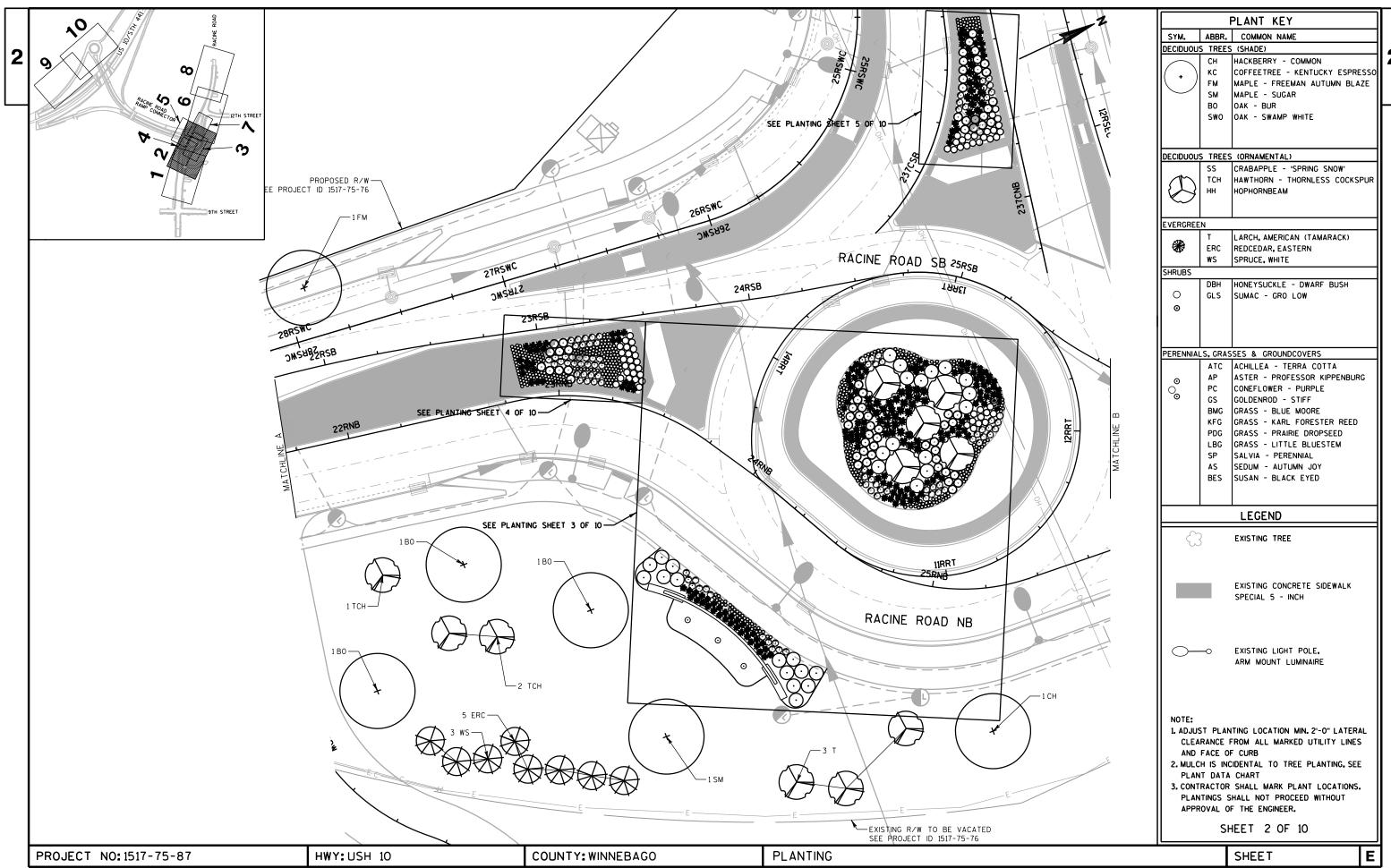


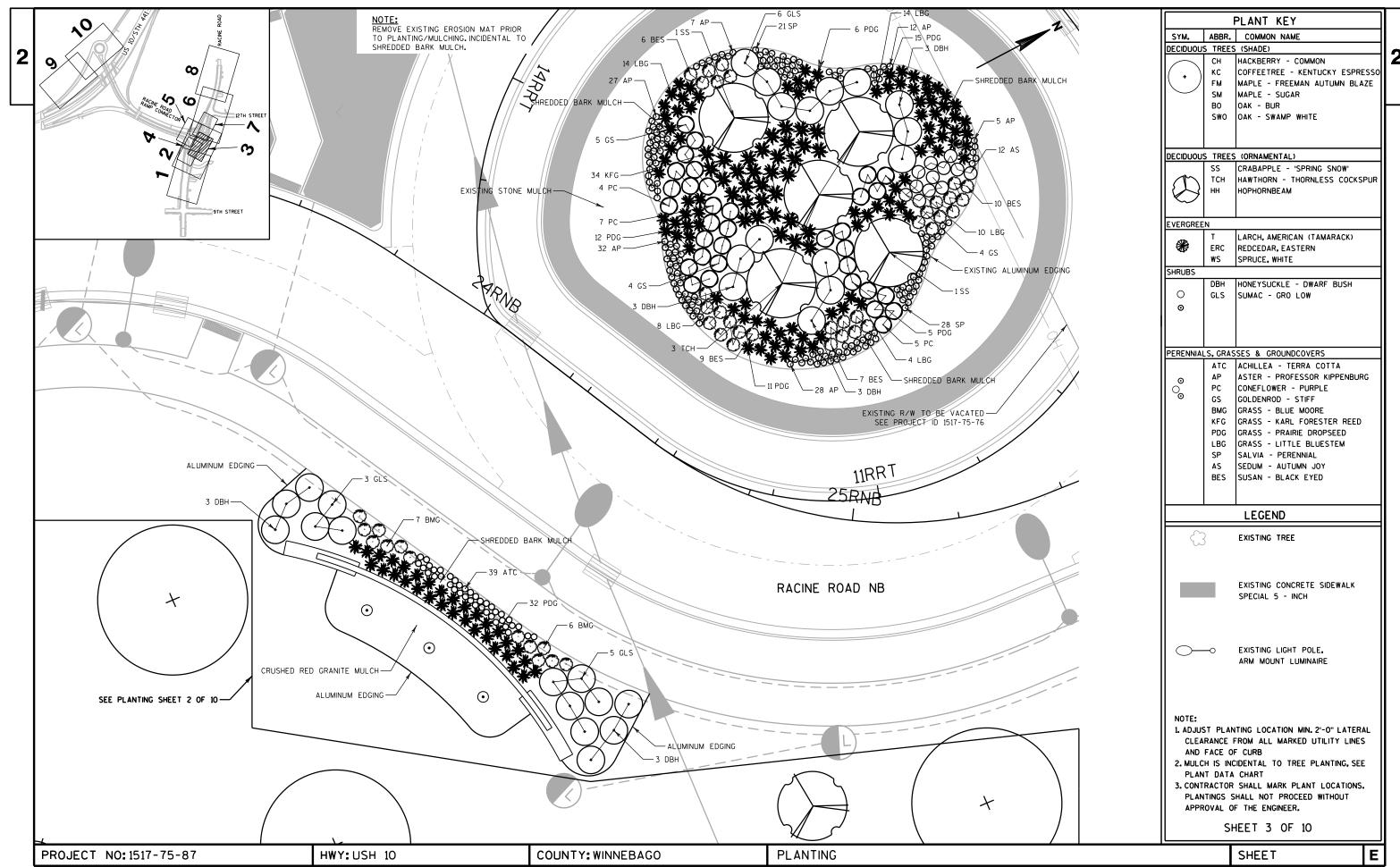


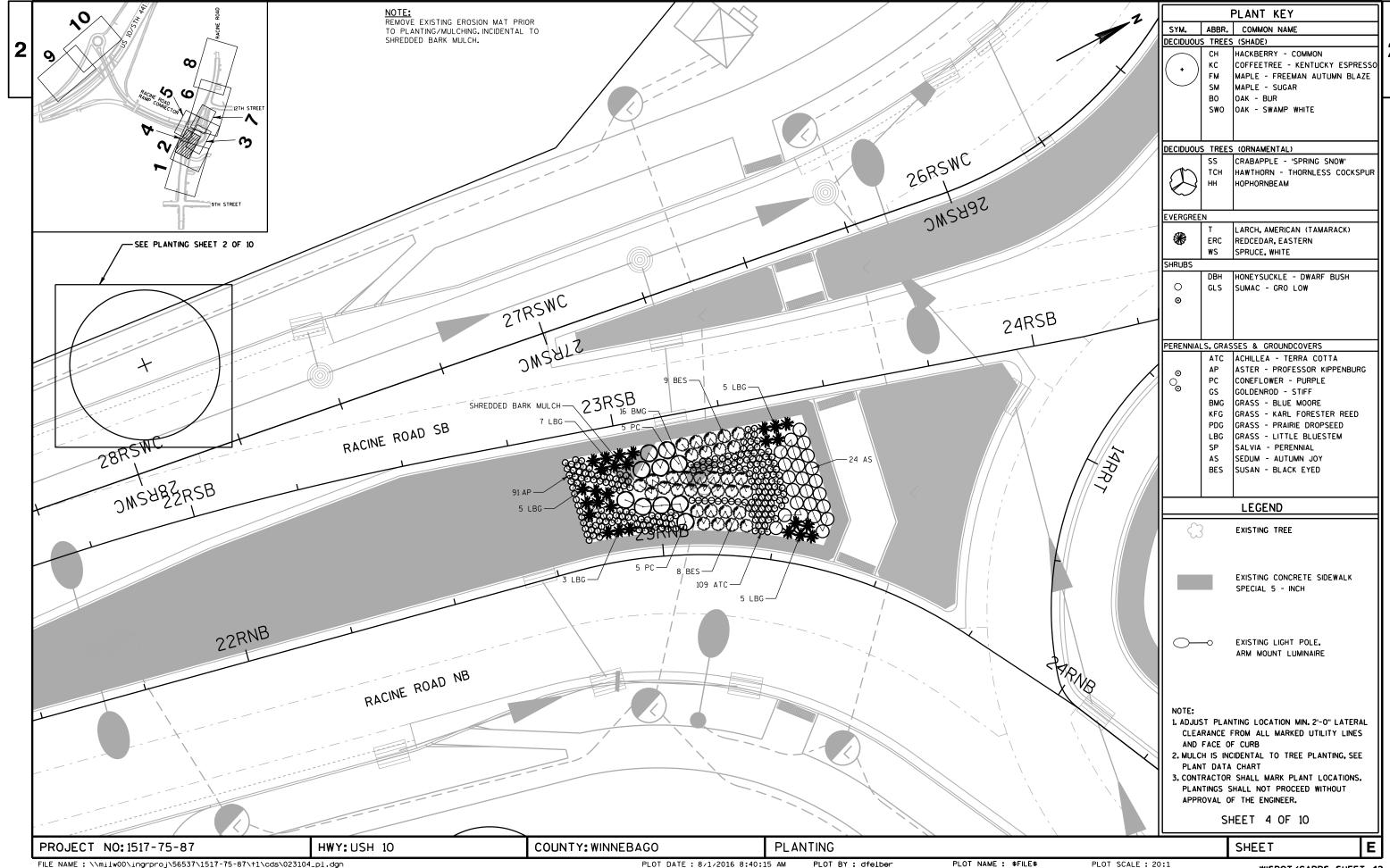


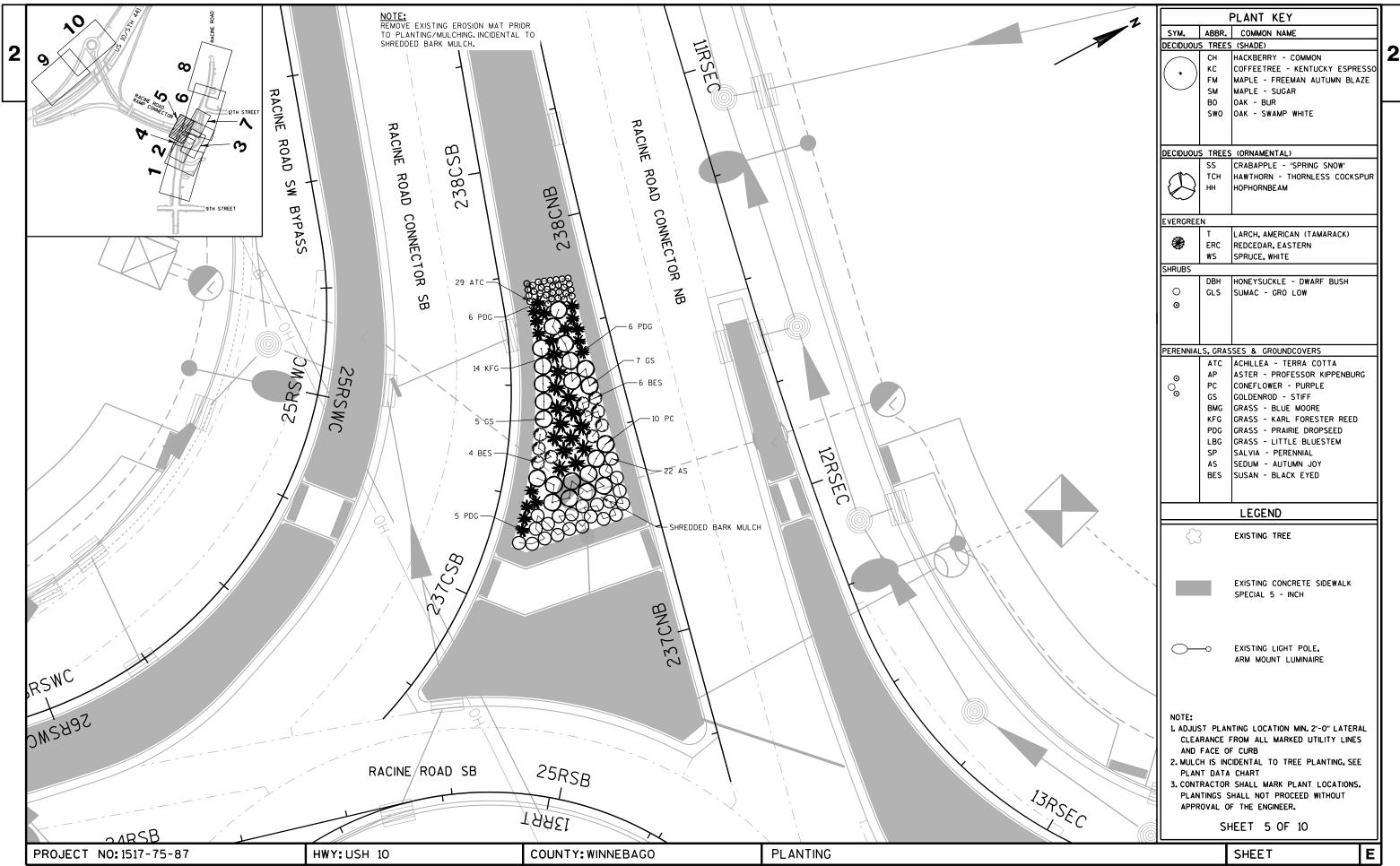


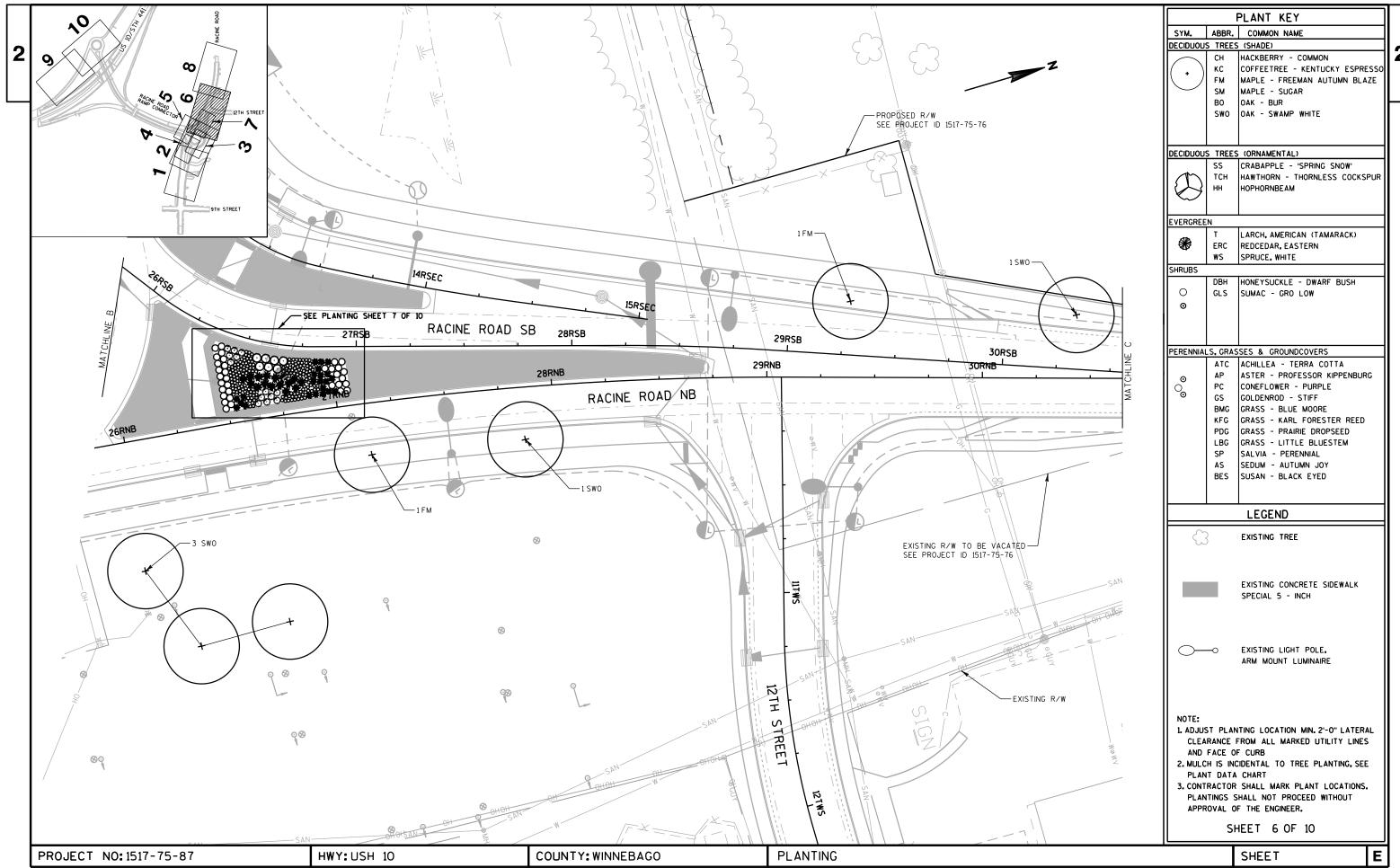


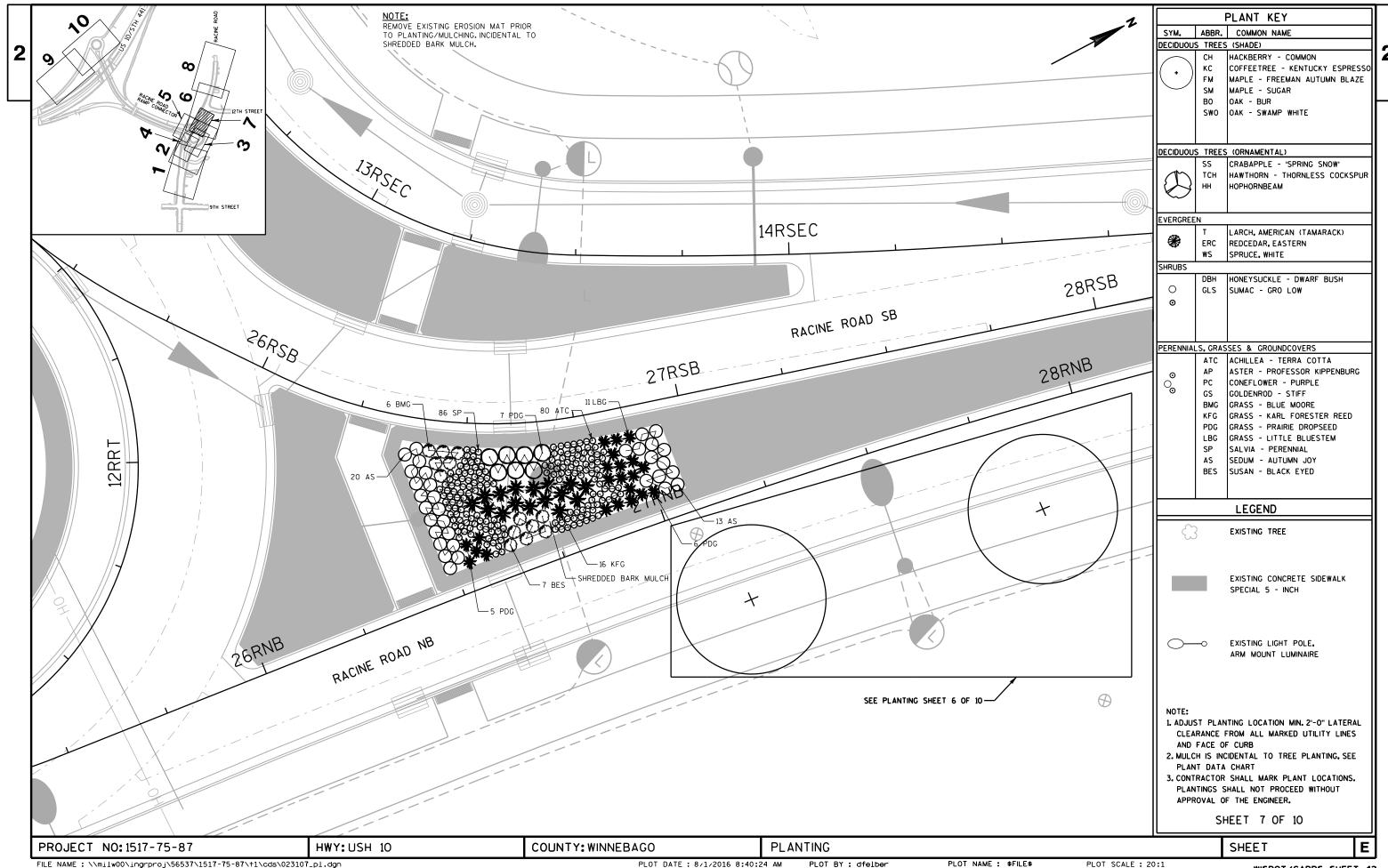


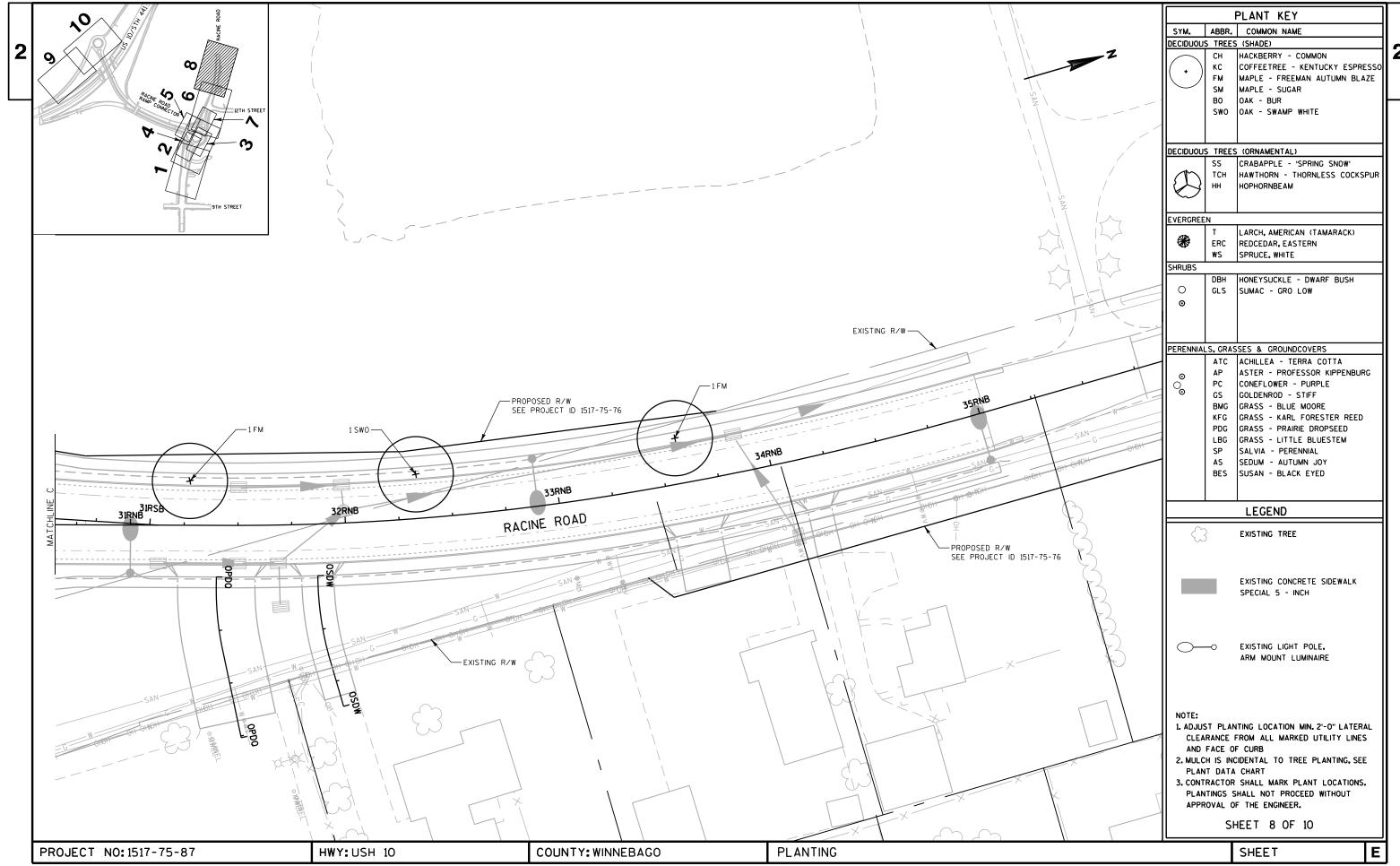


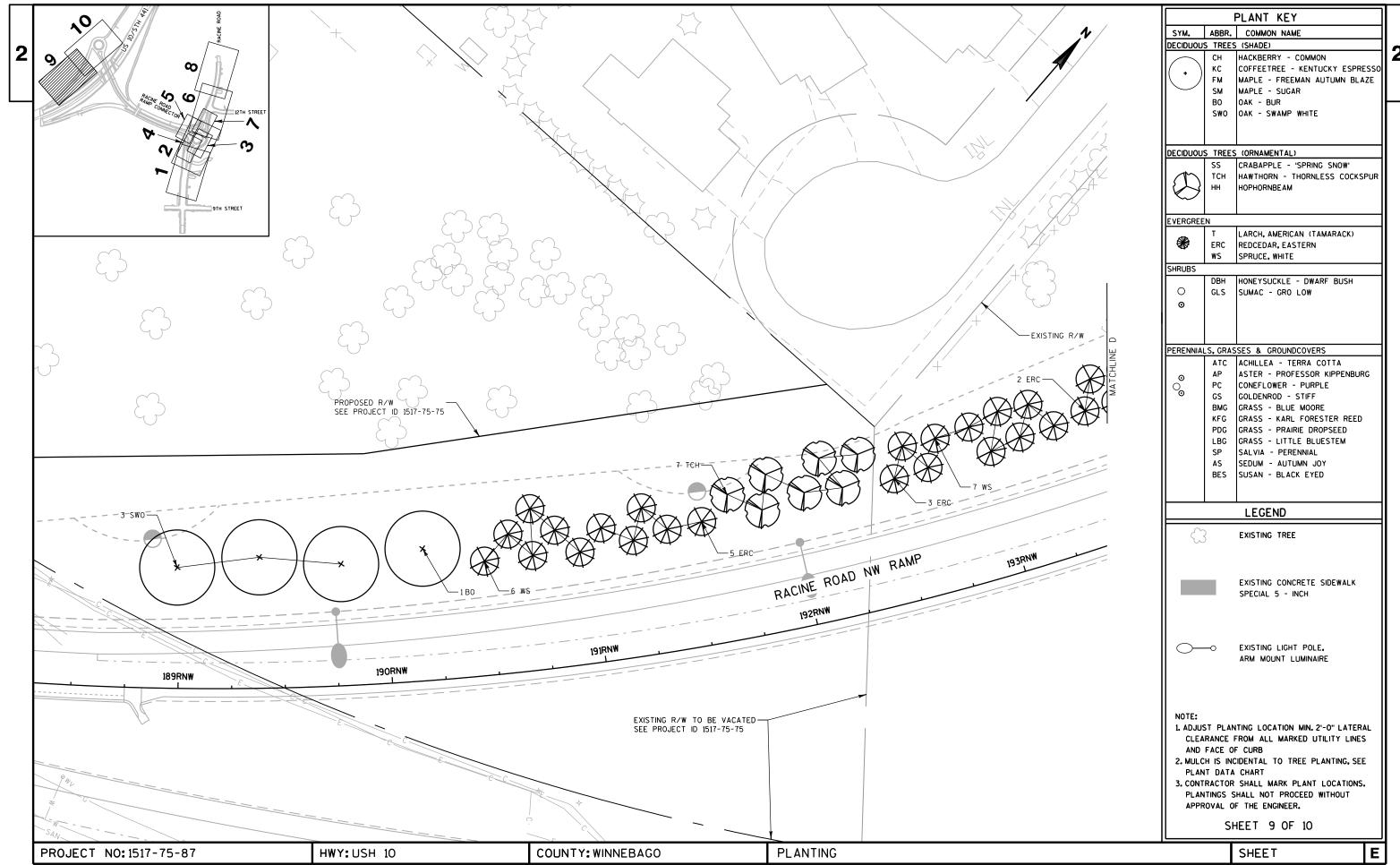


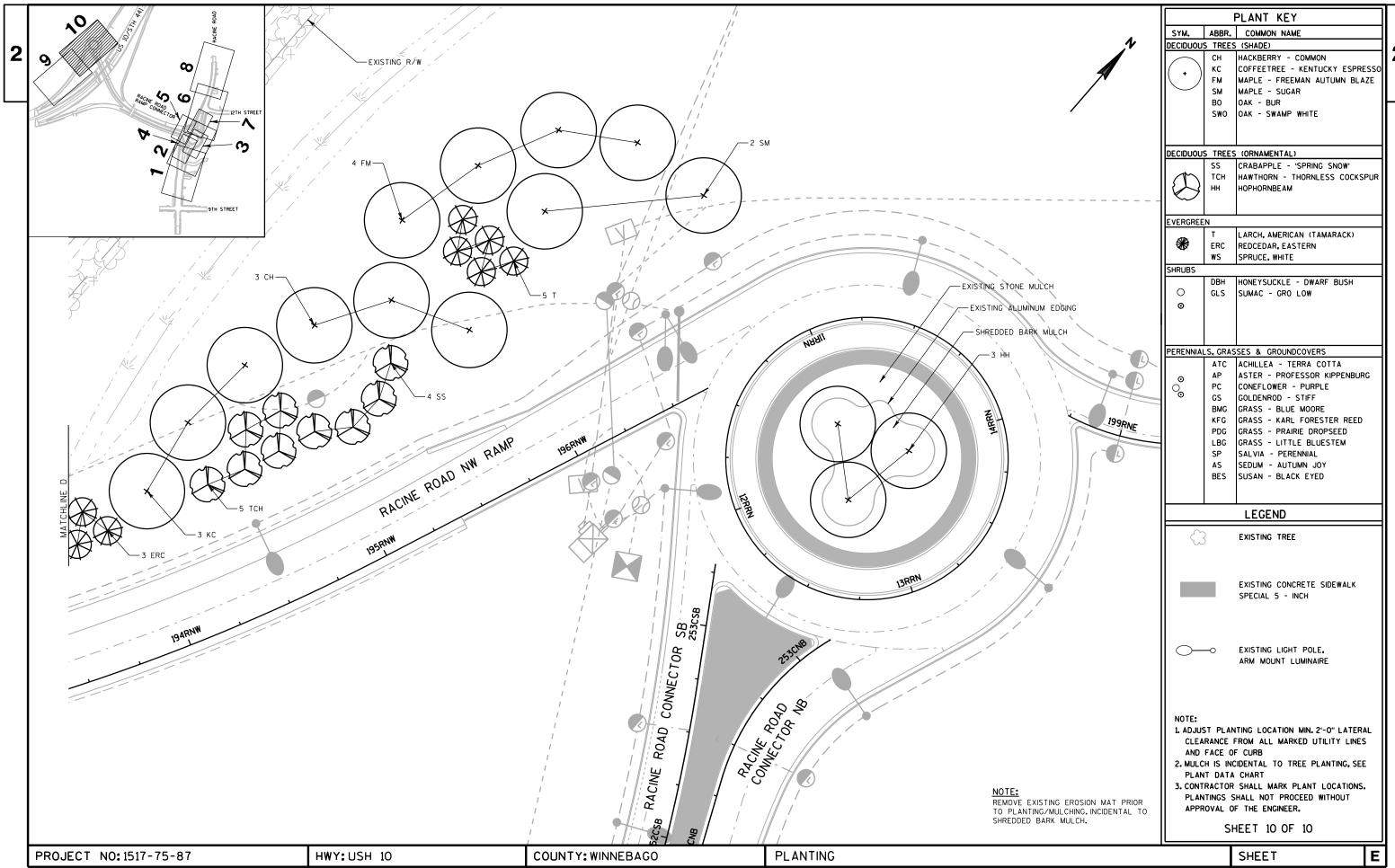


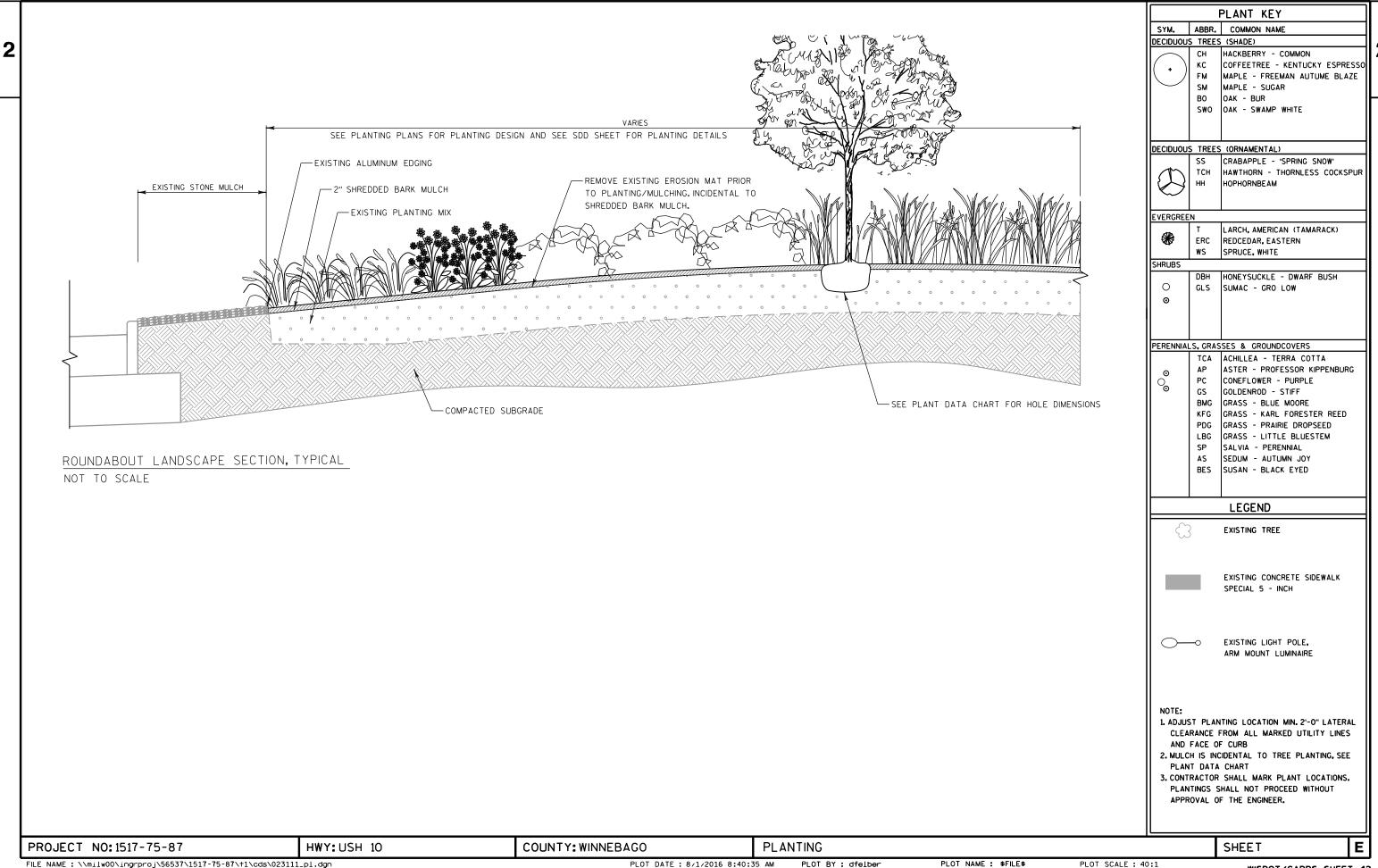












_
_

SYM.	COMMON NAME	SCIENTIFIC NAME	AVE. MATURE HEIGHT	SIZE WHEN PLANTED	ROOT ZONE MODE	MINIMU M BALL OR POT		MINIMU M HOLE SIZE	1	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROT'CT	MULCH
	DECIDIO (CHADE)					DIAM.	DEPTH	DIAM.	DEPTH			REQ'D	DIAM.
	DECIDUOUS TREES (SHADE)	Outto and the falls		24/20 041	DCD	20"	4711	F 2 11	4711	CLIV		110	
CH*	Hackberry - Common	Celtis occidentalis	50'	2 1/2" CAL	B&B	28"	17"	52"	17"	GUY	4	NO NO	64"
KC*	Coffeetree - Kentucky 'Espresso'	Gymnocladus diocia	50'	2 1/2" CAL	B&B	28"	17"	52"	17"	GUY	4	NO	64"
FM*	Maple - Freeman 'Autumn Blaze'	Acer x freemanii 'Autumn Blaze'	50'	2 1/2" CAL	B&B	28"	17"	52"	17"	GUY	4	NO	64"
SM*	Maple - Sugar	Acer saccharum	50'	2 1/2" CAL	B&B	28"	17"	52"	17"	GUY	4	NO	64"
во*	Oak - Burr	Quercus macrocarpa	40'	2 1/2" CAL	B&B	28"	17"	52"	17"	GUY	4	NO	64"
SWO*	Oak - Swamp White	Quercus bicolor	40'	2 1/2" CAL	B&B	28"	17"	52"	17"	GUY	4	NO	64"
SS* TCH* HH*	DECIDUOUS TREES (ORNAMENTAL)  Crabapple - 'Spring Snow'  Hawthorn - Thornless Cockspur  Hophornbeam	Malus 'Spring Snow' Crataegus crus-galli inermis Ostrya virginiana	15' 15' 15'	2" CAL 2" CAL 2" CAL	B&B B&B B&B	24" 24" 24"	14" 14" 14"	48" 48" 48"	14" 14" 14"	BRACE BRACE BRACE	3 3 3	YES YES YES	BEDLIMITS BEDLIMITS BEDLIMITS
T ERC	EVERGREENS Tamarack Redcedar - Eastern	Larix laricina Juniperus virginiana	30' 30'	7' HT 6'HT	B&B B&B	24" 22"	14" 13"	48" 46"	14" 13"	BRACE	3	NO NO	60" 60"
WS	Spruce - White	Picea glauca	40'	6'HT	B&B	22"	13"	46"	13"		<u>3</u>	NO	60"
	SHRUBS	Dervilla lonicera	4'	18" HT	Cont.	10"	6.5"	34"	6.5"	n/a	n/a	NO	BEDLIMITS
DBH	Honeysuckle - Dwarf Bush	Dervilla ionicera										+	
DBH GLS	Honeysuckle - Dwarf Bush Sumac - Gro Low	Rhus aromatic 'Gro Low'	4'	18" HT	Cont.	10"	6.5"	34"	6.5"	n/a	n/a	NO	BEDLIMITS
GLS AP	PERENNIALS, GRASSES & GROUNDCON Aster - Professor Kippenburg	Rhus aromatic 'Gro Low'  VERS  Aster nov-beligii 'Professor Kippenburg'	1'-5"	#1	Cont.	9"	6"	34"	6.5"	n/a	n/a n/a	NO	BEDLIMITS  BEDLIMITS
AP PC	PERENNIALS, GRASSES & GROUNDCOV Aster - Professor Kippenburg Coneflower - Purple	Rhus aromatic 'Gro Low'  VERS  Aster nov-beligii 'Professor Kippenburg' Echinacea purpurea	1'-5"	#1 #1	Cont.	9" 9"	6" 6"	34" 18" 18"	6.5" 6" 6"	n/a n/a n/a	n/a n/a n/a	NO NO	BEDLIMITS BEDLIMITS
AP PC ATC	PERENNIALS, GRASSES & GROUNDCOV Aster - Professor Kippenburg Coneflower - Purple Achillea Terra Cotta	Rhus aromatic 'Gro Low'  VERS  Aster nov-beligii 'Professor Kippenburg' Echinacea purpurea Achillea Terra Cotta	1'-5" 4' 16"	#1 #1 #1	Cont. Cont. Cont.	9" 9" 9"	6" 6"	34" 18" 18" 18"	6.5" 6" 6"	n/a n/a n/a n/a	n/a n/a n/a n/a	NO NO NO	BEDLIMITS BEDLIMITS BEDLIMITS
AP PC ATC GS	PERENNIALS, GRASSES & GROUNDCON Aster - Professor Kippenburg Coneflower - Purple Achillea Terra Cotta Goldenrod - Stiff	Rhus aromatic 'Gro Low'  VERS  Aster nov-beligii 'Professor Kippenburg' Echinacea purpurea Achillea Terra Cotta Solidago rigida	1'-5" 4' 16" 3'	#1 #1 #1 #1	Cont. Cont. Cont.	9" 9" 9" 9"	6" 6" 6"	18" 18" 18" 18"	6.5" 6" 6" 6"	n/a n/a n/a n/a	n/a n/a n/a n/a	NO NO NO	BEDLIMITS BEDLIMITS BEDLIMITS
AP PC ATC GS BMG	PERENNIALS, GRASSES & GROUNDCON Aster - Professor Kippenburg Coneflower - Purple Achillea Terra Cotta Goldenrod - Stiff Grass - Blue Moore	Rhus aromatic 'Gro Low'  VERS  Aster nov-beligii 'Professor Kippenburg' Echinacea purpurea Achillea Terra Cotta Solidago rigida Blue Moore Grass	1'-5" 4' 16" 3' 3'	#1 #1 #1 #1 #1	Cont. Cont. Cont. Cont.	9" 9" 9" 9"	6" 6" 6" 6"	18" 18" 18" 18" 18"	6.5" 6" 6" 6" 6"	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	NO NO NO NO	BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS
AP PC ATC GS BMG KFG	PERENNIALS, GRASSES & GROUNDCON Aster - Professor Kippenburg Coneflower - Purple Achillea Terra Cotta Goldenrod - Stiff Grass - Blue Moore Grass - Karl Forester Reed	Rhus aromatic 'Gro Low'  VERS  Aster nov-beligii 'Professor Kippenburg' Echinacea purpurea Achillea Terra Cotta Solidago rigida Blue Moore Grass Calamagrostis x acutiflora 'Karl Foerster'	1'-5" 4' 16" 3' 3' 4'	#1 #1 #1 #1 #1 #1	Cont. Cont. Cont. Cont. Cont. Cont. Cont.	9" 9" 9" 9" 9"	6" 6" 6" 6" 6"	18" 18" 18" 18" 18" 18"	6.5" 6" 6" 6" 6" 6"	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	NO NO NO NO NO	BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS
AP PC ATC GS BMG KFG PDG	PERENNIALS, GRASSES & GROUNDCON Aster - Professor Kippenburg Coneflower - Purple Achillea Terra Cotta Goldenrod - Stiff Grass - Blue Moore Grass - Karl Forester Reed Grass - Prairie Dropseed	Rhus aromatic 'Gro Low'  VERS  Aster nov-beligii 'Professor Kippenburg' Echinacea purpurea Achillea Terra Cotta Solidago rigida Blue Moore Grass Calamagrostis x acutiflora 'Karl Foerster' Sporobolus heterolepis	1'-5" 4' 16" 3' 3' 4' 2'	#1 #1 #1 #1 #1 #1 #1	Cont. Cont. Cont. Cont. Cont. Cont. Cont. Cont.	9" 9" 9" 9" 9"	6" 6" 6" 6" 6"	18" 18" 18" 18" 18" 18" 18"	6.5" 6" 6" 6" 6" 6" 6"	n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a	NO NO NO NO NO NO	BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS
AP PC ATC GS BMG KFG PDG LBG	PERENNIALS, GRASSES & GROUNDCON Aster - Professor Kippenburg Coneflower - Purple Achillea Terra Cotta Goldenrod - Stiff Grass - Blue Moore Grass - Karl Forester Reed Grass - Prairie Dropseed Grass - Little bluestem	Rhus aromatic 'Gro Low'  VERS  Aster nov-beligii 'Professor Kippenburg' Echinacea purpurea Achillea Terra Cotta Solidago rigida Blue Moore Grass Calamagrostis x acutiflora 'Karl Foerster' Sporobolus heterolepis Schizachryium scoparium 'Carousel'	1'-5" 4' 16" 3' 3' 4' 2' 1'-5"	#1 #1 #1 #1 #1 #1 #1	Cont.	9" 9" 9" 9" 9" 9"	6" 6" 6" 6" 6" 6"	18" 18" 18" 18" 18" 18" 18"	6.5"  6" 6" 6" 6" 6" 6" 6"	n/a	n/a	NO NO NO NO NO NO NO	BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS
AP PC ATC GS BMG KFG PDG LBG SP	PERENNIALS, GRASSES & GROUNDCON Aster - Professor Kippenburg Coneflower - Purple Achillea Terra Cotta Goldenrod - Stiff Grass - Blue Moore Grass - Karl Forester Reed Grass - Prairie Dropseed Grass - Little bluestem Salvia - Perennial	Rhus aromatic 'Gro Low'  VERS  Aster nov-beligii 'Professor Kippenburg' Echinacea purpurea Achillea Terra Cotta Solidago rigida Blue Moore Grass Calamagrostis x acutiflora 'Karl Foerster' Sporobolus heterolepis Schizachryium scoparium 'Carousel' Salvia 'Victoria'	1'-5" 4' 16" 3' 3' 4' 2' 1'-5"	#1 #1 #1 #1 #1 #1 #1 #1	Cont.	9" 9" 9" 9" 9" 9"	6" 6" 6" 6" 6" 6" 6"	18" 18" 18" 18" 18" 18" 18" 18"	6.5"  6" 6" 6" 6" 6" 6" 6"	n/a	n/a	NO NO NO NO NO NO NO	BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS BEDLIMITS
AP PC ATC GS BMG KFG PDG LBG	PERENNIALS, GRASSES & GROUNDCON Aster - Professor Kippenburg Coneflower - Purple Achillea Terra Cotta Goldenrod - Stiff Grass - Blue Moore Grass - Karl Forester Reed Grass - Prairie Dropseed Grass - Little bluestem	Rhus aromatic 'Gro Low'  VERS  Aster nov-beligii 'Professor Kippenburg' Echinacea purpurea Achillea Terra Cotta Solidago rigida Blue Moore Grass Calamagrostis x acutiflora 'Karl Foerster' Sporobolus heterolepis Schizachryium scoparium 'Carousel'	1'-5" 4' 16" 3' 3' 4' 2' 1'-5"	#1 #1 #1 #1 #1 #1 #1	Cont.	9" 9" 9" 9" 9" 9"	6" 6" 6" 6" 6" 6"	18" 18" 18" 18" 18" 18" 18"	6.5"  6" 6" 6" 6" 6" 6" 6"	n/a	n/a	NO NO NO NO NO NO NO	BEDLIMITS BEDLIMITS

PROJECT NO: 1517-75-87	HWY: USH 10	COUNTY: WINNEBAGO	PLANT DATA CHART	SHEET NO:

PROJECT NO: 1517-75-87 HWY: USH 10 COUNTY: WINNEBAGO PLANT DATA CHART

FILE NAME: 1:\56537\1517-75-87\tr\\cds\023106\_pl.pptx PLOT NAME: 0:23106\_pl

PLOT BY: dfelber PLOT NAME: 0:23106\_pl

PLOT SCALE: 1.000000:1.00000 WISDOT/CADDS SHEET 42

### LIGHTING PLAN LEGEND

-EXISTING LIGHT POLE LOCATION

₩ FLAG POLE LIGHTS

0 FLAG POLE (BY OTHERS)

EXISTING CONTROL CABINET FOR LOCAL LIGHTING CONTROL

CONDUIT RIGID NONMETALLIC

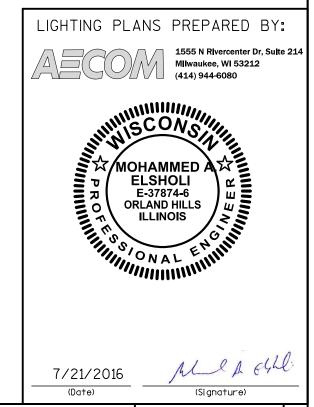
EXISTING 24"X42" NON-CONDUCTIVE PULL BOX

-# OF CONDUITS CONTROLLER -SIZE OF CONDUIT WIRING DIAGRAM TABLE DESIGNATION -SIZE OF GND CONDUCTOR LIGHTING CIRCUIT - # OF GND CONDUCTORS # OF CONDUCTORS SIZE OF CONDUCTORS

Call 811 3 Work Days Before You Dig or Toll Free (800) 242-8511 Hearing Impaired TDD (800) 542-2289 www.DiggersHotline.com

### LIGHTING GENERAL NOTES

- VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
- ALL NEW CONDUITS, CABLE DUCTS, DIRECT BURIAL CABLES, AND ACCESSORIES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
- PERFORM THE ELECTRICAL WORK IN ACCORDANCE WITH WISDOT LATEST STANDARDS, THE SPECIAL PROVISIONS AND APPLICABLE SECTIONS OF THE WISDOT STANDARD SPECIFICATIONS (LATEST EDITION).
- INSTALL CONDUITS AT A MINIMUM 24" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. INCREASE DEPTH OF DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST. COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
- ALL CONDUIT USED FOR BORED CABLE RUNS UNDER PAVEMENTS SHALL BE POLYVINYL CHLORIDE (PVC), SCHEDULE 40 IN CONFORMANCE WITH SECTION 652.2.3 OF THE WISDOT SPECIFICATIONS.
- CAP CONDUIT ON BOTH ENDS UNTIL CABLING IS PLACED. FUNISH AND INSTALL A MANUFACTURER APPROVED CAP FOR ALL CONDUITS, DUCT TAPE AND OTHER TAPE IS NOT ACCEPTABLE MEANS OF CONDUIT CAP. EXTEND CONDUIT ONE FOOT BEYOND THE BACK OF CURB EDGE OR TWO FEET BEYOND SHOULDER IF NO CURB.
- FURNISH AND INSTALL CABLE PULL STRINGS OR WIRES IN ALL CONDUITS. PULL WIRES MUST BE ACCESSIBLE AND ANCHORED AT EACH CONDUIT END FOR EASY FUTURE ACCESS.
- LIGHTING SYMBOLS ARE ENLARGED FOR CLARITY, USE CENTER OF SYMBOL TO LOCATE EQUIPMENT IN THE FIELD.
- PITCH CONDUIT TOWARDS PULL BOXES FOR DRAINAGE. IF THE CONTRACTOR IS UNABLE TO PROVIDE A PITCH TO PULL BOXES FOR PVC CONDUIT, DRILL ONE 1/4-INCH-DIAMETER DRAIN HOLE IN THE CONDUIT AT EACH LOW POINT AND PLACE SUMPS UNDER THE DRAIN HOLES.



PROJECT NO: 1517-75-87

HWY: USH 10

COUNTY: WINNEBAGO

LIGHTING PLAN - TITLE SHEET

SHEET

Ε

EXISTING RACINE ROAD ROADWAY LIGHTING CABINET (CB-700) - CITY OF MENASHA

120/24 nductors:	s: _2AWG A -2P (IN METER PEDESTAL  or	Wire			MEN	ASHA		OARD								
Poles 1 or 2	es Description		.,,		_	Rating: 100A RACINE ROAD LIGHTING CABINET PANELBOARD INSTALLED Voltage: 120/240 Volts, _1_ Phase _3_ Wire MENASHA CABINET CONTRACT: Feeder Conductors: _2_ AWG LIGHTING LOAD Main Brkr: 100 A -2P (IN METER PEDESTAL)										
2			V	A	Α	В	V	A	Description	Brkr Poles 1 or 2	Brkr Amps	Ckt				
	CIRCUIT A		91	91	X	X			CIRCUIT B	2	30	2				
2	CIRCUIT C		182	182	X	X	91	91	CIRCUIT D	2	30	6 8				
2	CIRCUIT E		273	273	X	Х	273	273	CIRCUIT F	2	30	10				
2	SPARE				X	X			SPARE	2	30	12 14 16				
2	SPARE				X	Х			SPARE	2	30	18 20				
1	SPARE				Х		1125		FLAG POLE LIGHTS	1	20	22				
1	SPARE					Х		1125	FLAG POLE LIGHTS	1	20	24				
•	·	TOTALS	546	546			1489	1489	TOTALS	•	•					
2035 2035 4070	35									4.07 KVA DE	EMAND					
	2 1 1 2 203 203	2 SPARE 1 SPARE 1 SPARE 2035	2 SPARE  1 SPARE  1 SPARE  TOTALS  2035 2035	2 SPARE  1 SPARE  1 SPARE  TOTALS 546	2 SPARE 2 SPARE 1 SPARE 1 SPARE TOTALS 546 546  2035 2035	2 SPARE X 2 SPARE X 1 SPARE X 1 SPARE X 1 SPARE X 2035 2035	2 SPARE X X 2 SPARE X X 1 SPARE X X 1 SPARE X X 1 SPARE X X 2035 2035	2 SPARE X X X X X X X X X X X X X X X X X X X	2 SPARE	2 SPARE	2         SPARE         X         X         SPARE         2           2         SPARE         X         SPARE         2           1         SPARE         X         1125         FLAG POLE LIGHTS         1           1         SPARE         X         1125         FLAG POLE LIGHTS         1           TOTALS         546         546         1489         1489         TOTALS	2     SPARE       2     SPARE       2     SPARE       30       30       407       4.07 </td				

### NOTES:

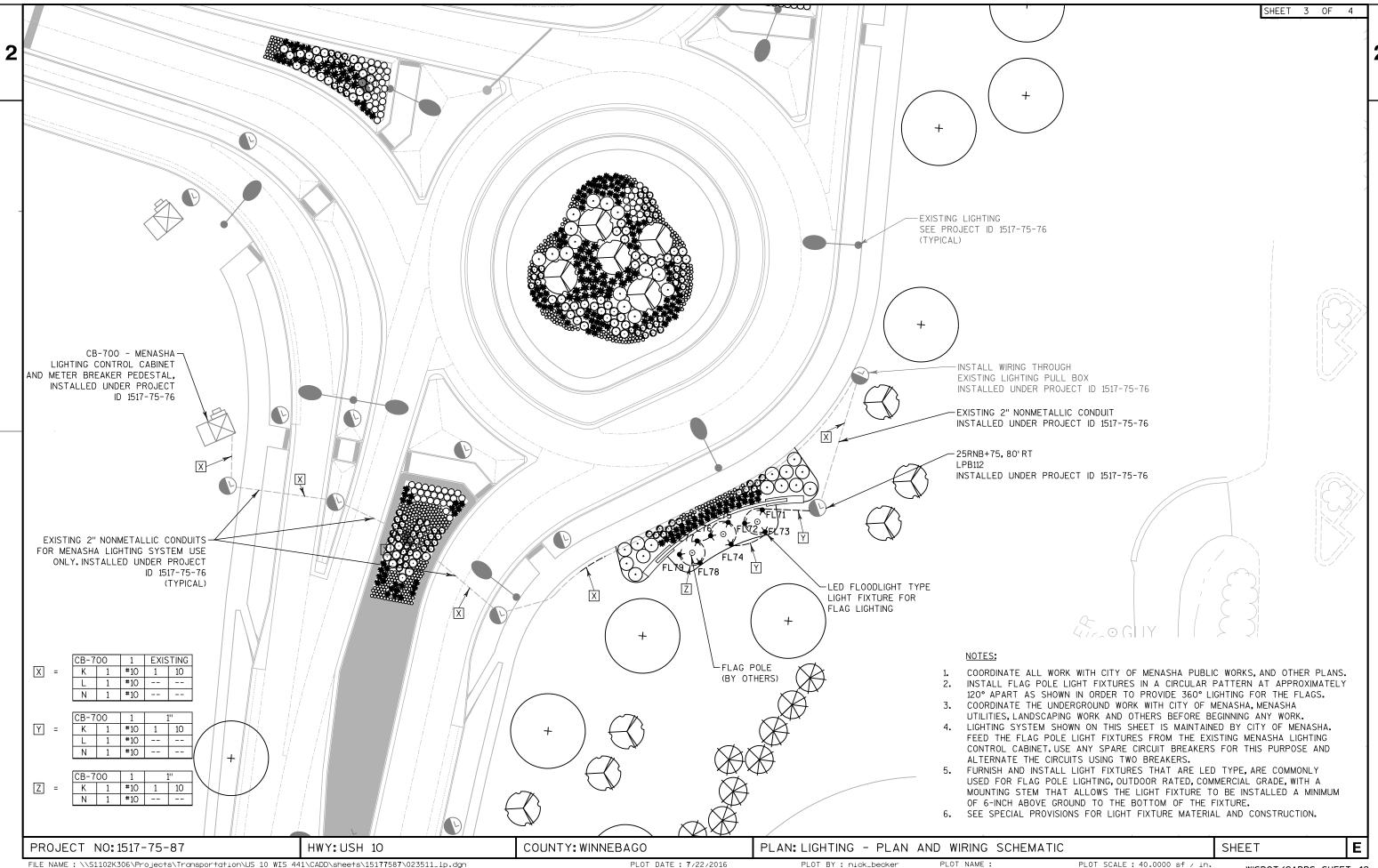
- LOADS SHOWN ARE FOR INFORMATION ONLY AND WILL VARY BY FIXTURE AND MANUFACTURER.
- PANELBOARD IS EXISTING INSIDE LIGHTING CABINET INSTALLED UNDER A PREVIOUS CONTRACT.
- DISTRIBUTE LOAD OF NEW FLAGPOLE LIGHT FIXTURES EVEN,Y BETWEEN PHASES.
- 4. WIRE NEW LIGHT FIXTURES TO SPARE BREAKERS; DON'T WIRE TO CIRCUITS WITH EXISTING ROADWAY LIGHTING LOAD.
- USE 1-POLE CIRCUIT BREAKERS FOR 120V LIGHT FIXTURES, AND USE 2-POLE CIRCUIT BREAKERS FOR 240V LIGHT FIXTURES. DESIGN AND WIRING SHOWN ON PLANS IS BASED ON 120V LIGHT FIXTURE VOLTAGE.
- 6. USE A MINIMUM OF 2 CIRCUIT BREAKERS TO FEED NEW FLAGPOLE LIGHTS.

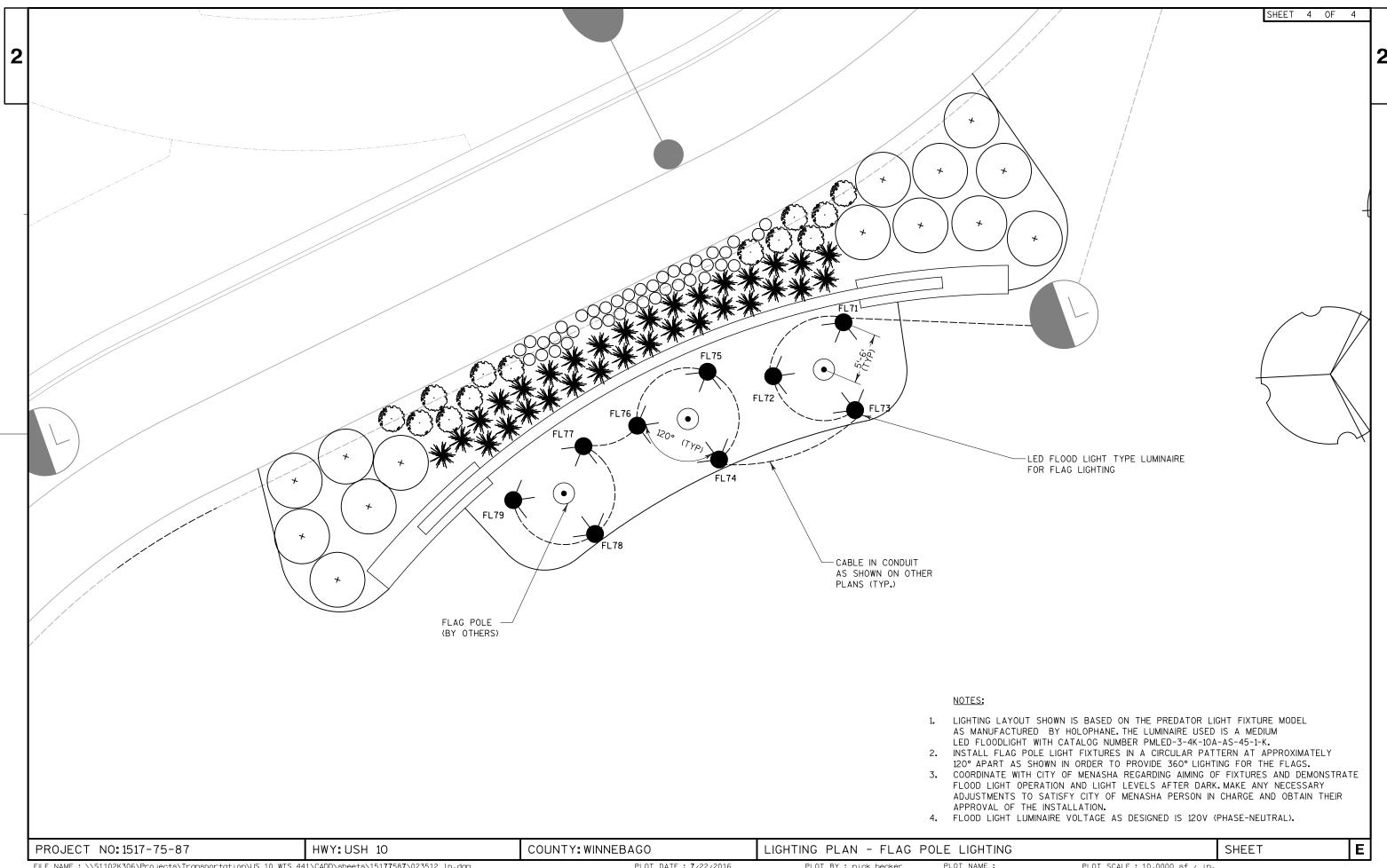
SHEET

PLOT DATE : 7/22/2016

PLOT NAME :

Ε





DATE 26	AUG16	E S <sup>-</sup>	ГІМАТЕ	OFQUAN		
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	1517-75-87 QUANTI TY	
0010	619. 1000	Mobilization	EACH	1.000	1. 000	
0020 0030	625. 0100 627. 0200	Topsoi I Mul chi ng	SY SY	1, 200. 000 1, 200. 000	1, 200. 000 1, 200. 000	
0040	628. 1104	Erosi on Balles	EACH	10. 000	10. 000	
0050	628. 1504	Silt Fence	LF	500.000	500.000	
0060	628. 1520	Silt Fence Maintenance	LF	500.000	500.000	
0070 0080	628. 1905 628. 1910	Mobilizations Erosion Control Mobilizations Emergency Erosion Control	EACH EACH	2. 000 2. 000	2. 000 2. 000	
0090	628. 2004	Erosi on Mat Class   Type B	SY	100. 000	100. 000	
0100	628. 7010	Inlet Protection Type B	EACH	10.000	10. 000	
0110	628. 7015	Inlet Protection Type C	EACH	10. 000	10. 000	
0120	629. 0210	Fertilizer Type B	CWT	1. 000	1.000	
0130	630. 0120	Seeding Mixture No. 20	LB	32.000	32. 000	
0140	632. 0101	Trees (species) (size) (root) 001. Hackberry - Common, B&B, 2 1/2-Inch CAL	EACH	4. 000	4. 000	
0150	632. 0101	Trees (species) (size) (root) 003.	EACH	3.000	3.000	
		Coffeetree - Kentucky 'Espresso', B&B,				
		2 1/2 - Inch CAL				
0160	632. 0101	Trees (species) (size) (root) 005.	EACH	12. 000	12. 000	
		Maple - Freeman 'Autumn Blaze', B&B, 2 1/2 - Inch CAL				
0170	632. 0101	Trees (species) (size) (root) 007.	EACH	3.000	3. 000	
0180	632. 0101	Maple - Sugar, B&B, 2 1/2 - Inch CAL Trees (species) (size) (root) 009. 0ak	EACH	4. 000	4. 000	
		- Burr, B&B, 2 1/2 - Ínch CAĹ				
0190	632. 0101	Trees (species) (size) (root) 011. 0ak - Swamp White, B&B, 2 1/2-Inch CAL	EACH	13. 000	13. 000	
0200	632. 0101	Trees (species) (size) (root) 013.	EACH	6. 000	6. 000	
		Crabapple - 'Spring Snow', B&B, 2 -				
		Inch CAL				
0210	632. 0101	Trees (species) (size) (root) 015.	EACH	18. 000	18. 000	
		Hawthorn - Thornless Cockspur, B&B, 2 -				
0220	632. 0101	Inch CAL Trees (species) (size) (root) 017.	EACH	3. 000	3. 000	
OZZO	002. 0101	Hophornbeam, B&B, 2 - Inch CAL	27.011	0.000	0.000	
0230	632. 0101	Trees (species) (size) (root) 021.	EACH	8. 000	8. 000	
0240	632. 0101	Tamarack, B&B, 7 Foot Ht Trees (species) (size) (root) 023.	EACH	18. 000	18. 000	
		Redcedar - Eastern, B&B, 6 Foot Ht				
0250	632. 0101	Trees (species) (size) (root) 025.	EACH	16. 000	16. 000	
		Spruce - White, B&B, 6 Foot Ht				
0260	632. 0201	Shrubs (species) (size) (root) 027.	EACH	15. 000	15. 000	
		Honeysuckle - Dwarf Bush, Cont., 18				
0270	632. 0201	Inch Ht Shrubs (species) (size) (root) 029.	EACH	14. 000	14. 000	
		Sumac - Gro Low, Cont 18 Inch Ht				
0280	632. 9101	Landscape Planting Surveillance and	EACH	24. 000	24. 000	
0290	643. 0100	Care Cycles Traffic Control (project) (1517-75-87)	EACH	1. 000	1. 000	
0300	652. 0210	Conduit Rigid Nonmetallic Schedule 40	LF	145. 000	145. 000	
		1-I nch				
0310	655. 0615	Electrical Wire Lighting 10 AWG	LF	786. 000	786. 000	
0320	655.0620	Electrical Wire Lighting 8 AWG	LF	2, 338. 000	2, 338. 000	
0330	SPV. 0060	Special 001. Perennial (Aster - Professor Kippenburg, Cont. #1)	EACH	111. 000	111. 000	
0340	SPV. 0060	Special 002. Perennial (Coneflower -	EACH	36. 000	36. 000	
		Purple, Cont. #1)				

DATE 26	AUG16	E S T	ГІМАТ	E OF QUANT	I T I E S 1517-75-87
NUMBER 0350	I TEM SPV. 0060	ITEM DESCRIPTION Special 003. Perennial (Achillea - Terra Cotta, Cont. #1)	UNI T EACH	TOTAL 257. 000	QUANTI TY 257. 000
0360	SPV. 0060	Special 004. Perennial (Goldenrod - Stiff, Cont. #1)	EACH	25. 000	25. 000
0370	SPV. 0060	Special 005. Perennial (Grass - Blue Moore, Cont. #1)	EACH	35. 000	35. 000
0380	SPV. 0060	Special 006. Perennial (Grass - Karl Forester Reed, Cont. #1)	EACH	64. 000	64. 000
0390	SPV. 0060	Special 007. Perennial (Grass - Prairie Dropseed , Cont. #1)	EACH	116. 000	116. 000
0400	SPV. 0060	Special 008. Perennial (Grass - Little Bluestem, Cont. #1)	EACH	81. 000	81. 000
0410	SPV. 0060	Special 009. Perennial (Salvia - Perennial, Cont. #1)	EACH	135. 000	135. 000
0420	SPV. 0060	Special 010. Perennial (Sedum - Autumn Joy, Cont. #1)	EACH	91. 000	91. 000
0430	SPV. 0060	Special 011. Perennial (Susan - Black Eyed, Cont. #1)	EACH	66.000	66. 000
0440	SPV. 0060	Special 012. Flagpole 25' HT	EACH	2.000	2. 000
0450	SPV. 0060	Special 013. Flagpole 30' HT	EACH	1. 000	1. 000
0460	SPV. 0060	Special 014. Watering Bag	EACH	66.000	66.000
0470	SPV. 0060	Special 015. Masonry Wall	EACH	1. 000	1. 000
0480	SPV. 0060	Special 350. Flag Pole Light Fixture Special	EACH	9. 000	9. 000
0490	SPV. 0090	Special 001. Aluminum Edging	LF	135. 000	135.000
0500	SPV. 0105	Special 001. Survey Project (1517-75-87)	LS	1. 000	1. 000
0510	SPV. 0180	Special 002. Shredded Bark Mulch	SY	1, 293. 000	1, 293. 000
0520	SPV. 0180	Special 003. Crushed Red Granite Mulch	SY	85. 000	85. 000

								TRAFFIC CONTROL P	ROJECT	
		MOBILIZATION PROJECT NUMBER 1517-75-87	619.1000 MOBILIZATION EACH 1					ROJECT NUMBER 17-75-87	643.0100 TRAFIC CONTROL (1517-75-87) EACH	_
	7	TOTALS	1	=			TC	TALS	1	=
					EROSION CONTI	ROL				
		_	628.1104 EROSION BALES	628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL	628.2004 EROSION MAT CLASS I TYPE B	628.7010 INLET PROTECTION TYPE B	628.7015 INLET PROTECTION TYPE C
CATEGORY PRO 1000 1517		JNDISTRIBUTED	EACH 10	LF 500	LF 500	EACH 2	EACH 2	SY 100	EACH 10	EACH 10
	ALS		10	500	500	2	2	100	10	10
1017										
			RESTORAT	ON				SUR	VEY PROJECT (1517-75-	-87)
1014			RESTORAT 625.0100 TOPSOIL	ION 627.0200 MULCHING	629.0210 FERTILIZER TYPE B	630.0120 SEED MIXTURE NO. 20		SUR	S SUF	SPV.0105.001 RVEY PROJECT
CATEGORY F	PROJECT NUMBER		625.0100 TOPSOIL SY	627.0200 MULCHING SY	FERTILIZER	SEED MIXTURE NO. 20 LB			S SUF	SPV.0105.001 RVEY PROJECT (1517-75-87)
_CATEGORY_F	PROJECT NUMBER 1517-75-87	R UNDISTRIBUTED	625.0100 TOPSOIL	627.0200 MULCHING	FERTILIZER TYPE B	SEED MIXTURE NO. 20		SUR  CATEGORY PROJE  1000 1517-75	SUF CT NUMBER	SPV.0105.001 RVEY PROJECT

HWY: USH 10 COUNTY: WINNEBAGO MISCELLANEOUS QUANTITIES SHEET NO: PROJECT NO: 1517-75-87 FILE NAME : I:\56537\1517-75-87\t1\cds\030201\_mq.pptx PLOT DATE : 7/28/2016 3:41 PM PLOT BY : dfelber PLOT NAME: 030201\_mq PLOT SCALE : 1.000000:1.000000

### **WIRING**

		1 = 7 0	OLL 1 L/1110	FL79	SEE PLANS		<del>-</del>	•	•	10	20	40
		FL76 FL73	SEE PLANS	FL77 FL78	SEE PLANS	1	2	1	1	15	25 25	75 75
		FL75 FL76	SEE PLANS SEE PLANS	FL76 FL77	SEE PLANS SEE PLANS	1	2	1	1	15 15	25 25	75 75
		FL74	SEE PLANS	FL75	SEE PLANS	1	2	1	1	15	25 25	75 75
		FL73	SEE PLANS SEE PLANS	FL74	SEE PLANS SEE PLANS	1	2	1	1	15 15	25 25	75 75
		FL72	SEE PLANS	FL73	SEE PLANS	1	2	1	1	20	30	90 75
		FL71	SEE PLANS	FL72	SEE PLANS	1	2	1	1	15	25	75 00
		LPB112	STA 25+75	FL71	SEE PLANS	1	2	1	1	25	39	117
	MENASHA	LPB107	STA 25+02	LPB112	STA 25+75	1	2	1	1	-	85	255
	CITY OF	LPB104	STA 22+91	LPB107	STA 25+02	1	2	1	1	-	223	669
		LPB103	STA 23+18	LPB104	STA 22+91	1	2	1	1	-	71	213
	LIGHTING	LPB102	STA 26+65	LPB103	STA 23+18	1	2	1	1	-	55	165
1100	FLAG POLE	LPB101	STA 26+65	LPB102	STA 26+65	1	2	1	1	-	67	201
		CB-700	STA 26+35	LPB101	STA 26+65	1	2	1	1	-	46	138
										LF	LF	LF
										INCH	10 AWG	AWG
									CONDUCTORS			LIGHTING
						CONDUITS	PHASE	NEUTRAL	GROUND	NONMETALLIC	WIRE	WIRE
0711240111	O TO TEIM	05/1 022/1 5	1110111	05/1022/15	10	# OF	# OF	# OF	# OF	CONDUIT RIGID		655.06 ELECTRI
CATEGORY	ng - Contract 1 SYSTEM	CB/POLE/PB	FROM	CB/POLE/PB	ТО	# OF	# OF	# OF	# OF	652.0210	655.0	

WIS 441 Ligh	ting - Contr	act 1517-75	- 87	
CATEGORY	SYSTEM	LOCATION	STATION	SPV.0060.350 FLAG POLE LIGH FIXTURE SPECIA
				EACH
1100	FLAG POLE	FL71	SEE PLANS	1
	LIGHTING	FL72	SEE PLANS	1
		FL73	SEE PLANS	1
		FL74	SEE PLANS	1
		FL75	SEE PLANS	1
		FL76	SEE PLANS	1
		FL77	SEE PLANS	1
		FL78	SEE PLANS	1
		FL79	SEE PLANS	1
OJECT TOTAL				9

ALL ITEMS ARE CATEGORY 1100 UNLESS OTHERWISE SPECIFIED.

PROJECT NUMBER: 1517-75-87 HWY: USH 10 COUNTY: WINNEBAGO MISCELLANEOUS QUANTITIES SHEET NO: E

						PLANTI	NG SHE	ET NU	MBERS	<b>S</b>			TOTALS
CATEGORY 1400			1	2	3	4	5	6	7	8	9	10	
BID ITEMS	SYM.	COMMON NAME	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
		DECIDUOUS TREES (SHADE)											
632.0101.001	CH*	Hackberry - Common		1								3	4
632.0101.003	KC*	Coffeetree - Kentucky 'Espresso'										3	3
632.0101.005	FM*	Maple - Freeman 'Autumn Blaze'	3	1				2		2		4	12
632.0101.007	SM*	Maple - Sugar		1								2	3
632.0101.009	BO*	Oak - Burr		3							1		4
632.0101.011	SWO*	Oak - Swamp White	4					5		1	3		13
		DECIDUOUS TREES (ORNAMENTAL)		_						_	_		
632.0101.013		Crabapple - 'Spring Snow'			2							4	6
632.0101.015		Hawthorn - Thornless Cockspur		3	3						7	5	18
632.0101.017	HH*	Hophornbeam										3	3
		EVERGREENS											
632.0101.021	Т	Tamarack		3								5	8
632.0101.023	ERC	Redcedar - Eastern		5							10	3	18
632.0101.025	WS	Spruce - White		3							13		16
		<u>SHRUBS</u>											
632.0201.027	DBH	Honeysuckle - Dwarf Bush			15								15
632.0201.029	GLS	Sumac - Gro Low			14								14
* Use Water Bag													

						PLANTI	NG SHE	ETNU	MBERS	}			TOTALS
CATEGORY 1400			1	2	3	4	5	6	7	8	9	10	
BID ITEMS	SYM.	COMMON NAME	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
PERENNIALS, GRASSES & GROUNDCOVERS													
SPV.0060.001	AP	Aster - Professor Kippenburg			111								111
SPV.0060.002	PC	Coneflower - Purple			16	10	10						36
SPV.0060.003	ATC	Achillea - Terra Cotta			39	109	29		80				257
SPV.0060.004	GS	Goldenrod - Stiff			13		12						25
SPV.0060.005	BMG	Grass - Blue Moore			13	16			6				35
SPV.0060.006	KFG	Grass - Karl Forester Reed			34		14		16				64
SPV.0060.007	PDG	Grass - Prairie Dropseed			81		17		18				116
SPV.0060.008	LBG	Grass - Little bluestem			50	20			11				81
SPV.0060.009	SP	Salvia - Perennial			49				86				135
SPV.0060.010	AS	Sedum - Autumn Joy			12	24	22		33				91
SPV.0060.011	BES	Susan - Black Eyed			32	17	10		7				66

PROJECT NO: 1517-75-87 HWY: USH 10 COUNTY: WINNEBAGO MISCELLANEOUS QUANTITIES SHEET NO: **E** 

FILE NAME : I:\56537\1517-75-87\t1\cds\030201\_mq.pptx PLOT NAME : 030201\_mq PLOT SCALE : 1.000000:1.000000 WISDOT / CADDS SHEET 42

### 3

### LANDSCAPE ITEMS

632.9101 LANDSCAPE PLANTING

		2 "1200" " 2 1 2 "11"			
		SURVEILLANCE AND	SPV.0090.001	SPV.0180.002	SPV.0180.003
		CARE CYCLES	ALUMINUM EDGING	SHREDDED BARK MULCH	CRUSHED RED GRANITE MULCH
CATEGORY	PROJECT NUMBER	EACH	LF	SY	SY
1400	1517-75-87	24	135	1,293	85
	TOTALS	24	135	1293	85

		SPV.0060.012 FLAGPOLE 25' HT	SPV.0060.013 FLAGPOLE 30' HT	SPV.0060.014 WATERING BAG
CATEGORY	PROJECT NUMBER	EACH	EACH	EACH
1400	1517-75-87	2	1	66
	TOTALS	2	1	66

### MASONRY WALL

PROJECT NO: 1517-75-87 HWY: USH 10 COUNTY: WINNEBAGO MISCELLANEOUS QUANTITIES SHEET NO: **E** 

### Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-09	CONDUI T
14A02-01	TREE PLANTING DETAIL
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-03A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

### **GENERAL NOTES**

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

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



### **PLAN VIEW**



#### FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

**EROSION BALES FOR SHEET FLOW** 

### TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

Ō Ö

 $\infty$  $\infty$ Ω

Δ

### TYPICAL APPLICATION OF SILT FENCE

6

b

Ō

Ш





# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



### **GENERAL NOTES**

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

- $\bigcirc$  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 11/8" X 11/8" 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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

6

٥

D.D. 8 E 9





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

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 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 A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

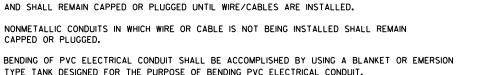
10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

0

ш

 $\infty$ 



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.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM

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

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

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION

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

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES

SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

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 REIN-STALLED 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

**GENERAL NOTES** 

AND 36 INCHES MAXIMUM.

OF THE ENGINEER.

CAPPED OR PLUGGED.

MINIMUM AND 36 INCHES MAXIMUM.

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.).

TRACER 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.

BOTTOM OF ¼" HOLE PVC CONDUIT-CONDUIT TRENCH FOR DRAINAGE NO. 2 COARSE AGGREGATE FILL —1'-0" DIA. OR SQUARE —>

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

BOTTOM OF

CONDUIT TRENCH

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

DRAIN SUMP FOR METALLIC CONDUIT

1'-0" DIA. OR SQUARE ──➤

METALLIC CONDUIT-

1" DIA. X 6"

NIPPLE

NO. 2 COARSE

AGGREGATE FILL

ARROW MARK SHALL BE INSCRIBED IN PAVEMENT SURFACE 1/4" TO 3/8"

DEEP AT EACH LOCATION WHERE CONDUITS ARE PLACED UNDER

**PLAN VIEW** 

ARROW MARK

CONDUIT

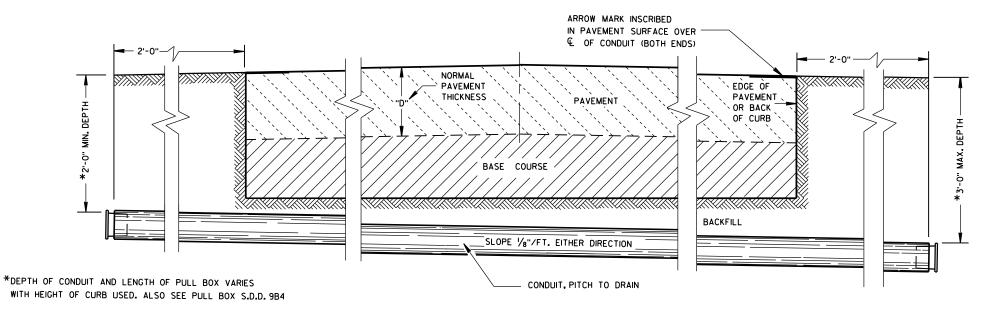
THE PAVEMENT

EDGE OF

PAVEMENT OR BACK

OF CURB

DRAIN SUMP FOR PVC CONDUIT



SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

 $\mathbf{\omega}$ 

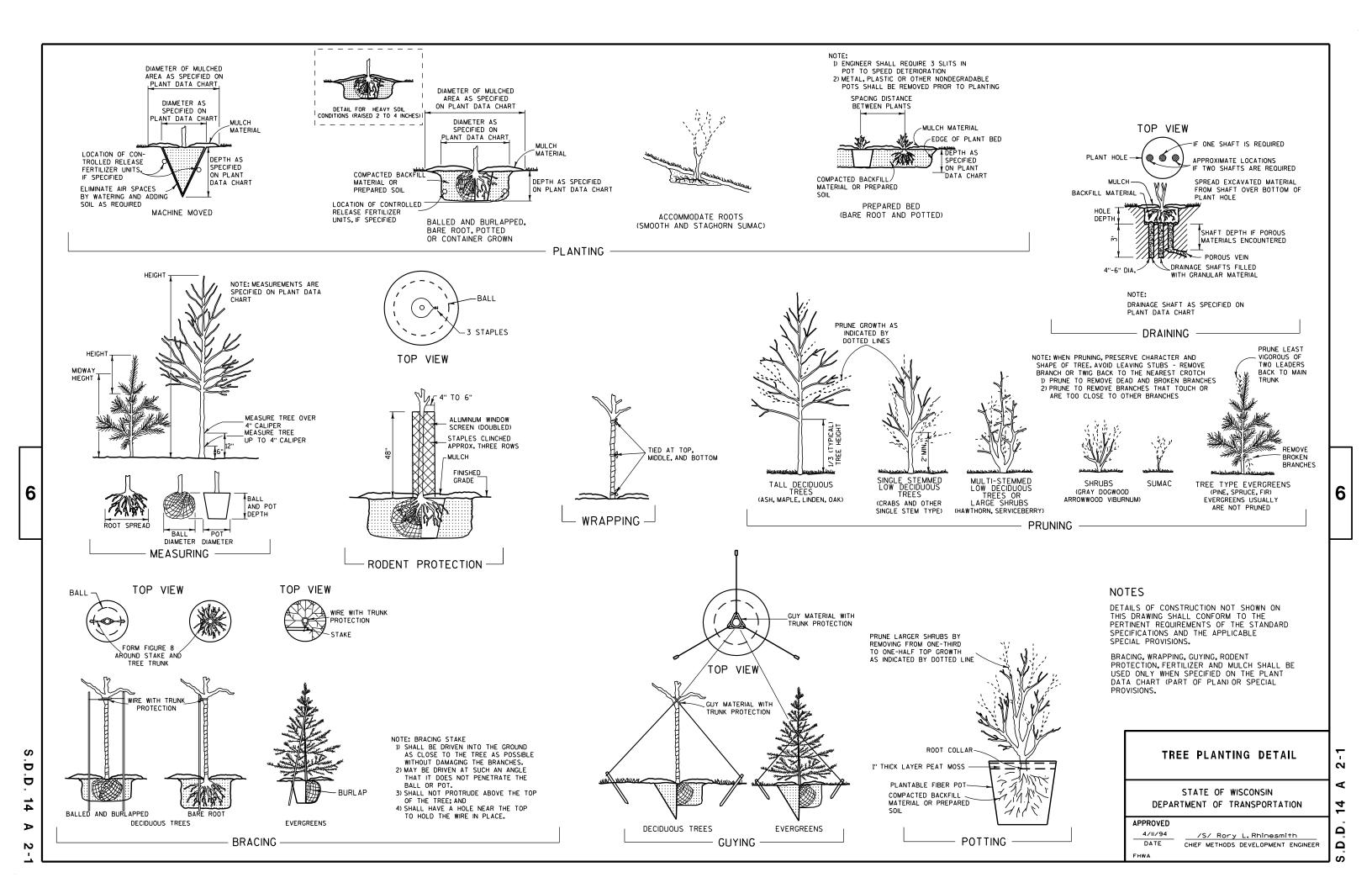
Ω

**APPROVED** /S/ Ahmet Demirbilek June. 2015 DATE STATE ELECTRICAL ENGINEER

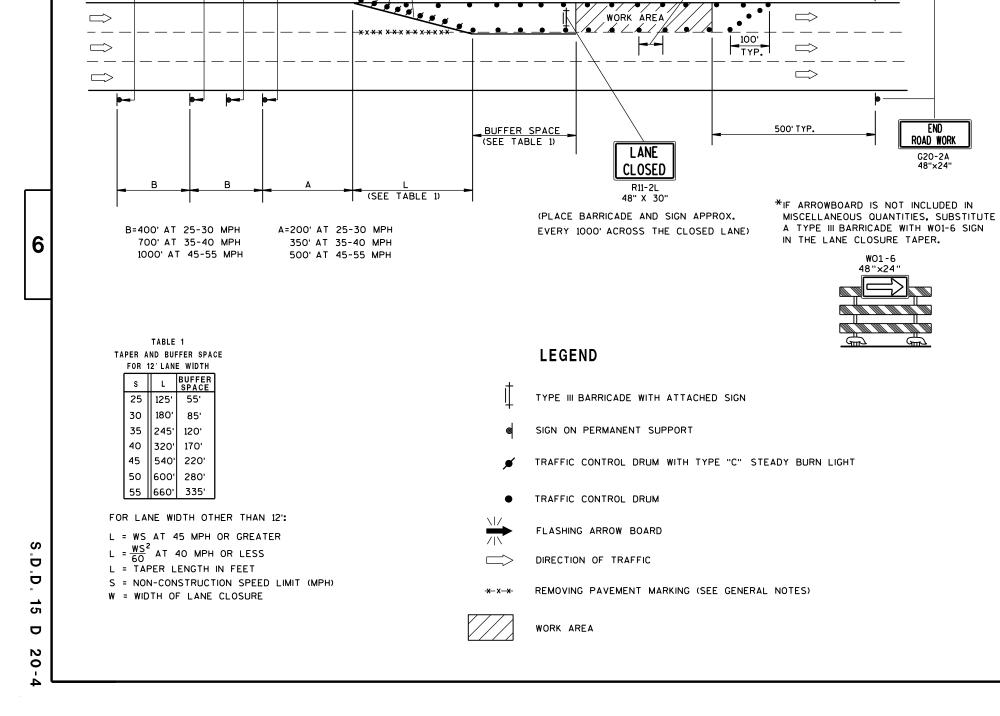
D ဖ ₩

6

FHWA







(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

TEMPORARY PAVEMENT MARKING.

4-INCH REMOVABLE TAPE (WHITE ON RIGHT,

25'@ 35 MPH OR LESS 50'@ 40 MPH OR MORE

YELLOW ON LEFT)

SPACING:

ROAD WORK

NEXT\_\_\_MILES

G20-1

60" X 24"

CLOSED

AHEAD

AHEAD

### **GENERAL NOTES**

\*\*THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF

50' MAX. @ 35 MPH OR LESS

100' MAX. @ 40 MPH OR MORE

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC. IN ADVANCE OF THE WORK AREA.

SPACING:

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

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

ALL SIGNS ARE 48"×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, OR THAT WILL BE PLACED IN A CLOSED LANE, 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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

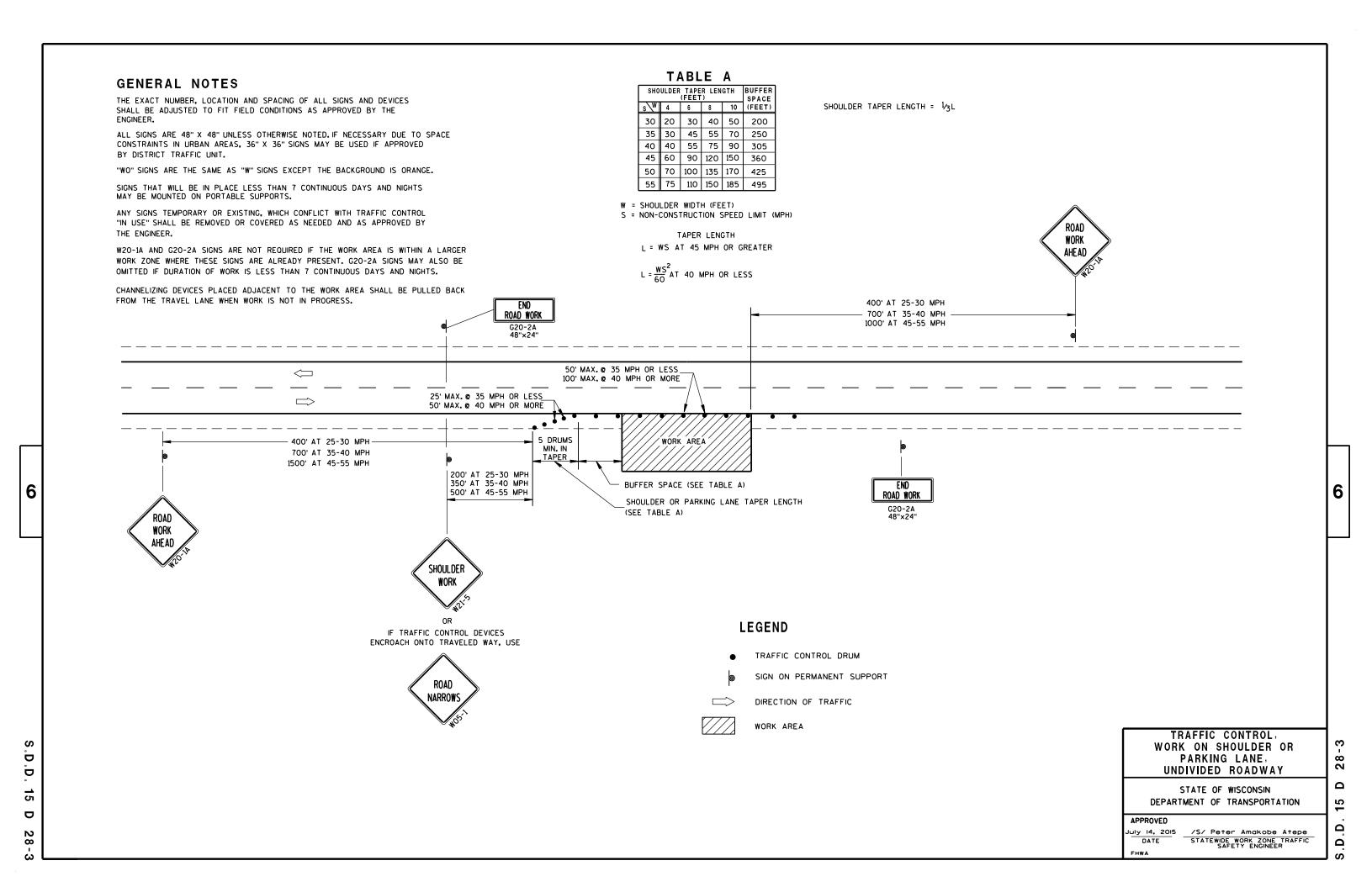
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

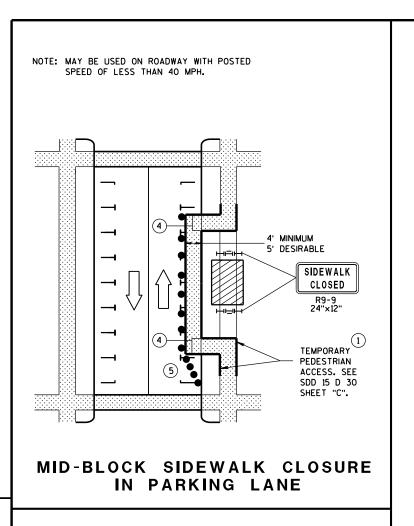
**APPROVED** June 2016

/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

Ω

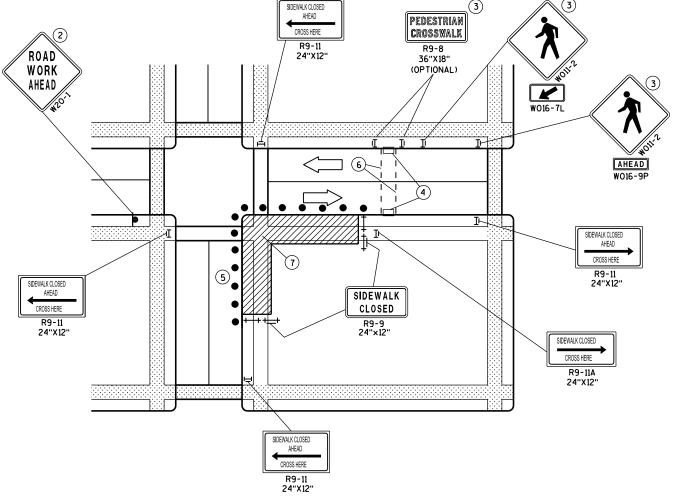
2





SIDEWALK CLOSED CROSS HERE 24"X12" SIDEWALK CLOSED R9-9 24"×12" SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24"X12"





### **GENERAL NOTES**

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN

### TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ω

Ω

NOTE: LAYOUT SAME AS ABOVE. 6 4' MINIMUM 5' DESIRABLE SIDEWALK CLOSED RQ-Q TEMPORARY PEDESTRIAN ACCESS. SEE SDD 15 D 30 SHEET "C". D D 15 D SIDEWALK DIVERSION 0

CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK **LEGEND** DIRECTION OF SIGN ON PERMANENT TRAFFIC SUPPORT UNDER PEDESTRIAN TRAFFIC CONTOL TRAFFIC DRUM WORK AREA PEDESTRIAN CHANNELIZATION DEVICE TYPE II BARRICADE WITH/WITHOUT SIGN (ALL (3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT WITH ONE WARNING LIGHT, TYPE A. LOW-INTENSITY FLASHING) TYPE III BARRICADE WITH/WITHOUT SIGN (ALL (5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING WITH ONE WARNING က LIGHT, TYPE A, LOW-INTENSITY FLASHING) 0 က Ω



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov