PROJECT ID: 3082-00-71
WITH: 3082-01-71

COUNTY: JEFFERSON

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 =

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

JEFFERSON - SULLIVAN ROAD ①

(EAST CITY LIMITS - CTH F) ③

USH 18 ②

JEFFERSON COUNTY ②

STATE PROJECT NUMBER
3082-00-71 ②

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3082-00-71		

③

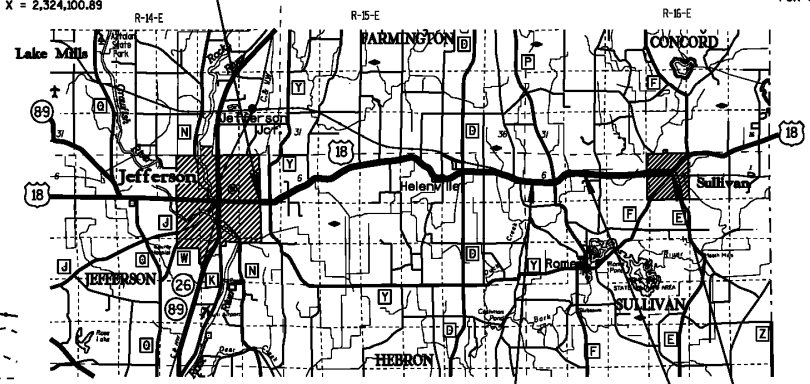
LETTERING SIZES
(LEROY GUIDE OR EQUIVALENT)

LINE	GUIDE NO.	HEIGHT (INCHES)	PEN NO.	WIDTH (INCHES)
①	500	0.50	6-8	.067-.098
②	350	0.35	4-6	.043-.067
③	200	0.20	3	.035
④	140	0.14	1	.021
⑤	120	0.12	0	.015

NOTE: THESE TEXT SIZES ARE BASED ON A FULL SIZE PLAN, FOR OTHER SIZE PLANS, REDUCE THE TEXT SIZE ACCORDINGLY.

N

③ BEGIN PROJECT
STA. 58+29
④ Y = 368,609.14
X = 2,324,100.89



EQUATION
STA. 454+36.85 BK.=
STA. 1113+98.89 AH.
④

EQUATION
STA. 1178+90.20 BK.=
STA. 2109+95.00 AH.
④

END PROJECT ③
STA. 2220+43

DESIGN DESIGNATION

		(JEFFERSON-HELENVILLE)	(HELENVILLE-SULLIVAN)
A.A.D.T. (1991)	=	2,500	1,360
A.A.D.T. (2011)	=	3,160	1,660
D.H.V.	=	448	235
D.D.	=	60-40	60-40
T.	=	10.5%	10.5%
DESIGN SPEED	=	55 MPH	55 MPH
ESALS	=	226,300	118,800

④

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- 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 (NG 955.5)
- 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 MI.

⑤ TOTAL NET LENGTH OF CENTERLINE = 10.802 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATE SYSTEM, JEFFERSON COUNTY, NAD83 (1997) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. ⑤

ACCEPTED FOR
COUNTY of JEFFERSON
(Date) (Signature & Title of Official)

ACCEPTED FOR
VILLAGE of SULLIVAN
(Date) (Signature & Title of Official)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor
Designer
Project Manager
Regional Examiner
Regional Supervisor
C.O. Examiner

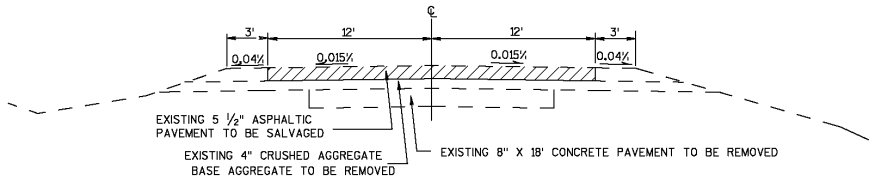
APPROVED FOR THE DEPARTMENT
DATE: (Signature)

E

FILE NAME : C:\Users\dot11h\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A510.DGN PLOT DATE : 25-APR-2013 15:15 PLOT BY : ##...plotuser...## PLOT NAME : PLOT SCALE : 206.428465:1.000000

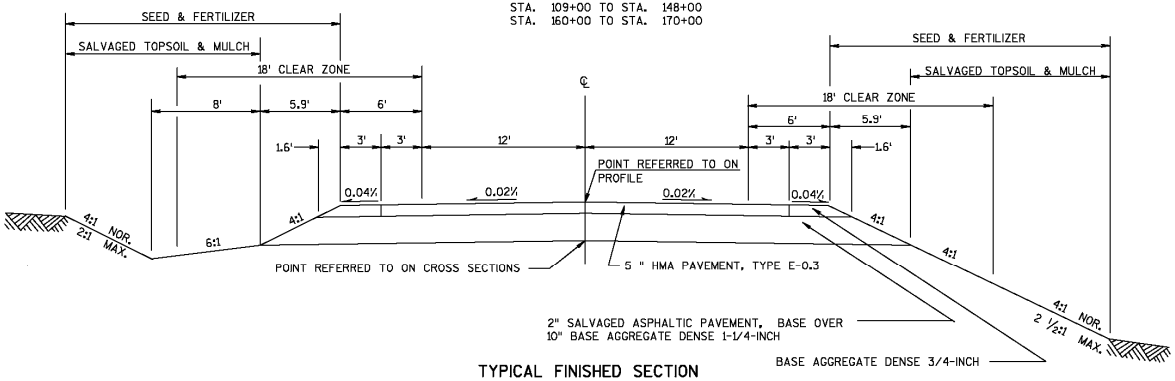
WISDOT/CADDS SHEET 10

2



TYPICAL EXISTING SECTION

STA. 89+50 TO STA. 92+00
STA. 109+00 TO STA. 148+00
STA. 160+00 TO STA. 170+00



TYPICAL FINISHED SECTION

STA. 89+50 TO STA. 92+00
STA. 109+00 TO STA. 148+00
STA. 160+00 TO STA. 170+00

GENERAL NOTES

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

THE LOCATIONS OF PRIVATE ENTRANCES WILL BE DETERMINED BY THE ENGINEER. EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS, BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR A MONUMENT WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY THE ENGINEER IN THE FIELD

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

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

THE 5-INCH HMA PAVEMENT, TYPE E-0.3 SHALL CONSIST OF A 1½- INCH UPPER LAYER AND TWO 1?- INCH LOWER LAYERS.

CONSTRUCTION PERMITS FOR DRIVEWAY CONSTRUCTION HAVE BEEN OBTAINED AND SUCH RIGHTS WILL BE EXTENDED TO THE CONTRACTOR.

UTILITIES

WISCONSIN ELECTRIC POWER COMPANY
MR. JIM BAILLON
231 WEST MICHIGAN STREET
MILWAUKEE, WISCONSIN 53201
PHONE: 414-221-2145

WISCONSIN NATURAL GAS COMPANY
MR. DUANE MILLER
206 WEST MILWAUKEE AVENUE
FORT ATKINSON, WISCONSIN 53538

WISCONSIN BELL INC.
MR. DENNIS SCHOEBERLE
301 EAST MILWAUKEE STREET
JANESVILLE, WISCONSIN 53545
PHONE: 608-755-5600

DNR CONTACT
MR. RUSSELL ANDERSON
SOUTHERN DISTRICT HEADQUARTERS
3911 FISH HATCHERY ROAD
FITCHBURG, WISCONSIN 53711
PHONE: 608-275-3266

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

PAVEMENT CORE LOG

CORE NO	STATION	OFFSET FROM ℄	ASPHALT DEPTH IN INCHES	UNDERLAYING MATERIAL
1	68	8 RT	6.00	PCC
10	85	7 LT	8.25	PCC
2	102	4 RT	6.75	PCC
9	119	9 LT	8.50	BASE
3	136	6 RT	6.75	PCC
8	153	4 LT	6.75	PCC
4	170	9 RT	5.75	PCC
7	187	8 LT	9.00	BASE
5	204	5 RT	7.00	PCC
6	221	6 LT	8.00	PCC
11	238	5 RT	7.00	BASE

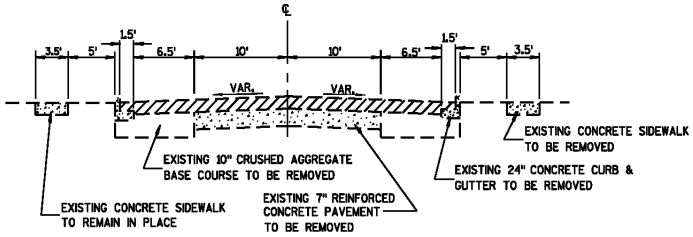
STANDARD ABBREVIATIONS

CE	COMMERCIAL ENTRANCE
DG	DITCH GRADE
HYD	HYDRANT
NC	NORMAL CROWN
TLE	TEMPORARY LIMITED EASEMENT
PLE	PERMANENT LIMITED EASEMENT

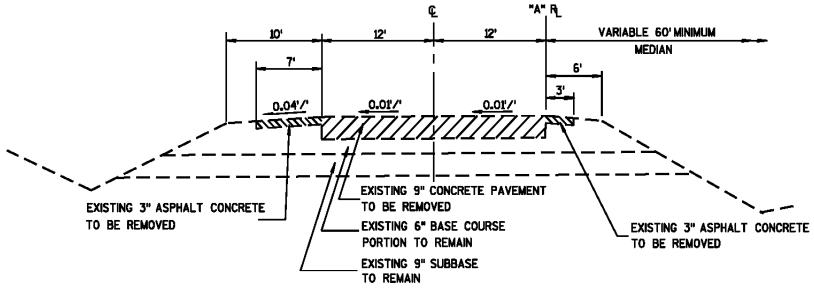
PROJECT NO:XXXX-XX-XX	HWY:XXX	COUNTY:XXX	XXX	SHEET	E

FILE NAME : C:\USERS\DOTL1H\DESKTOP\FDM UPDATES CH12-15\CHAPTER 15 UPDATES\FW1501A520.DWG PLOT DATE : 9/3/2013 1:40 PM PLOT BY : HERRMANN, LISA J PLOT NAME : PLOT SCALE : 1 IN:200 FT WISDOT/CADDS SHEET 42

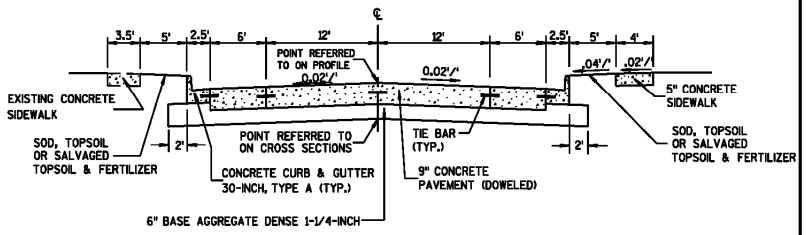
2



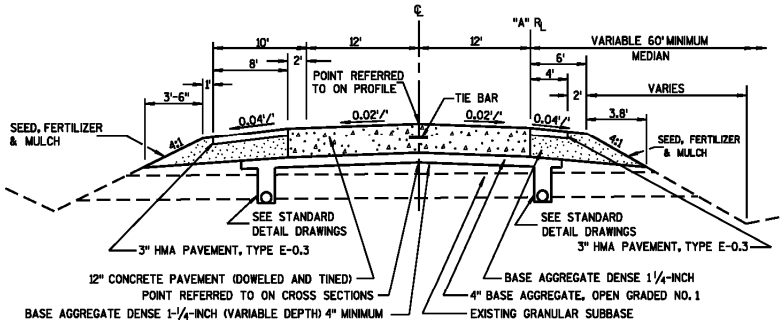
TYPICAL EXISTING SECTION
STA. 1409+50 TO 1421+00



TYPICAL EXISTING SECTION
STATION 287+49 A TO 365+25 A



TYPICAL FINISHED SECTION
STA. 1409+50 TO STA. 1421+00



TYPICAL FINISHED SECTION
STATION 287+49 A TO 365+25 A

2

PROJECT NO: 1234-05-76	HWY: STH 99	COUNTY: WAUKESHA	TYPCIAL SECTIONS	SHEET NO:	E

FILE NAME : C:\Users\dot11h\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A530.DGN PLOT DATE : 25-APR-2013 15:17 PLOT BY : ##...plotuser...## PLOT NAME : PLOT SCALE : 17.187500:1.000000 WISDOT/CADDS SHEET 42

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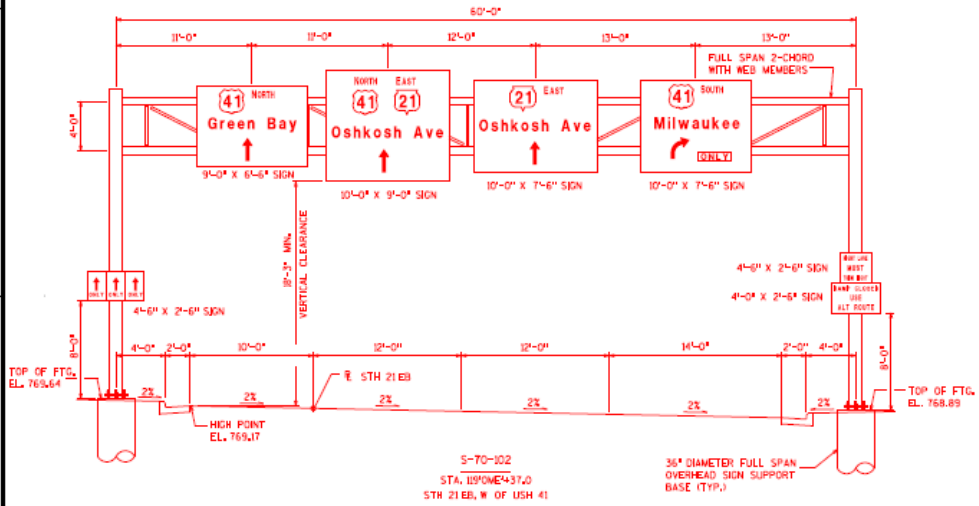


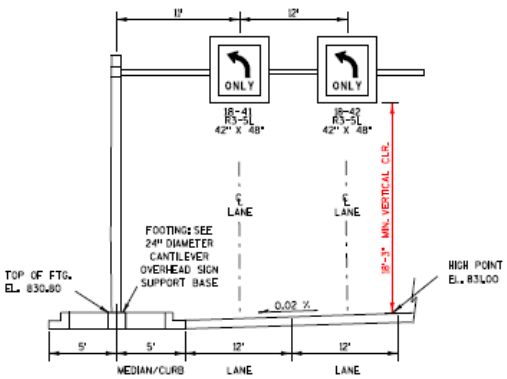
NOTES:

1. PROVIDE AN IDENTIFICATION PLAQUE FOR OVERHED SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT".
2. DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF THE STATE OF WISCONSIN "STANDARD SPECIFCATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", 6TH EDITION AND INTERIM REVISIONS. FATIGUE LOADS ARE NOT APPLIED.
3. SIZE THE ANCHOR ROD / TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN THE CONTRACT PLANS IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.
4. SIGNS OR BLANKS SHALL BE INSTALLED ON THE OVERHEAD SIGN SUPPORT AT THE TIME OF ERECTION. BLANKS SHALL BE OF THE SAME SIZE AND LOCATION AS PERMANENT SIGNS.
5. DESIGN THE STRUCTURE BASE PLATE CONNECTION TO ACCOMMODATE A MINIMUM OF SIX (6) ANCHOR RODS.
6. REFER TO SIGN PLATE NO. A4-7.4 FOR ATTACHMENT OF SIGNS TO THE OVERHEAD SIGN SUPPORT.

NOTES:

1. PROVIDE AN IDENTIFICATION PLAQUE FOR OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT".
2. DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", 6TH EDITION AND INTERIM REVISIONS. FATIGUE CATEGORY I.
3. SIZE THE ANCHOR RODS / TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN THE CONTRACT PLANS IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.
4. SIGNS OR BLANKS SHALL BE INSTALLED ON THE OVERHEAD SIGN SUPPORT AT THE TIME OF ERECTION. BLANKS, IF USED, SHALL BE OF THE SAME SIZE AND LOCATION AS PERMANENT SIGNS.
5. DESIGN THE STRUCTURE BASE PLATE CONNECTION TO ACCOMMODATE A MINIMUM OF SIX (6) ANCHOR RODS.
6. REFER TO SIGN PLATE NO. A4-7.4 FOR ATTACHMENT OF SIGNS TO OVERHEAD SIGN SUPPORTS.

2

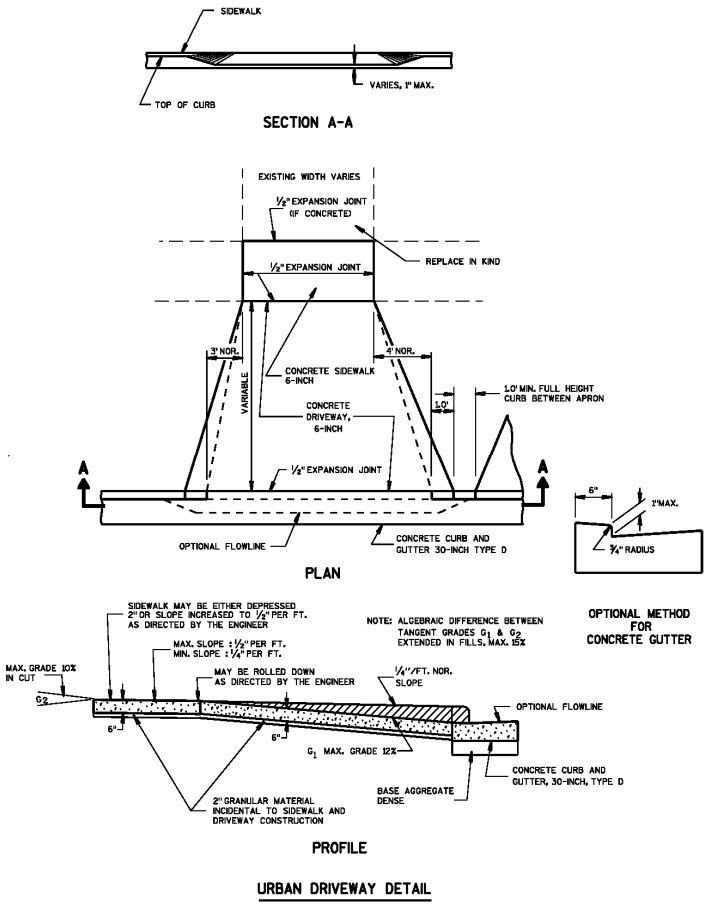


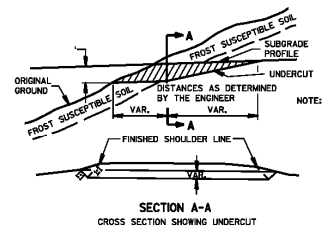
S-49-988
(STA. 45+32, LT)

PROJECT NO: 2222-02-71	HWY: STH 98	COUNTY: PORTAGE	CONSTRUCTION DETAILS	SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\de_fdm\FM15014541.DGN PLOT DATE : 26-JUL-2016 14:30 PLOT BY : dorddh PLOT NAME : PLOT SCALE : 206.15097831.000000 WISDOT/CADDS SHEET 42

2





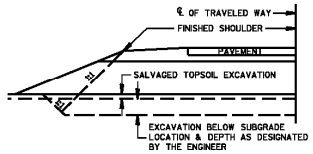
DETAIL FOR EXCAVATION BELOW SUBGRADE AT CUTS

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

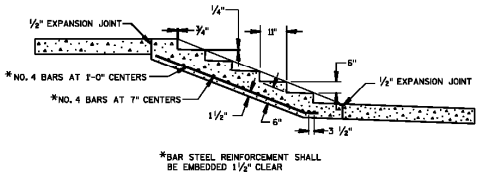
E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER.

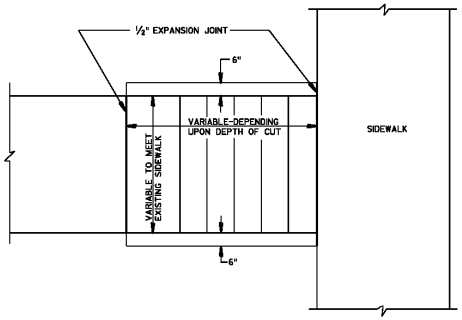
BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.

THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.



DETAIL FOR EXCAVATION BELOW SUBGRADE

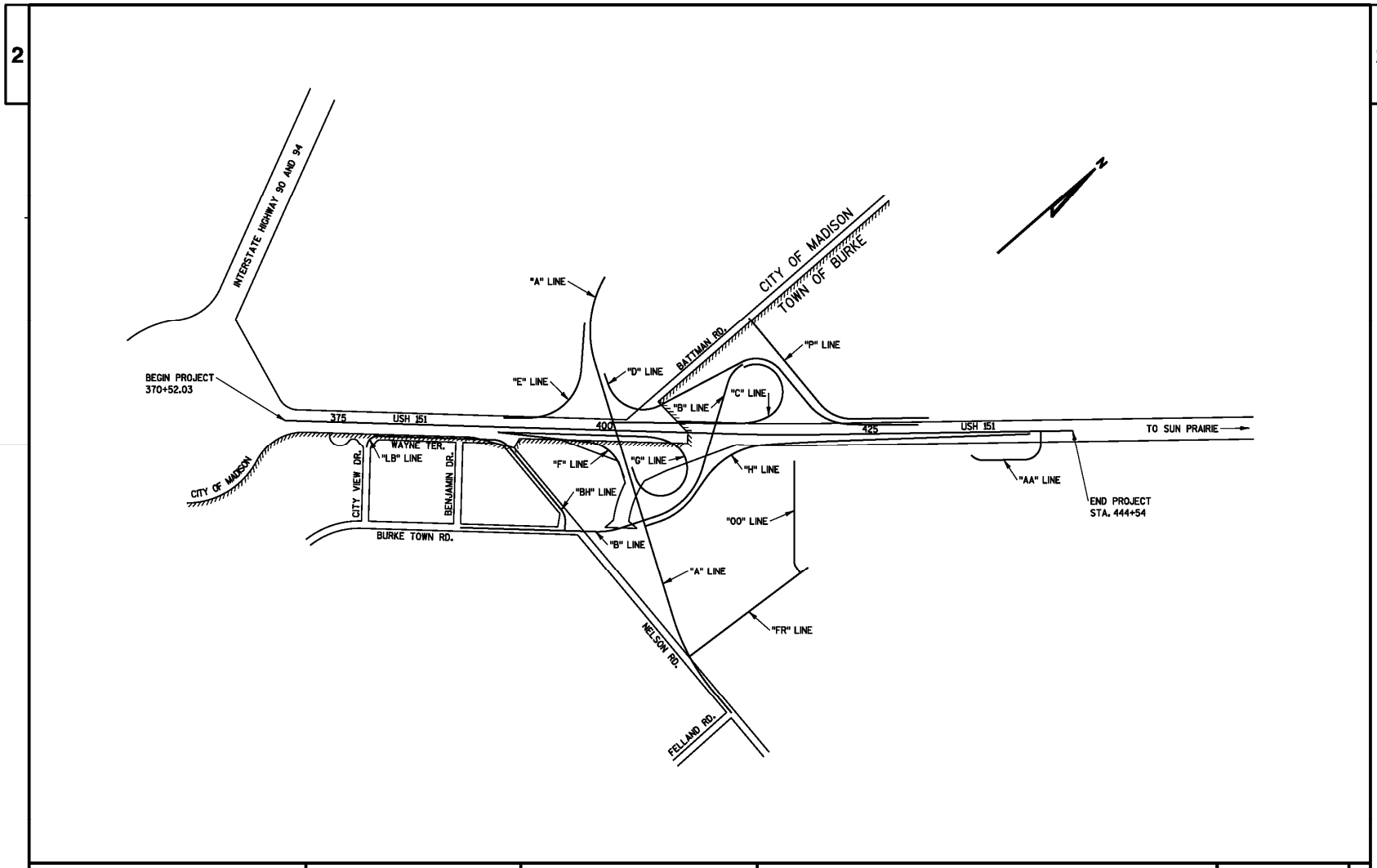




DETAIL OF CONCRETE STEPS

PROJECT NO: 2222-02-71	HWY: SHT 98	COUNTY: PORTAGE	CONSTRUCTION DETAILS	SHEET NO:	E

FILE NAME : C:\Users\dotilh\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM15015A542.DGN PLOT DATE : 25-APR-2013 15:17 PLOT BY : ##...plotuser...## PLOT NAME : PLOT SCALE : 205.681034:1.000000 WISDOT/CADDS SHEET 42



PROJECT NO: 1112-07-71	HWY: USH 151	COUNTY: DANE	PROJECT OVERVIEW	SHEET NO:	E

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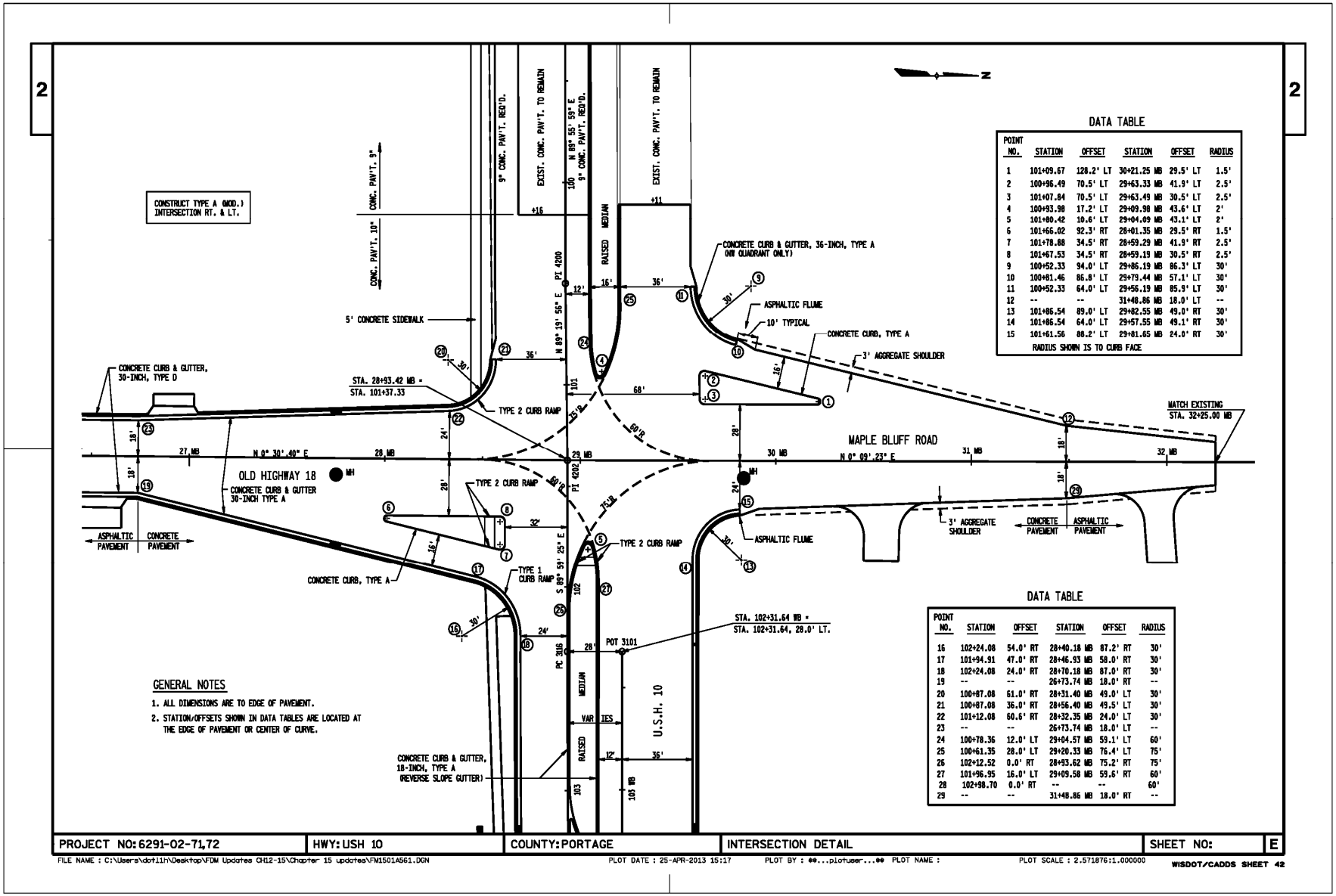


DATA TABLE

POINT NO.	STATION	OFFSET	STATION	OFFSET	RADIUS
1	101+09.67	128.2' LT	30+21.25 MB	29.5' LT	1.5'
2	100+96.49	70.5' LT	29+63.33 MB	41.9' LT	2.5'
3	101+07.84	70.5' LT	29+63.49 MB	30.5' LT	2.5'
4	100+93.98	17.2' LT	29+09.98 MB	43.6' LT	2'
5	101+80.42	10.6' LT	29+04.09 MB	43.1' LT	2'
6	101+66.02	92.3' RT	28+01.35 MB	29.5' RT	1.5'
7	101+78.88	34.5' RT	28+59.29 MB	41.9' RT	2.5'
8	101+67.53	34.5' RT	28+59.19 MB	30.5' RT	2.5'
9	100+52.33	94.0' LT	29+86.19 MB	86.3' LT	30'
10	100+81.46	86.8' LT	29+79.44 MB	57.1' LT	30'
11	100+52.33	64.0' LT	29+56.19 MB	85.9' LT	30'
12	--	--	31+48.86 MB	18.0' LT	--
13	101+86.54	89.0' LT	29+82.55 MB	49.0' RT	30'
14	101+86.54	64.0' LT	29+57.55 MB	49.1' RT	30'
15	101+61.56	88.2' LT	29+81.65 MB	24.0' RT	30'

RADIUS SHOWN IS TO CURB FACE

DATA TABLE

POINT NO.	STATION	OFFSET	STATION	OFFSET	RADIUS
16	102+24.08	54.0' RT	28+40.18 MB	87.2' RT	30'
17	101+94.91	47.0' RT	28+46.93 MB	58.0' RT	30'
18	102+24.08	24.0' RT	28+70.18 MB	87.0' RT	30'
19	--	--	26+73.74 MB	18.0' RT	--
20	100+87.08	61.0' RT	28+31.40 MB	49.0' LT	30'
21	100+87.08	36.0' RT	28+56.40 MB	49.5' LT	30'
22	101+12.08	60.6' RT	28+32.35 MB	24.0' LT	30'
23	--	--	26+73.74 MB	18.0' LT	--
24	100+78.36	12.0' LT	29+04.57 MB	59.1' LT	60'
25	100+61.35	28.0' LT	29+20.33 MB	76.4' LT	75'
26	102+12.52	0.0' RT	28+93.62 MB	75.2' RT	75'
27	101+96.95	16.0' LT	29+09.58 MB	59.6' RT	60'
28	102+98.70	0.0' RT	--	--	60'
29	--	--	31+48.86 MB	18.0' RT	--

STA.	OFFSET LT. TO FLANGE FT.	OFFSET RT. TO FLANGE FT.
21+00"B"	28.00	9.00
21+25"B"	28.00	9.00
21+50"B"	28.00	9.25
21+75"B"	27.50	9.50
22+00"B"	27.00	9.75
22+25"B"	25.50	10.00
22+50"B"	26.00	10.25
22+75"B"	25.50	10.50
23+00"B"	25.00	10.71
23+25"B"	24.50	10.00
23+50"B"	24.00	9.29
24+00"B"	24.00	7.86
24+50"B"	24.00	6.43
25+00"B"	24.00	5.00
25+50"B"	24.00	3.57
26+00"B"	24.00	2.14
26+50"B"	24.00	0.71

"B" LINE SUPERELEVATION DATA (SB)

STA.	RATE('/')	REMARKS
21"B"+00	-0.020	END NORMAL CROWN
22"B"+50	-0.066	BEGIN FULL SUPER
26"B"+75	-0.066	END FULL SUPER
28"B"+00	-0.020	BEGIN NORMAL CROWN

"B" LINE SUPERELEVATION DATA (NB)

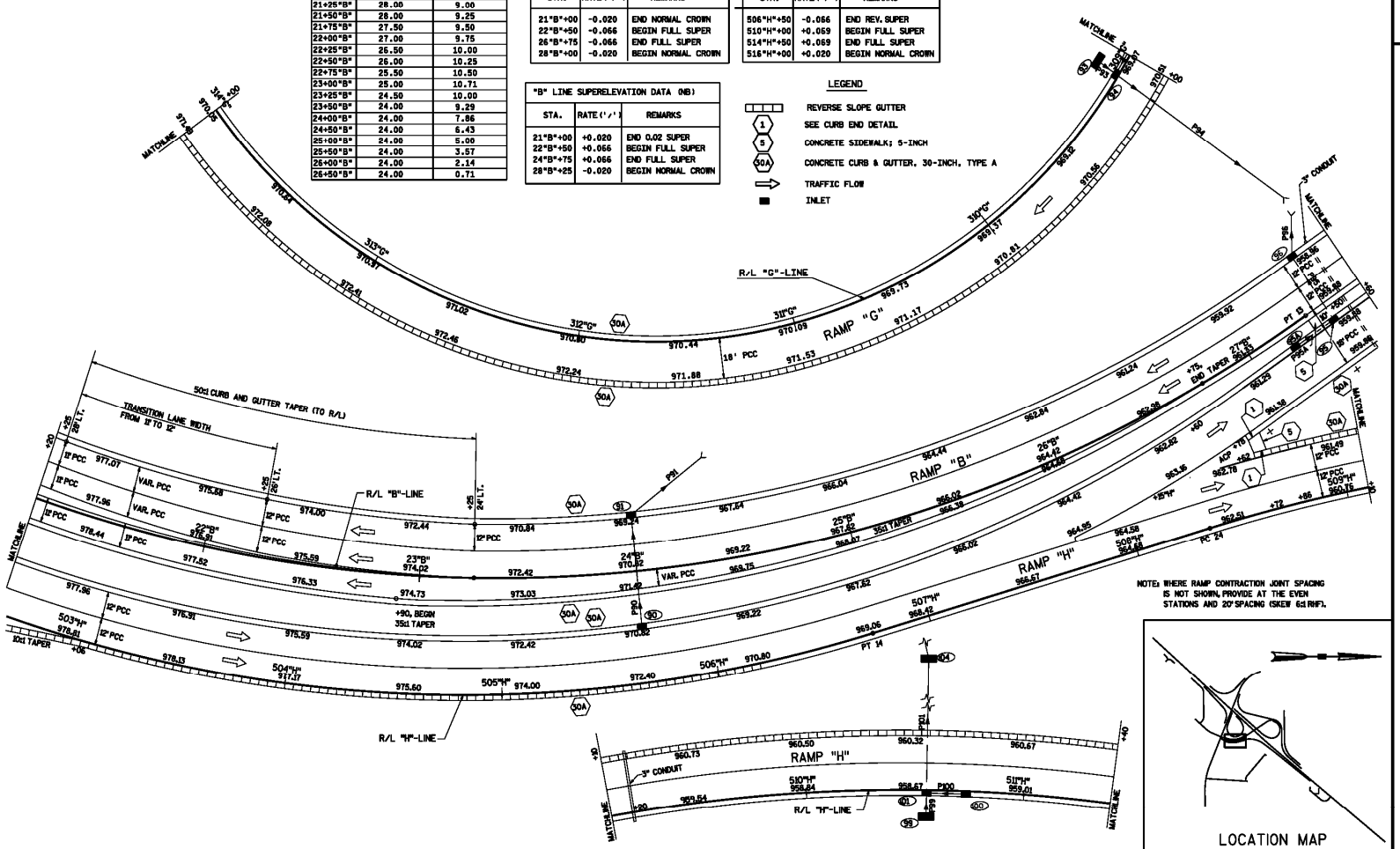
STA.	RATE('/')	REMARKS
21"B"+00	+0.020	END 0.02 SUPER
22"B"+50	+0.066	BEGIN FULL SUPER
24"B"+75	+0.066	END FULL SUPER
28"B"+25	-0.020	BEGIN NORMAL CROWN

"H" LINE SUPERELEVATION DATA

STA.	RATE('/')	REMARKS
506"H"+50	-0.066	END REV. SUPER
510"H"+00	+0.069	BEGIN FULL SUPER
514"H"+50	+0.069	END FULL SUPER
516"H"+00	+0.020	BEGIN NORMAL CROWN

LEGEND

- REVERSE SLOPE GUTTER
- (1) SEE CURB END DETAIL
- (5) CONCRETE SIDEWALK; 5-INCH
- (30A) CONCRETE CURB & GUTTER, 30-INCH, TYPE A
- TRAFFIC FLOW
- INLET



PROJECT NO: 1112-07-71	HWY: USH 151	COUNTY: DANE	INTERCHANGE DETAIL & DRAINAGE	SHEET NO:	E

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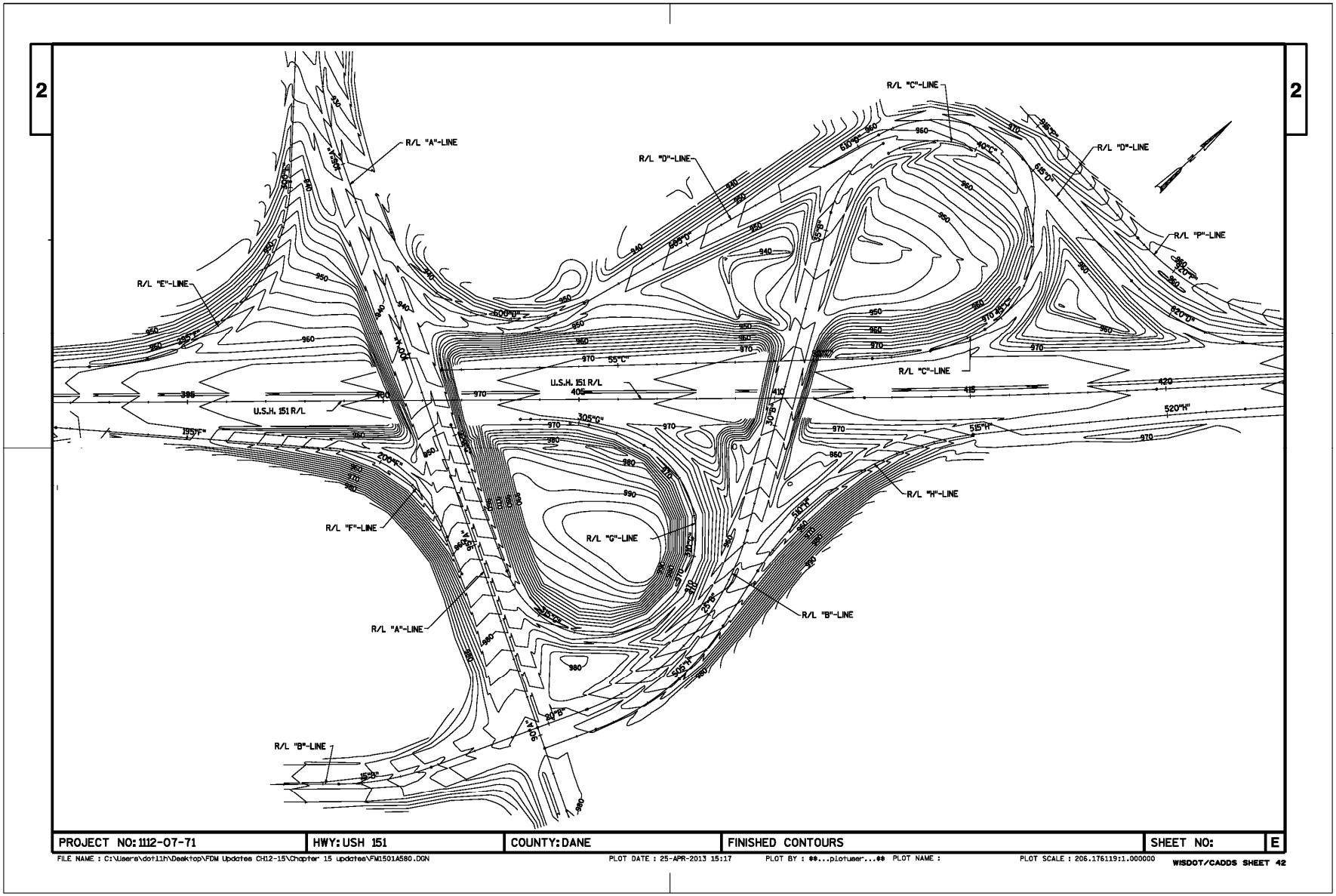
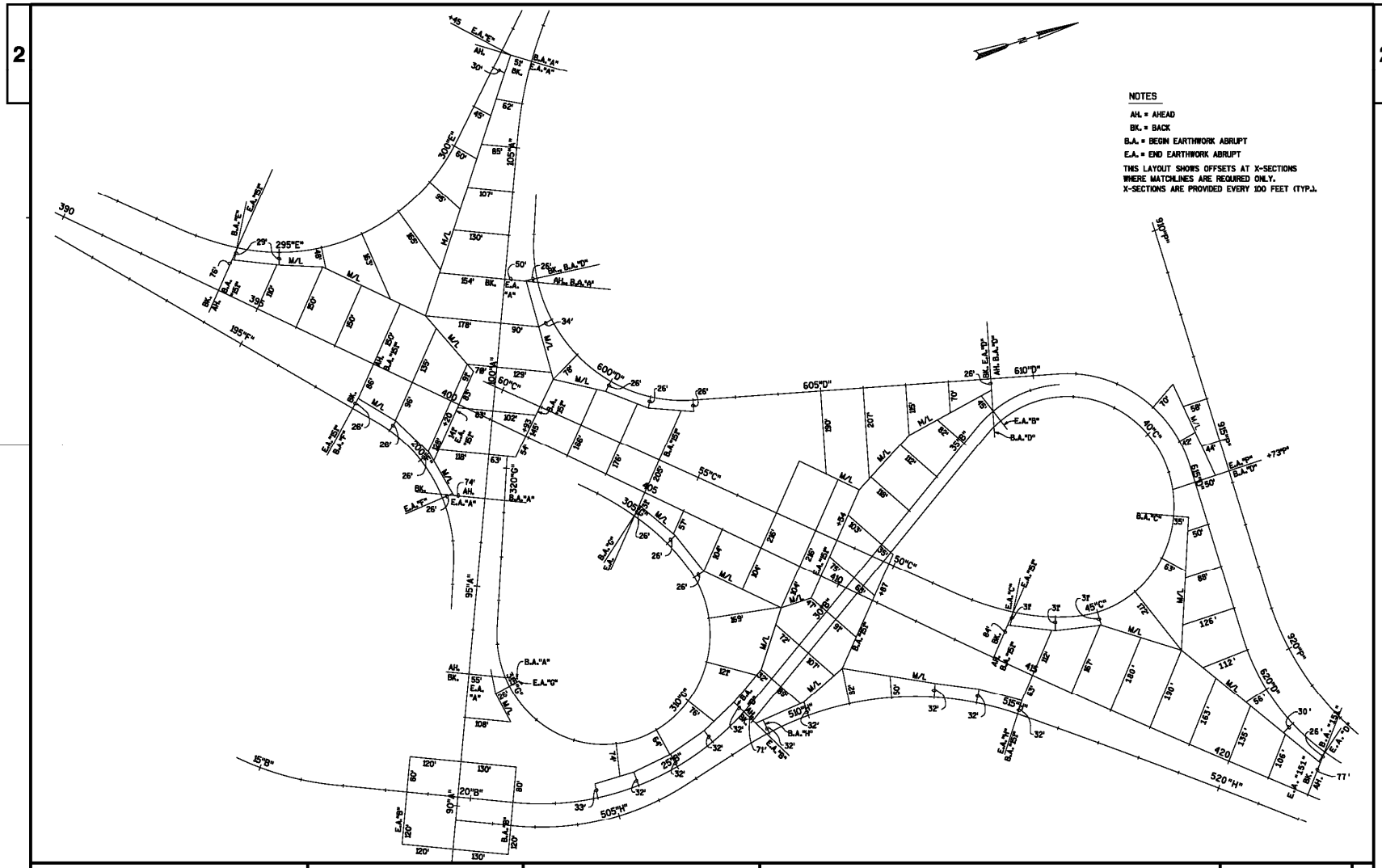

2
2
R/L "A"-LINE
R/L "B"-LINE
R/L "C"-LINE
R/L "D"-LINE
R/L "E"-LINE
R/L "F"-LINE
R/L "G"-LINE
R/L "H"-LINE
R/L "P"-LINE
U.S.H. 151 R/L
PROJECT NO: 1112-07-71
HWY: USH 151
COUNTY: DANE
FINISHED CONTOURS
SHEET NO:
E
FILE NAME : C:\Users\dot11h\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A580.DGN
PLOT DATE : 25-APR-2013 15:17
PLOT BY : $$...plotuser...$$ PLOT NAME :
PLOT SCALE : 206.176119:1.000000
WISDOT/CADDS SHEET 42


2
2
NOTES
AH. = AHEAD
BK. = BACK
B.A. = BEGIN EARTHWORK ABRUPT
E.A. = END EARTHWORK ABRUPT
THIS LAYOUT SHOWS OFFSETS AT X-SECTIONS
WHERE MATCHLINES ARE REQUIRED ONLY.
X-SECTIONS ARE PROVIDED EVERY 100 FEET (TYP.).
PROJECT NO: 1112-07-71
HWY: USH 151
COUNTY: DANE
CROSS SECTION MATCHLINE
SHEET NO:
E
FILE NAME : C:\Users\dotlih\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A590.DGN
PLOT DATE : 25-APR-2013 15:17
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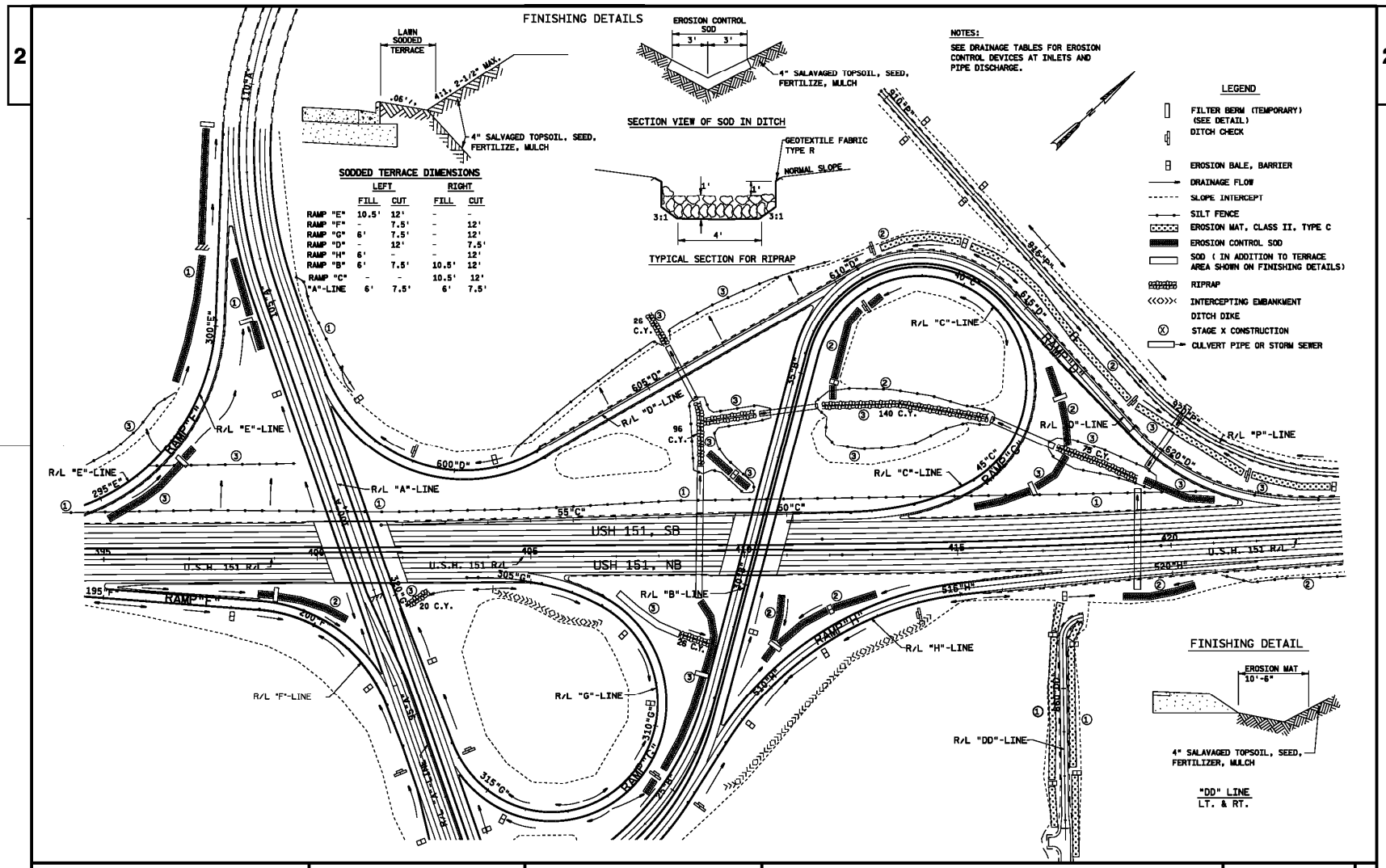
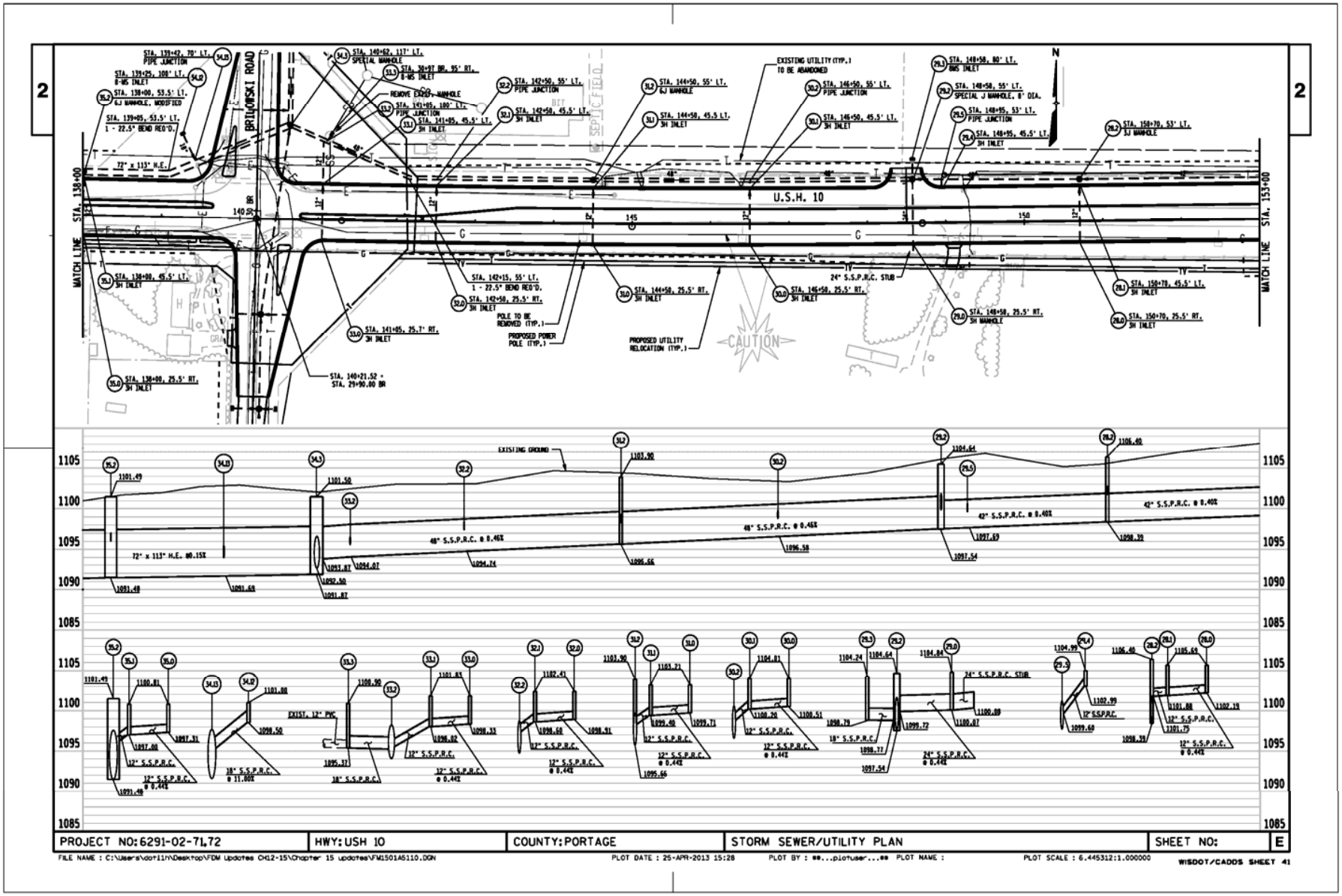
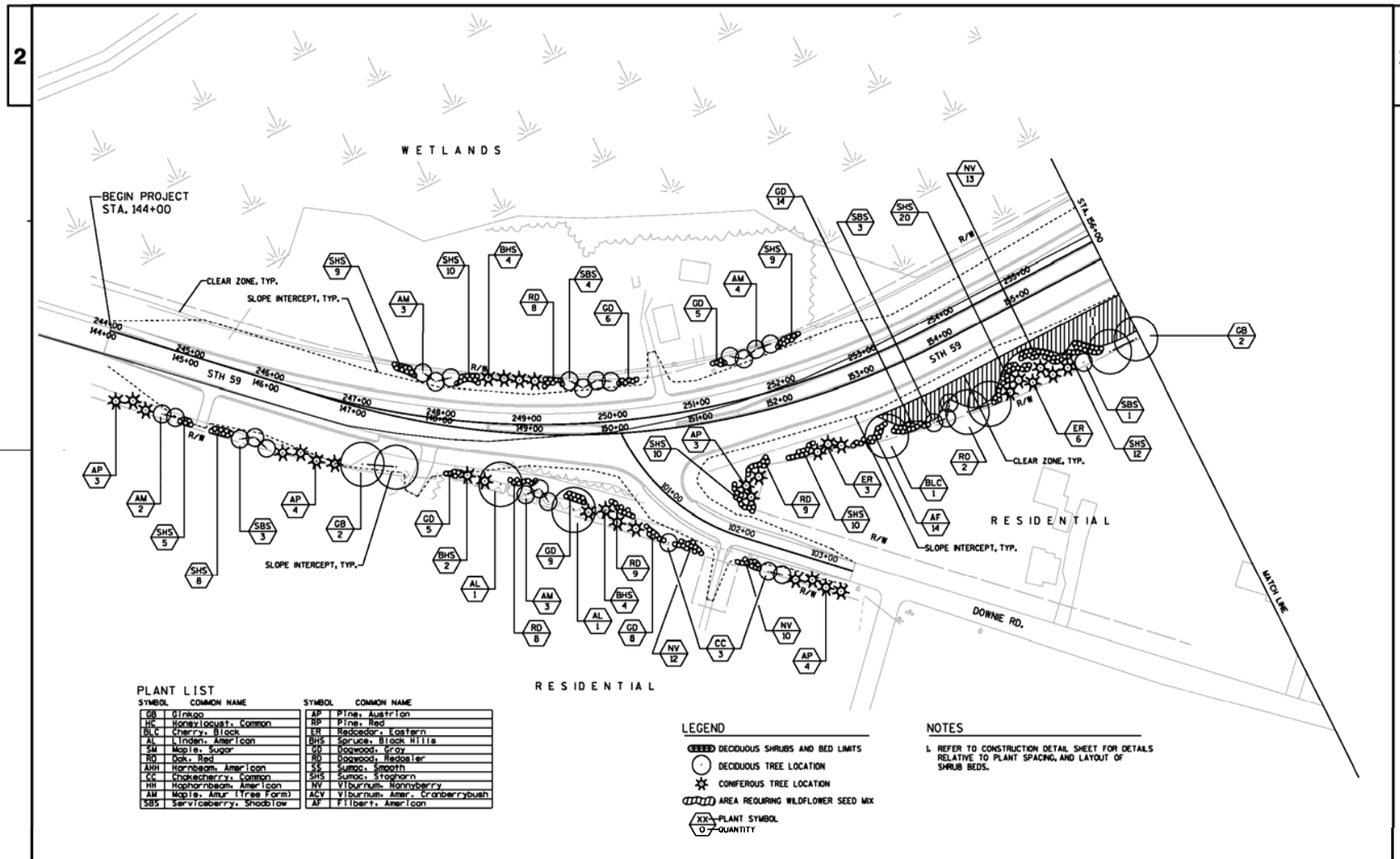
PLOT NAME :
PLOT SCALE : 206.250000:1.000000
WISDOT/CADDS SHEET 42


FINISHING DETAILS
LAWN SODDED TERRACE
4:1
2-1/2" MAX.
.06'/'
4" SALVAGED TOPSOIL, SEED, FERTILIZE, MULCH
EROSION CONTROL SOD
3'
3'
4" SALAVAGED TOPSOIL, SEED, FERTILIZE, MULCH
SECTION VIEW OF SOD IN DITCH
GEOTEXTILE FABRIC TYPE R
NORMAL SLOPE
1'
1'
3:1
3:1
4'
TYPICAL SECTION FOR RIPRAP
NOTES:
SEE DRAINAGE TABLES FOR EROSION CONTROL DEVICES AT INLETS AND PIPE DISCHARGE.
LEGEND
FILTER BERM (TEMPORARY) (SEE DETAIL)
DITCH CHECK
EROSION BALE, BARRIER
DRAINAGE FLOW
SLOPE INTERCEPT
SILT FENCE
EROSION MAT, CLASS II, TYPE C
EROSION CONTROL SOD
SOD (IN ADDITION TO TERRACE AREA SHOWN ON FINISHING DETAILS)
RIPRAP
INTERCEPTING EMBANKMENT
DITCH DIKE
STAGE X CONSTRUCTION
CULVERT PIPE OR STORM SEWER
SODDED TERRACE DIMENSIONS
LEFT RIGHT
FILL CUT FILL CUT
RAMP "E" 10.5' 12' - -
RAMP "F" - 7.5' - 12'
RAMP "G" 6' 7.5' - 12'
RAMP "D" - 12' - 7.5'
RAMP "H" 6' - - 12'
RAMP "B" 6' 7.5' 10.5' 12'
RAMP "C" - - 10.5' 12'
"A"-LINE 6' 7.5' 6' 7.5'
R/L "E"-LINE
R/L "A"-LINE
R/L "D"-LINE
R/L "C"-LINE
R/L "P"-LINE
R/L "B"-LINE
R/L "H"-LINE
R/L "F"-LINE
R/L "G"-LINE
R/L "DD"-LINE
RAMP "E"
RAMP "F"
RAMP "G"
RAMP "D"
RAMP "H"
RAMP "B"
RAMP "C"
RAMP "P"
300"E"
295"E"
600"D"
605"D"
610"D"
615"D"
620"D"
55"C"
60"C"
45"C"
70"C"
305"G"
310"G"
315"G"
310"H"
515"H"
520"H"
320"P"
200"F"
195"F"
195
405
415
420
26 C.Y.
96 C.Y.
140 C.Y.
79 C.Y.
20 C.Y.
USH 151, SB
USH 151, NB
U.S.H. 151 R/L
FINISHING DETAIL
EROSION MAT 10'-6"
4" SALAVAGED TOPSOIL, SEED, FERTILIZER, MULCH
"DD" LINE
LT. & RT.
PROJECT NO: 1112-07-71
HWY: USH 151
COUNTY: DANE
EROSION CONTROL
SHEET NO:
E
FILE NAME : C:\Users\dot11h\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5100.DGN
PLOT DATE : 25-APR-2013 15:15
PLOT BY : ##...plotuser...##
PLOT NAME :
PLOT SCALE : 206.250000:1.000000
WISDOT/CADDS SHEET 42


BRILOWSKI ROAD
U.S.H. 10
MATCH LINE STA. 138+00
MATCH LINE STA. 153+00
EXISTING UTILITY (TYP.) TO BE ABANDONED
REMOVE EXISTING MANHOLE
POLE TO BE REMOVED (TYP.)
PROPOSED POWER POLE (TYP.)
PROPOSED UTILITY RELOCATION (TYP.)
24" S.S.P.R.C. STUB
EXISTING GROUND
PROJECT NO:6291-02-71,72
HWY:USH 10
COUNTY:PORTAGE
STORM SEWER/UTILITY PLAN
SHEET NO:
E
WISDOT/CADDS SHEET 41


2
2
WETLANDS
BEGIN PROJECT
STA. 144+00
CLEAR ZONE, TYP.
SLOPE INTERCEPT, TYP.
STH 59
R/W
RESIDENTIAL
DOWNIE RD.
MATCH LINE
STA. 156+00
PLANT LIST
SYMBOL COMMON NAME
GB Ginkgo
HC Honeylocust, Common
BLC Cherry, Black
AL Linden, American
SM Maple, Sugar
RO Oak, Red
AHH Hornbeam, American
CC Chokecherry, Common
HH Hophornbeam, American
AM Maple, Amur (Tree Form)
SBS Serviceberry, Shadblow
SYMBOL COMMON NAME
AP Pine, Austrian
RP Pine, Red
ER Redcedar, Eastern
BHS Spruce, Black Hills
GD Dogwood, Gray
RD Dogwood, Redosier
SS Sumac, Smooth
SHS Sumac, Staghorn
NV Viburnum, Nannyberry
ACV Viburnum, Amer. Cranberrybush
AF Filbert, American
LEGEND
DECIDUOUS SHRUBS AND BED LIMITS
DECIDUOUS TREE LOCATION
CONIFEROUS TREE LOCATION
AREA REQUIRING WILDFLOWER SEED MIX
XX PLANT SYMBOL
O QUANTITY
NOTES
1. REFER TO CONSTRUCTION DETAIL SHEET FOR DETAILS RELATIVE TO PLANT SPACING, AND LAYOUT OF SHRUB BEDS.
PROJECT NO: 2230-08-71
HWY: STH 59
COUNTY: WAUKESHA
PLANTING
SHEET NO:
E
FILE NAME : C:\Users\dotl1h\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5122.DGN
PLOT DATE : 25-APR-2013 15:29
PLOT BY : ##...plotuser...##
PLOT NAME :
PLOT SCALE : 103.124764:1.000000
WISDOT/CADDS SHEET 42

2

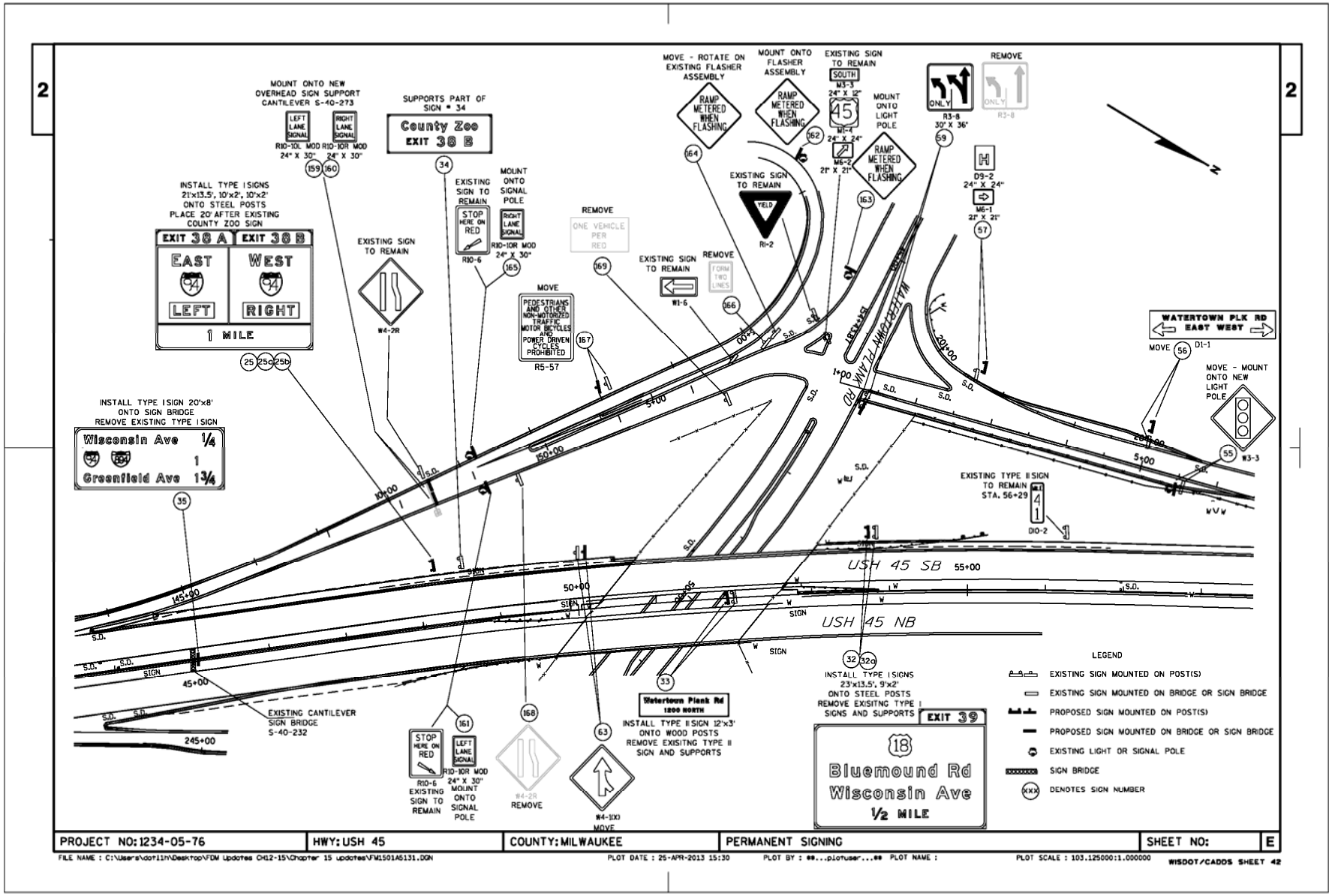
SYM.	COMMON NAME	SCIENTIFIC NAME	TYPE	AVE. MATURE HEIGHT	SIZE (CAL. OR HT.) WHEN PLANTED	ROOT ZONE MODE	MINIMUM SIZE BALL/POT DIAM.	BALL/POT DEPTH	ROOT SPREAD	PLANT HOLE DIAM.	PLANT HOLE DEPTH	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTCT REQ'D	MULCH RING DIAM.	PLT BED DTL
	LARGE DECIDUOUS TREES															
GB	GINKGO	GINKGO BILOBA	1	75'	1¼" CAL.	BR	-	-	20"	32"	14"	BRACE	3	YES	44"	
HC	COMMON HONEYLOCUST	GLEDITSIA TRIACANTAOS	1	50'	1¼" CAL.	BR	-	-	20"	32"	13"	BRACE	3	YES	44"	
AL	LINDEN, AMERICAN	TILIA AMERICANA	1	80'	2" CAL.	B&B	24"	16"	-	36"	16"	GUY	4	YES	48"	
RM	MAPLE, RED	ACER RUBRUM	1	75'	8' HT.	BR	-	-	18"	30"	14"	BRACE	3	YES	42"	
SM	MAPLE, SUGAR	ACER SACCHARUM	1	75'	2" CAL.	B&B	24"	16"	-	36"	16"	GUY	4	YES	48"	
SM	MAPLE, SUGAR	ACERSACCHARUM	1	75'	8' HT.	BR	-	-	18"	30"	14"	BRACE	3	YES	42"	
BO	OAK, BUR	QUERCUS MACROCARPA	1	75'	1½" CAL.	B&B	20"	14"	-	32"	14"	BRACE	3	YES	44"	
	MEDIUM DECIDUOUS TREES															
QA	ASPEN, QUAKING	POPULUS TREMULOIDES	1	60'	8' HT.	BR	-	-	18"	30"	14"	BRACE	3	YES	42"	
PB	BIRCH, PAPER	BETULA PAPYRIFERA	1	50'	1¼" CAL.	B&B	18"	14"	-	30"	14"	BRACE	3	YES	42"	
	SMALL DECIDUOUS TREES															
AF	FILBERT, AMERICAN	CORYLUS AMERICANA	3	20'	4' HT.	BR	-	-	16"	28"	12"	NO	3	NO	40"	
DH	HAWTHORN, DOWNY	CRATAEGUS MOLLIS	3	25'	5' HT.	B&B	16"	12"	-	28"	12"	NO	3	NO	40"	
	LARGE EVERGREEN TREES															
CH	HEMLOCK, CANADIAN	TSUGA CANADENSIS	4	50'	3' HT.	B&B	14"	11"	-	26"	11"	NO	3	NO	38"	
EWP	PINE, EASTERN WHITE	PINUS STROBUS	4	75'	3' HT.	B&B	14"	11"	-	26"	11"	NO	3	NO	38"	
	SMALL EVERGREEN TREES															
AA	ARBORVITAE, AMERICAN	THUJA OCCIDENTALIS	6	30'	3' HT.	*B&B	14"	11"	-	26"	11"	NO	2	NO	38"	
	LARGE & MED. DECID. SHRUBS															
RD	DOGWOOD, REDOSIER	CORNUS SERRICEA	2	8'	3' HT.	BR	-	-	14"	26"	11"	NO	2	NO	BED	C
SS	SUMAC, SMOOTH	RHUS GLABRA	3	15'	2' HT.	BR	-	-	11"	ACCOM. ROOTS		NO	1	NO	NONE	

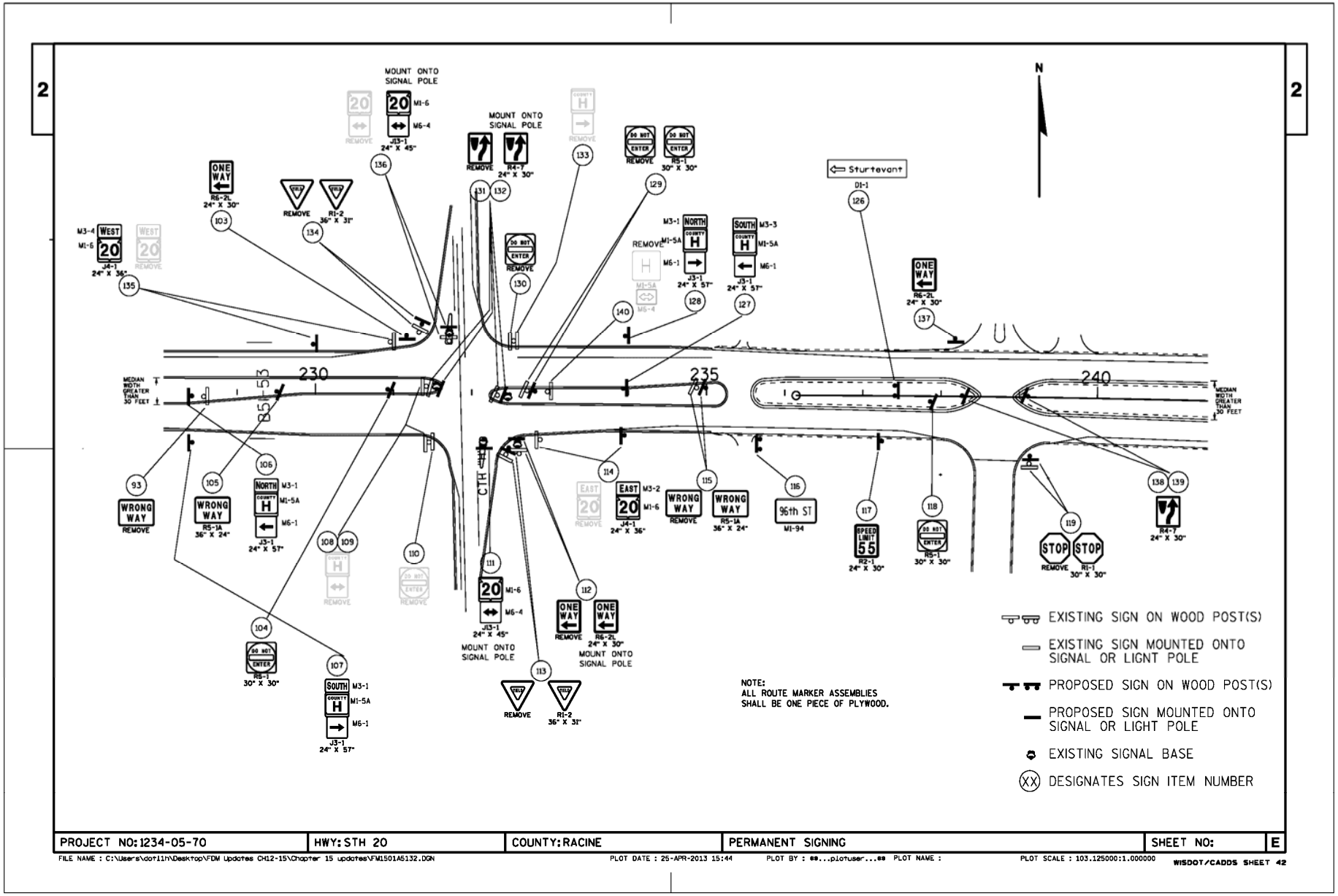
BR: BARE ROOT
B&B: BALLED AND BURLAPPED
CG: CONTAINER GROWN

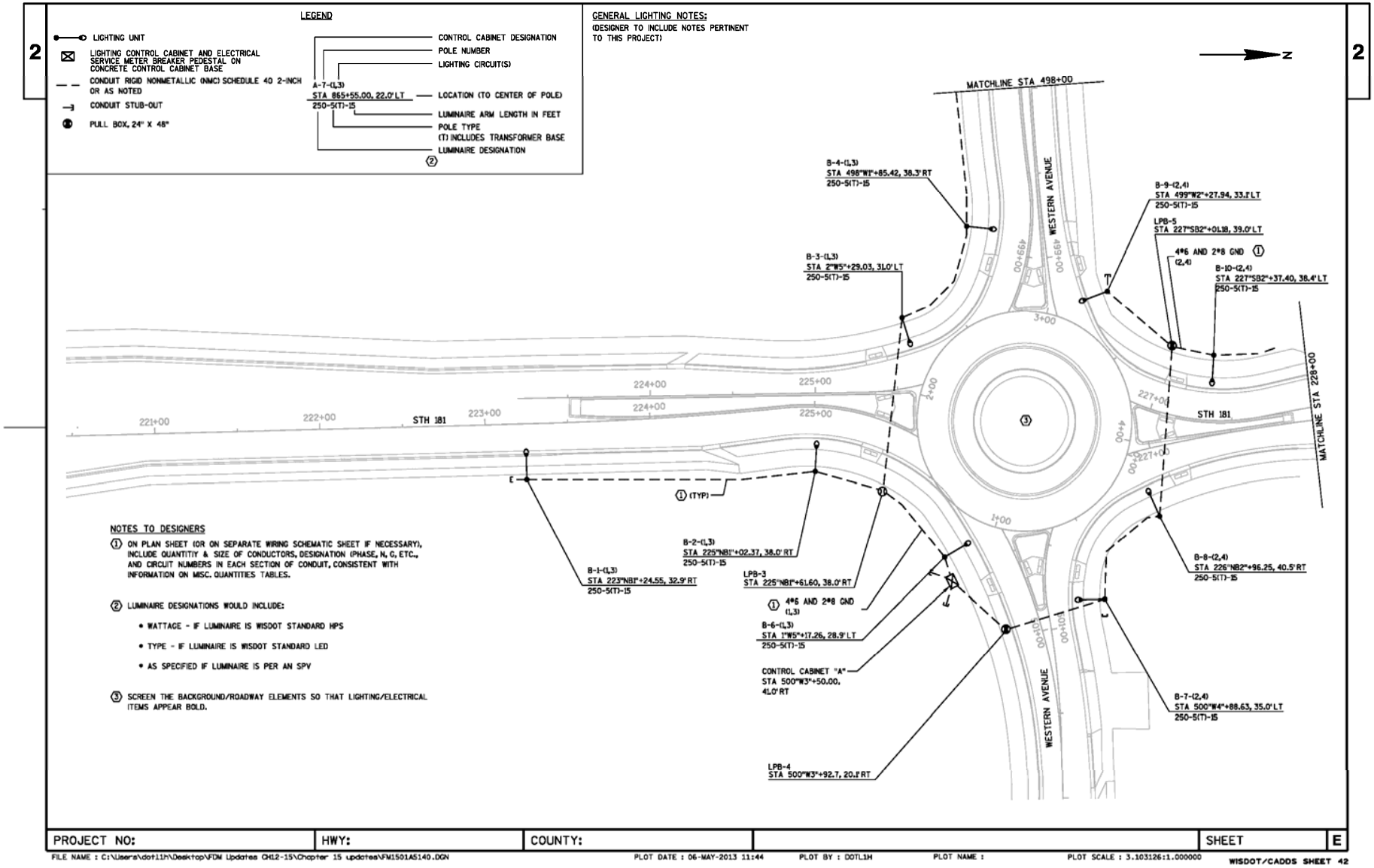
* CONTAINER GROWN (CG) MAY BE SUBSTITUTED

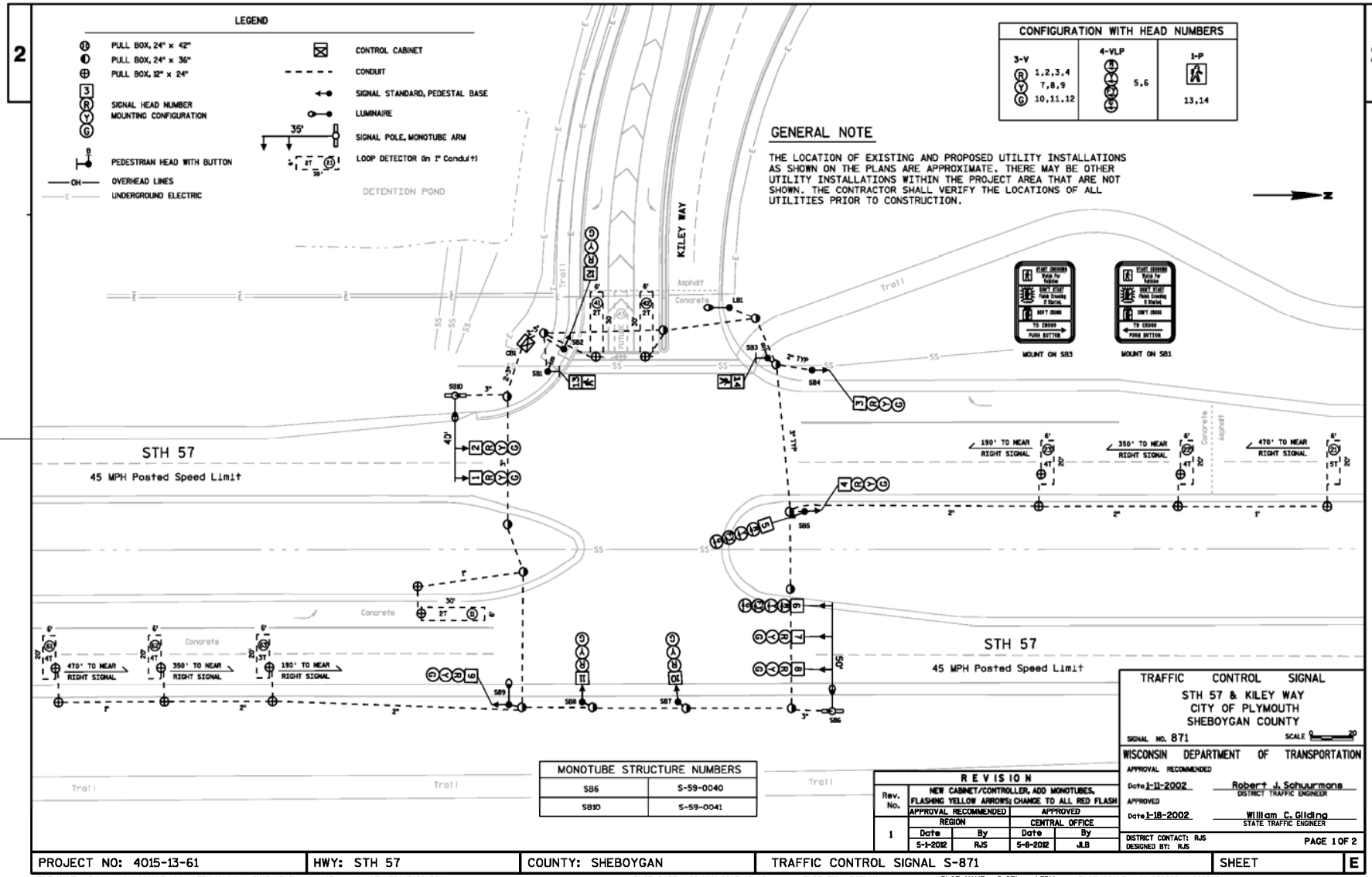
PROJECT NO:2230-08-71	HWY:STH 59	COUNTY:WAUKESHA	PLANT DATA CHART	SHEET NO:	E

FILE NAME : C:\Users\dotlih\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5121.DGN PLOT DATE : 25-APR-2013 15:15 PLOT BY : ##...plotuser...## PLOT NAME : PLOT SCALE : 103.124764:1.000000 WISDOT/CADDS SHEET 42


2
MOUNT ONTO NEW OVERHEAD SIGN SUPPORT CANTILEVER S-40-273
LEFT LANE SIGNAL
RIGHT LANE SIGNAL
R10-10L MOD 24" X 30"
R10-10R MOD 24" X 30"
159
160
SUPPORTS PART OF SIGN # 34
County Zoo
EXIT 38 B
34
INSTALL TYPE I SIGNS 21'x13.5', 10'x2', 10'x2' ONTO STEEL POSTS PLACE 20' AFTER EXISTING COUNTY ZOO SIGN
EXIT 38 A
EXIT 38 B
EAST
WEST
LEFT
RIGHT
1 MILE
25
25a
25b
EXISTING SIGN TO REMAIN
W4-2R
EXISTING SIGN TO REMAIN
STOP HERE ON RED
R10-6
MOUNT ONTO SIGNAL POLE
RIGHT LANE SIGNAL
R10-10R MOD 24" X 30"
165
MOVE
PEDESTRIANS AND OTHER NON-MOTORIZED TRAFFIC MOTOR BICYCLES AND POWER DRIVEN CYCLES PROHIBITED
R5-57
167
REMOVE
ONE VEHICLE PER RED
169
EXISTING SIGN TO REMAIN
W1-6
REMOVE
FORM TWO LINES
166
MOVE - ROTATE ON EXISTING FLASHER ASSEMBLY
RAMP METERED WHEN FLASHING
164
MOUNT ONTO FLASHER ASSEMBLY
RAMP METERED WHEN FLASHING
162
EXISTING SIGN TO REMAIN
YIELD
R1-2
EXISTING SIGN TO REMAIN
SOUTH
M3-3
24" X 12"
45
M1-4
24" X 24"
M6-2
21" X 21"
MOUNT ONTO LIGHT POLE
RAMP METERED WHEN FLASHING
163
ONLY
R3-8
30" X 36"
59
REMOVE
ONLY
R3-8
H
D9-2
24" X 24"
M6-1
21" X 21"
57
WATERTOWN PLK RD
EAST WEST
MOVE
56
D1-1
MOVE - MOUNT ONTO NEW LIGHT POLE
55
W3-3
INSTALL TYPE I SIGN 20'x8' ONTO SIGN BRIDGE REMOVE EXISTING TYPE I SIGN
Wisconsin Ave 1/4
1
Greenfield Ave 1 3/4
35
EXISTING TYPE II SIGN TO REMAIN STA. 56+29
4
1
D10-2
USH 45 SB 55+00
USH 45 NB
EXISTING CANTILEVER SIGN BRIDGE S-40-232
STOP HERE ON RED
R10-6 EXISTING SIGN TO REMAIN
161
LEFT LANE SIGNAL
R10-10R MOD 24" X 30" MOUNT ONTO SIGNAL POLE
168
W4-2R
REMOVE
63
W4-10X
MOVE
33
Waterloo Plank Rd
1200 NORTH
INSTALL TYPE II SIGN 12'x3' ONTO WOOD POSTS REMOVE EXISITNG TYPE II SIGN AND SUPPORTS
32
32a
INSTALL TYPE I SIGNS 23'x13.5', 9'x2' ONTO STEEL POSTS REMOVE EXISITNG TYPE I SIGNS AND SUPPORTS
EXIT 39
18
Bluemound Rd
Wisconsin Ave
1/2 MILE
LEGEND
EXISTING SIGN MOUNTED ON POST(S)
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
PROPOSED SIGN MOUNTED ON POST(S)
PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
EXISTING LIGHT OR SIGNAL POLE
SIGN BRIDGE
DENOTES SIGN NUMBER
PROJECT NO: 1234-05-76
HWY: USH 45
COUNTY: MILWAUKEE
PERMANENT SIGNING
SHEET NO:
E
FILE NAME : C:\Users\dotlln\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5131.DGN
PLOT DATE : 25-APR-2013 15:30
PLOT BY : **...plotuser...**
PLOT NAME :
PLOT SCALE : 103.125000:1.000000
WISDOT/CADDS SHEET 42


2
2
N
MOUNT ONTO SIGNAL POLE
MOUNT ONTO SIGNAL POLE
MOUNT ONTO SIGNAL POLE
MOUNT ONTO SIGNAL POLE
Sturtevant
96th ST
CTH
230
235
240
MEDIAN WIDTH GREATER THAN 30 FEET
EXISTING SIGN ON WOOD POST(S)
EXISTING SIGN MOUNTED ONTO SIGNAL OR LIGNT POLE
PROPOSED SIGN ON WOOD POST(S)
PROPOSED SIGN MOUNTED ONTO SIGNAL OR LIGHT POLE
EXISTING SIGNAL BASE
(XX) DESIGNATES SIGN ITEM NUMBER
NOTE:
ALL ROUTE MARKER ASSEMBLIES SHALL BE ONE PIECE OF PLYWOOD.
PROJECT NO:1234-05-70
HWY:STH 20
COUNTY:RACINE
PERMANENT SIGNING
SHEET NO:
E
FILE NAME : C:\Users\dot11h\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5132.DGN
PLOT DATE : 25-APR-2013 15:44
PLOT BY : ...plotuser...
PLOT NAME :
PLOT SCALE : 103.125000:1.000000
WISDOT/CADDS SHEET 42


2
LEGEND
LIGHTING UNIT
LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH OR AS NOTED
CONDUIT STUB-OUT
PULL BOX, 24" X 48"
A-7-(1,3)
STA 865+55.00, 22.0' LT
250-5(T)-15
CONTROL CABINET DESIGNATION
POLE NUMBER
LIGHTING CIRCUIT(S)
LOCATION (TO CENTER OF POLE)
LUMINAIRE ARM LENGTH IN FEET
POLE TYPE
(T) INCLUDES TRANSFORMER BASE
LUMINAIRE DESIGNATION
GENERAL LIGHTING NOTES:
(DESIGNER TO INCLUDE NOTES PERTINENT TO THIS PROJECT)
N
MATCHLINE STA 498+00
WESTERN AVENUE
B-4-(1,3)
STA 498"W1"+85.42, 38.3' RT
250-5(T)-15
B-3-(1,3)
STA 2"W5"+29.03, 31.0' LT
250-5(T)-15
B-9-(2,4)
STA 499"W2"+27.94, 33.1' LT
250-5(T)-15
LPB-5
STA 227"SB2"+01.18, 39.0' LT
4#6 AND 2#8 GND (1)
(2,4)
B-10-(2,4)
STA 227"SB2"+37.40, 38.4' LT
250-5(T)-15
MATCHLINE STA 228+00
STH 181
221+00
222+00
223+00
224+00
225+00
227+00
(1) (TYP)
B-1-(1,3)
STA 223"NB1"+24.55, 32.9' RT
250-5(T)-15
B-2-(1,3)
STA 225"NB1"+02.37, 38.0' RT
250-5(T)-15
LPB-3
STA 225"NB1"+61.60, 38.0' RT
(1) 4#6 AND 2#8 GND (1,3)
B-6-(1,3)
STA 1"W5"+17.26, 28.9' LT
250-5(T)-15
CONTROL CABINET "A"
STA 500"W3"+50.00, 41.0' RT
LPB-4
STA 500"W3"+92.7, 20.1' RT
B-8-(2,4)
STA 226"NB2"+96.25, 40.5' RT
250-5(T)-15
B-7-(2,4)
STA 500"W4"+88.63, 35.0' LT
250-5(T)-15
NOTES TO DESIGNERS
(1) ON PLAN SHEET (OR ON SEPARATE WIRING SCHEMATIC SHEET IF NECESSARY), INCLUDE QUANTITIY & SIZE OF CONDUCTORS, DESIGNATION (PHASE, N, G, ETC., AND CIRCUIT NUMBERS IN EACH SECTION OF CONDUIT, CONSISTENT WITH INFORMATION ON MISC. QUANTITIES TABLES.
(2) LUMINAIRE DESIGNATIONS WOULD INCLUDE:
• WATTAGE - IF LUMINAIRE IS WISDOT STANDARD HPS
• TYPE - IF LUMINAIRE IS WISDOT STANDARD LED
• AS SPECIFIED IF LUMINAIRE IS PER AN SPV
(3) SCREEN THE BACKGROUND/ROADWAY ELEMENTS SO THAT LIGHTING/ELECTRICAL ITEMS APPEAR BOLD.
PROJECT NO:
HWY:
COUNTY:
SHEET
E
FILE NAME : C:\Users\dotl1h\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5140.DGN
PLOT DATE : 06-MAY-2013 11:44
PLOT BY : DOTL1H
PLOT NAME :
PLOT SCALE : 3.103126:1.000000
WISDOT/CADDS SHEET 42


LEGEND
PULL BOX, 24" x 42"
PULL BOX, 24" x 36"
PULL BOX, 12" x 24"
SIGNAL HEAD NUMBER
MOUNTING CONFIGURATION
PEDESTRIAN HEAD WITH BUTTON
OVERHEAD LINES
UNDERGROUND ELECTRIC
CONTROL CABINET
CONDUIT
SIGNAL STANDARD, PEDESTAL BASE
LUMINAIRE
SIGNAL POLE, MONOTUBE ARM
LOOP DETECTOR (In 1" Conduit)
DETENTION POND
KILEY WAY
STH 57
45 MPH Posted Speed Limit
CONFIGURATION WITH HEAD NUMBERS
3-V
1,2,3,4
7,8,9
10,11,12
4-VLP
5,6
1-P
13,14
GENERAL NOTE
THE LOCATION 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. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.
MOUNT ON SB3
MOUNT ON SB1
190' TO NEAR RIGHT SIGNAL
350' TO NEAR RIGHT SIGNAL
470' TO NEAR RIGHT SIGNAL
MONOTUBE STRUCTURE NUMBERS
SB6 S-59-0040
SB10 S-59-0041
REVISION
Rev. No.
NEW CABINET/CONTROLLER, ADD MONOTUBES, FLASHING YELLOW ARROWS; CHANGE TO ALL RED FLASH
APPROVAL RECOMMENDED
APPROVED
REGION
CENTRAL OFFICE
Date By Date By
1 5-1-2012 RJS 5-8-2012 JLB
TRAFFIC CONTROL SIGNAL
STH 57 & KILEY WAY
CITY OF PLYMOUTH
SHEBOYGAN COUNTY
SIGNAL NO. 871
SCALE 0 20
WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
Date 1-11-2002 Robert J. Schuurmans
DISTRICT TRAFFIC ENGINEER
APPROVED
Date 1-18-2002 William C. Gilding
STATE TRAFFIC ENGINEER
DISTRICT CONTACT: RJS
DESIGNED BY: RJS
PAGE 1 OF 2
PROJECT NO: 4015-13-61
HWY: STH 57
COUNTY: SHEBOYGAN
TRAFFIC CONTROL SIGNAL S-871
SHEET
E
FILE NAME : C:\Users\dotl1h\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5150.DGN
PLOT DATE : 06-MAY-2013 12:10
PLOT BY : DOTL1H
PLOT NAME : S-87LrevLFDM
PLOT SCALE : 41.250000:1.000000
WISDOT/CADDS SHEET 42

2

SEQUENCE OF OPERATION

		HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **				Ø2 R/W	Ø2 CLEAR TO **				Ø3 R/W	Ø3 CLEAR TO **				Ø4 R/W	Ø4 CLEAR TO **				FLASH
RING 1	Ø1	5, 6	G	-	-			-	-	-								-	-	-			-
	Ø2	1, 2, 3, 4	R	R	R			G	Y	R								R	R	R			R
	Ø3																						
	Ø4	10, 11, 12	R	R	R			R	R	R								G	Y	R			R
	Ø5																						
	Ø6	7, 8, 9	R	R	R			R	R	R								R	R	R			R
	Ø7																						
	Ø8																						
OL	'A'	5, 6	-	Y	R			FY	Y	R								R	R	R			R
	Ø2P	13, 14	D	D	D			*	D	D								D	D	D			

		HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **				Ø6 R/W	Ø6 CLEAR TO **				Ø7 R/W	Ø7 CLEAR TO **				Ø8 R/W	Ø8 CLEAR TO **			
RING 2	Ø1	5, 6						-	-	-												
	Ø2	1, 2, 3, 4						R	R	R												
	Ø3																					
	Ø4	10, 11, 12						R	R	R												
	Ø5																					
	Ø6	7, 8, 9						G	Y	R												
	Ø7																					
	Ø8																					
OL	'A'	5, 6						R	R	R												
	Ø2P	13, 14						D	D	D												

NOT USED

OL "A"

BARRIER

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

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

D = DON'T WALK

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	NONE	1, 2, 6
5		
6	1 or 2	4
7		
8		

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6x30	2
21	2	X			2	2				6x20	5
22	3	X			2	2			X	6x20	4
23	4	X			2	2				6x20	4
41	5	X			4	4		X		6x30	2
42	6	X			4	4				6x30	2
43	Future	X			4	4				6x30	Future
61	7	X			6	6				6x20	4
62	8	X			6	6			X	6x20	4
63	9	X			6	6				6x20	3

CONTROLLER LOGIC

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

OVERLAP SPECIAL

	Protected	Permissive
OL "A"	1	2
OL "B"		
OL "C"		
OL "D"		

N

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	X
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM #: SS- -	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	

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	

GENERAL NOTES:

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

REVISION 1

STH 57 & KILEY WAY
CITY OF PLYMOUTH
SHEBOYGAN COUNTY

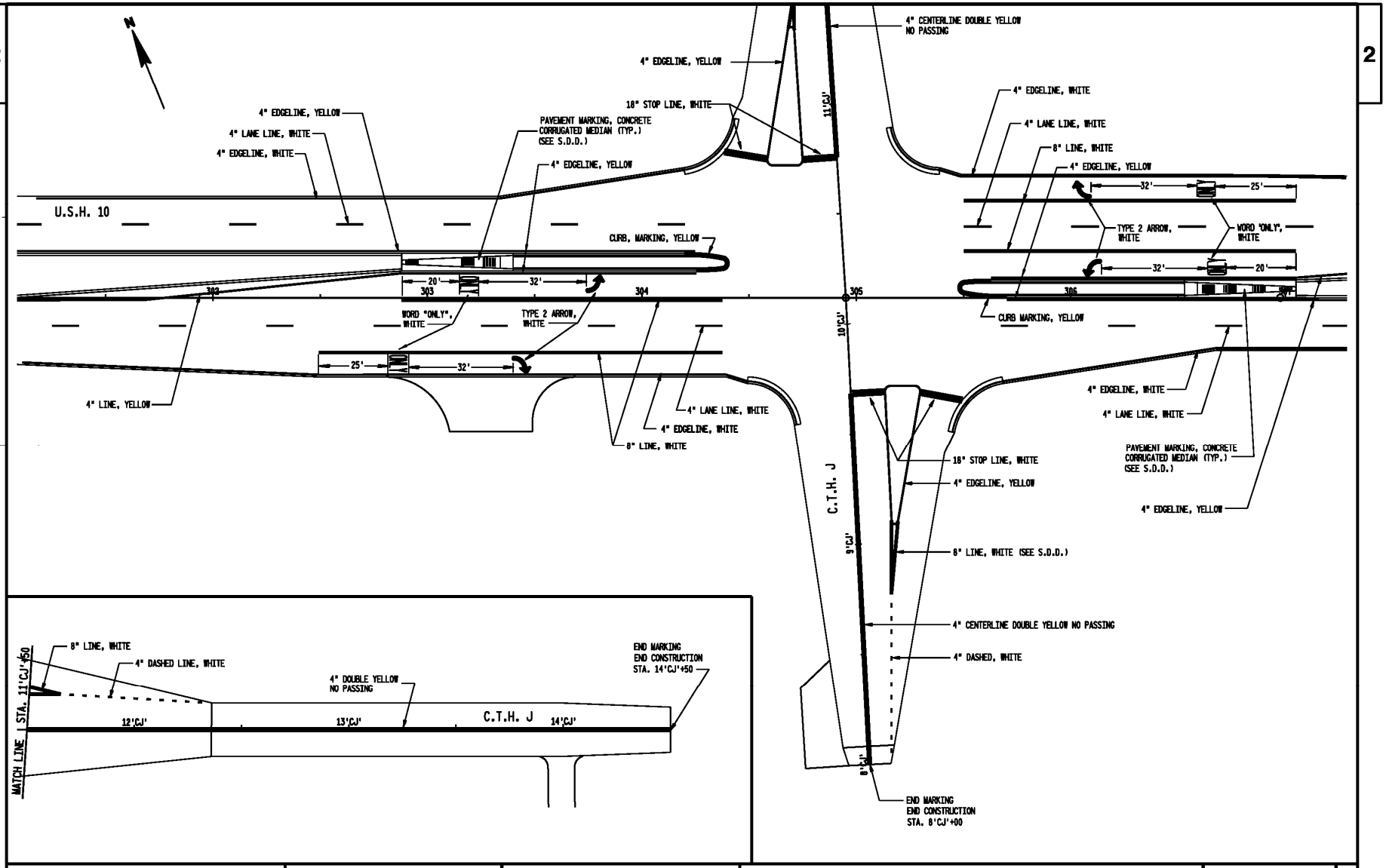
SIGNAL NO. 871

CONTROLLER TYPE: EPAC

DATE: PAGE NO. 2 OF 2

PROJECT NO: 4015-13-61	HWY: STH 57	COUNTY: SHEBOYGAN	SEQUENCE OF OPERATIONS S-871	SHEET	E

FILE NAME : C:\Users\dotl1h\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5150.DGN PLOT DATE : 06-MAY-2013 12:10 PLOT BY : DOTL1H PLOT NAME : S-871.seq.rev1 PLOT SCALE : 39.720449:1.000000 WISDOT/CADDS SHEET 42


2
2
N
U.S.H. 10
4" EDGELINE, YELLOW
4" LANE LINE, WHITE
4" EDGELINE, WHITE
PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN (TYP.) (SEE S.D.D.)
4" EDGELINE, YELLOW
18" STOP LINE, WHITE
4" EDGELINE, YELLOW
CURB, MARKING, YELLOW
20'
32'
303
304
305
306
WORD "ONLY", WHITE
TYPE 2 ARROW, WHITE
25'
32'
4" LINE, YELLOW
4" LANE LINE, WHITE
4" EDGELINE, WHITE
8" LINE, WHITE
4" CENTERLINE DOUBLE YELLOW NO PASSING
11'CJ'
10'CJ'
9'CJ'
8'CJ'
C.T.H. J
4" EDGELINE, WHITE
4" LANE LINE, WHITE
8" LINE, WHITE
4" EDGELINE, YELLOW
32'
25'
TYPE 2 ARROW, WHITE
WORD "ONLY", WHITE
32'
20'
CURB MARKING, YELLOW
4" EDGELINE, WHITE
4" LANE LINE, WHITE
PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN (TYP.) (SEE S.D.D.)
4" EDGELINE, YELLOW
18" STOP LINE, WHITE
4" EDGELINE, YELLOW
8" LINE, WHITE (SEE S.D.D.)
4" CENTERLINE DOUBLE YELLOW NO PASSING
4" DASHED, WHITE
END MARKING END CONSTRUCTION STA. 8'CJ'+00
8" LINE, WHITE
4" DASHED LINE, WHITE
STA. 11'CJ'+50
MATCH LINE
4" DOUBLE YELLOW NO PASSING
END MARKING END CONSTRUCTION STA. 14'CJ'+50
12'CJ'
13'CJ'
C.T.H. J
14'CJ'
PROJECT NO:6291-02-71,72
HWY:USH 10
COUNTY:PORTAGE
PAVEMENT MARKING (EPOXY)
SHEET
E
FILE NAME : C:\Users\dotlih\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5160.DGN
PLOT DATE : 25-APR-2013 15:16
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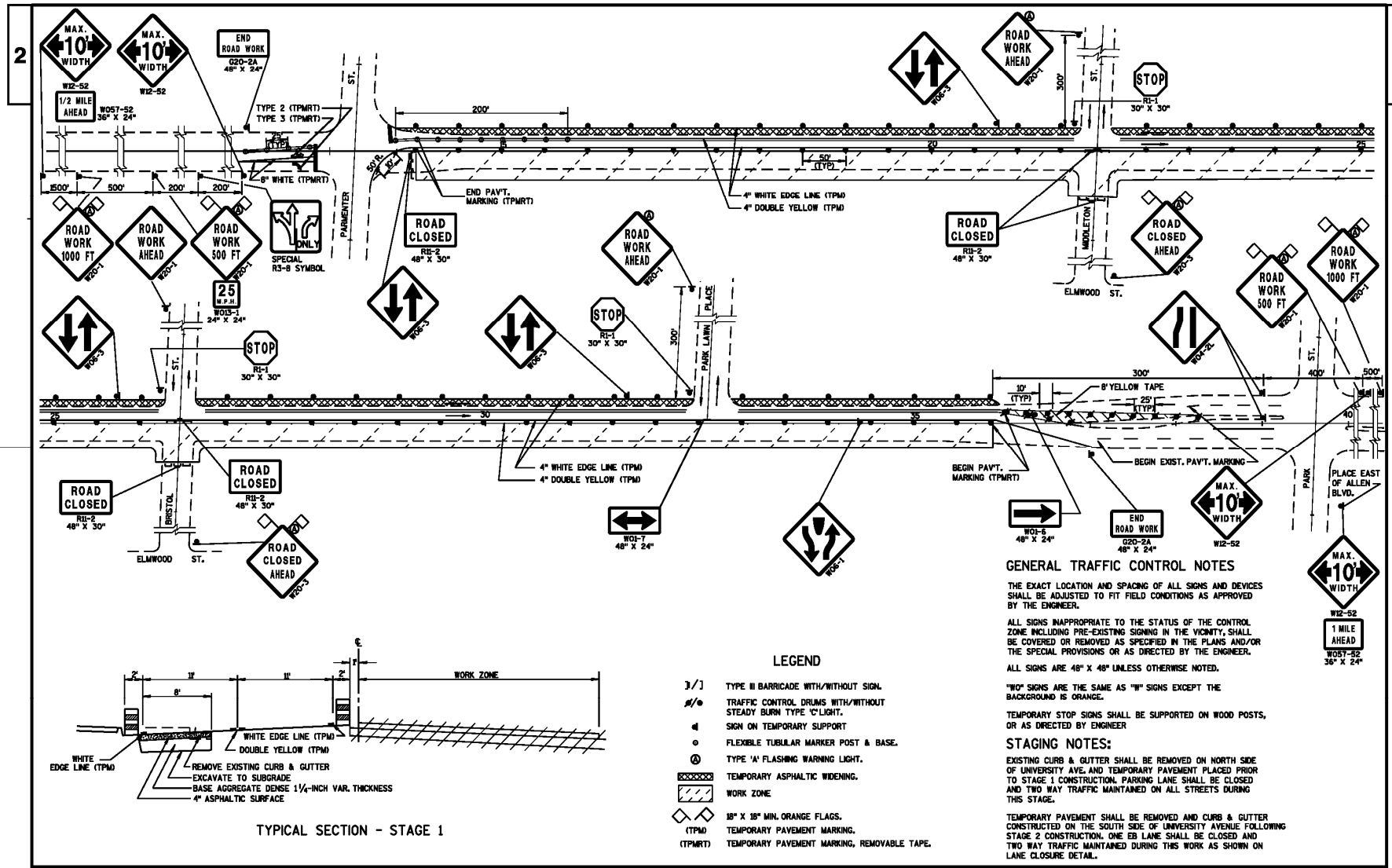
MAX. 10' WIDTH
W12-52
1/2 MILE AHEAD
W057-52 36" X 24"
END ROAD WORK
G20-2A 48" X 24"
TYPE 2 (TPMRT)
TYPE 3 (TPMRT)
8" WHITE (TPMRT)
ROAD WORK 1000 FT
W20-1
ROAD WORK AHEAD
ROAD WORK 500 FT
SPECIAL R3-8 SYMBOL
25 M.P.H.
W013-1 24" X 24"
STOP
R1-1 30" X 30"
ROAD CLOSED
R11-2 48" X 30"
ROAD CLOSED AHEAD
W20-3
END PAV'T. MARKING (TPMRT)
4" WHITE EDGE LINE (TPM)
4" DOUBLE YELLOW (TPM)
PARMENTER ST.
BRISTOL ST.
ELMWOOD ST.
MIDDLETON ST.
PARK LAWN PLACE
PARK ST.
PLACE EAST OF ALLEN BLVD.
8' YELLOW TAPE
BEGIN PAV'T. MARKING (TPMRT)
BEGIN EXIST. PAV'T. MARKING
W01-6 48" X 24"
W01-7 48" X 24"
W04-2L
W06-3
1 MILE AHEAD
W057-52 36" X 24"
200'
300'
400'
500'
50' (TYP)
10' (TYP)
25' (TYP)
WORK ZONE
WHITE EDGE LINE (TPM)
DOUBLE YELLOW (TPM)
REMOVE EXISTING CURB & GUTTER
EXCAVATE TO SUBGRADE
BASE AGGREGATE DENSE 1¼-INCH VAR. THICKNESS
4" ASPHALTIC SURFACE
TYPICAL SECTION - STAGE 1
LEGEND
TYPE III BARRICADE WITH/WITHOUT SIGN.
TRAFFIC CONTROL DRUMS WITH/WITHOUT STEADY BURN TYPE 'C' LIGHT.
SIGN ON TEMPORARY SUPPORT
FLEXIBLE TUBULAR MARKER POST & BASE.
TYPE 'A' FLASHING WARNING LIGHT.
TEMPORARY ASPHALTIC WIDENING.
WORK ZONE
18" X 18" MIN. ORANGE FLAGS.
(TPM) TEMPORARY PAVEMENT MARKING.
(TPMRT) TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE.
GENERAL TRAFFIC CONTROL NOTES
THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
TEMPORARY STOP SIGNS SHALL BE SUPPORTED ON WOOD POSTS, OR AS DIRECTED BY ENGINEER
STAGING NOTES:
EXISTING CURB & GUTTER SHALL BE REMOVED ON NORTH SIDE OF UNIVERSITY AVE. AND TEMPORARY PAVEMENT PLACED PRIOR TO STAGE 1 CONSTRUCTION. PARKING LANE SHALL BE CLOSED AND TWO WAY TRAFFIC MAINTAINED ON ALL STREETS DURING THIS STAGE.
TEMPORARY PAVEMENT SHALL BE REMOVED AND CURB & GUTTER CONSTRUCTED ON THE SOUTH SIDE OF UNIVERSITY AVENUE FOLLOWING STAGE 2 CONSTRUCTION. ONE EB LANE SHALL BE CLOSED AND TWO WAY TRAFFIC MAINTAINED DURING THIS WORK AS SHOWN ON LANE CLOSURE DETAIL.
PROJECT NO: 5993-59-76
HWY: USH 14
COUNTY: DANE
TRAFFIC CONTROL/CONST. STAGING
SHEET NO:
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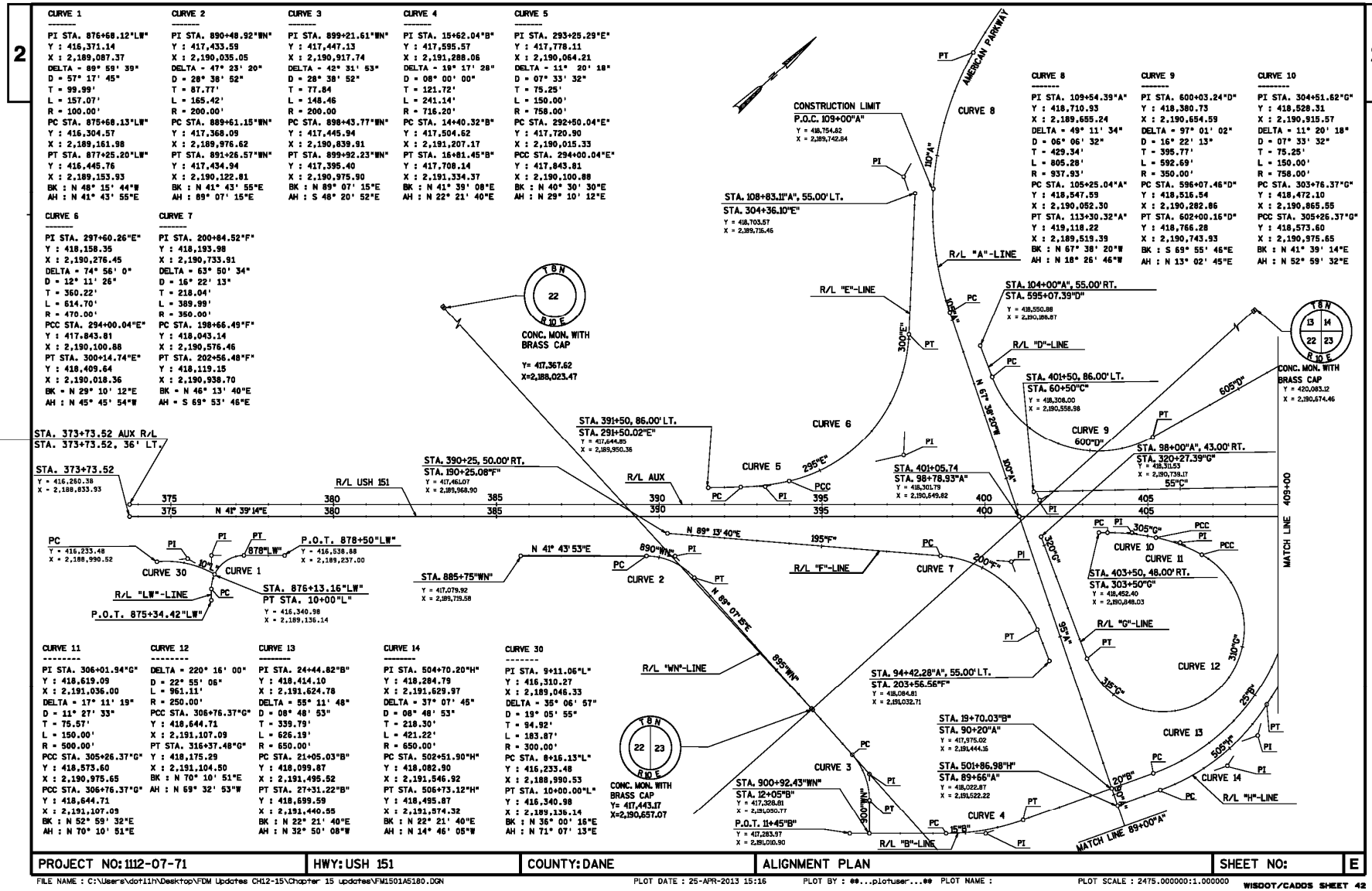
2
CURVE 1
PI STA. 876+68.12"LW"
Y : 416,371.14
X : 2,189,087.37
DELTA - 89° 59' 39"
D = 57° 17' 45"
T = 99.99'
L = 157.07'
R = 100.00'
PC STA. 875+68.13"LW"
Y : 416,304.57
X : 2,189,161.98
PT STA. 877+25.20"LW"
Y : 416,445.76
X : 2,189,153.93
BK : N 48° 15' 44"W
AH : N 41° 43' 55"E
CURVE 2
PI STA. 890+48.92"WN"
Y : 417,433.59
X : 2,190,035.05
DELTA - 47° 23' 20"
D = 28° 38' 52"
T = 87.77'
L = 165.42'
R = 200.00'
PC STA. 889+61.15"WN"
Y : 417,368.09
X : 2,189,976.62
PT STA. 891+26.57"WN"
Y : 417,434.94
X : 2,190,122.81
BK : N 41° 43' 55"E
AH : 89° 07' 15"E
CURVE 3
PI STA. 899+21.61"WN"
Y : 417,447.13
X : 2,190,917.74
DELTA - 42° 31' 53"
D = 28° 38' 52"
T = 77.84
L = 148.46
R = 200.00
PC STA. 898+43.77"WN"
Y : 417,445.94
X : 2,190,839.91
PT STA. 899+92.23"WN"
Y : 417,395.40
X : 2,190,975.90
BK : N 89° 07' 15"E
AH : S 48° 20' 52"E
CURVE 4
PI STA. 15+62.04"B"
Y : 417,595.57
X : 2,191,288.06
DELTA - 19° 17' 28"
D = 08° 00' 00"
T = 121.72'
L = 241.14'
R = 716.20'
PC STA. 14+40.32"B"
Y : 417,504.62
X : 2,191,207.17
PT STA. 16+81.45"B"
Y : 417,708.14
X : 2,191,334.37
BK : N 41° 39' 08"E
AH : N 22° 21' 40"E
CURVE 5
PI STA. 293+25.29"E"
Y : 417,778.11
X : 2,190,064.21
DELTA - 11° 20' 18"
D = 07° 33' 32"
T = 75.25'
L = 150.00'
R = 758.00'
PC STA. 292+50.04"E"
Y : 417,720.90
X : 2,190,015.33
PCC STA. 294+00.04"E"
Y : 417,843.81
X : 2,190,100.88
BK : N 40° 30' 30"E
AH : N 29° 10' 12"E
CURVE 6
PI STA. 297+60.26"E"
Y : 418,158.35
X : 2,190,276.45
DELTA = 74° 56' 0"
D = 12° 11' 26"
T = 360.22'
L = 614.70'
R = 470.00'
PCC STA. 294+00.04"E"
Y : 417,843.81
X : 2,190,100.88
PT STA. 300+14.74"E"
Y : 418,409.64
X : 2,190,018.36
BK = N 29° 10' 12"E
AH : N 45° 45' 54"W
CURVE 7
PI STA. 200+84.52"F"
Y : 418,193.98
X : 2,190,733.91
DELTA = 63° 50' 34"
D = 16° 22' 13"
T = 218.04'
L = 389.99'
R = 350.00'
PC STA. 198+66.49"F"
Y : 418,043.14
X : 2,190,576.46
PT STA. 202+56.48"F"
Y : 418,119.15
X : 2,190,938.70
BK = N 46° 13' 40"E
AH = S 69° 53' 46"E
CURVE 8
PI STA. 109+54.39"A"
Y : 418,710.93
X : 2,189,655.24
DELTA = 49° 11' 34"
D = 06° 06' 32"
T = 429.34'
L = 805.28'
R = 937.93'
PC STA. 105+25.04"A"
Y : 418,547.59
X : 2,190,052.30
PT STA. 113+30.32"A"
Y : 419,118.22
X : 2,189,519.39
BK : N 67° 38' 20"W
AH : N 18° 26' 46"W
CURVE 9
PI STA. 600+03.24"D"
Y : 418,380.73
X : 2,190,654.59
DELTA = 97° 01' 02"
D = 16° 22' 13"
T = 395.77'
L = 592.69'
R = 350.00'
PC STA. 596+07.46"D"
Y : 418,516.54
X : 2,190,282.86
PT STA. 602+00.16"D"
Y : 418,766.28
X : 2,190,743.93
BK : S 69° 55' 46"E
AH : N 13° 02' 45"E
CURVE 10
PI STA. 304+51.62"G"
Y : 418,528.31
X : 2,190,915.57
DELTA = 11° 20' 18"
D = 07° 33' 32"
T = 75.25'
L = 150.00'
R = 758.00'
PC STA. 303+76.37"G"
Y : 418,472.10
X : 2,190,865.55
PCC STA. 305+26.37"G"
Y : 418,573.60
X : 2,190,975.65
BK : N 41° 39' 14"E
AH : N 52° 59' 32"E
CURVE 11
PI STA. 306+01.94"G"
Y : 418,619.09
X : 2,191,036.00
DELTA = 17° 11' 19"
D = 11° 27' 33"
T = 75.57'
L = 150.00'
R = 500.00'
PCC STA. 305+26.37"G"
Y : 418,573.60
X : 2,190,975.65
PCC STA. 306+76.37"G"
Y : 418,644.71
X : 2,191,107.09
BK : N 52° 59' 32"E
AH : N 70° 10' 51"E
CURVE 12
DELTA = 220° 16' 00"
D = 22° 55' 06"
L = 961.11'
R = 250.00'
PCC STA. 306+76.37"G"
Y : 418,644.71
X : 2,191,107.09
PT STA. 316+37.48"G"
Y : 418,175.29
X : 2,191,104.50
BK : N 70° 10' 51"E
AH : N 69° 32' 53"W
CURVE 13
PI STA. 24+44.82"B"
Y : 418,414.10
X : 2,191,624.78
DELTA = 55° 11' 48"
D = 08° 48' 53"
T = 339.79'
L = 626.19'
R = 650.00'
PC STA. 21+05.03"B"
Y : 418,099.87
X : 2,191,495.52
PT STA. 27+31.22"B"
Y : 418,699.59
X : 2,191,440.55
BK : N 22° 21' 40"E
AH : N 32° 50' 08"W
CURVE 14
PI STA. 504+70.20"H"
Y : 418,284.79
X : 2,191,629.97
DELTA = 37° 07' 45"
D = 08° 48' 53"
T = 218.30'
L = 421.22'
R = 650.00'
PC STA. 502+51.90"H"
Y : 418,082.90
X : 2,191,546.92
PT STA. 506+73.12"H"
Y : 418,495.87
X : 2,191,574.32
BK : N 22° 21' 40"E
AH : N 14° 46' 05"W
CURVE 30
PI STA. 9+11.06"L"
Y : 416,310.27
X : 2,189,046.33
DELTA = 35° 06' 57"
D = 19° 05' 55"
T = 94.92'
L = 183.87'
R = 300.00'
PC STA. 8+16.13"L"
Y : 416,233.48
X : 2,188,990.53
PT STA. 10+00.00"L"
Y : 416,340.98
X : 2,189,136.14
BK : N 36° 00' 16"E
AH : N 71° 07' 13"E
AMERICAN PARKWAY
CONSTRUCTION LIMIT
P.O.C. 109+00"A"
Y = 418,754.62
X = 2,189,742.84
STA. 108+83.11"A", 55.00' LT.
STA. 304+36.10"E"
Y = 418,703.57
X = 2,189,715.46
R/L "A"-LINE
R/L "E"-LINE
STA. 104+00"A", 55.00' RT.
STA. 595+07.39"D"
Y = 418,550.88
X = 2,190,188.87
R/L "D"-LINE
STA. 401+50, 86.00' LT.
STA. 60+50"C"
Y = 418,308.00
X = 2,190,558.98
CONC. MON. WITH BRASS CAP
Y = 420,083.12
X = 2,190,874.46
STA. 391+50, 86.00' LT.
STA. 291+50.02"E"
Y = 417,644.85
X = 2,189,950.36
STA. 390+25, 50.00' RT.
STA. 190+25.08"F"
Y = 417,461.07
X = 2,189,968.90
STA. 401+05.74
STA. 98+78.93"A"
Y = 418,301.79
X = 2,190,549.62
STA. 98+00"A", 43.00' RT.
STA. 320+27.39"G"
Y = 418,311.53
X = 2,190,739.17
STA. 373+73.52 AUX R/L
STA. 373+73.52, 36' LT.
STA. 373+73.52
Y = 416,260.38
X = 2,188,833.93
R/L USH 151
R/L AUX
CURVE 5
CURVE 6
CURVE 9
600"D"
CURVE 11
STA. 403+50, 48.00' RT.
STA. 303+50"G"
Y = 418,452.40
X = 2,190,848.03
MATCH LINE 409+00
PC
Y = 416,233.48
X = 2,188,990.52
CURVE 30
CURVE 1
P.O.T. 878+50"LW"
Y = 416,538.88
X = 2,189,237.00
STA. 876+13.16"LW"
PT STA. 10+00"L"
Y = 416,340.98
X = 2,189,136.14
R/L "LW"-LINE
P.O.T. 875+34.42"LW"
STA. 885+75"WN"
Y = 417,079.92
X = 2,189,719.58
N 41° 43' 53"E
CURVE 2
R/L "F"-LINE
CURVE 7
R/L "WN"-LINE
STA. 94+42.28"A", 55.00' LT.
STA. 203+56.56"F"
Y = 418,086.81
X = 2,191,032.71
R/L "G"-LINE
CURVE 12
CURVE 13
CURVE 14
R/L "H"-LINE
STA. 19+70.03"B"
STA. 90+20"A"
Y = 417,975.02
X = 2,191,444.16
STA. 501+86.98"H"
STA. 89+66"A"
Y = 418,022.87
X = 2,191,522.22
CONC. MON. WITH BRASS CAP
Y= 417,443.17
X=2,190,657.07
STA. 900+92.43"WN"
STA. 12+05"B"
Y = 417,328.81
X = 2,191,050.77
P.O.T. 11+45"B"
Y = 417,283.97
X = 2,191,000.90
CURVE 3
CURVE 4
R/L "B"-LINE
MATCH LINE 89+00"A"
PROJECT NO: 1112-07-71
HWY: USH 151
COUNTY: DANE
ALIGNMENT PLAN
SHEET NO:
E
FILE NAME : C:\Users\dot11h\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5180.DGN
PLOT DATE : 25-APR-2013 15:16
PLOT BY : ##...plotuser...##
PLOT NAME :
PLOT SCALE : 2475.000000:1.000000
WISDOT/CADDS SHEET 42

3

3

DATE 17APR13

E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1234-03-73 QUANTITY	1234-03-74 QUANTITY	1234-03-75 QUANTITY
0010	204.0100	REMOVING PAVEMENT	SY	1,300.000		1,300.000	
0020	204.0110	REMOVING ASPHALTIC SURFACE	SY	37,300.000		37,300.000	
0030	204.0115	REMOVING ASPHALTIC SURFACE BUTT JOINTS	SY	50.000		50.000	
0040	204.0125	REMOVING ASPHALTIC SURFACE MILLING	TON	11,710.000		11,710.000	
0050	204.0150	REMOVING CURB & GUTTER	LF	470.000	419.000		51.000
0060	204.0165	REMOVING GUARDRAIL	LF	1,254.000		1,254.000	
0070	204.0190	REMOVING SURFACE DRAINS	EACH	23.000		22.000	1.000
0080	204.9060.S	REMOVING (ITEM DESCRIPTION) 01. REINFORCED CONCRETE APRON ENDWALLS FOR UNDERDRAIN 6-INCH	EACH	3.000	2.000		1.000
0090	204.9060.S	REMOVING (ITEM DESCRIPTION) 02. RAISED PAVEMENT MARKERS	EACH	75.000		75.000	
0100	204.9090.S	REMOVING (ITEM DESCRIPTION) 01. RUMBLE STRIP FILL MATERIAL	LF	4,940.000		4,940.000	
0110	205.0100	EXCAVATION COMMON	CY	5,405.000	489.000	4,700.000	216.000
0120	208.0100	BORROW	CY	438.000	30.000		408.000
0130	211.0200	PREPARE FOUNDATION FOR CONCRETE PAVEMENT (PROJECT) 01. 1234-03-73	LS	1.000	1.000		
0140	211.0200	PREPARE FOUNDATION FOR CONCRETE PAVEMENT (PROJECT) 03. 1234-03-75	LS	1.000			1.000
0150	213.0100	FINISHING ROADWAY (PROJECT) 01. 1234-03-73	EACH	1.000	1.000		
0160	213.0100	FINISHING ROADWAY (PROJECT) 02. 1234-03-74	EACH	1.000		1.000	
0170	213.0100	FINISHING ROADWAY (PROJECT) 03. 1234-03-75	EACH	1.000			1.000
0180	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	1,470.000	500.000		970.000
0190	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	1,980.000	750.000	1,230.000	
0200	405.0100	COLORING CONCRETE RED	CY	50.000	50.000		
0210	415.1090	CONCRETE PAVEMENT HES 9-INCH	SY	40,232.000	1,010.000	38,000.000	1,222.000
0220	415.1410	CONCRETE PAVEMENT APPROACH SLAB HES	SY	1,680.000		1,680.000	
0230	416.0508	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH	SY	217.000	217.000		
0240	416.0610	DRILLED TIE BARS	EACH	1,378.000	357.000	589.000	432.000
0250	416.0620	DRILLED DOWEL BARS	EACH	1,296.000		1,296.000	
0260	416.1010	CONCRETE SURFACE DRAINS	CY	34.000		33.000	1.000
0270	416.1715	CONCRETE PAVEMENT REPAIR SHES	SY	340.000		340.000	
0280	440.4410.S	INCENTIVE IRI RIDE	DOL	8,800.000	1,150.000	7,150.000	500.000
0290	455.0105	ASPHALTIC MATERIAL PG58-28	TON	87.000	6.000	77.000	4.000
0300	455.0605	TACK COAT	GAL	320.000	11.000	300.000	9.000
0310	460.1110	HMA PAVEMENT TYPE E-10	TON	1,442.000	88.000	1,290.000	64.000
0320	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	940.000	60.000	830.000	50.000
0330	465.0400	ASPHALTIC SHOULDER RUMBLE STRIP	LF	615.000		615.000	
0340	601.0409	CONCRETE CURB & GUTTER 30-INCH TYPE A	LF	132.000	132.000		
0350	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	272.000	272.000		
0360	601.0555	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A	LF	54.000			54.000
0370	606.0100	RIPRAP LIGHT	CY	72.000			72.000
0380	611.8115	ADJUSTING INLET COVERS	EACH	22.000		22.000	
0390	612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	30.000	20.000		10.000
0400	612.0806	APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH	EACH	3.000	2.000		1.000
0410	614.0010	BARRIER SYSTEM GRADING SHAPING FINISHING	EACH	31.000		31.000	
0420	614.0400	ADJUSTING STEEL PLATE BEAM GUARD	LF	4,670.000		4,670.000	
0430	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	31.000		31.000	
0440	619.1000	MOBILIZATION	EACH	1.000	0.100	0.800	0.100
0450	624.0100	WATER	MGAL	342.000	12.000	320.000	10.000

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DATE 17APR13

E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1234-03-73 QUANTITY	1234-03-74 QUANTITY	1234-03-75 QUANTITY
0460	625.0500	SALVAGED TOPSOIL	SY	2,925.000	1,526.000	20.000	1,379.000
0470	627.0200	MULCHING	SY	3,094.000	1,465.000	250.000	1,379.000
0480	628.1504	SILT FENCE	LF	3,600.000	900.000	1,600.000	1,100.000
0490	628.1520	SILT FENCE MAINTENANCE	LF	5,200.000	900.000	3,200.000	1,100.000
0500	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	4.000	1.000	2.000	1.000
0510	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	3.000	1.000	1.000	1.000
0520	629.0210	FERTILIZER TYPE B	CWT	7.000	1.000	5.000	1.000
0530	630.0130	SEEDING MIXTURE NO. 30	LB	61.000	26.000	10.000	25.000
0540	631.1000	SOD LAWN	SY	61.000	61.000		
0550	632.0101	TREES (SPECIES, ROOT, SIZE) 01. GINKO SENTRY B&B 3-INCH CAL	EACH	5.000		5.000	
0560	632.0201	SHRUBS (SPECIES, ROOT, SIZE) 01. YEW TAUNTON B&B 24-INCH	EACH	7.000		7.000	
0570	632.0301	VINES (SPECIES, ROOT, SIZE) 01. IVY BOSTON CG 5 GAL	EACH	12.000		12.000	
0580	638.4000	MOVING SMALL SIGN SUPPORTS	EACH	6.000	2.000		4.000
0590	642.5201	FIELD OFFICE TYPE C	EACH	1.000	0.100	0.800	0.100
0600	643.0100	TRAFFIC CONTROL (PROJECT) 01. 1234-03-73	EACH	1.000	1.000		
0610	643.0100	TRAFFIC CONTROL (PROJECT) 02. 1234-03-74	EACH	1.000		1.000	
0620	643.0100	TRAFFIC CONTROL (PROJECT) 03. 1234-03-75	EACH	1.000			1.000
0630	643.0300	TRAFFIC CONTROL DRUMS	DAY	50,137.000	510.000	49,132.000	495.000
0640	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	2,236.000		2,236.000	
0650	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	7,388.000		7,388.000	
0660	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAY	352.000		352.000	
0670	643.0900	TRAFFIC CONTROL SIGNS	DAY	11,345.000	115.000	11,080.000	150.000
0680	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	117.000	100.000	17.000	
0690	643.1000	TRAFFIC CONTROL SIGNS FIXED MESSAGE	SF	220.000		220.000	
0700	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	79.000		79.000	
0710	645.0130	GEOTEXTILE FABRIC TYPE R	SY	250.000			250.000
0720	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	3,872.000	1,470.000	1,100.000	1,302.000
0730	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	1,125.000	145.000	980.000	
0740	646.0406	PAVEMENT MARKING SAME DAY EPOXY 4-INCH	LF	890.000		890.000	
0750	646.0600	REMOVING PAVEMENT MARKINGS	LF	34,944.000	1,296.000	32,665.000	983.000
0760	647.0556	PAVEMENT MARKING STOP LINE EPOXY 12-INCH	LF	71.000		71.000	
0770	649.0300	TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH	LF	50,290.000		50,290.000	
0780	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	44,403.000	463.000	43,940.000	
0790	650.7000	CONSTRUCTION STAKING CONCRETE PAVEMENT	LF	11,550.000	1,165.000	9,225.000	1,160.000
0800	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 1234-03-73	LS	1.000	1.000		
0810	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 02. 1234-03-74	LS	1.000		1.000	
0820	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 03. 1234-03-75	LS	1.000			1.000
0830	655.0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	1,000.000		1,000.000	
0840	690.0150	SAWING ASPHALT	LF	9,905.000	5.000	9,890.000	10.000
0850	690.0250	SAWING CONCRETE	LF	1,335.000	378.000	900.000	57.000
0860	715.0415	INCENTIVE STRENGTH CONCRETE PAVEMENT	DOL	41,920.000	1,010.000	39,680.000	1,230.000
0870	SPV.0030	SPECIAL 01. ABANDONING BEAMGUARD POST HOLES	CWT	145.000		145.000	
0880	SPV.0060	SPECIAL 01. PAVEMENT MARKING OUTFALL MARKERS	EACH	3.000	2.000		1.000
0890	SPV.0090	SPECIAL 01. REMOVE AND RESET STEEL PLATE BEAM GUARD	LF	3,700.000		3,700.000	

DATE 17APR13

E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1234-03-73 QUANTITY	1234-03-74 QUANTITY	1234-03-75 QUANTITY
0900	SPV.0105	SPECIAL 01. CONCRETE PAVEMENT JOINT LAYOUT PROJECT 1234-03-73	LS	1.000	1.000		
0910	SPV.0105	SPECIAL 02. CONCRETE PAVEMENT JOINT LAYOUT PROJECT 1234-03-74	LS	1.000		1.000	
0920	SPV.0105	SPECIAL 03. CONCRETE PAVEMENT JOINT LAYOUT PROJECT 12634-03-75	LS	1.000			1.000
0930	SPV.0180	SPECIAL 01. REINFORCED PANEL OVER CULVERTS	SY	260.000		260.000	
0940	SPV.0180	SPECIAL 02. PREPERATION OF FOUNDATION FOR CONCRETE PAVMENT SPECIAL	SY	39,650.000		39,650.000	
0950	SPV.0195	SPECIAL 01. MAINTENANCE AND REPAIR OF SHOULDERS	TON	100.000		100.000	

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EARTHWORK SUMMARY

DIVISION	FROM/TO STA	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	EBS (3)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	205.0400 MARSH EXC (6)	205.0200 ROCK EXC (7)	REDUCED MARSH IN FILL (8) FACTOR 0.60	REDUCED EBS IN FILL (9) FACTOR 0.80	EXPANDED MARSH BACKFILL (10) FACTOR 1.50	EXPANDED EBS BACKFILL (11) FACTOR 1.30	EXPANDED ROCK (12) FACTOR 1.10	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT:
1	10+00 to 50+00	Mainline stage 1	250,001	7,500	1,111	248,890	15,001	25,000	9,000	6,000	22,501	9,751	27,500	150,001	134,375	114,516			
	15+00	Big Bend	5,000			5,000								5,000	6,250	-1,250			
	36+00	Supreme Court	2,500			2,500								2,000	2,500	0			
	48+00	Ruff Road	3,500			3,500								2,500	3,125	375			
Division 1 Subtotal			261,001	7,500	1,111	259,890	15,001	25,000	9,000	6,000	22,501	9,751	27,500	159,501	146,250	113,641			
2	50+00 to 100+00		125,000	1,000	1,389	123,611	10,000	2,500	6,000	600	15,000	1,500	2,750	275,000	332,063	-208,451			
	65+00	Gas Pass	1,250			1,250								1,000	1,250	0			
	75+00	Home Run	1,500			1,500								1,500	1,875	-375			
	89+00	Feerov Heights	2,750			2,750								5,000	6,250	-3,500			
	93+00	Round Square	750			750								5,500	6,875	-6,125			
Division 2 Subtotal			131,250	1,000	1,389	129,861	10,000	2,500	6,000	600	15,000	1,500	2,750	288,000	348,313	-218,451		104,811	See Note 15
Grand Total			392,251	8,500	2,500	389,751	25,001	27,500	15,000	6,600	37,501	11,251	30,250	447,501	494,562	-104,811	0	104,811	
		Total Common Ex	400,751																

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Notes:
1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) EBS Excavation to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Marsh Excavation - to be backfilled with Select Borrow Material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well. Item number 205.0400
7) Rock Excavation item number 205.0200
8) Reduced Marsh in Fill - Excavated Marsh material is usuable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6
9) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
10) Expanded Marsh Backfill - This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5. Item number 208.1100
11) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
12) Expanded Rock - Factor = 1.1.
13) Expanded Fill. Factor = 1.25
Depending on selections: Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh - Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor
14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
15) Use 113,641 CY of material from Division 1.

PROJECT NO:1000-01-70	HWY:STH 98	COUNTY:PORTAGE	MISCELLANEOUS QUANTITIES	SHEET NO:	E

FILE NAME : C:\Users\dotlih\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5200.DGN PLOT DATE : 25-APR-2013 15:16 PLOT BY : ##...plotuser...## PLOT NAME : PLOT SCALE : 206.250000:1.000000 WISDOT/CADDS SHEET 43

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CLEARING & GRUBBING

STATION - STATION	LOC.	CLEARING 201.0105 STA.	CLEARING 201.0120 I.D.	GRUBBING 201.0205 STA.	GRUBBING 201.0220 I.D.
87+00 - 94+00	LT.	7	-	7	-
102+00 - 103+00	RT.	1	-	1	-
148+00 - 149+00	LT.	1	-	1	-
191+50	LT.	-	20	-	20
TOTALS		9	20	9	20

REMOVING SMALL CULVERT PIPE AND REMOVING OLD STRUCTURE, STATION

STATION	203.0100 EACH	L.S.	DESCRIPTION
26+26 LT	1	-	48" x 68' CSCP
28+15	-	1	60" x 87' RCCP (203.0200.01)
32+50	-	1	3' x 6' x 60' RCBC (203.0200.02)
85+12	-	1	72" x 58' CATTLE PASS (203.0200.03)
101+97 RT	1	-	54" x 42' CSCP
103+17	1	-	36" x 62' CSCP
115+32 LT	1	-	24" x 40' CSCP
125+84	1	-	42"x29" x 66' CSPA
TOTAL	5		

REMOVING PAVEMENT

STATION - STATION	COMMENTS	204.0100 S.Y.
1408+45 A TO 1410+16 A	PAVEMENT REHAB.	455
1412+57 A TO 1414+72 A	PAVEMENT REHAB.	570
B-11-83	SOUTH APPROACH SLAB	79
B-11-83	NORTH APPROACH SLAB	79
TOTAL		1183

REMOVING ASPHALTIC SURFACE

STATION - STATION	LOCATION	204.0110 S.Y.
1330+00 A TO 1370+00 A	EXIST. SHOULDER	13,425
1370+00 A TO 1410+55 A	EXIST. SHOULDER	6,310
GH RAMP	EXIST. RAMP SHOULDERS	1,550
CK RAMP	EXIST. RAMP SHOULDERS	280
TOTAL		21,565

REMOVING CONCRETE SIDEWALK

STATION	LOCATION	204.0155 S.Y.
1400+15	PE LT.	20
1401+68	PE RT.	10
1404+00	PE RT.	30
1406+20	GEORGIA LANE	15
1409+06	SIDEWALK RT.	3
TOTAL		78

BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0120 1¼" TON	305.0110 ¾" TON
53+40 - 60+00	RT.	121	0
53+40 - 60+75	LT.	135	0
60+75 - 77+47	LT. & RT.	781	409
77+47 - 95+00	LT. & RT.	1,285	357
WALL ST. & CANAL ST.	LT. & RT.	79	0
CTH "U" & PASSING LANE	LT. & RT.	412	7
DRIVEWAY & FIELD ENT. (54)	LT. & RT.	220	0
TOTALS		3,033	773

ASPHALTIC ITEMS

LOCATION	315.0200 ASPHALTIC BASE WIDENING TON	490.0205 SALVAGED ASPHALTIC PAVEMENT WILLING TON	ASPHALTIC MATERIAL FOR 455.0105 MATERIAL PG 52-28 TON	ASPHALTIC MATERIAL FOR 455.0605 TACK COAT GAL.	460.1100 HMA PAVEMENT, E-0.3 TON
USH 14					
194+65 - 526+00	5,928	11,644	1,434	6,627	26,887
526+00 - 539+49	190	444	46	241	853
536+49 - 539+59	57	176	17	90	332
539+59 - 554+00	-	934	58	390	1,370
554+00 - 555+75	-	88	7	37	150
SIX CORNERS ROAD	-	206	18	113	433
BRICK SCHOOL ROAD	-	27	2	14	55
WILLOW BEND ROAD	-	35	4	24	95
10 PE'S @ 5 TONS	-	-	3	-	50
TOTALS	6,175	13,554	1,589	7,536	30,225

CONCRETE PAVEMENT, 9-INCH

STATION - STATION	LOCATION	415.0090 S.Y.
1396+06 - 1409+23	MAINLINE	5,620
1409+23 - 1421+00	MAINLINE	4,180
1421+00 - 1433+87	MAINLINE	5,150
1433+87 - 1436+98	MAINLINE	1,490
1396+56 RT.	ALGONA LANE	18
1406+23 RT.	GEORGIA LANE	54
TOTAL		16,512

CONCRETE DRIVEWAY, 9-INCH

STATION	LOCATION	460.0190 S.Y.
1399+34	LT.	22
1400+15	LT.	23
1401+30	LT.	13
1401+68	RT.	5
1401+76	LT.	13
1403+11	LT.	14
TOTAL		90

DRILLED TIE BARS

STATION - STATION	LOCATION	416.0610 EACH
1408+45 A TO 1410+16 A	CENTERLINE	57
1412+57 A TO 1414+72 A	CENTERLINE	72
1436+26 A TO 1437+67 A	CENTERLINE	47
1439+90 A TO 1441+40 A	CENTERLINE	40
TOTAL		216

DRILLED DOWEL BARS

STATION	LOCATION	416.0620 EACH
1408+45 A	S.B. PAVEMENT REHAB.	16
1410+16 A	S.B. PAVEMENT REHAB.	16
1412+57 A	S.B. PAVEMENT REHAB.	16
1414+72 A	S.B. PAVEMENT REHAB.	16
1396+06	N.B. PAVEMENT	16
1436+98	N.B. PAVEMENT	16
TOTAL		96

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PROJECT NO:1000-01-70	HWY:STH 98	COUNTY:PORTAGE	MISCELLANEOUS QUANTITIES	SHEET NO:	E

FILE NAME : C:\Users\dot11h\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5200.DGN PLOT DATE : 25-APR-2013 15:16 PLOT BY : ##...plotuser...## PLOT NAME : PLOT SCALE : 206.250000:1.000000 WISDOT/CADDS SHEET 43

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CULVERT PIPE
CROSS DRAINS

STATION	LOCATION	CULVERT PIPE DIAMETER 520.0118 18" L.F.	520.0124 24" L.F.	520.0130 30" L.F.	APRON ENDWALLS FOR CULVERT PIPE 520.1018 18" EACH	520.1024 24" EACH	520.1030 30" EACH	R.C.C.P. DIAMETER 522.0118 18" L.F.	522.0124 24" L.F.	REINF. CONC. APRON ENDWALLS FOR CULVERT PIPE 522.1018 18" EACH	522.1024 24" EACH	R.C.C.P. CLASS	THICKNESS (INCHES) STEEL	ALUMINUM	* JOINT TIES EACH (IF CONC.)	* JOINT TIES REQ'D EACH
27+38	℄	-	-	100	-	-	2	-	-	-	-	III	0.079	0.075	12	-
37+98	℄	-	-	76	-	-	2	-	-	-	-	III	0.079	0.075	12	-
55+96	℄	-	-	112	-	-	2	-	-	-	-	III	0.079	0.075	12	-
74+29	℄	-	-	-	-	-	-	68	-	2	-	III	-	-	-	4
100+27	℄	-	64	-	-	2	-	-	-		-	III	0.064	0.075	12	-
118+28	℄	-	-	-	-	-	-	74	-	2	-	III	-	-	-	12
138+29	℄	-	-	-	-	-	-	74	-	2	-	III	-	-	-	2
153+28	℄	-	-	-	-	-	-	68	-	2	-	III	-	-	-	2
167+60	℄	-	-	-	-	-	-	-	74	-	2	III	-	-	-	2
177+26	℄	-	-	-	-	-	-	112	-	2	-	III	-	-	-	4
MINOR SIDE ROAD, PRIVATE ENTRANCE AND SLOPE DRAINS																
33+50	SMITH RD. RT.	-	50	-	-	2	-	-	-	-	-	III	0.064	0.075	12	-
39+25	P.E. RT.	40	-	-	2	-	-	-	-	-	-	III	0.064	0.060	12	-
66+35	F.R. #2450 RT.	-	50	-	-	2	-	-	-	-	-	III	0.064	0.075	12	-
68+20	P.E. RT.	36	-	-	2	-	-	-	-	-	-	III	0.064	0.060	12	-
93+62	P.E. RT.	26	-	-	2	-	-	-	-	-	-	III	0.064	0.060	12	-
	TOTALS	102	164	288	6	6	6	396	74	10	2				108	26

* NON-BID ITEM
(FOR INFORMATION ONLY)

CONCRETE CURB & GUTTER, 30-INCH, TYPE A

STATION - STATION	LOCATION	601.0409 L.F.
1396+06 - 1415+06 LT.	MAINLINE	1,900
1396+50 RT.	ALONA LANE	95
1397+00 - 1406+00 RT.	MAINLINE	900
1406+20 RT.	GEORGIA LANE	45
TOTAL		2,940

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CONCRETE SIDEWALK, 4-INCH

STATION	LOCATION	602.0405 S.F.
1401+00	LT.	50
1401+60	RT.	70
1401+52	LT.	40
1402+50	LT.	270
1403+44	LT.	90
1404+00	RT.	70
TOTAL		590

RIPRAP & GEOTEXTILE FABRIC

STATION	LOCATION	606.0100 RIPRAP LIGHT C.Y.	606.0200 RIPRAP MEDIUM C.Y.	645.0130 FABRIC TYPE R S.Y.	645.0120 FABRIC TYPE HR S.Y.
462+00 - 464+50	RT DITCH	250	-	760	-
471+00	LF CULV INL	-	45	-	90
472+30 - 475+40	RT DITCH	580	-	1,760	-
475+30	RT CULV DISC	-	10	-	20
482+60 - 485+20	RT DITCH	550	-	1,670	-
486+40 - 490+90	RT DITCH	920	-	2,790	-
	TOTAL	2,300	55	6,980	110

STORM SEWER

CATEGORY	STRUCTURE NUMBER	LOCATION	CASTING FLAG ELEV.	REINF. CONC. PIPE, CL. III, STORM SEWER 608.0312 12" L.F.	608.0315 15" L.F.	608.0318 18" L.F.	608.0324 24" L.F.	608.0327 27" L.F.	% SLOPE	(1) PIPE TIES REQ'D EACH	522.1027 REIN. CONC. APRON ENDWALLS 27" EACH	611.2004 (2) MH 9FT DIA EACH	611.3230 INLETS 2x3 FT EACH	611.0540 MH COVER TYPE K EACH	611.0624 INLET COVERS TYPE H EACH	DEPTH IN FEET	FROM STRUCT.	TO STRUCT.	INLET ELEV.	DISCH. ELEV.
0010	I-1	71+75 16' LT	76.75	32	-	-	-	-	1.00	-	-	-	1	-	1	3.13	I-1	I-2	73.62	73.30
0010	I-2	71+75, 16' R	76.75	-	312	-	-	-	1.10	-	-	-	1	-	1	3.55	I-2	I-4	73.20	69.77
0010	I-3	74+87, 16' L	74.27	32	-	-	-	-	1.00	-	-	-	1	-	1	2.63	I-3	I-4	71.64	71.32
0010	I-4	74+87, 16' R	74.27	-	-	313	-	-	1.46	-	-	1	-	-	1	4.60	I-4	I-5	69.67	65.10
0010	I-5	78+00.04, 16	69.34	-	-	46	-	-	2.00	-	-	-	1	-	1	4.34	I-5	I-7	65.00	64.08
			SUBTOTALS	64	312	359	0	0		0	0	1	4	0	5					
0020	I-7	78+46, 16' R	69.52	-	-	-	-	62	2.00	12	1	1	-	-	1	8.10	I-7	DISCH.	61.42	60.18
0020	MH-1	78+46, 30' R	70.20	-	-	-	12	-	3.50	-	-	RECONSTRUCT	-	1	-	8.26	MH-1	I-7	61.94	61.52
0020	I-8	79+06, 33' R	69.20	-	-	60	-	-	3.00	-	-	-	1	-	1	3.00	I-6	MH-1	66.20	64.40
			SUBTOTALS	0	0	60	12	62		12	1	1	1	1	2					
			TOTALS	64	312	778	12	62		12	1	2	5	1	7					

(1) NON-BID ITEM (FOR INFORMATION ONLY) (2) CONCRETE FLAT SLAB TOP REQ'D. TO FACILITATE TYPE H INLET COVER

SALVAGED TOPSOIL, MULCHING, FERTILIZING SEEDING & SODDING

STATION - STATION	LOCATION	625.0500 SALVAGED TOPSOIL S.Y.	627.0200 MULCH S.Y.	629.0210 FERT. TYPE B CWT.	630.0110 SEEDING NO.10 LBS.	631.1000 SOD LAWN S.Y.
460+00 - 472+00	LT	2,330	-	1.5	-	2,330
460+00 - 465+00	RT	161	161	0.1	3	-
465+00 - 472+00	RT	928	-	0.6	-	928
465+35 - 471+30	MEDIAN	712	-	0.5	-	712
1+50 H - 2+75 H	LT	111	-	0.1	-	111
1+50 H - 2+75 H	RT	217	173	0.1	3	44
1+60 H	INLET LT	-	-	-	-	14
BJORKSTEN PL.	LT & RT	64	-	0.1	-	64
UNDISTURBED	-	-	-	-	-	50
TOTALS		4,523	334	3.0	6	4,253

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

EROSIONS CONTROL ITEMS

	LOCATION	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2021 EROSION MAT CLASS II, TYPE A SY	631.1100 SOD EROSION CONTROL SY
STAGE 1						
	USH 151, LT	10	4,850	4,850	190	200
	D - LINE, LT	-	320	320	-	-
	E - LINE, LT	3	10	10	550	-
	UNDISTURBED	3	510	510	70	20
STAGE 2						
	USH 151, RT	-	760	1,520	-	100
	A - LINE, LT, RT	9	1,450	2,900	430	-
	B - LINE, LT, RT	6	1,350	2,700	270	-
	UNDISTURBED	2	330	500	70	10
STAGE 3						
	USH 151, LT	-	1,470	2,940	500	350
	A - LINE, RT	3	30	60	-	-
	B - LINE, LT	3	870	1,740	400	200
	UNDISTURBED	2	230	400	90	55
STAGE 4						
	USH 151	-	500	500	-	-
	UNDISTURBED	-	50	50	-	-
	TOTALS	41	12,730	19,000	2,570	935

PROJECT NO:1000-01-70	HWY:STH 98	COUNTY:PORTAGE	MISCELLANEOUS QUANTITIES	SHEET NO:	E

FILE NAME : C:\Users\dotilh\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5200.DGN PLOT DATE : 25-APR-2013 15:16 PLOT BY : ##...plotuser...## PLOT NAME : PLOT SCALE : 206.250000:1.000000 WISDOT/CADDS SHEET 43

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PLANT DATA CHART

SYM.	COMMON NAME	SIZE WHEN PLANTED	ROOT ZONE MODE	SHEET NUMBERS 1 EACH	2 EACH	3 EACH	4 EACH	5 EACH	TOTALS EACH	
	TREES									
GB	GINKGO	1¼" CAL.	BR	7	-	9	3	-	19	632.0101
HC	HONEYLOCUST, COMMON	1¼" CAL.	BR	-	6	-	8	7	21	632.0101
AL	LINDEN, AMERICAN	2" CAL.	B&B	4	9	4		3	20	632.0101
RM	MAPLE, RED	8' HT.	BR	-	3	-	1	-	4	632.0101
SM	MAPLE, SUGAR	2" CAL.	B&B	4	-	-	-	-	4	632.0101
SM	MAPLE, SUGAR	8' HT.	BR	-	8	-	2	6	16	632.0101
BO	OAK, BUR	1½" CAL.	B&B	-	6	5	3	-	14	632.0101
QA	ASPEN, QUAKING	8' HT.	BR	1	-	4	-	6	11	632.0101
PB	BIRCH PAPER	1¼" CAL.	B&B	4	-	-	-	7	11	632.0101
AF	FILBERT, AMERICAN	4' HT.	BR	8	-	-	-	2	10	632.0101
DH	HAWTHORN, DOWNY	6' HT.	B&B	1	-	4	-	-	5	632.0101
CH	HEMLOCK, CANADIAN	3' HT.	B&B	-	7	3	1		11	632.0101
EWP	PINE, EASTERN WHITE	3' HT.	B&B	1	-	3	2	5	11	632.0101
AA	ARBORVITAE, AMERICAN	3' HT.	B&B	10	-	-	20	12	42	632.0101
	SHRUBS									
RD	DOGWOOD, REDOSIER	3' HT.	BR	-	15	-	33	22	70	632.0101
SS	SUMAC, SMOOTH	2' HT.	BR	65	22	-	40	17	144	632.0101

TRAFFIC CONTROL, DRUMS, BARRICADES, WARNING LIGHTS, AND SIGNS

CATEGORY	LOCATION	643.0300 DRUM DAYS	643.0715 WARNING LIGHTS, TYPE C (DRUMS) DAYS	643.0420 BARRICADES, TYPE III DAYS	643.0705 WARNING LIGHTS, TYPE A (BARRICADES) DAYS	643.0900 SIGN DAYS	643.0705 WARNING LIGHTS, TYPE A (SIGNS) DAYS
	STAGE 1						
0010	MOVING OPERATIONS	-	-	-	-	5	-
	NB & SB LINES	-	-	2,400	3,030	257	480
	Y LINE	-	-	1,780	2,375	1,035	445
	SOUTH TEMP. CROSSOVER	-	-	355	475	775	475
	KS & KN LINES	-	-	1,185	1,425	295	-
	SOUTH TEMP. CROSSOVER LT.	445	-	-	-	-	-
	SOUTH TEMP. CROSSOVER RT.	270	60	-	-	-	-
	SUBTOTALS	715	60	5,720	7,305	2,367	1,400
	STAGE 2						
0020	MOVING OPERATIONS	-	-	-	-	51	-
	NB & SB LINES	-	-	-	-	151	-
	DF RAMP LT. & RT.	1,605	-	-	-	-	-
	DN & DS LINES LT. & RT.	2,070	-	-	-	-	-
	SUBTOTALS	3,675	0	0	0	202	0
	TOTALS	4,390	60	5,720	⊙ 7,305	2,569	⊙ 1,400

⊙ PROJECT TOTAL = 8705 DAYS

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PAVEMENT MARKING, EPOXY

CATAGORY	LOCATION STATION - STATION	646.0106 (LANE LINE) 4-INCH L.F.	646.0106 (CENTERLINE) 4-INCH L.F.	646.0106 (EDGE LINE) 4-INCH WHITE L.F.	646.0126 (CHANNELIZING) 8-INCH L.F.	647.0110 RAILROAD CROSSING EACH	647.0566 STOP LINE 18-INCH L.F.	647.0156 ARROWS, TYPE 1 EACH	647.0166 ARROWS, TYPE 2 EACH	647.0356 WORDS EACH	647.0726 (AUXILLARY LANE) DIAGONAL, 12-INCH, WHITE L.F.	647.0726 (AUXILLARY LANE) DIAGONAL, 12-INCH, WHITE L.F.
0010	WB 388+00 - 418+00	1,125	-	2,010	1,070	-	111	-	-	-	419	64
	EB 388+00 - 418+00	1,226	-	1,450	1,040	-	102	-	-	-	218	98
	BROOKFIELD SQUARE	-	-	-	-	-	60	-	-	-	-	-
	MOORLAND ROAD/ PILGRIM PARKWAY	563	-	-	547	-	90	-	-	-	-	54
	EB 418+00 - 448+00	750	-	680	500	-	-	-	-	-	220	-
	SUBTOTAL	3,664		4,140	3,157		363				857	216
0020	WB 418+00 - 448+00	750	-	1,445	620	-	-	-	-	-	225	-
	EB 448+00 - 478+00	750	-	2080	1,200	-	35	-	-	-	414	250
	WB 448+00 - 478+00	750	-	2,180	1,040	-	35	-	-	-	458	135
	SUNNYSLOPE ROAD	-	400	-	230	-	50	2	2	4	-	-
	EB 478+00 - 508+00	730	-	2,285	980	1	72	-	-	-	465	84
	WB 478+00 - 508+00	730	-	2,590	1070	1	60	-	-	-	515	110
	ELM GROVE ROAD	-	300	450	110	-	90	2	2	2	-	-
	SUBTOTAL	3,710	700	11,030	5,250	2	342	4	4	6	2,077	579
	SUBTOTALS	7,374	700	15,170							2,934	795
	TOTALS		23,244		8,407	2	705	4	4	6	3,729	

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

TEMPORARY PAVEMENT MARKING

CATAGORY	LOCATION	DESCRIPTION	649.0100 PAV'T MARKING 4-INCH L.F.	649.0400 4-INCH REMOVABLE TAPE L.F.	649.1200 STOPLINE, REMOVABLE TAPE 18-INCH L.F.
0010	STAGE 1				
	SOUTH TEMP. CROSSOVER	EDGE LINE, WHITE	200	400	-
		EDGE LINE, YELLOW	225	100	-
		NO PASSING (DOUBLE)	625	-	-
	TEMP. CROSSOVER	EDGE LINE, WHITE	450	375	-
		NO PASSING (DOUBLE)	900	350	-
	SUBTOTAL		2,400	1,225	
	STAGE 2				
0020	DF' RAMP	STOP LINE	-	-	60
		EDGE LINE, WHITE	105	-	-
	SUBTOTAL		105		60
	TOTALS		2,505	1,225	60

PROJECT NO:1000-01-70	HWY:STH 98	COUNTY:PORTAGE	MISCELLANEOUS QUANTITIES	SHEET NO:	E

FILE NAME : C:\Users\dotlih\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5200.DGN PLOT DATE : 25-APR-2013 15:20 PLOT BY : ##...plotuser...## PLOT NAME : PLOT SCALE : 206.250000:1.000000 WISDOT/CADDS SHEET 43

TYPE I & II PERMANENT SIGNING

CATEGORY 0010

IH-43 1228-18-60

SIGN NO.	SIGN CODE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X6"X18' [EA]	634.0622 WOOD POSTS 4"X6"X22' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W x H [FT] x [FT]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.3100 REM SIGNS TYPE I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST LBS]	635.0300 SIGN SUPPORTS REPLACING BASE CONN. BOLTS [EA]
1	M1-94(MOD)(5)	II	BENDER RD 6200 NORTH	84 x 36	21.000	--	--	1	2	--	2	--	--	--	-- x --	--	--	--	--	--	--	--
2	W5-52R(3)	II	--	18 x 54	--	--	6.750	1	--	1	--	--	--	4' MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--
3	E1-1A	I	SILVER SPRING DR 1/2 MILE	-- x --	--		--	--	--	--	--	--	--	REUSE STEEL POSTS	24 x 7	168.000	1	--	--	--	--	2
3A	E1-5P	I	EXIT 78	-- x --	--	--	--	--	--	--	--	--	#3	--	9 x 2.5	22.500	--	--	--	--	--	--
4	W5-52L(3)	II	--	18 x 54	--	--	6.750	1	1	1	--	--	--	4' MOUNTING HEIGHT	-- x --	--	--	--	--	--	--	--
5	R2-1(5)	II	55 MPH	48 x 60	20.000	--	--	1	1	--	1	--	--	--	-- x --	--	--	--	--	--	--	--
6	J4-1(3) M3-1 M1-1	II	-- -- IH 43	36 x 54 36 x 18 36 x 36	13.500	--	--	1	--	--	--	--	--	MOUNT ON LIGHT POLE	-- x --	--	--	--	--	--	--	--
7	D12-2B(5)	II	--	114 x 48	38.000	--	--	1	2	--	2	--	--	--	-- x --	--	--	--	--	--	--	--
8	E1-1A	I	[PP] GOOD HOPE RD 1/2 MILE	-- x --	--	--	--	--	--	--	--	--	--	REUSE STUBS	21 x 10	210.000	1	B	--	--	700	2
8A	E1-5P	I	EXIT 80	-- x --	--	--	--	--	--	--	--	--	#8	--	9 x 2.5	22.500	--	--	--	--	--	--
9	--	I	OVERSIZE LOADS RESTRICTED BEYOND NEXT EXIT	-- x --	--	--	--	--	--	--	--	--	--	NEW STEEL POSTS	16 x 5.5	88.000	1	A	1.2	68	600	--
10	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--
11	D10-2	II	MILE 80	-- x --	--	--	--	1	1	--	--	--	--	--	-- x --	--	--	--	--	--	--	--
12	W5-54(2M)	II	--	18 x 18	--	--	2.250	--	--	--	--	--	--	MOUNT ON EXISTING POST	-- x --	--	--	--	--	--	--	--
13	W5-54(2M)	II	--	18 x 18	--	--	2.250	--	--	--	--	--	--	MOUNT ON EXISTING POST	-- x --	--	--	--	--	--	--	--
14	R5-1A(3)	II	--	42 x 30	8.750	--	--	1	1	1	--	--	--	--	-- x --	--	--	--	--	--	--	--
15	R5-1A(3)	II	--	42 x 30	8.750	--	--	1	--	--	--	--	--	MOUNT ON BACK OF EXISTING SIGN	-- x --	--	--	--	--	--	--	--
16	W3-3(3)	II	--	36 x 36	--	--	9.000	1	--	--	--	--	--	MOUNT ON LIGHT POLE	-- x --	--	--	--	--	--	--	--
17	E5-1A(5)	II	EXIT 80	72 x 60	30.000	--	--	1	2	--	2	--	--	--	-- x --	--	--	--	--	--	--	--
18	W5-54(2M)	II	--	18 x 18	--	--	2.250	--	--	--	--	--	#17	--	-- x --	--	--	--	--	--	--	--
19	W5-54(2M)	II	--	18 x 18	--	--	2.250	--	--	--	--	--	#17	--	-- x --	--	--	--	--	--	--	--
20	E4-1A	I	[PP] GOOD HOPE RD [A]	-- x --	--	--	--	--	--	--	--	--	--	REUSE STUBS	24 x 7.5	180.000	1	B	--	--	700	2
20A	E1-5P	I	EXIT 80	-- x --	--	--	--	--	--	--	--	--	#20	--	9 x 2.5	22.500	--	--	--	--	--	--
21	--	--	--	-- x --	--	--	--	1	1	--	--	--	--	--	-- x --	--	--	--	--	--	--	--
22	D10-2	II	MILE 81	-- x --	--	--	--	1	1	--	--	--	--	--	-- x --	--	--	--	--	--	--	--
23	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--
24	R3-4B(5)	II	--	36 x 48	12.000	--	--	1	1	1	--	--	--	--	-- x --	--	--	--	--	--	--	--
25	R3-4B(5)	II	--	36 x 48	12.000	--	--	1	--	--	--	--	--	--	-- x --	--	--	--	--	--	--	--
26	E1-1A	I	[PP] GOOD HOPE RD 1 MILE	-- x --	--	--	--	--	--	--	--	--	--	REUSE STUBS	21 x 10	210.000	1	B	--	--	700	2
26A	E1-5P	I	EXIT 80	-- x --	--	--	--	--	--	--	--	--	#26	--	9 x 2.5	22.500	--	--	--	--	--	--
27	I2-3A(5)	II	VILLAGE OF FOX POINT	78 x 30	16.250	--	--	1	2	--	2	--	--	--	-- x --	--	--	--	--	--	--	--
28	--	I	[BUS] [CAR] PARK & RIDE [CRASH LOGO] CRASH INVESTIGATION SITE EXIT 82B	-- x --	--	--	--	--	--	--	--	--	--	REUSE STEEL POSTS	14 x 13	182.000	1	--	--	--	--	2

SHEET 1 OF 10

PROJECT NO: 1228-18-60	HWY: I-43	COUNTY: MILWAUKEE & OZAUKEE	PERMANENT SIGNING QUANTITIES	SHEET:	E

FILE NAME : N:\SPO\Operations\Traffic_Ops\Signing\Miscellaneous Quantities\12281860_IH-43\030501_mq.pptx PLOT DATE : 27-AUG-2013 PLOT BY : DOTKLM PLOT NAME : _____ PLOT SCALE : 1:1

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PERMANENT SIGNS TYPE II AND SIGN SUPPORTS (PROJECT 4337-11-72)

SIGN NO.	STATION	SIGN CODE	DESCRIPTION	SIGN DIMENSIONS W X H IN X IN	ASSEMBLY NO.	ASSEMBLY WIDTH IN	ASSEMBLY HEIGHT IN	634.0614 14 FT EACH	634.0616 16 FT EACH	634.0618 18 FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SPV.060.17 PED CROSSING (W11-2) SOLAR FLASHING LED EACH	REMARKS
PROJECT 4337-11-72	CATEGORY 0010													
101	14+01 , LT	W1-2L	LEFT CURVE	30 X 30					1			6.25		
102	15+24 , LT	R2-1	SPEED LIMIT XX MPH	24 X 30					1		5.00			35 MPH
103	15+78 , RT	R2-1	SPEED LIMIT XX MPH	24 X 30					1		5.00			35 MPH
104	18+32 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24					1		3.00			
105	22+18 , RT	W3-5	SPEED REDUCTION AHEAD XX MPH	36 X 36					1			9.00		25 MPH
106	24+71 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24					1		3.00			
107	27+78 , RT	R2-1	SPEED LIMIT XX MPH	24 X 30					1		5.00			25 MPH
108	27+75 , LT	R2-1	SPEED LIMIT XX MPH	24 X 30					1		5.00			35 MPH
109	28+96 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24					1		3.00			
110	29+55 , LT	W1-7	DOUBLE NIGHT ARROW	48 X 24					1			8.00		
111	29+84 , RT	R1-1	STOP	30 X 30					1		5.18			18TH ST
112	30+16 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24					1		3.00			
113	30+79 , LT	W1-2L	LEFT CURVE	30 X 30					1			6.25		
114	33+70 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24				1			3.00			
115	35+35 , LT	M3-4	WEST	24 X 12	J1-1	24.00	36.00		1		2.00			
		M1-6	STATE ROUTE MARKER	24 X 24							4.00			STH 310
116	35+52 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24				1			3.00			
117	36+89 , RT	R1-1	STOP	30 X 30					1		5.18			17TH ST
118	37+24 , RT	M3-2	EAST	24 X 12	J1-1	24.00	36.00		1		2.00			
		M1-6	STATE ROUTE MARKER	24 X 24							4.00			STH 310
119	37+24 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24							3.00			INSTALL BELOW SIGN 118
201	37+53 , LT	R2-1	SPEED LIMIT XX MPH	24 X 30					1		5.00			25 MPH
202	38+59 , RT	R2-1	SPEED LIMIT XX MPH	24 X 30					1		5.00			25 MPH
203	40+66 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24				1			3.00			
204	41+61 , RT	R1-1	STOP	30 X 30					1		5.18			16TH ST
205	42+03 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24				1			3.00			
206	44+14 , RT	M3-2	EAST	24 X 12	J2-1	24.00	57.00			1	2.00			
		M1-6	STATE ROUTE MARKER	24 X 24							4.00			STH 310
		M5-1L	ADVANCE ARROW LT TURN	21 X 21							3.06			
207	44+14 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24							3.00			INSTALL BELOW SIGN 206
208	46+63 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24				1			3.00			
209	47+00 , LT	M3-4	WEST	24 X 12	J1-1	24.00	36.00		1		2.00			
		M1-6	STATE ROUTE MARKER	24 X 24							4.00			STH 310
210	48+37 , RT	M3-2	EAST	24 X 12	J2-1	24.00	57.00				2.00			
		M1-6	STATE ROUTE MARKER	24 X 24							4.00			STH 310
		M6-1	ARROW RT OR LT	21 X 21							3.06			LT ARROW
211	48+37 , RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24							3.00			INSTALL ON OVERHEAD SIGN SUPPORT FOR SIGN 210
212	48+11 , LT	R2-1	SPEED LIMIT XX MPH	24 X 30					1		5.00			25 MPH
						PROJECT TOTALS		5	21	1	122.66	29.50	0	

NOTE: PERMANENT SIGNS QUANTITIES FOR PROJECT 4337-11-71 CAN BE FOUND ON THE NEXT SHEET

3

PROJECT NO: 4337-11-71/72	HWY: STH 310	COUNTY: MANITOWOC	MISCELLANEOUS QUANTITIES	SHEET	E	3._
FILE NAME:	ORIGINATOR: OMNNI ASSOCIATES	ORIG. DATE:	REV. DATE:	PRINT DATE: June 14, 2013		

3

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

CONDUIT LOOP DETECTOR
LOOP DETECTOR LEAD IN CABLE AND LOOP DETECTOR WIRE

LOOP NO.	652.0800 CONDUIT LOOP DET L.F.	655.0700 LEAD IN CABLE L.F.	655.0800 LOOP WIRE L.F.
1A	48	183	116
1B	51	160	118
1C	51	160	119
2A	51	352	155
2B	51	18	115
2C	63	18	127
2D	75	18	137
TOTALS	390	909	887

TRAFFIC SIGNAL POLES, BASES, & MAST ARMS

SIGNAL BASE NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	654.0215 CONC. CONTROL CABINET BASES, TYPE 9 EACH	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES STANDARD, 11½INCH BOLT CIRCLE EACH	657.1395 INSTALL TYPE 9 EACH	657.0420 TRAFFIC SIGNAL STANDARDS, ALUM 13 FT. EACH	657.0425 TRAFFIC SIGNAL STANDARDS, ALUM 15 FT. EACH	657.1520 INSTALL MONOTUBE MONOTUBE ARMS, 20 FT. EACH	657.1525 INSTALL MONOTUBE MONOTUBE ARMS, 25 FT. EACH
CB	527+56	63' LT.	-	-	1	-	-	-	-	-	-	-
SB1	527+64	63' LT.	1	-	-	1	-	-	1	-	-	-
SB2	527+54	9' LT.	1	-	-	1	-	-	-	1	-	-
SB3	527+64	43' RT.	-	1	-	-	1	1	-	-	-	1
SB4	527+17	43' RT.	-	1	-	-	1	1	-	-	1	-
SB5	526+70	43' RT.	1	-	-	1	-	-	1	-	-	-
		TOTALS	3	2	1	3	2	2	2	1	1	1

3

TRAFFIC SIGNAL CABLE, NO. 12

LOCATION	(655.0225) NO. OF CONDUCTORS 5 L.F.	(655.0235) 7 L.F.	(655.0245) 9 L.F.	(655.0255) 12 L.F.	(655.0275) 19 L.F.
SB5 - PB5	-	15	-	-	-
PB13 - CB1	-	-	-	-	-
SB 1 - PB1	-	14	-	-	-
PB3 - PB1	-	-	-	-	47
SB2 - PB3	-	-	27	-	-
PB4 - PB3	-	-	-	47	-
SB3 - PB4	-	-	14	-	-
SB4 - PB4	63	-	-	-	-
TOTALS	63	29	41	47	47

LIGHTING BASES, POLES, LUMINAIRE ARMS & LUMINAIRES

CATEGORY	LABEL	LOCATION	654.0107 CONCRETE BASE, TYPE 7 EACH	657.0210 TRANSFORMER BASES, BREAKAWAY, 15 - 17 INCH BOLT CIRCLE EACH	(657.0330) POLES, TYPE 7 (40 FOOT) EACH	657.0615 LUMINAIRE ARMS, SINGLE MEMBER, 4 1/2-INCH CLAMP, 8-FOOT EACH	657.0705 LUMINAIRE ARMS, TRUSS TYPE, 4 1/2-INCH CLAMP, 10-FOOT EACH	* 659.0115 LUMINAIRES, UTILITY, 150W (120V) EACH	** 659.0135 LUMINAIRES, UTILITY, 400W (120V) EACH	* 659.0115 LUMINAIRES, UTILITY, 150W (240V) EACH	** 659.0135 LUMINAIRES, UTILITY, 400W (240V) EACH
0010	CGC8/DGC8	Sta. 245+50	1	1	1	-	2	-	-	1	1
	CGC6	Sta. 246+20	1	1	1	1	-	-	-	1	-
	1GC11/5GC15	SB2 (BARKER & FREEWAY)	1	1	1	2	-	-	-	2	-
		SUB-TOTALS	3	3	3	3	2	0	0	4	1
0020	1CG10/5CG14	Sta. 46+85 (BARKER)	1	1	1	2	-	-	-	2	-
	AJC1/BJC1	Sta. 266+83	1	1	1	-	2	1	1	-	-
	AJC6	Sta. 267+65	1	1	1	1	-	1	-	-	-
	AJC2/BJC2	SB4 (JANACEK)	1	1	1	-	2	-	2	-	-
		SUB-TOTALS	4	4	4	3	4	2	3	2	0
			7	7	7	6	6	2	3	6	1

* PROJECT TOTAL = 8 EACH ** PROJECT TOTAL = 4 EACH

ELECTRICAL WIRE, LIGHTING

LOCATION - LOCATION	DISTANCE L.F.	655.0620 NO. 8 (AWG) L.F.	655.0620 NO. 8 (AWG GROUND) L.F.	655.0625 NO. 6 (AWG) L.F.	655.0635 NO. 2 (AWG) L.F.
241+90 - SB7	105	345	-	-	-
SB7 - 243+95	120	390	-	-	-
44+80 (SB2) - PB412	40	-	-	100	-
268+20 (JC) - PB501 - PB502 - PB503 - SB4	115	-	110	-	375
SUBTOTALS		735	110		
TOTALS		845		100	375

TRAFFIC SIGNAL FACES

HEAD NO.	SIGNAL BASE NO.	TYPE OF MOUNT	658.0110 3-12 INCH VERTICAL EACH	658.0120 5-12 INCH VERTICAL EACH	658.0155 3-12 INCH HORIZONTAL EACH	658.0412 PEDESTRIAN SIGNAL FACES, 12-INCH EACH
1	SB1	POST	1	-	-	-
	SB1	POST	-	-	-	1
3	SB2	POST	1	-	-	-
4	SB2	POST	-	1	-	-
5	SB2	POST	1	-	-	-
6	SB3	MAST ARM	-	-	1	-
	SB3	POST	-	-	-	1
8	SB4	POST	-	-	1	-
9	SB5	POST	-	-	-	1
10	SB5	POST	1	-	-	-
		TOTALS	4	1	2	3

SAWING PAVEMENT ASPHALT

CATAGORY	STATION - STATION	DESCRIPTION	690.0150 L.F.
0010	747+00 SB	RT. SHOULDER BUTT JOINT	3
	57+00 J - 559+46 J	11' RT EDGE OF PAVEMENT	246
	823+00 NB - 824+10 NB	3' LT. SHOULDER	110
	903+50 NB - 909+50 NB	6' RT. SHOULDER	600
	SUBTOTAL		959
0020	1378+00 SB	RT. SHOULDER BUTT JOINT	8
	1384+70 SB	RT. SHOULDER BUTT JOINT	8
	SUBTOTAL		16
	TOTALS		975

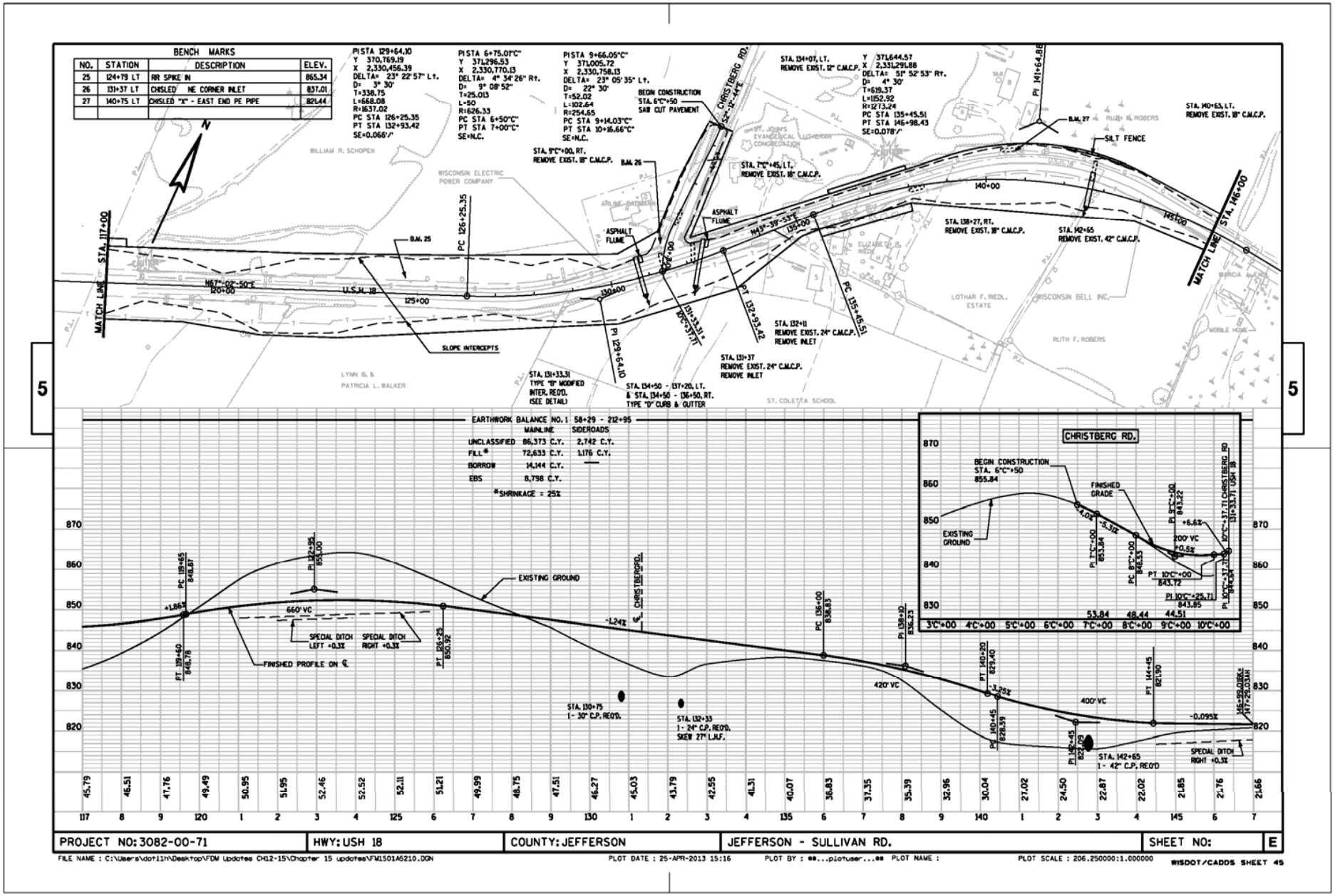
GRADING, SHAPING AND FINISHING INTERSECTIONS (1 LUMP SUM PER LOCATION) 205.9015.S

(FOR INFORMATION ONLY)

	LOCATION	UNCL C.Y.	FILL C.Y.	BORROW C.Y.	WASTE C.Y.	TOPSOIL C.Y.	TOPSOIL OR SALVAGED MULCHING TONS	FERTILIZER, TYPE B CWT.	SEEDING LBS.
(01.)	CTH 'N' & 'S' (NS LINE)	1,480	223	-	1,145	3,296	1.7	2.3	44
(02.)	TRESTIK RD. (T LINE)	304	286	125	-	2,613	1.3	1.7	35
(03.)	VICTORY R. (V LINE)	339	164	-	93	1,541	1.5	0.9	20
(04.)	CLOVER RD. (C LINE)	70	362	473	-	759	0.5	0.5	10
(05.)	CTH 'G' (SOUTH) (GS LINE)	192	114	-	21	499	0.3	0.3	7

PROJECT NO:1000-01-70	HWY:STH 98	COUNTY:PORTAGE	MISCELLANEOUS QUANTITIES	SHEET NO:	E

FILE NAME : C:\Users\dotlih\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5200.DGN PLOT DATE : 25-APR-2013 15:16 PLOT BY : ##...plotuser...## PLOT NAME : PLOT SCALE : 206.250000:1.000000 WISDOT/CADDS SHEET 43


BENCH MARKS
NO. STATION DESCRIPTION ELEV.
25 124+79 LT RR SPIKE IN 865.34
26 131+37 LT CHSLED NE CORNER INLET 837.01
27 140+75 LT CHSLED "X" - EAST END PE PIPE 821.44
PISTA 129+64.10
Y 370,769.19
X 2,330,456.39
DELTA= 23° 22' 57" Lt.
D= 3° 30'
T=338.75
L=668.08
R=1637.02
PC STA 126+25.35
PT STA 132+93.42
SE=0.066'/'
PISTA 6+75.01"C"
Y 371,296.53
X 2,330,770.13
DELTA= 4° 34' 26" Rt.
D= 9° 08' 52"
T=25.013
L=50
R=626.33
PC STA 6+50"C"
PT STA 7+00"C"
SE=N.C.
PISTA 9+66.05"C"
Y 371,005.72
X 2,330,758.13
DELTA= 23° 05' 35" Lt.
D= 22° 30'
T=52.02
L=102.64
R=254.65
PC STA 9+14.03"C"
PT STA 10+16.66"C"
SE=N.C.
Y 371,644.57
X 2,331,291.88
DELTA= 51° 52' 53" Rt.
D= 4° 30'
T=619.37
L=1152.92
R=1273.24
PC STA 135+45.51
PT STA 146+98.43
SE=0.078'/'
BEGIN CONSTRUCTION STA. 6"C"+50 SAW CUT PAVEMENT
CHRISTBERG RD.
STA. 134+07, LT. REMOVE EXIST. 12" C.M.C.P.
STA. 140+63, LT. REMOVE EXIST. 18" C.M.C.P.
SILT FENCE
B.M. 27
B.M. 26
B.M. 25
STA. 9"C"+00, RT. REMOVE EXIST. 18" C.M.C.P.
STA. 7"C"+45, LT. REMOVE EXIST. 18" C.M.C.P.
STA. 138+27, RT. REMOVE EXIST. 18" C.M.C.P.
STA. 142+65 REMOVE EXIST. 42" C.M.C.P.
ASPHALT FLUME
MATCH LINE STA. 117+00
MATCH LINE STA. 146+00
N67°-02'-50"E
U.S.H. 18
SLOPE INTERCEPTS
PC 126+25.35
PI 129+64.10
PT 132+93.42
PC 135+45.51
STA. 132+11 REMOVE EXIST. 24" C.M.C.P. REMOVE INLET
STA. 131+37 REMOVE EXIST. 24" C.M.C.P. REMOVE INLET
STA. 131+33.31 TYPE "B" MODIFIED INTER. REQ'D. (SEE DETAIL)
STA. 134+50 - 137+20, LT. & STA. 134+50 - 136+50, RT. TYPE "D" CURB & GUTTER
WISCONSIN ELECTRIC POWER COMPANY
WILLIAM R. SCHOPEN
LYNN B. & PATRICIA L. WALKER
LOTHAR F. RIEDL ESTATE
WISCONSIN BELL INC.
RUTH F. ROBERS
ST. COLETTA SCHOOL
EARTHWORK BALANCE NO. 1 58+29 - 212+95
MAINLINE SIDEROADS
UNCLASSIFIED 86,373 C.Y. 2,742 C.Y.
FILL* 72,633 C.Y. 1,176 C.Y.
BORROW 14,144 C.Y.
EBS 8,798 C.Y.
*SHRINKAGE = 25%
EXISTING GROUND
FINISHED PROFILE ON ℄
SPECIAL DITCH LEFT +0.3%
SPECIAL DITCH RIGHT +0.3%
660' VC
420' VC
400' VC
200' VC
STA. 130+75 1 - 30" C.P. REQ'D.
STA. 132+33 1 - 24" C.P. REQ'D. SKEW 27° L.H.F.
STA. 142+65 1 - 42" C.P. REQ'D.
CHRISTBERG RD.
BEGIN CONSTRUCTION STA. 6"C"+50 855.84
FINISHED GRADE
EXISTING GROUND
PROJECT NO: 3082-00-71
HWY: USH 18
COUNTY: JEFFERSON
JEFFERSON - SULLIVAN RD.
SHEET NO:
E
FILE NAME : C:\Users\dotlin\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5210.DGN
PLOT DATE : 25-APR-2013 15:16
PLOT BY : ##...plotuser...##
PLOT NAME :
PLOT SCALE : 206.250000:1.000000
WISDOT/CADDS SHEET 45

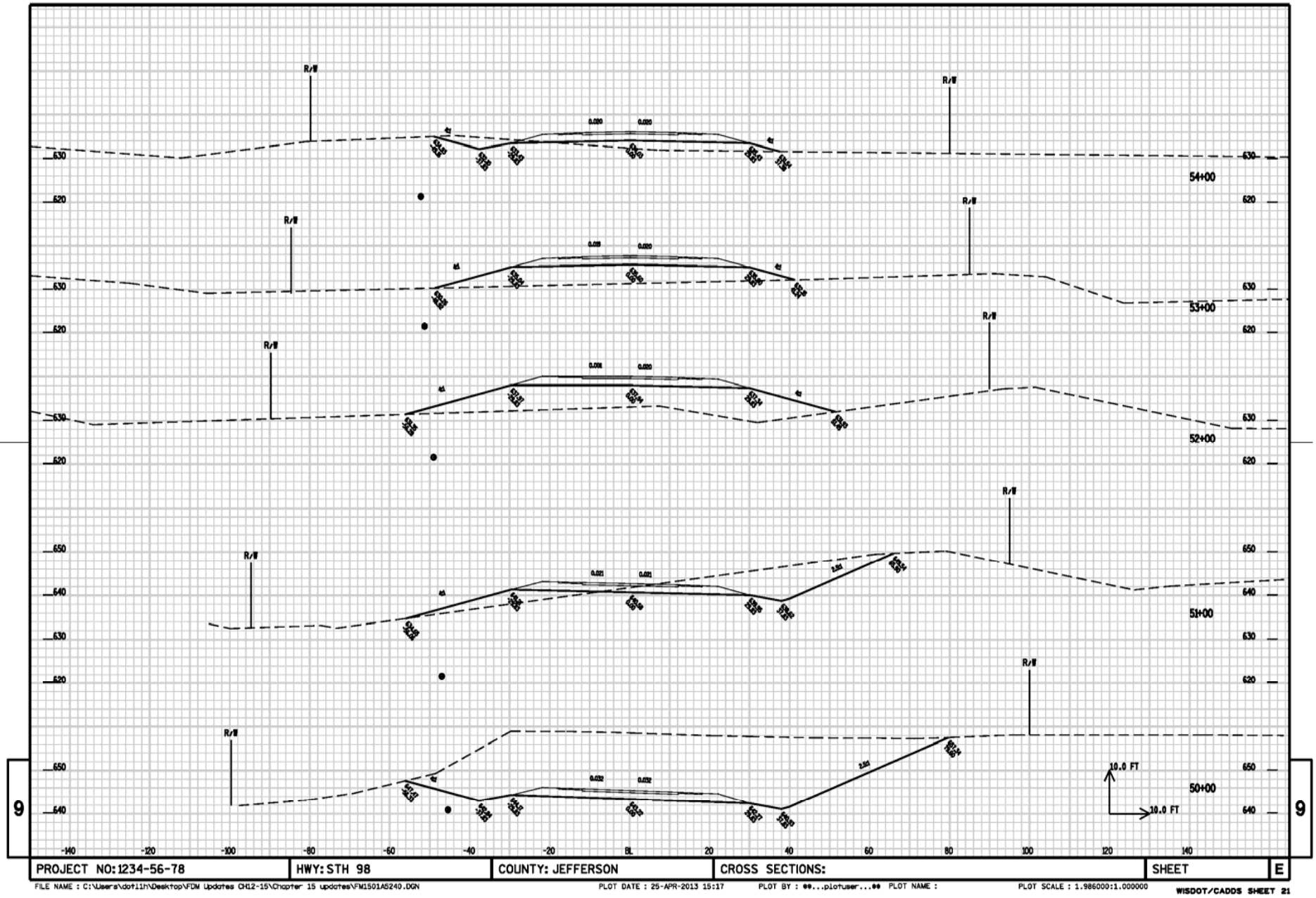
	AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							
STATION	Cut	Salvaged/ Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut Note 1	Salvaged/ Unusable Pav't Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Expanded Fill Marsh 1.25	Expanded Backfill 1.50 Note 4	Expanded Rock EBS 1.10	Expanded Backfill 1.30 Note 5	Reduced Marsh in Fill 0.60 Note 6	Reduced EBS in Fill 0.80 Note 7	Mass Ordinate Note 8
10+00.00	13500	0	0	0	2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11+00.00	2700	0	0	0	675	0	30000	0	0	0	5000	0	30000	-6875	0	5500	0	0	0	36875
12+00.00	2700	0	0	0	675	0	10000	0	0	0	2500	0	40000	-10313	0	8250	0	0	0	50313
13+00.00	2700	0	0	0	675	0	10000	0	0	0	2500	0	50000	-13750	0	11000	0	0	0	63750
14+00.00	2700	0	0	0	675	0	10000	0	0	0	2500	0	60000	-17188	0	13750	0	0	0	77188
15+00.00	2700	0	0	0	675	0	10000	0	0	0	2500	0	70000	-20625	0	16500	0	0	0	90625
16+00.00	2700	0	0	0	675	0	10000	0	0	0	2500	0	80000	-24063	0	19250	0	0	0	104063
17+00.00	2700	0	0	0	675	0	10000	0	0	0	2500	0	90000	-27500	0	22000	0	0	0	117500
18+00.00	2700	0	0	0	675	0	10000	0	0	0	2500	0	100000	-30938	0	24750	0	0	0	130938
19+00.00	2700	0	0	0	675	0	10000	0	0	0	2500	0	110000	-34375	0	27500	0	0	0	144375
19+00.01	0	0	0	0	0	0	1	0	0	0	0	0	110001	-34375	0	27500	0	0	0	144376
19+99.99	0	0	0	0	0	0	0	0	0	0	0	0	110001	-34375	0	27500	0	0	0	144376
20+00.00	0	0	2700	0	0	675	0	0	0	0	0	0	110001	-34375	0	27500	0	0	0	144375
21+00.00	0	0	2700	0	0	675	0	0	10000	0	0	2500	110001	-24375	0	27500	3250	0	2000	134375
22+00.00	0	0	2700	0	0	675	0	0	10000	0	0	2500	110001	-14375	0	27500	6500	0	4000	124375
23+00.00	0	0	2700	0	0	675	0	0	10000	0	0	2500	110001	-4375	0	27500	9750	0	6000	114375
23+00.01	0	0	2700	0	0	0	0	0	1	0	0	0	110001	-4374	0	27500	9750	0	6000	114374
23+99.99	0	0	2700	0	0	0	0	0	9998	0	0	0	110001	8123	0	27500	9751	0	6000	101877
24+00.00	0	0	2700	2430	0	0	0	0	1	0	0	0	110001	8124	1	27500	9751	0	6000	101877
25+00.00	0	0	2700	810	0	0	0	0	10000	6000	0	0	110001	16124	9001	27500	9751	3600	6000	93877
26+00.00	0	0	2700	810	0	0	0	0	10000	3000	0	0	110001	26374	13501	27500	9751	5400	6000	83627
27+00.00	0	0	2700	810	0	0	0	0	10000	3000	0	0	110001	36624	18001	27500	9751	7200	6000	73377
28+00.00	0	0	2700	810	0	0	0	0	10000	3000	0	0	110001	46874	22501	27500	9751	9000	6000	63127
28+00.01	0	0	2700	0	0	0	0	0	1	0	0	0	110001	46875	22501	27500	9751	9000	6000	63125
29+00.00	0	0	2700	0	0	0	0	0	9999	0	0	0	110001	59374	22501	27500	9751	9000	6000	50627
30+00.00	0	0	2700	0	0	0	0	0	10000	0	0	0	110001	71874	22501	27500	9751	9000	6000	38127
31+00.00	0	0	2700	0	0	0	0	0	10000	0	0	0	110001	84374	22501	27500	9751	9000	6000	25627
32+00.00	0	0	2700	0	0	0	0	0	10000	0	0	0	110001	96874	22501	27500	9751	9000	6000	13127
33+00.00	0	0	2700	0	0	0	0	0	10000	0	0	0	110001	109374	22501	27500	9751	9000	6000	627
34+00.00	0	0	2700	0	0	0	0	0	10000	0	0	0	110001	121874	22501	27500	9751	9000	6000	-11873
35+00.00	0	0	2700	0	0	0	0	0	10000	0	0	0	110001	134374	22501	27500	9751	9000	6000	-24373
35+00.01	0	0	0	0	0	0	0	0	1	0	0	0	110001	134375	22501	27500	9751	9000	6000	-24374
35+99.99	0	0	0	0	0	0	0	0	0	0	0	0	110001	134375	22501	27500	9751	9000	6000	-24374
36+00.00	2700	0	0	0	0	0	1	0	0	0	0	0	110001	134375	22501	27500	9751	9000	6000	-24374
37+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	120001	134375	22501	27500	9751	9000	6000	-14374
38+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	130001	134375	22501	27500	9751	9000	6000	-4374
39+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	140001	134375	22501	27500	9751	9000	6000	6627
40+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	150001	134375	22501	27500	9751	9000	6000	15627
41+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	160001	134375	22501	27500	9751	9000	6000	25627
42+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	170001	134375	22501	27500	9751	9000	6000	35627
43+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	180001	134375	22501	27500	9751	9000	6000	45627
44+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	190001	134375	22501	27500	9751	9000	6000	55627
45+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	200001	134375	22501	27500	9751	9000	6000	65627
46+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	210001	134375	22501	27500	9751	9000	6000	75627
47+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	220001	134375	22501	27500	9751	9000	6000	85627
48+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	230001	134375	22501	27500	9751	9000	6000	95627
49+00.00	2700	0	0	0	0	0	10000	0	0	0	0	0	240001	134375	22501	27500	9751	9000	6000	105627
50+00.00	2700	0	0	0		0	10000	0	0	0	0	0	250001	134375	22501	27500	9751	9000	6000	115627
			0						0											
			0						0											
					Column total		250001	0	150001	15001	25000	7500								

Notes:		
1 - Cut	Cut includes Salvaged/Unusable Pavement material	
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections	
3 - Fill	Does not include Unusable Pavement Exc volume	
4 - Expanded Marsh Backfill	Will be backfilled with Granular Backfill (or Cut, or Borrow)	Note 4 - Select one based on input dialog selection
5 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)	Note 5 - Select one based on input dialog selection
6 - Reduced Marsh in Fill	Reduced Marsh Excavation that can be used in Fill	Note 6 - If excavated Marsh can be used in Fill
7 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill	Note 7 - If excavated EBS can be used in Fill
8 - Mass Ordinate	If Marsh or EBS to be backfilled with Cut or Borrow: ² (Cut + Marsh Exc + EBS) - ((Fill - Reduced Marsh in Fill) - (Reduced EBS in Fill) - Expanded Rock) * Fill Factor	Note 8 - Select one based on mass haul input dialog selection. EBS and Marsh Exc used outside 1:1 in fill slopes Note 8 - Select one based on mass haul input dialog selection. EBS and Marsh Exc used outside 1:1 in fill slopes
8 - Mass Ordinate	If Marsh and EBS to be backfilled with Granular: ² (Cut + EBS + Marsh Exc) - ((Fill - (Reduced Marsh in Fill) - (Reduced EBS in Fill) - (Expanded Rock)) * Fill Factor	EBS and Marsh Exc used outside 1:1 in fill slopes
8 - Mass Ordinate	If Marsh and EBS to be backfilled with Granular: ² (Cut) - ((Fill - Expanded Rock) * Fill Factor))³	Marsh and EBS are not usable outside the 1:1 slopes
8 - Mass Ordinate	If Marsh and EBS to be backfilled with Cut or Borrow: ² (Cut) - ((Fill - Expanded Rock) * Fill Factor))³	Marsh and EBS are not usable outside the 1:1 slopes

9 9

PROJECT NO:1000-01-70	HWY:STH 98	COUNTY:PORTAGE	EARTHWORK	SHEET	E

FILE NAME : C:\Users\dotilh\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5230.DGN PLOT DATE : 25-APR-2013 15:17 PLOT BY : ##...plotuser...## PLOT NAME : PLOT SCALE : 206.250000:1.000000 WISDOT/CADDS SHEET 49


54+00
53+00
52+00
51+00
50+00
R/W
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PROJECT NO:1234-56-78
HWY:STH 98
COUNTY: JEFFERSON
CROSS SECTIONS:
SHEET
E
FILE NAME : C:\Users\dotlih\Desktop\FDM Updates CH12-15\Chapter 15 updates\FM1501A5240.DGN
PLOT DATE : 25-APR-2013 15:17
PLOT BY : **...plotuser...** PLOT NAME :
PLOT SCALE : 1.986000:1.000000
WISDOT/CADDS SHEET 21