Madison, Wisconsin

CITY OF MADISON

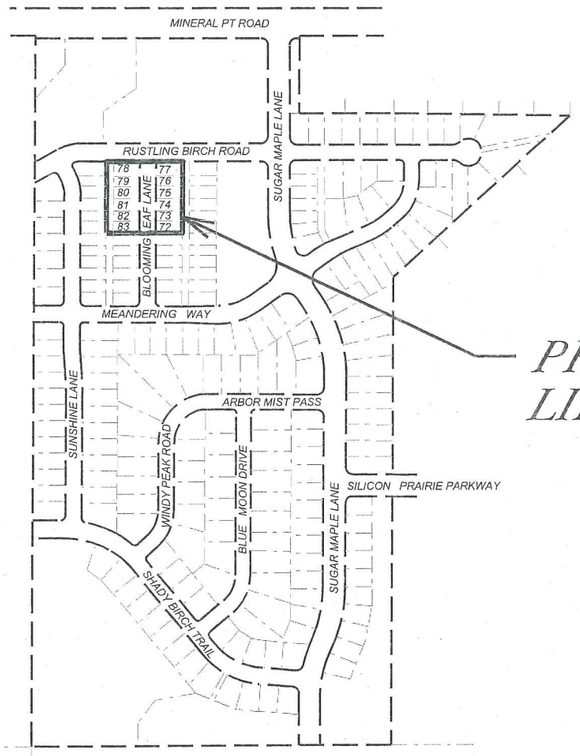
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

BIRCHWOOD POINT PHASE 6

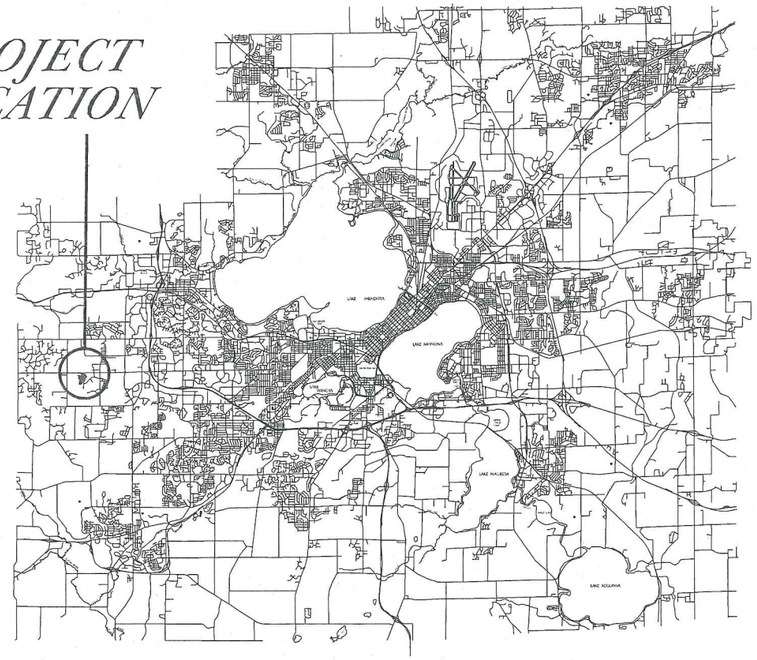
CITY PROJECT NO. 11305

CITY CONTRACT NO. 7646

INDEX OF SHEETS



PROJECT LOCATION



PUBLIC IMPROVEMENT PROJECT APPROVED

APRIL 19, 2016

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

City Engineer — Date 4/22/16

STREET DESIGNED BY:

WISCONSIN JOHN P. SAPP 44054 Janesville, WI 4-21-16 PROFESSIONAL ENGINEER

SANITARY SEWER DESIGNED BY:

WISCONSIN MARK D. MODER E-33979 MADISON WI PROFESSIONAL ENGINEER 4/21/16

WATER DESIGNED BY:

WISCONSIN PETER E. HOLMGREN E-42156 MADISON WI 4/22/2016 PROFESSIONAL ENGINEER

STORM SEWER DESIGNED BY:

WISCONSIN ERIC L. DUNDEE E-40126 SUN PRAIRIE WI 04-21-2016 PROFESSIONAL ENGINEER

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\11305\Streets\Design\11305EN-TitleSht.dgn

DATE: 4/21/2016

BIRCHWOOD POINT PHASE 6 PROJECT NO. 11305	SHEET NO. D-1
DETAIL	
STANDARD NOTES AND COMMENTS	CITY OF MADISON

THE LOCATION AND INFORMATION FOR PROPOSED NEW TREES, IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY. THE LOCATIONS, SPECIFICATIONS AND PLANTING METHODS OF ALL PROPOSED NEW OR REPLACEMENT TREES IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE APPROVED BY THE CITY FORESTER PRIOR TO INSTALLATION.

NO TREES IN THE RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE TRIMMED, PRUNED, REMOVED OR ADVERSELY AFFECTED IN ANY WAY UNTIL THE DEVELOPER HAS RECEIVED WRITTEN PERMISSION FROM THE CITY ENGINEER OR CITY FORESTER. SAID WRITTEN PERMISSION SHALL INCLUDE LANGUAGE INDICATING THAT SECTION 10.101 OF THE MADISON GENERAL ORDINANCES AND ADMINISTRATIVE PROCEDURE MEMORANDUM NO. 6–2, REFERING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

ALL PAVEMENT WITHIN THE BLOOMING LEAF WAY RIGHT–OF–WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADES OF 0.5% TOWARD STORM SEWER INLETS.

ALL DITCHES SHALL DRAIN WITH A MINIMUM GRADES OF 0.5%

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL BE 1.5%. THE LONGITUDINAL GRADE OF BARRIER FREE SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33%. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO S.D.D. 3.03. AT ALL OTHER LOCATIONS THE LONGITUDINAL GRADE OF SIDEWALKS SHALL NOT EXCEED 5.0 % OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER NOR BE LESS THAN 0.5% AND SHALL DRAIN TOWARD STORM SEWER INLETS. SIDE SLOPES WITHIN TEN FEET OF A PUBLIC SIDEWALK SHALL NOT EXCEED 4.00:1. ALL SIDEWALK AND SIDEWALK RAMP ELEVATIONS AND GRADES SHALL BE FIELD VERIFIED AND SET TO COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS AND THE A.D.A. GUIDELINES.

OBTAIN A PRINT OUT OF THE ALIGNMENT FROM THE CITY ENGINEER PRIOR TO STAKING THIS PROJECT.

CURB STATION AND OFFSETS SHALL BE TO THE FACE OF CURB UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE TOP OF CURB (OR EXTENDED TOP OF CURB FOR DRIVEWAYS OR RAMPS) UNLESS OTHERWISE INDICATED.

POWER POLES AND OTHER OBSTRUCTIONS SHALL BE MOVED TO PROVIDE 2 FEET MINIMUM OF CLEAR DISTANCE FROM ANY FACE OF CURB OR EDGE OF SIDEWALK.

ANY INFORMATION SHOWN ON THIS PLAN, WHICH IS NOT PART OF THIS PROJECT, IS PRELIMINARY AND NOT FOR CONSTRUCTION.

THERE MAY BE EXISTING UTILITIES OR OTHER FEATURES WHICH ARE EITHER NOT SHOWN OR SHOWN INCORRECTLY ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO LOCATE AND IDENTIFY ALL UTILITIES AND TOPOGRAPHY WHICH MAY AFFECT THE CONSTRUCTION OF THESE IMPROVEMENTS.

ALL PERMANENT SIGNING AND POSTING WILL BE DETERMINED AND PROVIDED BY THE TRAFFIC ENGINEERING DIVISION, FOLLOWING CONSTRUCTION OF THESE IMPROVEMENTS.

THE DEVELOPER SHALL PROVIDE, INSTALL AND MAINTAIN ALL STREET END BARRICADES, SIGNING AND TRAFFIC CONTROL, AS REQUIRED BY THE CITY TRAFFIC ENGINEER.

PAVEMENT SAWCUTS SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION ENGINEER. SAWCUTS SHOWN ON THE PLAN ARE APPROXIMATE.

PLOT SCALE: ____

PLOT NAME: ____

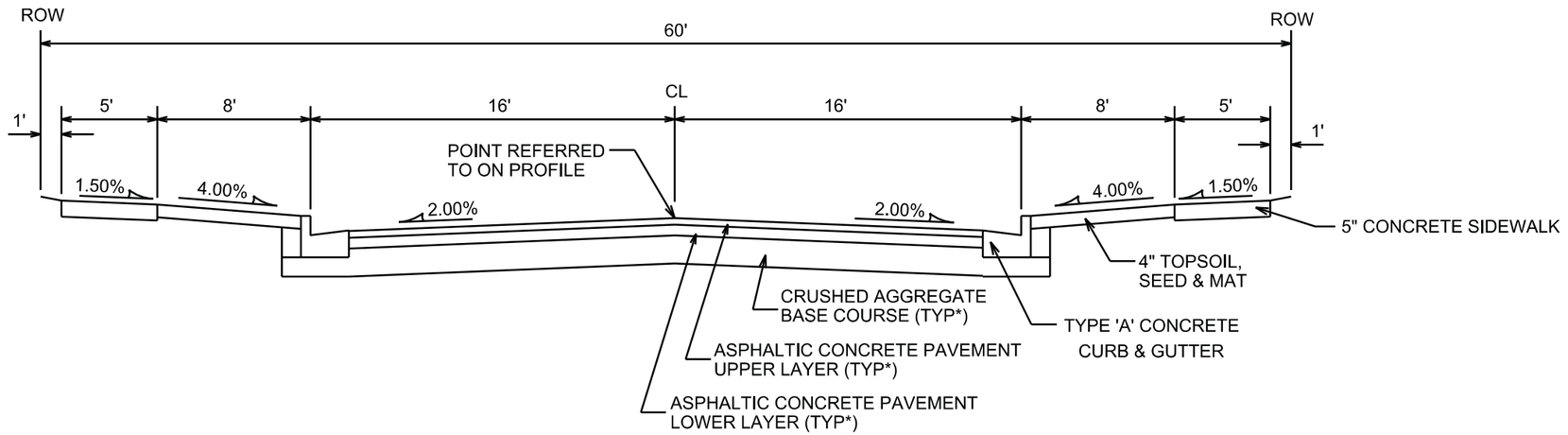
REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\11305\Streets\Design\11305EN-GenINote##.dgn

DATE: 4/1/2016

BIRCHWOOD POINT PHASE 6 PROJECT NO. 11305	SHEET NO. D-2
DETAIL	
TYPICAL SECTION	CITY OF MADISON



TYPICAL SECTION

BLOOMING LEAF WAY

CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	THICKNESS
A	6"	4"	E-0.3	1.75"	E-0.3	1.75"
B	6"	4"	E-1	2.25"	E-1	2"
C	6"	4"	E-3	3.25"	E-3	2"

NOTES:

* BLOOMING LEAF WAY TO BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN

PLOT SCALE: ____

PLOT NAME: ____

REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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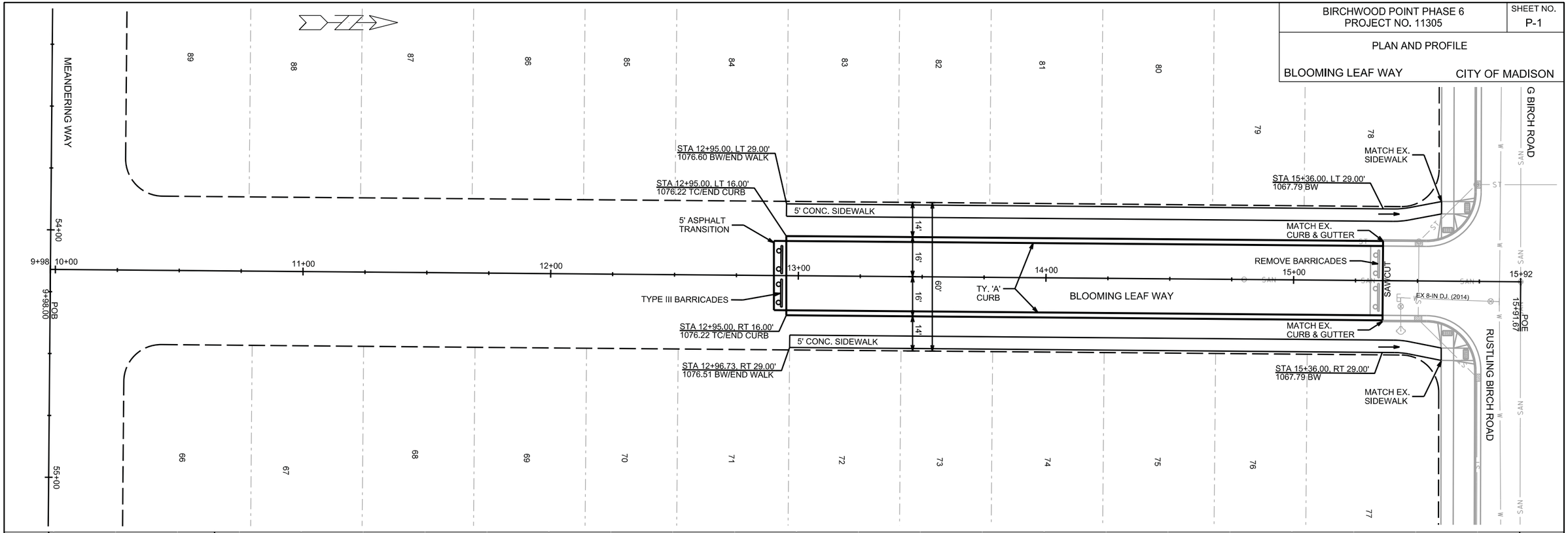
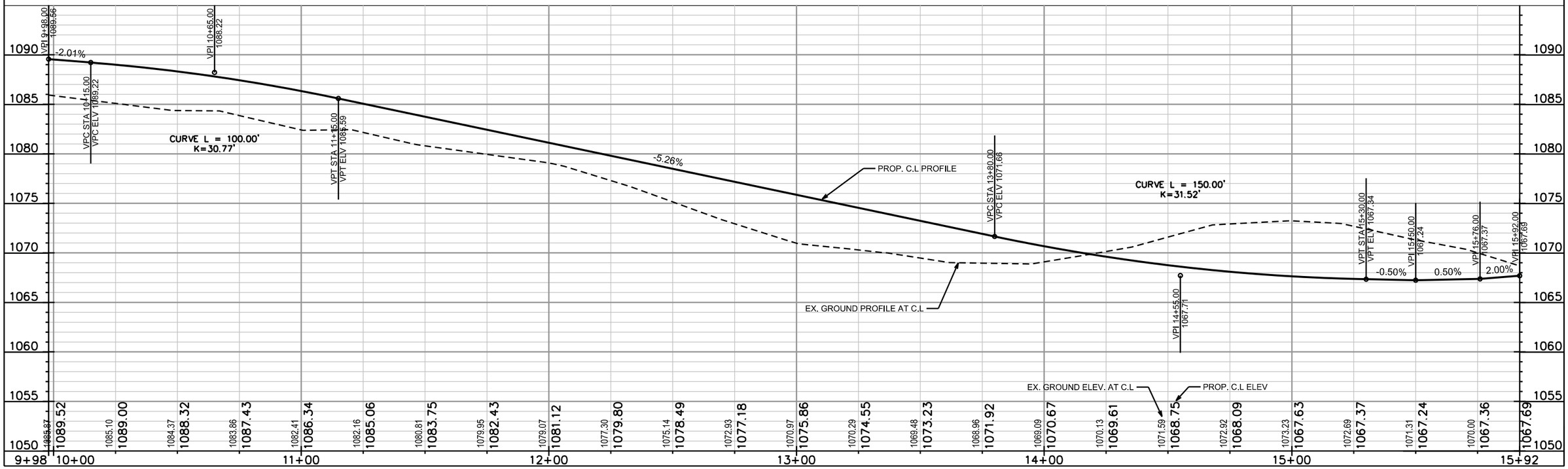
DATE: 4/1/2016

BIRCHWOOD POINT PHASE 6 PROJECT NO. 11305	SHEET NO. P-1
PLAN AND PROFILE	
BLOOMING LEAF WAY	CITY OF MADISON





PLOT SCALE: ____

PLOT NAME: ____

REV: DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\11305\Streets\Design\11305EN-PnP-BloomingLeaf01.dgn

DATE: 4/1/2016

BIRCHWOOD POINT PHASE 6 PROJECT NO. 11305	SHEET NO. P-2
PLAN AND PROFILE	
OUTLOT 8	CITY OF MADISON

REV. 05-06-16 CWD

PLOT SCALE: ____

PLOT NAME: ____

REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

52+00

53+00

MEANDERING WAY

90 91 92 93 94 95 96 97 98 99 100 101

89 88 87 86 85 84 83 82 81 80 79 78

0+00 OUTLOT 8 1+00 2+00 TYPE III BARRICADE 3+00 ALLEY CURB 4+00 5+00 5+31

0+00.00 POB

5+30.78 POE

STA 2+67.00, LT 6.00'
1077.25 EP/END CURB

STA 2+67.00, RT 6.00'
1077.49 EP/END CURB

10' ASPH. TRANSITION

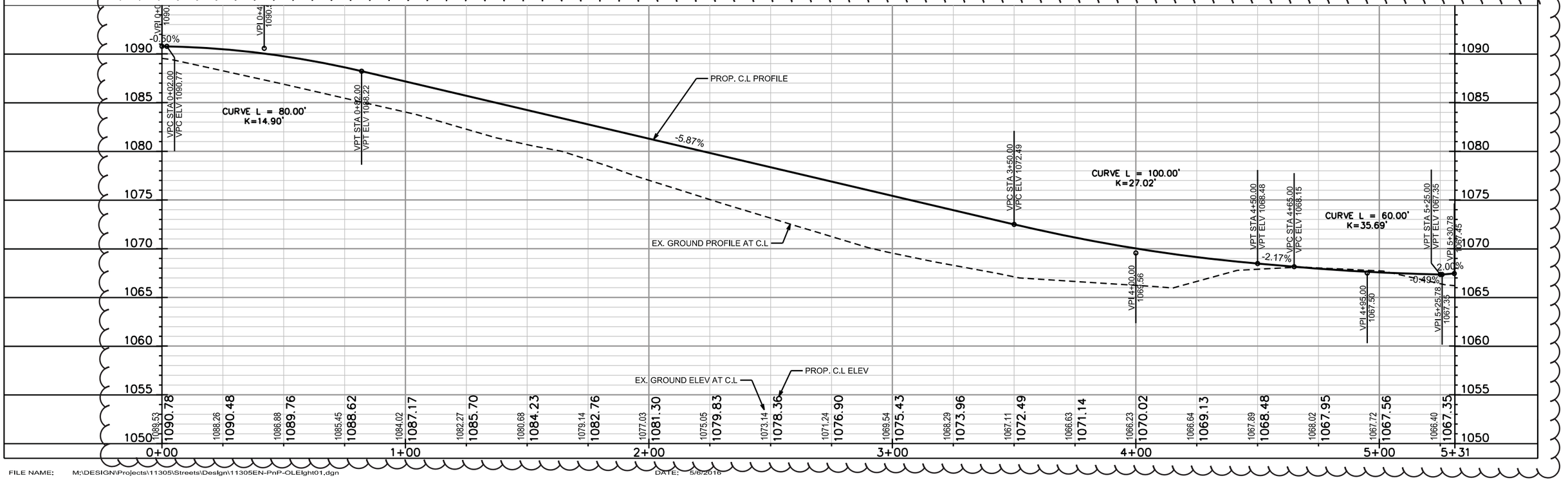
26'

6.5' 7.5' 7.5' 6.5'

2%

7 IN. CONC. DRIVEWAY

NOTE: CONSTRUCT ALLEY PER S.D.D. 4.07



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DATE: 5/6/2016

BIRCHWOOD POINT PHASE 6
PROJECT NO. 11305

SHEET NO.
U-1

PLAN AND PROFILE

BLOOMING LEAF WAY — CITY OF MADISON

PLOT SCALE: ____
PLOT NAME: ____
REV. DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

GRADE DITCH TO MATCH PIPE INVERT

STUB
10LF - 8" SAN PVC @ 3.60%
EI=1067.64

STUB
8LF - 4" SAN PVC @ 0.50%
EI=1067.42

STUB
8LF - 4" SAN PVC @ 0.50%
EI=1067.52

S-703 S-701 S-700 S-702

P-1 P-2 P-3

205LF - 8" SAN PVC @ 4.86%

SAS#80

EX.SAS#14

EX. 8" SAN PVC

EX.SAS#13

BLOOMING LEAF WAY

MEANDERING WAY

POB 9+98.00

PROPOSED WATER MAIN - SEE WATER UTILITY PLAN

205LF - 8" SAN PVC @ 4.79%

EXISTING WATER MAIN

18" EX. RCP

21" EX. RCP

21" EX. RCP

EX. S-213

EX. S-212

8" EX. SAN PVC

STUB#1
10LF - 8" SAN PVC @ 3.60%
EI=1067.64

SAS#80
STA 12'BL'+75.00 LT 0.00'
RIM=1077.18
EI=1067.28(S)(8")
EI=1067.18(N)(8")
EI=1067.38(W)(4")
EI=1067.48(E)(4")

EX.SAS#14
STA 14'BL'+80.00 RT 0.00'
RIM=1067.99
EI=1057.36(S)
EI=1057.26(N)

EX.SAS#13
STA 54'RB'+33.61 RT 0.00'
RIM=1067.70
EI=1056.60(E)
EI=1056.70(S)
EI=1056.50(W)

FILE NAME: M:\DESIGN\Projects\11305\Sanitary\Design\11305EN-PnP-BloomingLeaf01.dgn

DATE: 4/4/2016

BIRCHWOOD POINT PHASE 6
PROJECT NO. 11305

SHEET NO.
U-2

PLAN AND PROFILE

OUTLOT 8

CITY OF MADISON

REVISED LES 05/06/2016

PLOT SCALE: ____

PLOT NAME: ____

REV. DATE: ____

ORIGINATOR: CITY OF MADISON STREETS DIVISION

MEANDERING WAY

RUSTLING BIRCH ROAD

52+00

53+00

0+00

1+00

2+00

3+00

4+00

5+00

5+31

POB
0+00.00

POE
5+30.78

90 91 92 93 94 95 96 97 98 99 100 101

89 88 87 86 85 84 83 82 81 80 79 78

P-5 S-707 S-705 S-704 P-6 P-4 S-708 S-706

SAN W ST

1090 1085 1080 1075 1070 1065 1060 1055 1050

FILE NAME: M:\DESIGN\Projects\11305\Sanitary\Design\11305EN-PnP-OLEIght01.dgn

DATE: 5/6/2016

SANITARY SCHEDULE

ALIGNMENT CODES:

'BL'-BLOOMING LEAF WAY

BIRCHWOOD POINT PHASE 6 PROJECT NO. 11305	SHEET NO. U-3
SANITARY SEWER SCHEDULE	CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS#80	12'BL'+75.00	LT-0.00	1077.18	1067.18	10.00	

PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES
EX.SAS#14	SAS#80	1057.36	1067.18	205	4.79%	8"	SDR-35	

PLOT SCALE: _ _ _

PLOT NAME: _ _ _

REV. DATE: _ _

FILE NAME: M:\DESIGN\PROJECTS\11305\SANITARY\DOCUMENTS\MISC\SANITARY SCHEDULE (

DATE: 04/04/2016

PLOT SCALE: 1:1

PLOT N

STORM SEWER SCHEDULE

ALIGNMENT CODES:

'BL'- BLOOMING LEAF WAY
'OL'- OUTLOT 8

BIRCHWOOD POINT PHASE 6	SHEET NO.
PROJECT NO. 11305	U-4
STORM SEWER SCHEDULE	CITY OF MADISON

REVISED LES 05/06/2016

PROPOSED STORM STRUCTURES

	STRUC NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
	S-700	15'BL'+21.00	LT-15.74	CONCRETE COLLAR	-	1063.67	-	PER S.D.D. 5.4.5
	S-701	14'BL'+67.00	LT-15.50	3X3 SAS	1068.38	1063.93	4.45	W/ R-3067-7004-V
	S-702	14'BL'+23.73	RT-15.50	H INLET	1069.76	1066.43	3.33	W/ R-3067-7004-V
	S-703	12'BL'+70.00	LT-15.50	18-IN APRON ENDWALL W/ GATE	-	1073.56	-	PER S.D.D. 5.4.1
	S-704	5'OL'+27.57	LT-7.79	CONCRETE COLLAR	-	1063.13	-	PER S.D.D. 5.4.5
	S-705	5'OL'+25.95	LT-6.75	H INLET FLAT	1067.23	1063.13	4.10	PER S.D.D. 5.7.33; W/ R-3362-L; SEE SPEC. NOTE 2
	S-706	5'OL'+25.95	RT-6.75	H INLET FLAT	1067.47	1063.50	3.97	PER S.D.D. 5.7.33; W/ R-3362-L; SEE SPEC. NOTE 2
*	**S-707**	**5'OL'+12.95**	**LT-6.75**	**H INLET FLAT**	**1067.31**	**1063.70**	**3.61**	**PER S.D.D. 5.7.33; W/ R-3362-L; SEE SPEC. NOTE 2**
*	**S-708**	**5'OL'+12.95**	**RT-6.75**	**H INLET FLAT**	**1067.55**	**1064.07**	**3.48**	**PER S.D.D. 5.7.33; W/ R-3362-L; SEE SPEC. NOTE 2**

PROPOSED STORM PIPES

PIPE NO.	FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PIPE LENGTH (FT)	PLAN LENGTH (FT)	SLOPE (%)	SIZE (DIA)	TYPE	NOTES
P-1	S-700	S-701	1063.67	1063.93	53	54	0.50%	18"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-2	S-701	S-702	1064.43	1066.43	50	53	4.02%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-3	S-701	S-703	1063.93	1073.56	195	197	4.94%	18"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-4	S-705	S-706	1063.13	1063.50	12	14	3.22%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-5	S-705	S-707	1063.13	1063.70	10	13	5.70%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-6	S-707	S-708	1063.70	1064.07	12	14	3.22%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)

SPECIAL NOTES:

1) THE STORM STRUCTURE SHALL HAVE A 2" PVC PIPE INSTALLED FROM AND THROUGH THE FRONT WALL OF THE INLET, BENT UP TO THE TOP OF THE SURFACE COURSE OF BINDER IN FRONT OF THE INLET SUCH THAT THE CENTER OF THE PIPE IS 5" FROM THE EDGE OF GUTTER. WHEN THE PAVEMENT IS BEING PREPARED FOR SURFACE IT IS THE CONTRACTORS RESPONSIBILITY TO SAW CUT OUT A 2' X 2' SQUARE REMOVE THE PIPE, PATCH THE INLET, PATCH THE BINDER AND PAVE THE STREET.
2) TOP OF CASTING ELEVATION FOR H INLET FLAT IS 1" ABOVE FLOWLINE OF CASTING.

STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT LAUREN STRIEGL OF CITY ENGINEERING AT (608) 266-4094, LSTRIEGL@CITYOFMADISON.COM, FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608) 264-9275.

- INLETS LOCATED IN TYPE "H" CURB SHALL BE INSTALLED PER S.D.D. 5.7.27

BIRCHWOOD POINT PHASE 6
PROJECT NO. 11305

SHEET NO.
W-1

PLAN AND PROFILE

BLOOMING LEAF WAY — CITY OF MADISON

PLOT SCALE: ——

PLOT NAME: ——

REV. DATE: ——

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STA 12+81.1 / 8.0'RT
8-IN X 6-IN TEE
w/6-IN MJ PLUG (RELO)

INSULATION (TYPICAL)

STA 15+43.3 / 6.8'RT±
CONNECT TO EX TEE
RELOCATE EX MJ PLUG

STA 12+81.1 / 20.0'RT
5-IN HYDRANT

STA 15+23.3 / 8.0'RT
WM DEFLECTION PT

WN9
1-IN

BLOOMING LEAF WAY

EX 8-IN D.I. (2014)

STA 12+81.1
8-IN X 6-IN TEE
w/8-IN MJ PLUG (RELO)

STA 15+43.28
CONNECT TO EX. 8-IN X 6-IN TEE

PROPOSED 8-IN WATER MAIN

MIN. 6 FT (TYP.)

EXISTING WATER MAIN

FILE NAME: \\Glsserver\data\DESIGN\Projects\11305\Water\Design\11305WU-PnP-BloomingLeaf01.dgn

DATE: 4/1/2016

BIRCHWOOD POINT PHASE 6 PROJECT NO. 11305	SHEET NO. W-2
WATER ESTIMATE OF MATERIALS CITY OF MADISON	

CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

INDICATES INSULATION AT STORM SEWER CROSSING

WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.

WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.

WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.

WN4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.

WN5 RELOCATE THE EXISTING FIRE HYDRANT.

WN6 ABANDON WATER VALVE ACCESS STRUCTURE.

WN7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.

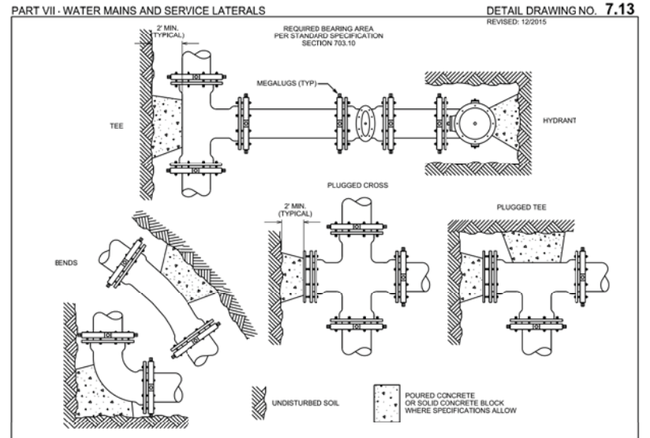
WN8 ABANDON THE VALVE BOX.

WN9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.

WN10 REMOVE AND SALVAGE EXISTING HYDRANT

WN11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE

PART VII - WATER MAINS AND SERVICE LATERALS — DETAIL DRAWING NO. 7.13 — REVISED: 12/2015



CITY OF MADISON WATER UTILITY	NOT TO SCALE	STANDARD CONCRETE BLOCK THRUST RESTRAINT

City of Madison Standard Specifications for Public Works Construcion

ESTIMATE OF PROJECT MATERIALS:

** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF. ALWAYS REFER TO PLANS.*

WATER MAIN AND FITTING MATERIALS	
6-IN PIPE (LF)	15
8-IN PIPE (LF)	270
POLY WRAP (LF)	320
8-IN X 6-IN TEES	1
8-IN MJ PLUGS (RELOCATED)	1
5-IN HYDRANTS	1

MISC. MATERIALS	
INSULATION (LF)	8
COPPER TUBING (1-IN TO 2-IN)	AS REQ

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

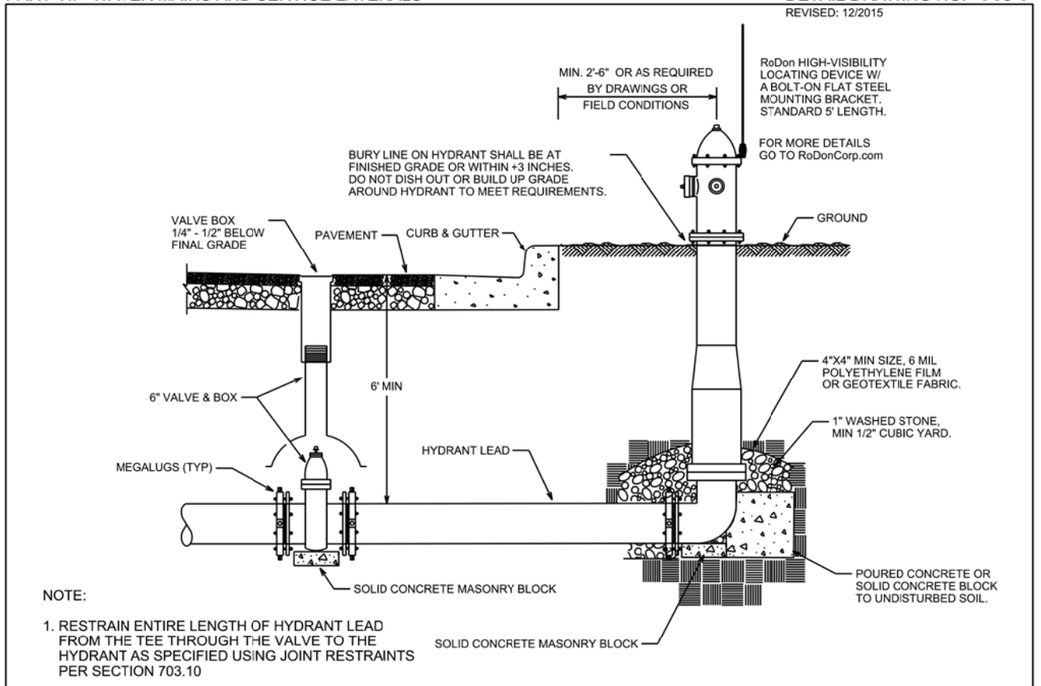
CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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

MEMBER ONE CALL SYSTEMS INTERNATIONAL

DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS — DETAIL DRAWING NO. 7.04 — REVISED: 12/2015



NOTE:

1. RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL HYDRANT INSTALLATION

City of Madison Standard Specifications for Public Works Construction

PLOT SCALE: ____
PLOT NAME: ____
REV. DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: \\Glsserver\data\DESIGN\Projects\11305\Water\Design\11305WU-Materials.dgn

DATE: 4/1/2016