

Madison, Wisconsin

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# CITY OF MADISON

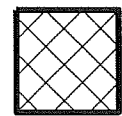
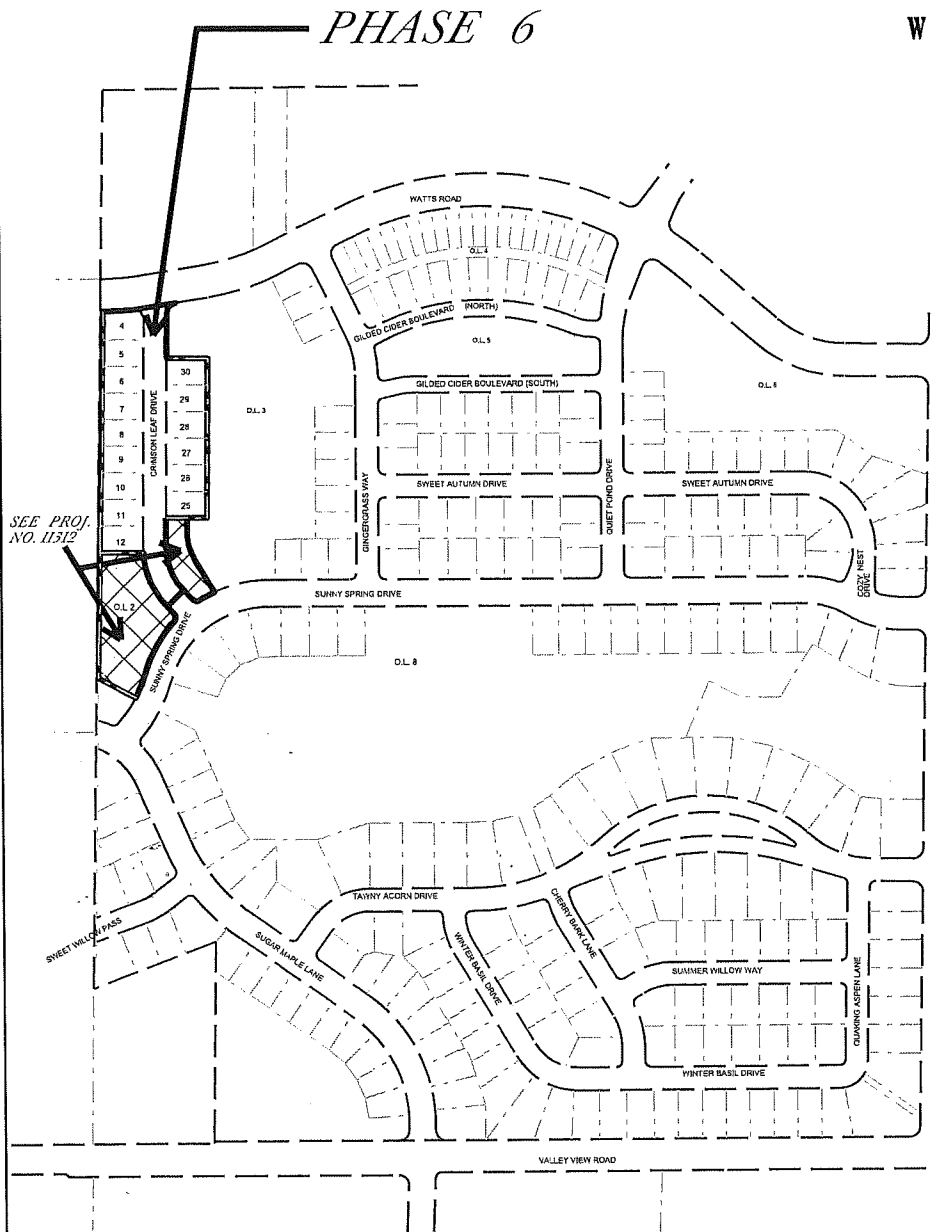
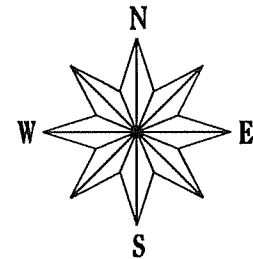
## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

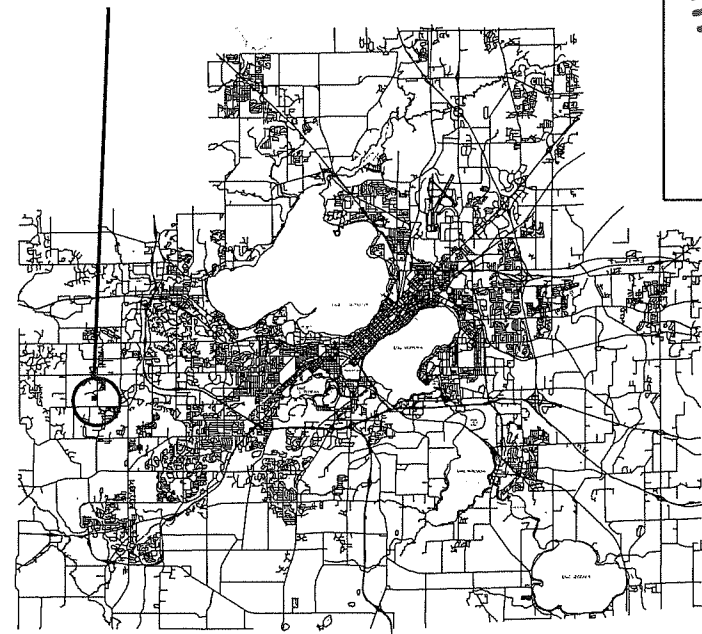
## FIRST ADDITION TO 1000 OAKS PHASE 6

CITY PROJECT NO. 11935  
 CITY CONTRACT NO. 8198  
 MUNIS NO. 11935



SEE PROJ. NO. 11312 FOR STORMWATER MANAGEMENT PLANS

### PROJECT LOCATION



PUBLIC IMPROVEMENT PROJECT APPROVED

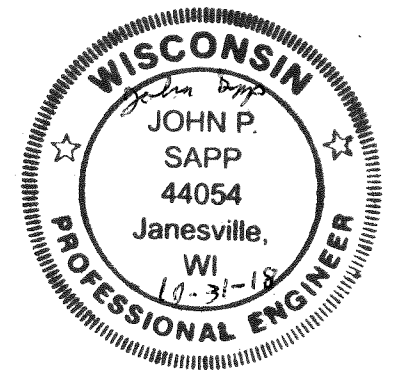
JULY 13, 2018

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

*[Signature]* 11/6/18  
 City Engineer Date

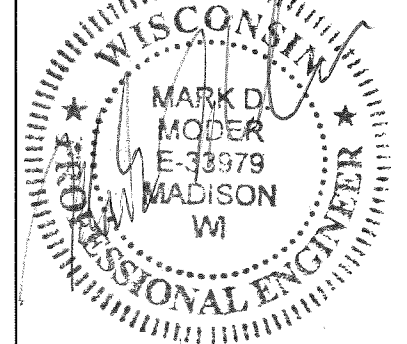
STREET GRADES DESIGNED BY:



WATER DESIGNED BY:



SANITARY SEWER DESIGNED BY:



LATERALS/ASS: ONLY 10/31/18

STORM SEWER DESIGNED BY:



11-6-18

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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, REFERRING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

DEVELOPER MUST SUBMIT A TRAFFIC CONTROL PLAN TO CITY TRAFFIC ENGINEERING AT LEAST 14 DAYS PRIOR TO THE START OF WORK. WORK SHALL NOT PROCEED UNTIL AN APPROVED TRAFFIC CONTROL PLAN IS IN PLACE

ALL PAVEMENT IN THE CRIMSON LEAF DRIVE RIGHT-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

UNDERDRAINS SHALL BE INSTALLED, PER STANDARD DETAIL DRAWING 4.05 FOR 75' ON EACH SIDE OF THE LOW POINT, OR TO THE NEAREST CURB HIGH POINT. ALL UNDERDRAIN SHALL BE WRAPPED.

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 TYPICALLY 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.

CURB ON CUL DE SACS SHALL BE INSTALLED ACCORDING TO SDD 3.05.

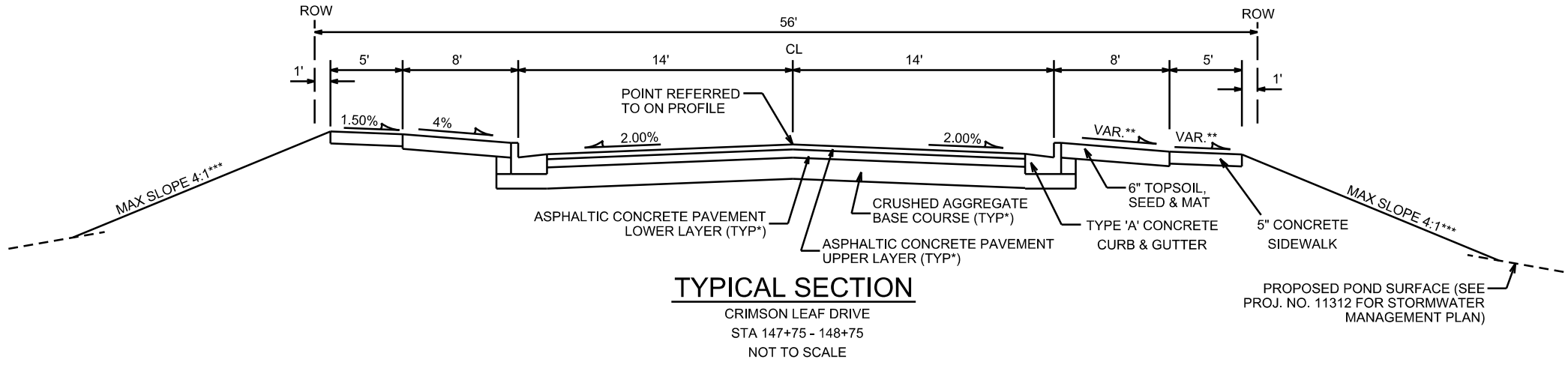
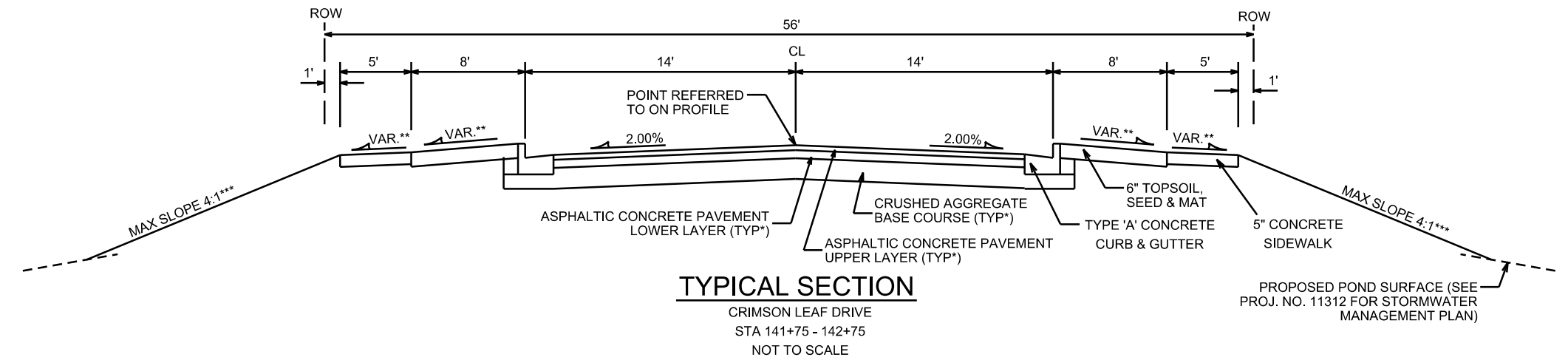
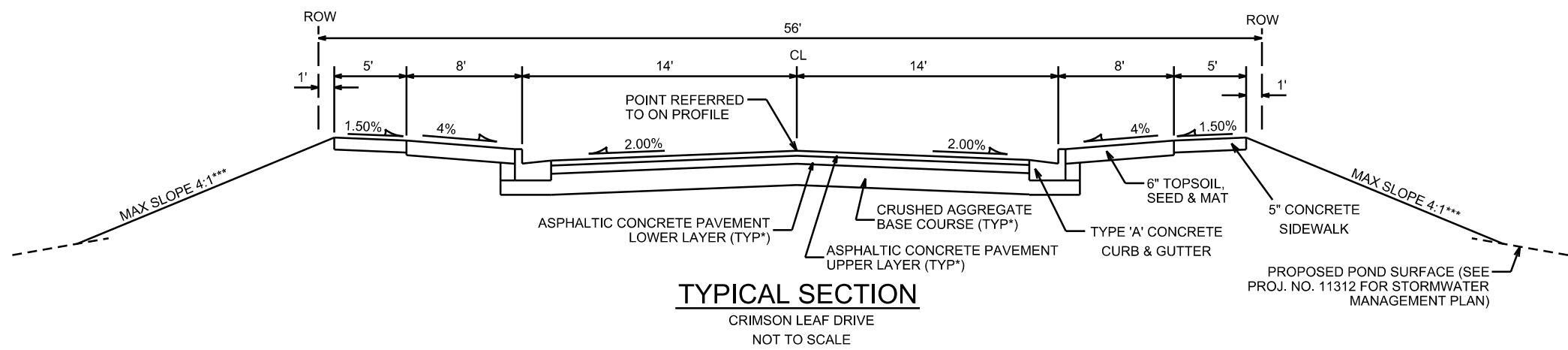
CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	—— G ——
STORM SEWER	—— ST ——
SANITARY SEWER	—— SAN ——
WATER	—— W ——
OVERHEAD ELECTRIC	—— OH ——
POWER POLE	⊕
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTES:

\* CRIMSON LEAF DR SHALL BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN †

\*\* SEE PLAN AND PROFILE SHEETS FOR OFFSET, ELEVATION, AND SLOPE DETAILS

† CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGGREGATE BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	THICKNESS
A	6"	6"	4 LT 58-28 S	1.75"	4 LT 58-28 S	1.75"
B	6"	6"	3 LT 58-28 S	2.50"	4 LT 58-28 S	2.00"
C	6"	6"	3 MT 58-28 S/H 3 HT 58-28 H	3.50"	4 MT 58-28 S/H 4 HT 58-28 H	2.00"

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

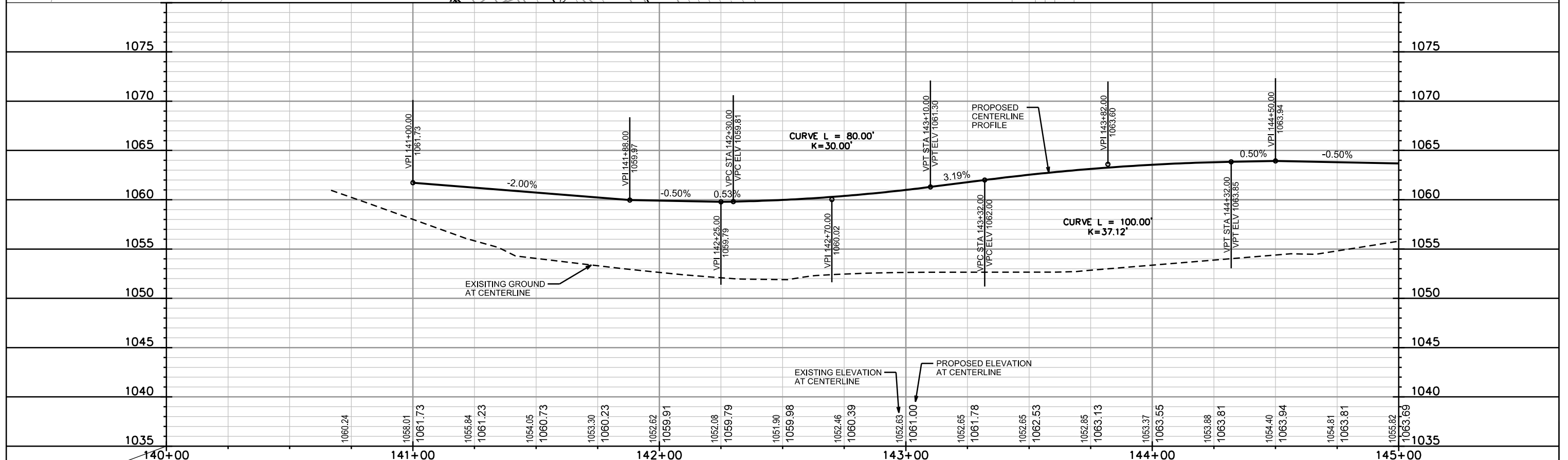
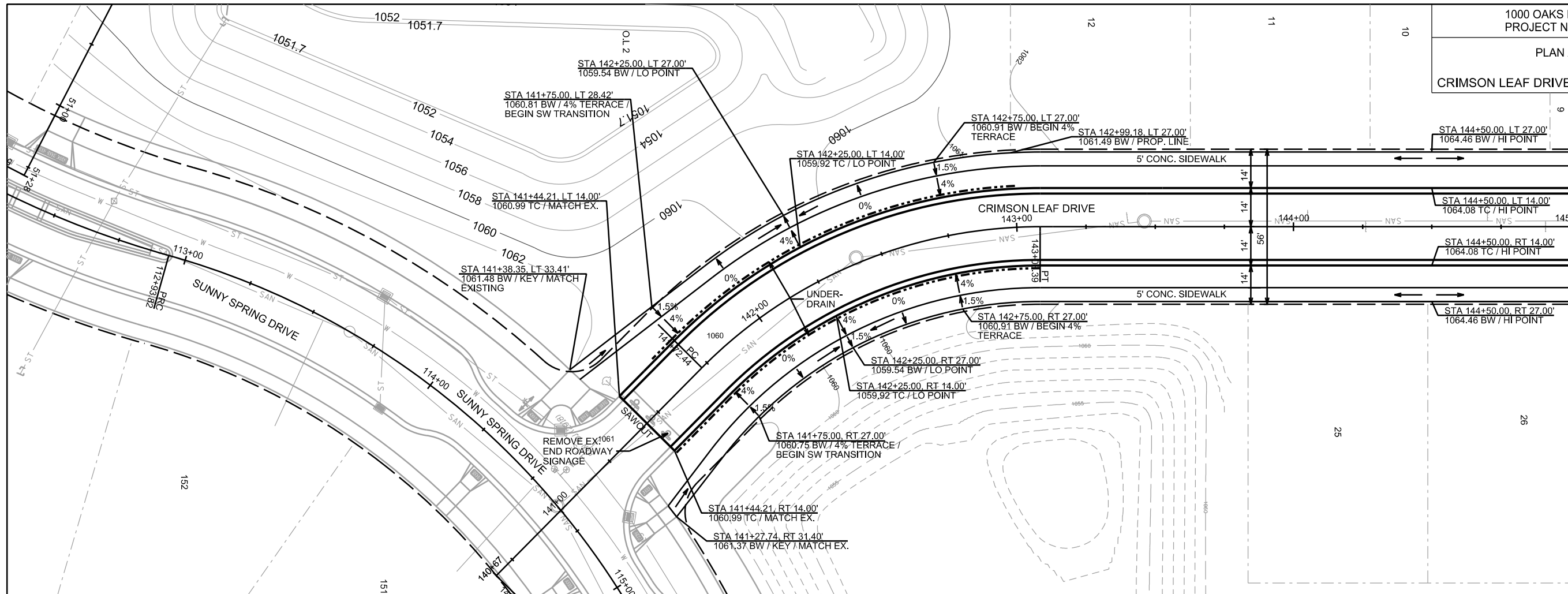
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

CRIMSON LEAF DRIVE CITY OF MADISON

MATCHLINE STA 145+00



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

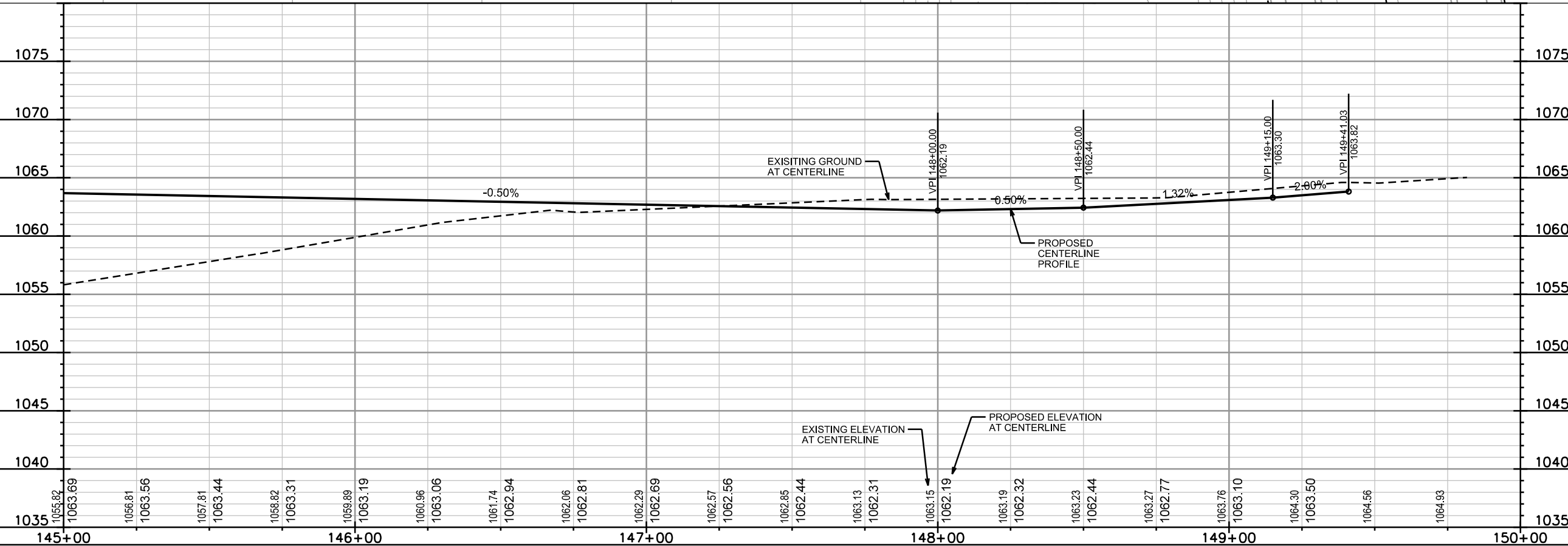
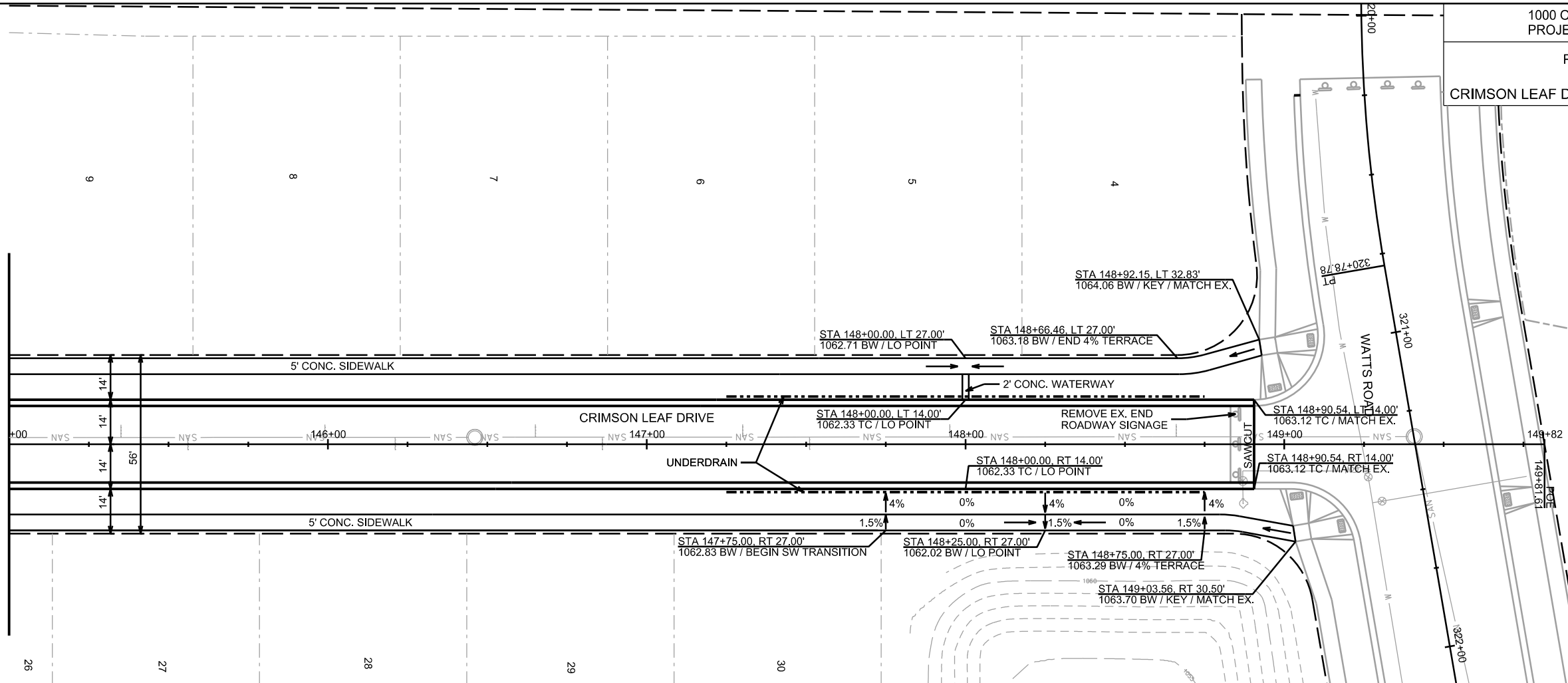
PLAN AND PROFILE

CRIMSON LEAF DRIVE CITY OF MADISON

PED & BIKE PATH EASEMENT  
DOC #4546990 (PLAT)

LOT 1  
1000 OAKS

MATCHLINE STA 145+00.00



PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

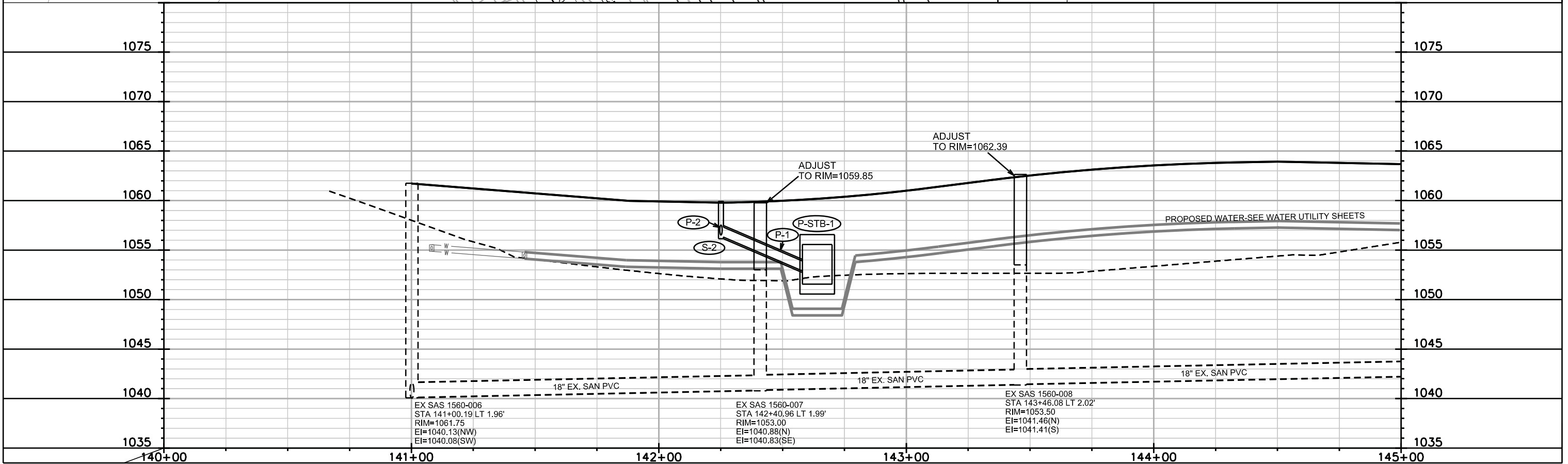
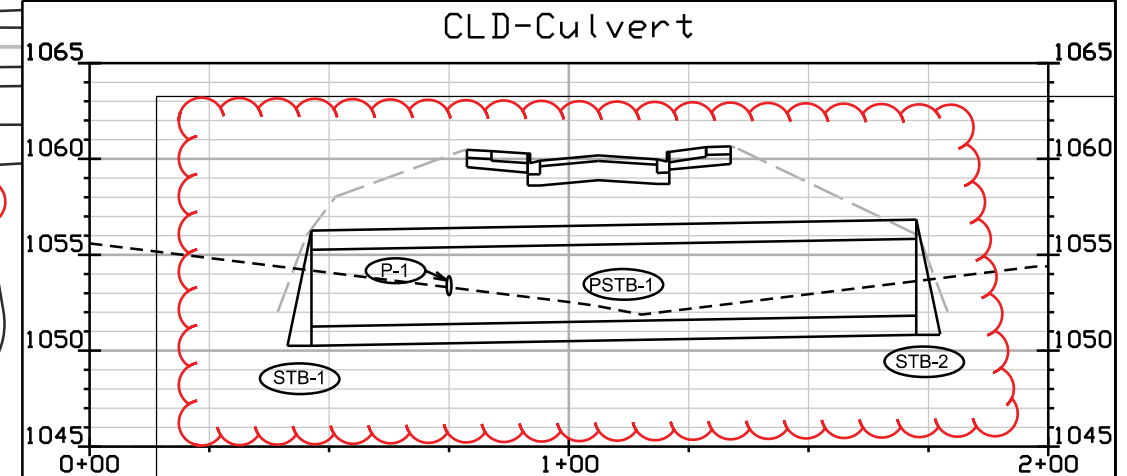
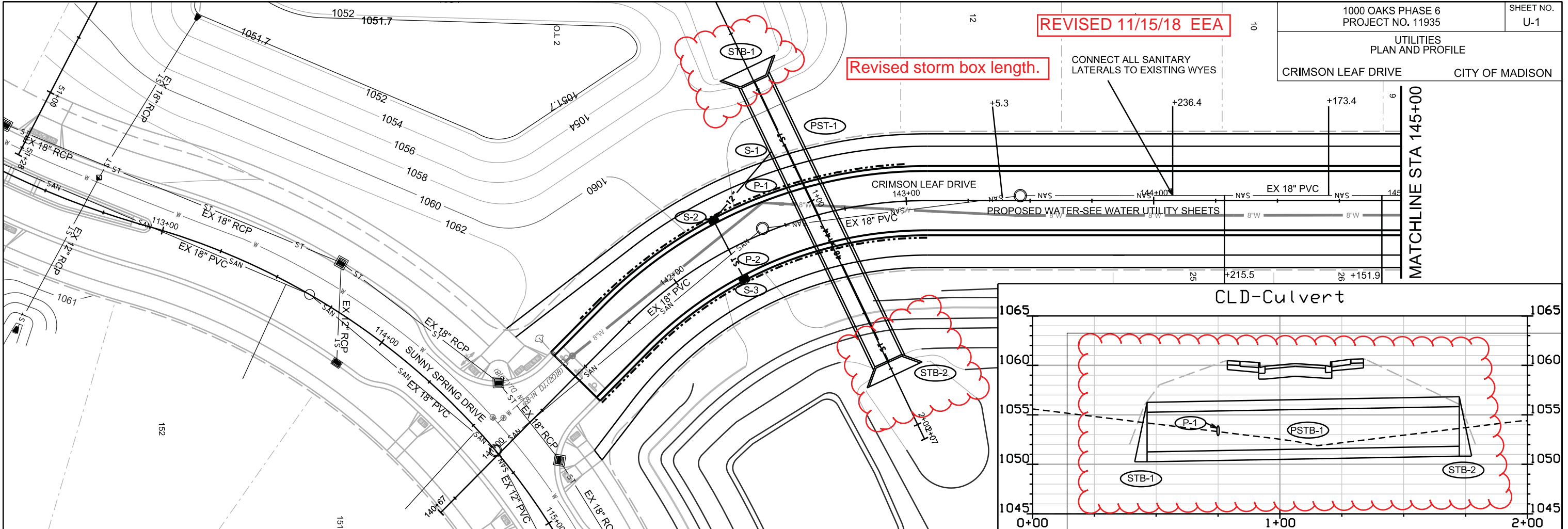
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 11/15/18 EEA

Revised storm box length.

CONNECT ALL SANITARY  
LATERALS TO EXISTING WYES

MATCHLINE STA 145+00



EX SAS 1560-006  
STA 141+00.19 LT 1.96'  
RIM=1061.75  
EI=1040.13(NW)  
EI=1040.08(SW)

EX SAS 1560-007  
STA 142+40.96 LT 1.99'  
RIM=1053.00  
EI=1040.88(N)  
EI=1040.83(SE)

EX SAS 1560-008  
STA 143+46.08 LT 2.02'  
RIM=1053.50  
EI=1041.46(N)  
EI=1041.41(S)

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

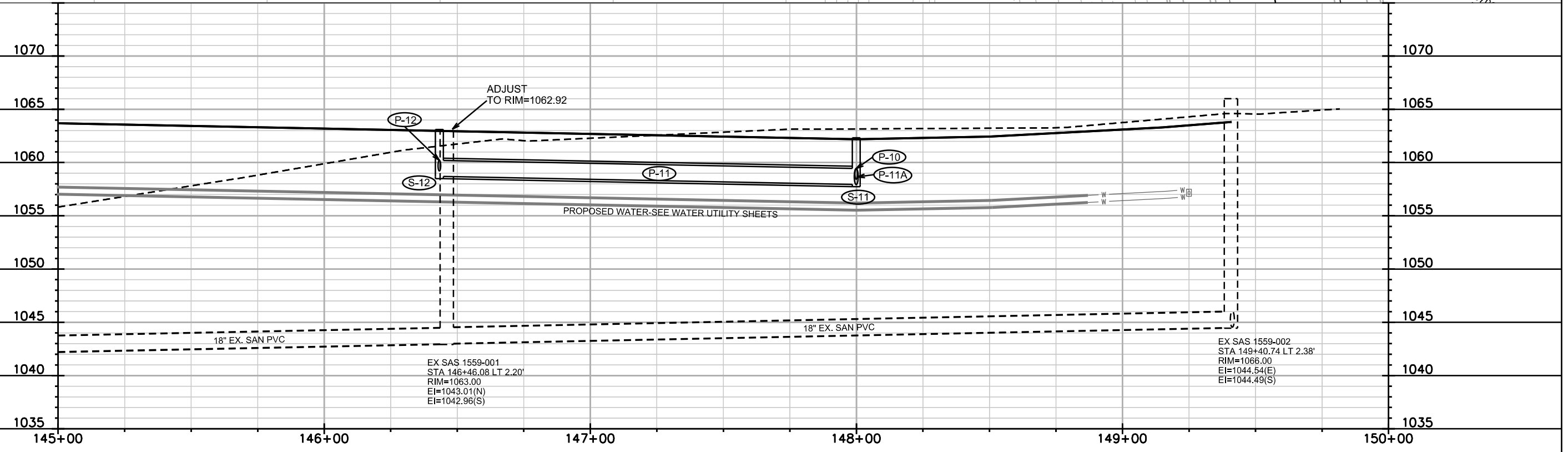
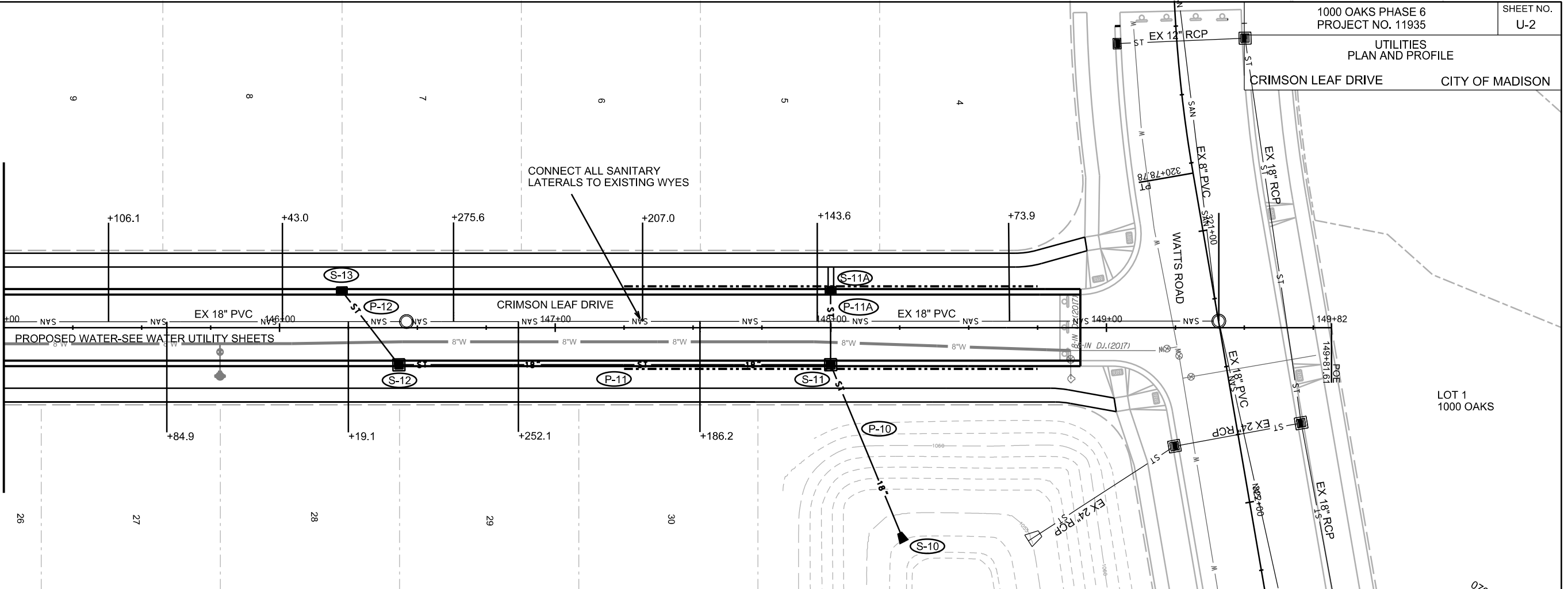
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITIES  
PLAN AND PROFILE

CRIMSON LEAF DRIVE CITY OF MADISON

MATCHLINE STA 145+00.00



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# STORM SEWER SCHEDULE

\* REVISED 11/15/18 EEA  
 ++ REVISED 12/3/18 EEA

FIRST ADD TO 1000 OAKS PHASE 6 PROJECT NO. 11935	SHEET NO. U-STM
STORM SEWER SCHEDULE	
CITY OF MADISON	

## PROPOSED STORM STRUCTURES

## PROPOSED STORM PIPES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES	PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>CRIMSON LEAF DR</b>																		
S-2	142+25.00	LT-13.50	H INLET	1059.92	1056.32	3.60	LP; W/ R-3067-7004-VB	P-1	S-1	S-2	1052.89	1056.32	36	35	9.80%	12"	TYPE II	-
S-3	142+25.00	RT-13.50	H INLET	1059.92	1056.52	3.40	LP; W/ R-3067-7004-VB	P-2	S-2	S-3	1056.32	1056.52	27	25	0.80%	12"	TYPE I	-
S-10	148+26.63	RT-77.84	18" RCP APRON END	-	1054.00	-	W/ GATE	P-10	S-10	S-11	1054.00	1057.93	70	68	5.78%	18"	TYPE II	-
S-11	148+00.00	RT-13.50	3X3 SAS	1062.33	1057.93	4.40	LP; W/ R-3067-7004-VB	P-11	S-11	S-12	1057.93	1058.71	157	154	0.51%	18"	TYPE II	-
S-11A	148+00.00	LT-13.50	H INLET	1062.33	1058.73	3.60	LP; W/ R-3067-7004-VB	P-11A	S-11	S-11A	1058.43	1058.73	27	24	1.25%	12"	TYPE I	-
S-12	146+43.29	RT-13.50	3X3 SAS	1063.11	1058.71	4.40	W/ R-3067-7004	P-12	S-12	S-13	1059.21	1059.62	34	31	1.32%	12"	TYPE I	-
S-13	146+22.65	LT-13.50	H INLET	1063.22	1059.62	3.60	W/ R-3067-7004											
<b>STORM CULVERT</b>																		
S-1	0+75.00	RT-6.00	TAP	-	1052.89	-	MATCH SPRING LINES	* PSTB-1	STB-1	STB-2	1051.26	1051.83	131	131	0.44%	144"X48"	BOX RCP	-
++*	STB-1	0+40.55	CL	12'X4' BOX END	-	1051.26	-	<del>W/ GATE;</del>	(1)									
++*	STB-2	1+77.98	CL	12'X4' BOX END	-	1051.83	-	<del>W/ GATE;</del>	(1)									

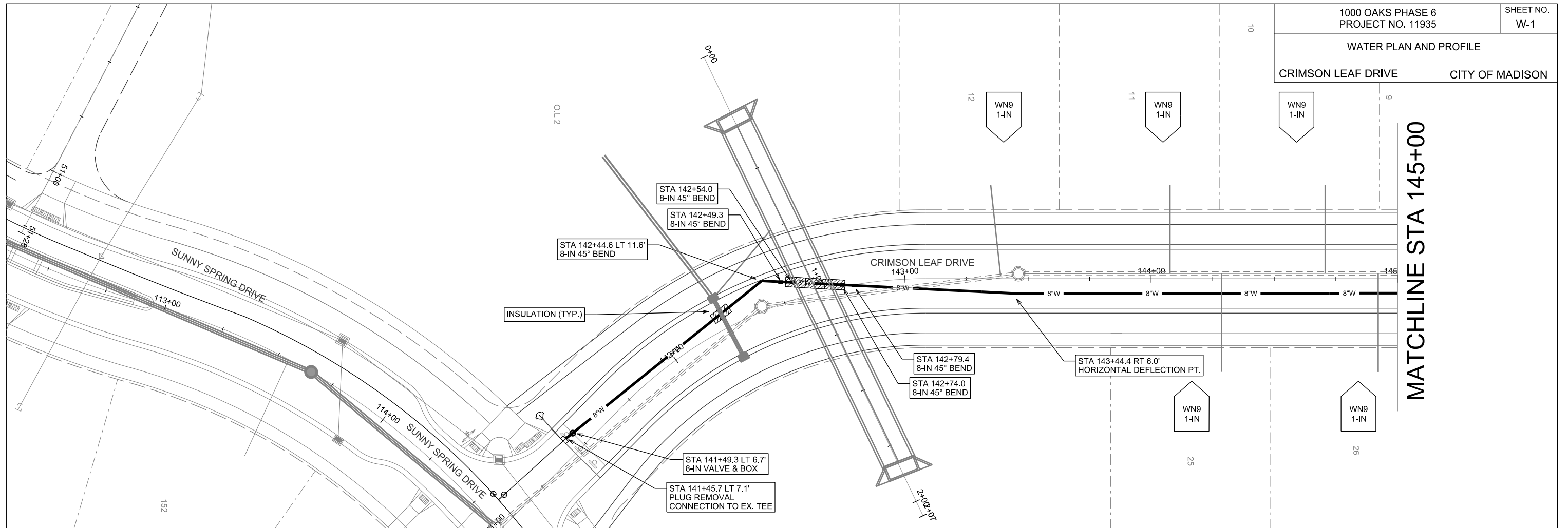
## SPECIFIC NOTES

++ (1) CONSTRUCT WINGWALL OUTLET PER SDD 5.5.1; ~~GATE PER SDD 5.6.3~~

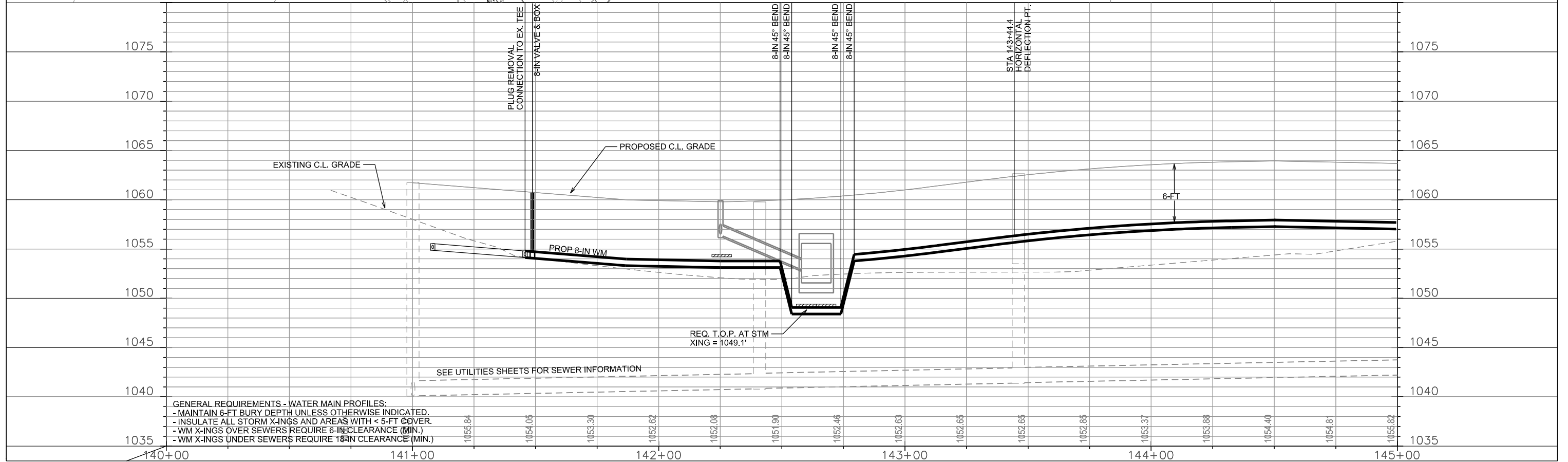
## STANDARD NOTES:

- 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 ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.





MATCHLINE STA 145+00



GENERAL REQUIREMENTS - WATER MAIN PROFILES:  
 - MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.  
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.  
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)  
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

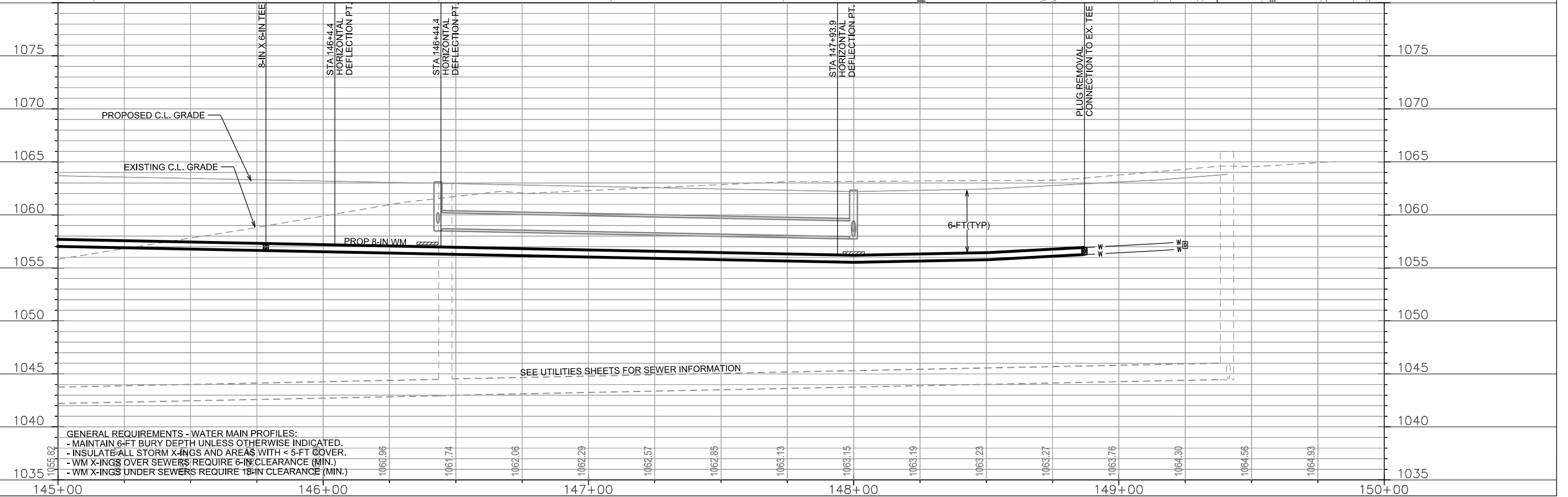
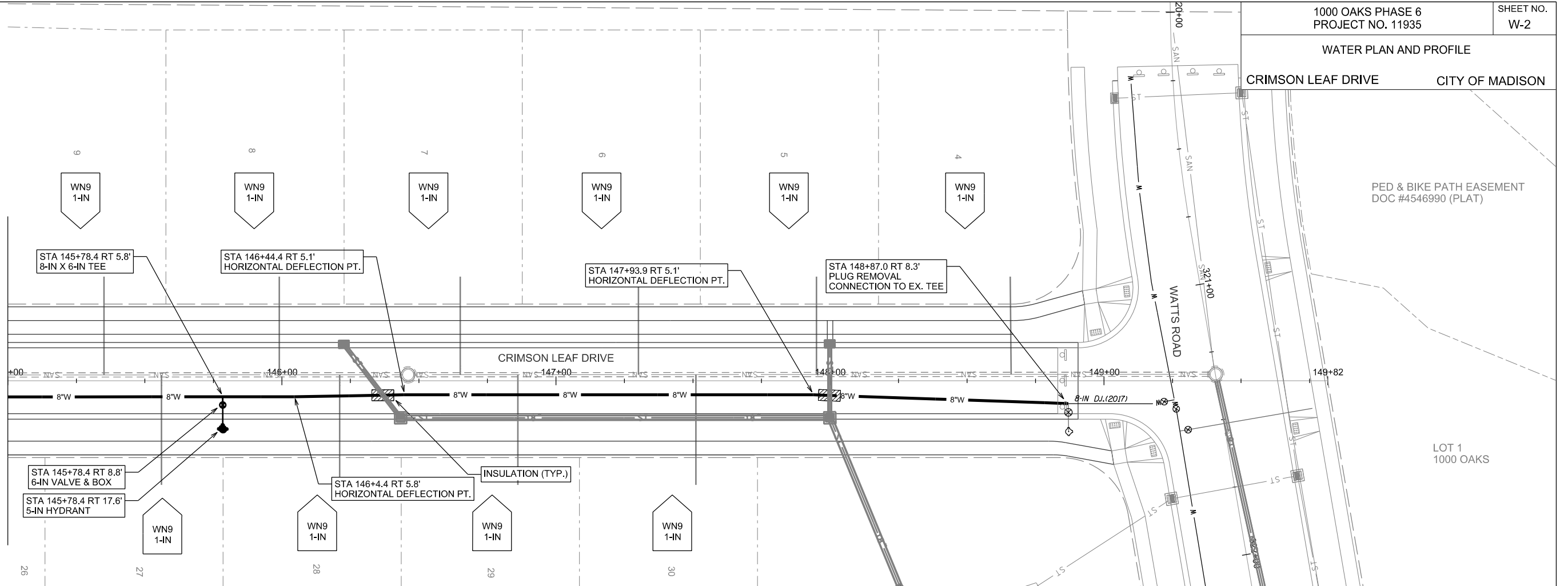
WATER PLAN AND PROFILE

CRIMSON LEAF DRIVE CITY OF MADISON

PED & BIKE PATH EASEMENT  
DOC #4546990 (PLAT)

LOT 1  
1000 OAKS

MATCHLINE STA 145+00.00



GENERAL REQUIREMENTS - WATER MAIN PROFILES:  
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 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.  
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)  
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

**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.

- 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
- WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

**ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

*\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

- |                      |                                   |
|----------------------|-----------------------------------|
| 20-FT - 6-IN PIPE    | 1 - 5-IN HYDRANT                  |
| 760-FT - 8-IN PIPE   | 48-FT - 2-IN STYROFOAM INSULATION |
| 1 - 6-IN VALVE & BOX | 880-FT - POLY WRAP                |
| 1 - 8-IN VALVE & BOX | 1-IN TO 2-IN COPPER (AS REQ'D)    |
| 1 - 8-IN X 6-IN TEE  |                                   |
| 5 - 8-IN 45° BEND    |                                   |

**ESTIMATE OF MATERIALS SALVAGED:**

*\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

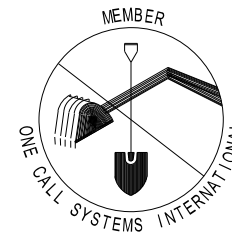
**ESTIMATE OF MATERIALS REUSED:**

*\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

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.

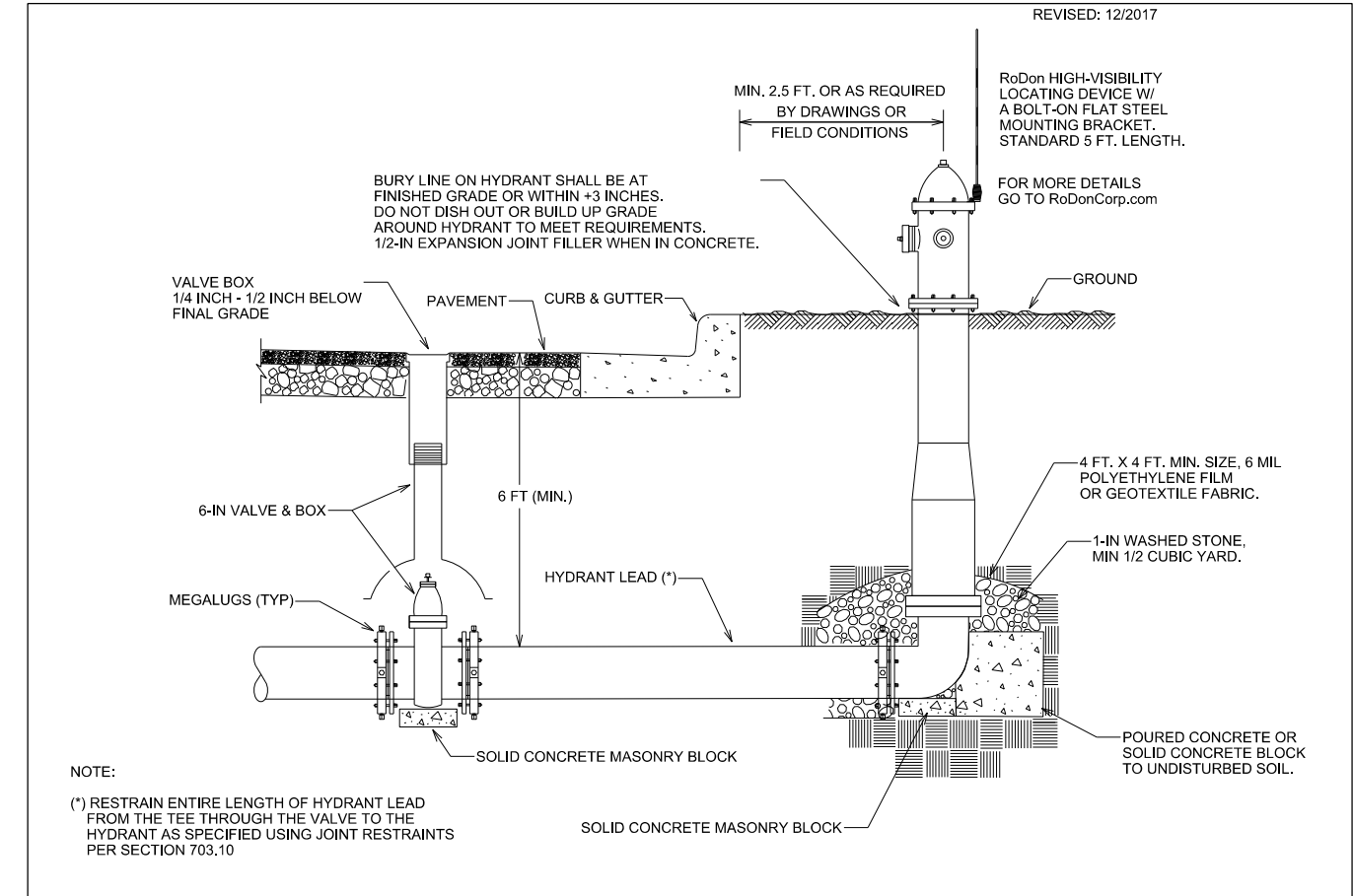


**DISCLAIMER NOTE:**  
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

**PART VII - WATER MAINS AND SERVICE LATERALS**

**DETAIL DRAWING NO. 7.04**

REVISED: 12/2017



CITY OF MADISON  
WATER UTILITY

NOT TO SCALE

TYPICAL HYDRANT INSTALLATION

City of Madison Standard Specifications for Public Works Construction