

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

LANDMARK PLACE CUL-DE-SAC CONSTR. 2017

CITY PROJECT NO. 11414

CONTRACT NO. 7753

PUBLIC IMPROVEMENT PROJECT APPROVED

AUGUST 2, 2016

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

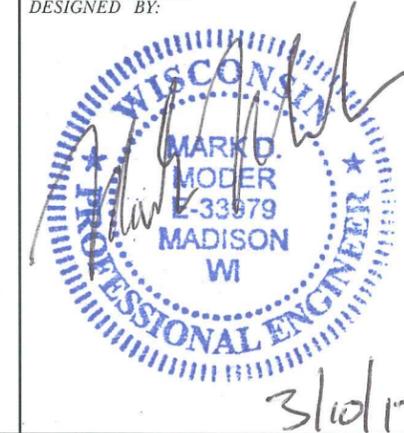
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

[Signature] 3/10/17
City Engineer Date

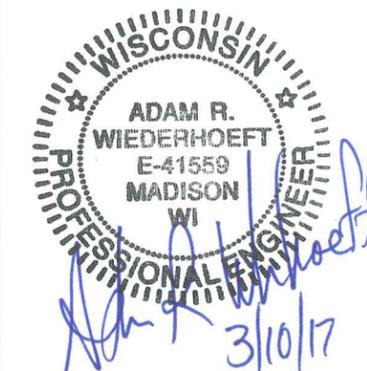
STREET
DESIGNED BY:



SANITARY SEWER
DESIGNED BY:



WATER MAIN
DESIGNED BY:



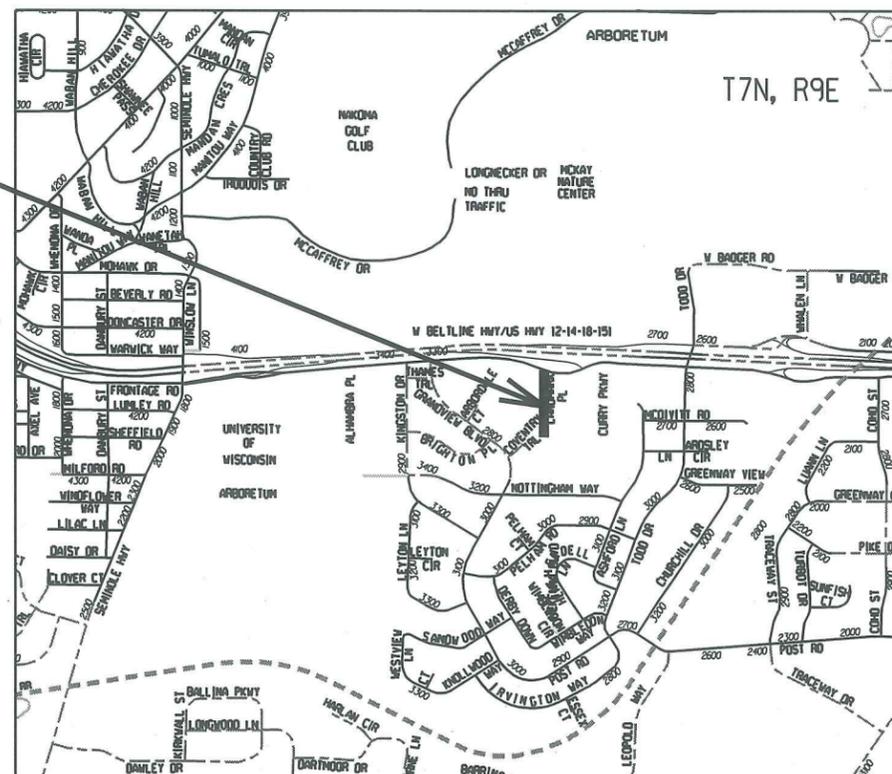
STORM SEWER
DESIGNED BY:



INDEX OF SHEETS

SHEET NO.	TITLE
1	NOTES & TYPICAL SECTION
DI-D2	STREET PLAN & PROFILE
P1	SEWER PLAN & PROFILE
U1	SEWER PLAN
U2	SEWER SCHEDULE
U3	WATER PLAN & PROFILE
W1	

PROJECT
LOCATION



CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	G
STORM SEWER	ST
SANITARY SEWER	SAN
WATER	W
OVERHEAD ELECTRIC	OH
POWER POLE	□

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%.

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CONTRACTOR/DEVELOPER SHALL SUBMIT A TRAFFIC CONTROL PLAN TO CITY TRAFFIC ENGINEERING AT LEAST 10 WORKING DAYS PRIOR TO THE START OF WORK. WORK WITHIN THE RIGHT-OF-WAY SHALL NOT BEGIN UNTIL THE TRAFFIC CONTROL PLAN IS APPROVED.

ANY PAVEMENT MARKINGS THAT ARE REMOVED OR DAMAGED SHALL BE REPLACED BY THE DEVELOPER/CONTRACTOR AS DIRECTED BY CITY TRAFFIC ENGINEERING.

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.

COORDINATE WITH CITY ENGINEERING A MINIMUM OF 21 DAYS IN ADVANCE FOR INSTALLATION OF ASPHALT PAVEMENT FOLLOWING CONSTRUCTION OF NEW CURB & GUTTER AND BASE COURSE.

TRAFFIC CONTROL REQUIREMENTS RELATED TO THIS PROJECT:

MAINTAIN ACCESS TO COMMERICAL DRIVEWAY BY CONSTRUCTING ONE-HALF AT A TIME.

ALL PAVEMENT WITHIN THE LANDMARK PLACE RIGHT-OF-WAY SHALL BE TYPE B PAVEMENT.

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

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 0.4% 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 CURB & GUTTER FLANGE UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE CURB & GUTTER FLANGE 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 PUBLIC RIGHT-OF-WAY 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.

DAMAGE TO ANY EXISTING CURB, PAVEMENT, SIDEWALK, ETC. THAT IS TO REMAIN SHALL BE REPAIRED BY THE DEVELOPER/CONTRACTOR AS DIRECTED BY THE ENGINEER.

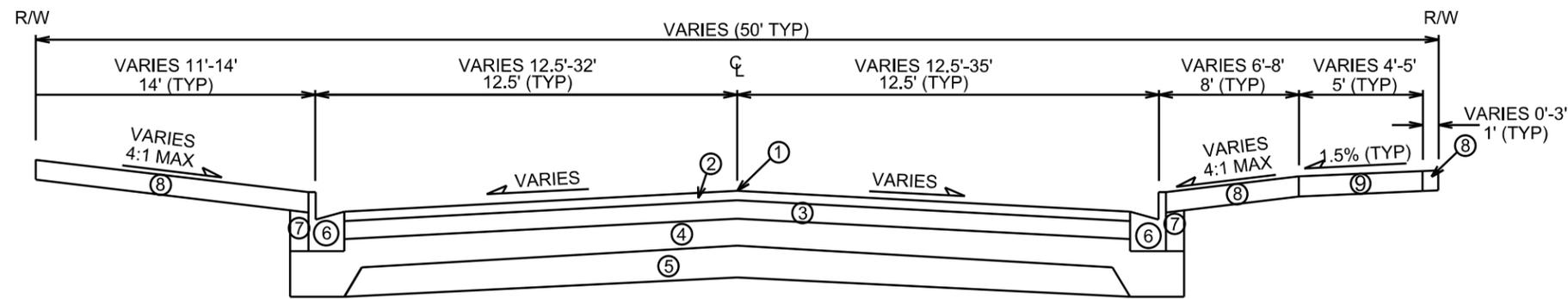
DEVELOPER/CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO ADJUST STRUCTURES, MANHOLES, HANDHOLES, ETC. AS NEEDED TO MATCH THE GRADE OF THE NEW PAVEMENT.

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- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER, TYPE E-1
- ③ 2 1/4" BITUMINOUS LOWER LAYER, TYPE E-1
- ④ 4" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' CONCRETE CURB & GUTTER OR TYPE 'A' MOUNTABLE CURB & GUTTER (SEE PLAN/PROFILE SHEET FOR LOCATIONS)
- ⑦ FILL, INCIDENTAL
- ⑧ 4" TOPSOIL AND SOD
- ⑨ 5" CONCRETE SIDEWALK

NOTE:
 - SEE PLAN/PROFILE SHEET FOR CURB FLANGE ELEVATIONS.
 - TYPICAL SECTION NOT TO SCALE

TYPICAL FINISHED SECTION
 LANDMARK PLACE

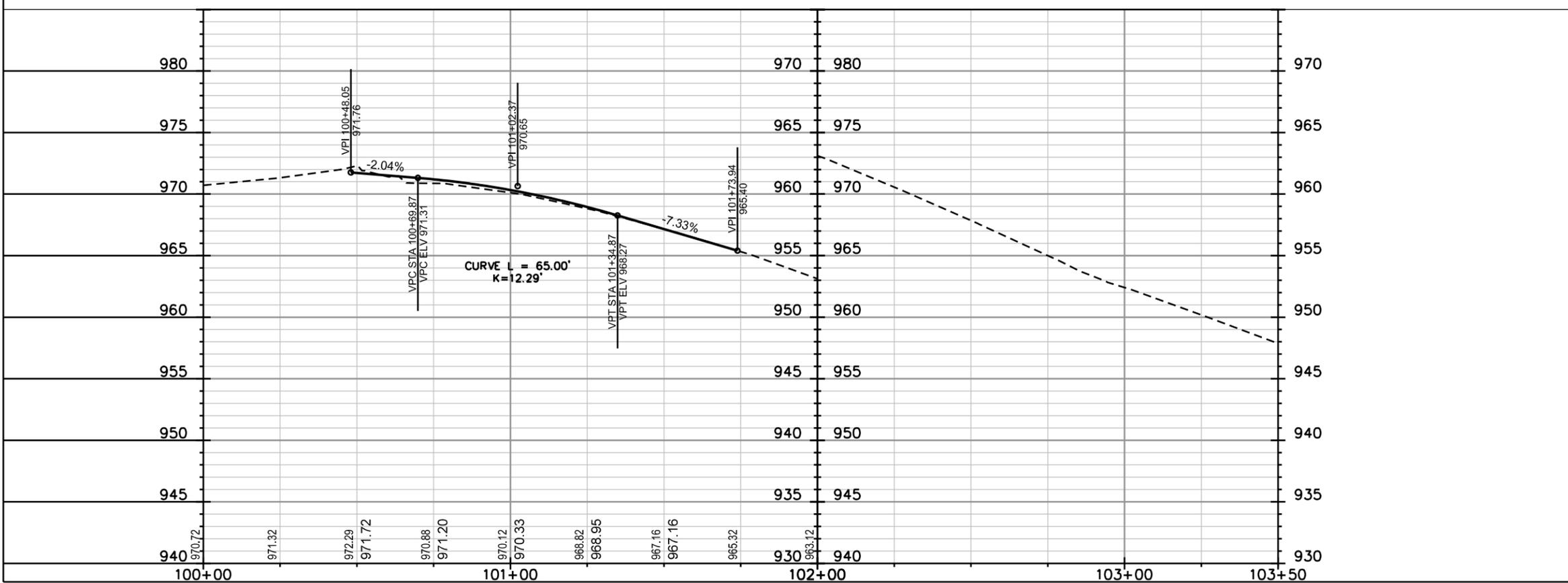
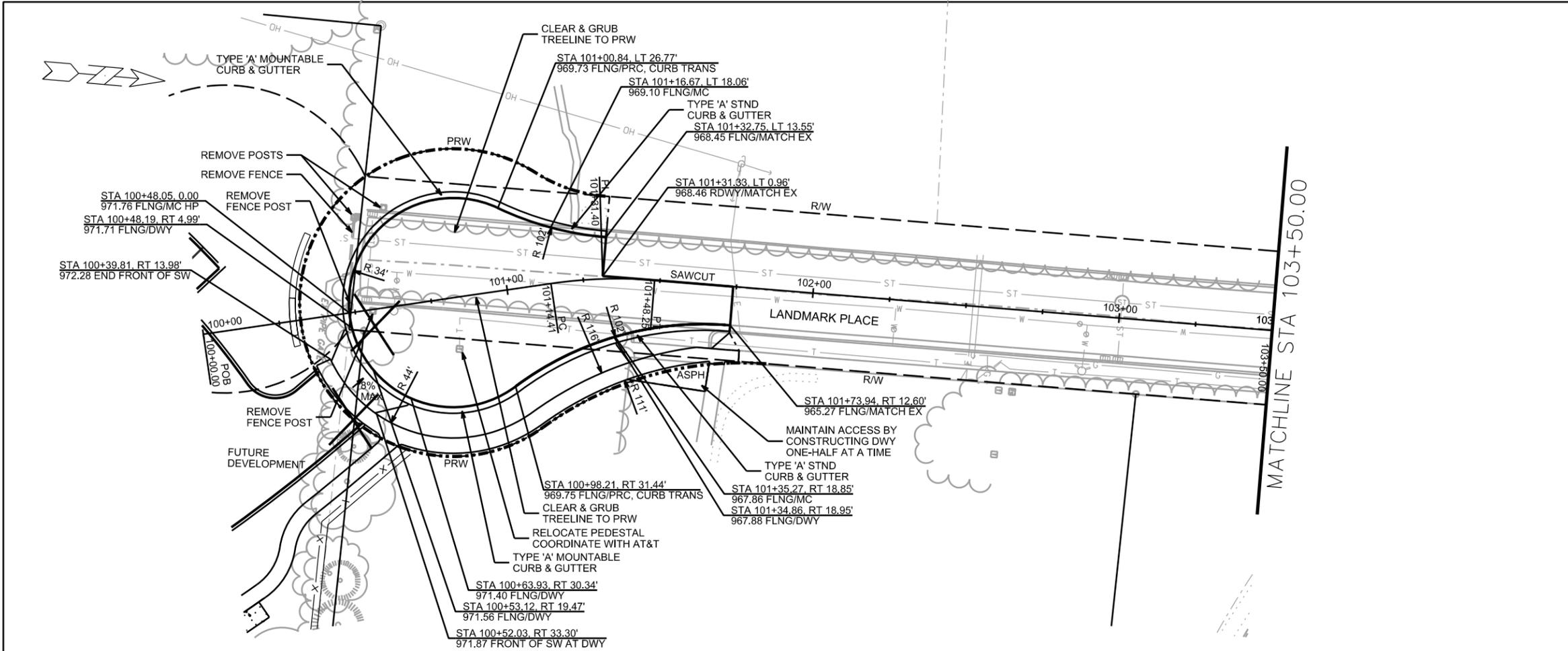
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PLAN AND PROFILE
 LANDMARK PLACE CITY OF MADISON

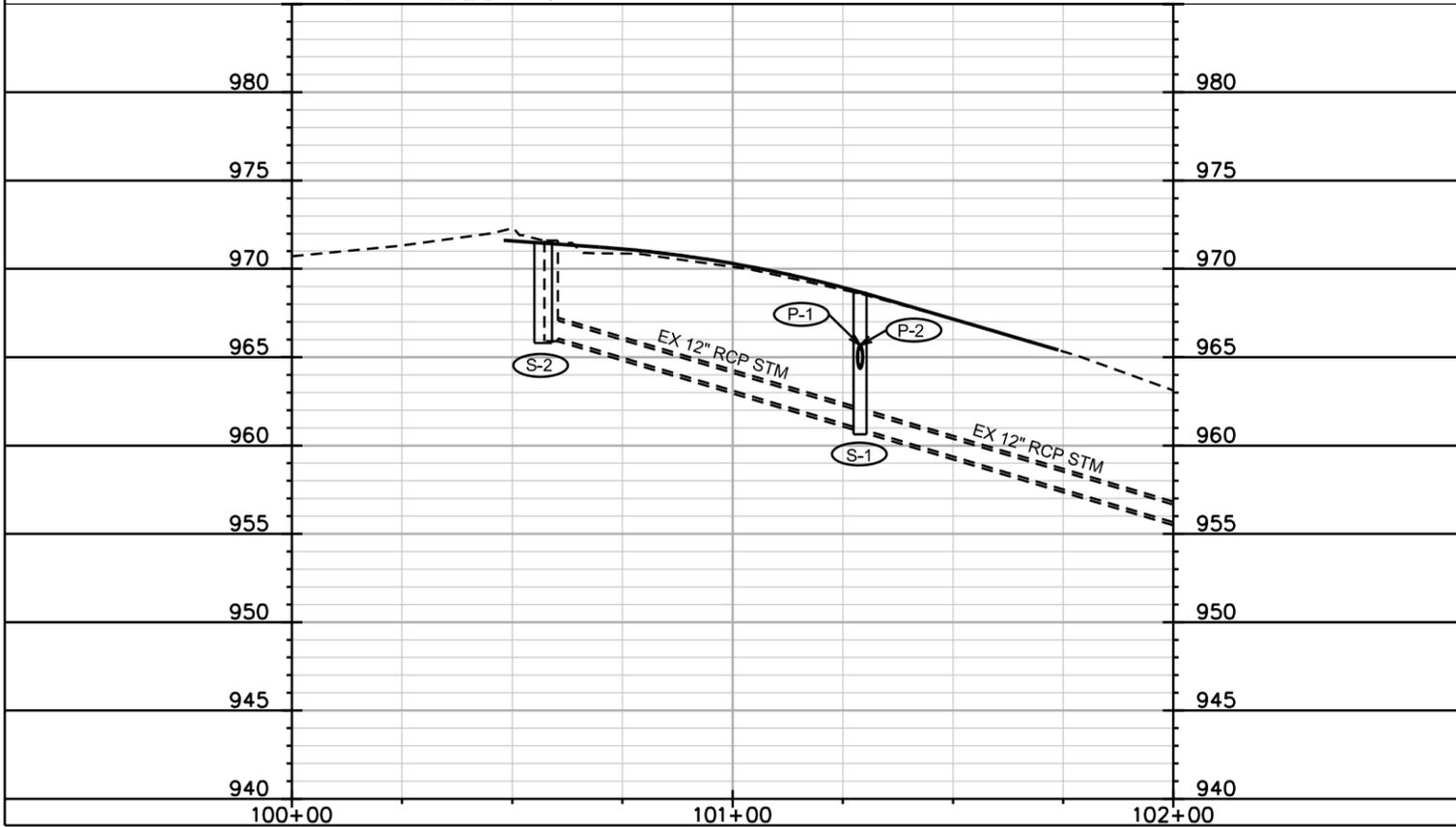
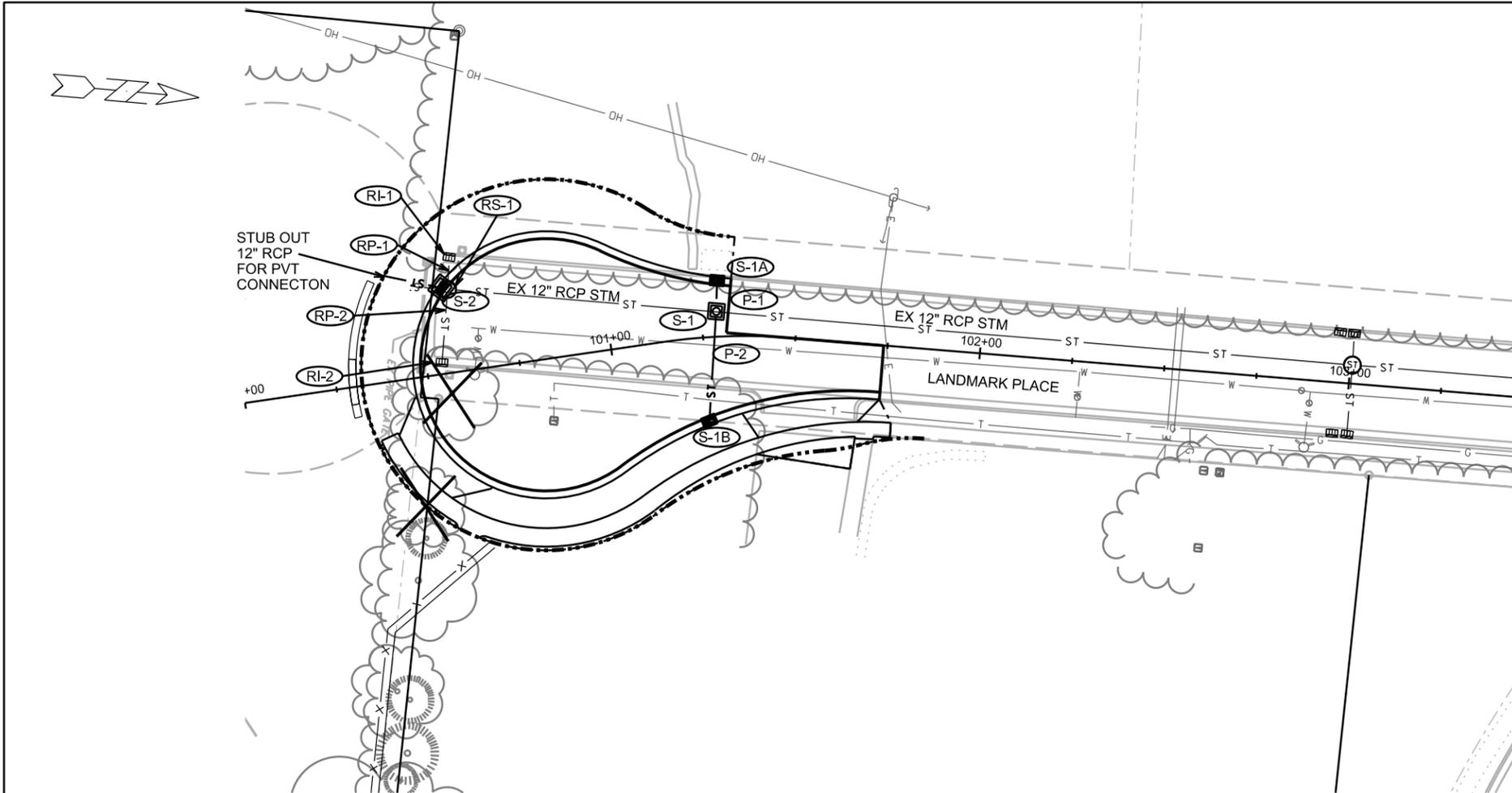


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PLOT SCALE: _____

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SAS#1
RIM = 956.00
EI = 946.90 (N)
EI = 947.00 (SW)
NORTHING (Y) = 809663.8992
EASTING (X) = 467638.7623

EX 8" PVC SAN

PROVIDE INTERNAL
CHIMNEY SEAL

4"X4'X8'
STYROFOAM INSULATION
(TYP)

PROPOSED POND
(SEE DEVELOPER'S PLAN)

REMOVE
EX 8" PVC SAN

REMOVE
EX SAS
4267-007

90'-8" PVC SAN LATERAL @ 1.11%

EI= 948.00

PROPOSED
BUILDING

SCALE 1"=15'



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STORM SEWER SCHEDULE

LANDMARK PLACE CUL-DE-SAC CONSTR.	SHEET NO.
PROJECT NO. 11414	U3
STORM SEWER SCHEDULE	
LANDMARK PL	CITY OF MADISON

PROPOSED STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	101+28.92	LT-6.81	3X3 SAS	968.64	960.63	8.01	W/ R-1550; (1)
S-1A	101+29.46	LT-15.12	H INLET	968.95	964.96	3.99	W/ R-3067-7004-VB
S-1B	101+25.06	RT-22.58	H INLET	968.72	964.69	4.03	W/ R-3067-7004-VB
S-2	100+57.05	LT-23.00	4X4 SAS	971.30	966.30	5.00	W/ R-3067-7009; (2)

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	S-1	S-1A	964.51	964.96	8.00	6.00	7.74%	12"	RCP	-
P-2	S-1	S-1B	964.51	964.69	30.0	27.0	0.67%	12"	RCP	-

REMOVE STORM STRUCTURES

STRUCTURE NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RS-1	AS 4267-005	100+58.57	LT-22.42	4X4 SAS	-
RI-1	IN 4167-002	100+60.43	LT-31.69	H INLET	-
RI-2	IN 4267-006	100+54.07	LT-2.39	H INLET	-

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	RS-1	RI-1	7	12"	RCP	Y	-
RP-2	RS-1	RI-2	16	12"	RCP	Y	-

NOTE: PLAN LENGTH IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

SPECIFIC NOTES:

- CONNECT EXISTING 12" PIPES TO NORTH AND SOUTH
- CONNECT EXISTING 12" PIPE TO NORTH; BOX OUT TO SOUTH FOR PRIVATE CONNECTION

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
- 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, OR FAX SHOP DRAWINGS TO (608) 264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM

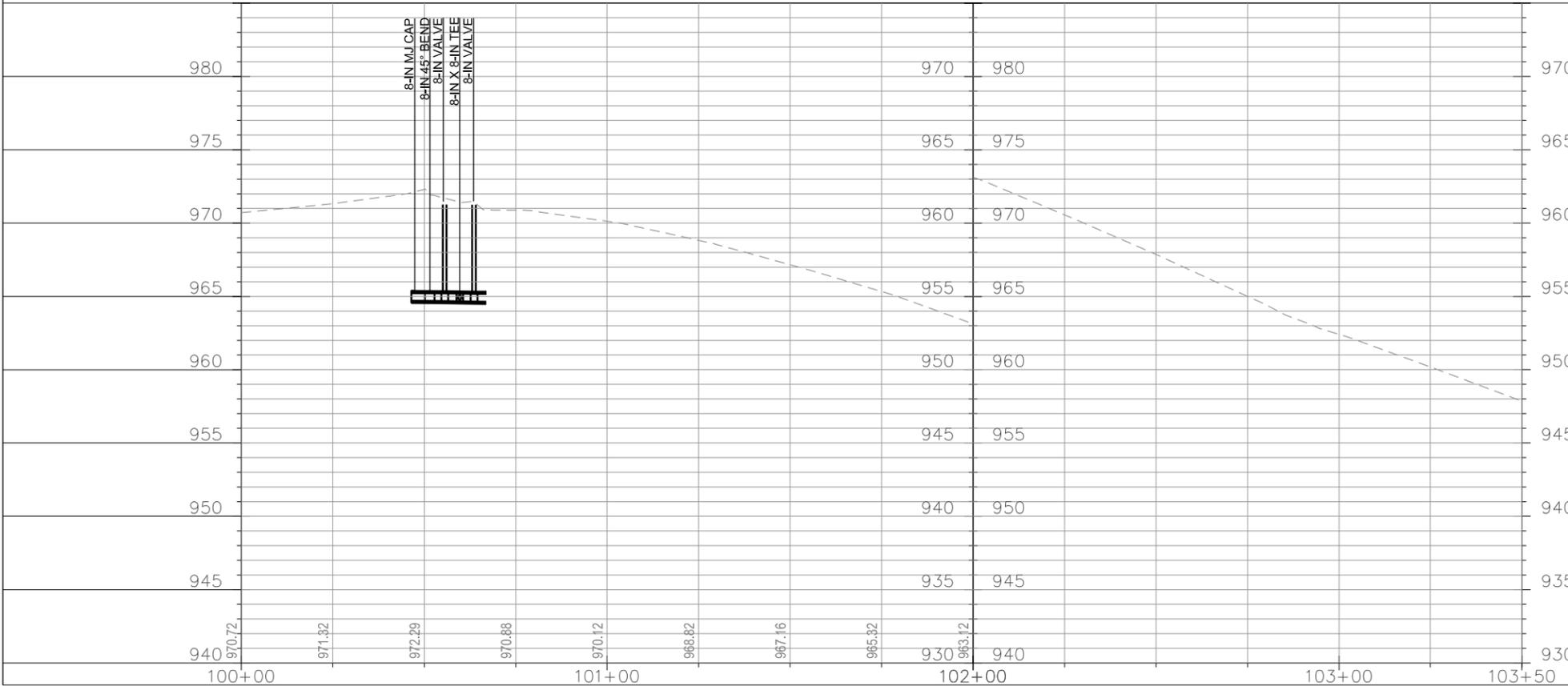
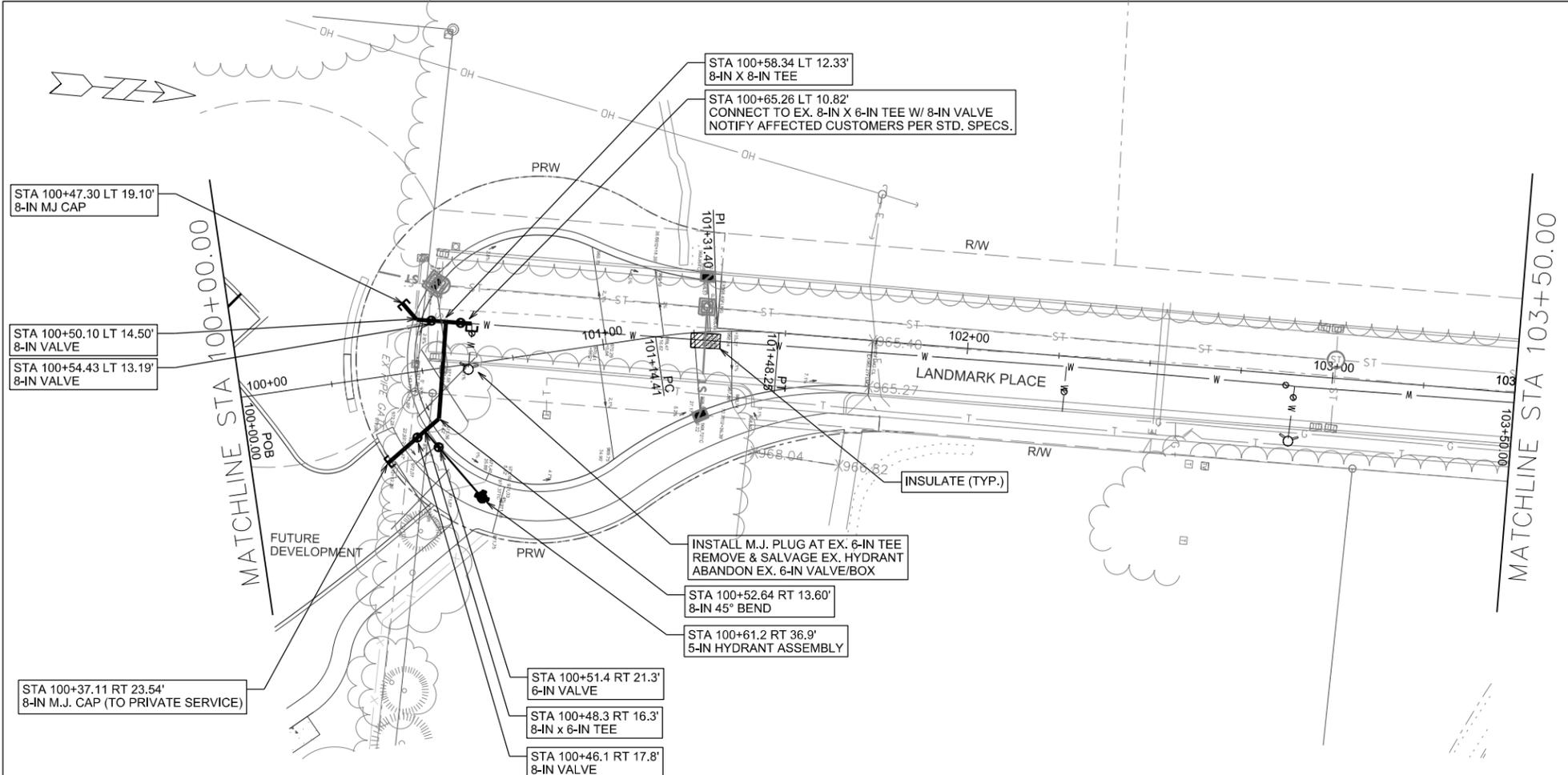
WATER PLAN AND PROFILE
 LANDMARK PLACE CITY OF MADISON

ESTIMATE OF MATERIALS:
 6-FT - 6-IN D.I. WATER MAIN
 65-FT - 8-IN D.I. WATER MAIN
 80-FT - 8 MIL POLYWRAP
 (1) - HYDRANT ASSEMBLY
 (3) - 8-IN VALVES/VALVE BOXES
 (2) - 8-IN 45° BEND
 (1) - 8-IN X 8-IN TEE
 (1) - 8-IN X 6-IN REDUCER
 (1) - 8-IN M.J. CAP
 (1) - 6-IN M.J. PLUG
 (1) - 8-FT X 4-FT INSULATION BOARD

ESTIMATE OF MATERIALS SALVAGED:
 (1) 5-IN HYDRANT

WATER MAIN EXTENSION DESIGNER:
 ADAM WIEDERHOEFT, PE
 MADISON WATER UTILITY
 awiederhoft@madisonwater.org
 608-266-9121

COORDINATE CONSTRUCTION INSPECTION:
 JEFF BELSHAW, CONSTRUCTION SUPERVISOR
 MADISON WATER UTILITY
 jbelshaw@madisonwater.org
 608-261-9835



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