CITY OF MADISON

CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

Madison, Wisconsin

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

CITY PROJECT NO. 14343
CONTRACT NO. 9217

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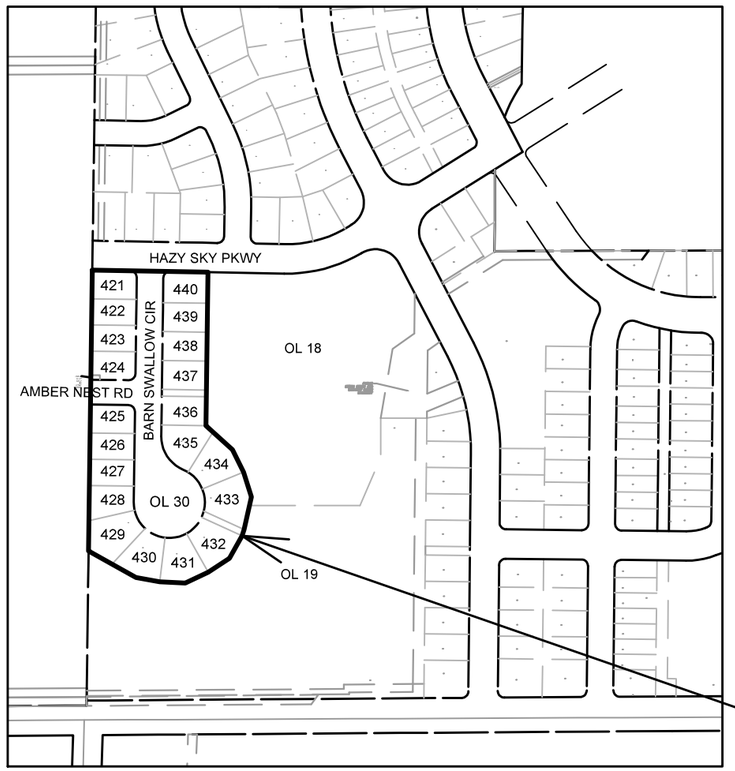
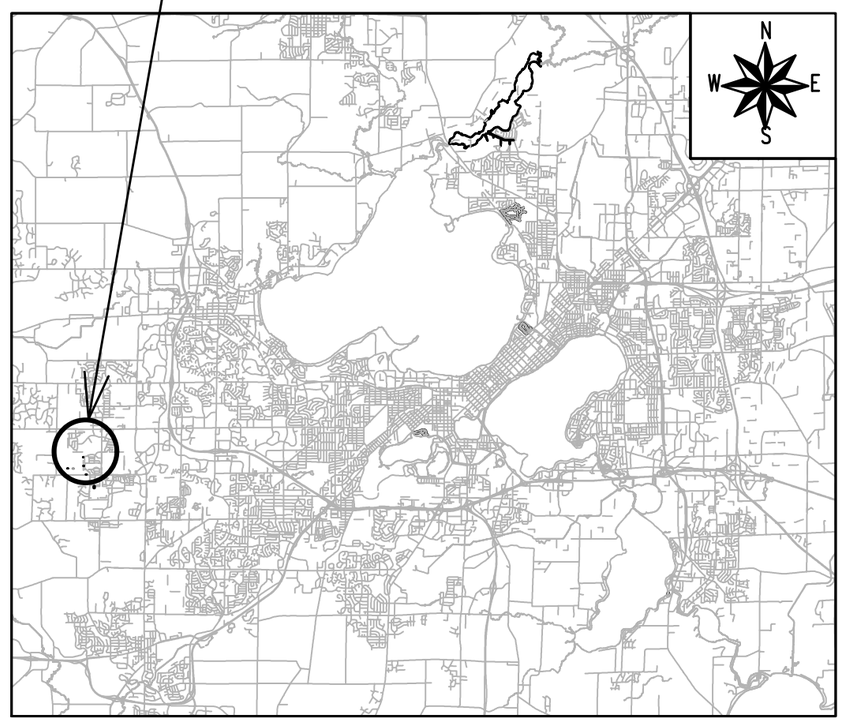


PROJECT LOCATION



PHASE LIMITS

PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE: DECEMBER 6, 2022

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

City Engineer — Date: Apr 12, 2023

PARK GRADING DESIGNED BY:

WISCONSIN — PHILIP D GAEBLER E-44568 MADISON WI — PROFESSIONAL ENGINEER

Apr 12, 2023

STREET DESIGNED BY:

WISCONSIN — FADI B EL MUSA GONZALEZ E-47872 MADISON WI — PROFESSIONAL ENGINEER

Apr 12, 2023

STREET GEOMETRY DESIGNED BY:

WISCONSIN — SEAN D MALLOY E-48326 MADISON WI — PROFESSIONAL ENGINEER

Apr 12, 2023

STORM SEWER DESIGNED BY:

WISCONSIN — JANET SCHMIDT E-34681 MADISON WI — PROFESSIONAL ENGINEER

Apr 13, 2023

WATER DESIGNED BY:

WISCONSIN — ADAM R. WIEDERHOEFT E-41559 MADISON WI — PROFESSIONAL ENGINEER

Apr 12, 2023

SANITARY SEWER DESIGNED BY:

WISCONSIN — MARK D. MODER E-33979 MADISON WI — PROFESSIONAL ENGINEER

Apr 12, 2023

ALL PROPOSED STREET TREE REMOVALS WITHIN THE RIGHT OF WAY SHALL BE REVIEWED BY CITY FORESTRY BEFORE THE PLAN COMMISSION MEETING. STREET TREE REMOVALS REQUIRE APPROVAL AND A TREE REMOVAL PERMIT ISSUED BY CITY FORESTRY. ANY STREET TREE REMOVALS REQUESTED AFTER THE DEVELOPMENT PLAN IS APPROVED BY THE PLAN COMMISSION OR THE BOARD OF PUBLIC WORKS AND CITY FORESTRY WILL REQUIRE A MINIMUM OF A 72-HOUR REVIEW PERIOD WHICH SHALL INCLUDE THE NOTIFICATION OF THE ALDERPERSON WITHIN WHO'S DISTRICT IS AFFECTED BY THE STREET TREE REMOVAL(S) PRIOR TO A TREE REMOVAL PERMIT BEING ISSUED.

AS DEFINED BY THE SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION: NO EXCAVATION IS PERMITTED WITHIN 5 FEET OF THE TRUNK OF THE STREET TREE OR WHEN CUTTING ROOTS OVER 3 INCHES IN DIAMETER. IF EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT MADISON CITY FORESTRY (266-4816) PRIOR TO EXCAVATION. CITY OF MADISON FORESTRY PERSONNEL SHALL ASSESS THE IMPACT TO THE TREE AND TO ITS ROOT SYSTEM PRIOR TO WORK COMMENCING. TREE PROTECTION SPECIFICATIONS CAN BE FOUND ON THE FOLLOWING WEBSITE: HTTPS://WWW.CITYOFMADISON.COM/BUSINESS/PW/SPECS.CFM

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.

CONTACT PROJECT ENGINEER AND STREET DESIGNER EMMA ALMY AT EALMY@CITYOFMADISON.COM FOR CAD AND ALIGNMENT DATA PRIOR TO STAKING.

CONVENTIONAL SIGNS
FIELD VERIFY ALL UTILITY LOCATIONS

GAS	G
STORM SEWER	ST
SANITARY SEWER	SAN
WATER	W
BURIED ELECTRIC	E
OVERHEAD ELECTRIC	OH
POWER POLE	
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

ALL PAVEMENT IN THE BARN SWALLOW CIRCLE AND AMBER NEST ROAD RIGHTS-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 GRADE OF 0.5% TOWARD STORM SEWER INLETS.

ALL DITCHES SHALL DRAIN WITH A MINIMUM GRADE 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. 3.04. 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 4:1. 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.

CURB STATION AND OFFSETS SHALL BE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE EDGE OF PAVEMENT 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 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.

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

ALL WORK IN THE RIGHT OF WAY AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION.

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STANDARD NOTES

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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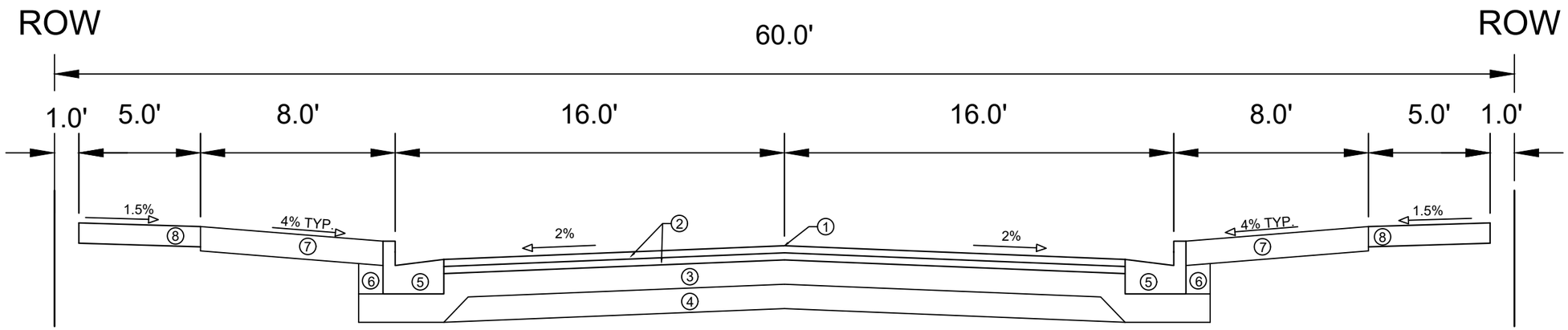
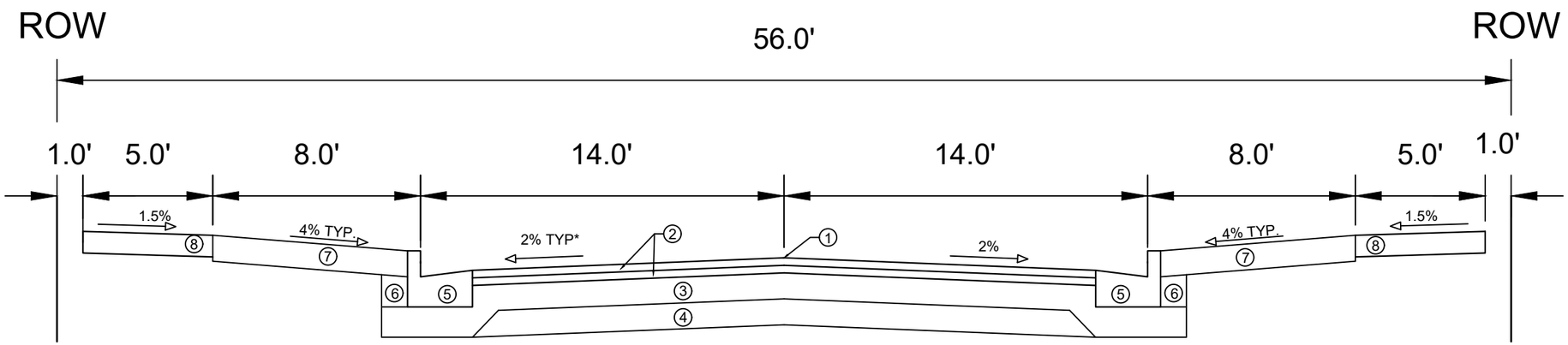
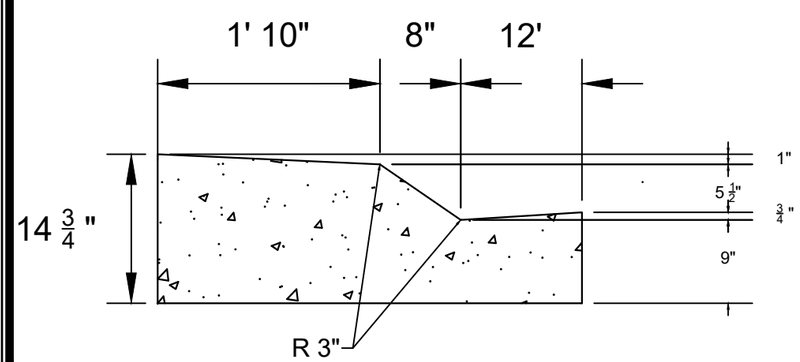


TYPICAL SECTION
BARN SWALLOW CIRCLE



TYPICAL SECTION
AMBER NEST ROAD



DETAIL 1 - CULDESAC TRAFFIC CIRCLE
MOUNTABLE CONCRETE CURB & GUTTER

SPECIAL NOTES:

* SEE X-SHEETS FOR CROSS SLOPES

① POINT REFERRED TO ON PROFILE
② 1.75" H.M.A. PAVEMENT- TYPE 4 LT 58-28 S
③ 6" CRUSHED AGGREGATE BASE COURSE GRADATION 2
④ 6" CRUSHED AGGREGATE BASE COURSE GRADATION 1
⑤ CONCRETE CURB AND GUTTER TYPE 'A'.
⑥ FILL
⑦ 6" TOPSOIL, SEED AND MATTING
⑧ 5" CONCRETE SIDEWALK

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TYPICAL SECTIONS
SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6
MADISON, WI
CONTRACT NO: 9217

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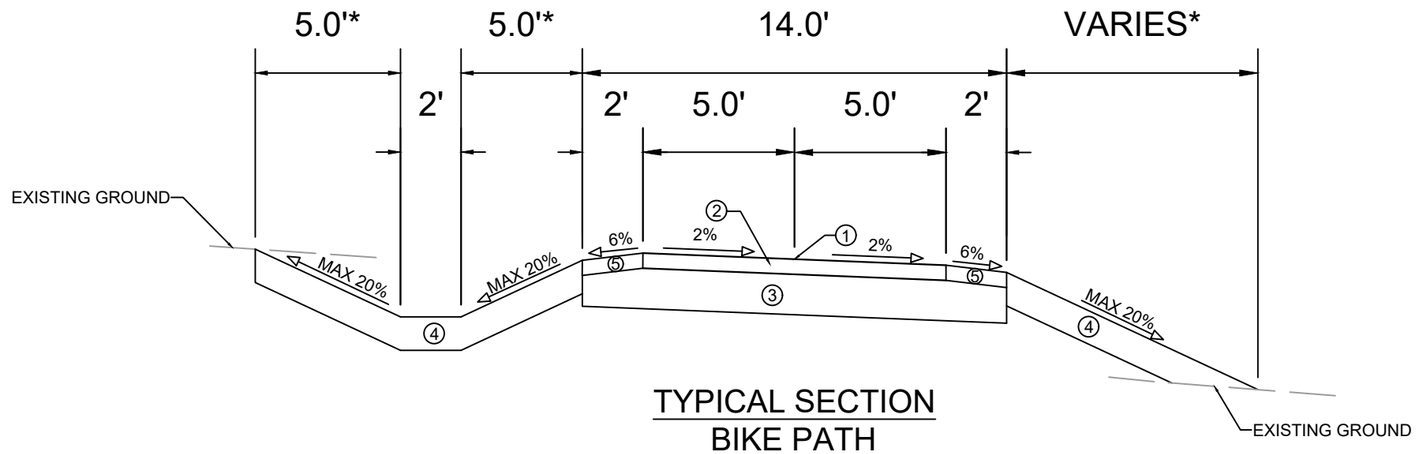
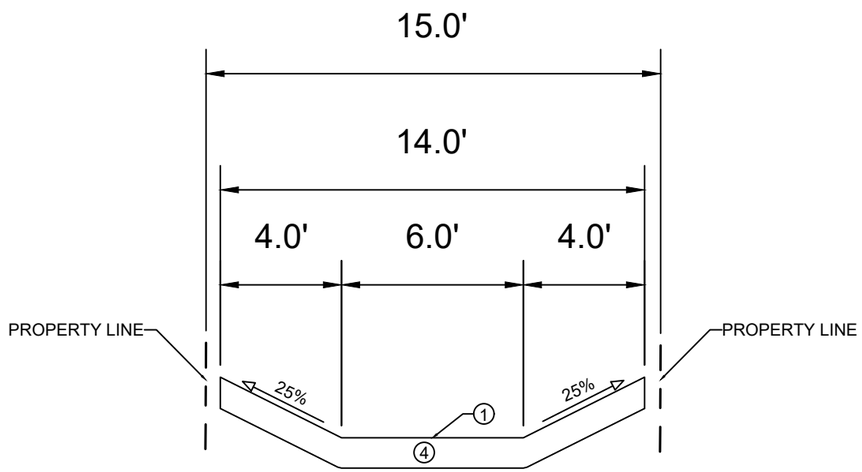
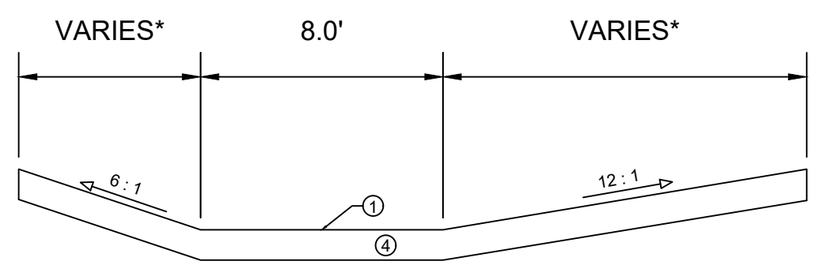


TYPICAL SECTION
BIKE PATH



TYPICAL SECTION
STORMSEWER EASEMENT CHANNEL



TYPICAL SECTION
PARK GRADING SWALE

SPECIAL NOTES:

* SEE X-SHEETS FOR DIMENSIONS

① POINT REFERRED TO ON PROFILE
② 3" H.M.A. PAVEMENT- TYPE 4 LT 58-28 S
③ 8" CRUSHED AGGREGATE BASE COURSE GRADATION 2
④ 6" TOPSOIL, SEED AND MATTING
⑤ 3" TOPSOIL, SEED AND MATTING

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TYPICAL SECTIONS
SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6
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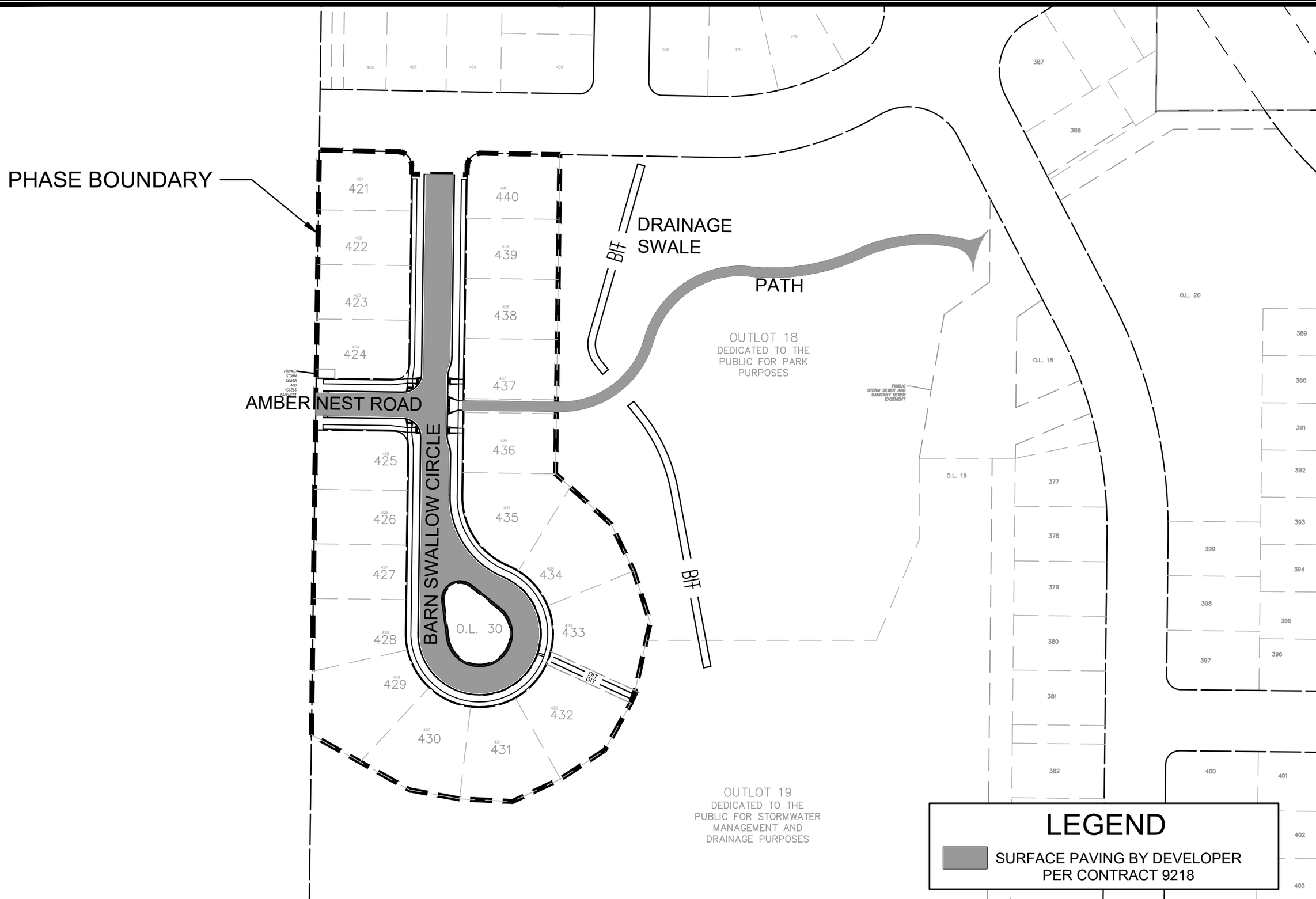

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OVERVIEW PLAN

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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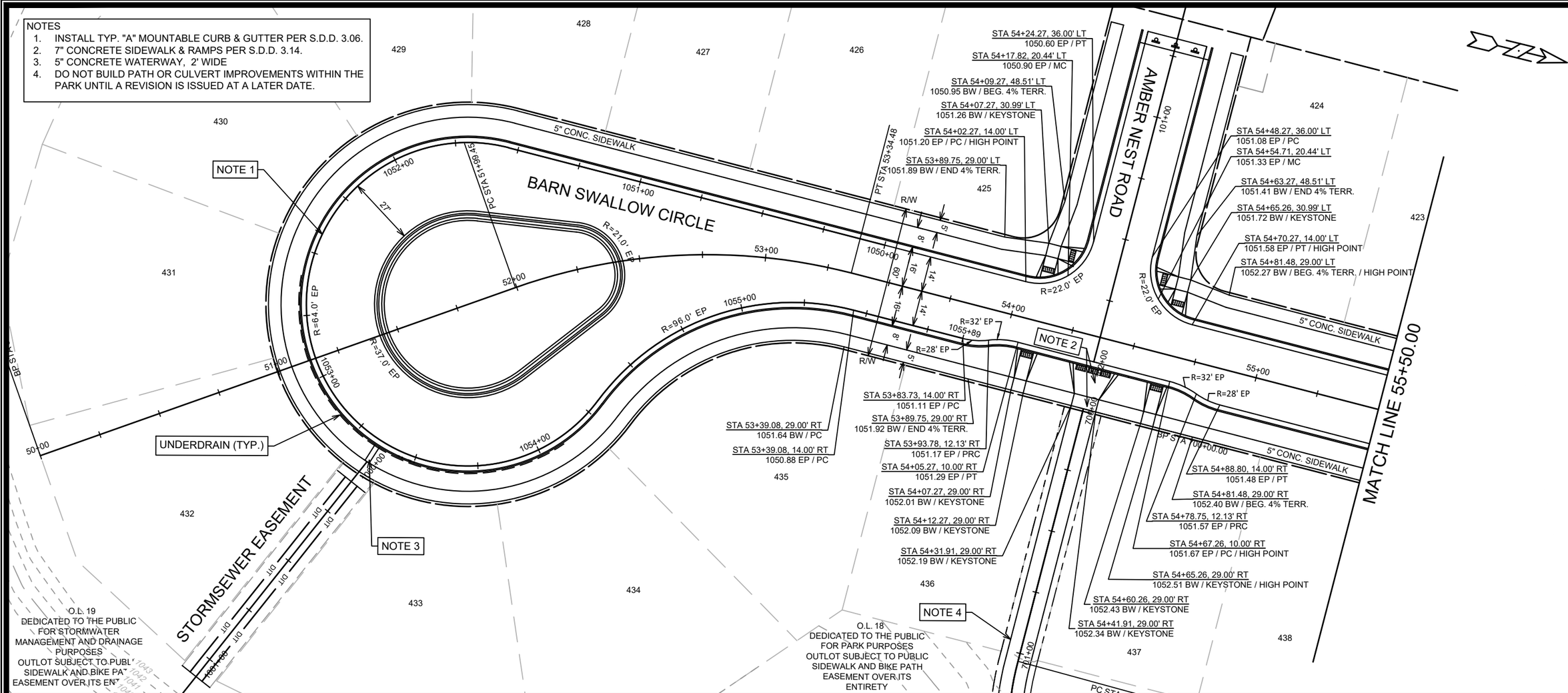
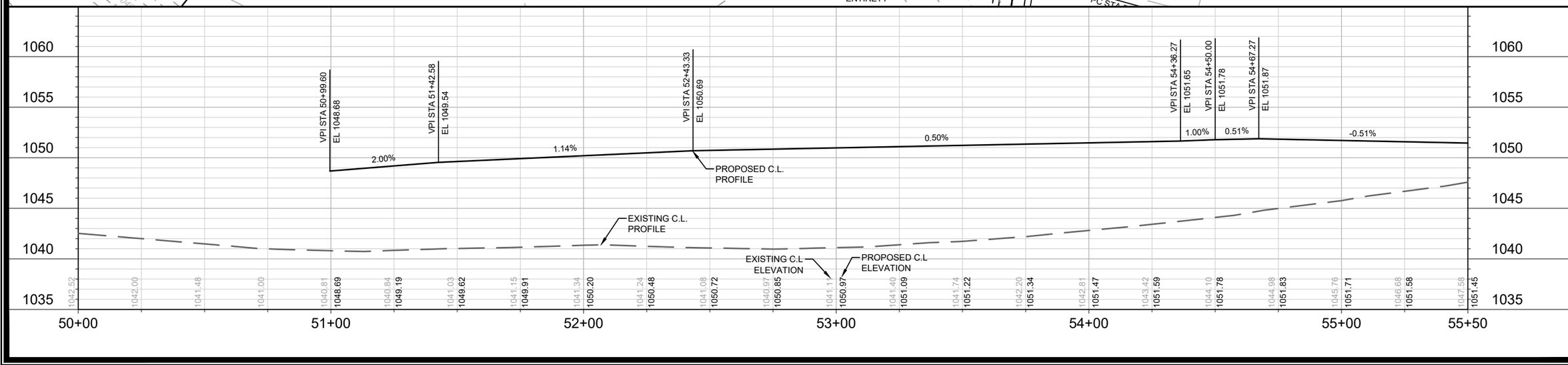
O-1

NOTES
1. INSTALL TYP. "A" MOUNTABLE CURB & GUTTER PER S.D.D. 3.06.
2. 7" CONCRETE SIDEWALK & RAMPS PER S.D.D. 3.14.
3. 5" CONCRETE WATERWAY, 2' WIDE
4. DO NOT BUILD PATH OR CULVERT IMPROVEMENTS WITHIN THE PARK UNTIL A REVISION IS ISSUED AT A LATER DATE.





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PLAN & PROFILE - BARN SWALLOW CIRCLE

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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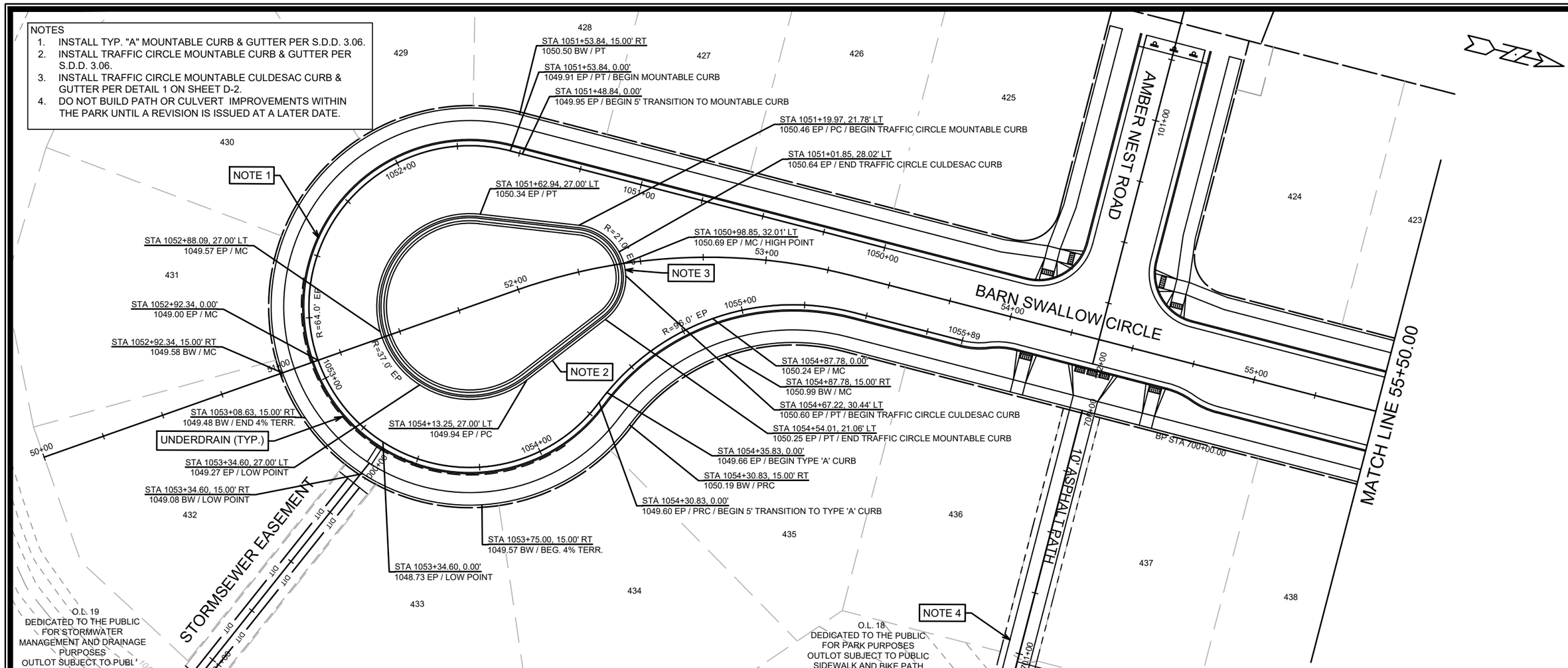
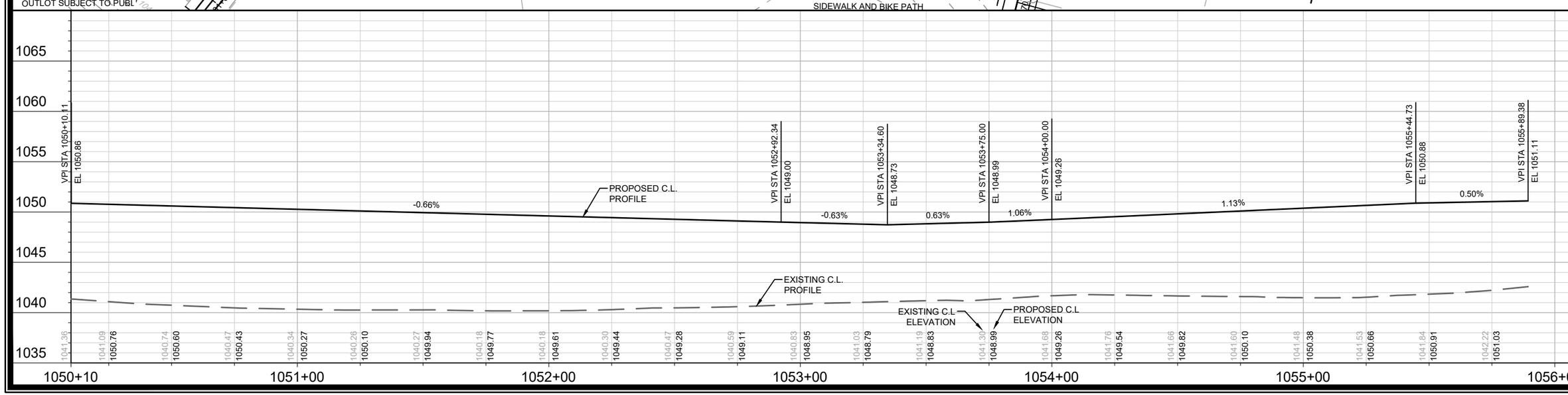
CITY OF MADISON WISCONSIN

14343

P-1A

NOTES
1. INSTALL TYP. "A" MOUNTABLE CURB & GUTTER PER S.D.D. 3.06.
2. INSTALL TRAFFIC CIRCLE MOUNTABLE CURB & GUTTER PER S.D.D. 3.06.
3. INSTALL TRAFFIC CIRCLE MOUNTABLE CULDESAC CURB & GUTTER PER DETAIL 1 ON SHEET D-2.
4. DO NOT BUILD PATH OR CULVERT IMPROVEMENTS WITHIN THE PARK UNTIL A REVISION IS ISSUED AT A LATER DATE.





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PLAN & PROFILE - BARN SWALLOW CIRCLE CULDESAC

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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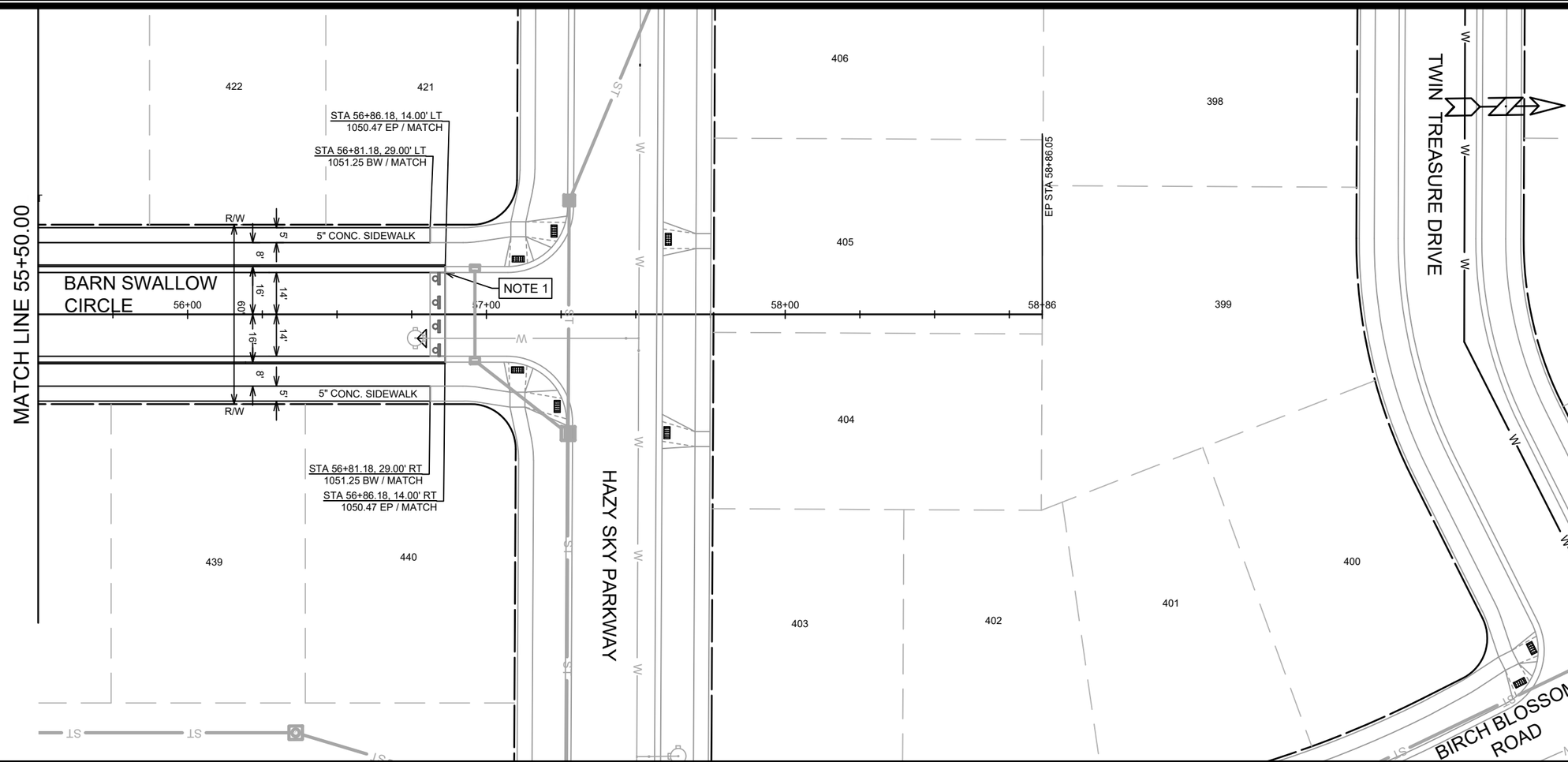
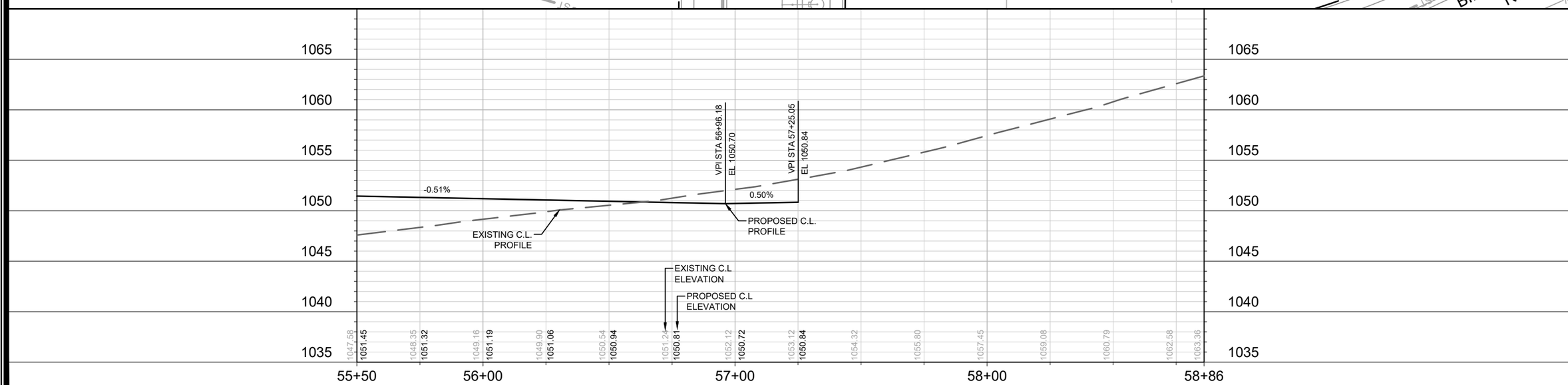


NOTE
1. REMOVE BARRICADES



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PLAN & PROFILE - BARN SWALLOW CIRCLE

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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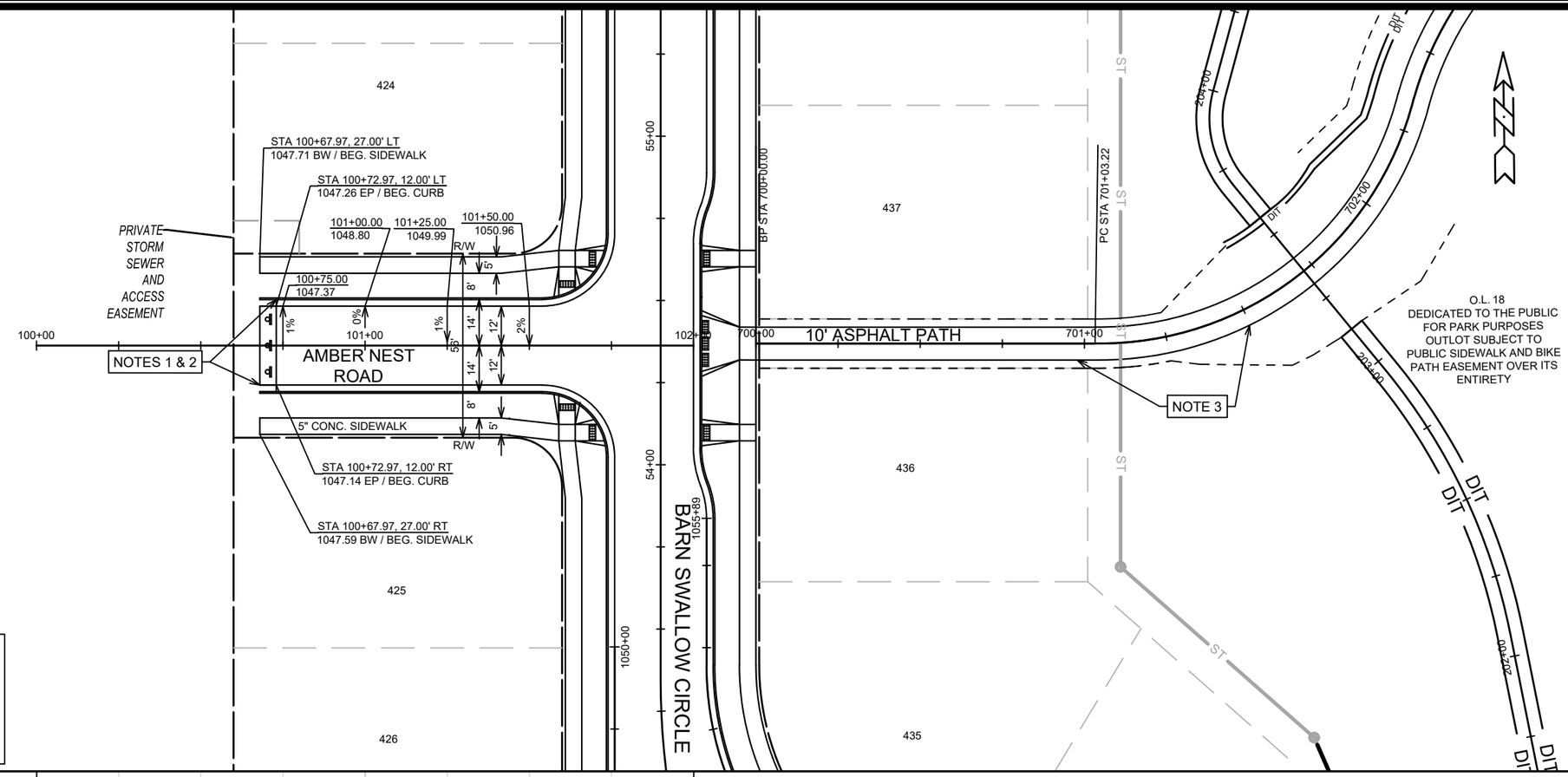
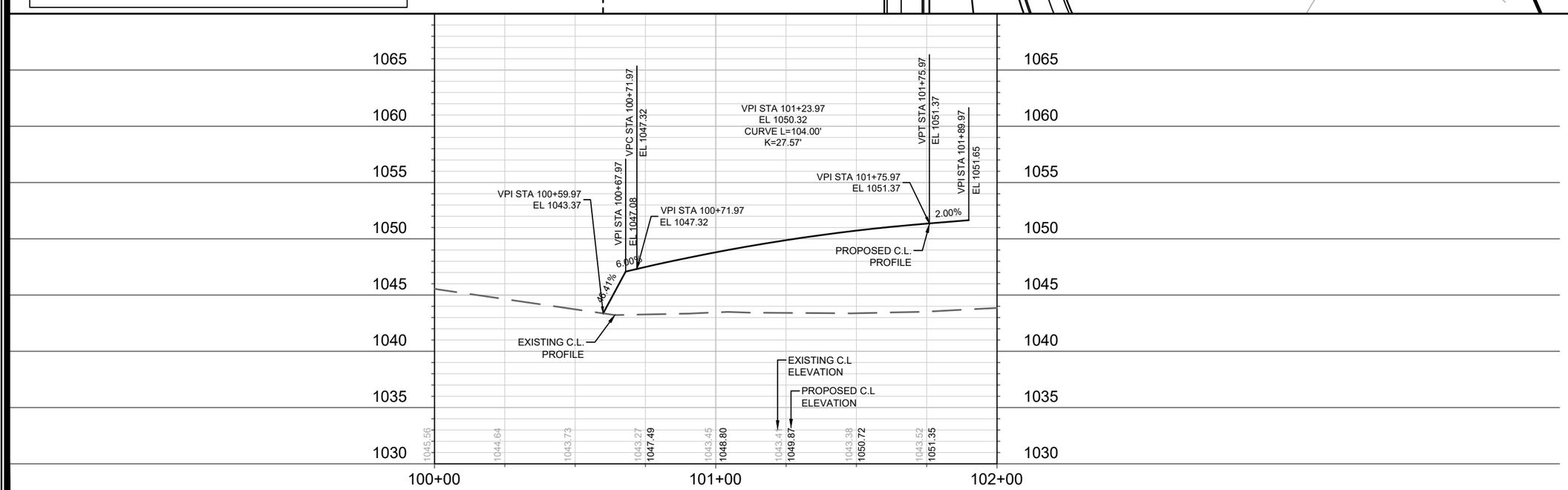


NOTES
1. END OF ROADWAY SIGNING PER S.D.D. 6.29A.
2. 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCTION ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.
3. DO NOT BUILD PATH OR CULVERT IMPROVEMENTS WITHIN THE PARK UNTIL A REVISION IS ISSUED AT A LATER DATE.



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PLAN & PROFILE - AMBER NEST ROAD

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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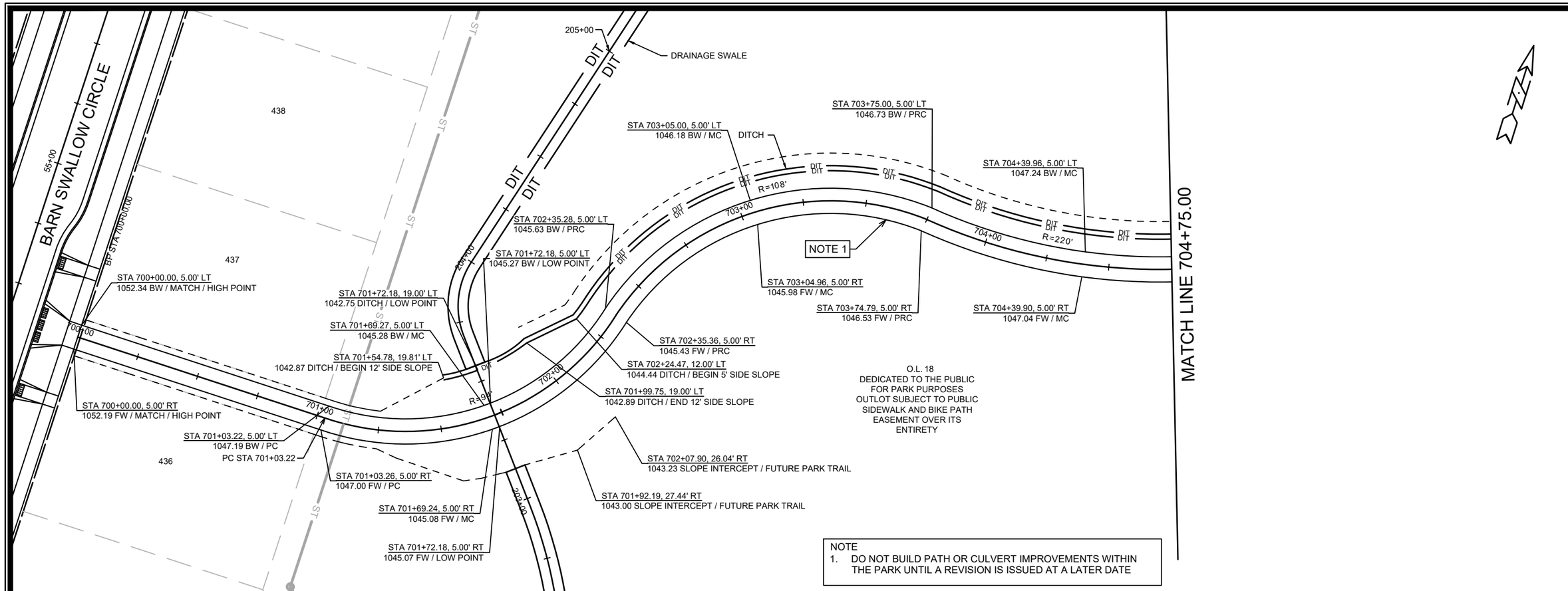

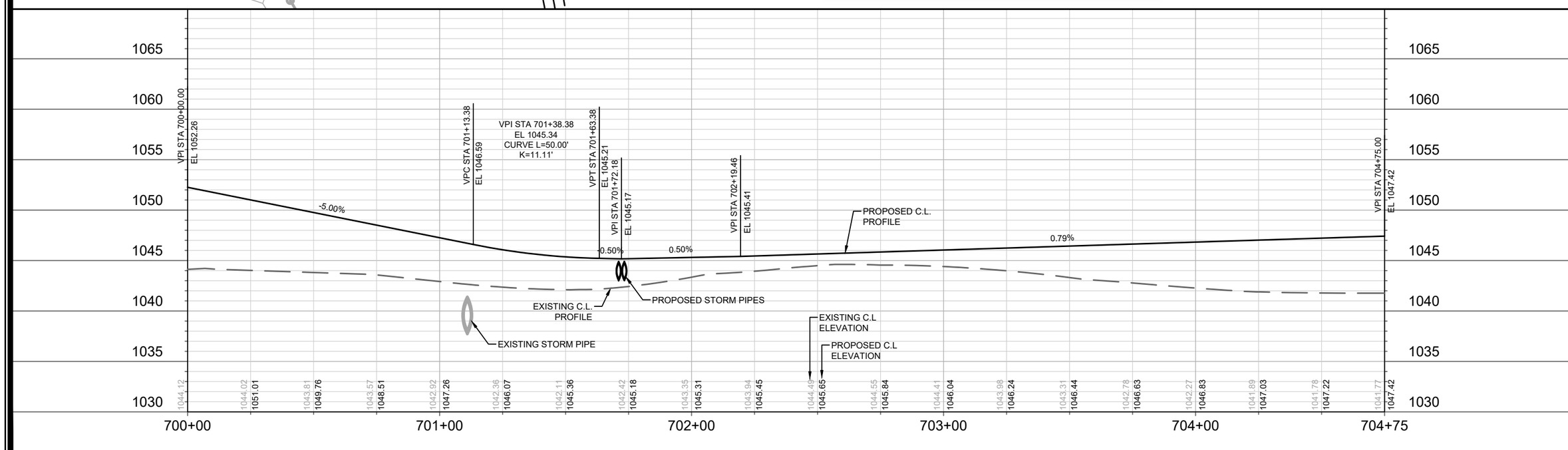

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PLAN & PROFILE - BIKE PATH

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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CITY OF MADISON WISCONSIN

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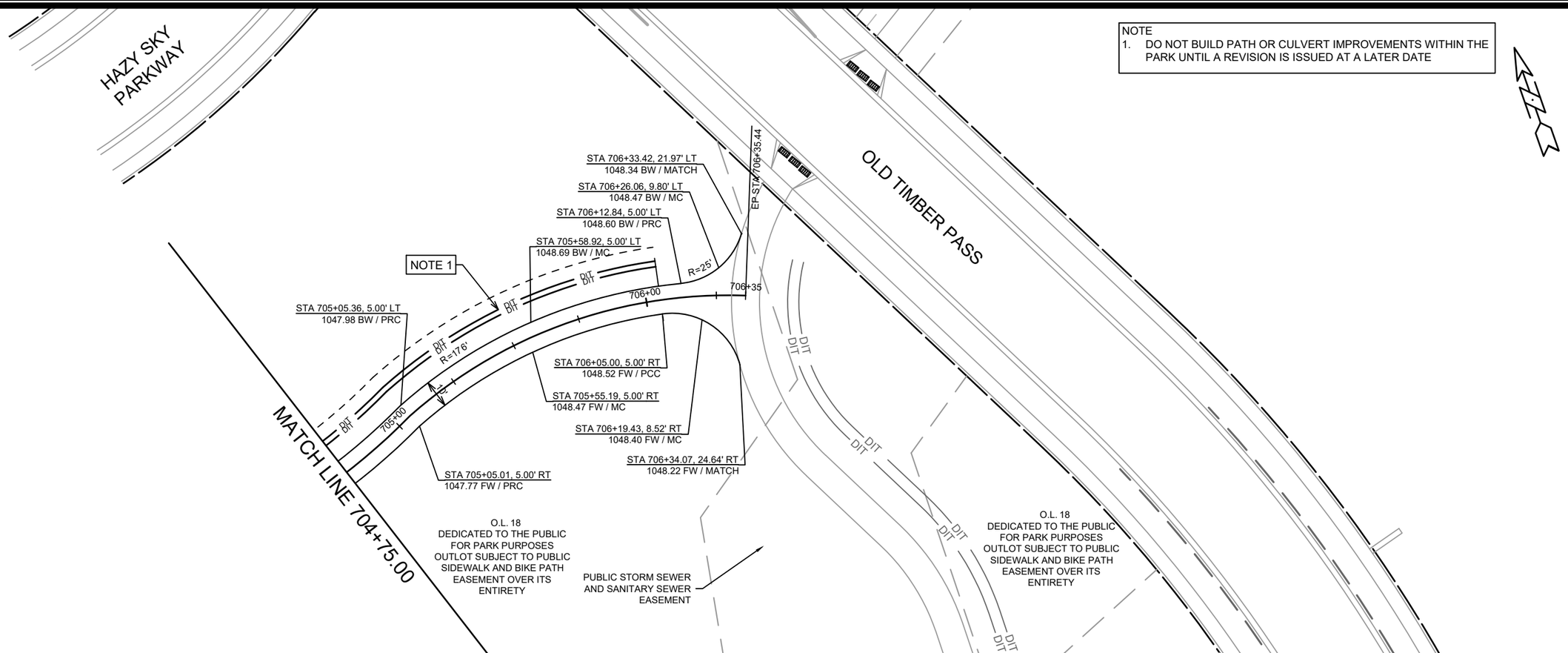
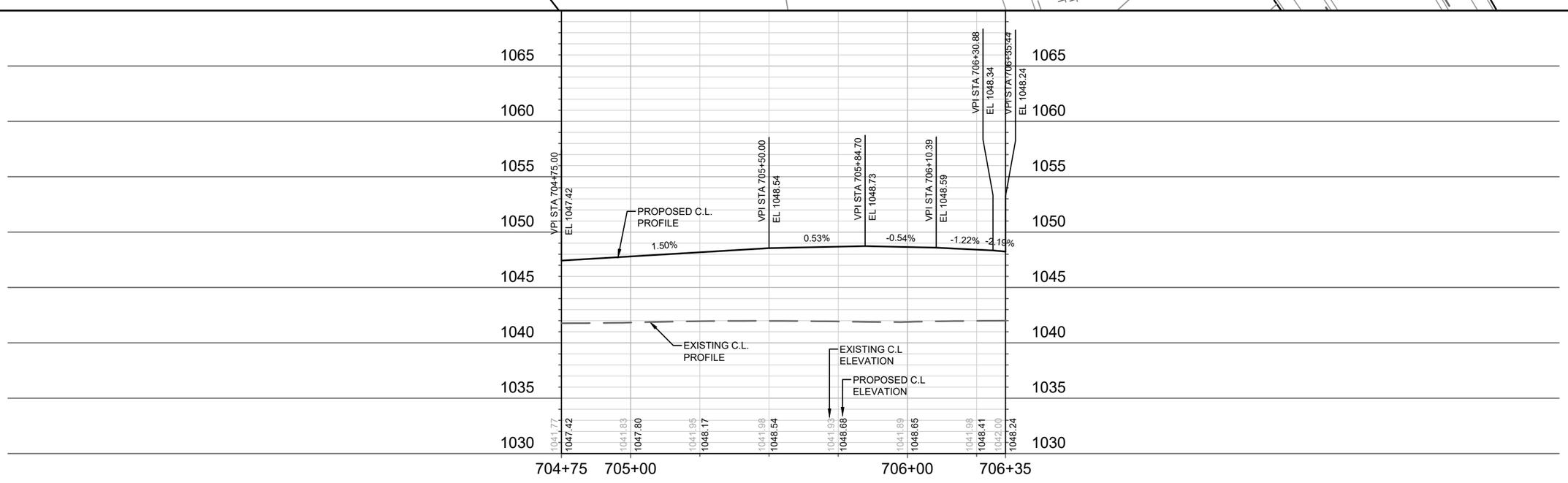
NOTE
1. DO NOT BUILD PATH OR CULVERT IMPROVEMENTS WITHIN THE PARK UNTIL A REVISION IS ISSUED AT A LATER DATE





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PLAN & PROFILE - BIKE PATH

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

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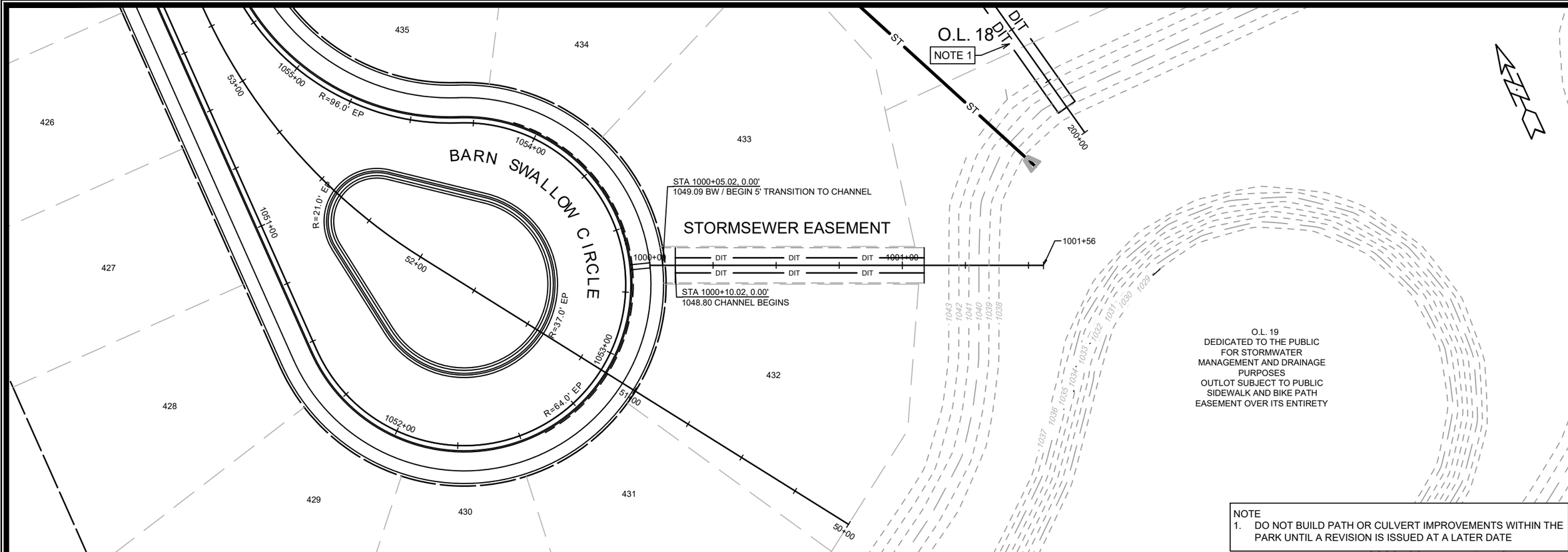

NOTE
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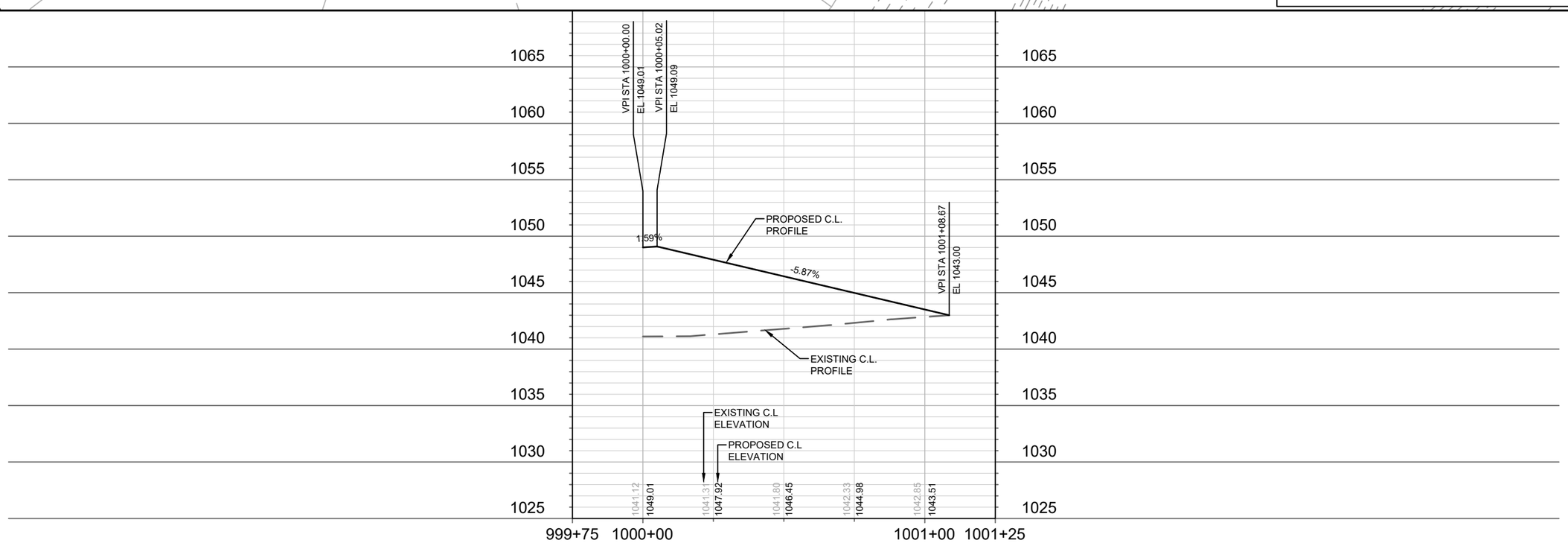

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14343

PLAN & PROFILE - STORMSEWER EASEMENT CHANNEL

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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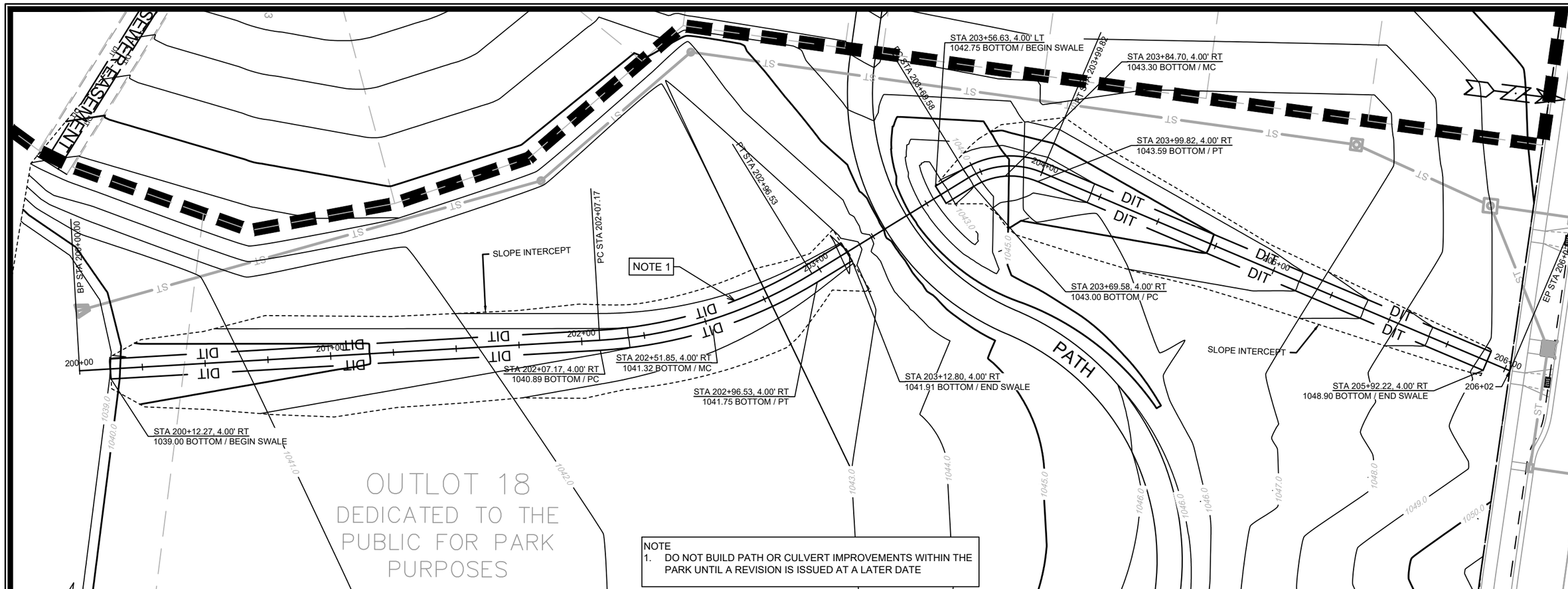
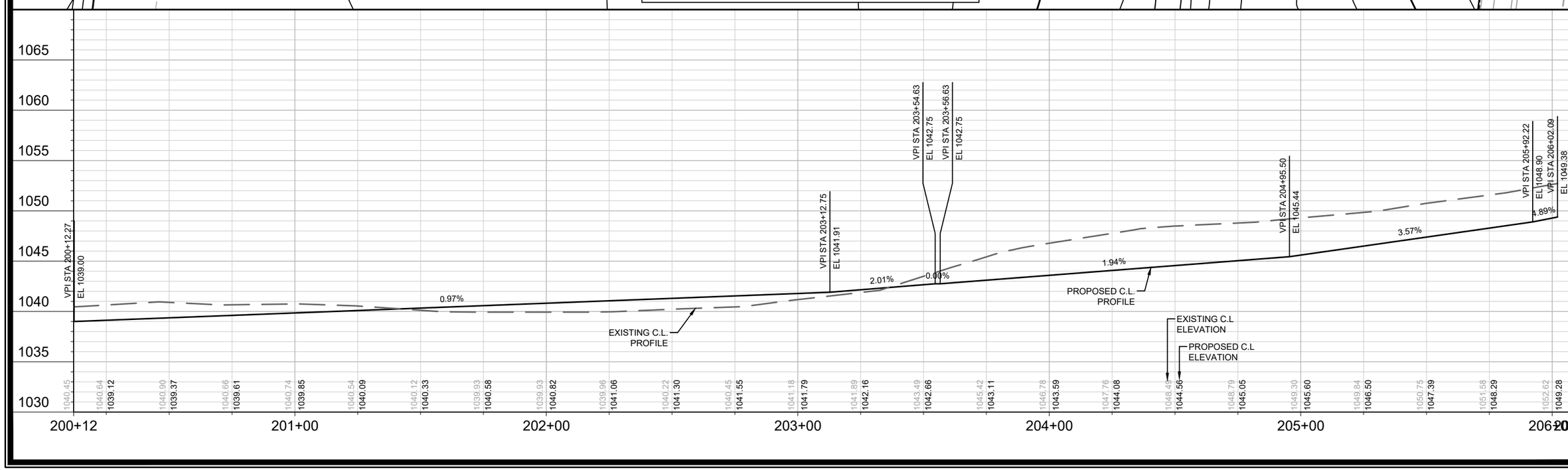
14343

P-6



NOTE
1. DO NOT BUILD PATH OR CULVERT IMPROVEMENTS WITHIN THE PARK UNTIL A REVISION IS ISSUED AT A LATER DATE



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14343

MADISON, WI

CONTRACT NO: 9217

PLAN & PROFILE - PARK GRADING

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

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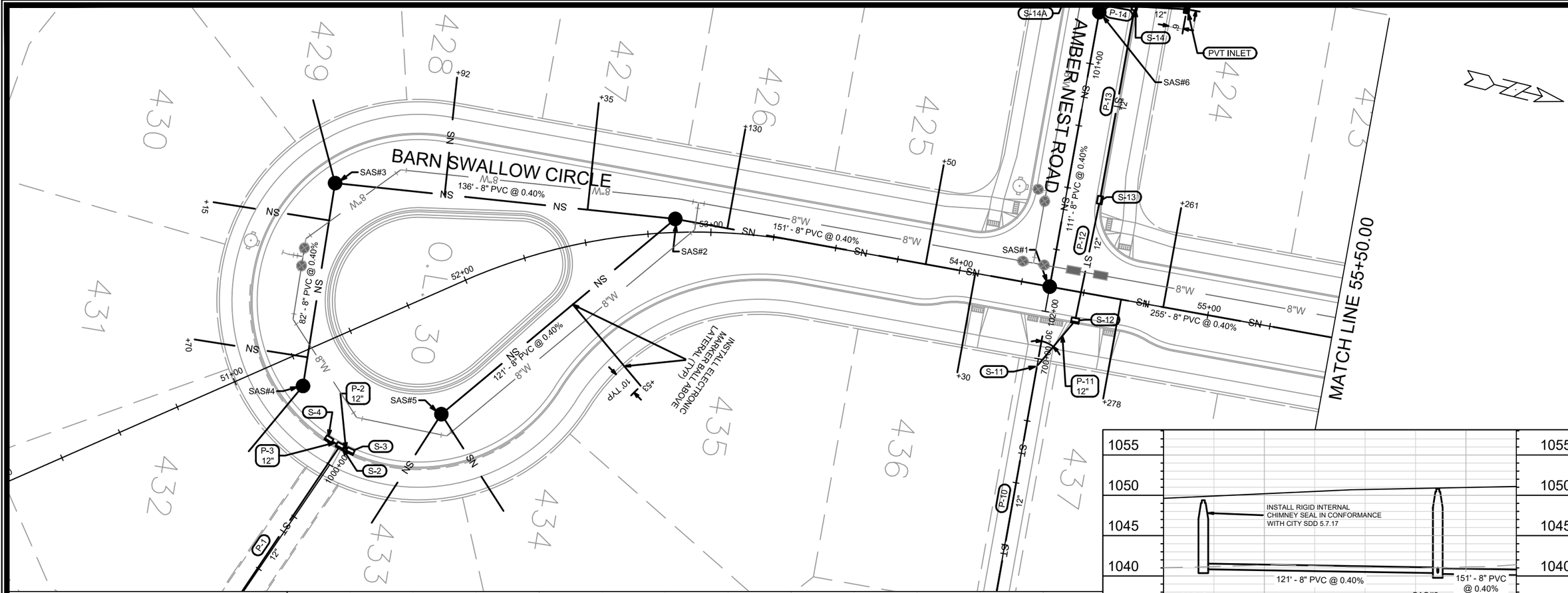
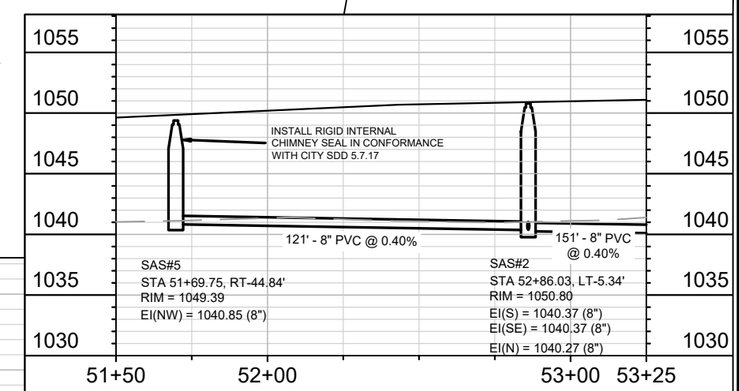
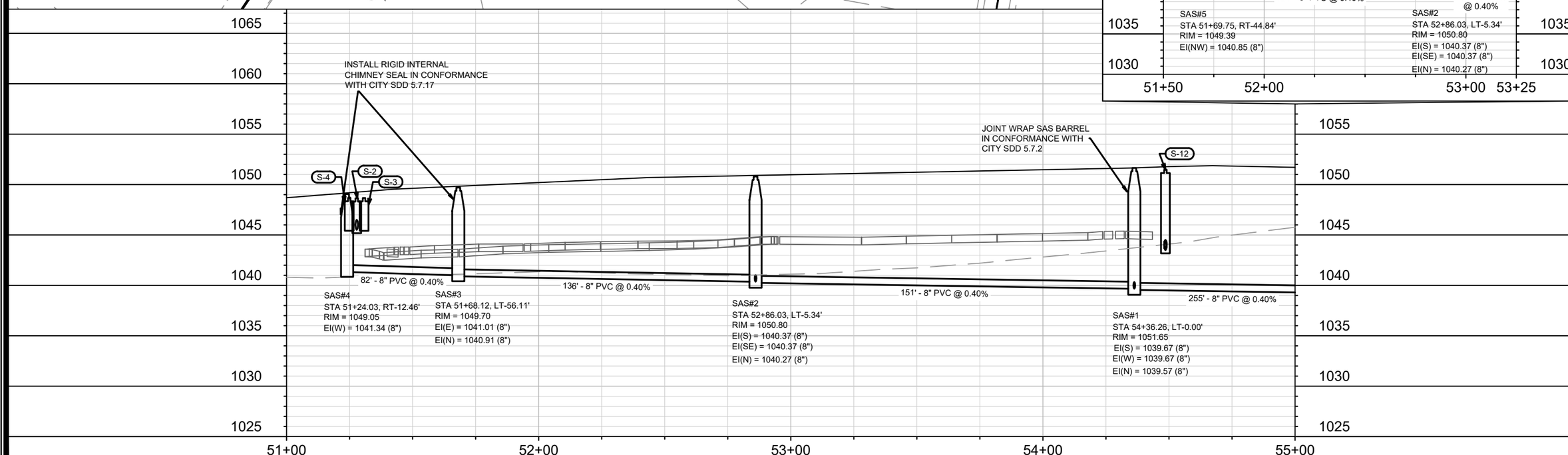
14343

P-7







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14343

U-1

14343

MADISON, WI

CONTRACT NO: 9217

BARN SWALLOW CIRCLE - UTILITIES PLAN & PROFILE

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 6

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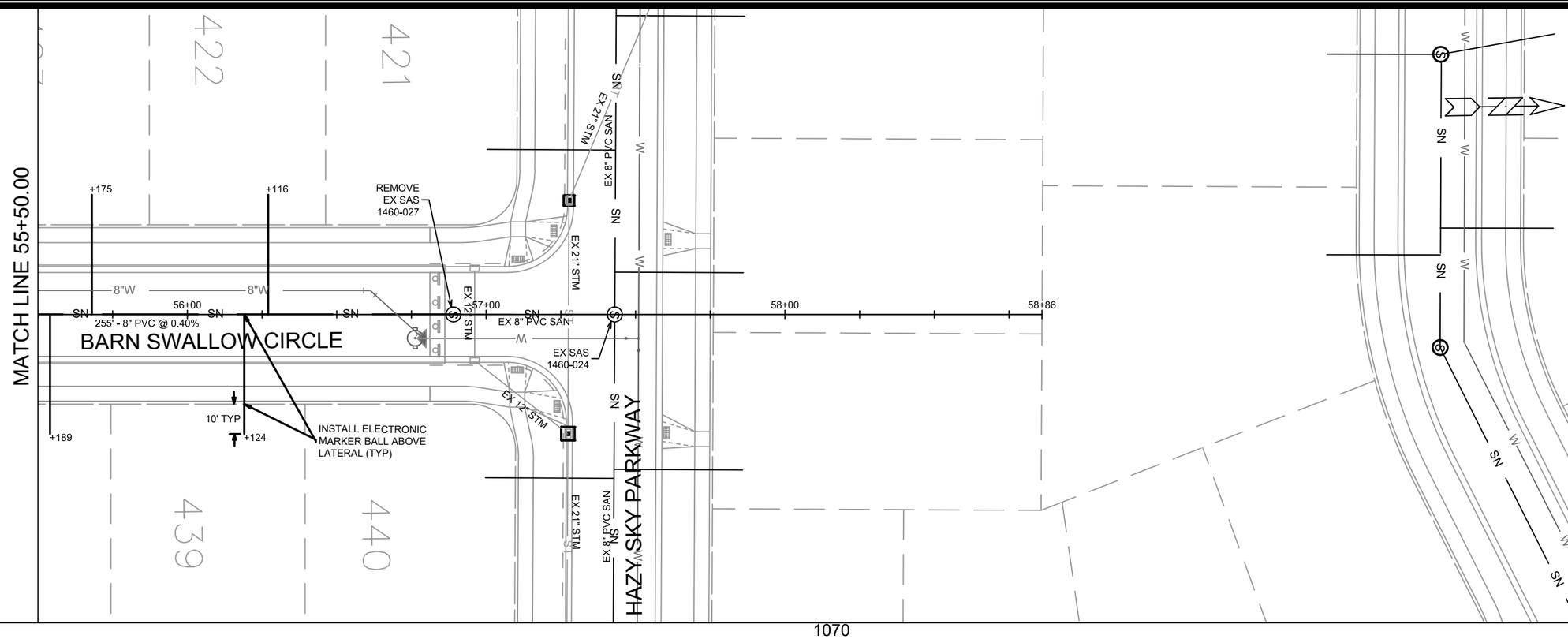
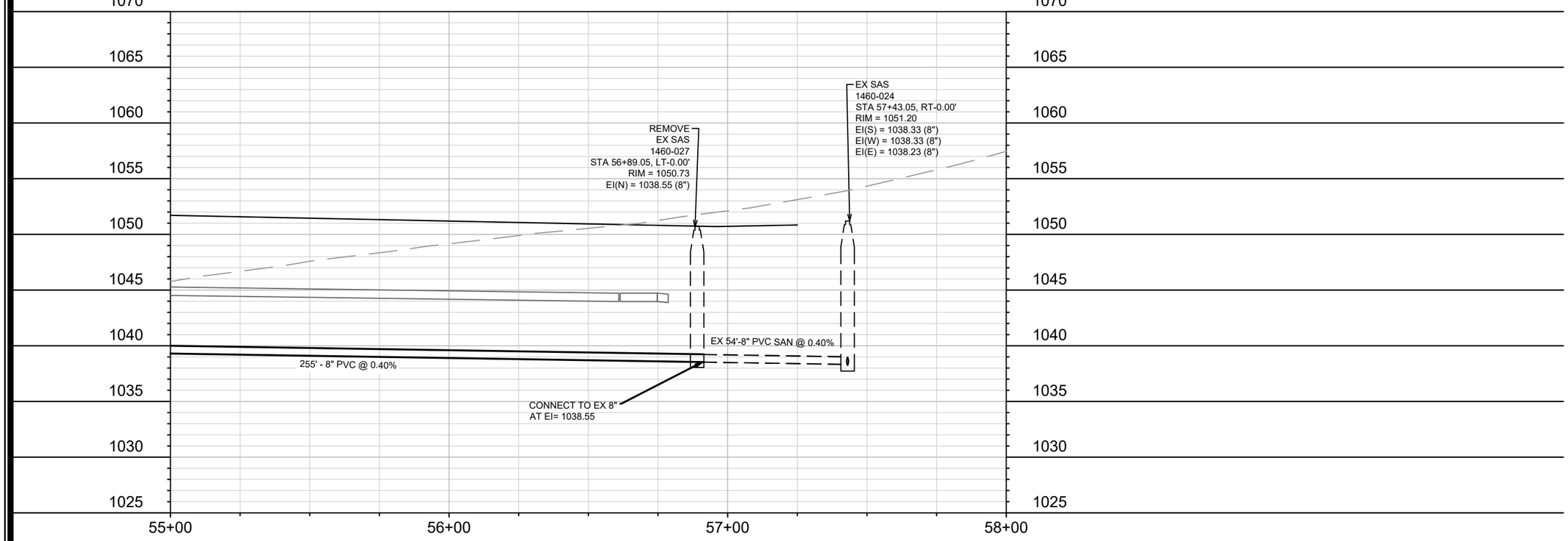
14343

U-1





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14343

U-2

14343

MADISON, WI

CONTRACT NO: 9217

BARN SWALLOW CIRCLE -UTILITIES PLAN & PROFILE

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 6

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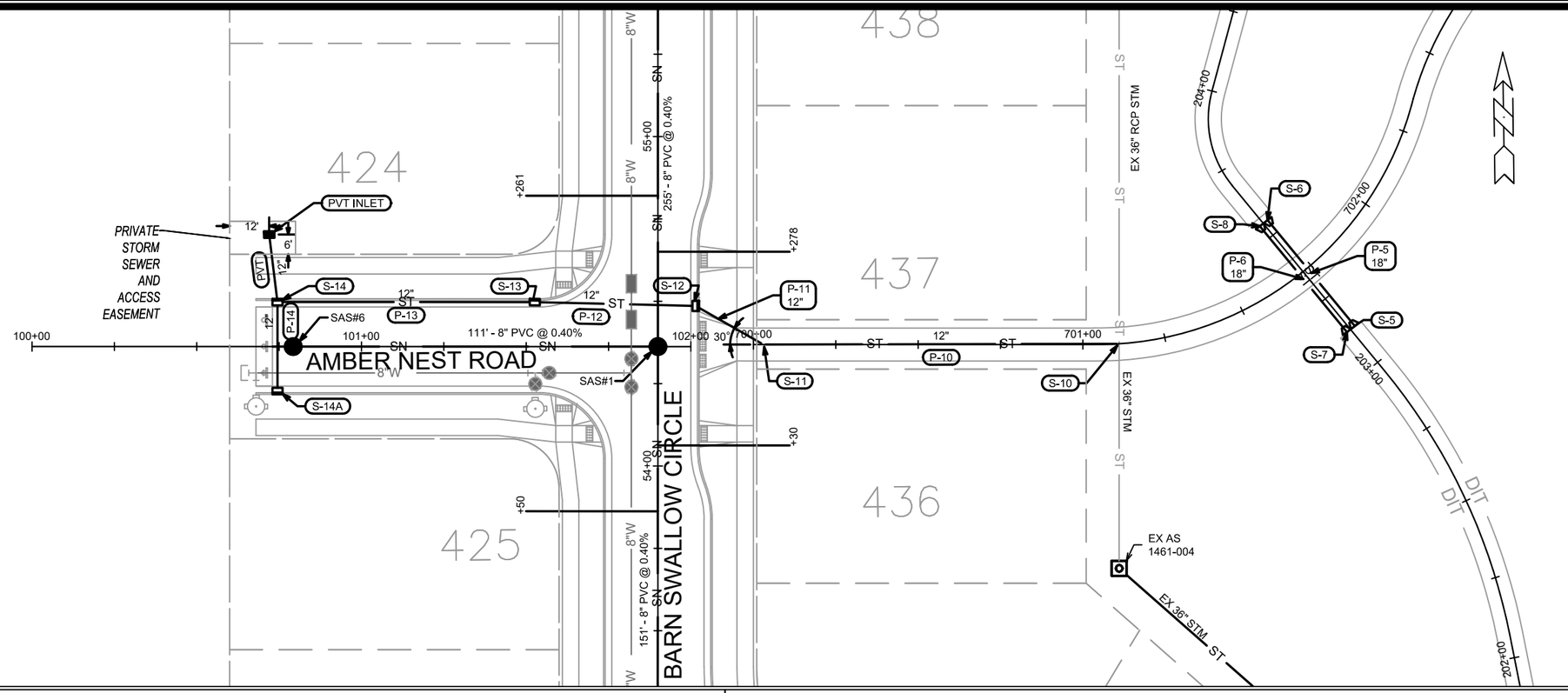
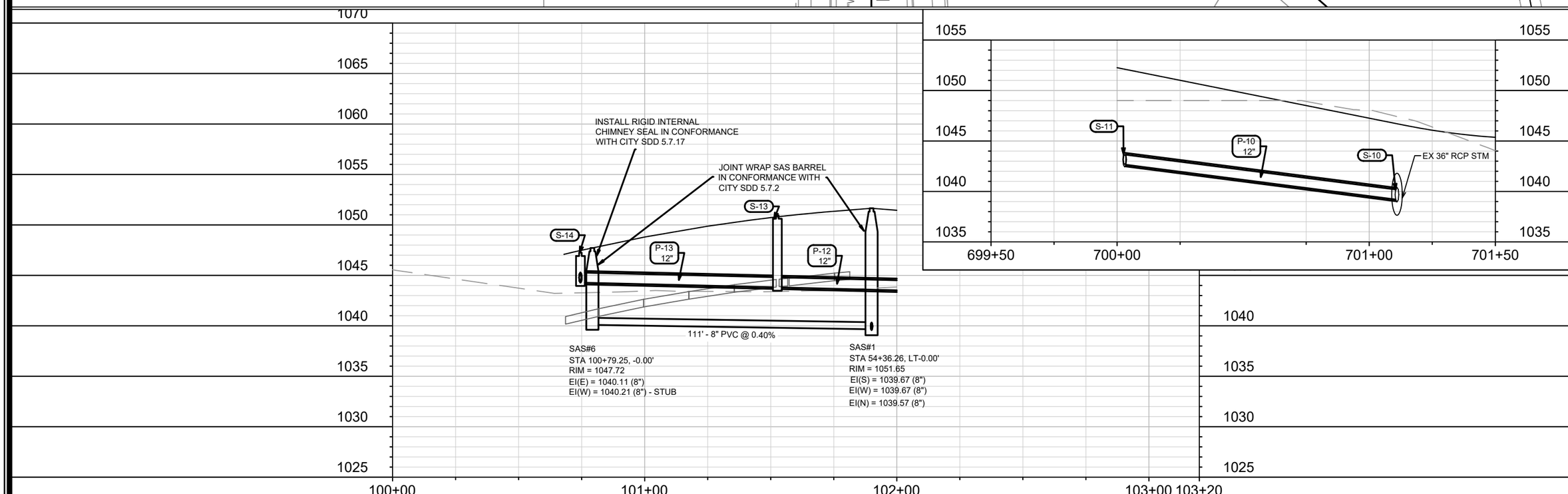
CITY OF MADISON WISCONSIN

14343

U-2





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Designed By: EEA | Date: 4/4/2023 2:59 PM | Scale: 1"=40'

14343

U-3

14343

CITY OF MADISON

CONTRACT NO: 9217

AMBER NEST ROAD - UTILITIES PLAN & PROFILE

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 6

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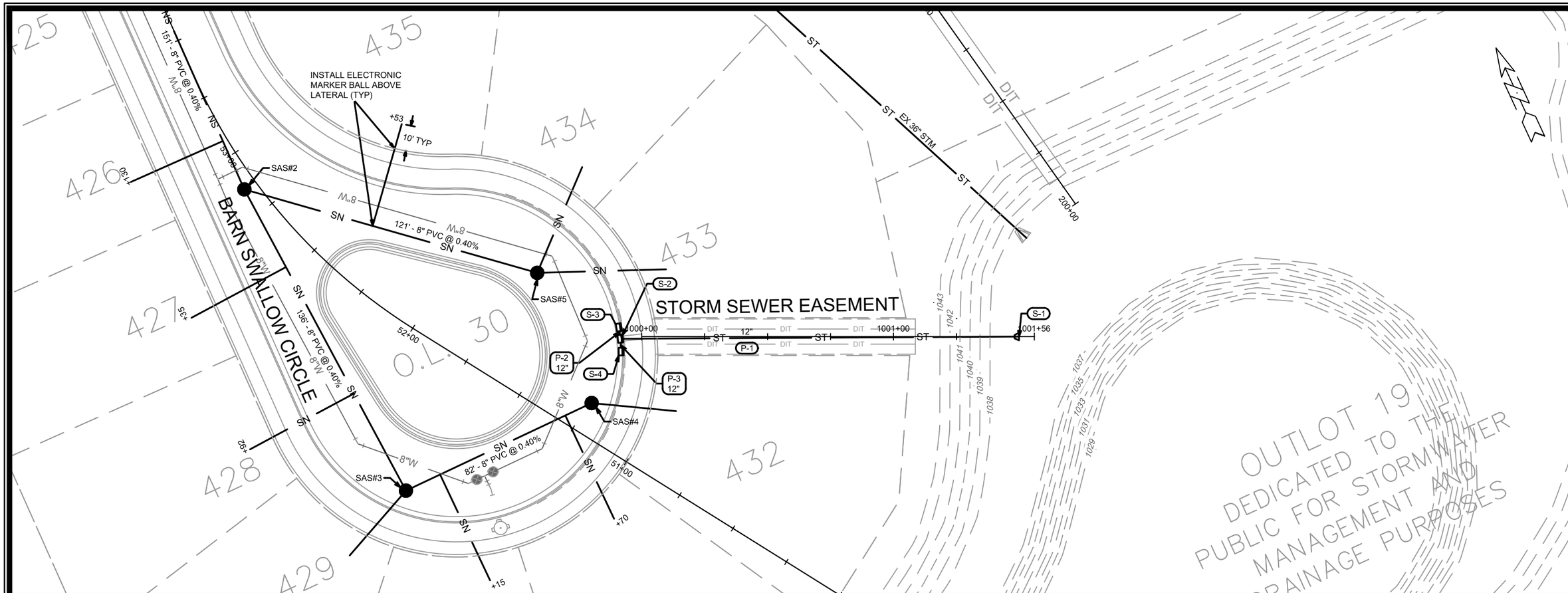
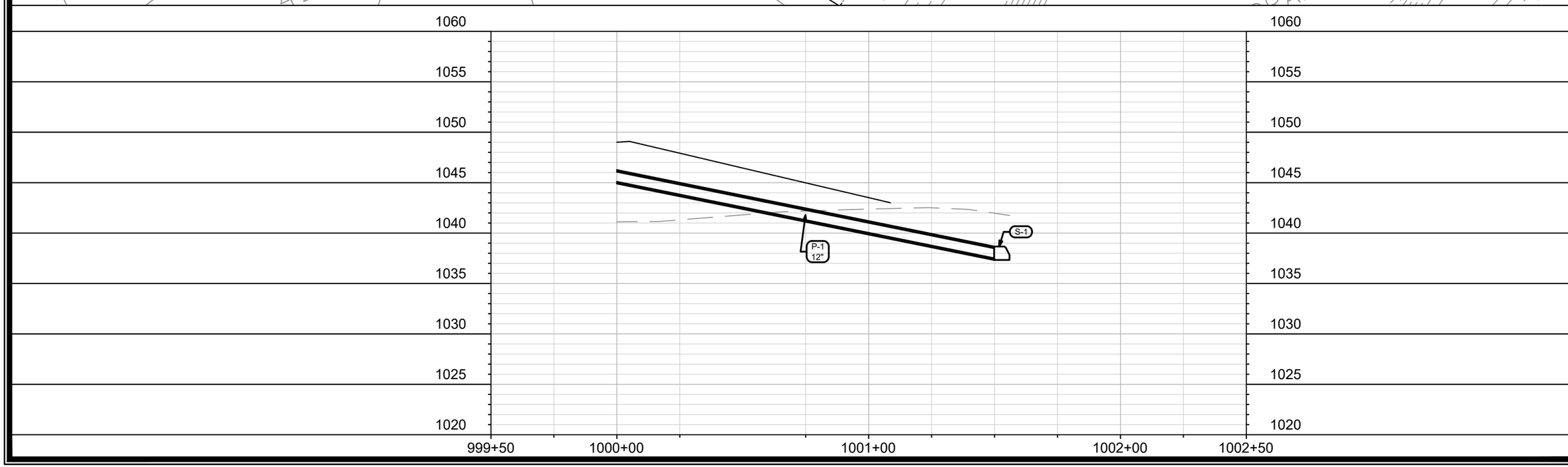
14343

U-3





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Designed By: EEA | Date: 4/5/2023 8:56 AM | Scale: 1" = 40'

14343

STORM EASEMENT - PLAN & PROFILE

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 6

MADISON, WI

CONTRACT NO: 9217

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14343

U-4

SOUTHERN ADDITION TO BIRCHWOOD POINT PH 6	SHEET NO.
PROJECT NO. 14343	U-SAN
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

SANITARY SEWER SCHEDULE

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
BARN SWALLOW CIRCLE						
SAS#1	54+36.26	CL	1051.65	1039.57	12.08	(1)
SAS#2	52+86.03	LT-5.34	1050.77	1040.27	10.50	-
SAS#3	51+68.12	LT-56.11	1049.68	1040.91	8.77	(2)
SAS#4	51+24.03	RT-12.46	1049.05	1041.34	7.71	(2)
SAS#5	51+69.75	RT-44.84	1049.39	1040.85	8.54	(2)
AMBER NEST ROAD						
SAS#6	100+79.25	CL	1047.72	1040.11	7.61	(1), (2)

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
BARN SWALLOW CIRCLE								
1460-027	SAS#1	1038.55	1039.57	255	0.40%	8"	SDR-35	-
SAS#1	SAS#2	1039.67	1040.27	151	0.40%	8"	SDR-35	-
SAS#2	SAS#3	1040.37	1040.91	136	0.40%	8"	SDR-35	-
SAS#3	SAS#4	1041.01	1041.34	82	0.40%	8"	SDR-35	-
SAS#2	SAS#5	1040.37	1040.85	121	0.40%	8"	SDR-35	-
AMBER NEST ROAD								
SAS#1	SAS#6	1039.67	1040.11	111	0.40%	8"	SDR-35	-

SANITARY STRUCTURE REMOVALS

STRUC. NO.	STATION	LOCATION (OFFSET)	NOTES
BARN SWALLOW CIRCLE			
1460-027	56+89.05	CL	-

NOTES:

- ALL STRUCTURES SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL. 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.

(1) JOINT WRAP SAS BARREL IN CONFORMANCE WITH CITY SDD 5.7.2
(2) INSTALL RIGID INTERNAL CHIMNEY SEAL IN CONFORMANCE WITH CITY SDD 5.7.17

STORM SEWER SCHEDULE

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 6	SHEET NO.
PROJECT NO. 14343	U-STM
STORM SEWER SCHEDULE	
	CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
STORM EASEMENT							
S-1	1001+49.86	CL	12" RCP APRON END	-	1037.50	-	W/ GATE
BARN SWALLOW CIRCLE							
S-2	51+27.86	RT-40.16	H INLET	1048.94	1045.34	3.60	LP; W/ R-3067-7004-VB
S-3	51+30.76	RT-43.70	H INLET	1048.97	1045.37	3.60	W/ R-3067-7004-V
S-4	51+24.88	RT-36.03	H INLET	1048.97	1045.47	3.50	W/ R-3067-7004-V
S-12	54+48.60	RT-11.50	H INLET	1051.80	1043.51	8.29	W/ R-3067-7004-V
BIKE PATH							
S-5	701+73.40	RT-22.69	18" RCP APRON END	-	1043.00	-	-
S-6	701+73.86	LT-18.95	18" RCP APRON END	-	1043.84	-	-
S-7	701+70.96	RT-22.59	18" RCP APRON END	-	1043.00	-	-
S-8	701+70.15	LT-19.00	18" RCP APRON END	-	1043.84	-	-
S-10	701+11.00	CL	STORM TAP	-	1039.19	-	FITTING REQUIRED
S-11	700+03.00	CL	30 DEGREE FIELD BEND	-	1042.66	-	-
AMBER NEST ROAD							
S-13	101+52.60	LT-13.50	H INLET	1051.42	1043.81	7.61	W/ R-3067-7004-V
S-14	100+74.50	LT-13.50	H INLET	1047.72	1044.28	3.44	W/ R-3067-7004-V
S-14A	100+74.50	RT-13.50	H INLET	1047.60	1044.44	3.16	W/ R-3067-7004-V
PVT INLET	100+71.97	LT-34.00	H INLET	1047.40	1044.40	3.00	W/ R-1878-B7G

PROPOSED STORM 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
STORM EASEMENT										
P-1	S-1	S-2	1037.50	1045.34	158	158	4.96%	12"	TYPE I	(1)
BARN SWALLOW CIRCLE										
P-2	S-2	S-3	1045.34	1045.37	5	2	1.50%	12"	TYPE II	-
P-3	S-2	S-4	1045.37	1045.47	5	2	5.00%	12"	TYPE II	-
P-12	S-12	S-13	1043.51	1043.81	49	46	0.65%	12"	TYPE I	-
BIKE PATH										
P-5	S-5	S-6	1041.91	1042.77	42	42	2.05%	18"	TYPE I	(2)
P-6	S-7	S-8	1041.86	1042.76	42	42	2.14%	18"	TYPE I	(2)
P-10	S-10	S-11	1039.19	1042.66	108	108	3.21%	12"	TYPE II	-
P-11	S-11	S-12	1042.66	1043.51	24	22	3.86%	12"	TYPE II	-
AMBER NEST ROAD										
P-13	S-13	S-14	1043.81	1044.28	78	75	0.63%	12"	TYPE II	-
P-14	S-14	S-14A	1044.28	1044.44	27	25	0.64%	12"	TYPE I	-
PVT	S-14	PVT INLET	1044.28	1044.40	21	19	0.63%	12"	TYPE II	-

SPECIFIC NOTES:

(1) INCLUDE PIPE TIES

(2) DO NOT BUILD UNTIL PROJECT ENGINEER ISSUES A REVISION WITH OFFICIAL LAYOUT

STANDARD NOTES:

-PLAN LENGTH (PAY 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.

- 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.

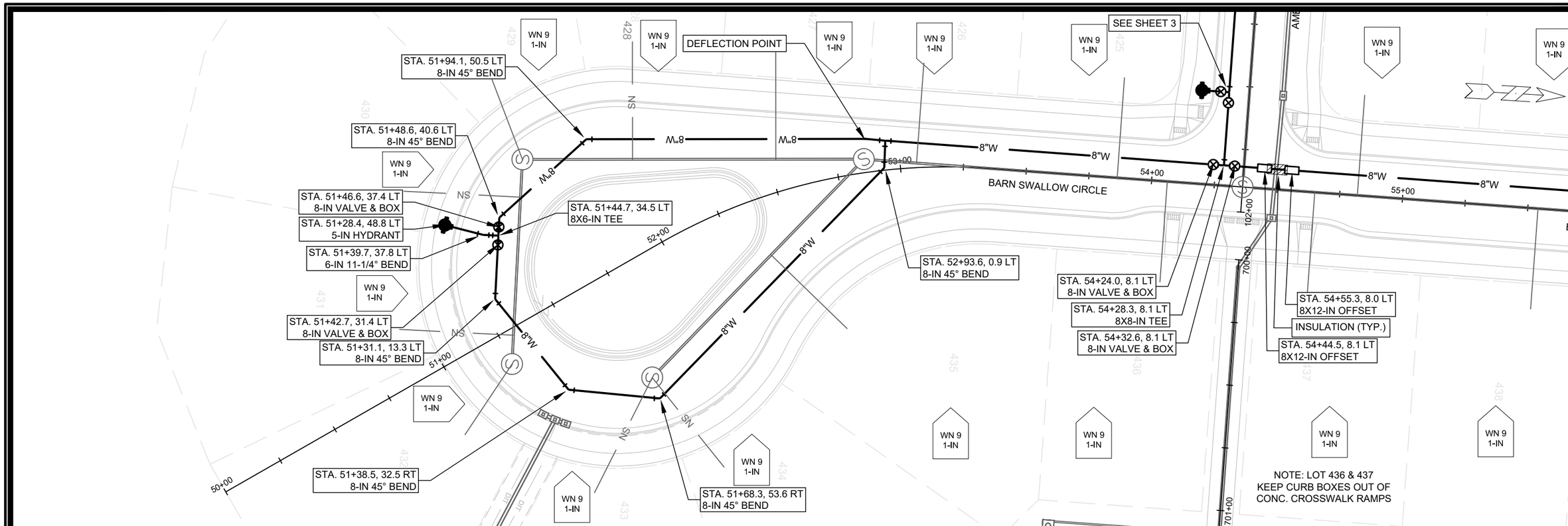
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.

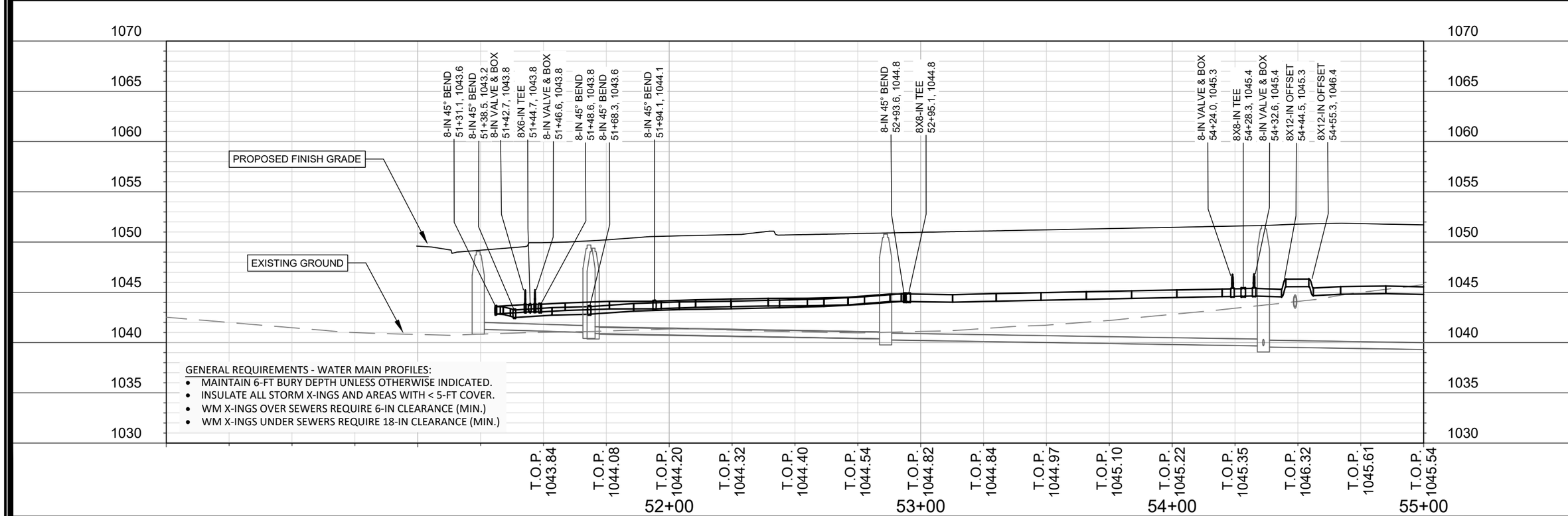
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

-ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.

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

-FOR SWM PRECAST APPROVALS CONTACT PHIL GAEBLER AT (608) 266-4059 OR EMAIL SWM SHOP DRAWINGS TO PGAEBLER@CITYOFMADISON.COM





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.)

SCALE: 1" = 40'
DESIGNED BY: TDP
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:4/5/23

CONTRACT NO: 9127

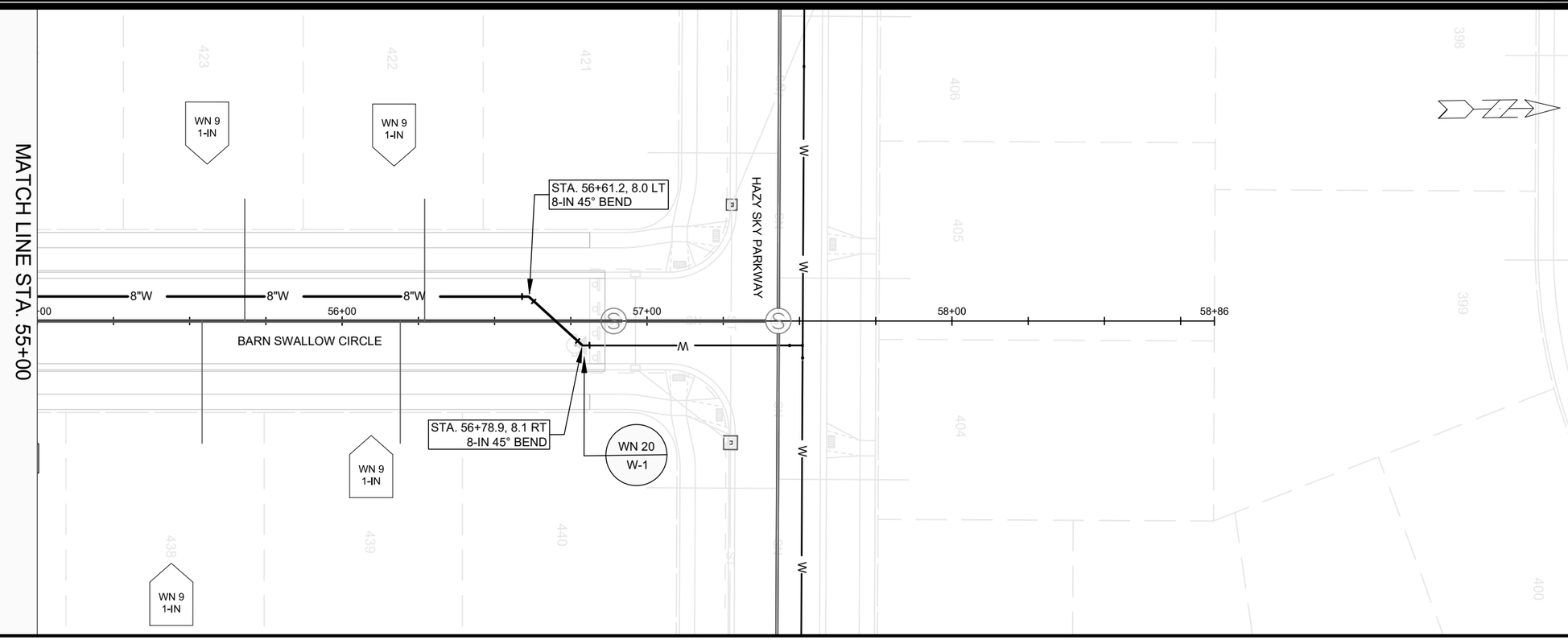
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 6

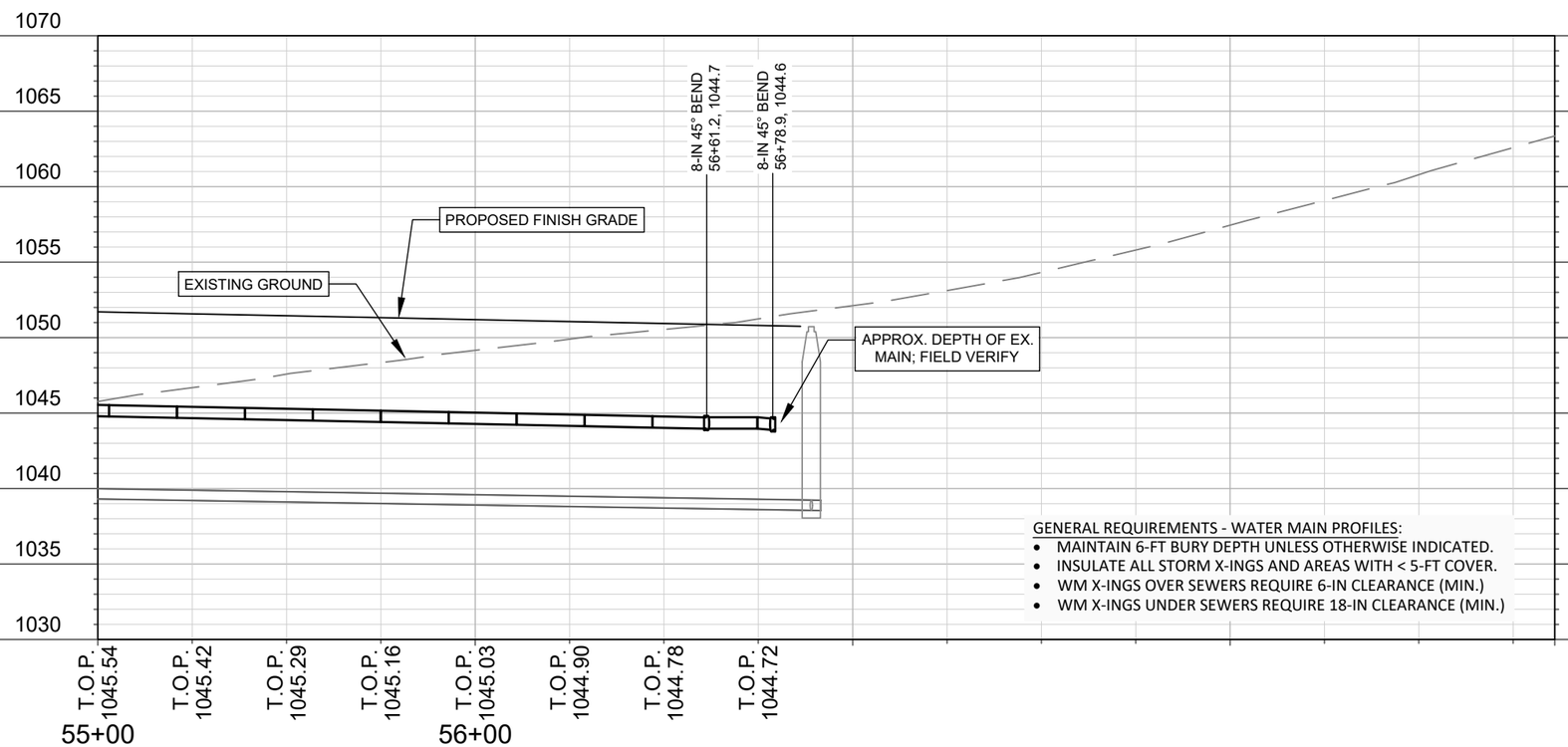
WATER PLAN & PROFILE BARN SWALLOW CIRCLE

CITY OF MADISON, WISCONSIN

14343

W-1





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SCALE: 1" = 40'
DESIGNED BY: TDP
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:4/5/23

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 6

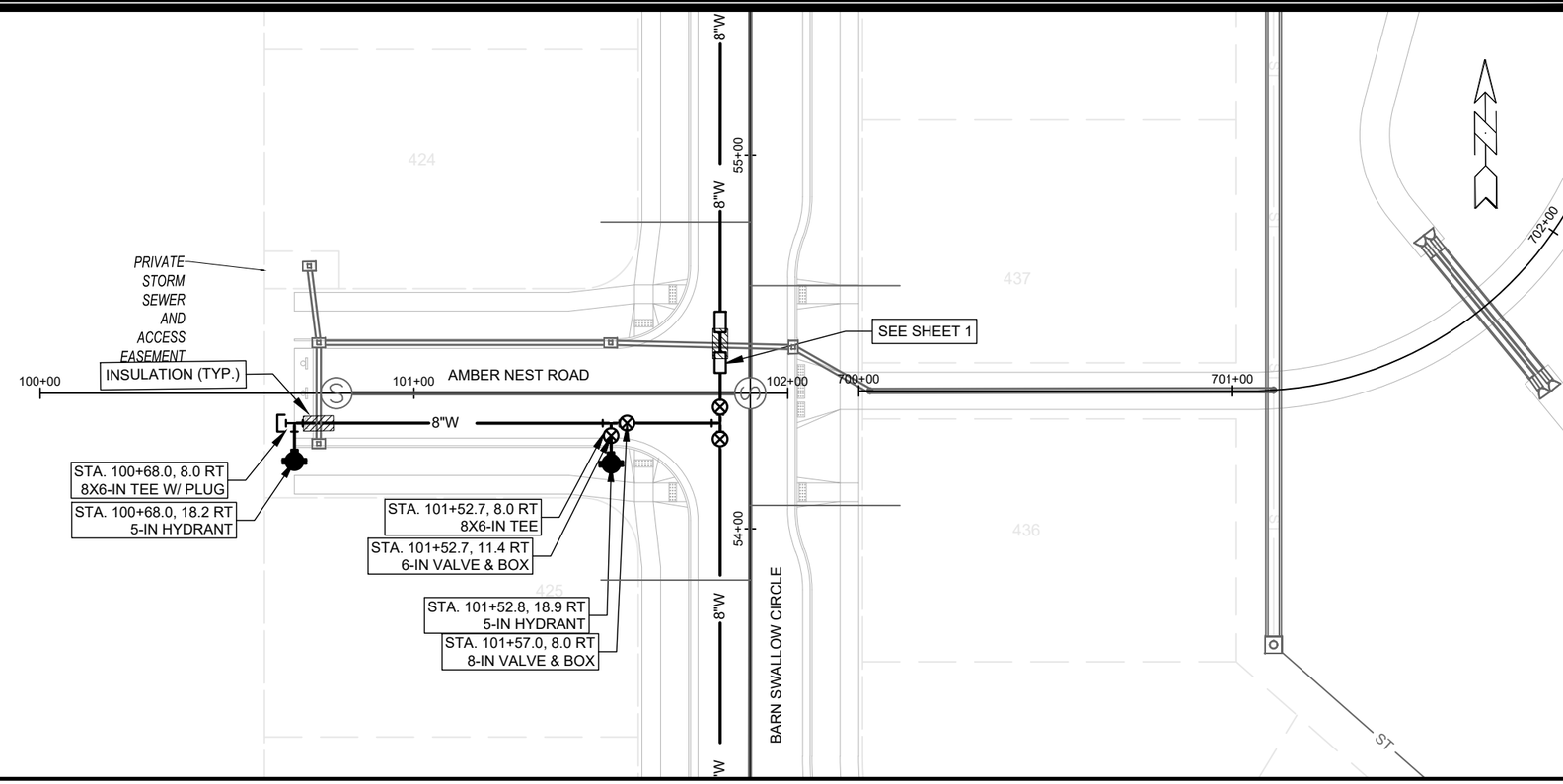
WATER PLAN & PROFILE BARN SWALLOW CIRCLE

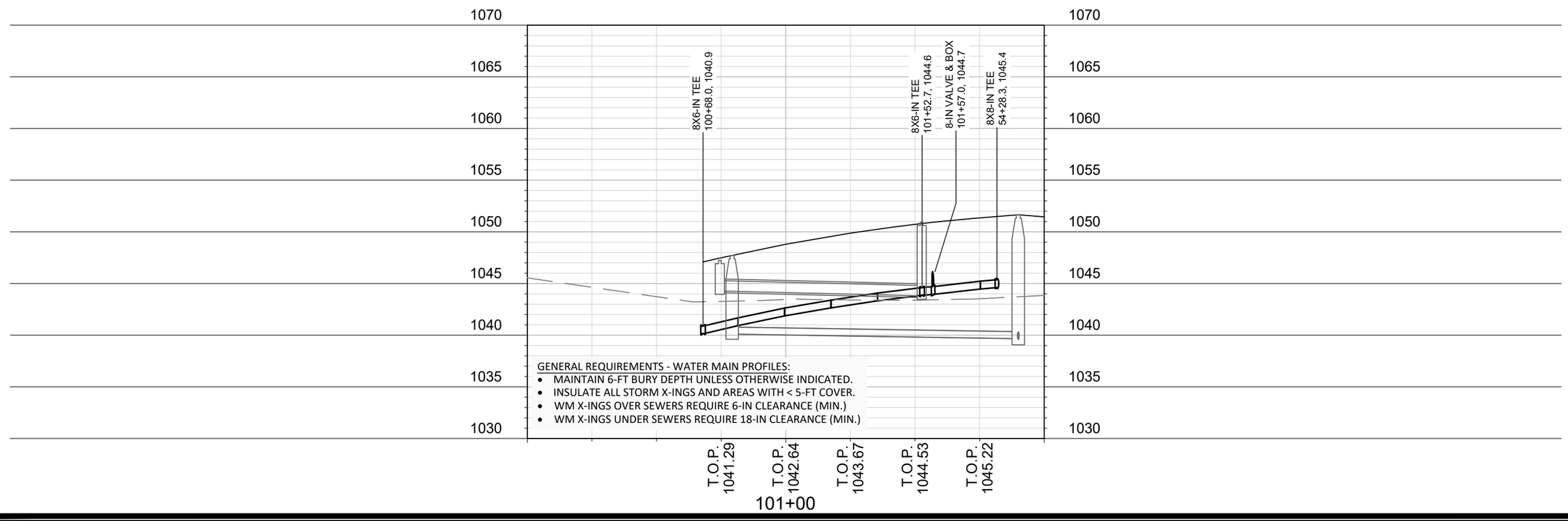
CITY OF MADISON, WISCONSIN

CONTRACT NO: 9127

14343

W-2





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- INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
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- WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

SCALE: 1" = 40'
DESIGNED BY: TDP
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:4/5/23

CONTRACT NO: 9127

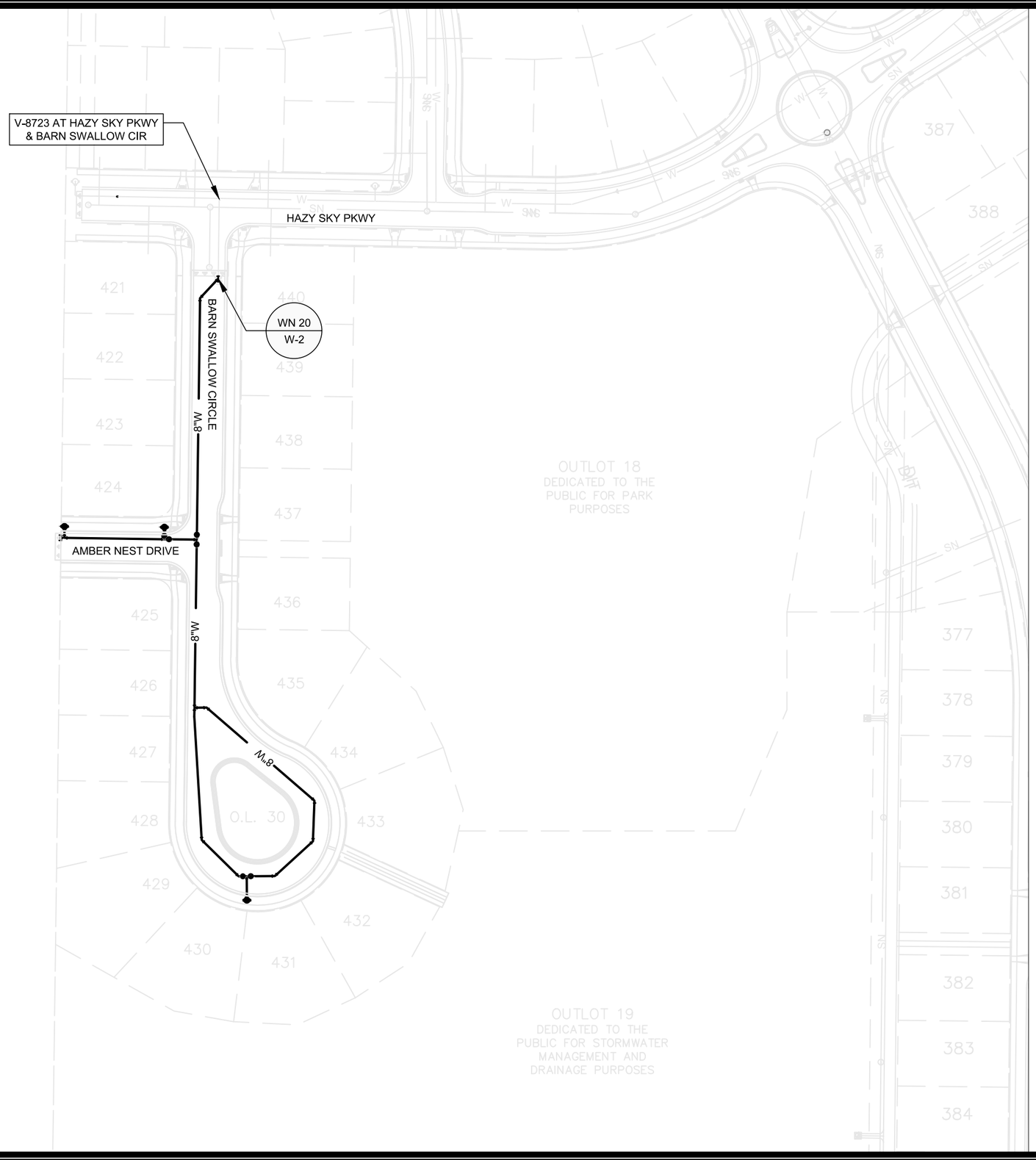
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 6

WATER PLAN & PROFILE AMBER NEST ROAD

CITY OF MADISON, WISCONSIN

14343

W-3



1" = 100'

Madison Water Utility

WN20 W-2: CONNECTION TO EXISTING 8-IN AT BARN SWALLOW CIRCLE
SALVAGE AND RELOCATE EX HYDRANT, PRESSURE TEST EXISTING SUB PRIOR TO CONNECTION.
ISOLATION VALVE: V-8723 ST BARN SWALLOW CIRCLE AT HAZY SKY PARKWAY
NOTIFICATIONS: NONE REQUIRED

DISCLAIMER NOTE:
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES TO AID PLANNING CONNECTION POINT ISOLATION AND PREPARING NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

SCALE: 1" = 100'
DESIGNED BY: TDP
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 12/13/2022

SOUTHERN ADDITION TO BIRCHWOOD POIINT PHASE 6

WATER IMPACT PLAN CONNECTION AT BARN SWLLOW CIRCLE

CITY OF MADISON, WISCONSIN

CONTRACT NO: 9127

14343

W-4

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Madison Water Utility

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 CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.

WN1	REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
WN-2	EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.
WN-3	EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.
WN-4	DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.
WN-5	RELOCATE THE EXISTING FIRE HYDRANT.
WN-6	ABANDON WATER VALVE ACCESS STRUCTURE.
WN-7	FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
WN-8	ABANDON THE VALVE BOX.
WN-9	FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
WN-10	REMOVE AND SALVAGE EXISTING HYDRANT
WN-11	REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE
WN-20+	SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

WATER UTILITY ULO SCHEDULE

ULO	UTILITY	STATION	OFFSET	SHEET

*ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

PAY ITEM ID	DESCRIPTION	QUANTITY	UNIT
70002	FURNISH AND INSTALL 6-INCH PIPE & FITTINGS	40	LNFT
70003	FURNISH AND INSTALL 8-INCH PIPE & FITTINGS	960	LNFT
70031	FURNISH AND INSTALL 6-INCH WATER VALVE	1	EACH
70032	FURNISH AND INSTALL 8-INCH WATER VALVE	5	EACH
70040	FURNISH AND INSTALL AND SALVAGE HYDRANT	2	EACH
70050	FURNISH AND INSTALL 1-INCH SERVICE LATERALS	18	EACH
70101	FURNISH AND INSTALL INSULATION	2	EACH
71014	8-IN MJ PLUG	1	EACH
71123	8-IN 45° BEND	8	EACH
71146	6-IN 11-1/4° BEND	1	EACH
71210	8X6-IN TEE	3	EACH
71211	8X8-IN TEE	2	EACH
71340	8X12-IN OFFSET	2	EACH
*ESTIMATE OF MATERIALS SALVAGED:			
70040	SALVAGE AND RELOCATE EX. HYDRANT	1	EACH
71159	8X6-IN REDUCER	1	EACH

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.

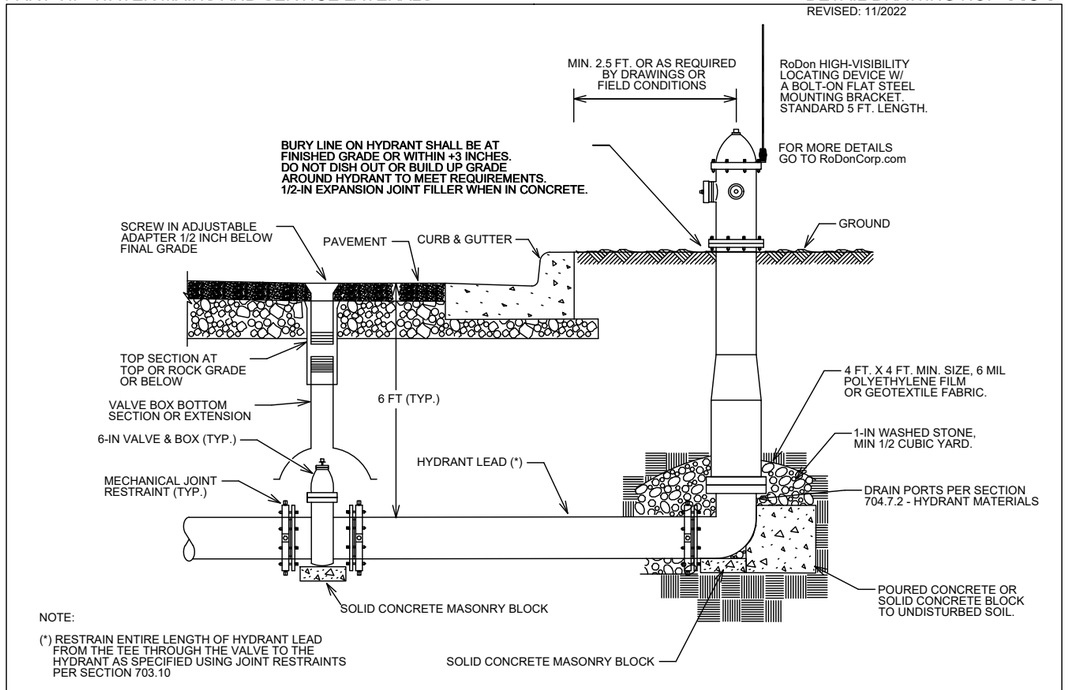
MEMBER ONE CALL SYSTEMS INTERNATIONAL

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: 11/2022



NOTE:

(*) 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

SCALE: N/A
DESIGNED BY: TDP
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:3/3/23

CONTRACT NO: 9127

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 6

WATER ESTIMATE OF MATERIALS

CITY OF MADISON, WISCONSIN

CITY OF MADISON WISCONSIN

14343

W-5

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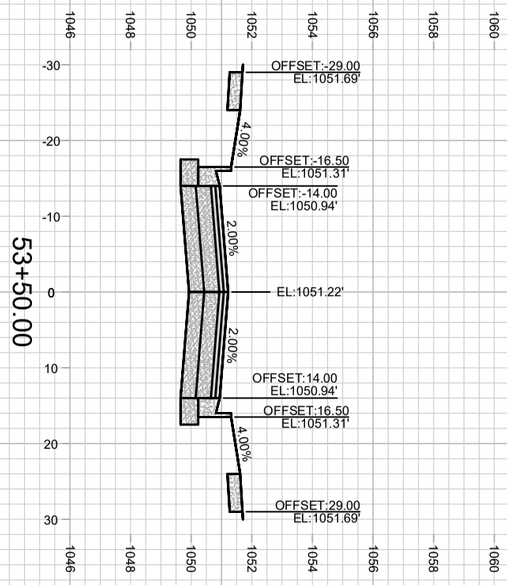

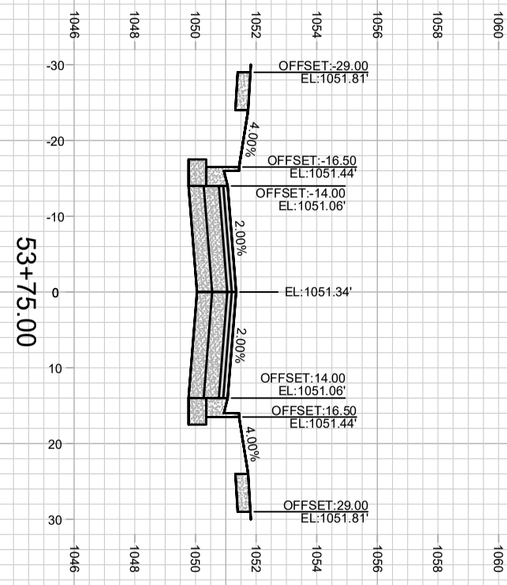

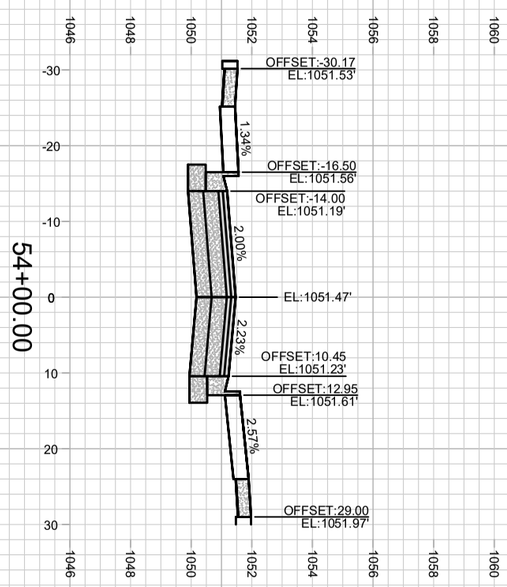

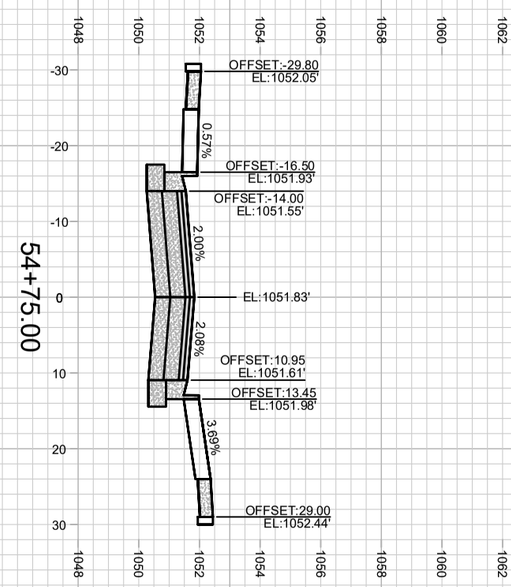

X-1

14343

CROSS SECTIONS - BARN SWALLOW CIRCLE 14343

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6 MADISON, WI

M:\DESIGN\Projects\14343\CAD\Streets\14343EN-Corridor.dwg CONTRACT NO: 9217

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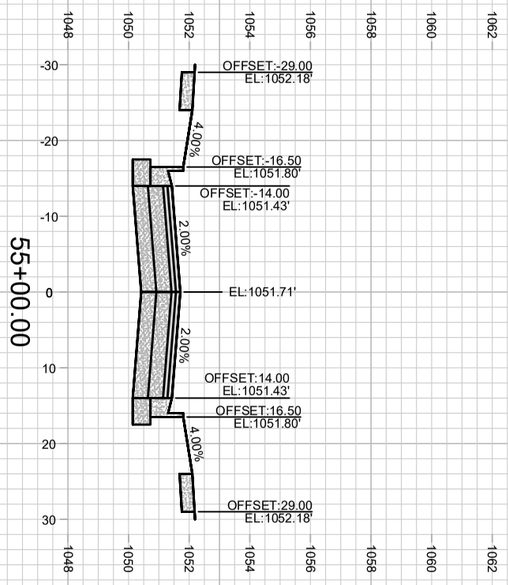
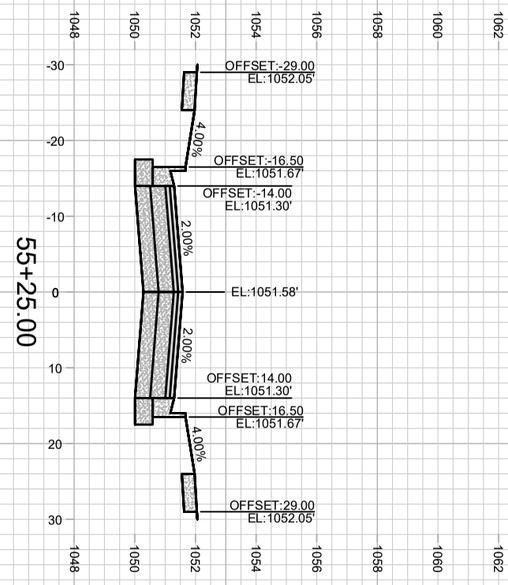
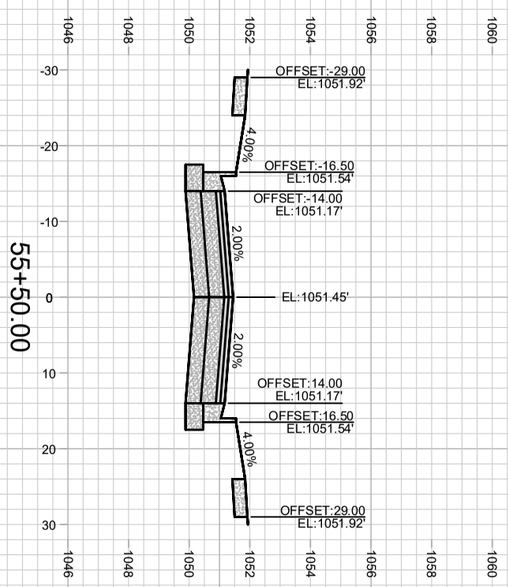
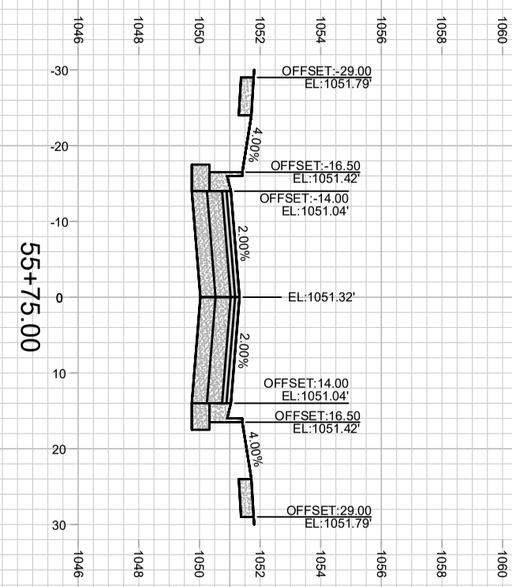
Designed By: EEA | Date: 1/6/2023 4:00 PM | Scale: ########

14343 X-1









X-2	14343	CROSS SECTIONS - BARN SWALLOW CIRCLE	14343
		SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6	MADISON, WI
		M:\DESIGN\Projects\14343\CAD\Streets\14343EN-Corridor.dwg	CONTRACT NO: 9217

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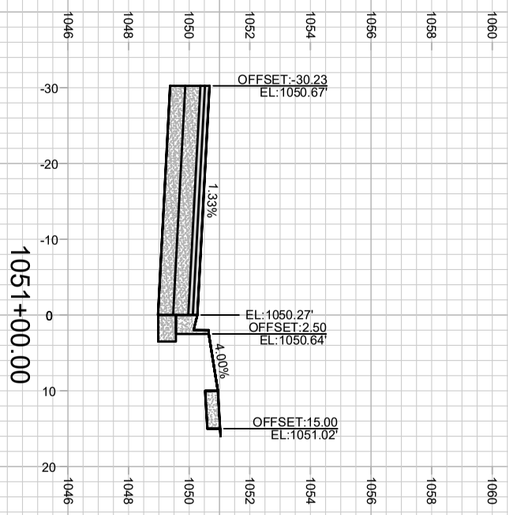
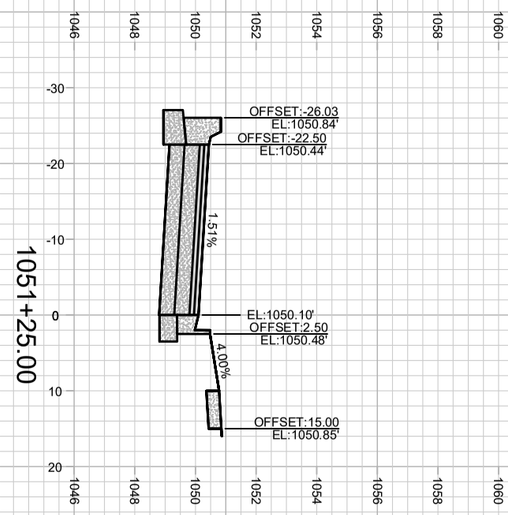
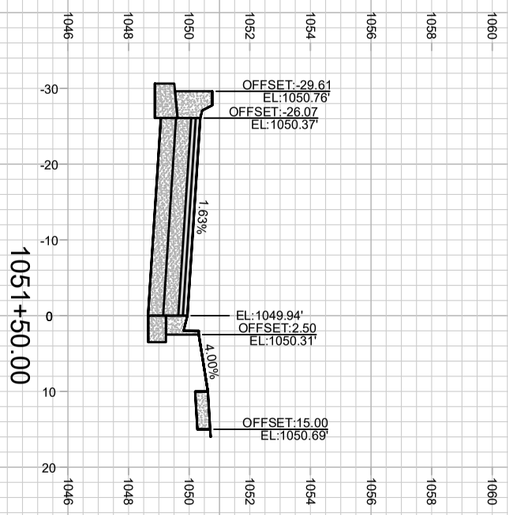
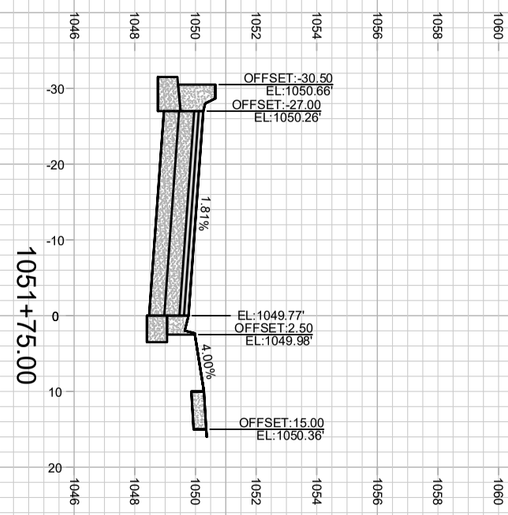
Designed By: EEA | Date: 1/6/2023 4:00 PM | Scale: ########

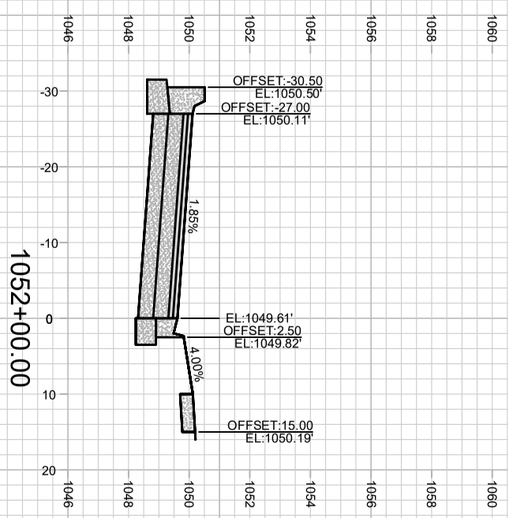
14343 | X-2

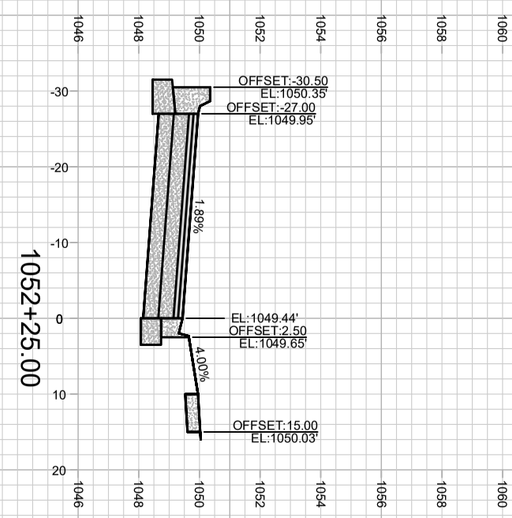












X-3

14343

CROSS SECTIONS - BARN SWALLOW CIRCLE CULDESAC 14343

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6 MADISON, WI

M:\DESIGN\Projects\14343\CAD\Streets\14343EN-Corridor.dwg CONTRACT NO: 9217

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Designed By: EEA | Date: 3/29/2023 2:44 PM | Scale: ########

14343 | X-3

1052+75.00

1053+25.00

1053+75.00

1052+50.00

1053+00.00

1053+50.00

MARK	REVISION	DATE	BY
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Designed By: EEA | Date: 3/29/2023 2:44 PM | Scale: ########

14343

CROSS SECTIONS - BARN SWALLOW CIRCLE CULDESAC

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

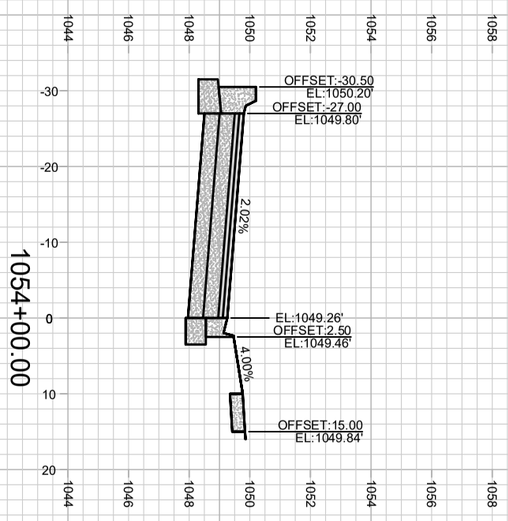
MADISON, WI

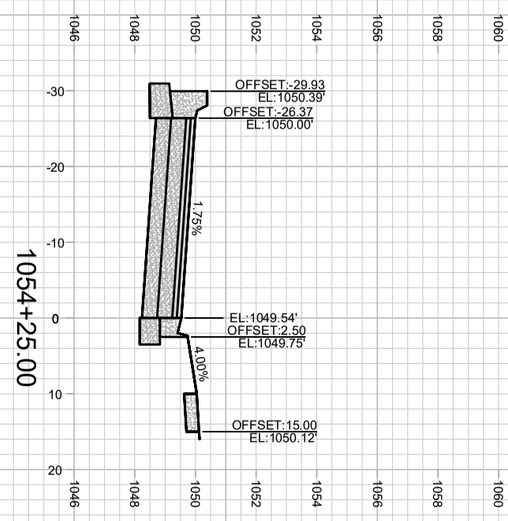
CONTRACT NO: 9217

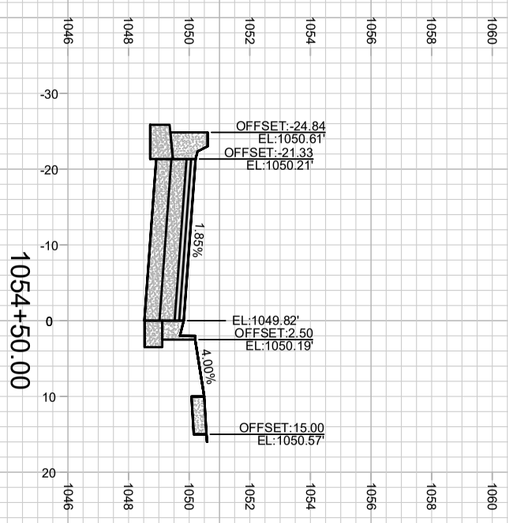
M:\DESIGN\Projects\14343\CAD\Streets\14343EN-Corridor.dwg

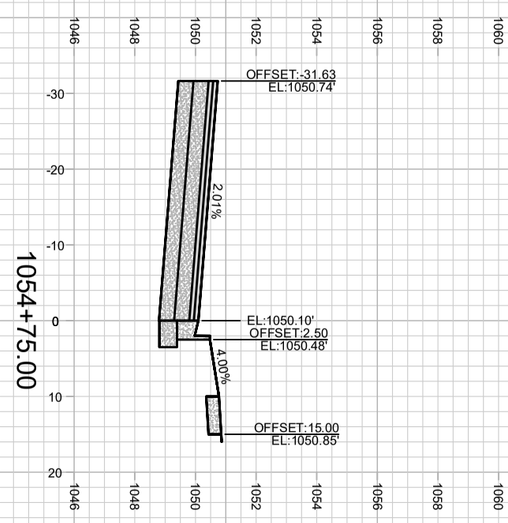
14343

X-4









X-5

14343

CROSS SECTIONS - BARN SWALLOW CIRCLE CULDESAC 14343

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6 MADISON, WI

M:\DESIGN\Projects\14343\CAD\Streets\14343EN-Corridor.dwg CONTRACT NO: 9217

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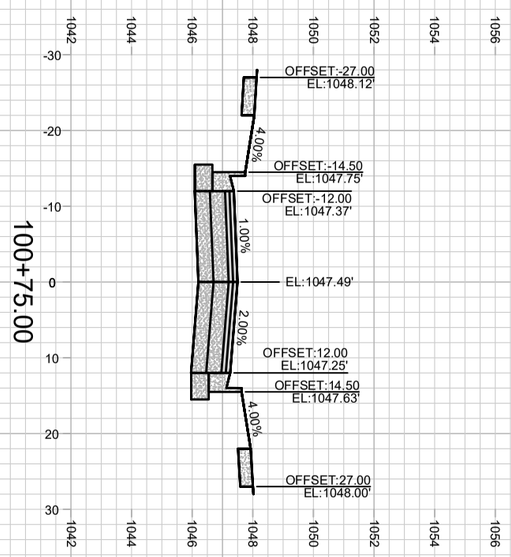
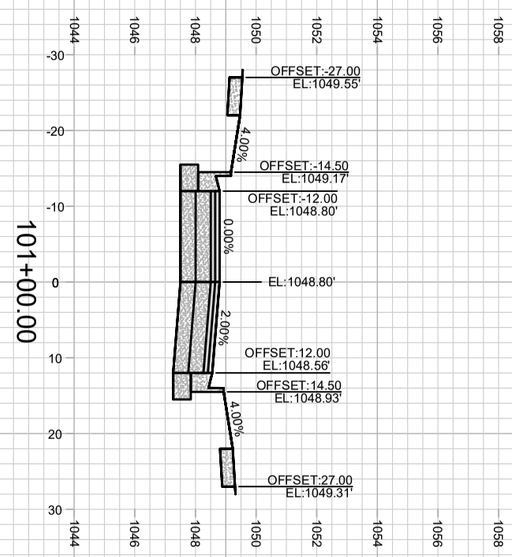
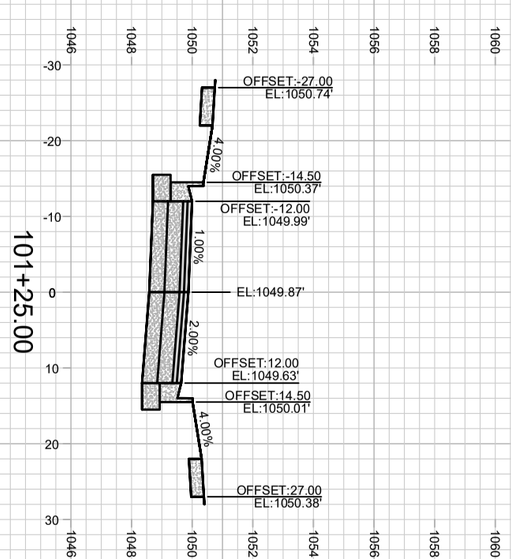
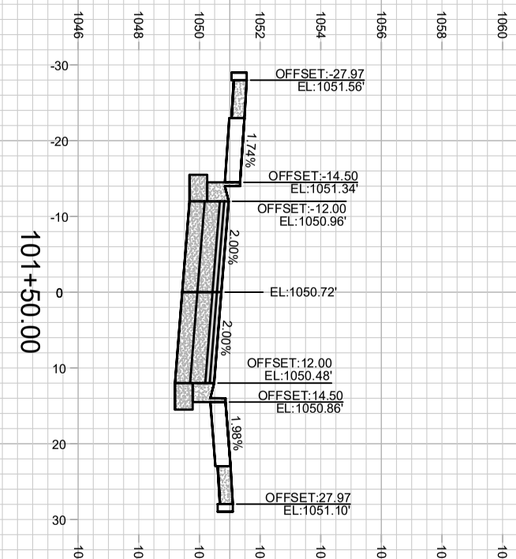
Designed By: EEA | Date: 3/29/2023 2:44 PM | Scale: ########

14343 | X-5









X-6

14343

CROSS SECTIONS - AMBER NEST ROAD 14343

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6 MADISON, WI

M:\DESIGN\Projects\14343\CAD\Streets\14343EN-Corridor.dwg CONTRACT NO: 9217

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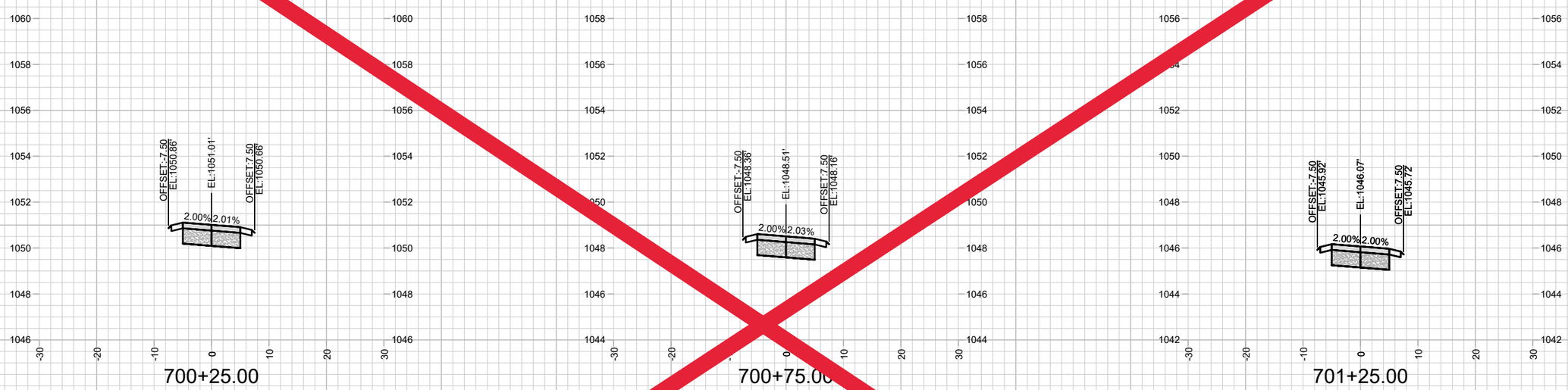
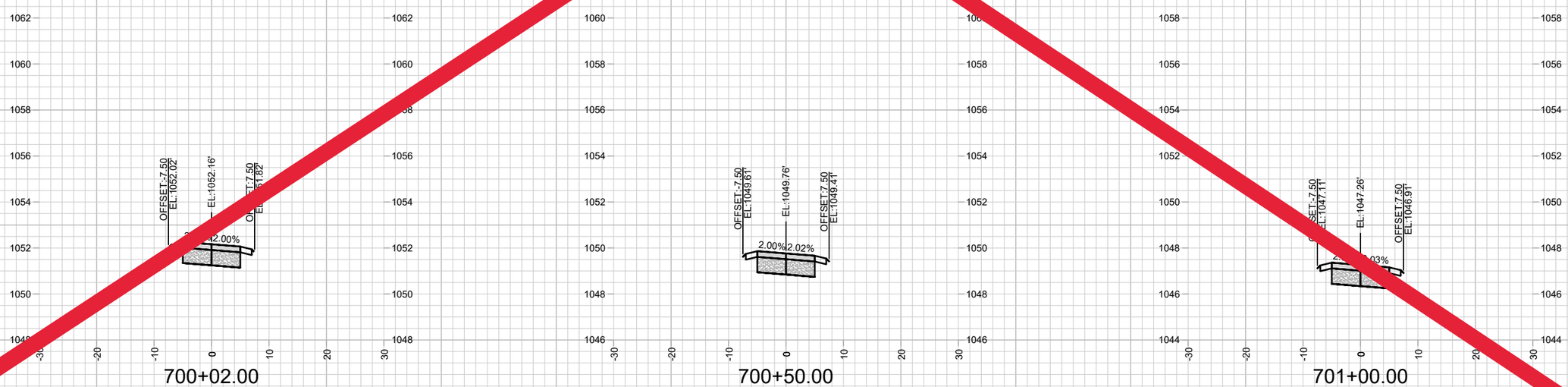
14343 X-6

DO NOT BUILD PATH OR CULVERT
IMPROVEMENTS WITHIN THE
PARK UNTIL A REVISION IS SSUED
AT A LATER DATE





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Date: 1/6/2023 4:00 PM
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14343

CROSS SECTIONS - BIKE PATH

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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14343

X-7

DO NOT BUILD PATH OR CULVERT
IMPROVEMENTS WITHIN THE
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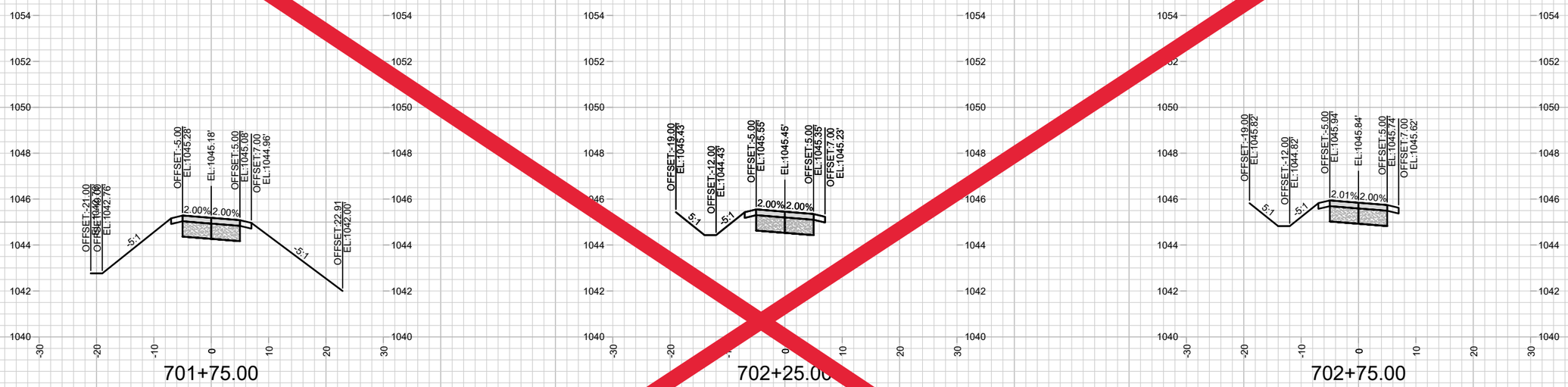
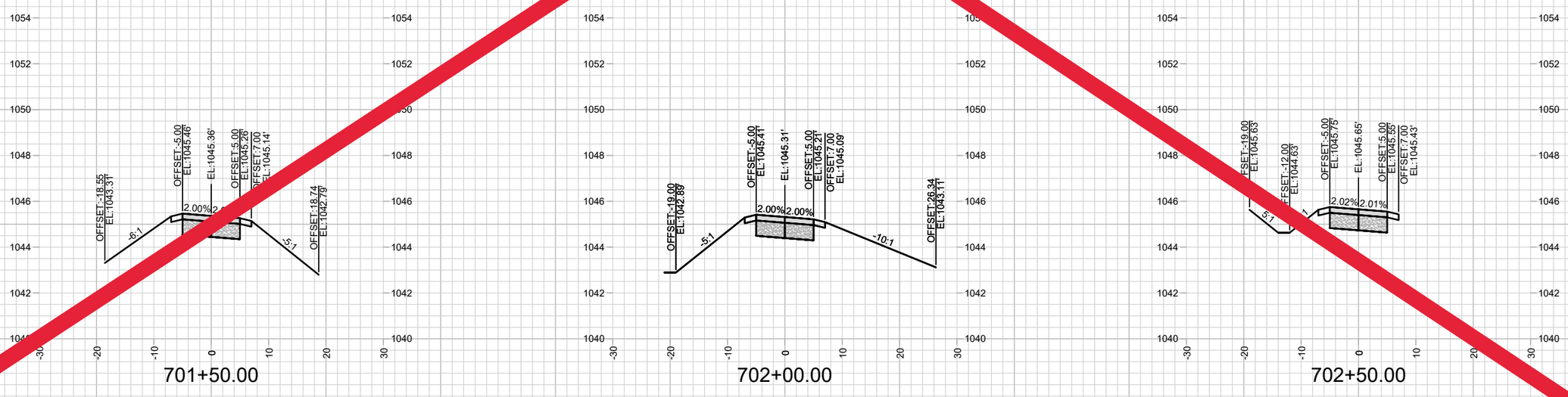
AT A LATER DATE





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Date: 1/6/2023 4:00 PM
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14343

CROSS SECTIONS - BIKE PATH

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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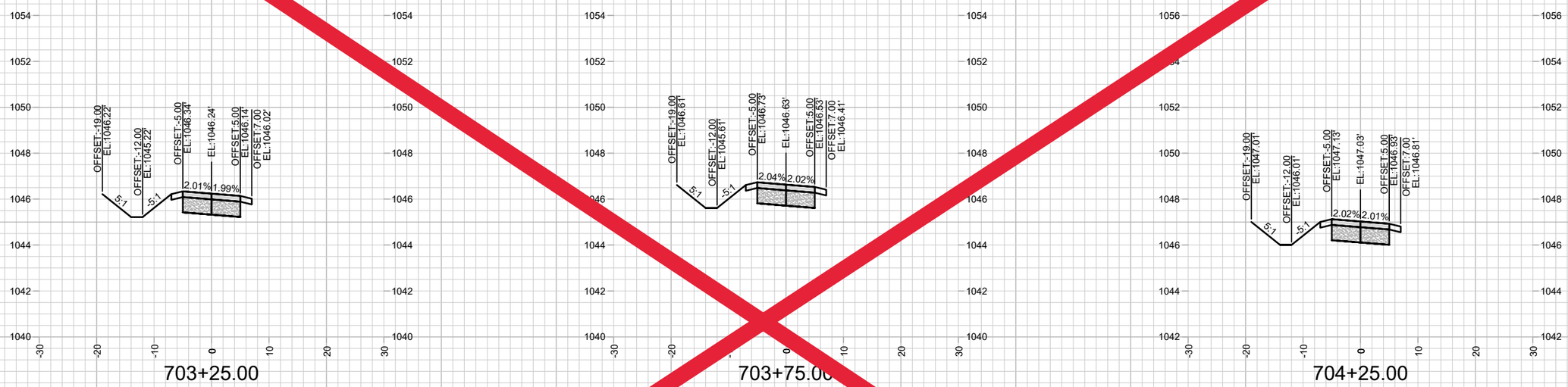
14343

X-8

DO NOT BUILD PATH OR CULVERT
IMPROVEMENTS WITHIN THE
PARK UNTIL A REVISION IS SSUED
AT A LATER DATE



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14343

CROSS SECTIONS - BIKE PATH

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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14343

X-9

DO NOT BUILD PATH OR CULVERT
IMPROVEMENTS WITHIN THE
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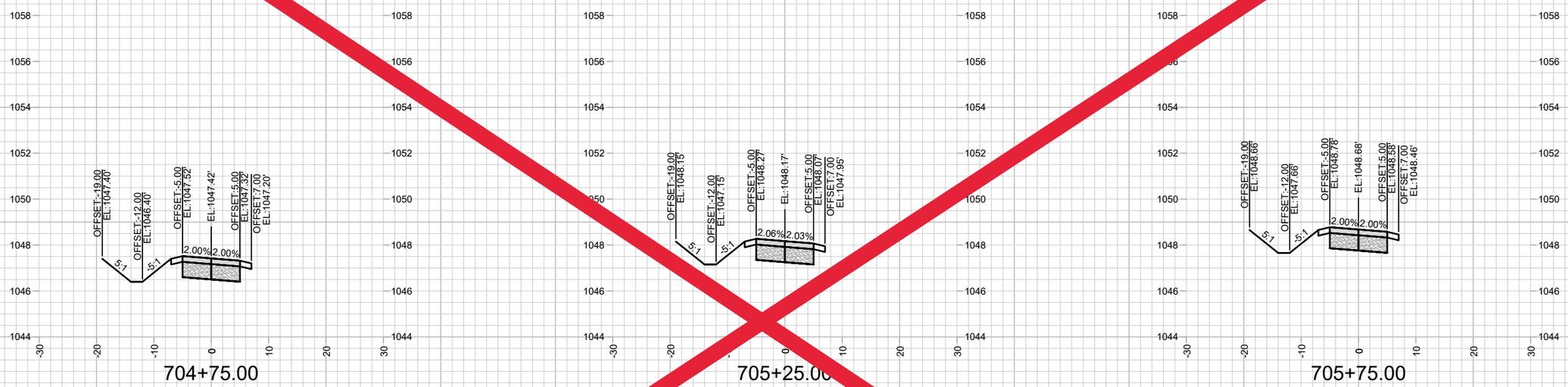
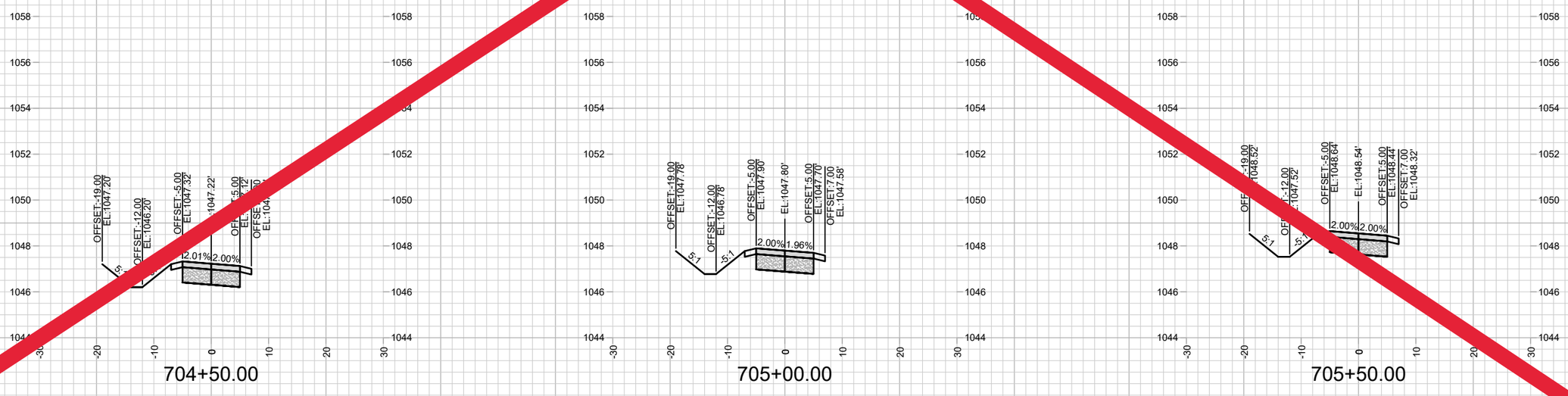
AT A LATER DATE





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14343

CROSS SECTIONS - BIKE PATH

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

M:\DESIGN\Projects\14343\CAD\Streets\14343EN-Corridor.dwg

14343

X-10

DO NOT BUILD PATH OR CULVERT
IMPROVEMENTS WITHIN THE
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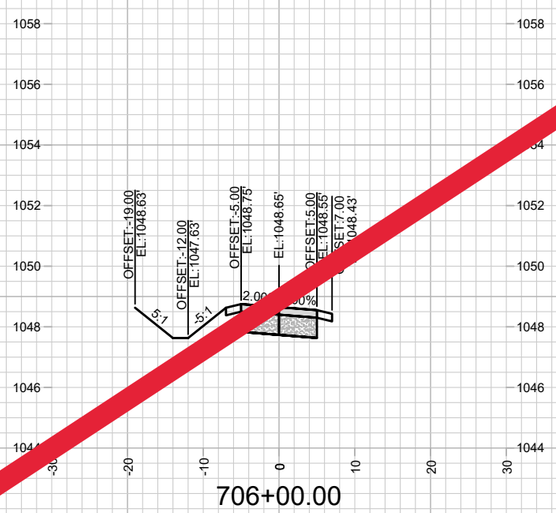
AT A LATER DATE



706+00.00

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Designed By: EEA
Date: 1/6/2023 4:00 PM
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14343

CROSS SECTIONS - BIKE PATH

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

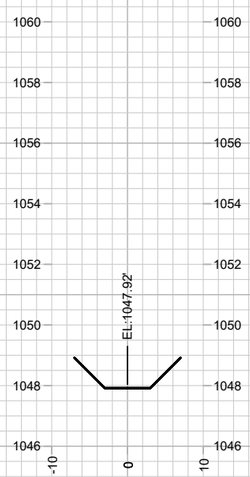
MADISON, WI

CONTRACT NO: 9217

M:\DESIGN\Projects\14343\CAD\Streets\14343EN-Corridor.dwg

14343

X-11



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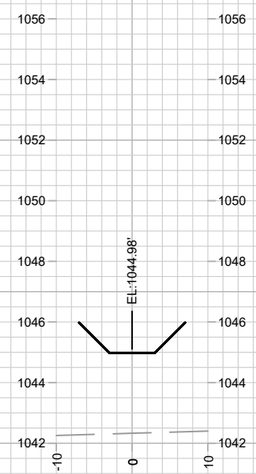

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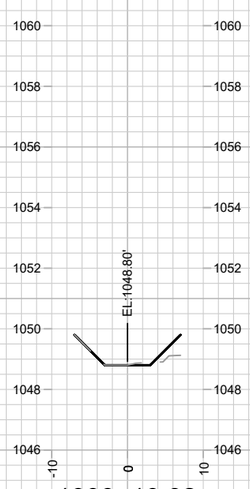

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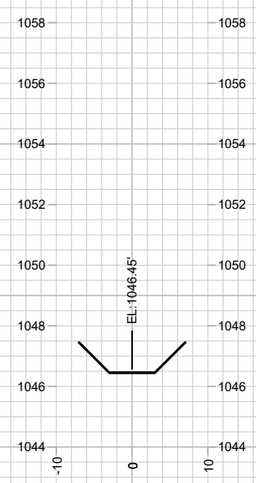

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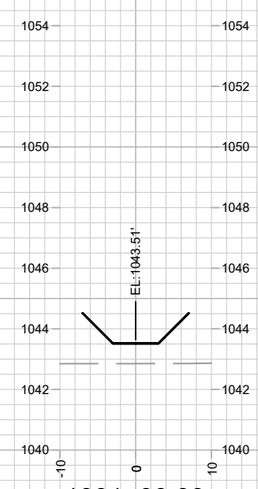

1001+00.00

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Designed By: EEA | Date: 1/6/2023 4:00 PM | Scale: ########

14343

14343

CROSS SECTIONS - STORMSEWER EASEMENT CHANNEL

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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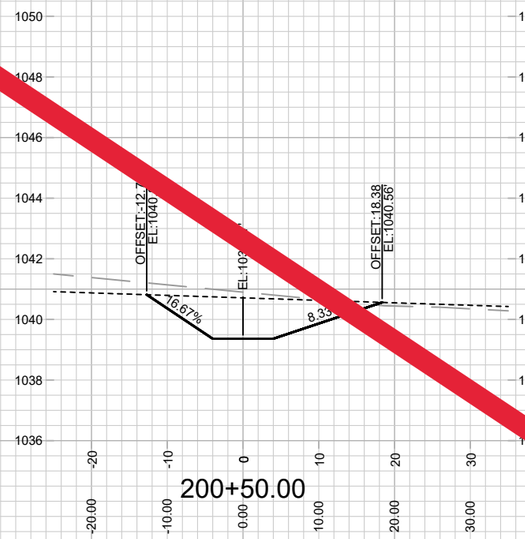
14343

X-12

DO NOT BUILD PATH OR CULVERT IMPROVEMENTS WITHIN THE PARK UNTIL A REVISION IS SSUED AT A LATER DATE



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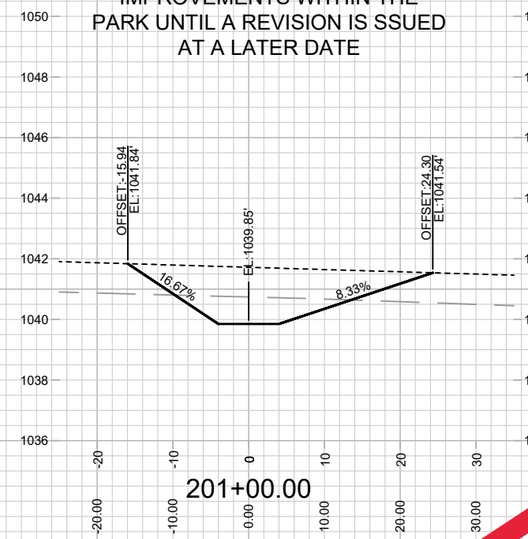

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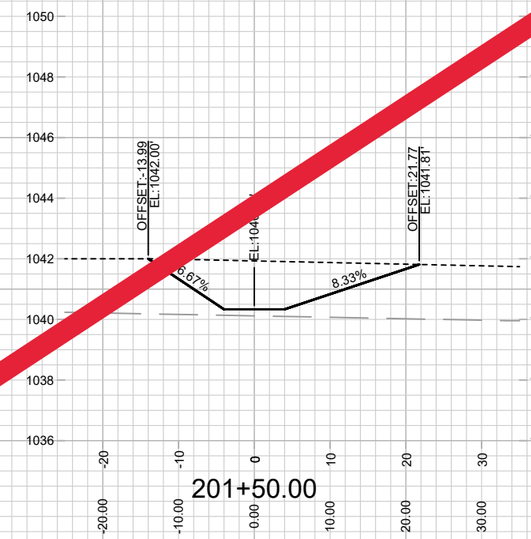

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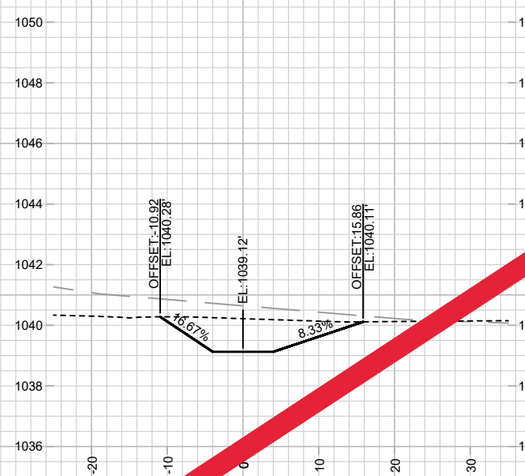

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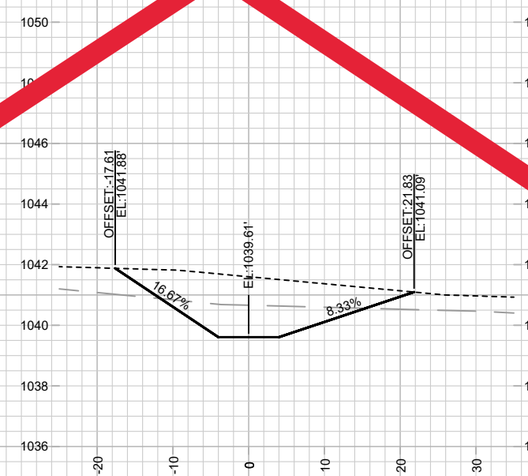

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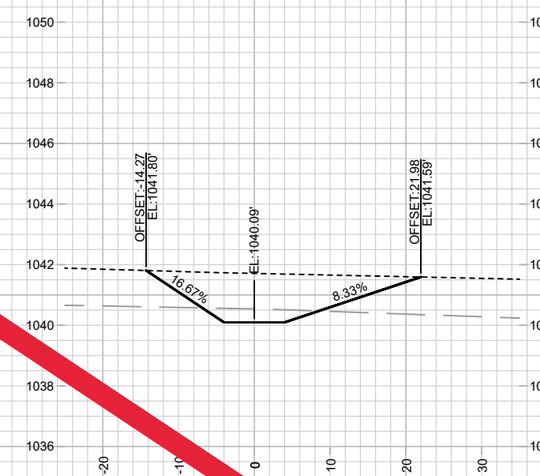

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14343

X-13

14343

MADISON, WI

CONTRACT NO: 9217

CROSS SECTIONS - PARK GRADING

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

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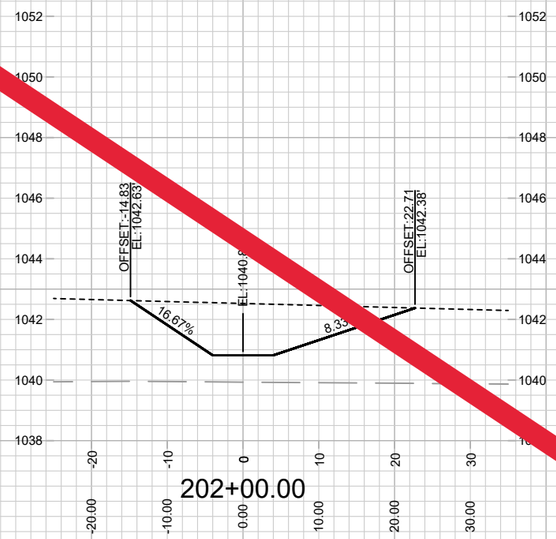
14343

X-13

DO NOT BUILD PATH OR CULVERT IMPROVEMENTS WITHIN THE PARK UNTIL A REVISION IS SSUED AT A LATER DATE



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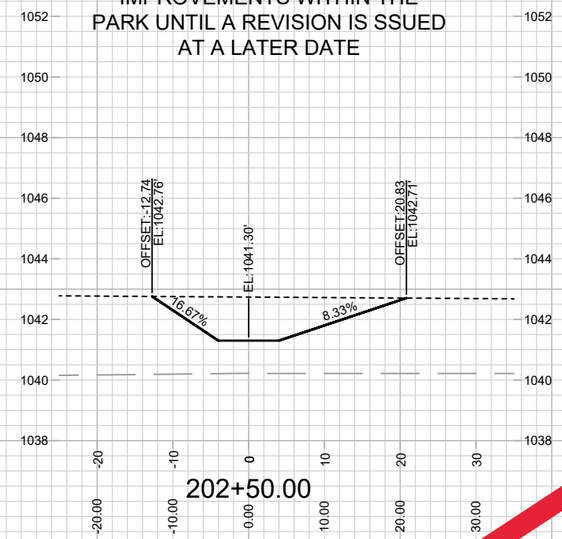

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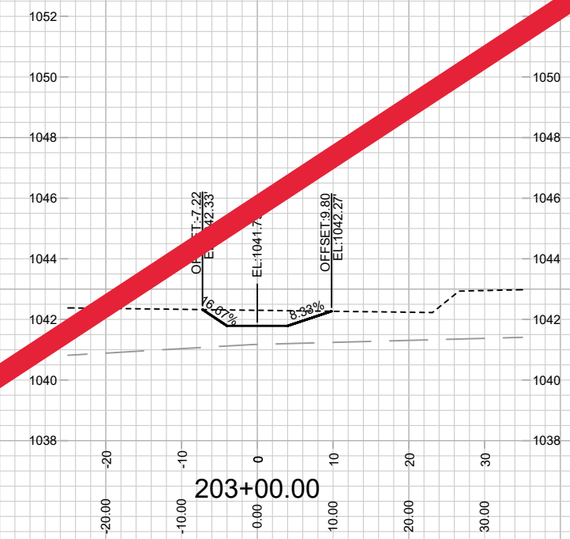

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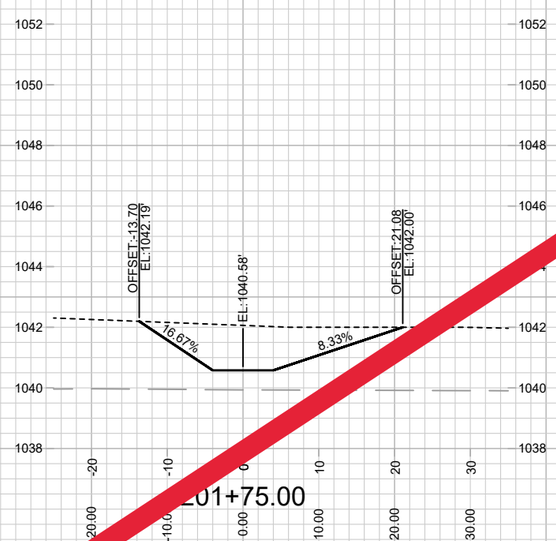

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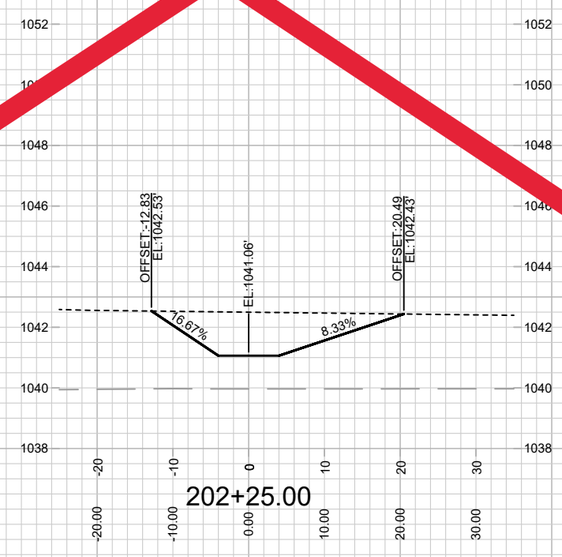

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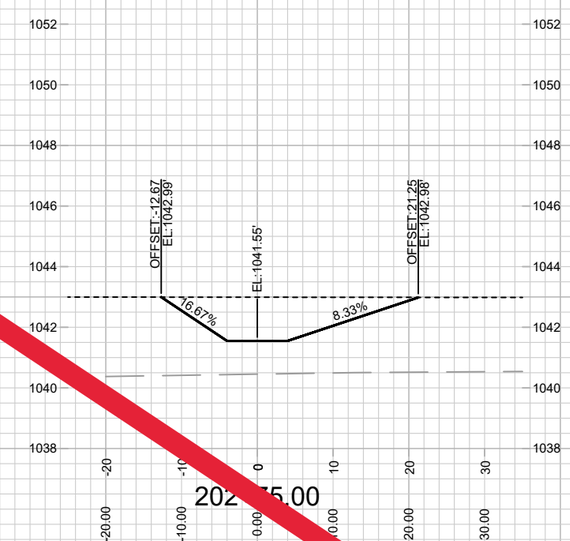

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MADISON, WI

CONTRACT NO: 9217

CROSS SECTIONS - PARK GRADING

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

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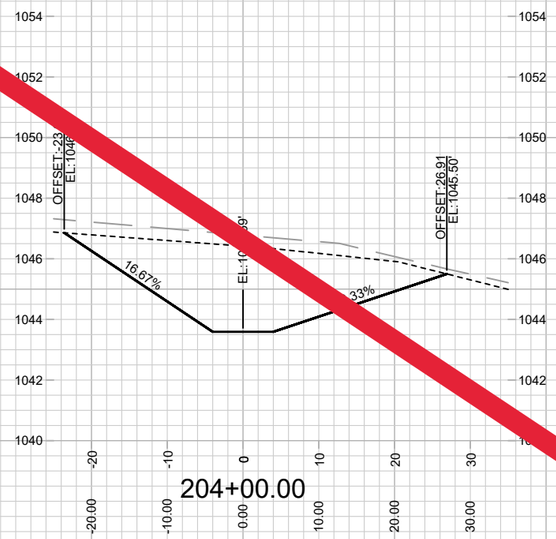
CITY OF MADISON WISCONSIN

14343

X-14

DO NOT BUILD PATH OR CULVERT IMPROVEMENTS WITHIN THE PARK UNTIL A REVISION IS SSUED AT A LATER DATE



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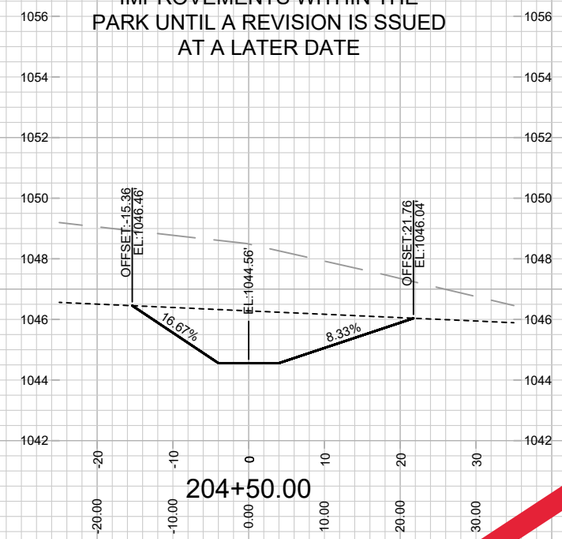

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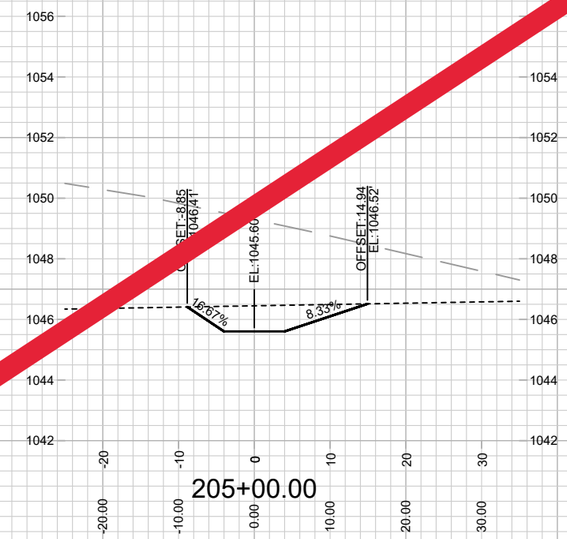

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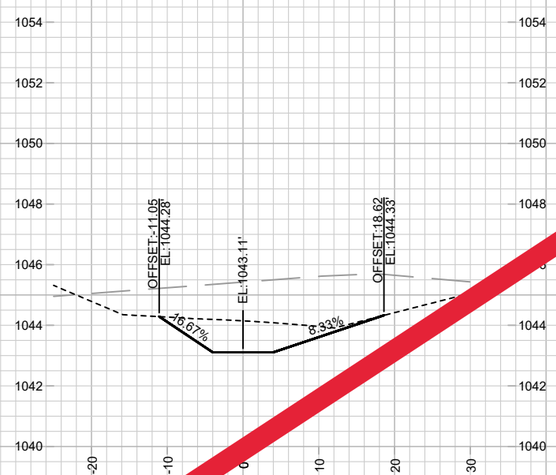

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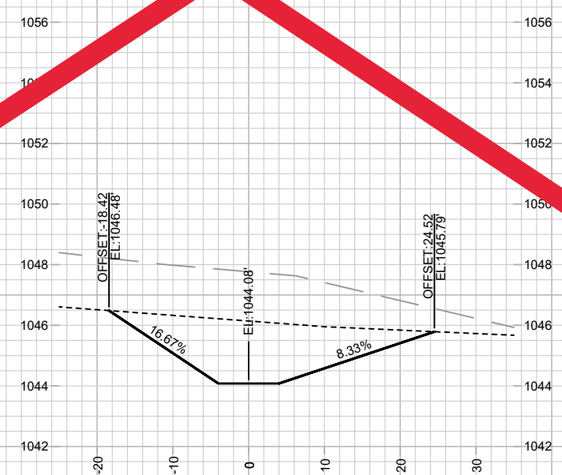

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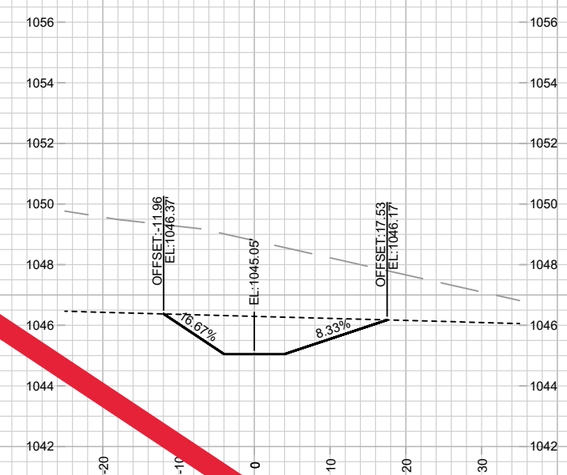

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CROSS SECTIONS - PARK GRADING

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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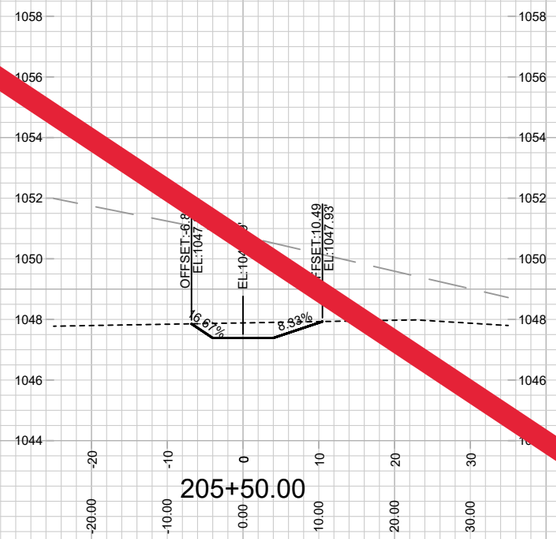
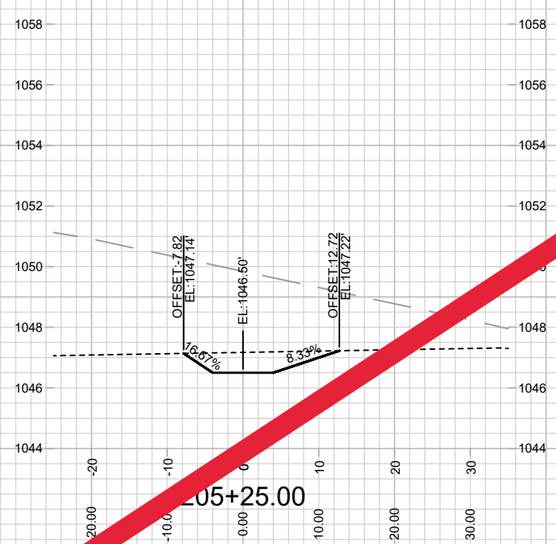
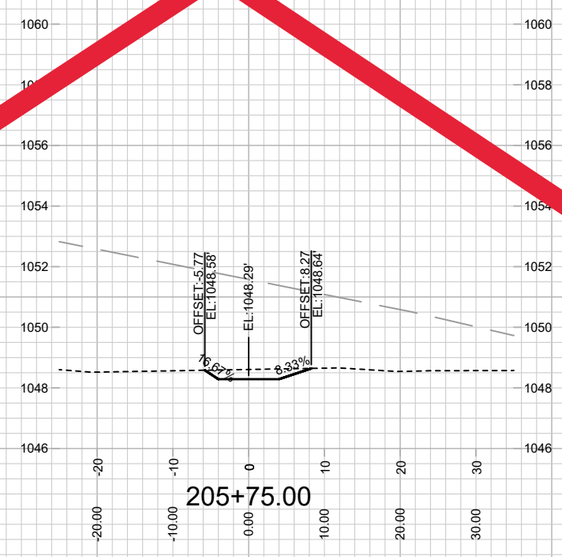
14343

X-15

DO NOT BUILD PATH OR CULVERT
IMPROVEMENTS WITHIN THE
PARK UNTIL A REVISION IS SSUED
AT A LATER DATE







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CROSS SECTIONS - PARK GRADING
SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6
MADISON, WI
CONTRACT NO: 9217

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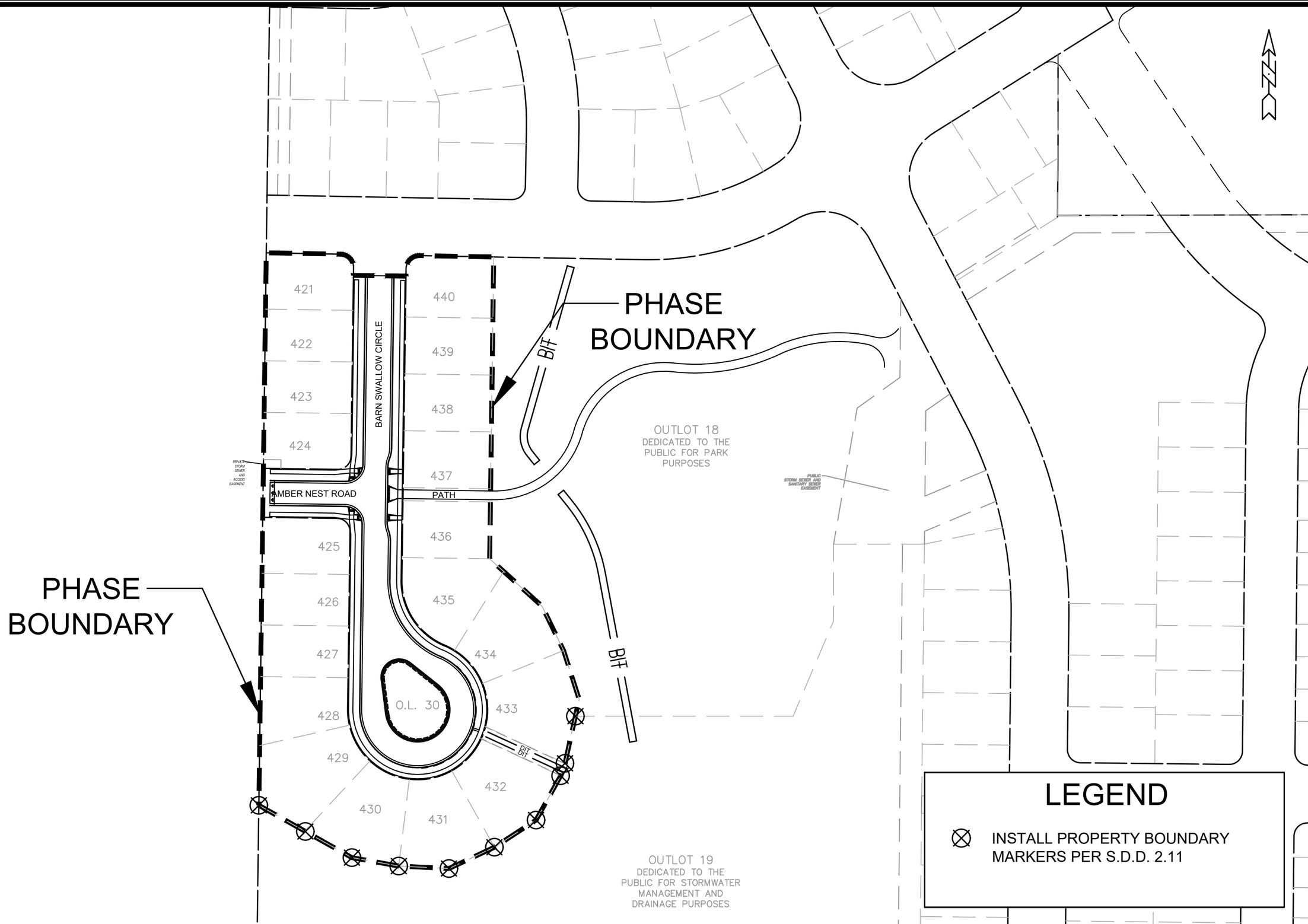

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MADISON, WI

CONTRACT NO: 9217

PROP. BOUNDARY MARKERS PLAN

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 6

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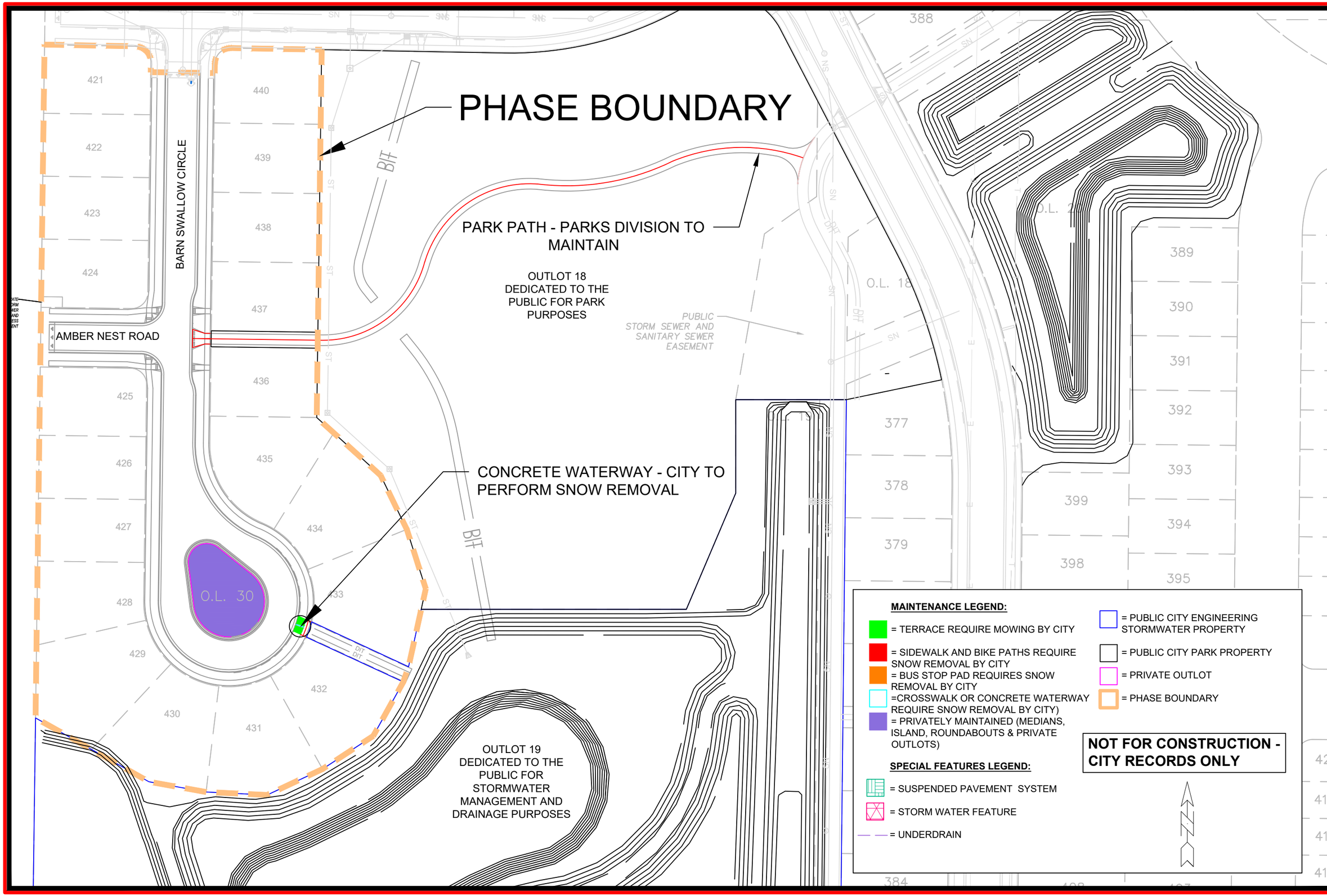

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14343

MAINTENANCE PLAN

SOUTHERN ADDITION TO BIRCHWOOD POINT - PHASE 6

MADISON, WI

CONTRACT NO: 9217

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