

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

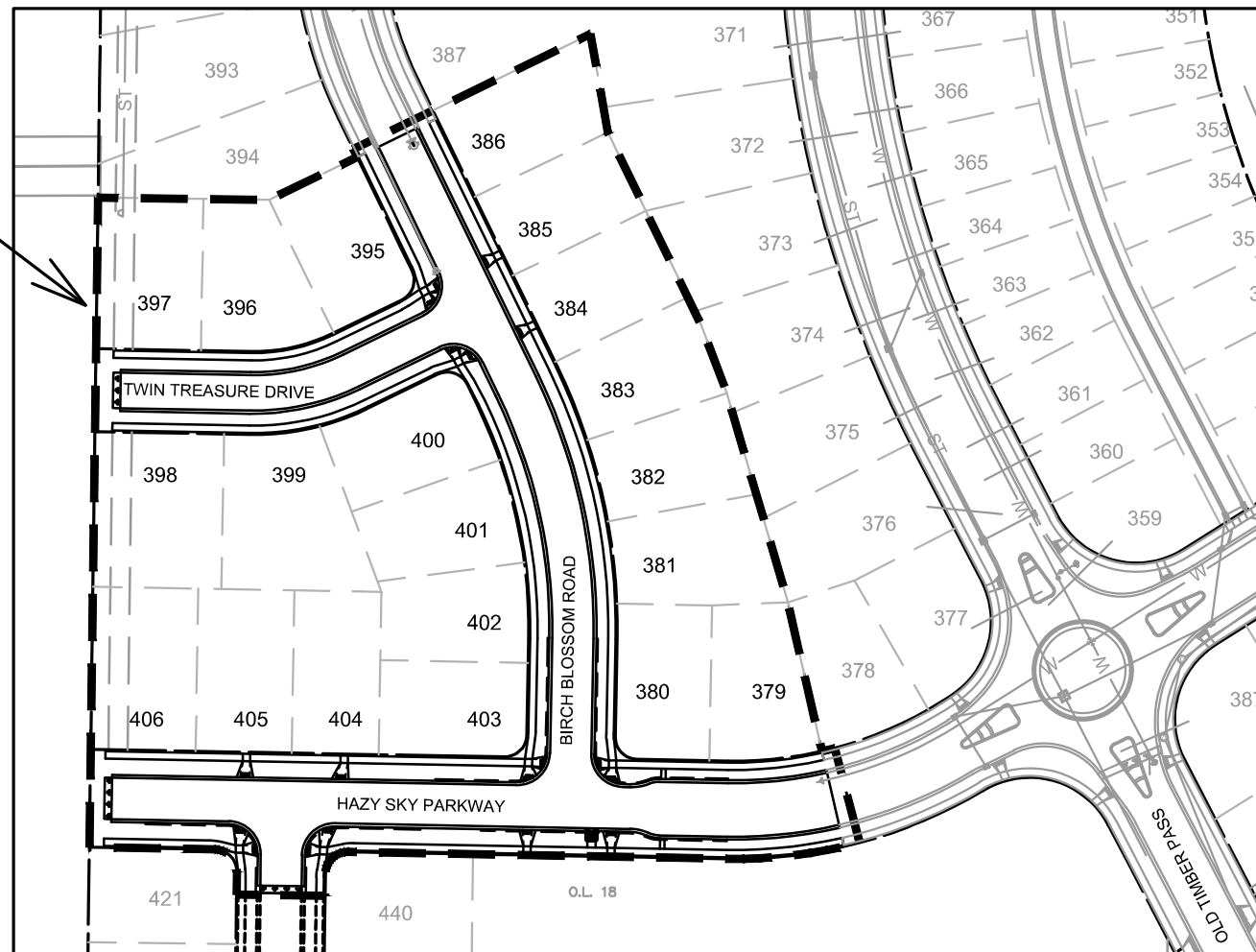
CITY PROJECT NO. 13852
CONTRACT NO. 9090

INDEX OF SHEETS

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REVISED 04/19/2022 BY LMC

PROJECT
LOCATION



PUBLIC IMPROVEMENT PROJECT
APPROVED

FEBRUARY 22, 2022

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

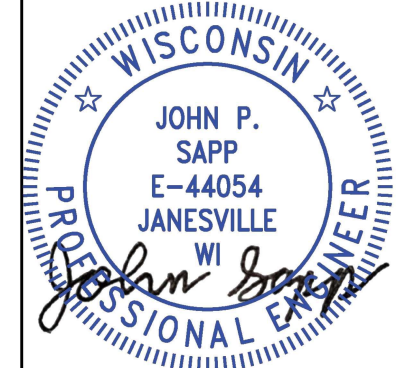
W- Greg Friss

Apr 11, 2022

City Engineer

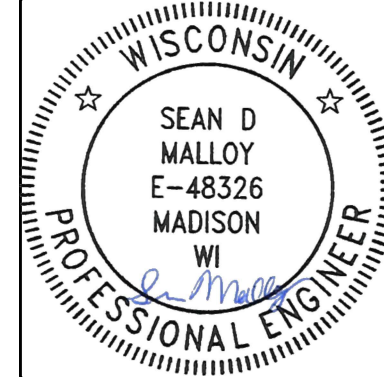
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STREET GRADES
DESIGNED BY:



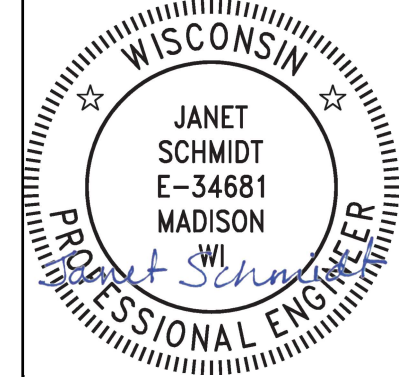
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STREET GEOMETRY
DESIGNED BY:



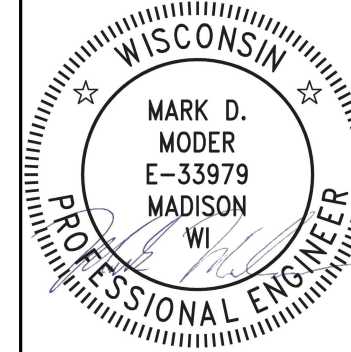
Apr 11, 2022

STORM SEWER
DESIGNED BY:



Apr 11, 2022

SANITARY SEWER
DESIGNED BY:



Apr 11, 2022

WATER
DESIGNED BY:



Apr 11, 2022

PLOT SCALE: 1:1_XREF

PLOT NAME: ---

REV. DATE: 4/1/2022 9:58 AM




ORIGINATOR: CITY_OF_MADISON

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](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 LUKAS COLLINS AT LCOLLINS@CITYOFMADISON.COM FOR CAD AND ALIGNMENT DATA PRIOR TO STAKING.

| CONVENTIONAL SIGNS | |
|---------------------------------------------------|--------------------------------------------------------------------------------------|
| FIELD VERIFY ALL UTILITY LOCATIONS | |
| GAS | —— G —— |
| STORM SEWER | —— ST —— |
| SANITARY SEWER | —— SN —— |
| 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, BIRCH BLOSSOM ROAD, AND TWIN TREASURE DRIVE RIGHT-OF-WAYS SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE HAZY SKY PARKWAY RIGHT-OF-WAY SHALL BE TYPE B 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 BE LESS THAN 0.5% AND SHALL DRAIN TOWARD STORM SEWER INLETS. 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.

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

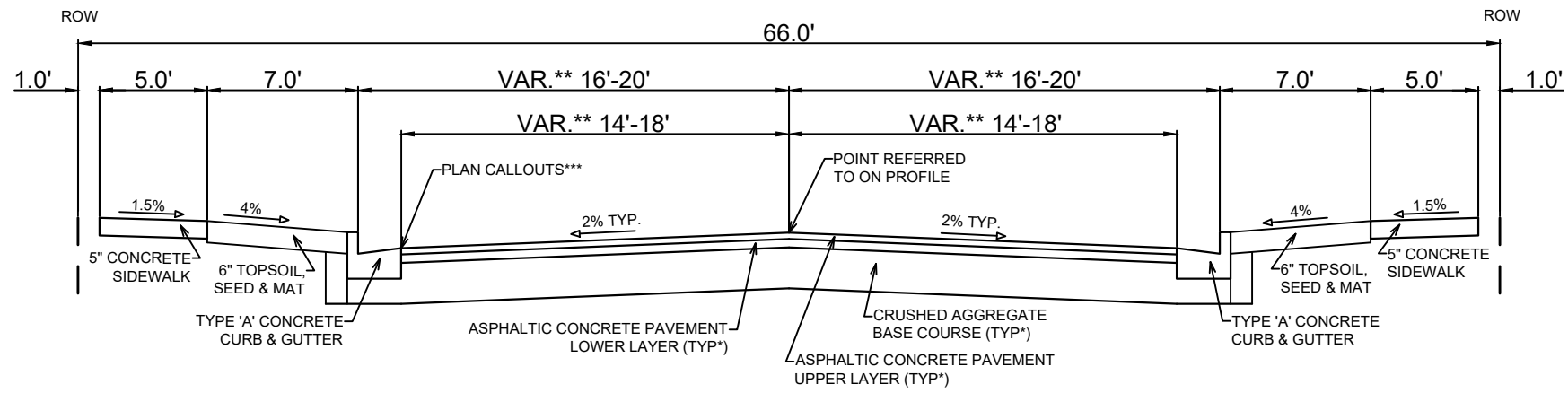
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MADISON, WI
9090
CONTRACT NO:

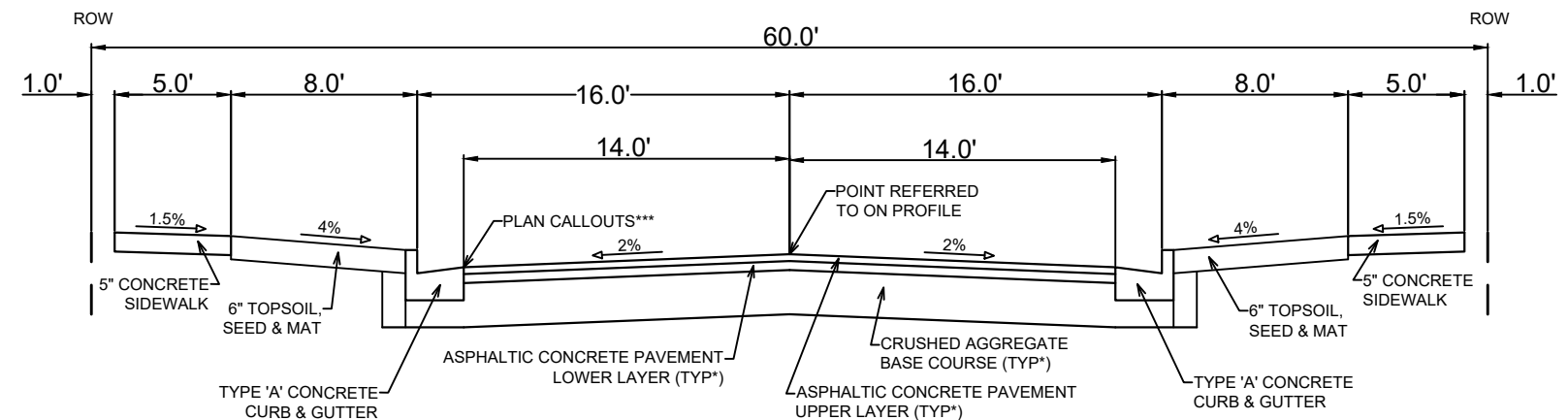
STANDARD NOTES
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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REVISED 4/19/2022 BY LMC



TYPICAL SECTION
HAZY SKY PARKWAY



TYPICAL SECTION
BIRCH BLOSSOM ROAD

NOTES:
* HAZY SKY PARKWAY SHALL BE CONSTRUCTED AS TYPE 'B' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN†

* BIRCH BLOSSOM SHALL BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN†

** SEE PLAN AND PROFILE FOR SLOPES, ELEVATIONS AND OFFSETS

*** STATION OFFSET ELEVATION CALLOUTS AT **EDGE OF PAVEMENT**

- THE DEVELOPER SHALL BE RESPONSIBLE FOR SURFACE PAVING PHASE 5 (CONTRACT NO. 9091).

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 | 3.50" | 4 MT 58-28 S/H | 2.00" |

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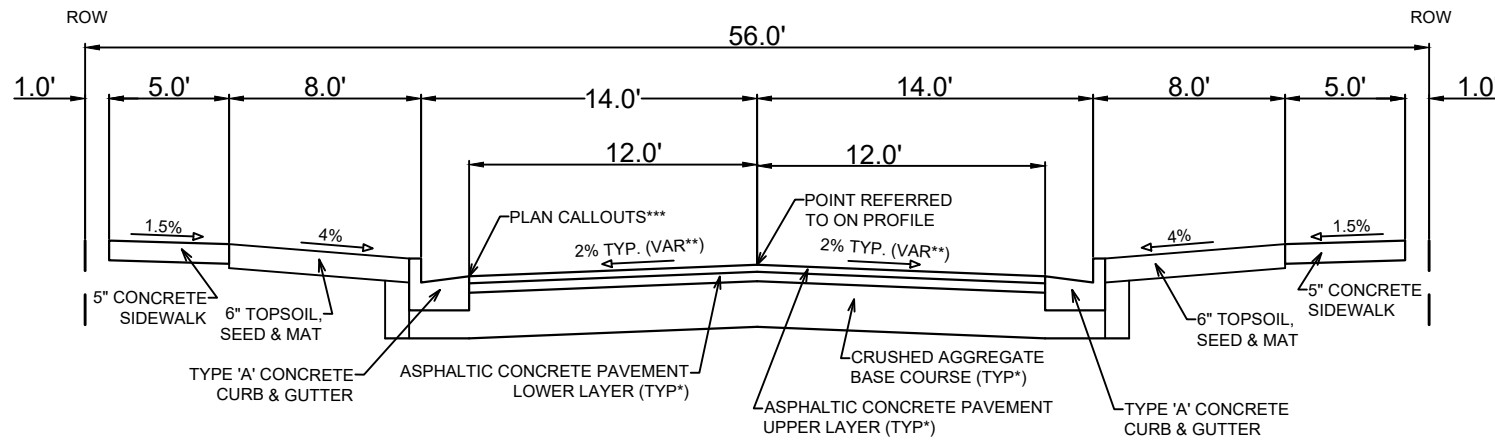
13852
MADISON, WI
9090
CONTRACT NO:

STANDARD DETAILS
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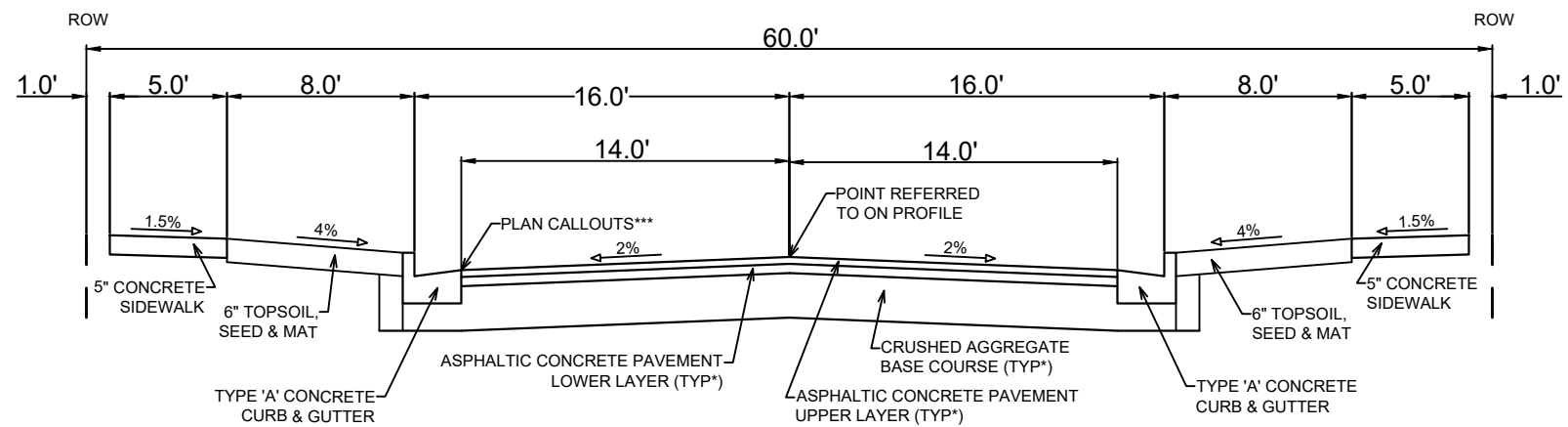


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D-2

REVISED 4/19/2022 BY LMC



TYPICAL SECTION
TWIN TREASURE DRIVE



TYPICAL SECTION
BARN SWALLOW CIRCLE

NOTES:

* TWIN TREASURE DRIVE AND BARN SWALLOW CIRCLE SHALL BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN†

** SEE PLAN AND PROFILE FOR SLOPES, ELEVATIONS AND OFFSETS

*** STATION OFFSET ELEVATION CALLOUTS AT **EDGE OF PAVEMENT**

- THE DEVELOPER SHALL BE RESPONSIBLE FOR SURFACE PAVING PHASE 5 (CONTRACT NO. 9091).

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 | 3.50" | 4 MT 58-28 S/H | 2.00" |

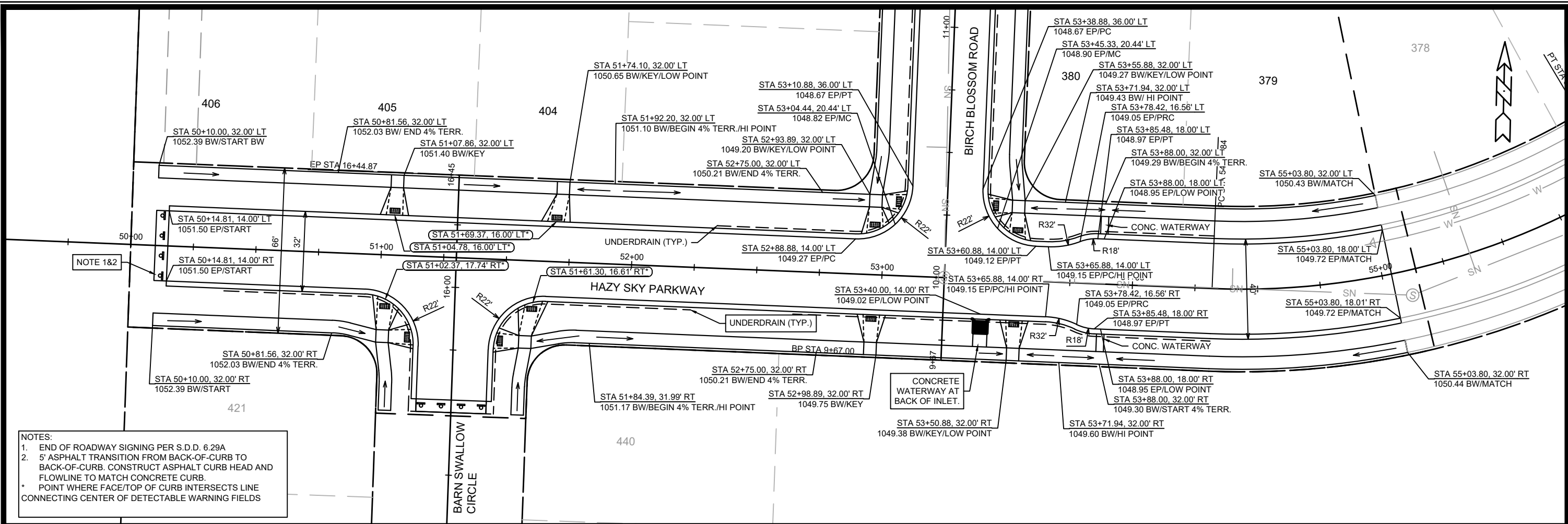
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MADISON, WI
9090
CONTRACT NO:

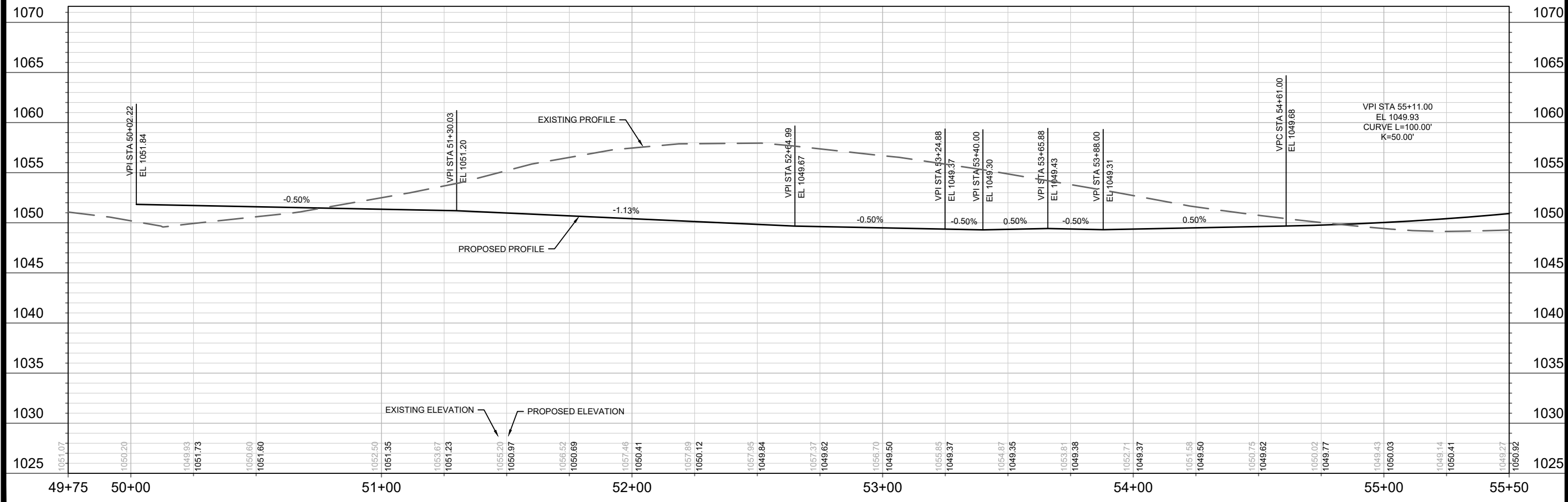
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D-3

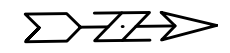
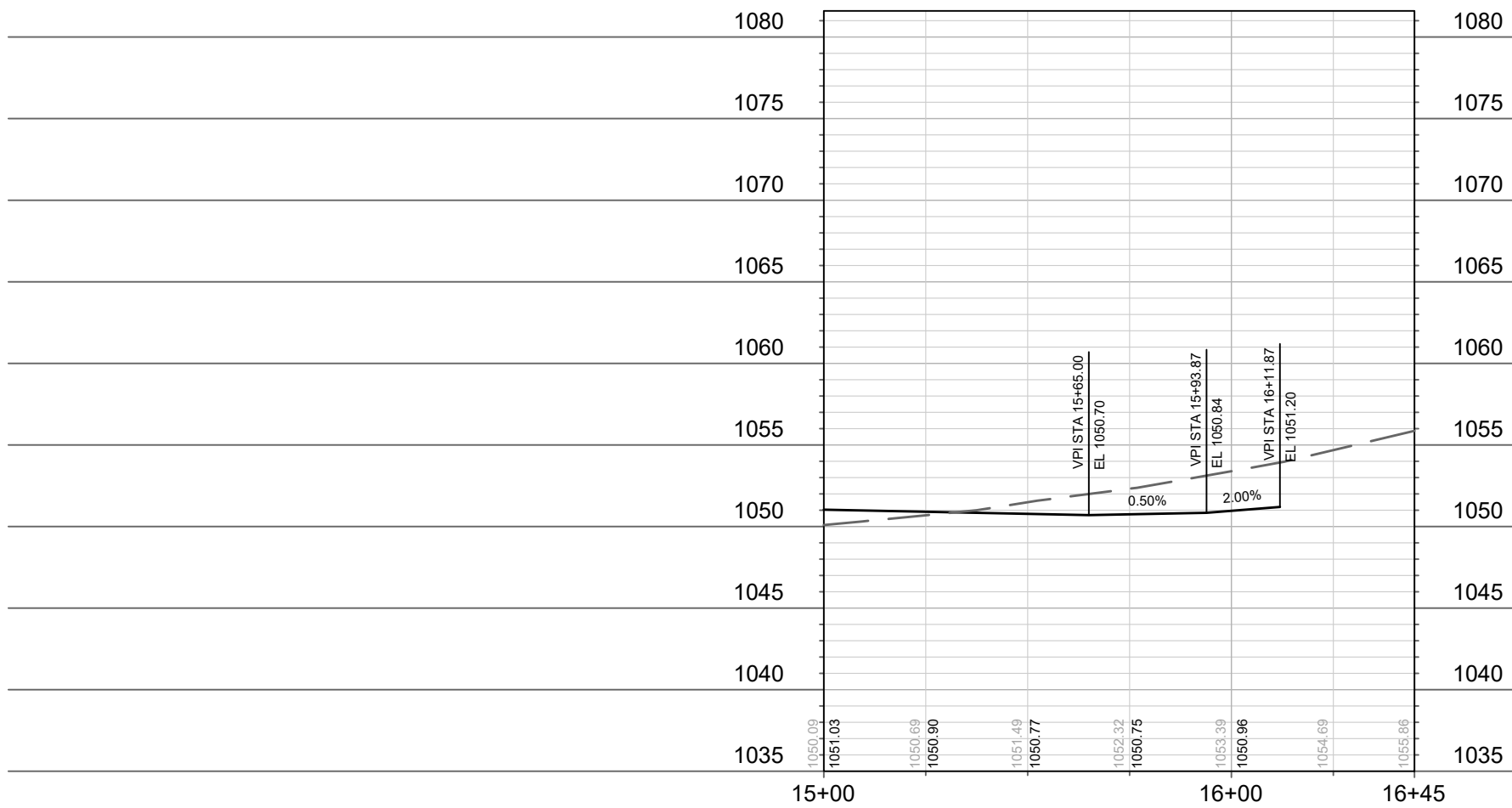
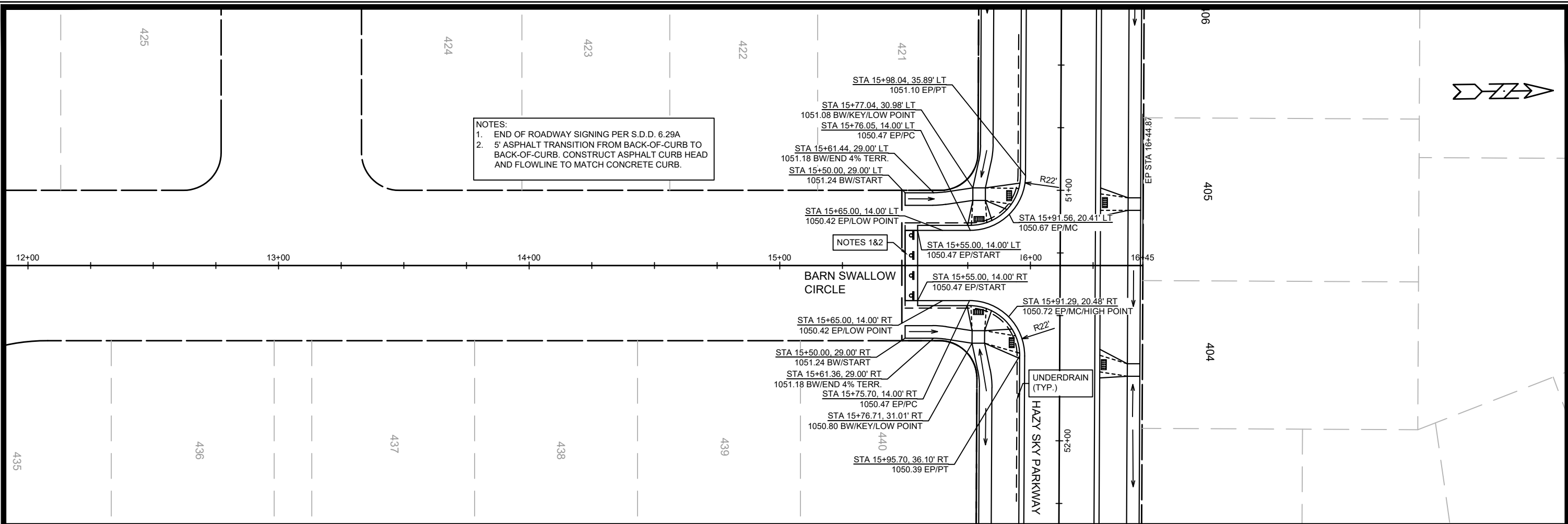


NOTES:
 1. END OF ROADWAY SIGNING PER S.D.D. 6.29A
 2. 5' ASPHALT TRANSITION FROM BACK-OF-CURB TO BACK-OF-CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.
 * POINT WHERE FACE/TOP OF CURB INTERSECTS LINE CONNECTING CENTER OF DETECTABLE WARNING FIELDS



13852
 MADISON, WI
 HAZY SKY PARKWAY - PLAN AND PROFILE
 SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
 CONTRACT NO.: 9090
 P-1

City of Madison Wisconsin logo

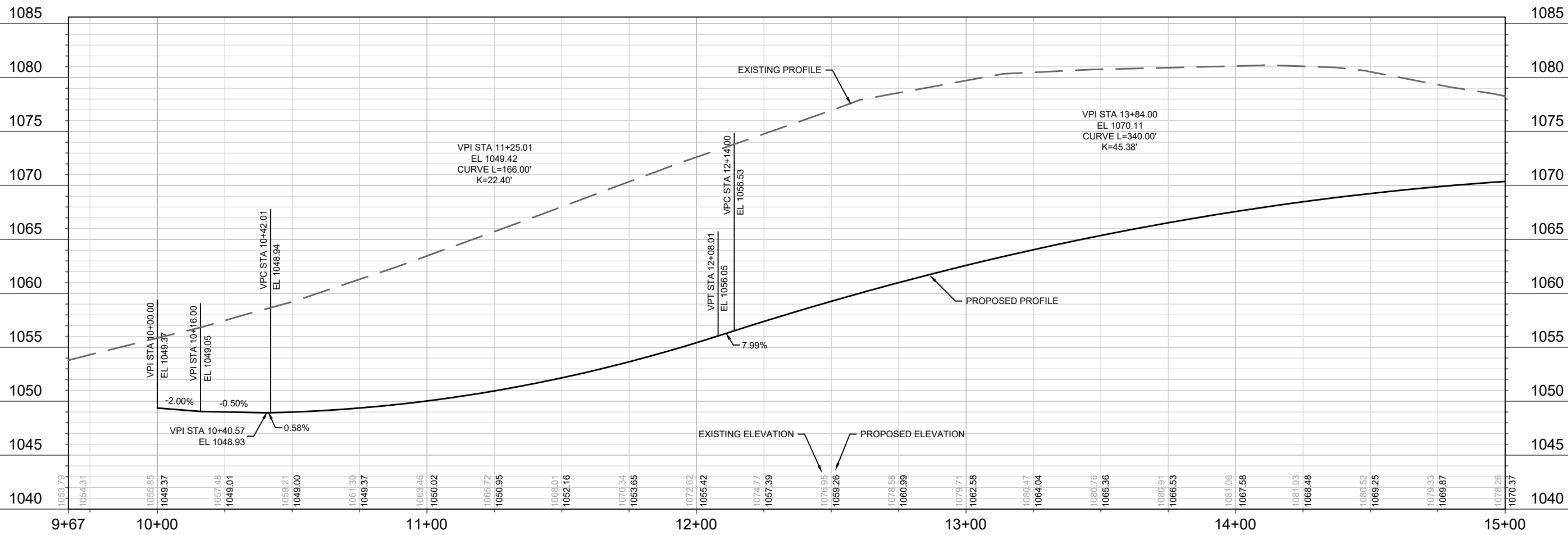
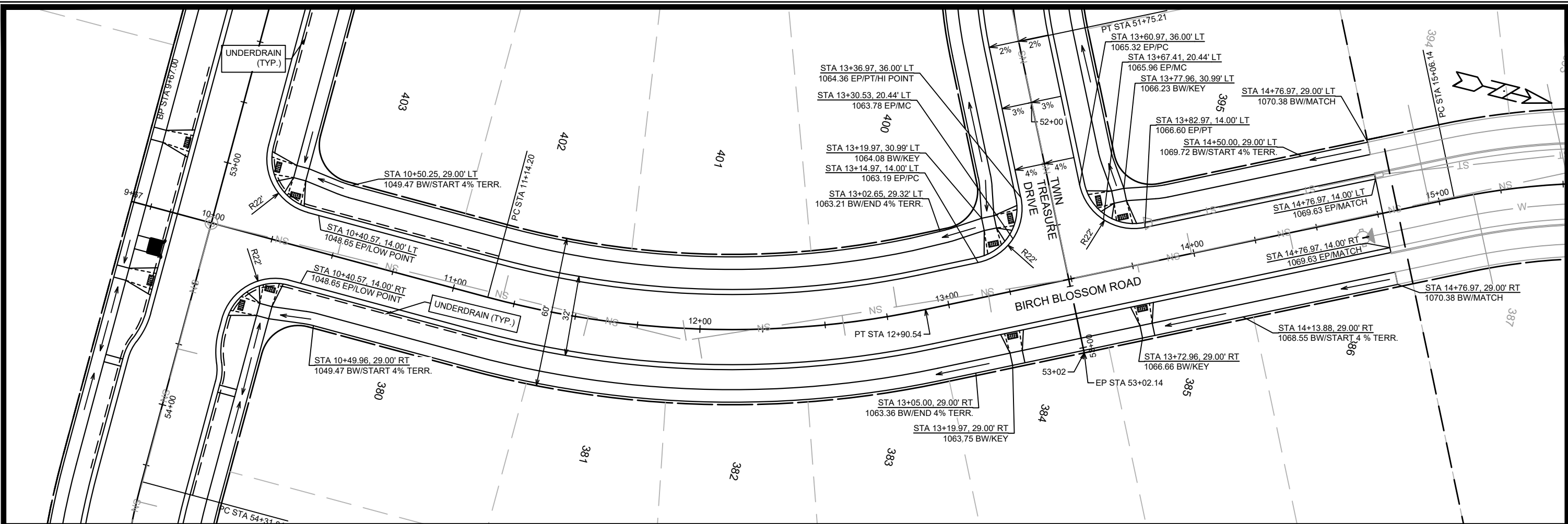


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| 2/25/2022 | LMC |

Scale: 1" = 40'

13852
 MADISON, WI
 CONTRACT NO: 9090
 BARN SWALLOW CIRCLE - PLAN AND PROFILE
 SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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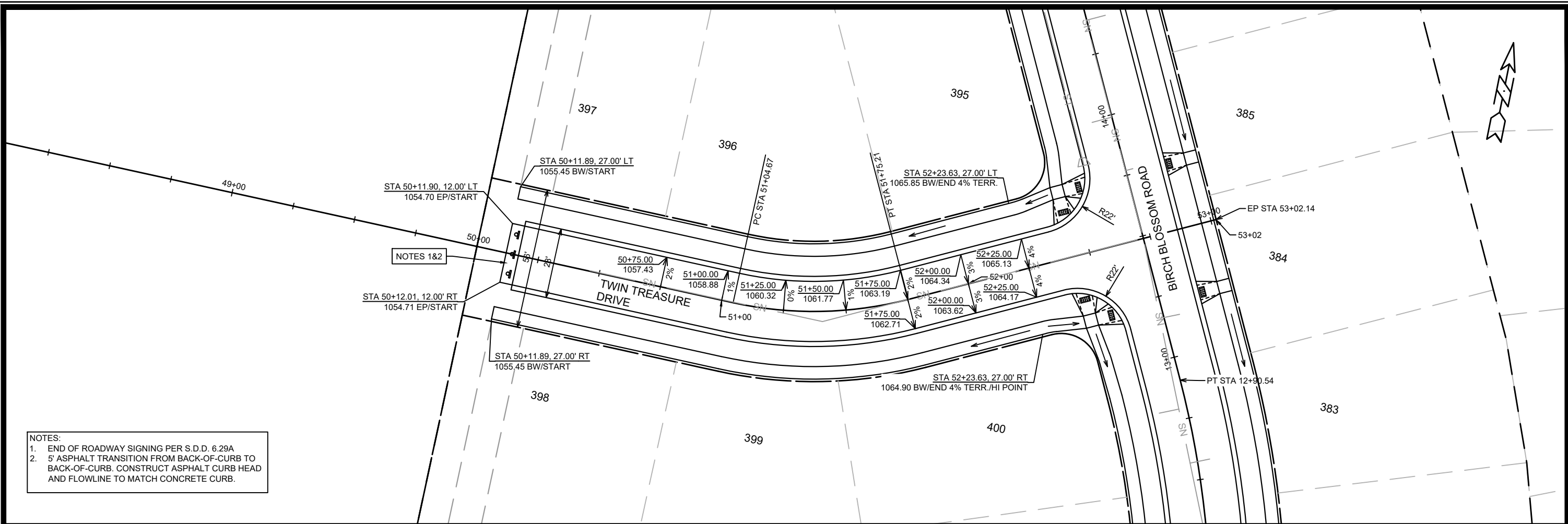


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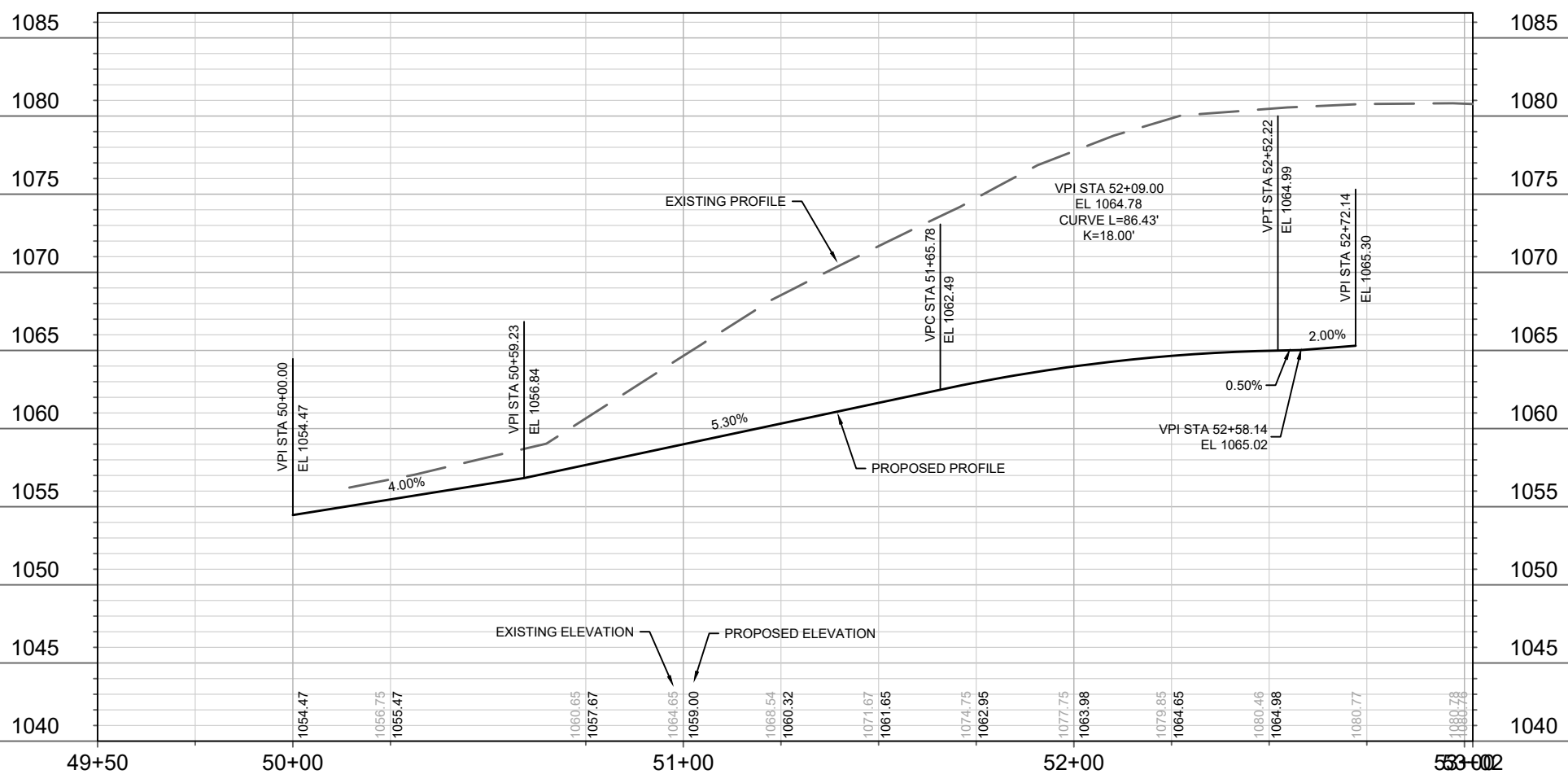
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MADISON, WI
CONTRACT NO.: 9090
BIRCH BLOSSOM ROAD - PLAN AND PROFILE
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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P-3



- NOTES:
1. END OF ROADWAY SIGNING PER S.D.D. 6.29A
 2. 5' ASPHALT TRANSITION FROM BACK-OF-CURB TO BACK-OF-CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.

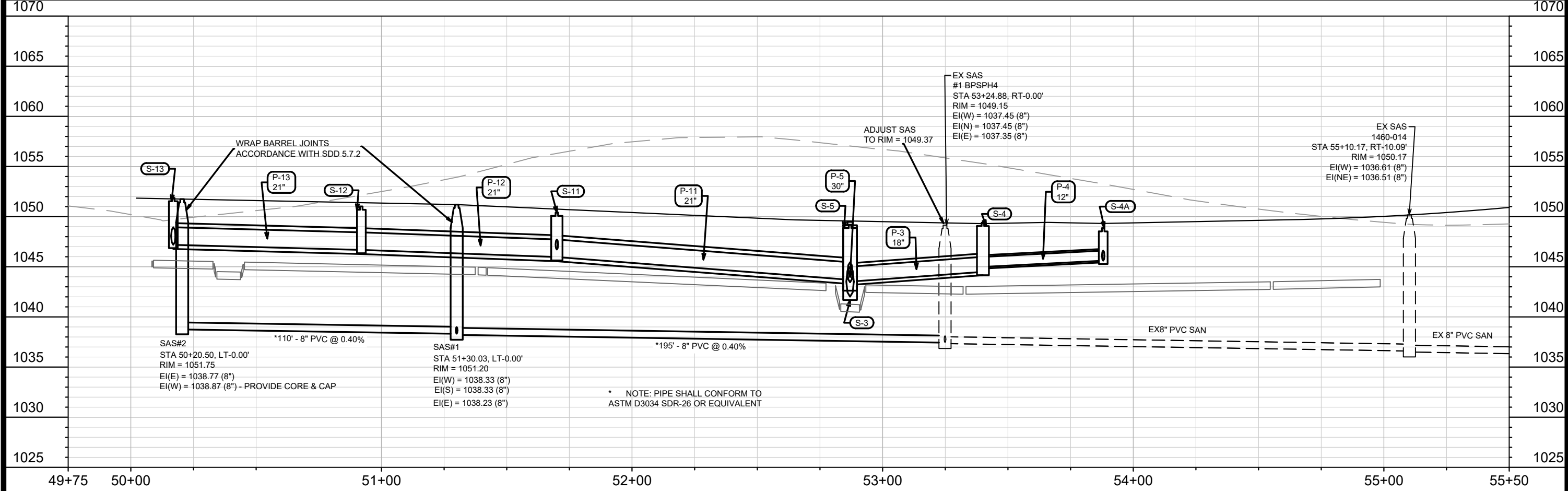
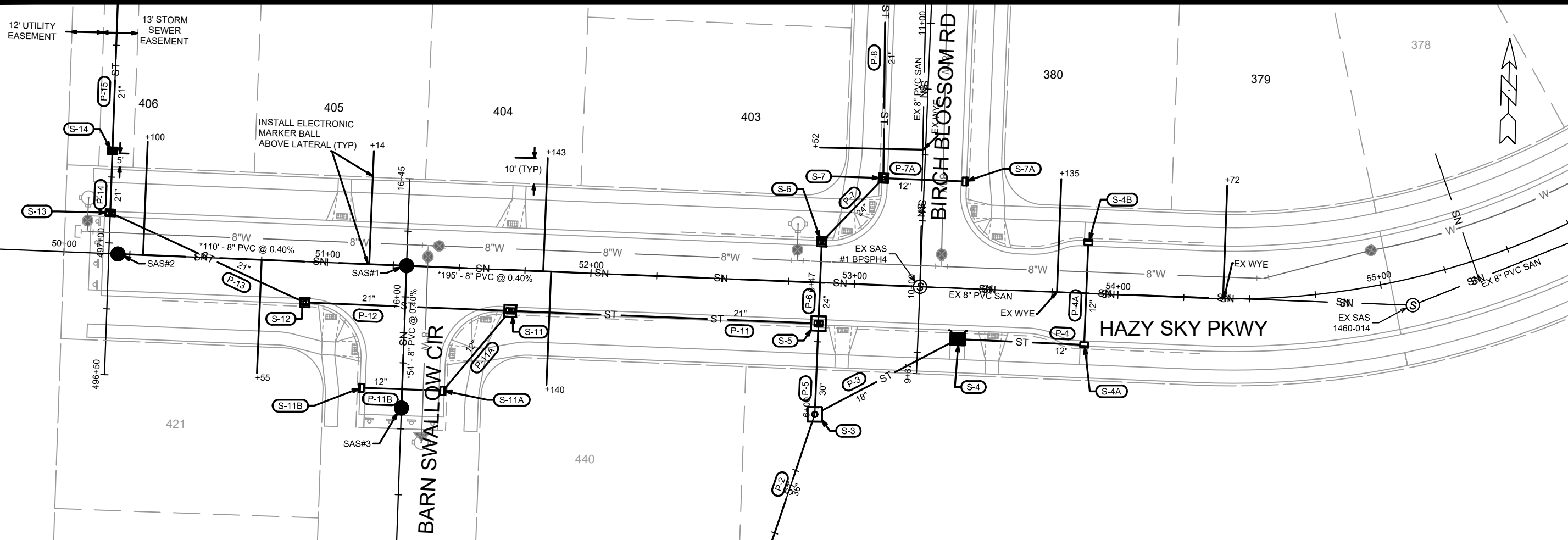


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13852
MADISON, WI
9090
CONTRACT NO:

TWIN TREASURE DRIVE - PLAN AND PROFILE
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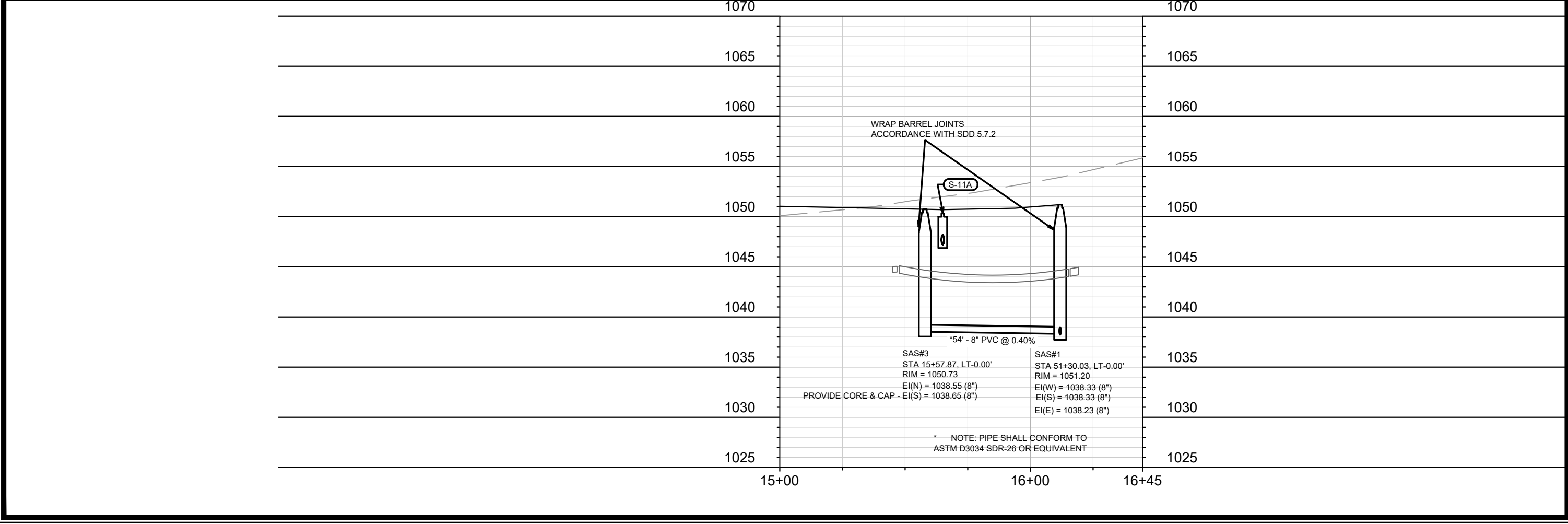
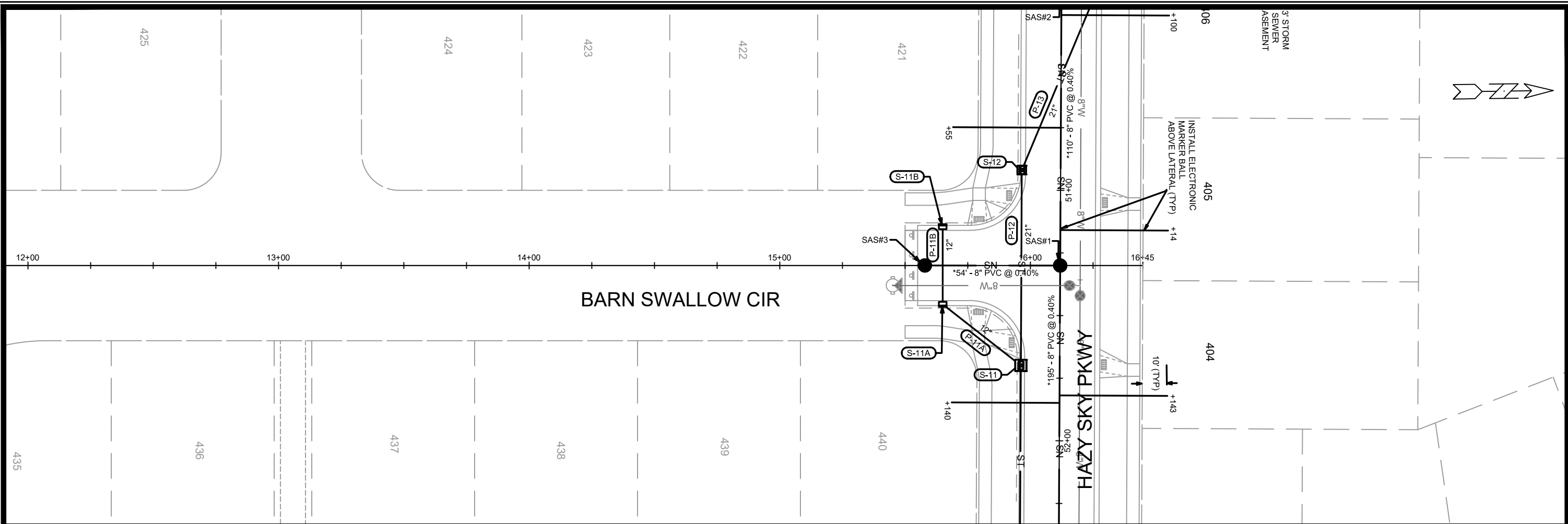
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13852
MADISON, WI
CONTRACT NO: 9090

Hazy Sky Parkway - Utilities Plan & Profile
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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U-1



| | |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| SAS#3 STA 15+57.87, LT-0.00' RIM = 1050.73 EI(N) = 1038.55 (8") EI(S) = 1038.65 (8") | SAS#1 STA 51+30.03, LT-0.00' RIM = 1051.20 EI(W) = 1038.33 (8") EI(S) = 1038.33 (8") EI(E) = 1038.23 (8") |
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* NOTE: PIPE SHALL CONFORM TO
ASTM D3034 SDR-26 OR EQUIVALENT

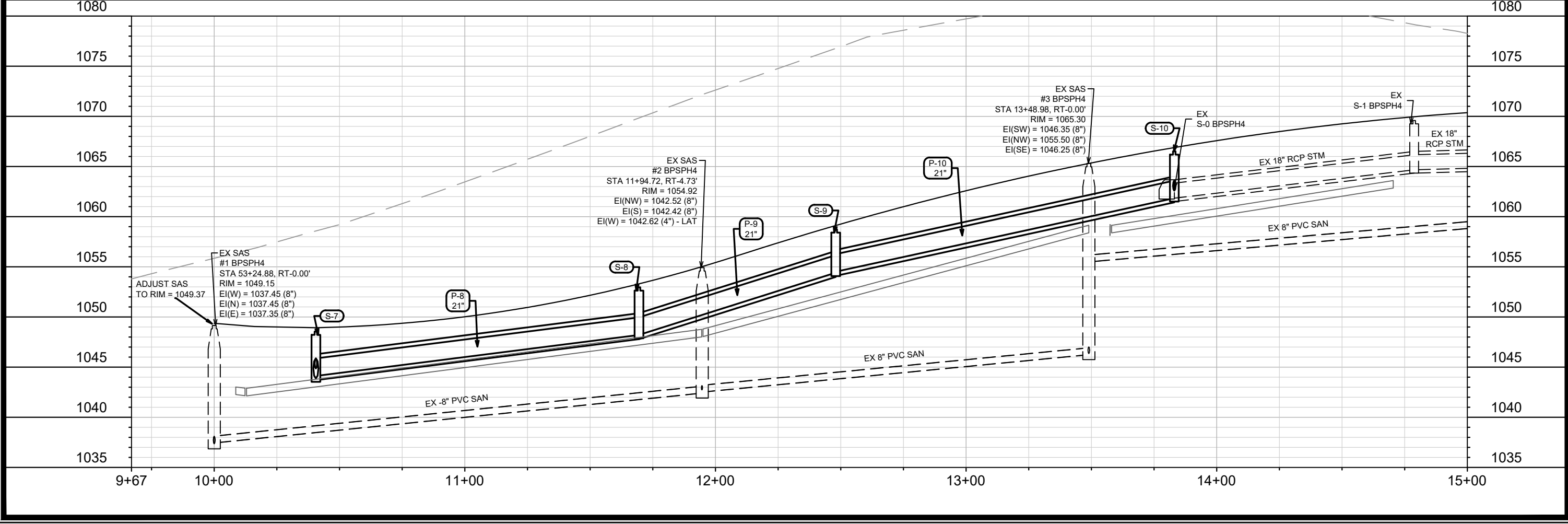
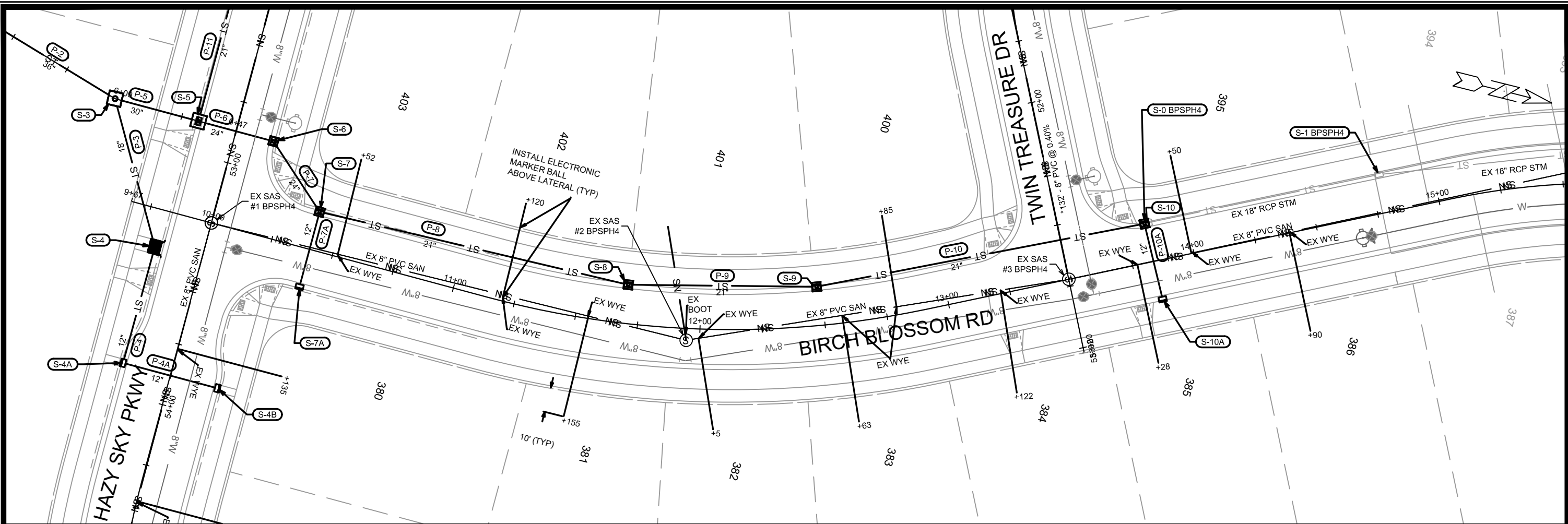
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CONTRACT NO:

BARN SWALLOW CIRCLE - UTILITIES PLAN & PROFILE
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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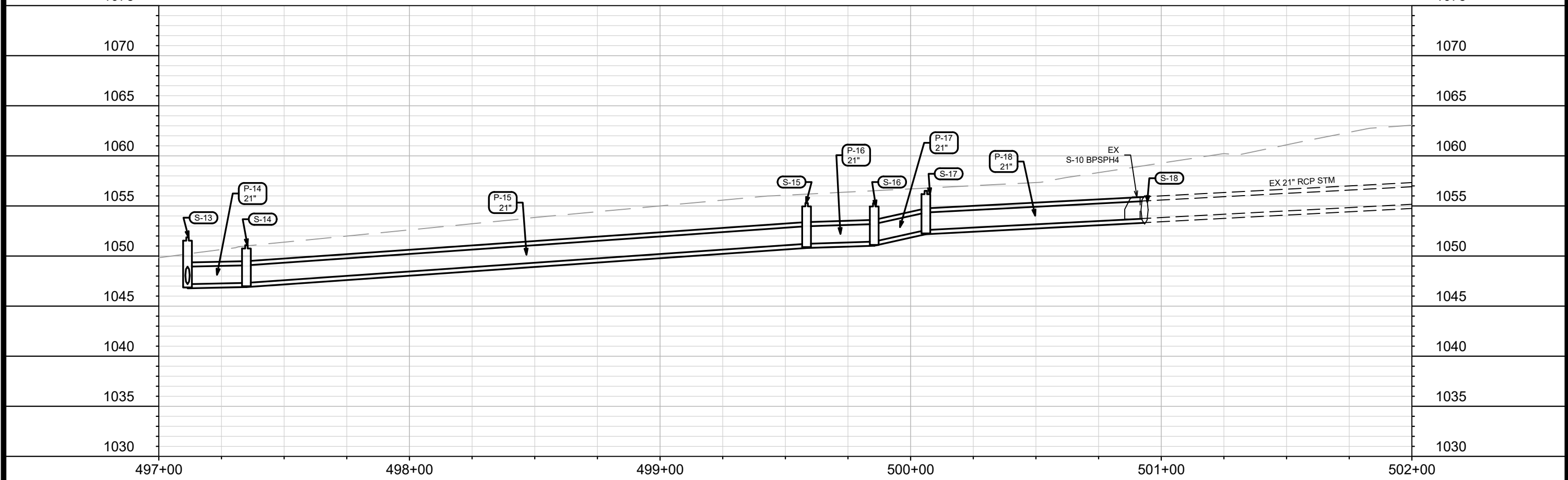
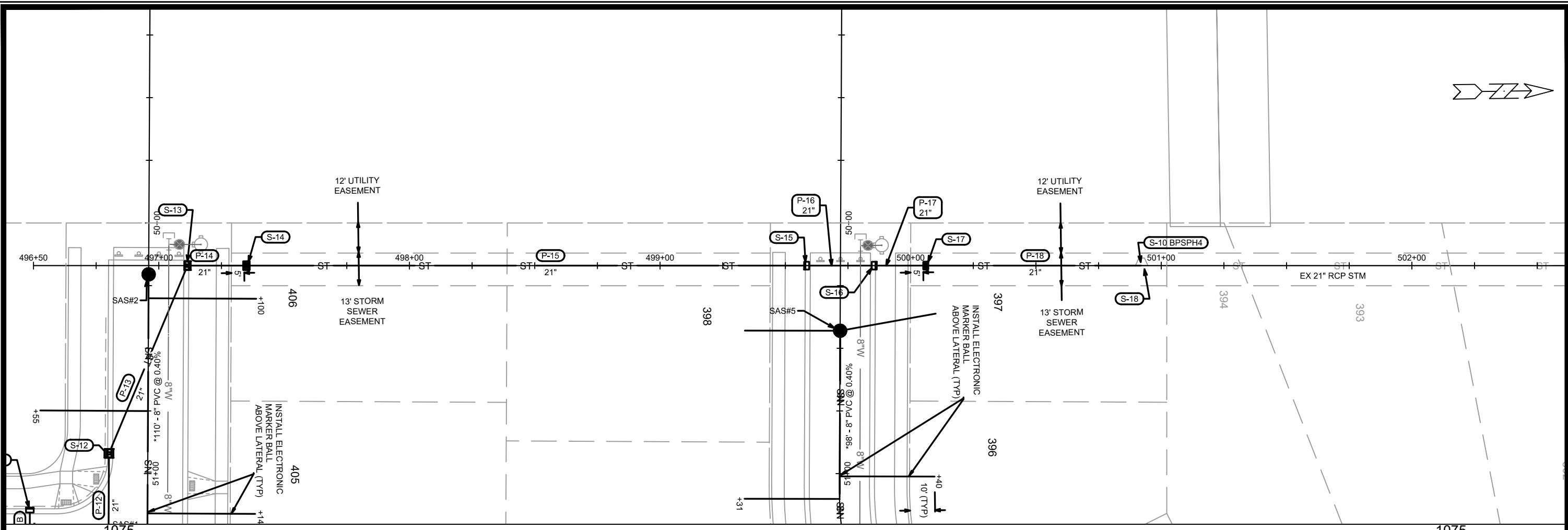


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MADISON, WI
CONTRACT NO: 9090

BIRCH BLOSSOM ROAD - UTILITIES PLAN & PROFILE
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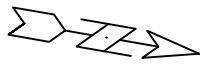
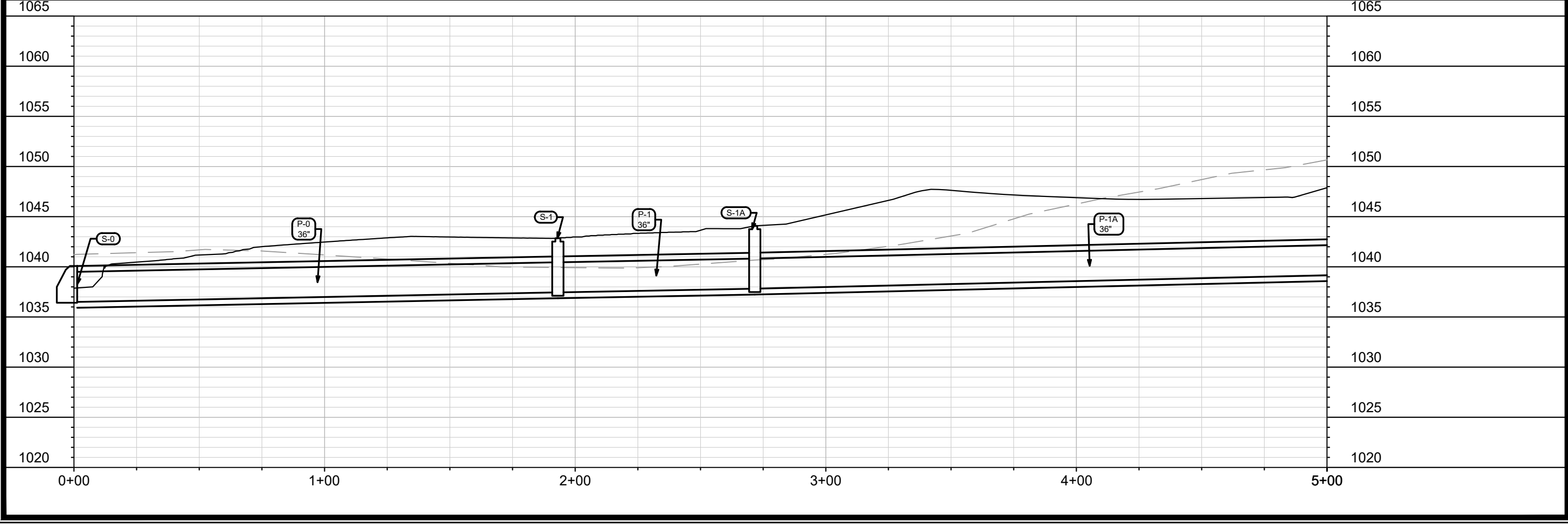
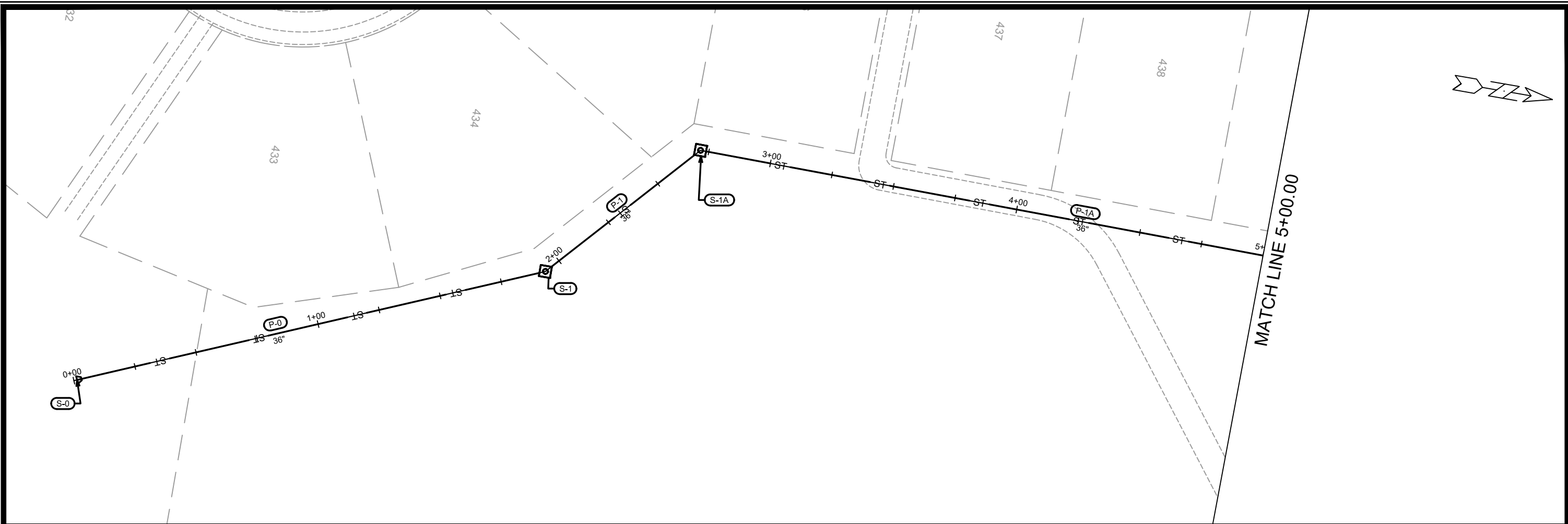


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 MADISON, WI
 CONTRACT NO: 9090
 STORM EASEMENT - PLAN & PROFILE
 SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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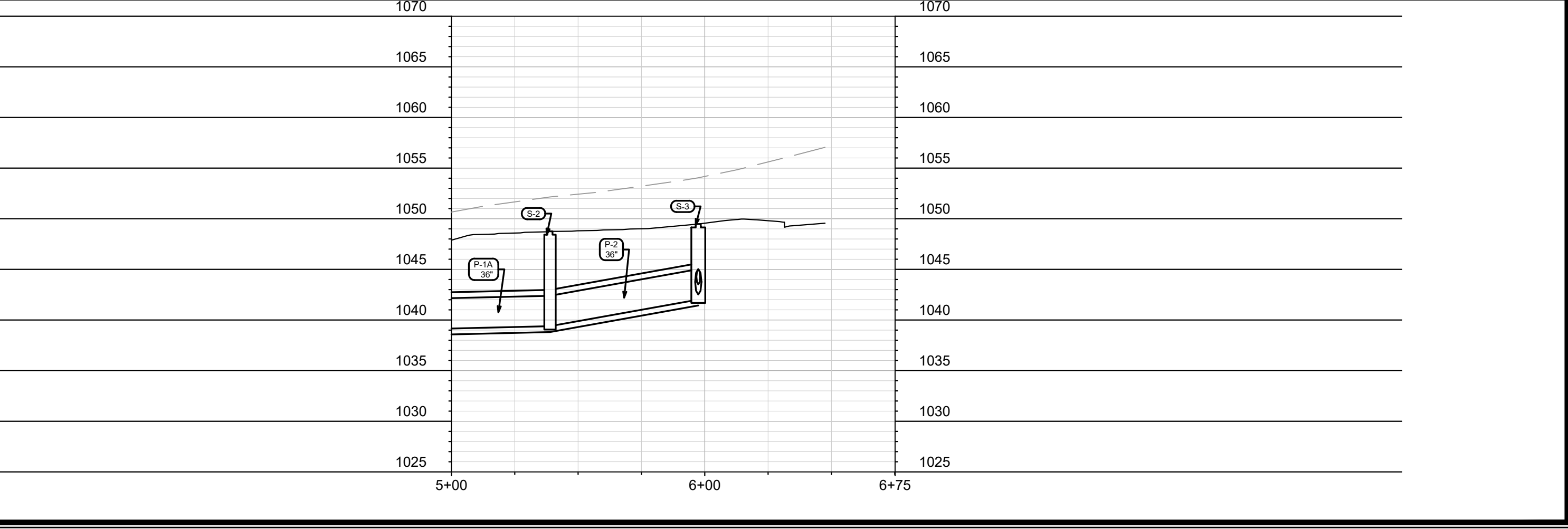
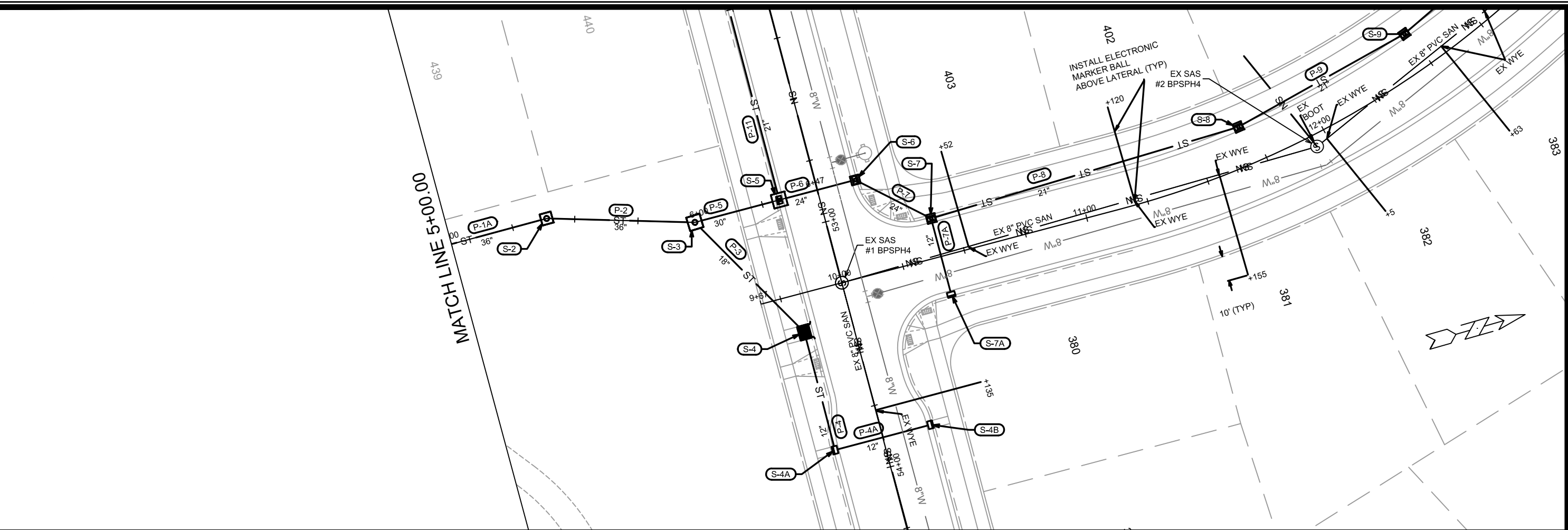
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 MADISON, WI
 CONTRACT NO: 9090

PARK - STORM SEWER PLAN & PROFILE
 SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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 MADISON, WI
 CONTRACT NO: 9090

PARK - STORM SEWER PLAN & PROFILE
 SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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 13852

SANITARY SEWER SCHEDULE

| | |
|--------------------------------------------------------|--------------------|
| SOUTHERN ADD TO BIRCHWOOD POINT 5 PROJECT NO. 13852 | SHEET NO. U-SAN |
| SANITARY SEWER SCHEDULE | |
| CITY OF MADISON | |

PROPOSED SANITARY STRUCTURES

| SAS NO. | STATION | LOCATION (OFFSET) | TOP OF CASTING | E.I. | DEPTH (FT) | NOTES |
|----------------------------|----------|-------------------|----------------|---------|------------|-------|
| HAZY SKY PARKWAY | | | | | | |
| SAS#1 | 51+30.03 | CL | 1051.20 | 1038.23 | 12.97 | (1) |
| SAS#2 | 50+20.50 | CL | 1051.75 | 1038.77 | 12.98 | (1) |
| BARN SWALLOW CIRCLE | | | | | | |
| SAS#3 | 15+57.87 | CL | 1050.73 | 1038.55 | 12.18 | (1) |
| TWIN TREASURE DRIVE | | | | | | |
| SAS#4 | 51+40.48 | RT-4.08 | 1061.06 | 1046.88 | 14.18 | - |
| SAS#5 | 50+43.00 | CL | 1056.19 | 1047.37 | 8.82 | - |

PROPOSED SANITARY PIPES

| FROM (DNSTM) | TO (UPSTM) | DWNSTRM E.I. | UPSTRM E.I. | PLAN LGTH (FT) | SLOPE (%) | PIPE SIZE | PVC TYPE | NOTES |
|--------------|------------|--------------|-------------|----------------|-----------|-----------|----------|-------|
| EX#1 BPSPh4 | SAS#1 | 1037.45 | 1038.23 | 195 | 0.40% | 8" | SDR-26 | - |
| SAS#1 | SAS#2 | 1038.33 | 1038.77 | 110 | 0.40% | 8" | SDR-26 | - |
| SAS#1 | SAS#3 | 1038.33 | 1038.55 | 54 | 0.40% | 8" | SDR-26 | - |
| EX#3 BPSPh4 | SAS#4 | 1046.35 | 1046.88 | 132 | 0.40% | 8" | SDR-26 | - |
| SAS#4 | SAS#5 | 1046.98 | 1047.37 | 98 | 0.40% | 8" | SDR-26 | - |

ADJUST SANITARY STRUCTURES

| STRUC ID NO. | STATION | LOCATION (OFFSET) | EX. RIM | PROP. RIM | NOTES |
|-------------------------|----------|-------------------|---------|-----------|-------|
| HAZY SKY PARKWAY | | | | | |
| #1 BPSPh4 | 53+24.88 | CL | 1049.15 | 1049.37 | - |

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) WRAP SAS BARREL JOINS WITH RUBBERIZED JOINT WRAP IN ACCORDANCE WITH SDD 5.7.2, 9" WIDE, ASTM C923

STORM SEWER SCHEDULE

| | |
|-----------------------------------|-----------|
| SOUTHERN ADD TO BIRCHWOOD POINT 5 | SHEET NO. |
| PROJECT NO. 13852 | U-STM |
| STORM SEWER SCHEDULE | |
| CITY OF MADISON | |

PROPOSED STORM STRUCTURES

| STRUC. NO. | STATION | LOCATION (OFFSET) | TYPE | TOP OF CASTING | E.I. | DEPTH | NOTES |
|----------------------------|-----------|-------------------|----------------------|----------------|---------|-------|----------------------------|
| PARK | | | | | | | |
| S-0 | 0+01.30 | CL | 36" APRON END | - | 1036.50 | - | W/ GATE |
| S-1 | 1+93.10 | CL | 4X4 SAS | 1042.85 | 1037.45 | 5.40 | FP; W/ R-1550 |
| S-1A | 2+71.65 | CL | 4X4 SAS | 1044.08 | 1037.82 | 6.26 | W/ R-1550 |
| S-2 | 5+38.91 | CL | 4X4 SAS | 1048.76 | 1039.39 | 9.38 | W/ R-1550 |
| S-3 | 5+97.45 | CL | 5X5 SAS | 1049.48 | 1042.02 | 7.46 | W/ R-1550 |
| HAZY SKY PARKWAY | | | | | | | |
| S-4 | 53+40.00 | RT-19.30 | TERRACE INLET TYPE 2 | 1049.20 | 1044.49 | 4.71 | LP; PER SDD 5.7.12A |
| S-4A | 53+88.00 | RT-19.50 | H INLET | 1049.33 | 1045.61 | 3.72 | LP; W/ R-3067-7004-VB; (2) |
| S-4B | 53+88.00 | LT-19.50 | H INLET | 1049.33 | 1045.81 | 3.52 | LP; W/ R-3067-7004-VB; (2) |
| S-5 | 52+87.00 | RT-15.50 | 5X5 SAS | 1049.66 | 1042.95 | 6.71 | W/ R-3067-7004-V |
| S-6 | 52+87.00 | LT-15.50 | 3X3 SAS | 1049.66 | 1043.68 | 5.98 | W/ R-3067-7004-V |
| S-11 | 51+70.00 | RT-15.50 | 4X4 SAS | 1050.85 | 1045.97 | 4.88 | W/ R-3067-7004-V |
| S-12 | 50+92.00 | RT-15.50 | 3X3 SAS | 1051.49 | 1046.68 | 4.81 | W/ R-3067-7004-V |
| S-13 | 50+16.95 | LT-15.50 | 3X3 SAS | 1051.87 | 1047.19 | 4.68 | W/ R-3067-7004-V |
| BARN SWALLOW CIRCLE | | | | | | | |
| S-11A | 15+65.00 | RT-15.50 | H INLET | 1050.80 | 1047.20 | 3.60 | LP; W/ R-3067-7004-VB; (2) |
| S-11B | 15+65.00 | LT-15.50 | H INLET | 1050.80 | 1047.40 | 3.40 | LP; W/ R-3067-7004-VB; (2) |
| BIRCH BLOSSOM ROAD | | | | | | | |
| S-7 | 10+40.57 | LT-15.50 | 3X3 SAS | 1049.03 | 1043.87 | 5.16 | LP; W/ R-3067-7004-VB; (2) |
| S-7A | 10+40.57 | RT-15.50 | H INLET | 1049.03 | 1045.07 | 3.96 | LP; W/ R-3067-7004-VB; (2) |
| S-8 | 11+69.50 | LT-15.50 | 3X3 SAS | 1053.43 | 1048.21 | 5.22 | W/ R-3067-7004-V |
| S-9 | 12+48.00 | LT-15.50 | 3X3 SAS | 1059.21 | 1054.41 | 4.80 | W/ R-3067-7004-V |
| S-10 | 13+83.09 | LT-15.50 | 3X3 SAS | 1066.99 | 1061.84 | 5.15 | W/ R-3067-7004-V; (1) |
| S-10A | 13+84.00 | RT-15.50 | H INLET | 1067.03 | 1063.42 | 3.61 | W/ R-3067-7004-V |
| TWIN TREASURE DRIVE | | | | | | | |
| S-15 | 50+17.09 | RT-13.50 | H INLET | 1055.29 | 1051.22 | 4.07 | W/ R-3067-7004-V |
| S-16 | 50+16.96 | LT-13.50 | H INLET | 1055.29 | 1051.44 | 3.85 | W/ R-3067-7004-V |
| STORM EASEMENT | | | | | | | |
| S-14 | 497+34.97 | CL | H INLET | 1051.08 | 1047.32 | 3.76 | W/ R-1878-B7G |
| S-17 | 500+06.06 | CL | H INLET | 1056.51 | 1052.59 | 3.92 | W/ R-1878-B7G |
| S-18 | 500+93.34 | CL | CONCRETE COLLAR | - | 1053.73 | - | REMOVE EX APRON END |

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 |
|----------|--------------|------------|-------------|------------|----------------------|----------------|-----------|-----------|---------|-------|
| P-0 | S-0 | S-1 | 1036.50 | 1037.45 | 192 | 190 | 0.50% | 36" | TYPE I | - |
| P-1 | S-1 | S-1A | 1037.45 | 1037.82 | 79 | 73 | 0.50% | 36" | TYPE I | - |
| P-1A | S-1A | S-2 | 1037.82 | 1039.39 | 317 | 313 | 0.50% | 36" | TYPE I | - |
| P-2 | S-2 | S-3 | 1039.39 | 1042.02 | 59 | 54 | 4.88% | 36" | TYPE I | - |
| P-3 | S-3 | S-4 | 1043.52 | 1044.49 | 61 | 56 | 1.73% | 18" | TYPE II | - |
| P-4 | S-4 | S-4A | 1044.99 | 1045.61 | 48 | 44 | 1.41% | 12" | TYPE II | - |
| P-4A | S-4A | S-4B | 1045.61 | 1045.81 | 39 | 37 | 0.54% | 12" | TYPE I | - |
| P-5 | S-3 | S-5 | 1042.52 | 1042.95 | 35 | 30 | 1.43% | 30" | TYPE I | - |
| P-6 | S-5 | S-6 | 1043.45 | 1043.68 | 31 | 27 | 0.85% | 24" | TYPE I | - |
| P-11 | S-5 | S-11 | 1043.70 | 1045.97 | 117 | 113 | 2.01% | 21" | TYPE II | - |
| P-12 | S-11 | S-12 | 1045.97 | 1046.68 | 78 | 75 | 0.95% | 21" | TYPE I | - |
| P-13 | S-12 | S-13 | 1046.68 | 1047.19 | 81 | 78 | 0.65% | 21" | TYPE I | - |
| P-11A | S-11 | S-11A | 1046.72 | 1047.20 | 40 | 35 | 1.37% | 12" | TYPE II | - |
| P-11B | S-11A | S-11B | 1047.20 | 1047.40 | 31 | 29 | 0.69% | 12" | TYPE I | - |
| P-7 | S-6 | S-7 | 1043.68 | 1043.87 | 34 | 29 | 0.66% | 24" | TYPE II | - |
| P-7A | S-7 | S-7A | 1044.87 | 1045.07 | 31 | 29 | 0.69% | 12" | TYPE I | - |
| P-8 | S-7 | S-8 | 1044.12 | 1048.21 | 127 | 124 | 3.30% | 21" | TYPE II | - |
| P-9 | S-8 | S-9 | 1048.21 | 1054.41 | 75 | 72 | 8.61% | 21" | TYPE II | - |
| P-10 | S-9 | S-10 | 1054.41 | 1061.84 | 133 | 130 | 5.72% | 21" | TYPE I | - |
| P-10A | S-10 | S-10A | 1062.59 | 1063.42 | 31 | 29 | 2.86% | 12" | TYPE I | - |
| P-15 | S-14 | S-15 | 1047.32 | 1051.22 | 224 | 222 | 1.76% | 21" | TYPE II | - |
| P-16 | S-15 | S-16 | 1051.22 | 1051.44 | 27 | 25 | 0.88% | 21" | TYPE I | - |
| P-14 | S-13 | S-14 | 1047.19 | 1047.32 | 24 | 22 | 0.59% | 21" | TYPE II | - |
| P-17 | S-16 | S-17 | 1051.44 | 1052.59 | 21 | 19 | 6.05% | 21" | TYPE II | - |
| P-18 | S-17 | S-18 | 1052.59 | 1053.73 | 87 | 86 | 1.33% | 21" | TYPE II | - |

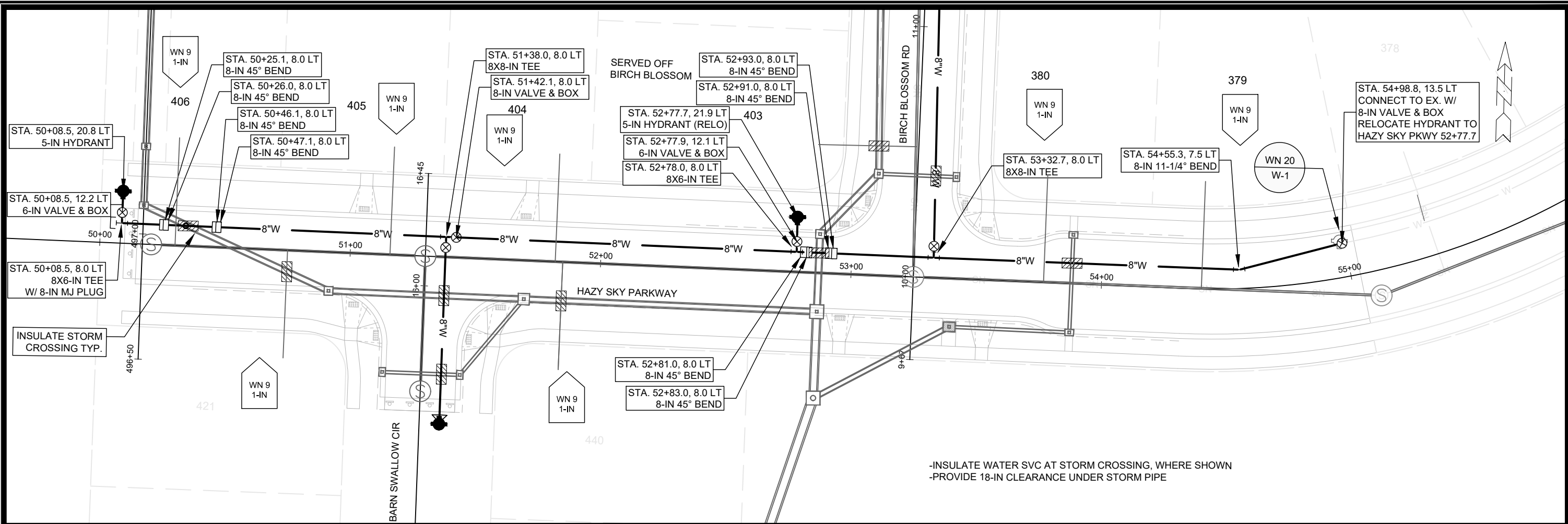
SPECIFIC NOTES:

- (1) REMOVE EX 18" APRON END
- (2) INSTALL 2" PVC DRAIN PIPE PER CITY OF MADISON S.D.D. 5.7.7A

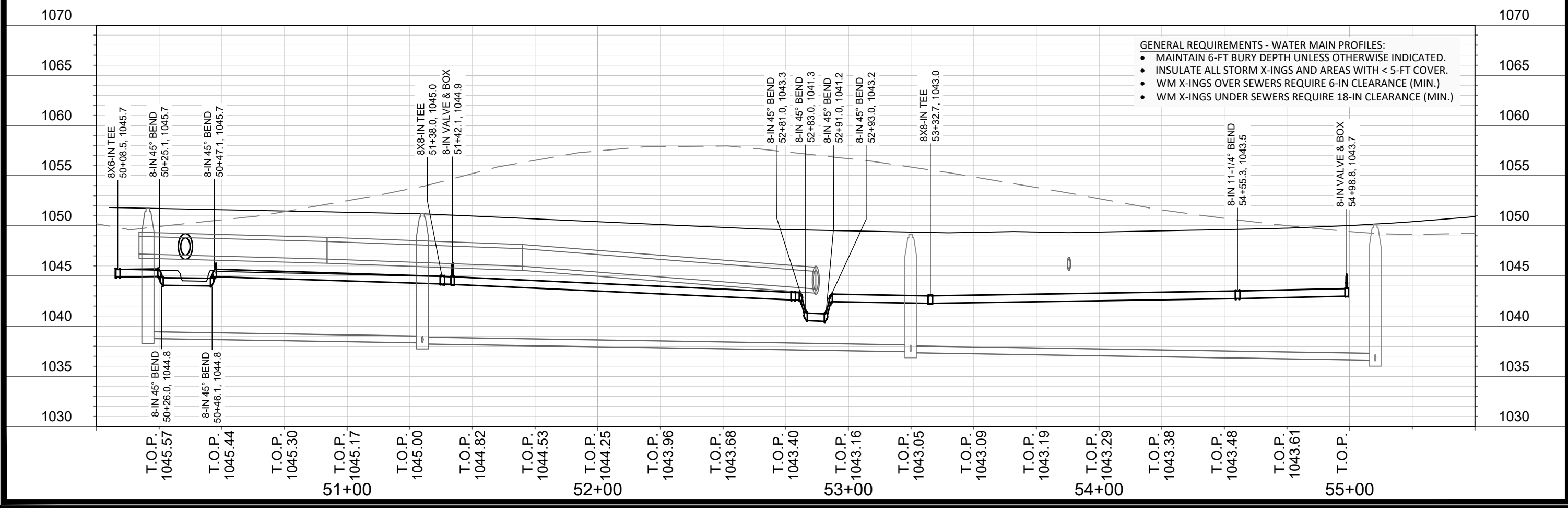
STANDARD NOTES:

- 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



-INSULATE WATER SVC AT STORM CROSSING, WHERE SHOWN
 -PROVIDE 18-IN CLEARANCE UNDER STORM PIPE



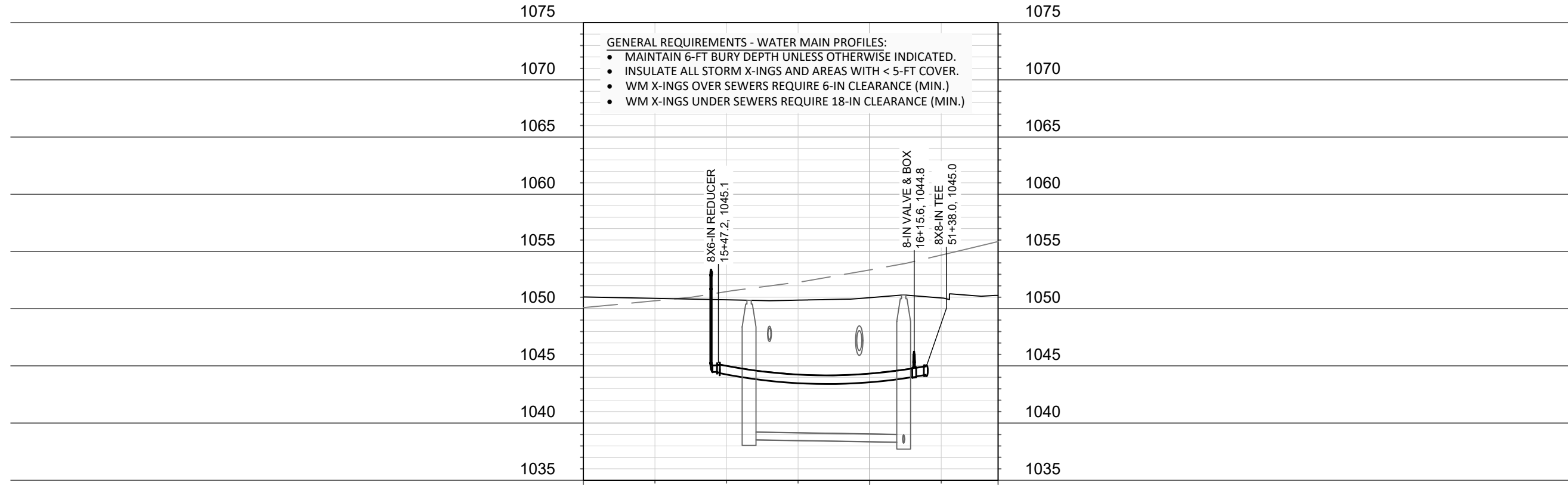
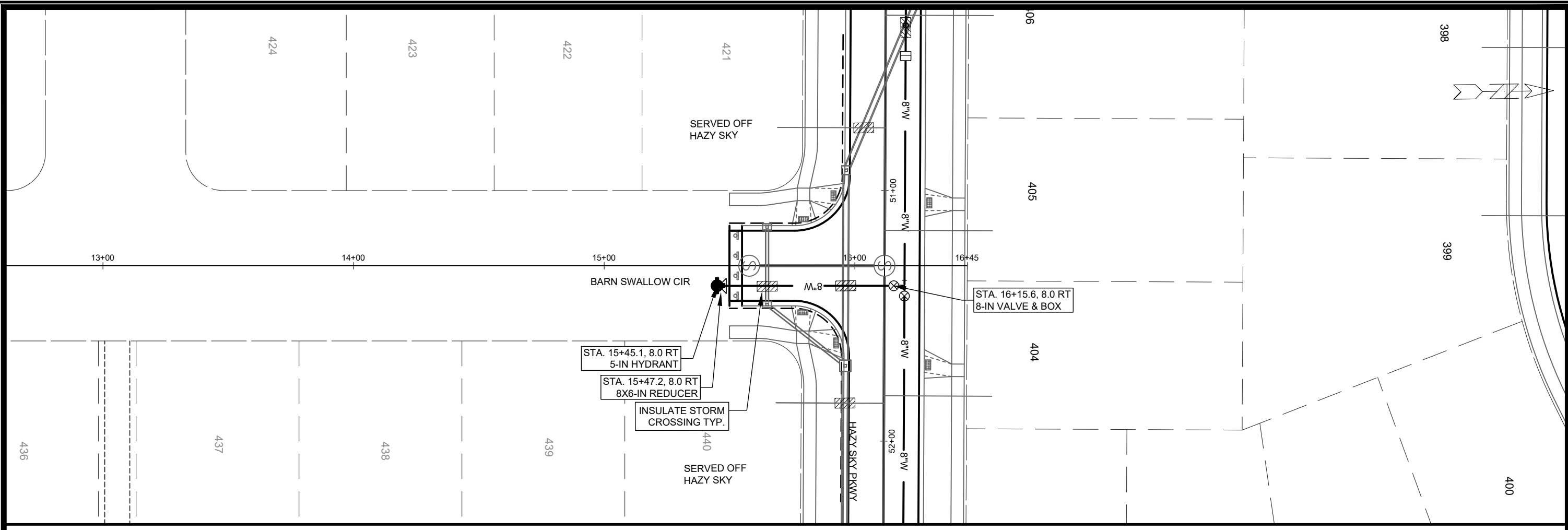
- GENERAL REQUIREMENTS - WATER MAIN PROFILES:
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

SCALE: 1" = 40'
 DESIGNED BY: TDP
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 4/1/22

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
 HAZY SKY PARKWAY - WATER PLAN & PROFILE
CITY OF MADISON, WISCONSIN

CONTRACT NO: 9090

13852
 W-1



- 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.)

T.O.P.
1044.24
16+00

T.O.P.
1044.33
16+00

**SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
BARN SWALLOW CIR - WATER PLAN & PROFILE**

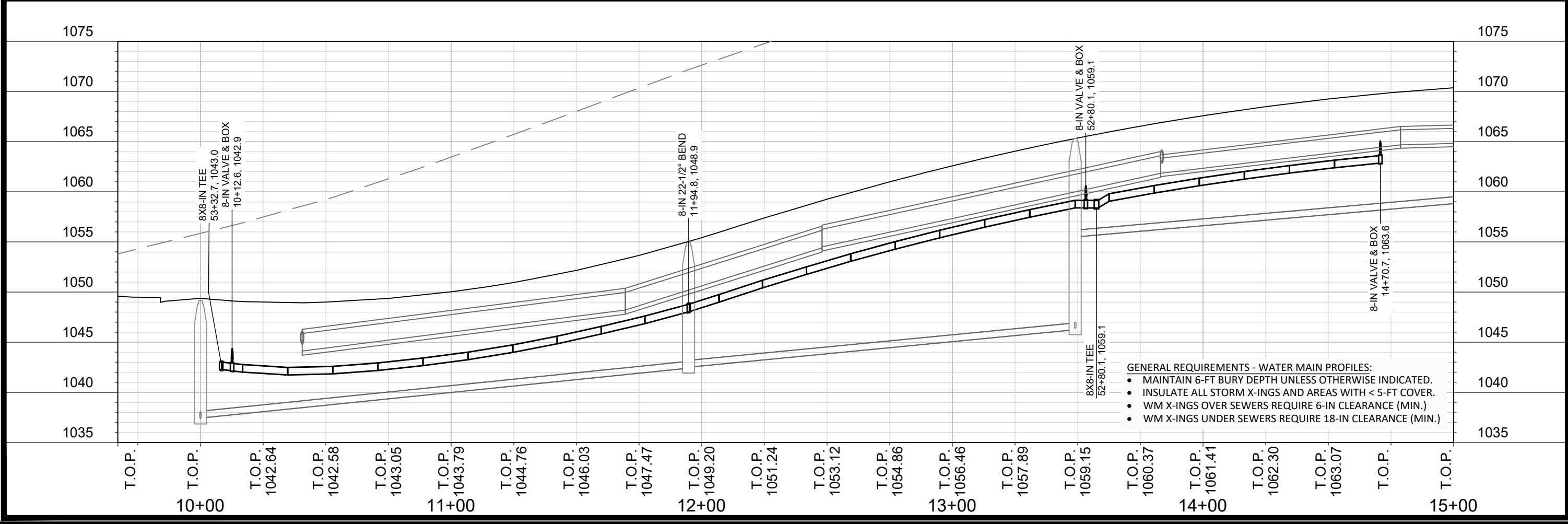
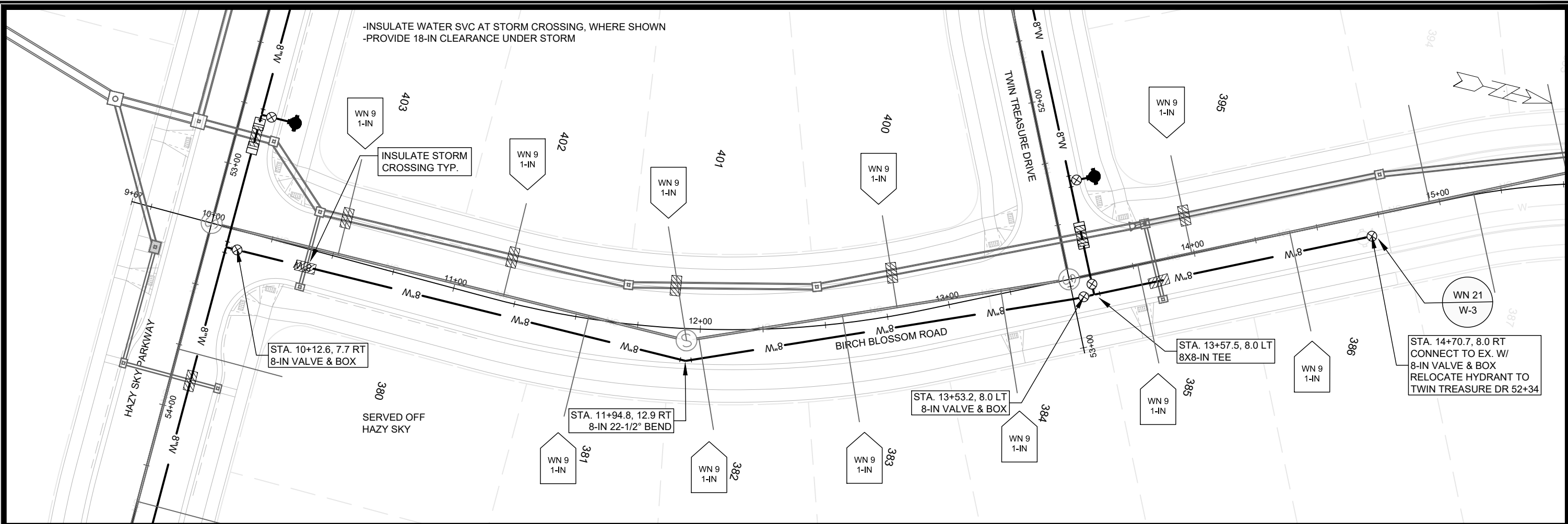
CITY OF MADISON, WISCONSIN



13852
W-2

CONTRACT NO: 9090

SCALE: 1" = 40'
DESIGNED BY: TDP
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 4/1/22

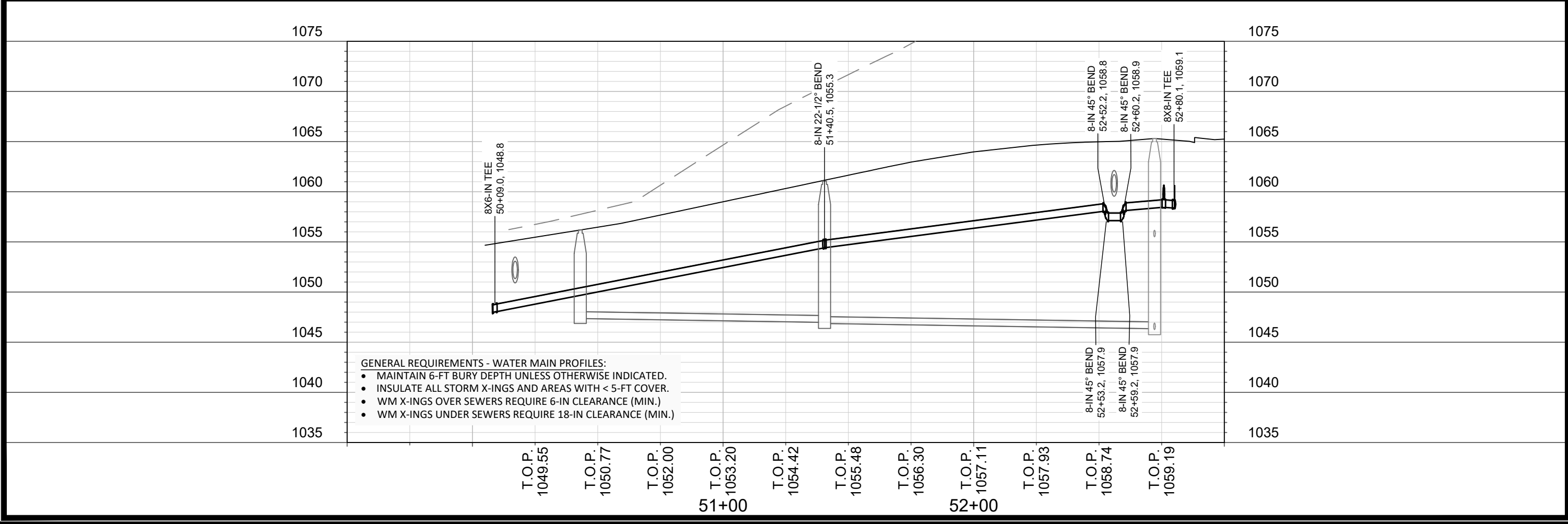
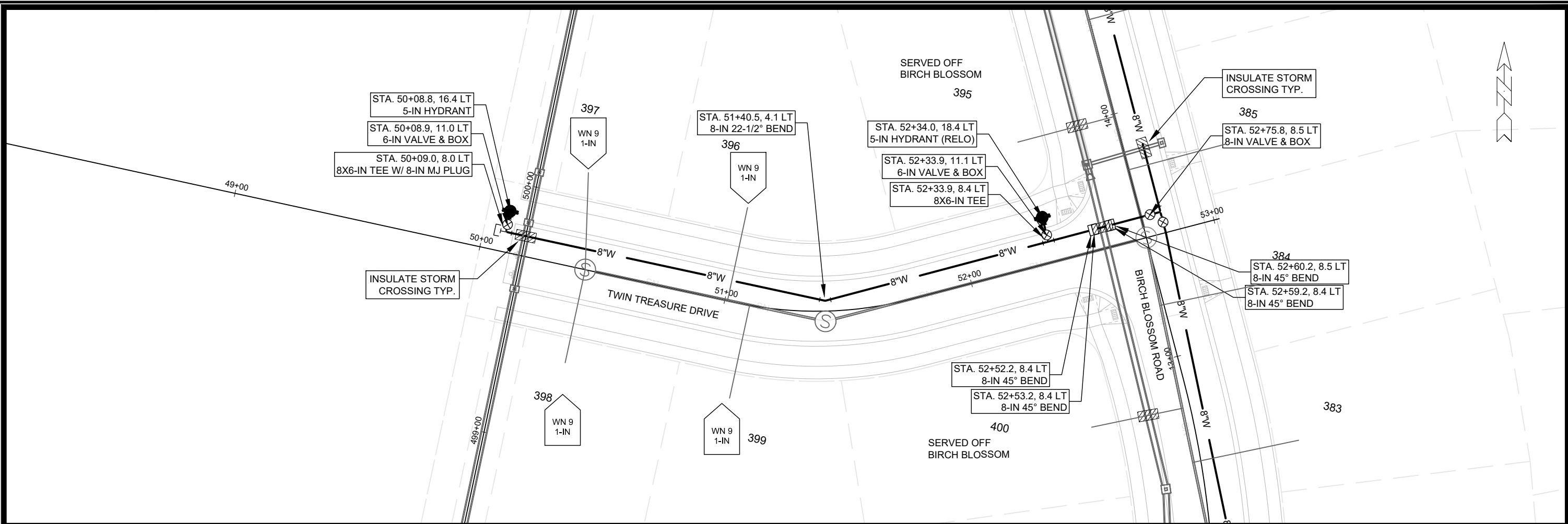


SCALE: 1" = 40'
 DESIGNED BY: TDP
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 4/1/22

CONTRACT NO: 9090

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
 BIRCH BLOSSOM ROAD - WATER PLAN & PROFILE
 CITY OF MADISON, WISCONSIN

13852
 W-3



SCALE: 1" = 40'
 DESIGNED BY: TDP
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 4/1/22

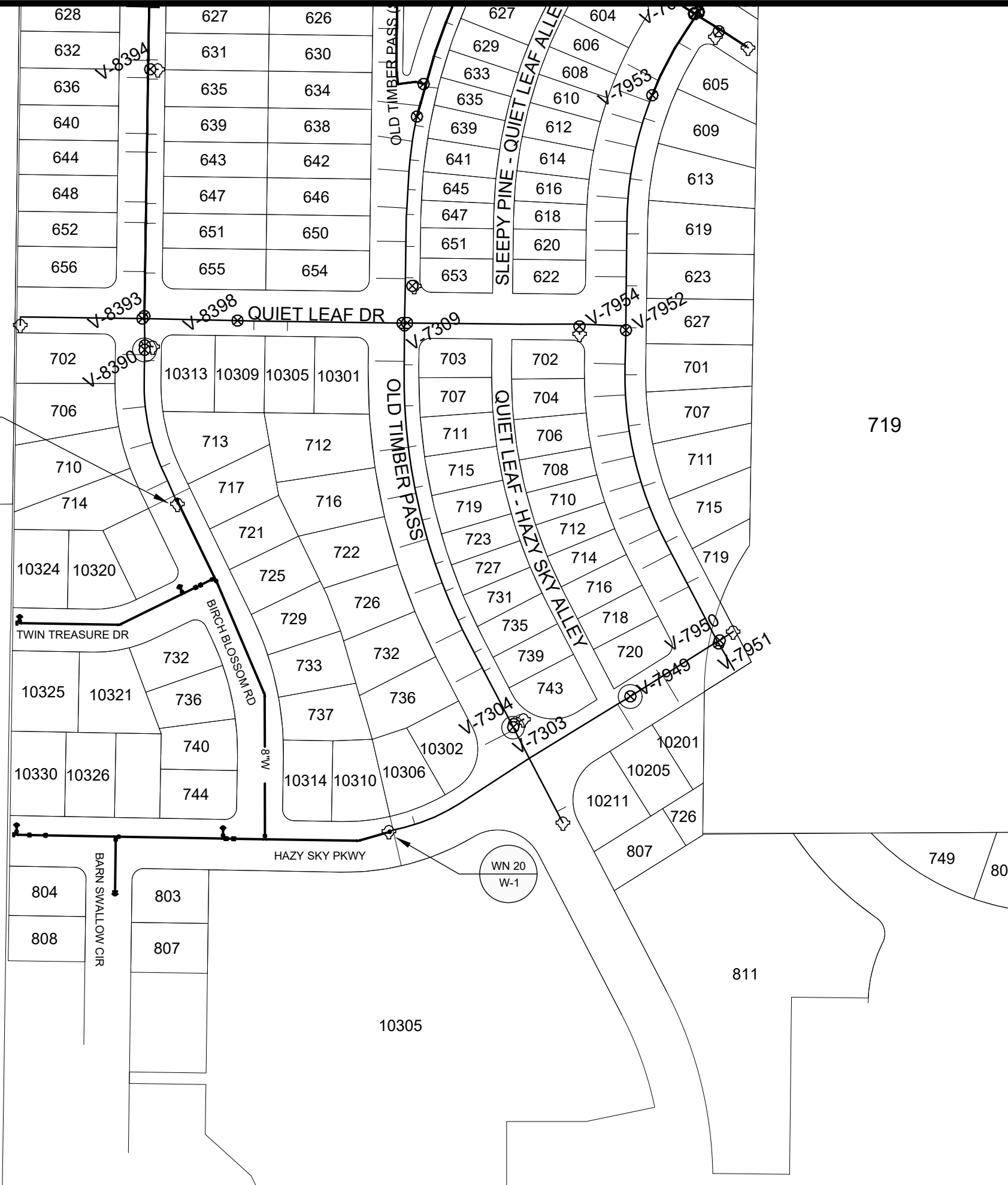
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
 TWIN TREASURE DR - WATER PLAN & PROFILE
CITY OF MADISON, WISCONSIN
 CONTRACT NO: 9090

13852
 W-4



3586

7486



1" = 150'



WN20 W-1 HAZY SKY PKWY, CONNECT TO EX. 8-IN
 ISOLATION VALVES : V-7303 AT OLD TIMBER PASS & V-7949 AT HAZY SKY PKWY
 NOTIFY: 10205 THROUGH 10306 HAZY SKY PARKWAY

WN21 W-3 BIRCH BLOSSOM RD, CONNECT TO EX. 8-IN
 ISOLATION VALVES : V-8390 BIRCH BLOSSOM RD
 NOTIFY: 10313 QUIET LEAF DR AND 702 THROUGH 714 BIRCH BLOSSOM RD

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

WATER IMPACT PLAN HAZY SKY PKWY & BIRCH BLOSSOM RD

CITY OF MADISON, WISCONSIN

CONTRACT NO: 9090

SCALE: 1" = 150'
 DESIGNED BY: TDP
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 4/1/22



13852
 W-5

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.



CONSTRUCTION NOTES:

- 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.
- VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
- MINIMIZE DISRUPTION OF SERVICE TO CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
- THE EXISTING UTILITIES SHOWN ON THIS 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. |
| 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. |

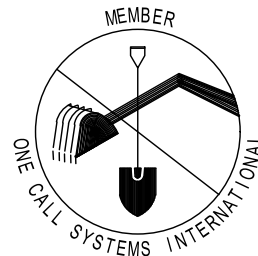
| WATER UTILITY ULO SCHEDULE | | | | |
|----------------------------|---------|---------|--------|-------|
| ULO | UTILITY | STATION | OFFSET | SHEET |

| PAY ITEM ID | DESCRIPTION | QUANTITY | UNIT |
|-------------|---------------------------------------------|----------|------|
| 70002 | FURNISH AND INSTALL 6-INCH PIPE & FITTINGS | 45 | LNFT |
| 70003 | FURNISH AND INSTALL 8-INCH PIPE & FITTINGS | 1380 | LNFT |
| 70031 | FURNISH AND INSTALL 6-INCH WATER VALVE | 4 | EACH |
| 70032 | FURNISH AND INSTALL 8-INCH WATER VALVE | 7 | EACH |
| 70040 | FURNISH AND INSTALL AND SALVAGE HYDRANT | 3 | EACH |
| 70041 | RELOCATE HYDRANT | 2 | EACH |
| 70050 | FURNISH AND INSTALL 1-INCH SERVICE LATERALS | 24 | EACH |
| 70101 | FURNISH AND INSTALL STYROFOAM | 16 | EACH |
| 71123 | 8-IN 45° BEND | 12 | EACH |
| 71135 | 8-IN 22-1/2° BEND | 2 | EACH |
| 71147 | 8-IN 11-1/4° BEND | 1 | EACH |
| 71159 | 8X6-IN REDUCER | 3 | EACH |
| 71210 | 8X6-IN TEE | 4 | EACH |
| 71211 | 8X8-IN TEE | 3 | 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

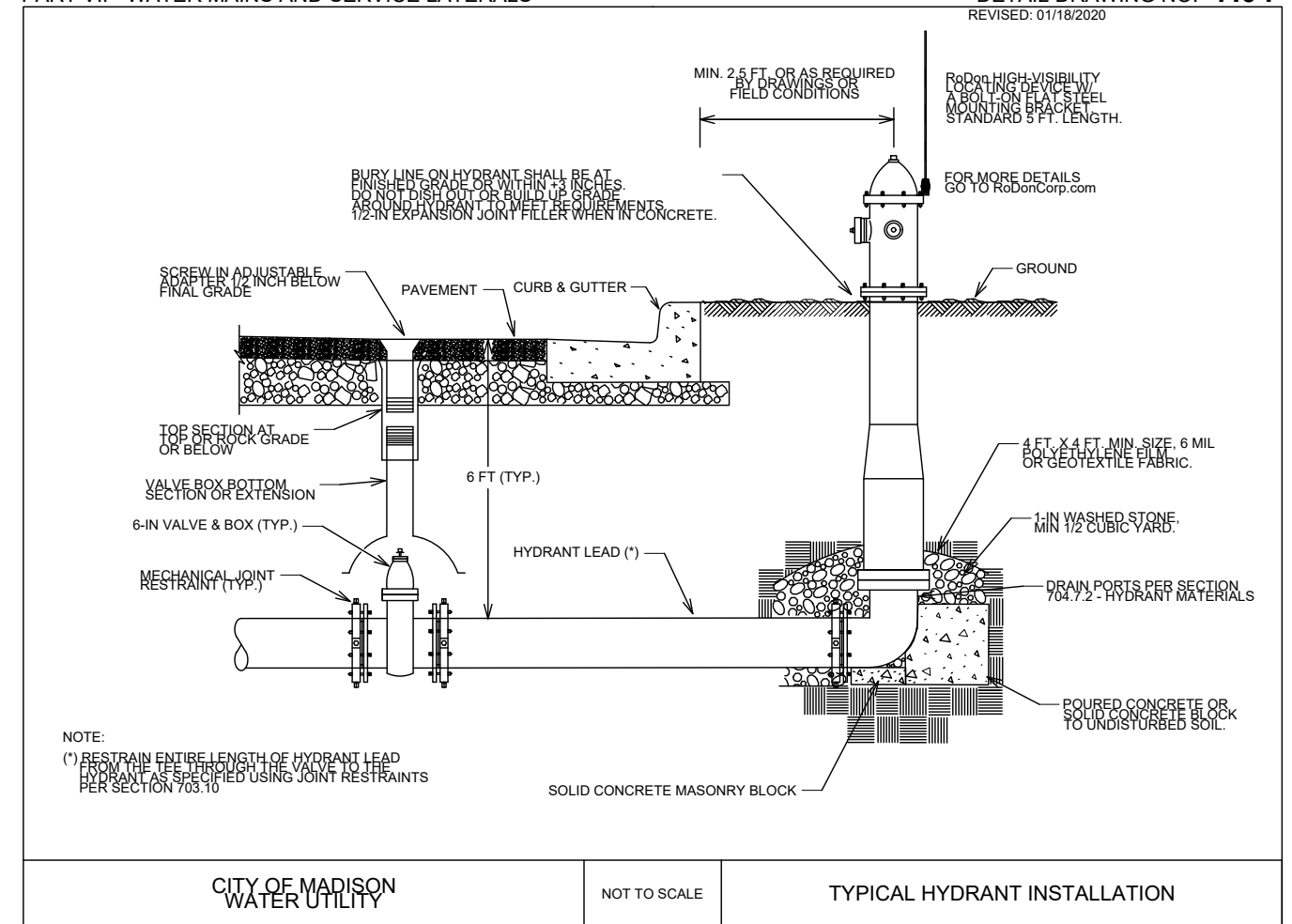
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



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

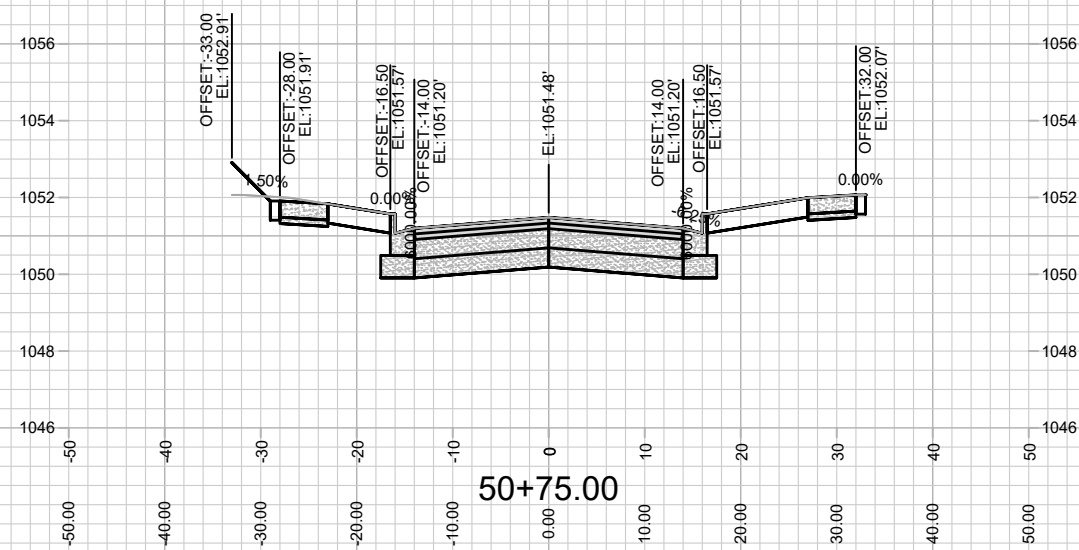
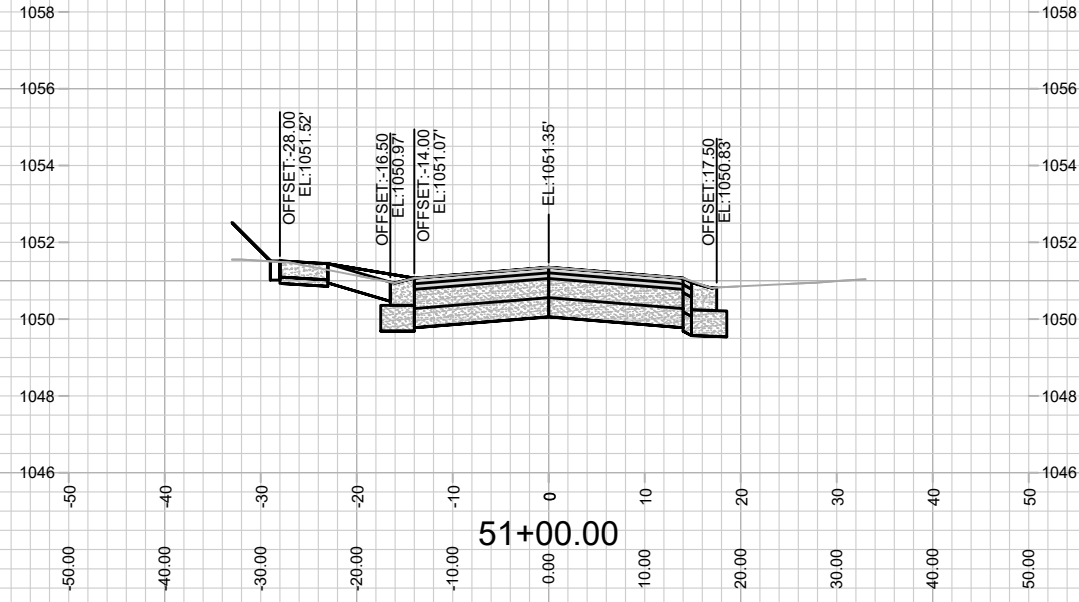
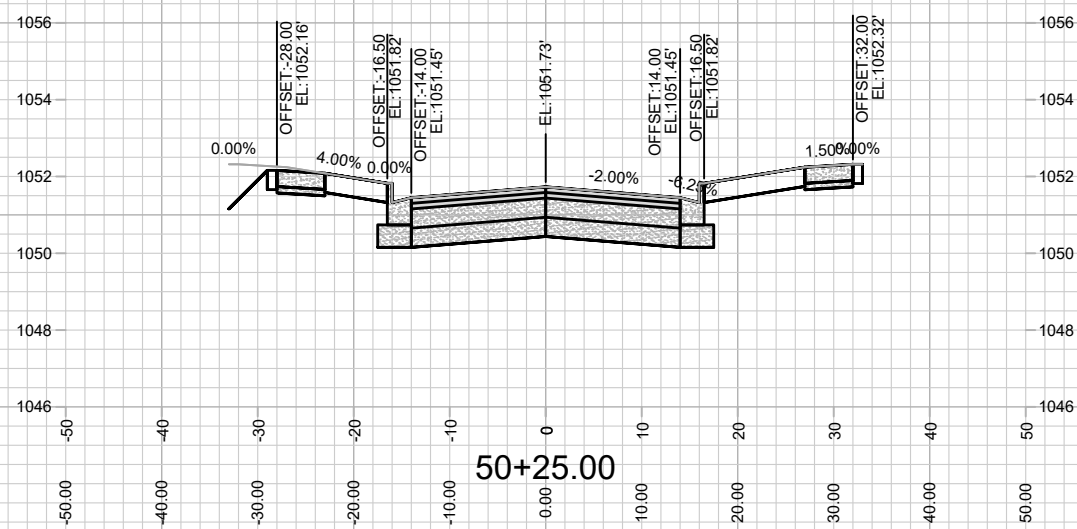
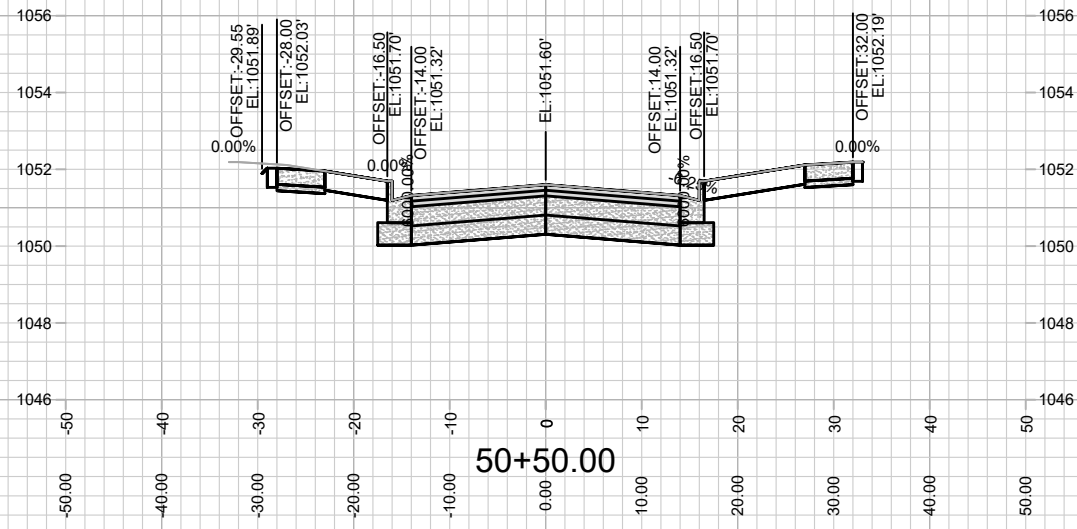


SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
WATER ESTIMATE OF MATERIALS
CITY OF MADISON, WISCONSIN

SCALE: N/A
DESIGNED BY: TDP
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 2/28/22

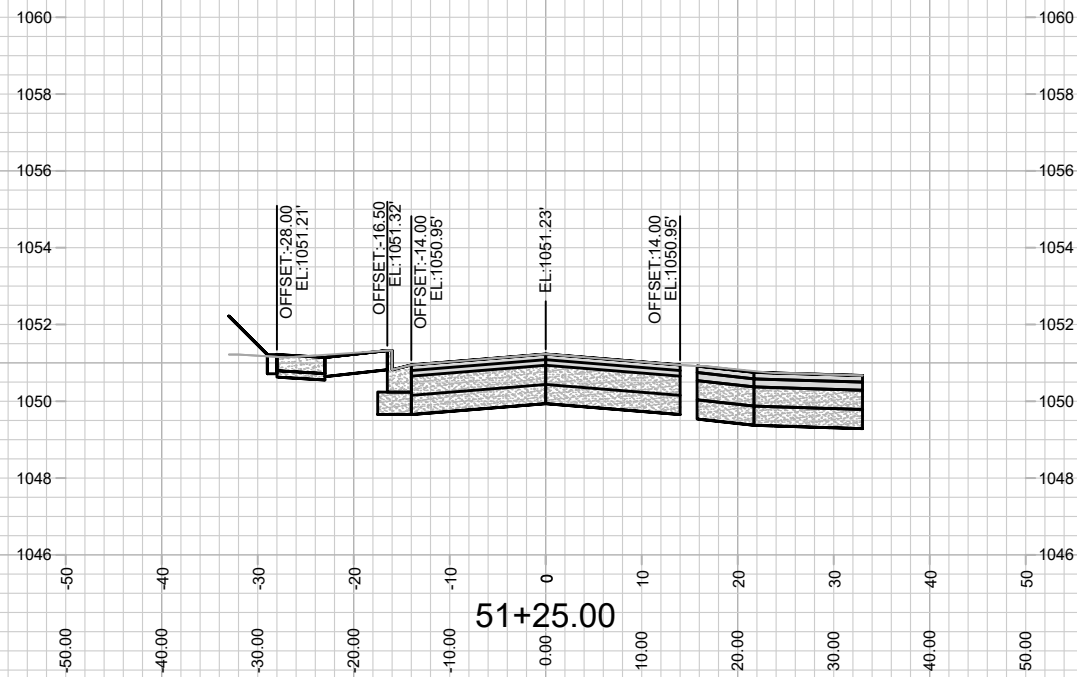
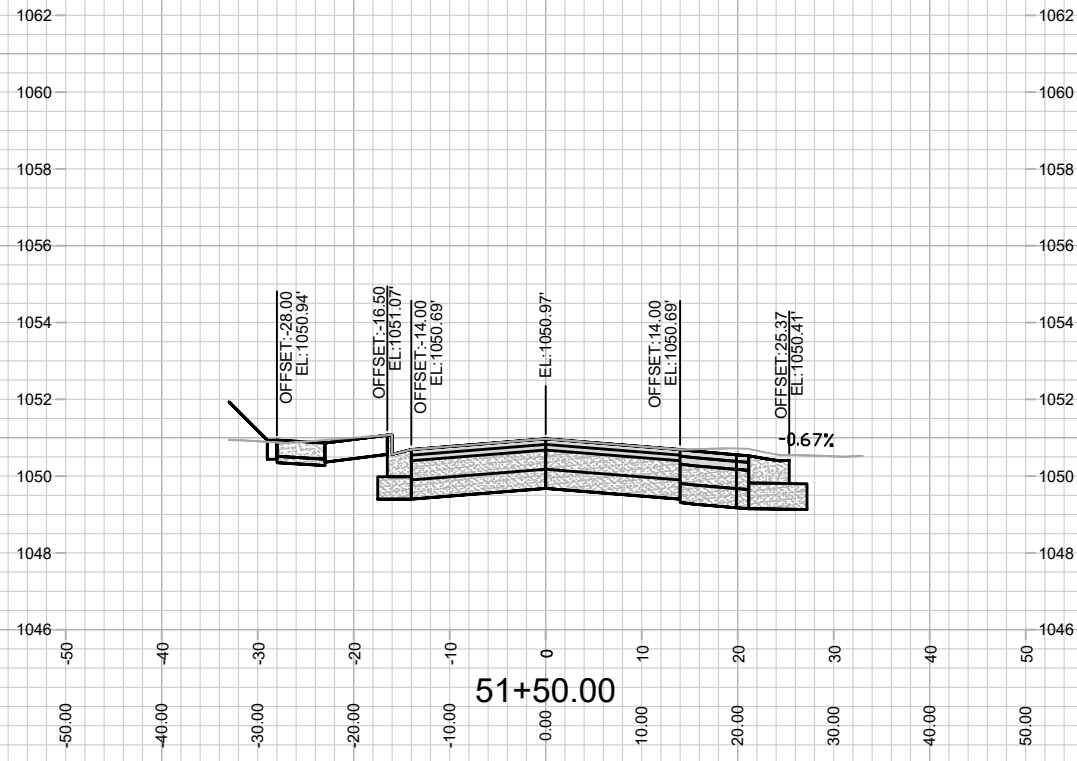


13852
W-6



| | | | |
|-------------------|-------------------|--------------|----|
| MARK | REVISION | DATE | BY |
| 13852 | 2/25/2022 7:01 AM | | |
| Designed By: LMC | | Scale: ##### | |
| Contract No: 9090 | | X-1 | |

13852
MADISON, WI
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
 HAZY SKY PARKWAY - CROSS SECTION
 CONTRACT NO: 9090
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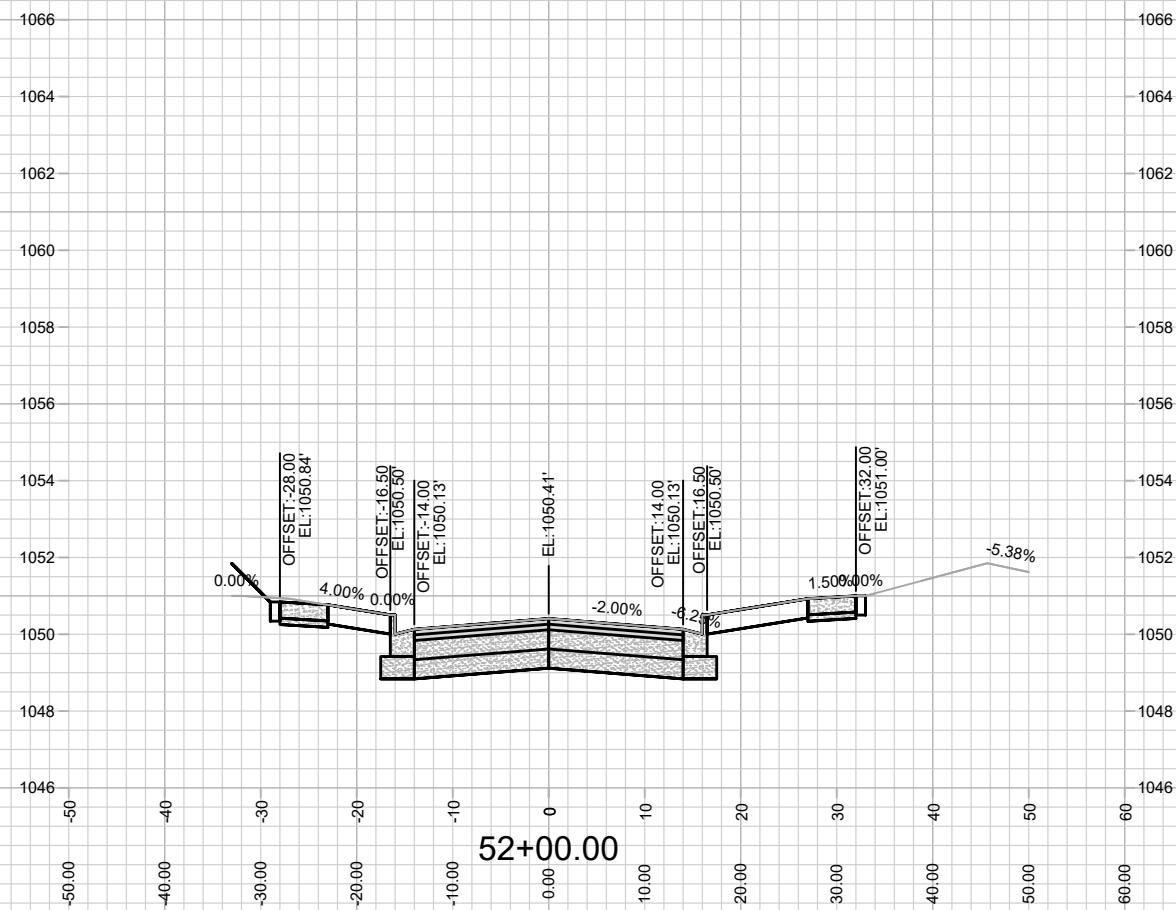
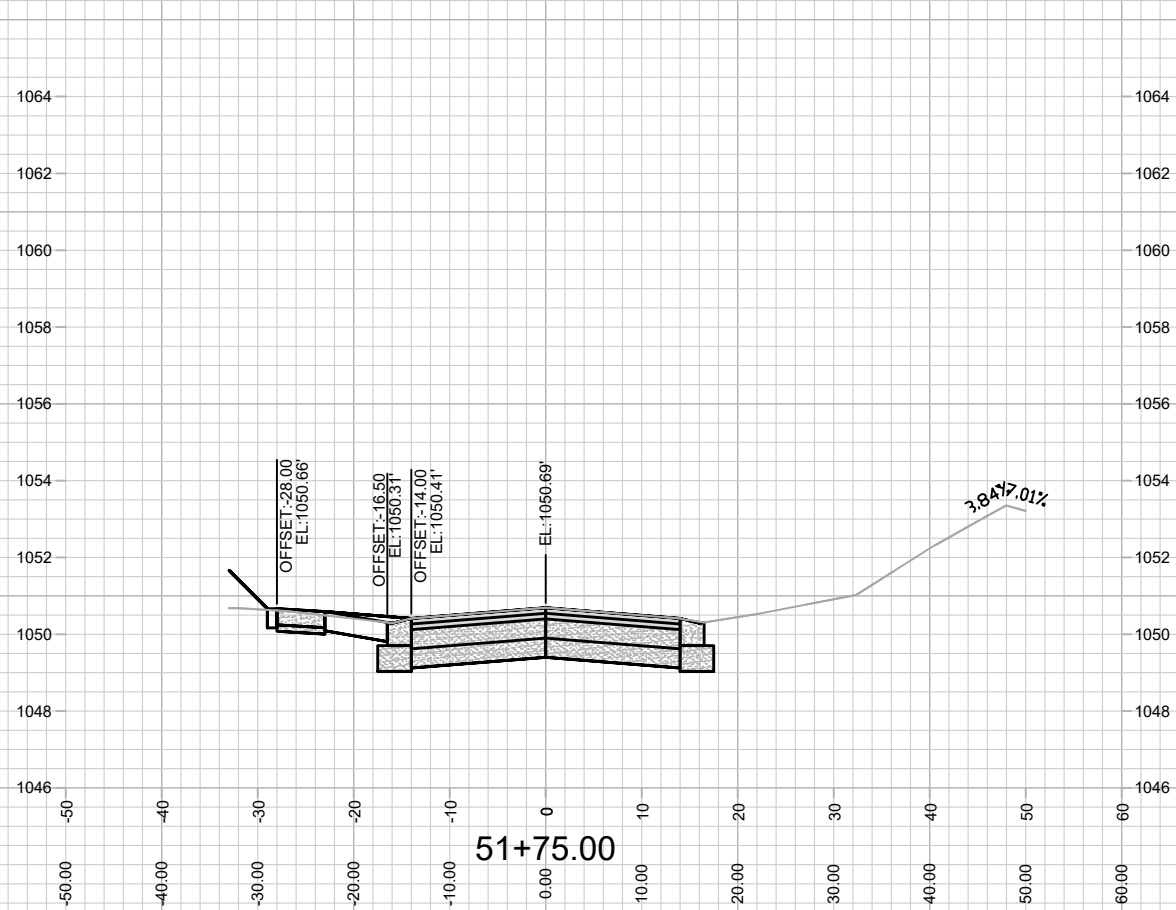


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13852
 MADISON, WI
 SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
 CONTRACT NO: 9090
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13852
 X-2

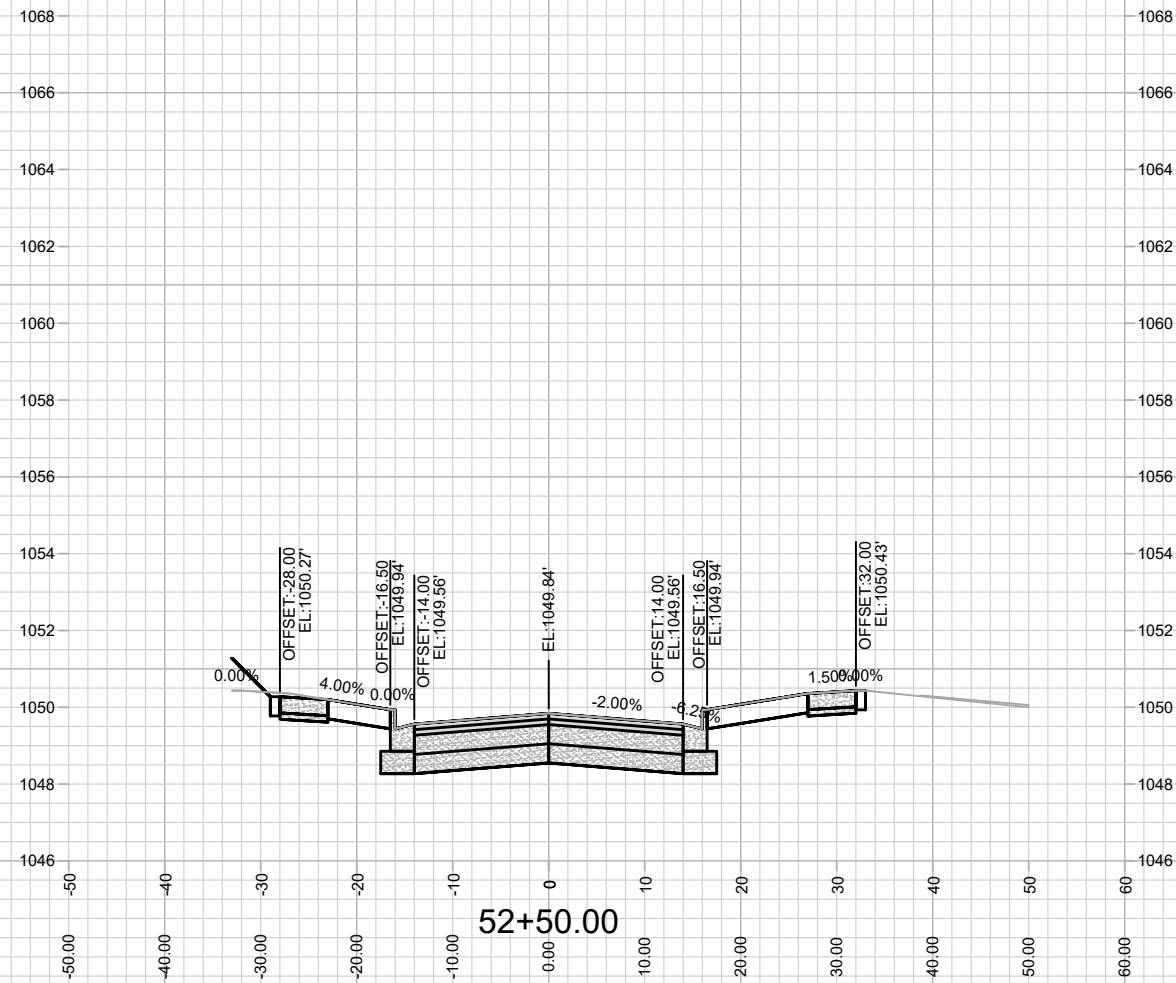
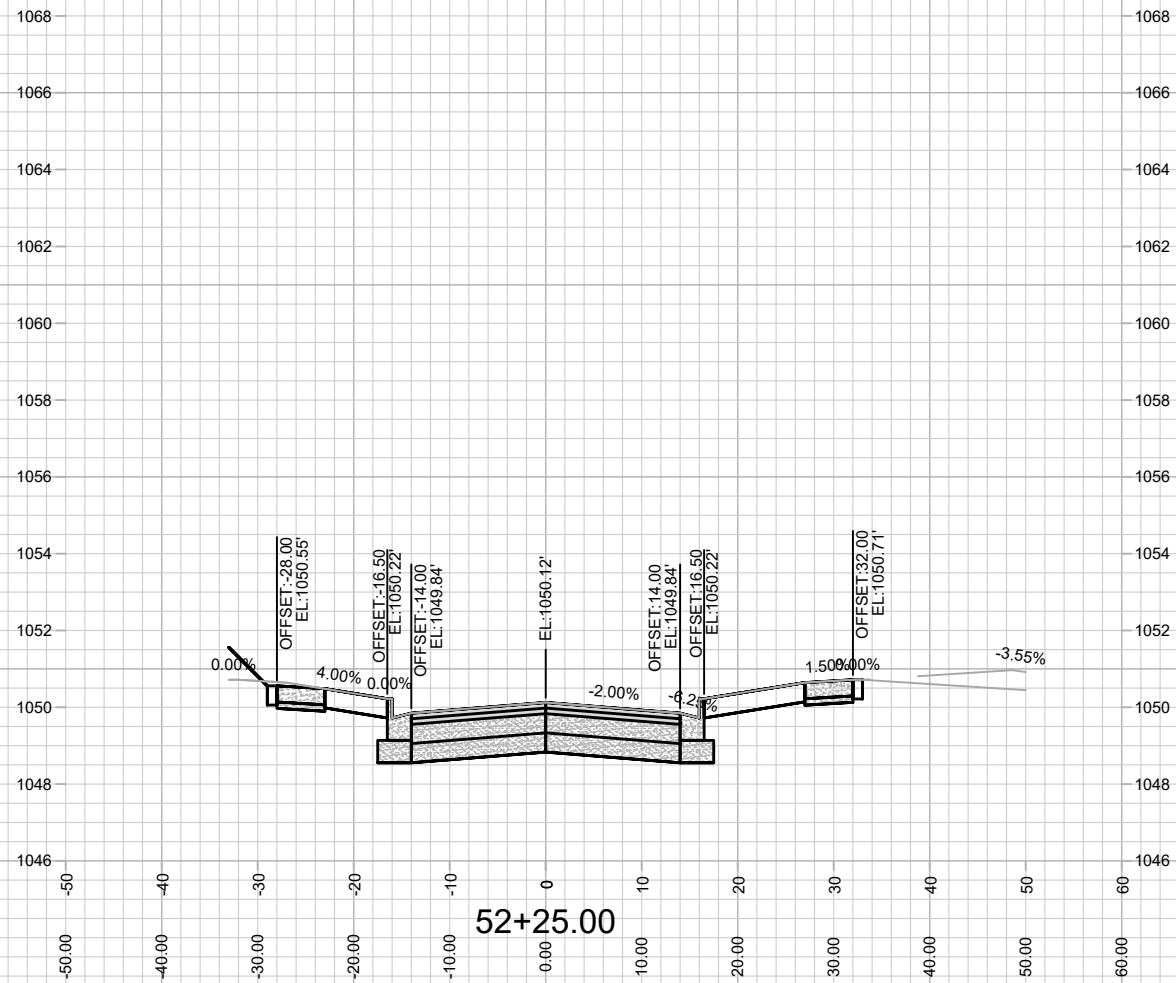


13852
X-3

HAZY SKY PARKWAY - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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13852
MADISON, WI
9090
CONTRACT NO:

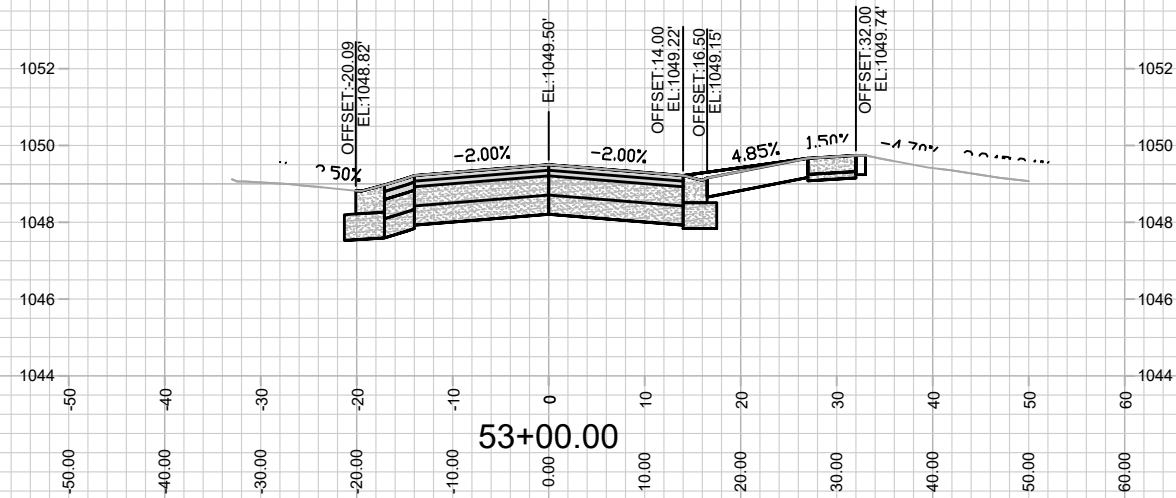
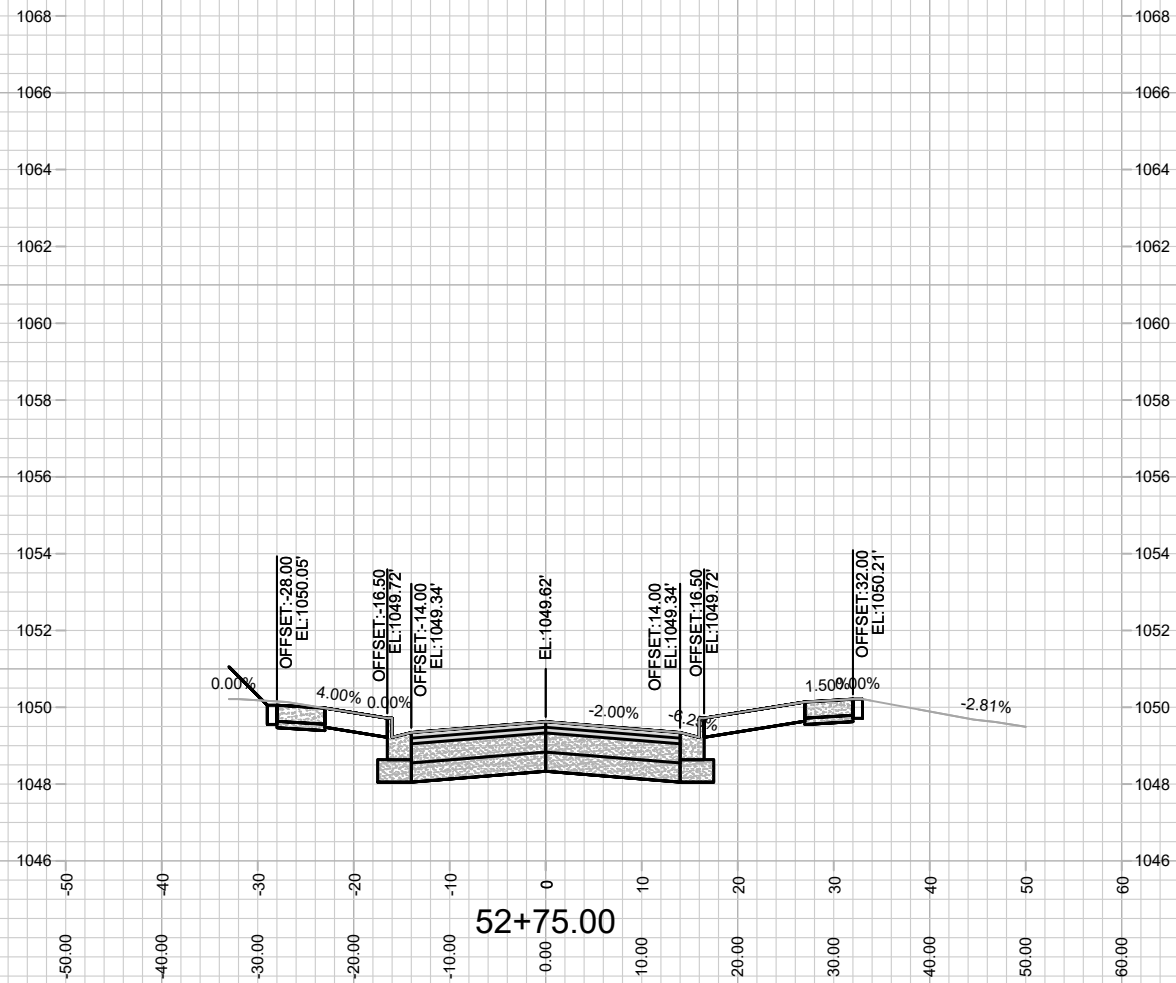
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13852
 MADISON, WI
 CONTRACT NO: 9090
 HAZY SKY PARKWAY - CROSS SECTION
 SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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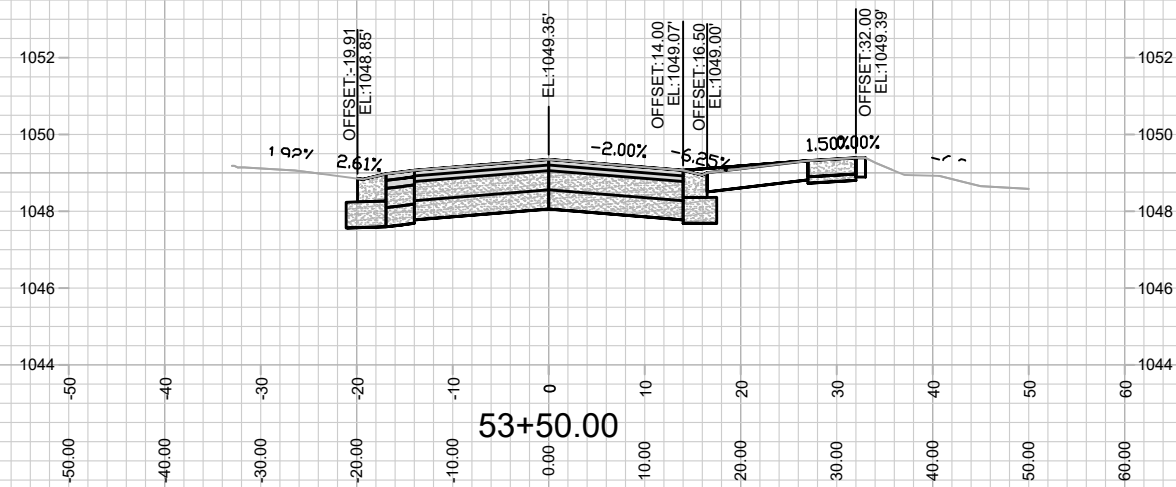
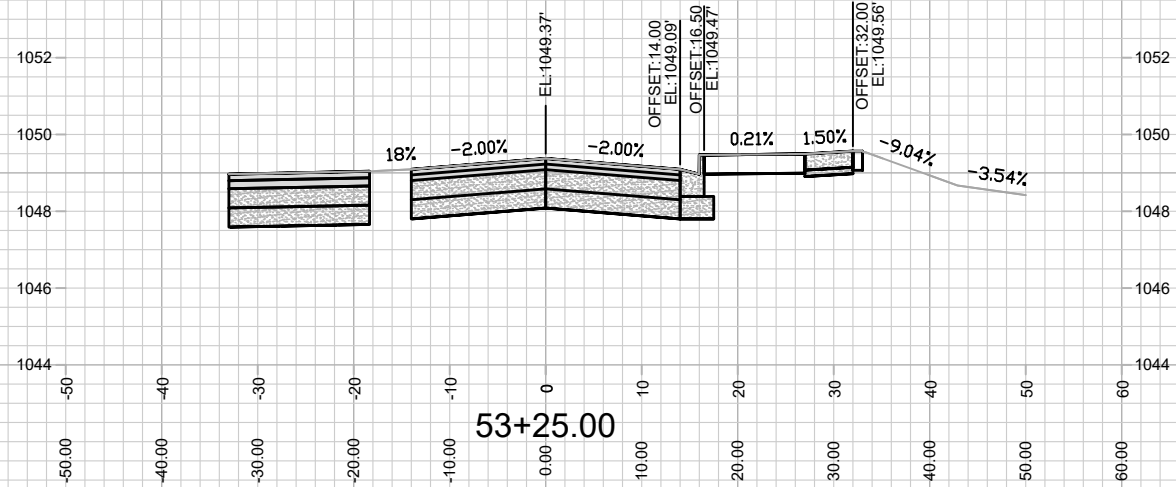
13852
 X-4



13852
X-5

HAZY SKY PARKWAY - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
13852
MADISON, WI
9090
CONTRACT NO:

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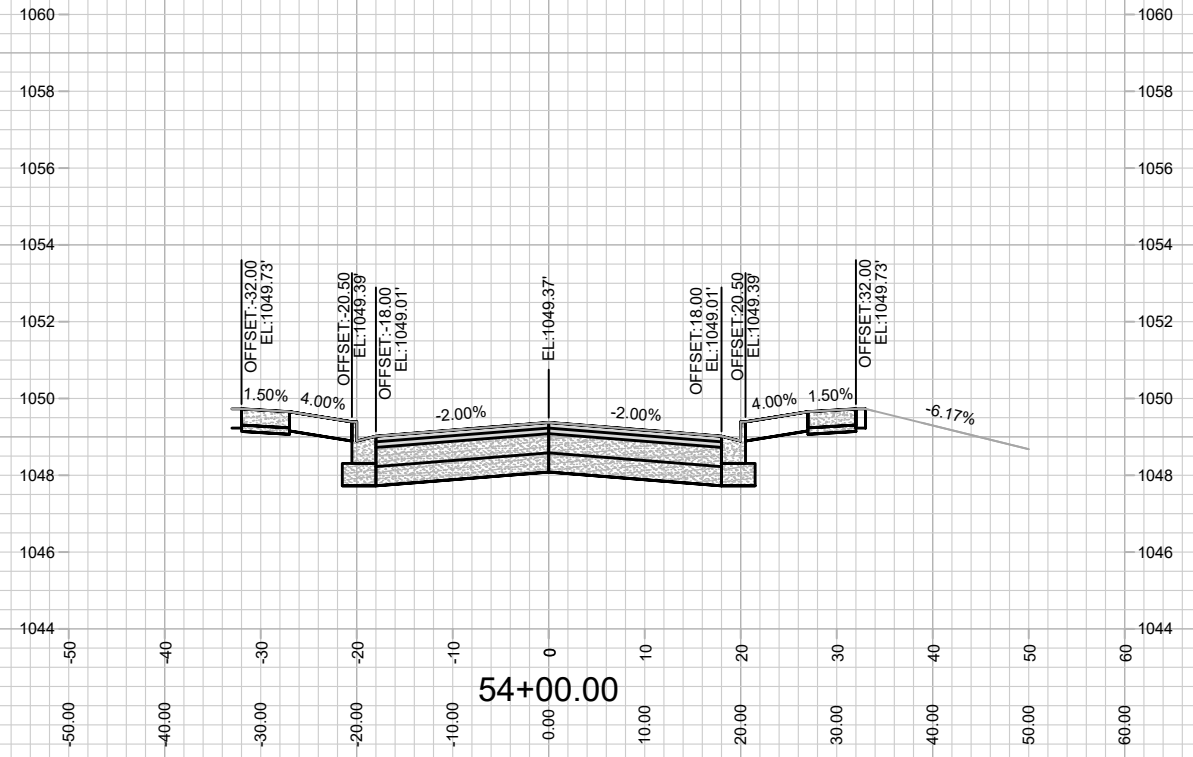
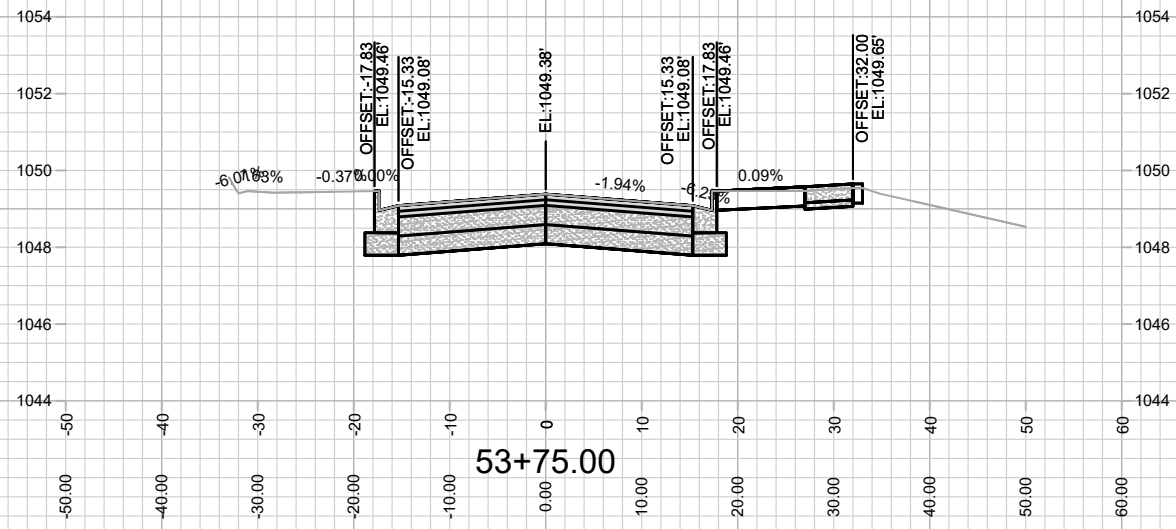


13852
X-6

HAZY SKY PARKWAY - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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13852
MADISON, WI
9090
CONTRACT NO:

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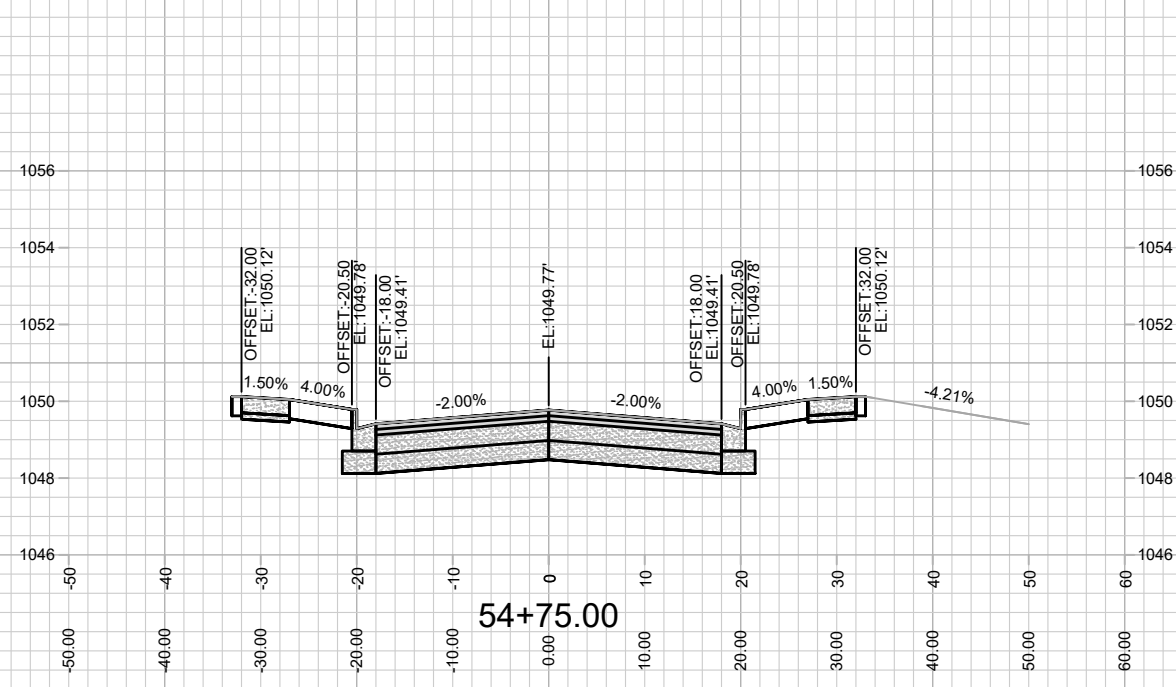
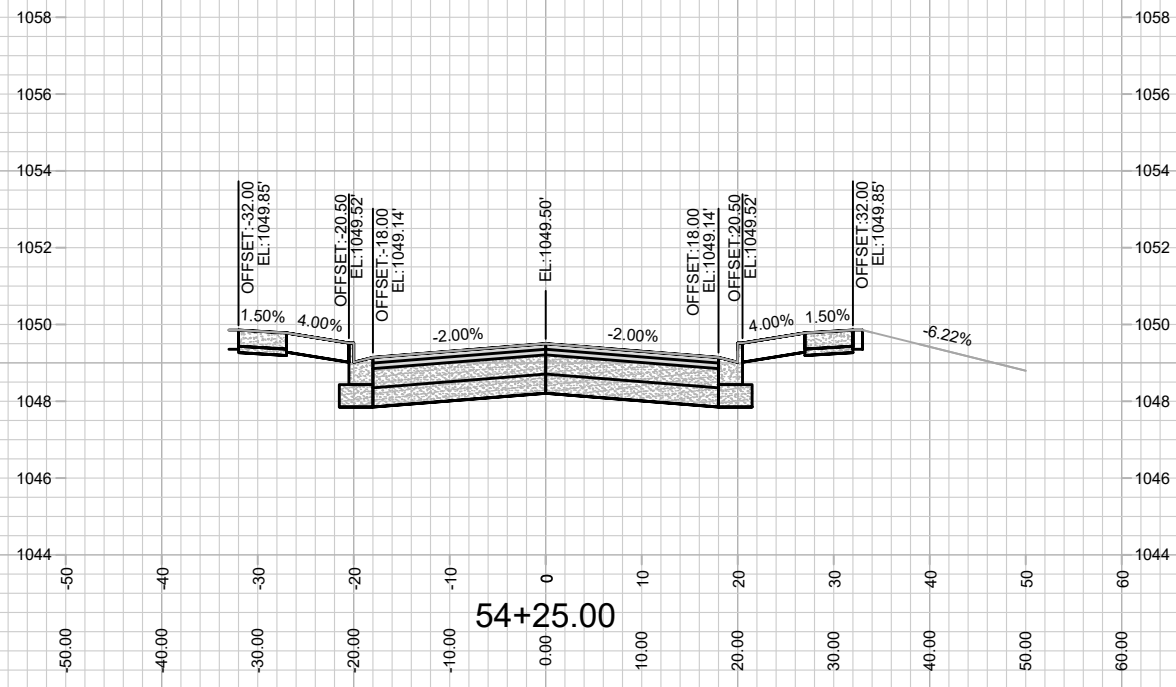
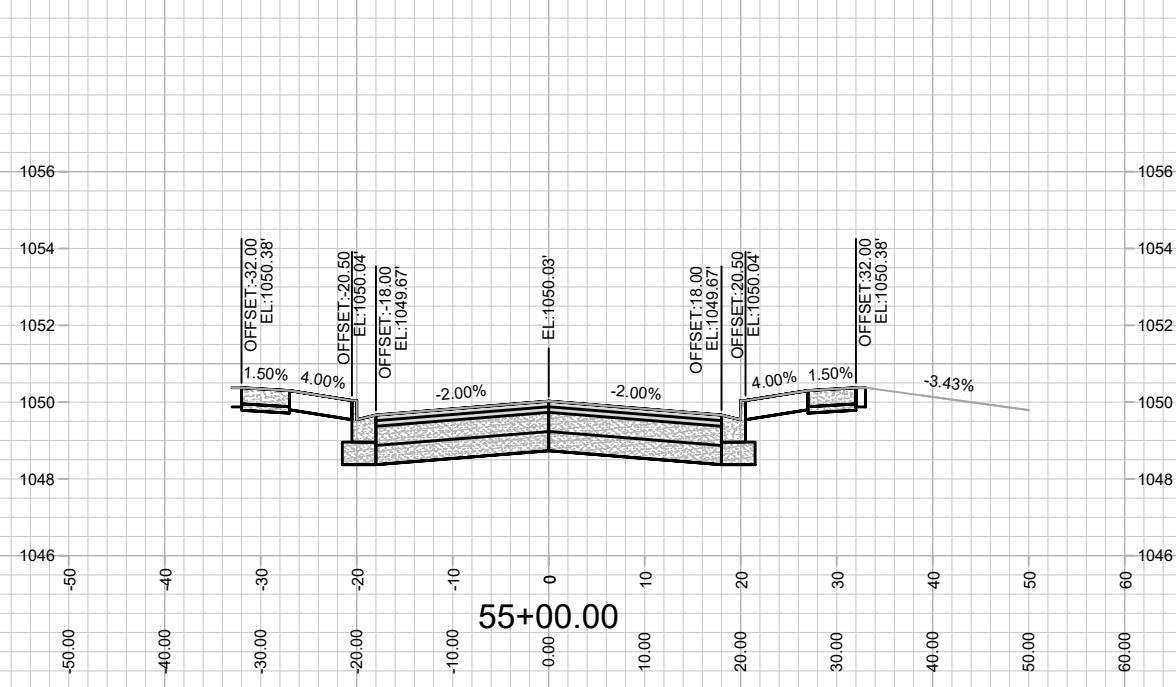
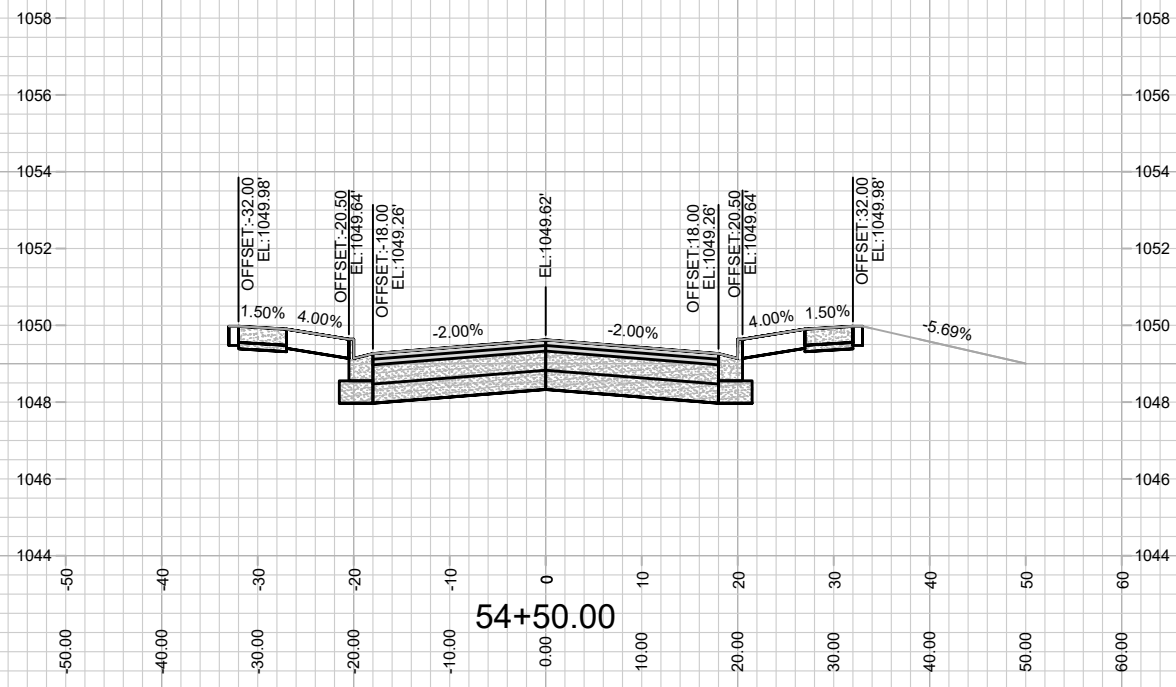
13852
X-7

Hazy Sky Parkway - Cross Section
Southern Addition to Birchwood Point Phase 5

13852
MADISON, WI
9090
CONTRACT NO:

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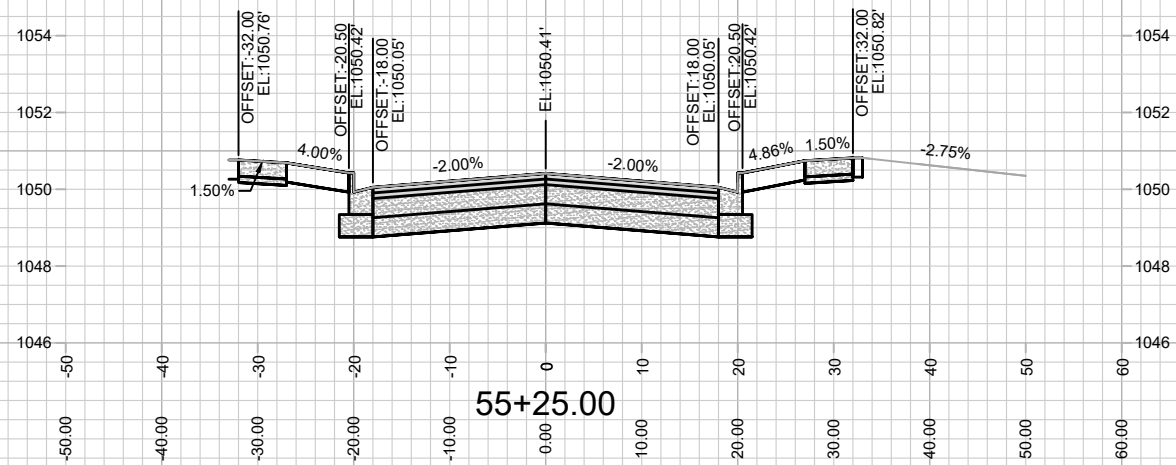
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MADISON, WI
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CONTRACT NO:

HAZY SKY PARKWAY - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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13852
X-8

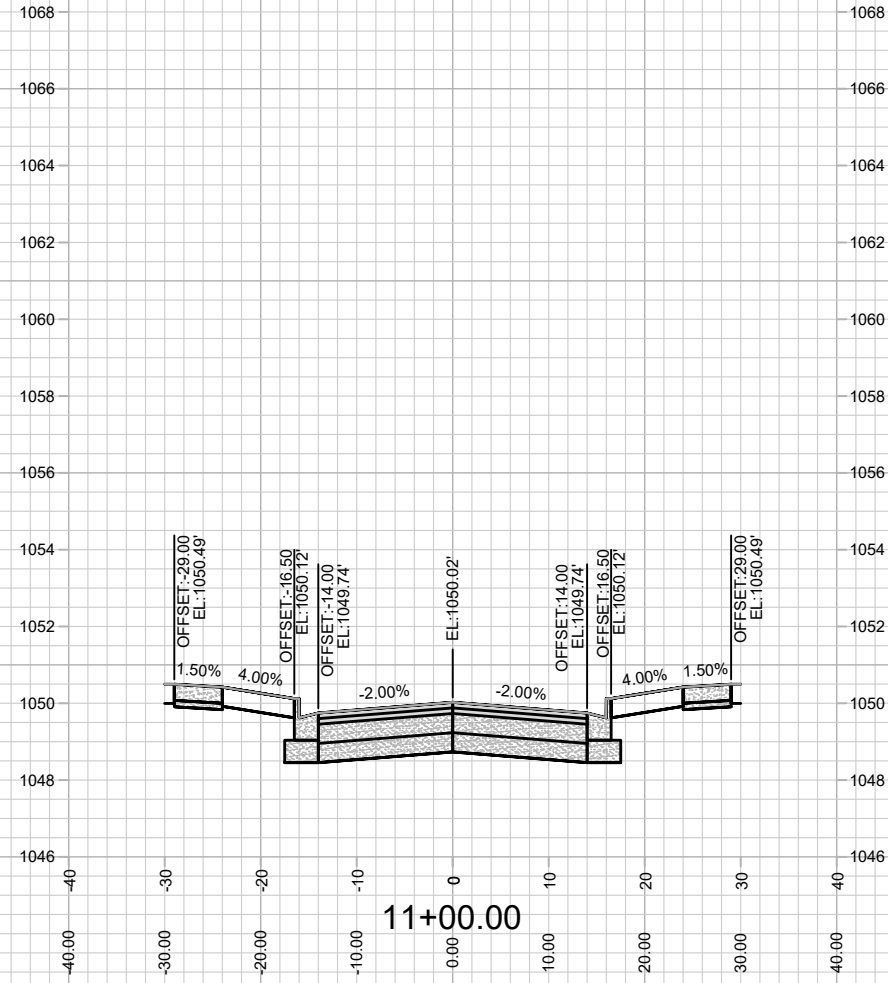
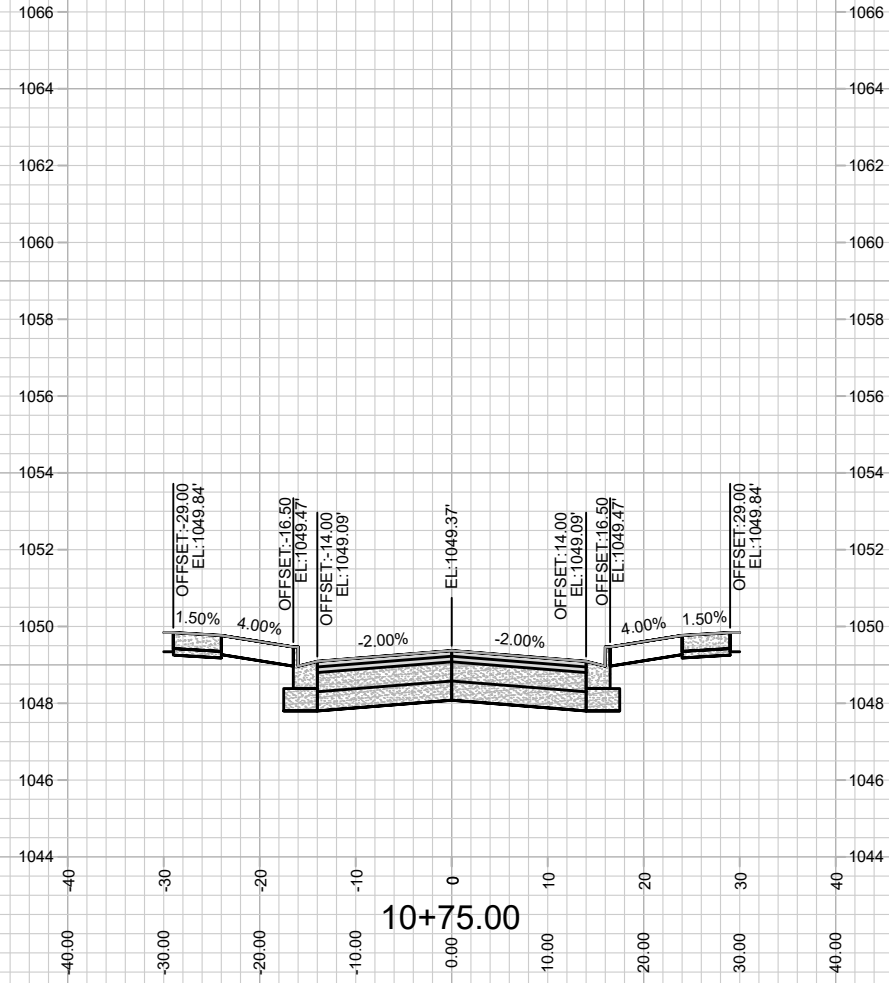


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HAZY SKY PARKWAY - CROSS SECTION
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 MADISON, WI
 9090
 CONTRACT NO:
 13852
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 X-9



13852
X-10

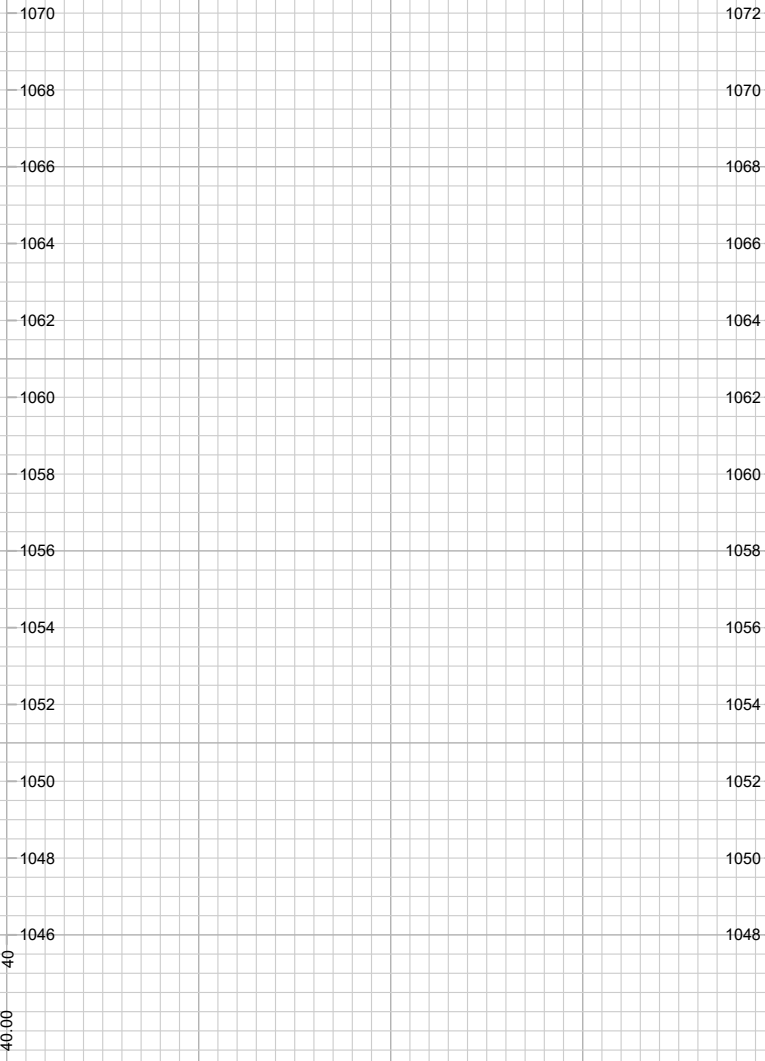
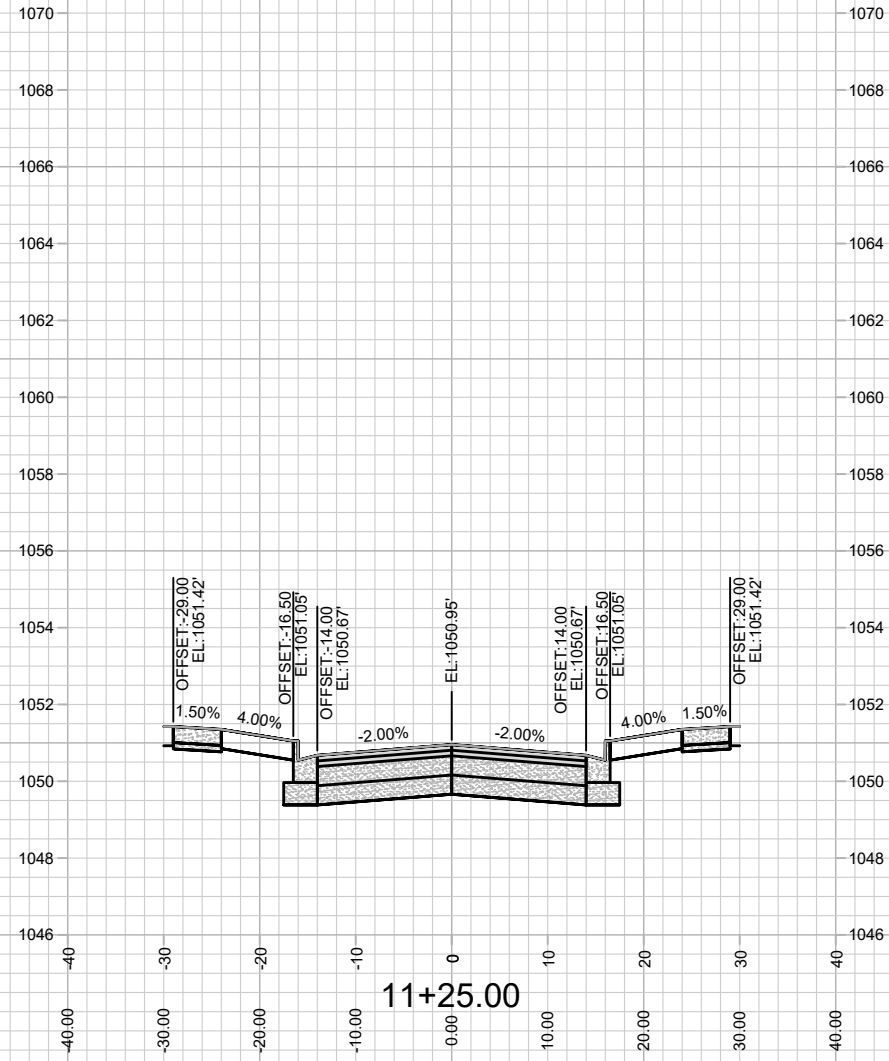
BIRCH BLOSSOM ROAD - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

13852
MADISON, WI
9090

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13852
X-11

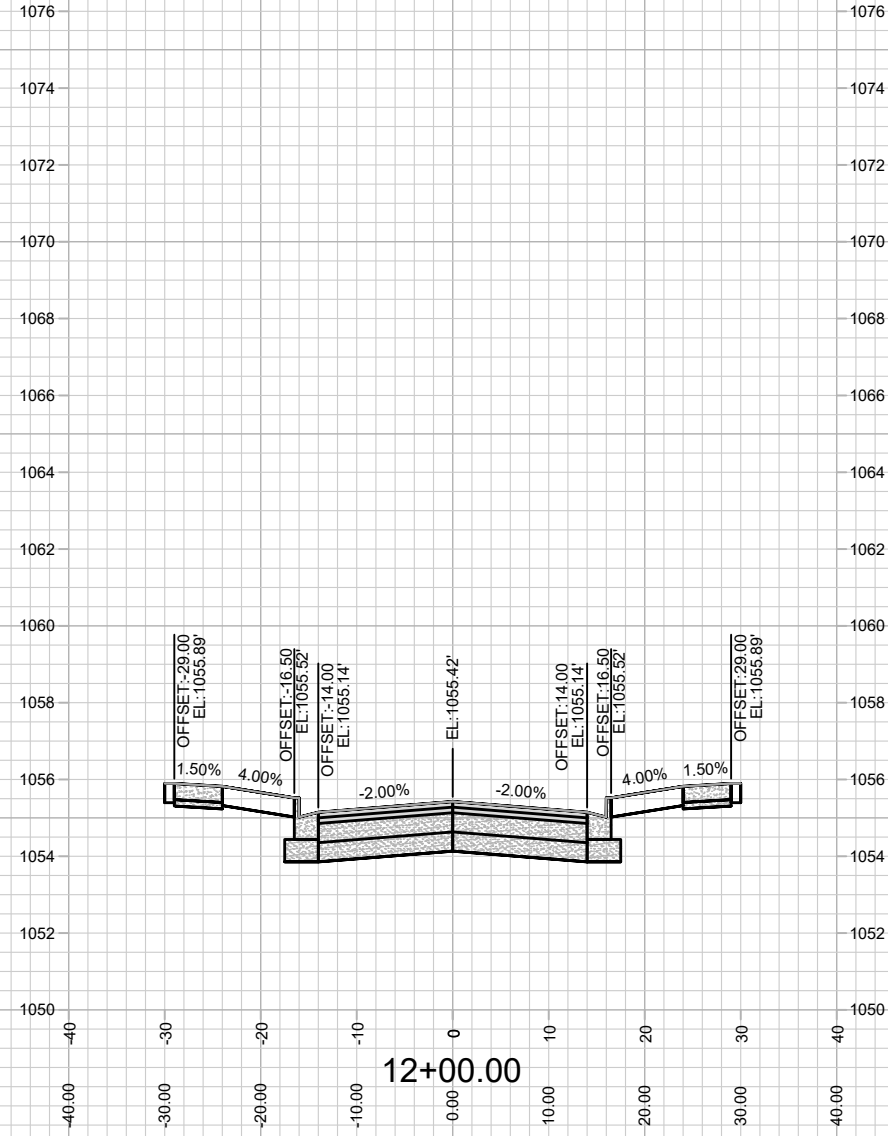
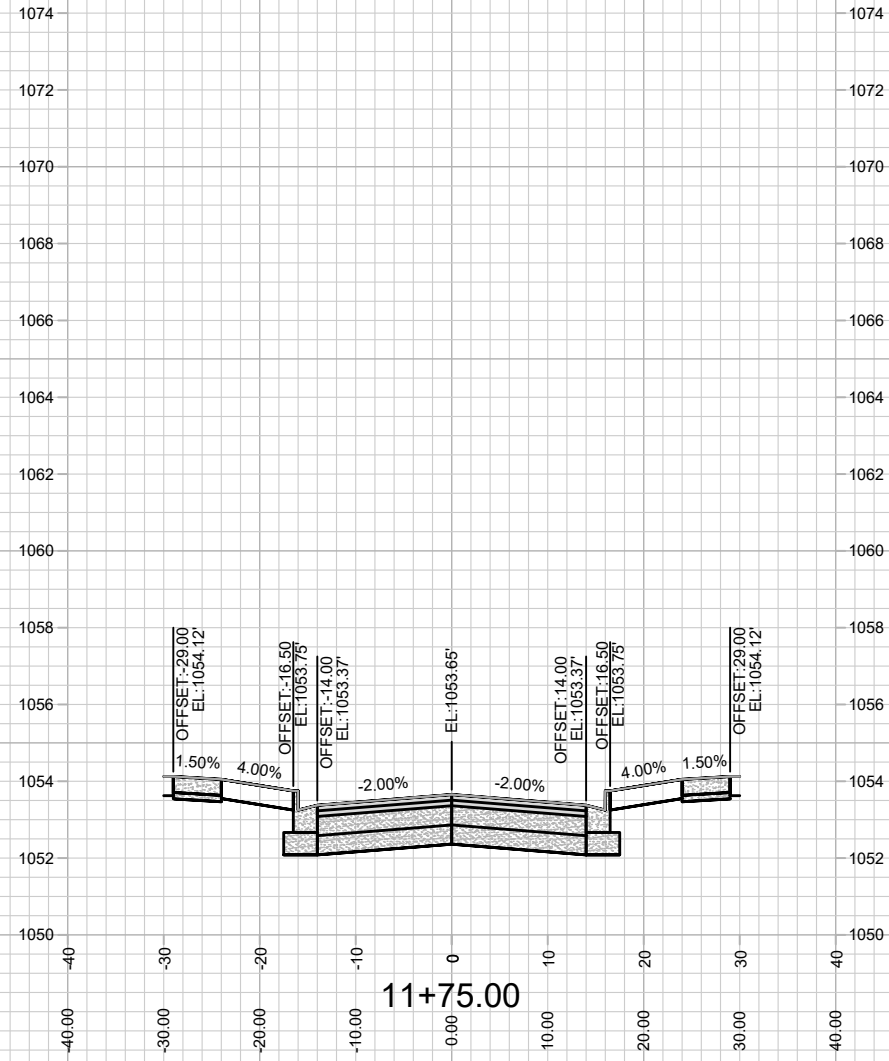
BIRCH BLOSSOM ROAD - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

13852
MADISON, WI
9090

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X-12

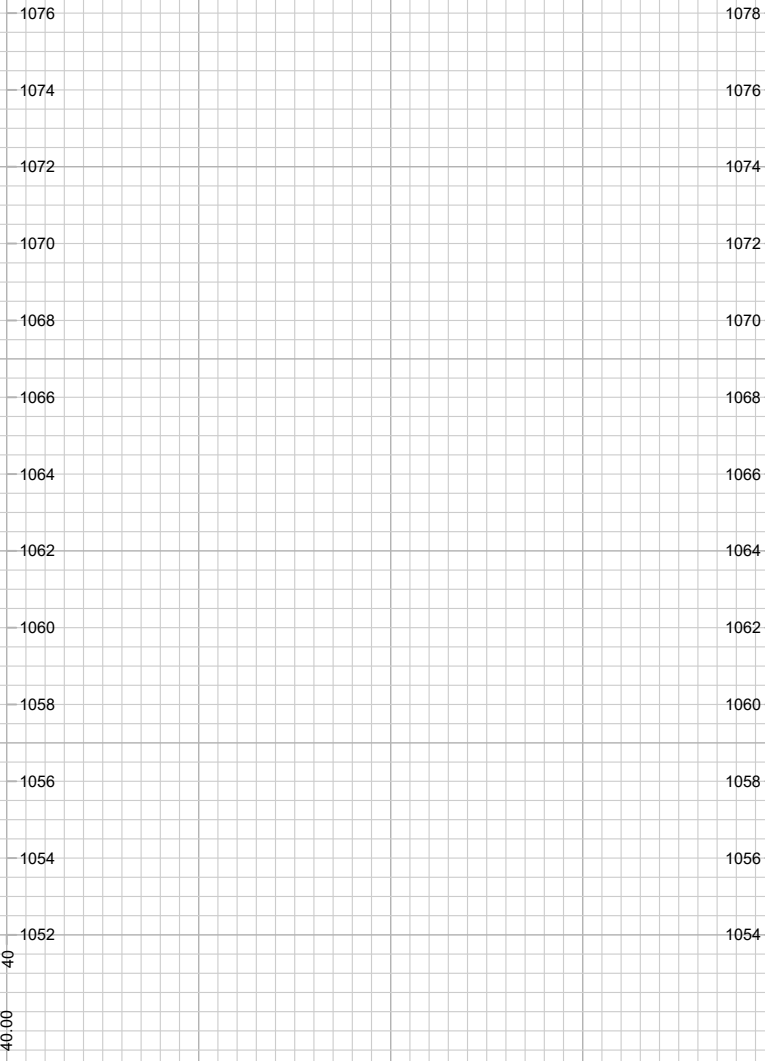
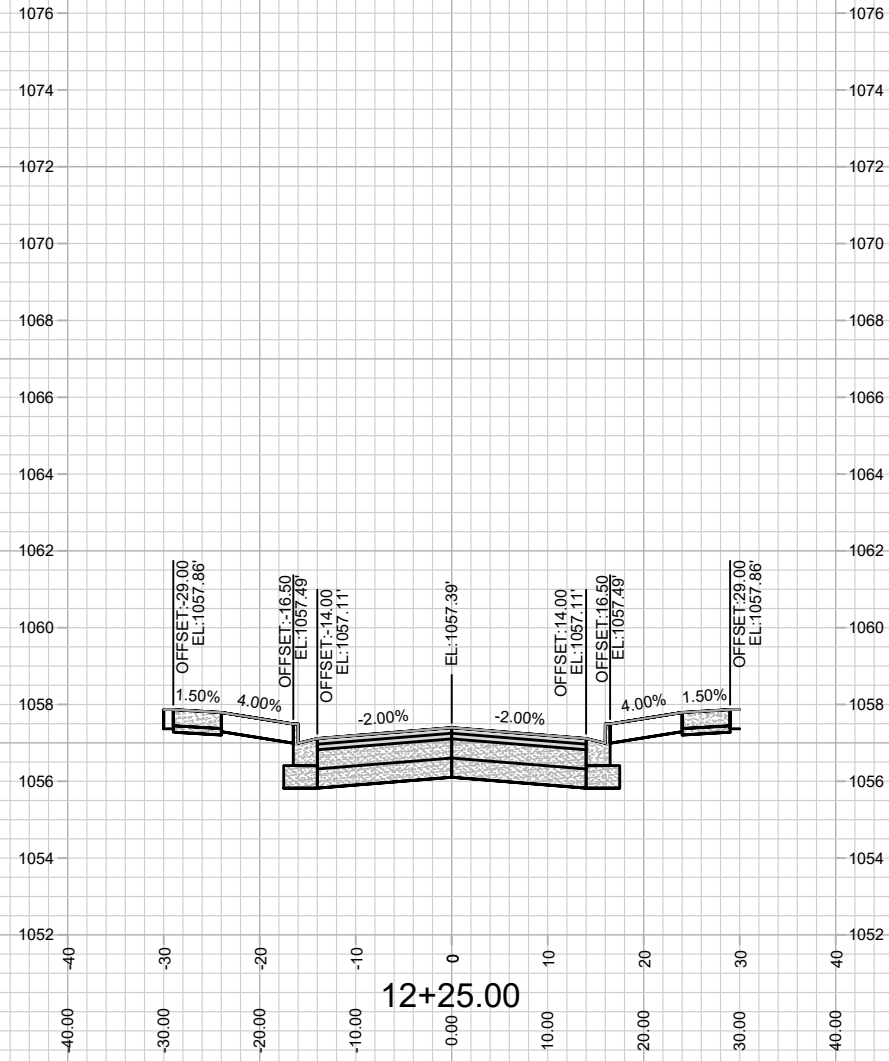
BIRCH BLOSSOM ROAD - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

13852
MADISON, WI
9090

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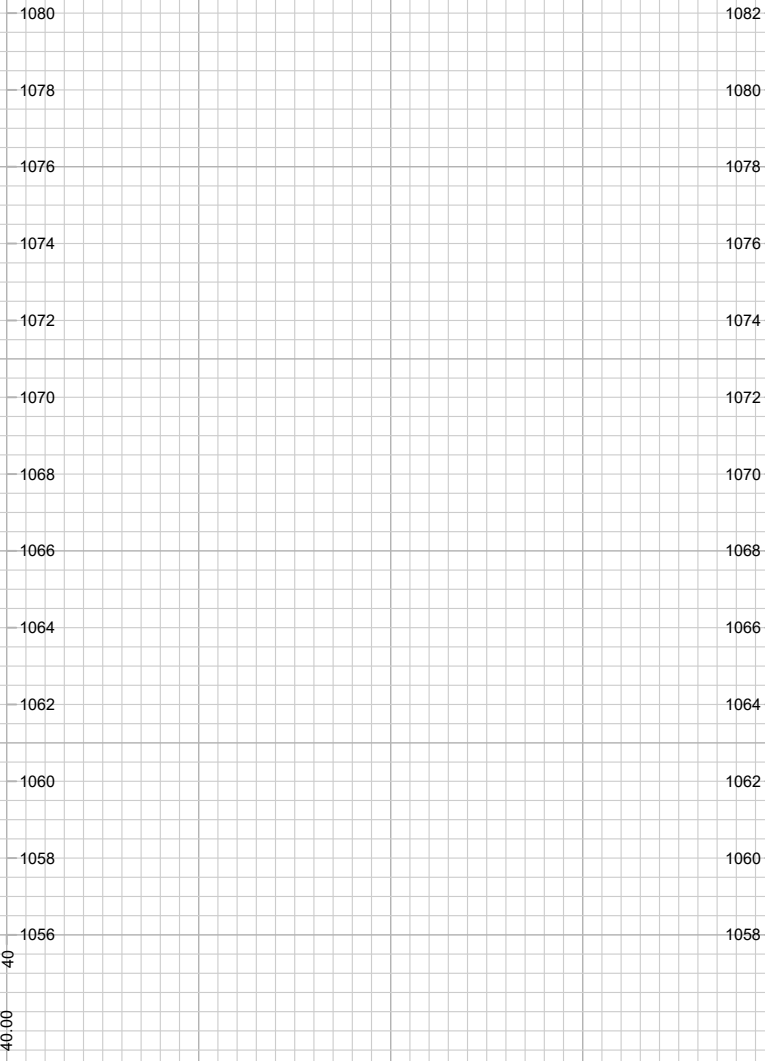
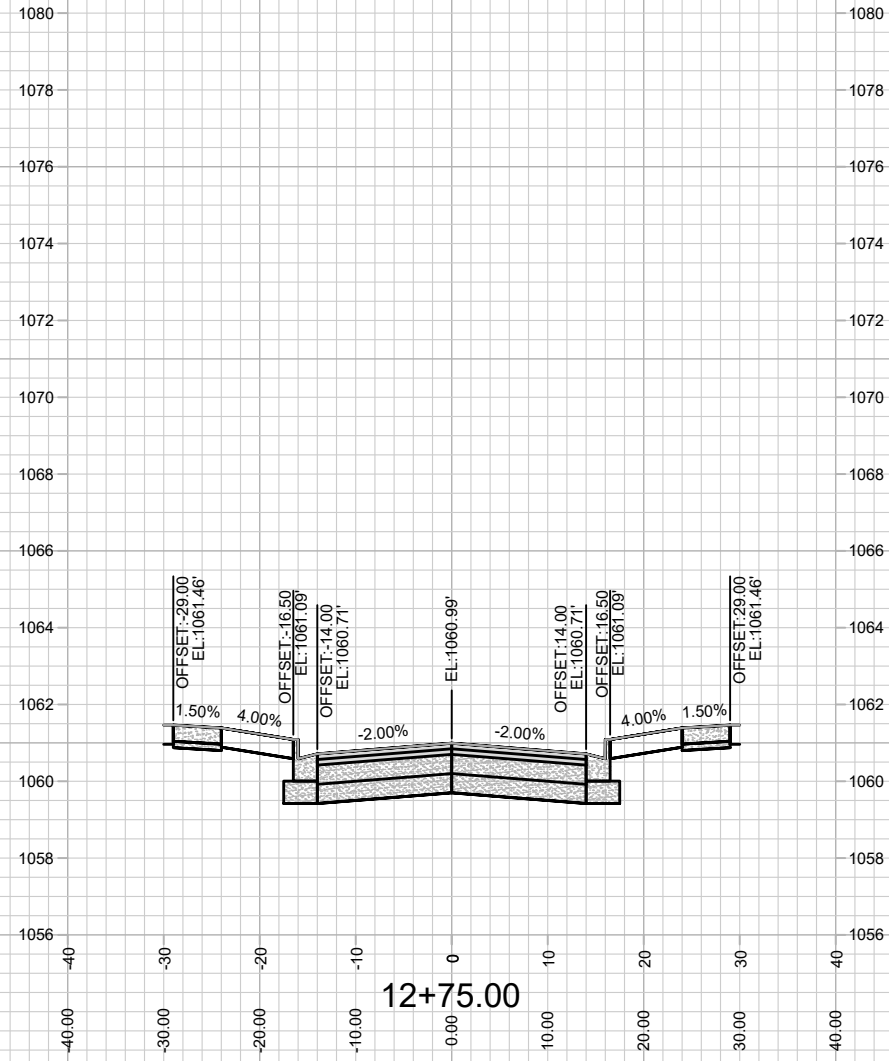
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MADISON, WI
9090
CONTRACT NO:

BIRCH BLOSSOM ROAD - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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13852
X-13



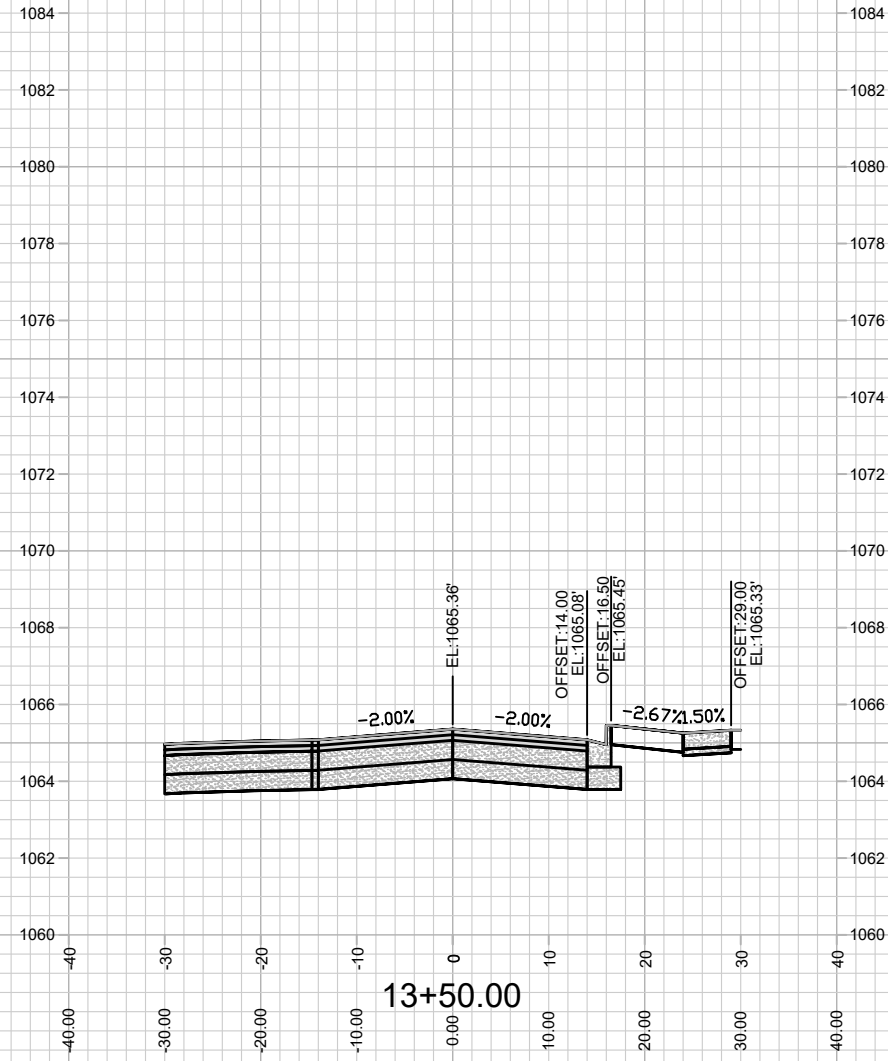
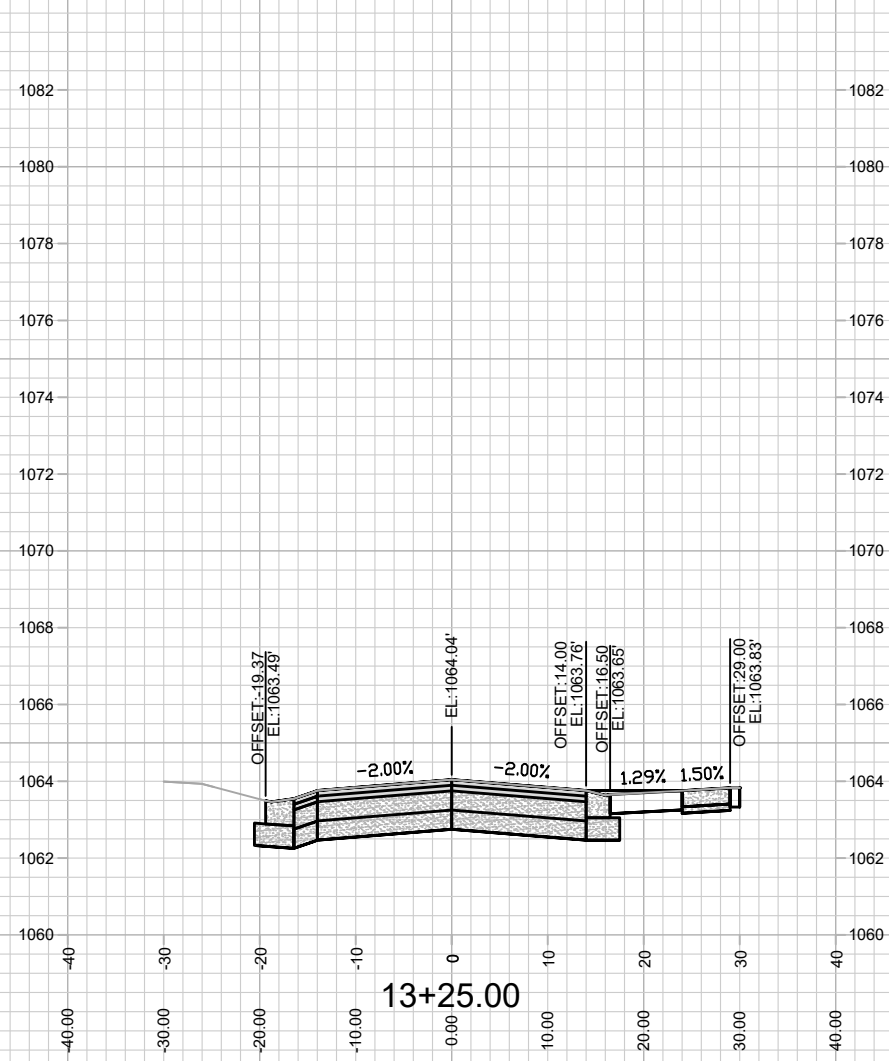
13852
X-14

BIRCH BLOSSOM ROAD - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

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MADISON, WI
9090

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X-15

BIRCH BLOSSOM ROAD - CROSS SECTION

SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

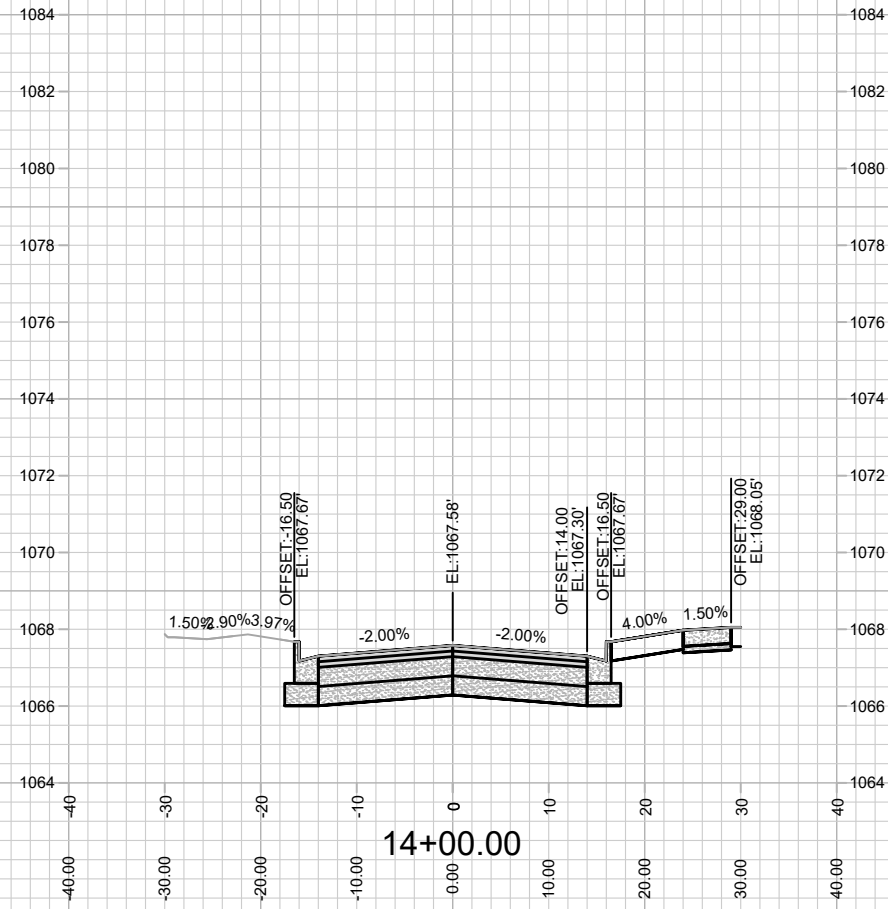
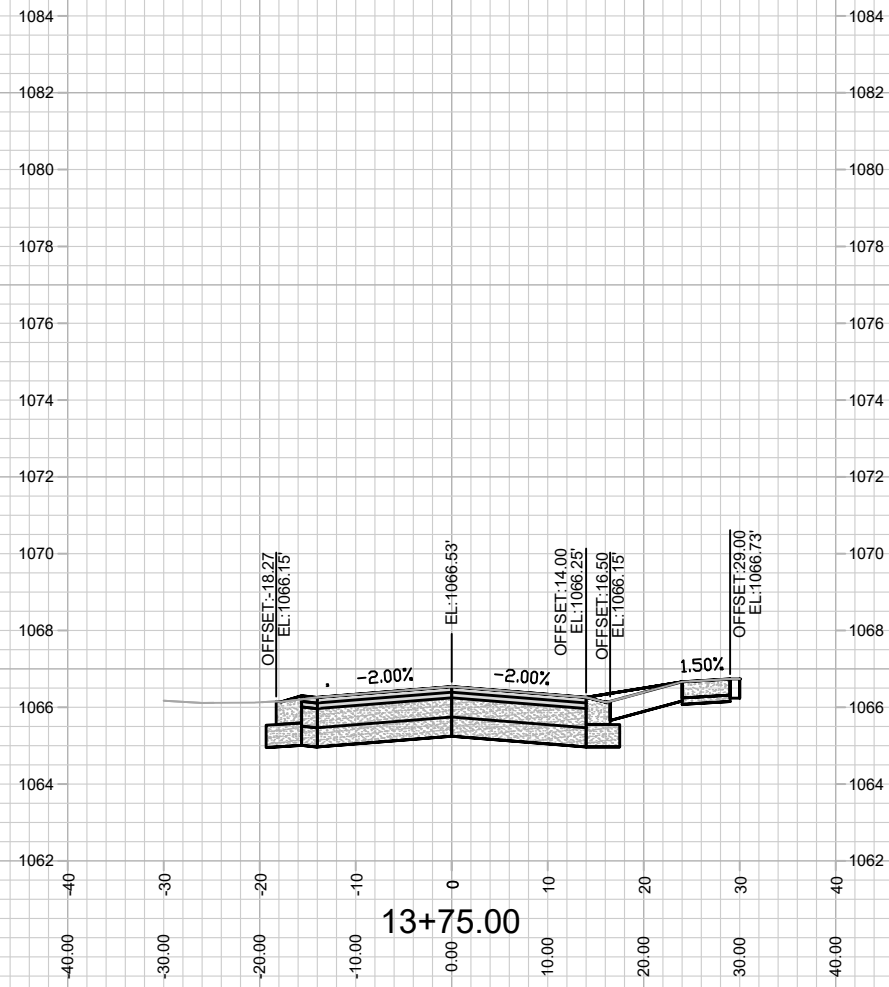
MADISON, WI

13852

CONTRACT NO:

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13852
X-16

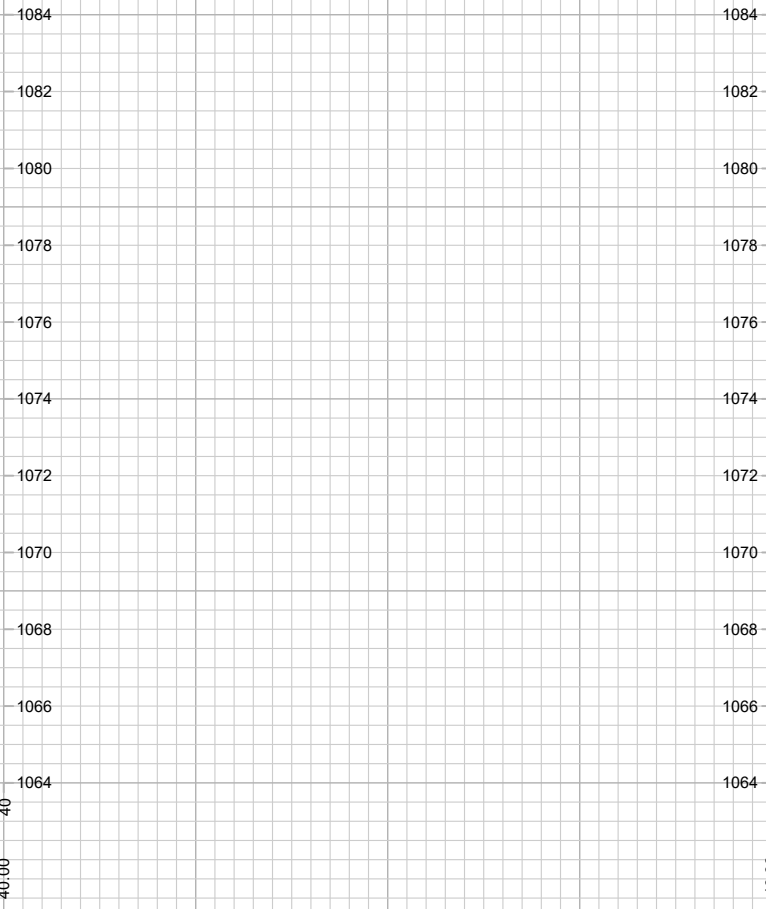
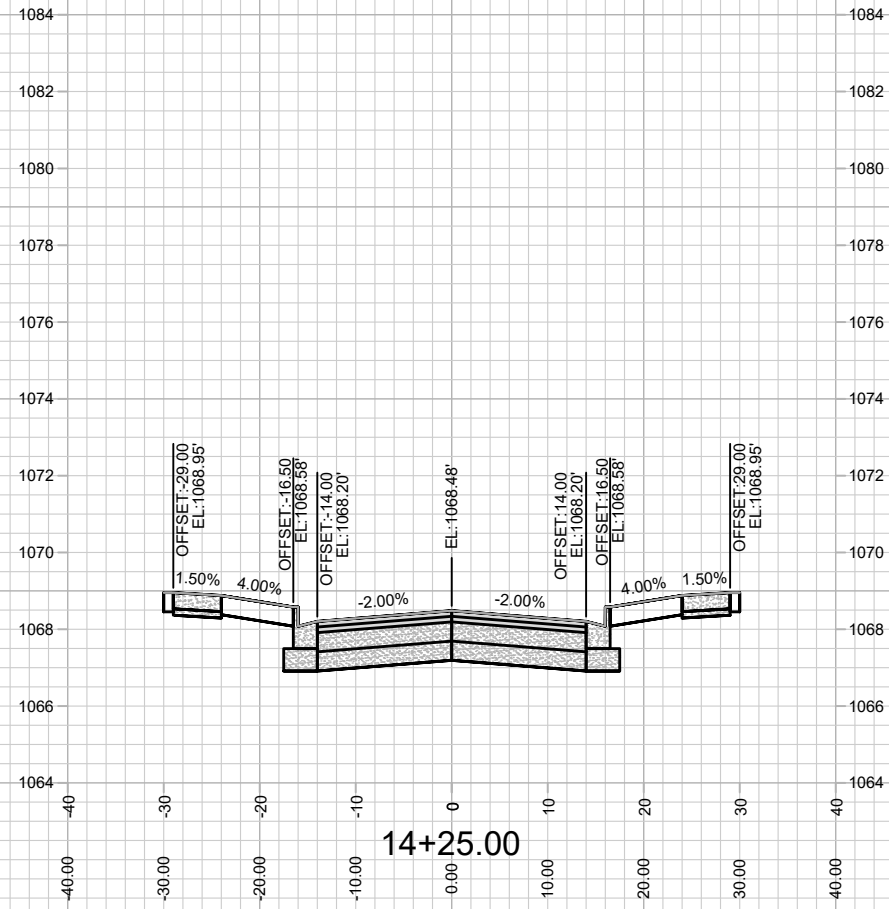
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SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

13852
MADISON, WI
9090

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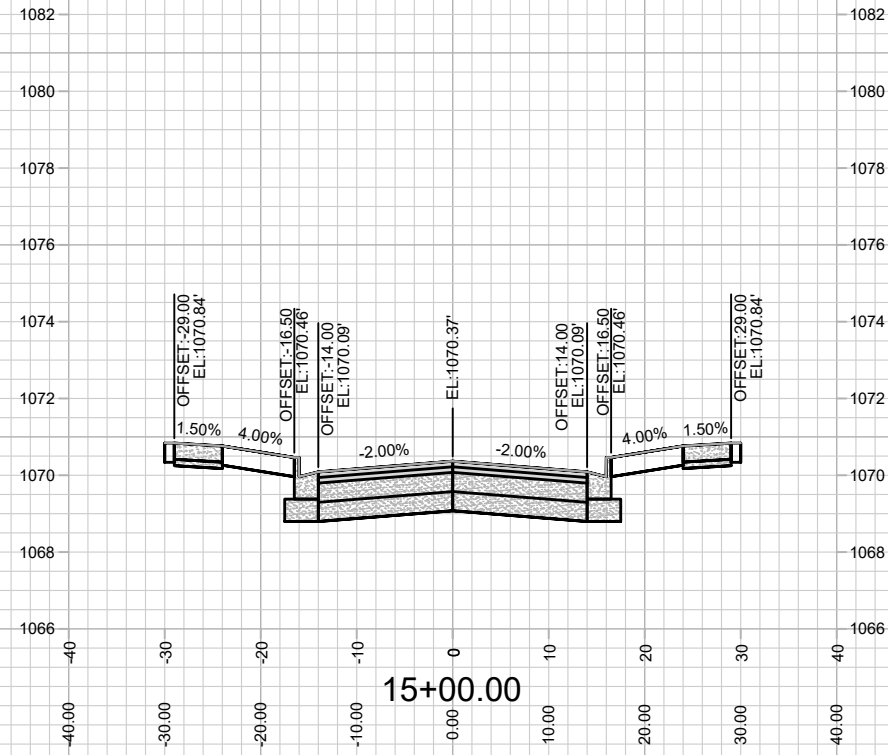
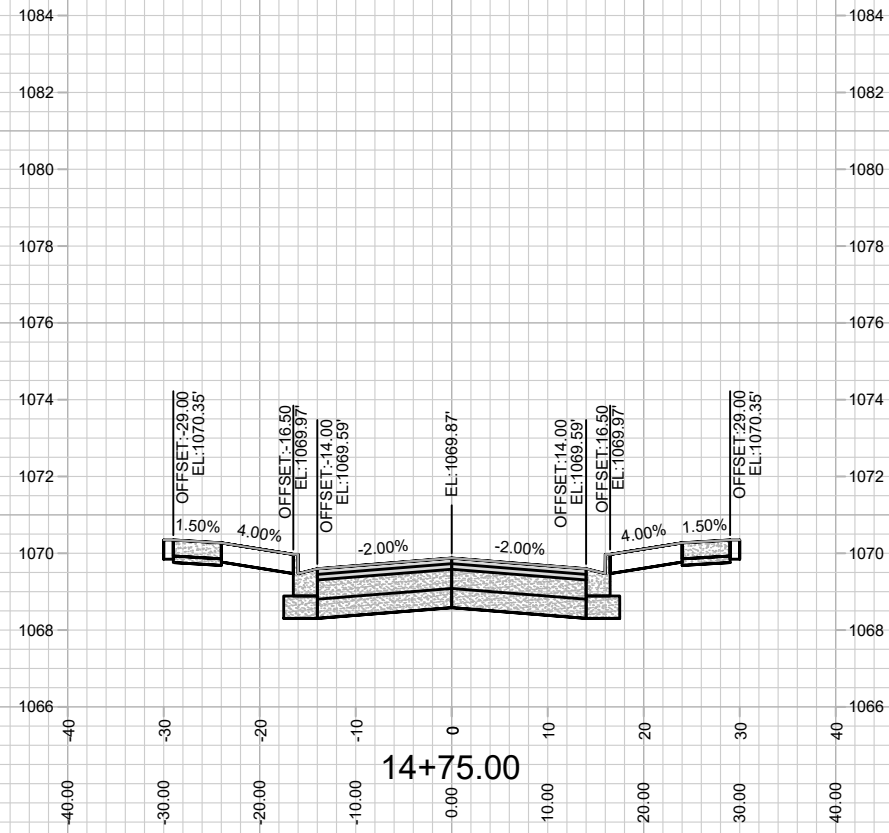
13852
X-17

BIRCH BLOSSOM ROAD - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

13852
MADISON, WI
9090
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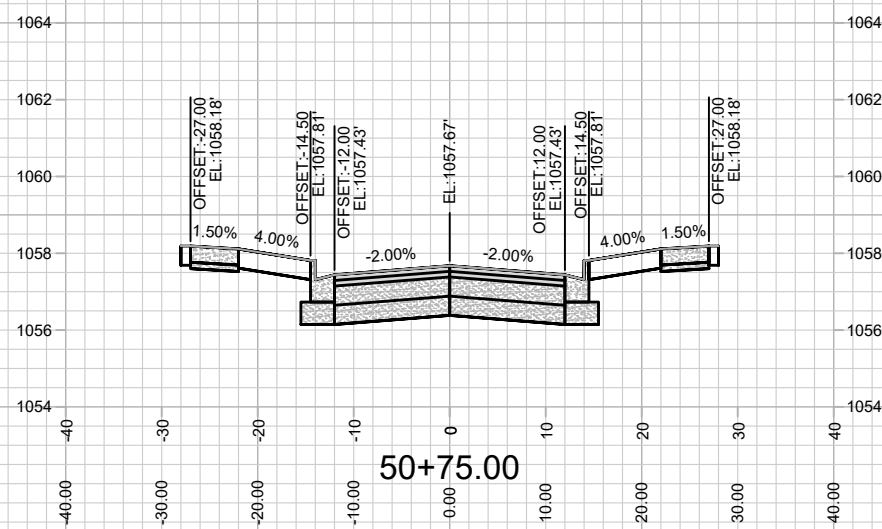
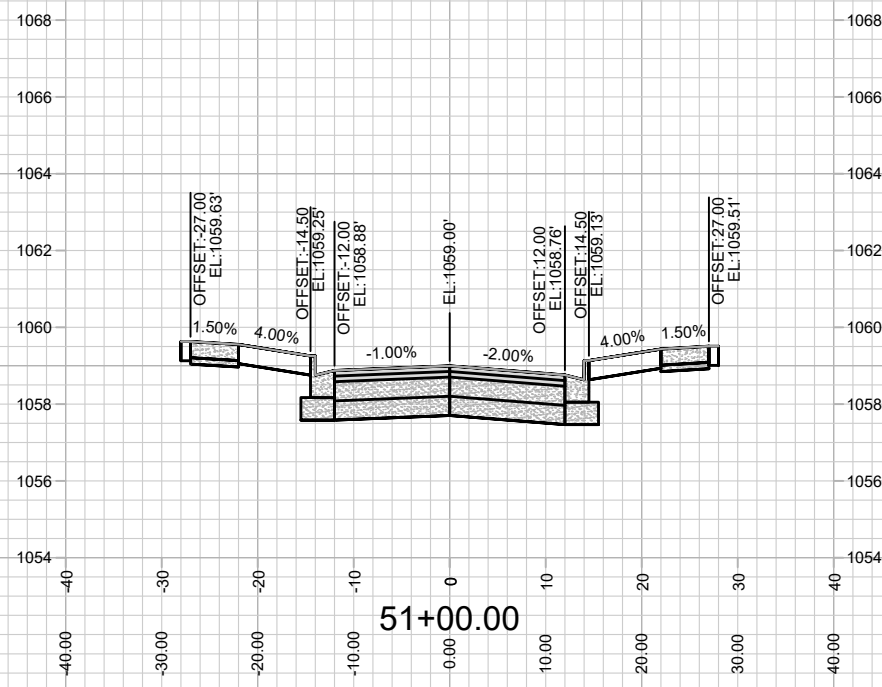
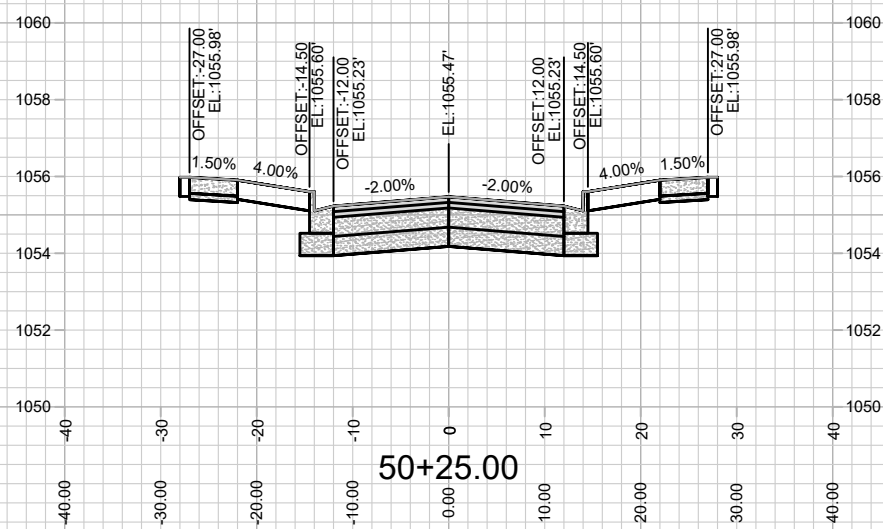
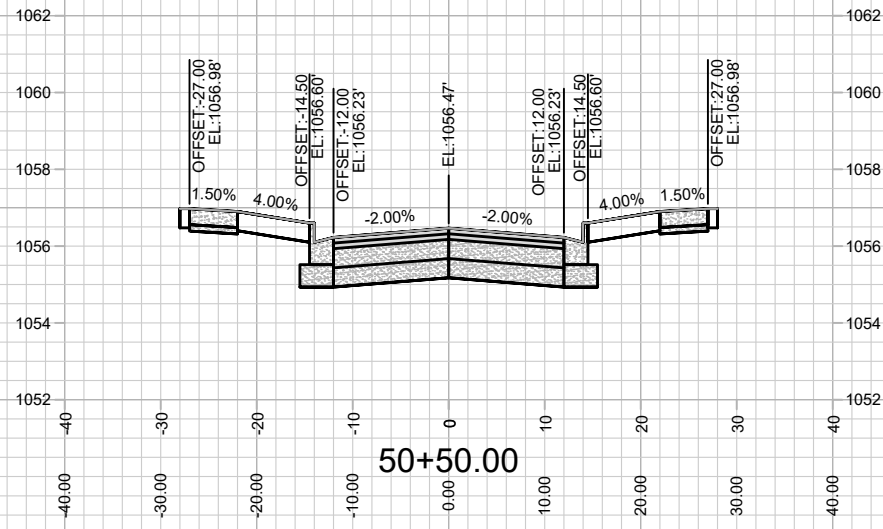
BIRCH BLOSSOM ROAD - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

13852
MADISON, WI
9090

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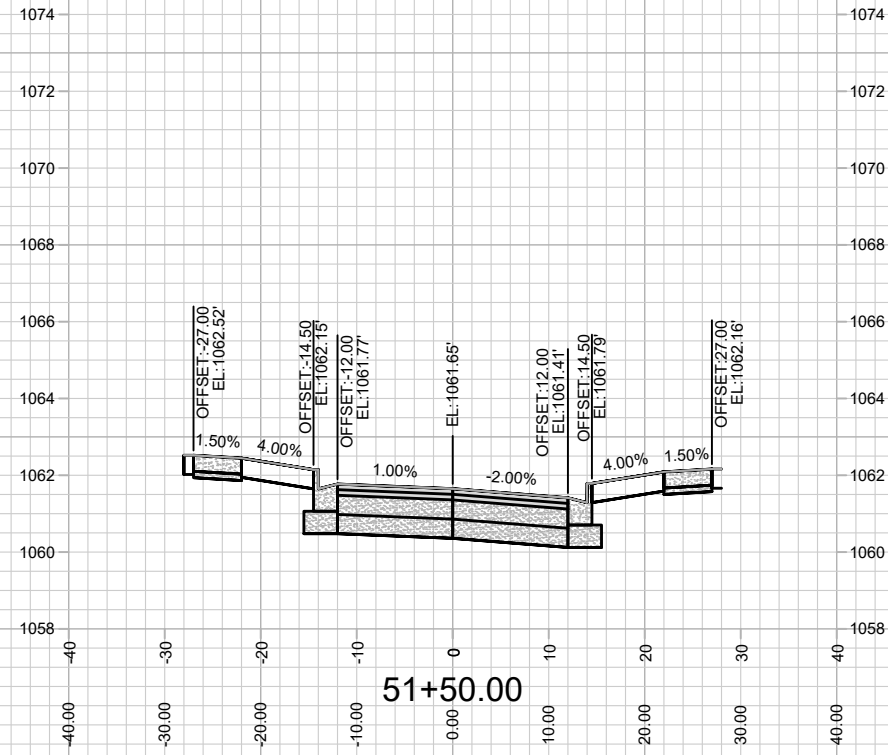
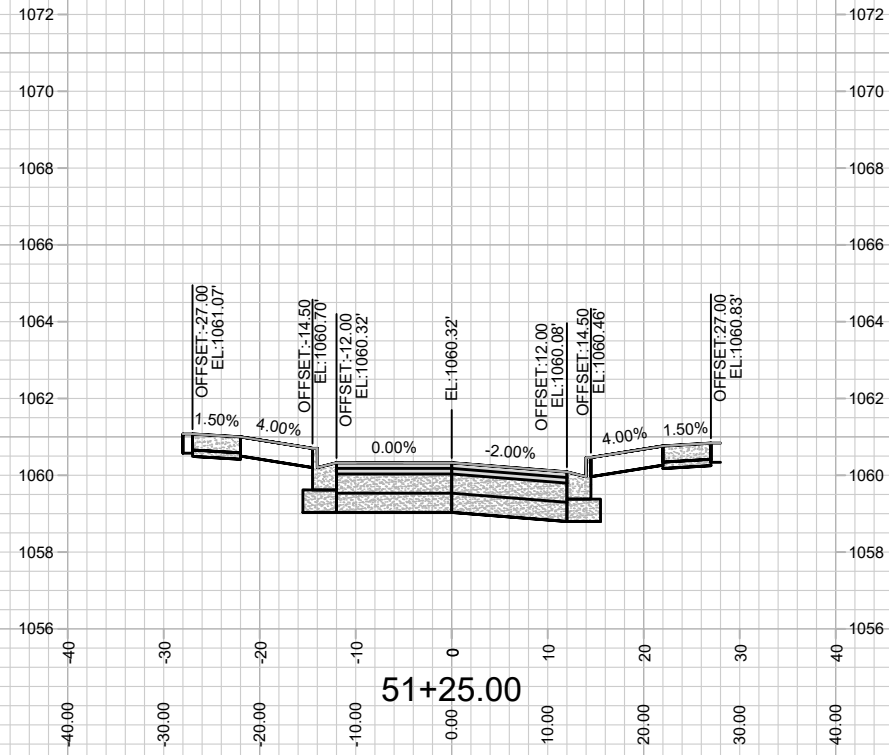
13852
 MADISON, WI
 9090
 CONTRACT NO:

TWIN TREASURE DRIVE - CROSS SECTION
 SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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 X-19

Designed By: LMC
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 Date: 2/25/2022 7:02 AM
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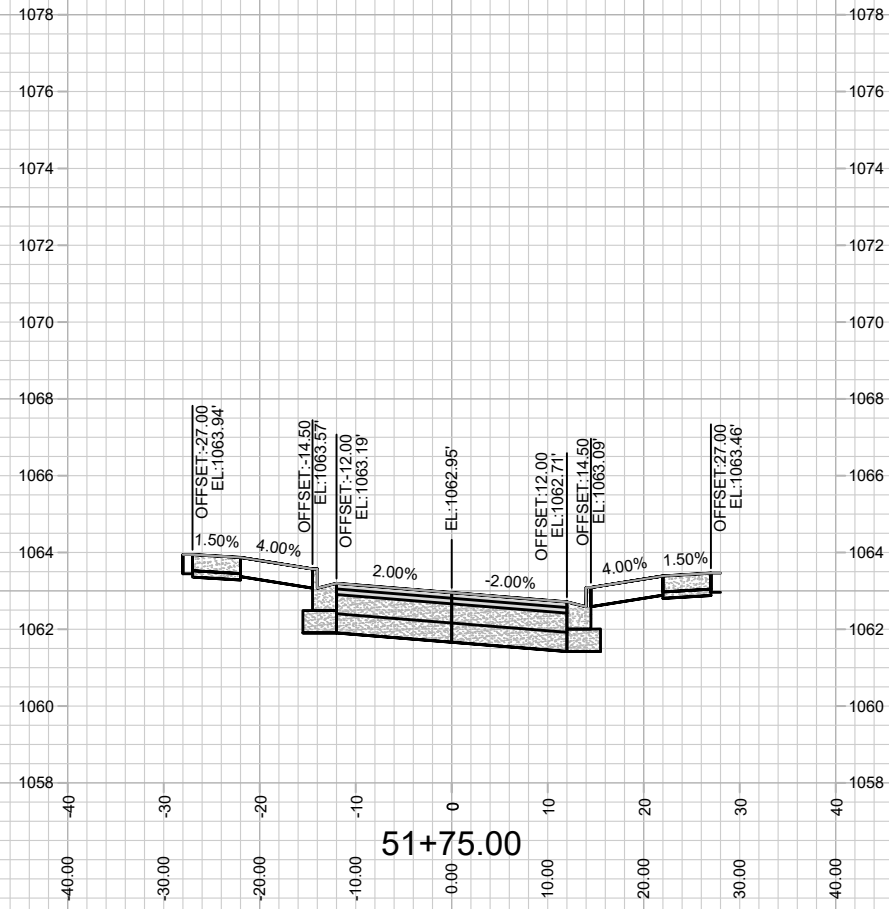
TWIN TREASURE DRIVE - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

13852
MADISON, WI

CONTRACT NO: 9090

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X-21

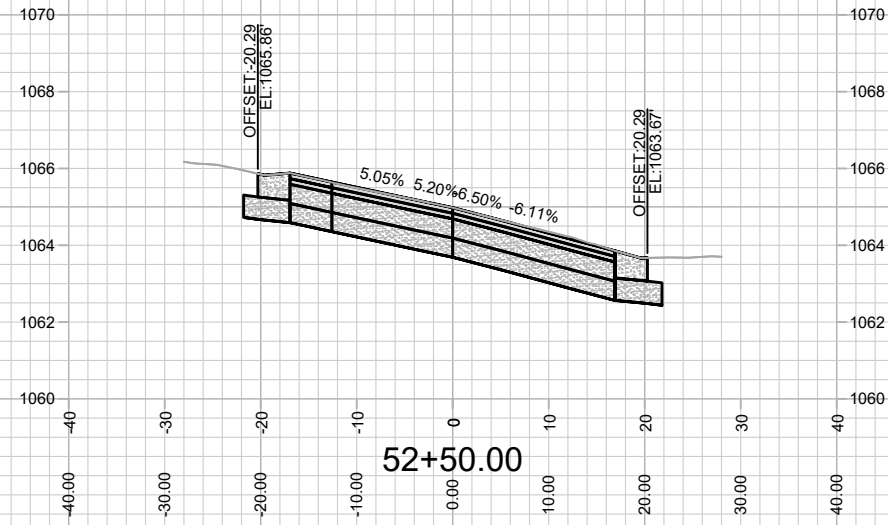
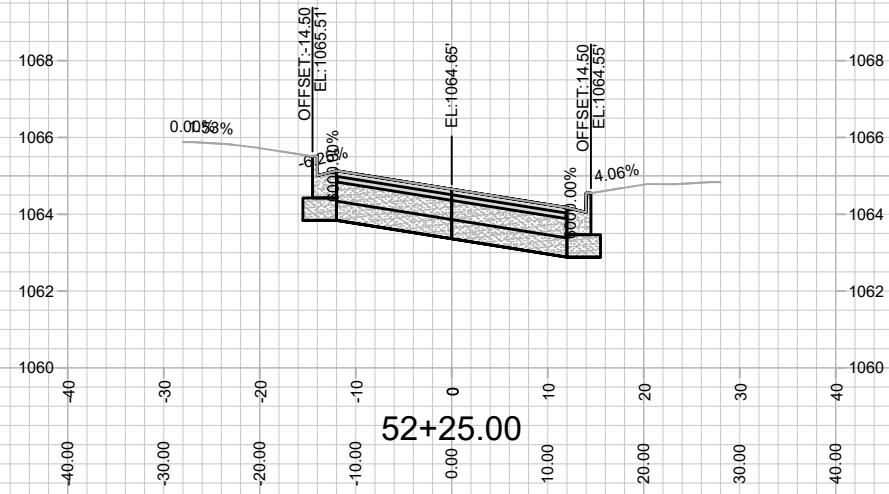
TWIN TREASURE DRIVE - CROSS SECTION
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

13852
MADISON, WI
9090

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X-22

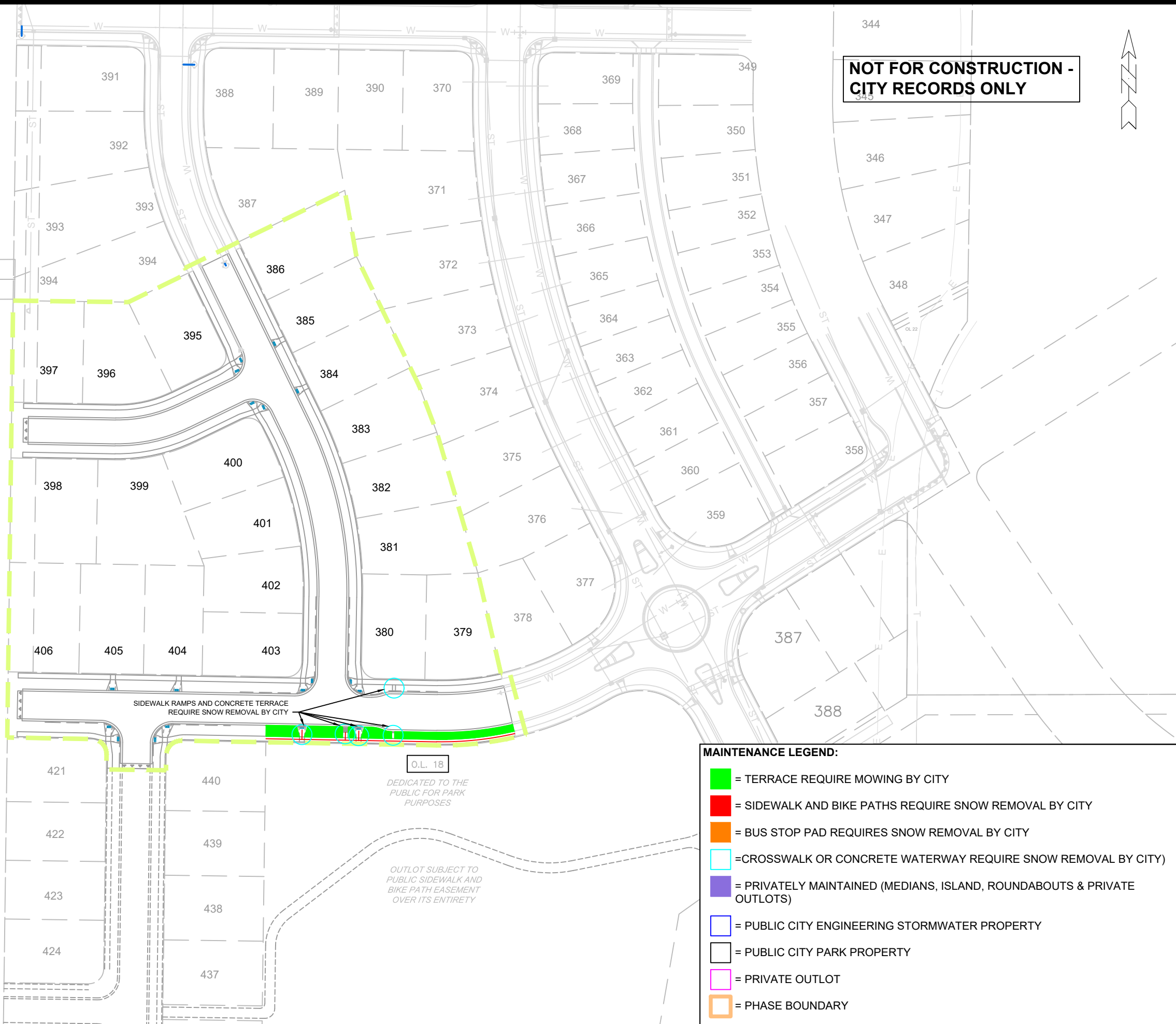
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SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5

13852
MADISON, WI
9090

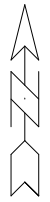
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**NOT FOR CONSTRUCTION -
CITY RECORDS ONLY**



- MAINTENANCE LEGEND:**
- = TERRACE REQUIRE MOWING BY CITY
 - = SIDEWALK AND BIKE PATHS REQUIRE SNOW REMOVAL BY CITY
 - = BUS STOP PAD REQUIRES SNOW REMOVAL BY CITY
 - = CROSSWALK OR CONCRETE WATERWAY REQUIRE SNOW REMOVAL BY CITY)
 - = PRIVATELY MAINTAINED (MEDIANS, ISLAND, ROUNDABOUTS & PRIVATE OUTLOTS)
 - = PUBLIC CITY ENGINEERING STORMWATER PROPERTY
 - = PUBLIC CITY PARK PROPERTY
 - = PRIVATE OUTLOT
 - = PHASE BOUNDARY

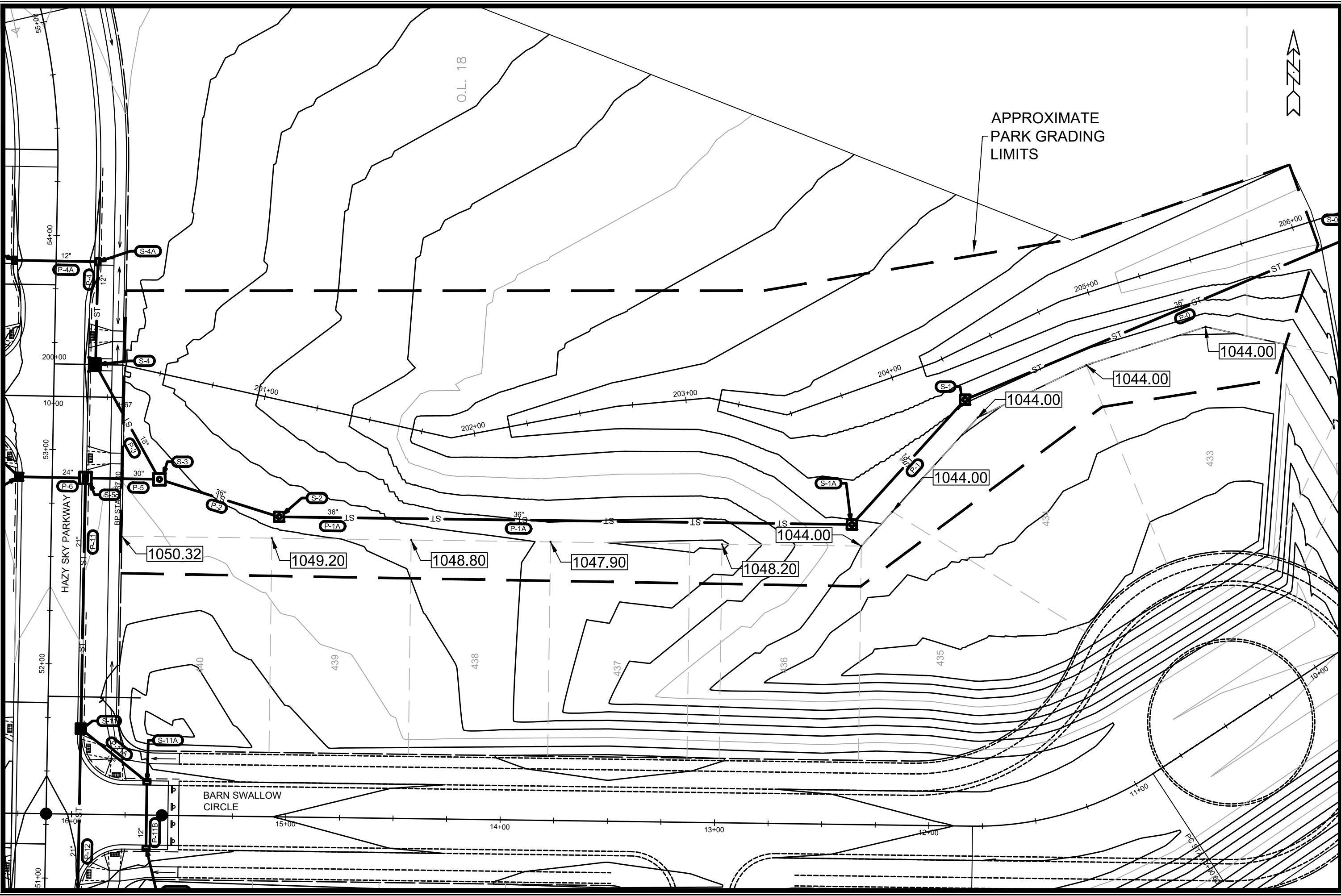
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13852
MADISON, WI
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
CONTRACT NO: 9090
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MADISON, WI
CONTRACT NO: 9090

PARK GRADING
SOUTHERN ADDITION TO BIRCHWOOD POINT PHASE 5
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GR-1