

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

LOWER BADGER MILL CREEK FLOOD MITIGATION

PUBLIC IMPROVEMENT PROJECT
APPROVED

APPROVED DATE

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

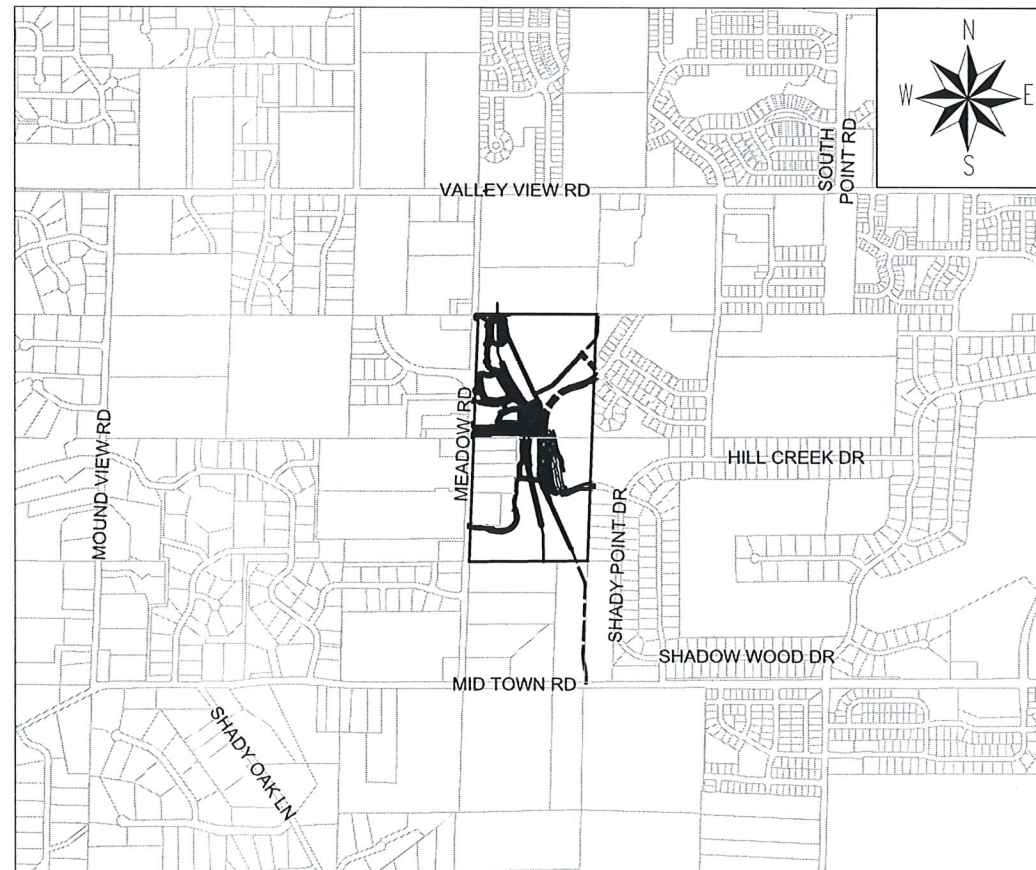
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

[Signature] 2/10/23
City Engineer Date

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CITY PROJECT NO. 11063
CONTRACT NO. 8875



DIGGERS HOTLINE
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ROADWAY DESIGN BY:

WISCONSIN PROFESSIONAL ENGINEER
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E36605
MADISON, WI
2/7/23

STORMWATER DESIGN BY:

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MADISON, WI
Justin Gutoski 2-3-23

STRUCTURAL DESIGN BY:

WISCONSIN PROFESSIONAL ENGINEER
KEITH R. BEHREND
E-42073
MADISON, WI
Keith Behrend 2-3-2023

SANITARY SEWER DESIGN BY:

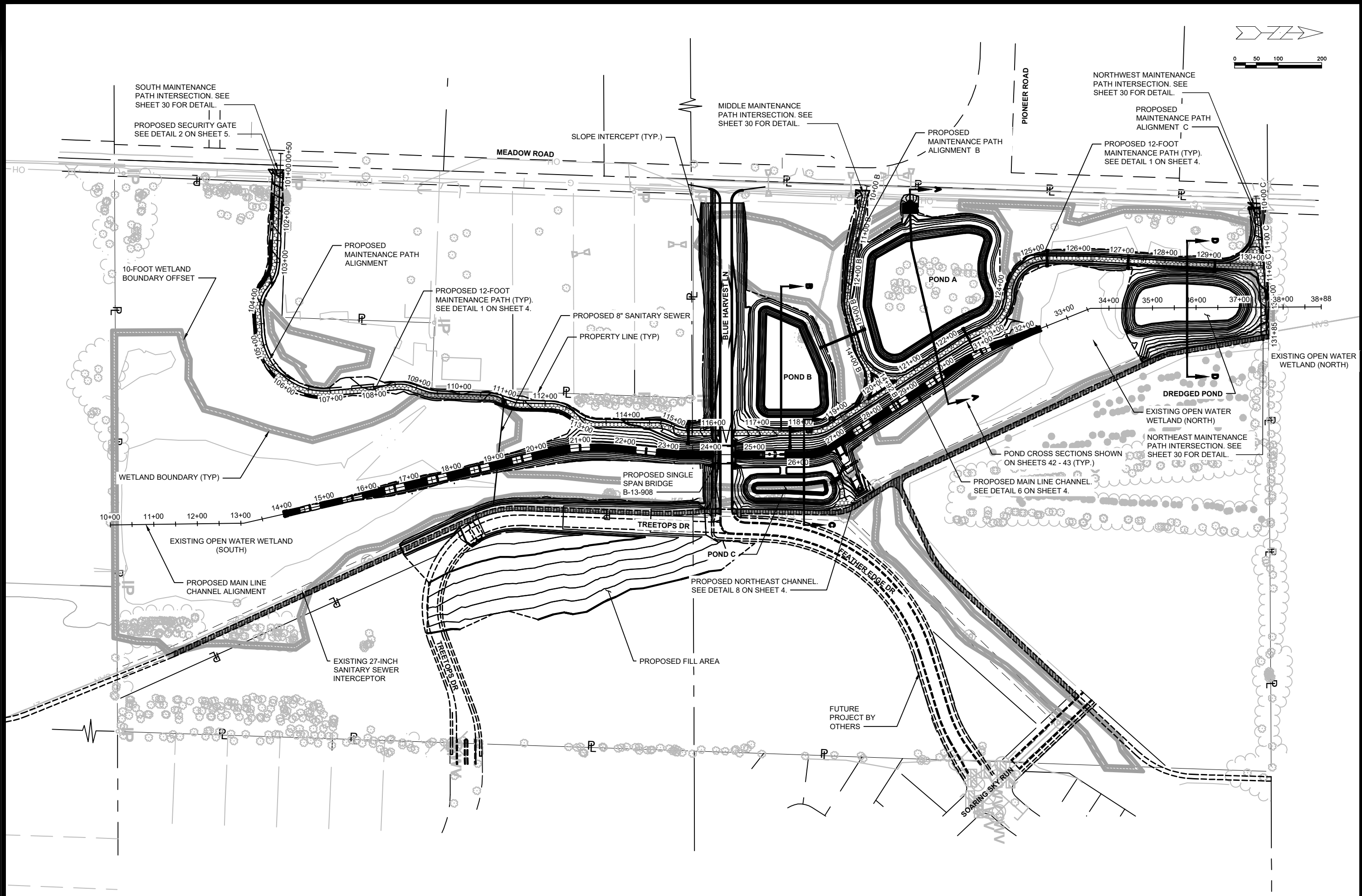
WISCONSIN PROFESSIONAL ENGINEER
MATTHEW A. ALLIE
E-44986
MADISON, WI
Matthew Allie 2/9/23

PLOT SCALE: 1" = 1'

PLOT NAME: ----

REV. DATE: 2/9/2023 2:35 PM

ORIGINATOR: CITY_OF_MADISON

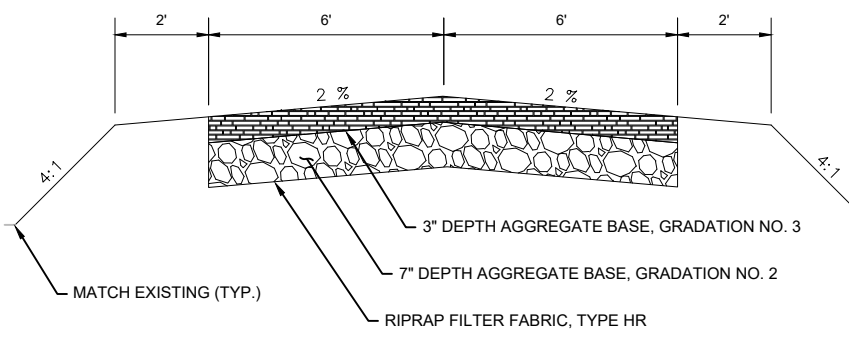


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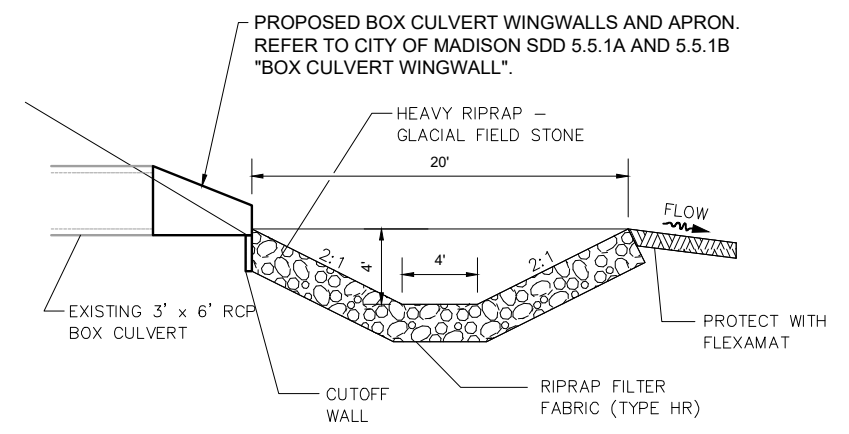
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 CITY OF MADISON
 CONTRACT NO.: 9030

PROJECT OVERVIEW
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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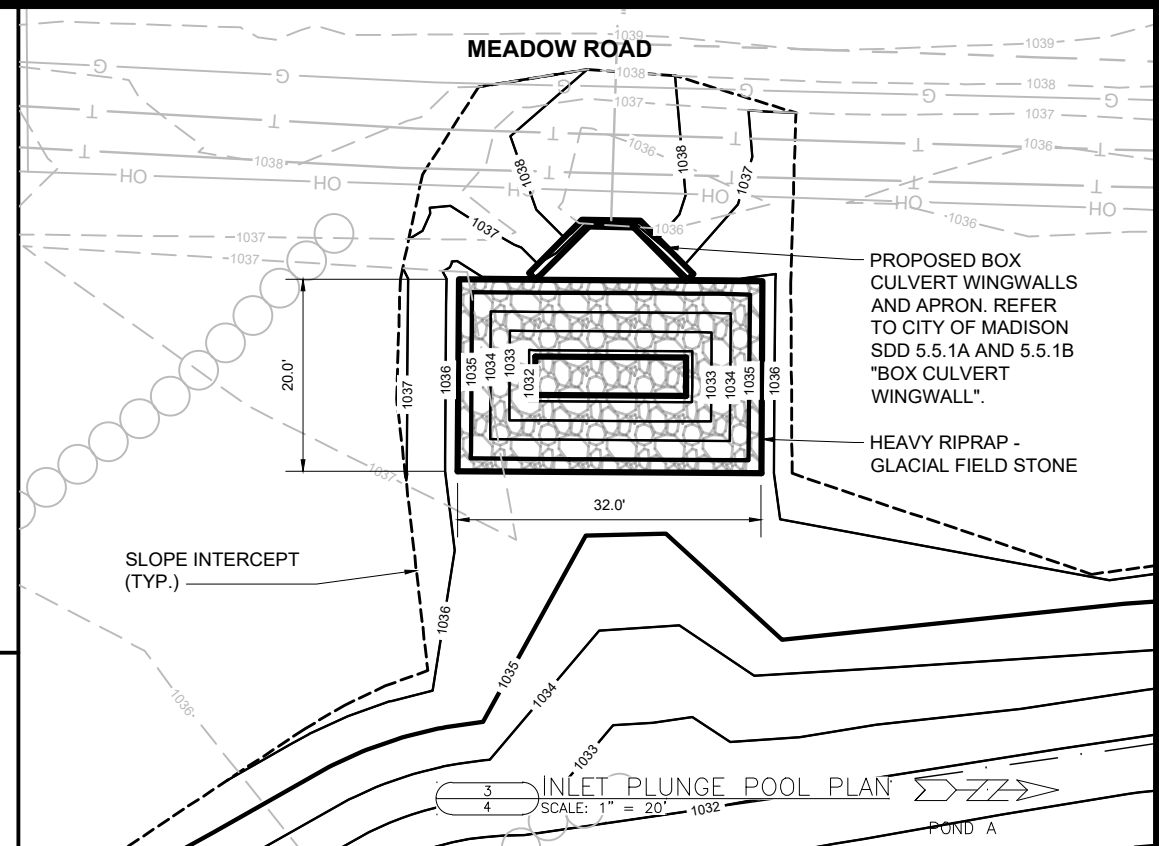




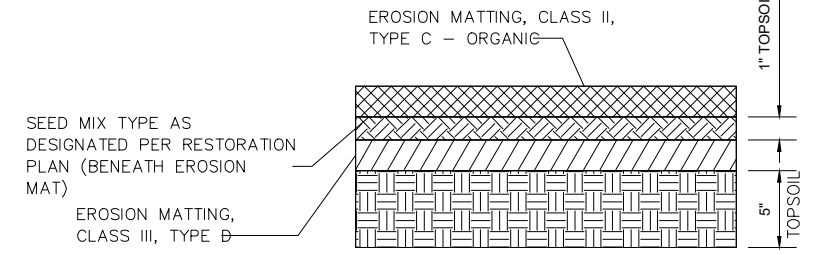
1 TYPICAL MAINTENANCE PATH DETAIL
4 NO SCALE



2 INLET PLUNGE POOL
4 NO SCALE

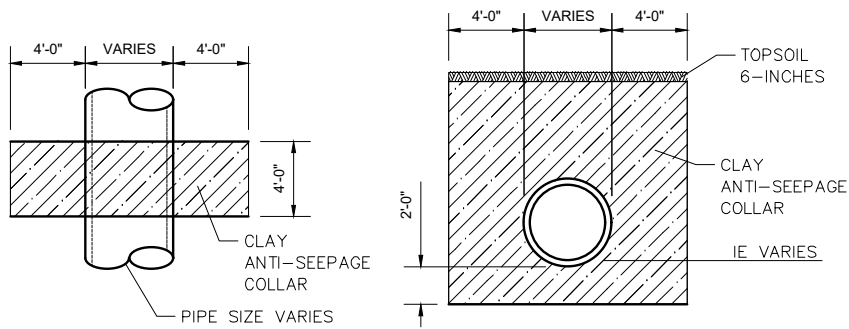


3 INLET PLUNGE POOL PLAN
4 SCALE: 1" = 20'

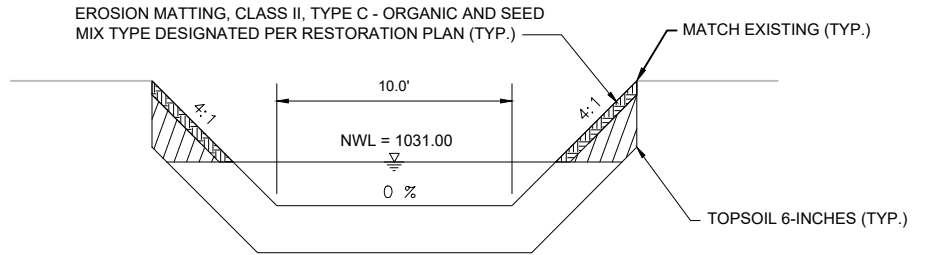


- NOTE:
1. TOPSOIL CAN BE EXISTING TOPSOIL PARTIALLY HAUL-ED-IN AND PARTIALLY EXISTING.
 2. SEE EROSION CONTROL AND RESTORATION PLAN FOR LOCATIONS AND USE.
 3. ALL MATTING SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS.

4 TURF REINFORCEMENT MAT (TRM) SYSTEM
4 NO SCALE



5 CLAY ANTI-SEEPAGE COLLAR
4 NO SCALE

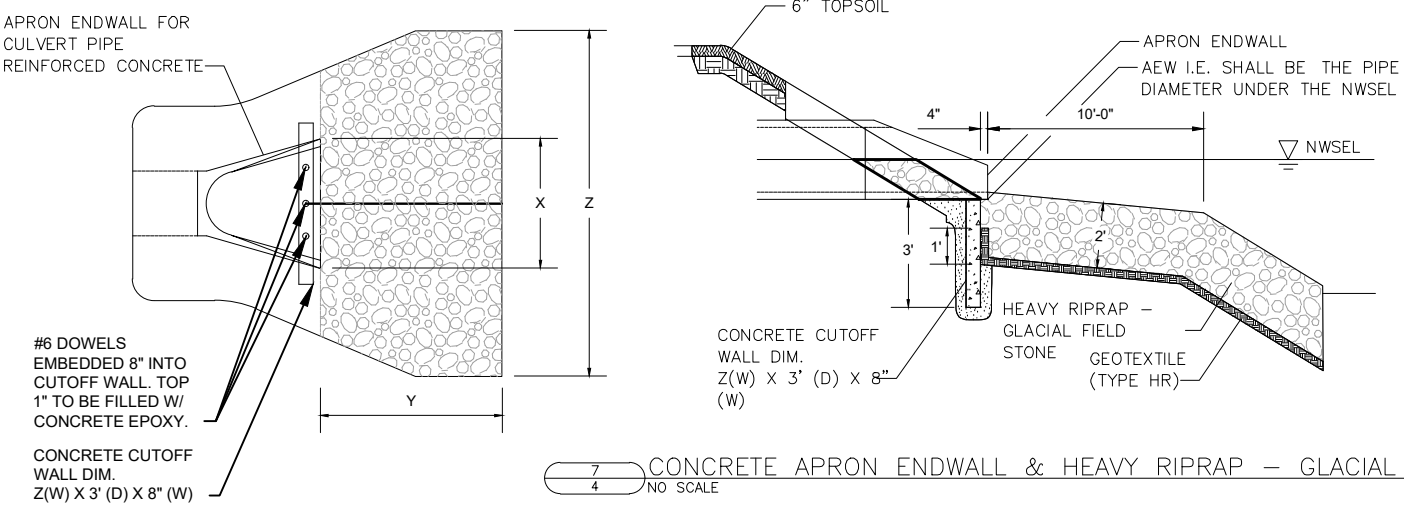


NOTE: CONTRACTOR SHALL RESTORE CHANNEL TO THE WATER LEVEL AT TIME OF RESTORATION IF BELOW ELEVATION 1031.00

6 TYPICAL MAIN LINE CHANNEL DETAIL
4 NO SCALE

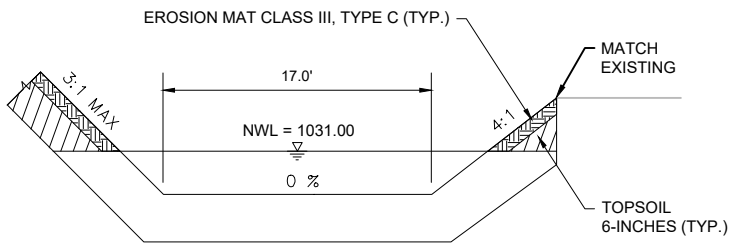
D.I.A. (IN)	X (IN)	Y (IN)	Z (IN)	APPROX. WT. (TONS)
12	24	48	48	1.78
15	30	60	60	2.64
18	36	60	60	2.78

RIPRAP PLACEMENT & THICKNESS IN ACCORDANCE WITH ARTICLE 212.3



7 CONCRETE APRON ENDWALL & HEAVY RIPRAP - GLACIAL FIELD STONE
4 NO SCALE

- NOTES:
- 1) CITY OF MADISON STANDARD SPECIFICATIONS SHALL APPLY TO ALL INSTALLATIONS.
 - 2) PIPES SHALL HAVE JOINT TIES PER STANDARD DETAIL DRAWINGS 5.4.6 & SECTION 504.2 (L).
 - 3) WHERE RIPRAP IS CALLED FOR, PIPES 36" OR GREATER SHALL HAVE 50% OF THE RIPRAP PAD PAVED WITH A SLURRY GROUT MIX ON AN UNEVEN RIPRAP SURFACE. SLURRY GROUT SHALL BE TYPE B SLURRY PER SECTION 300 OF THE STANDARD SPECIFICATIONS.
 - 4) TWIN APRON INSTALLATION SHALL BE GOVERNED BY THE OUTSIDE DIMENSIONS OF A SINGLE PIPE.
 - 5) CONCRETE CUTOFF FOR RCP REQUIRED ONLY WHEN CALLED FOR ON PLANS. WHERE CONCRETE CUTOFF WALL IF CALLED FOR IT SHALL BE INCLUDED IN THE ENDWALL COST.



NOTE: CONTRACTOR SHALL RESTORE CHANNEL TO THE WATER LEVEL AT TIME OF RESTORATION IF BELOW ELEVATION 1031.00

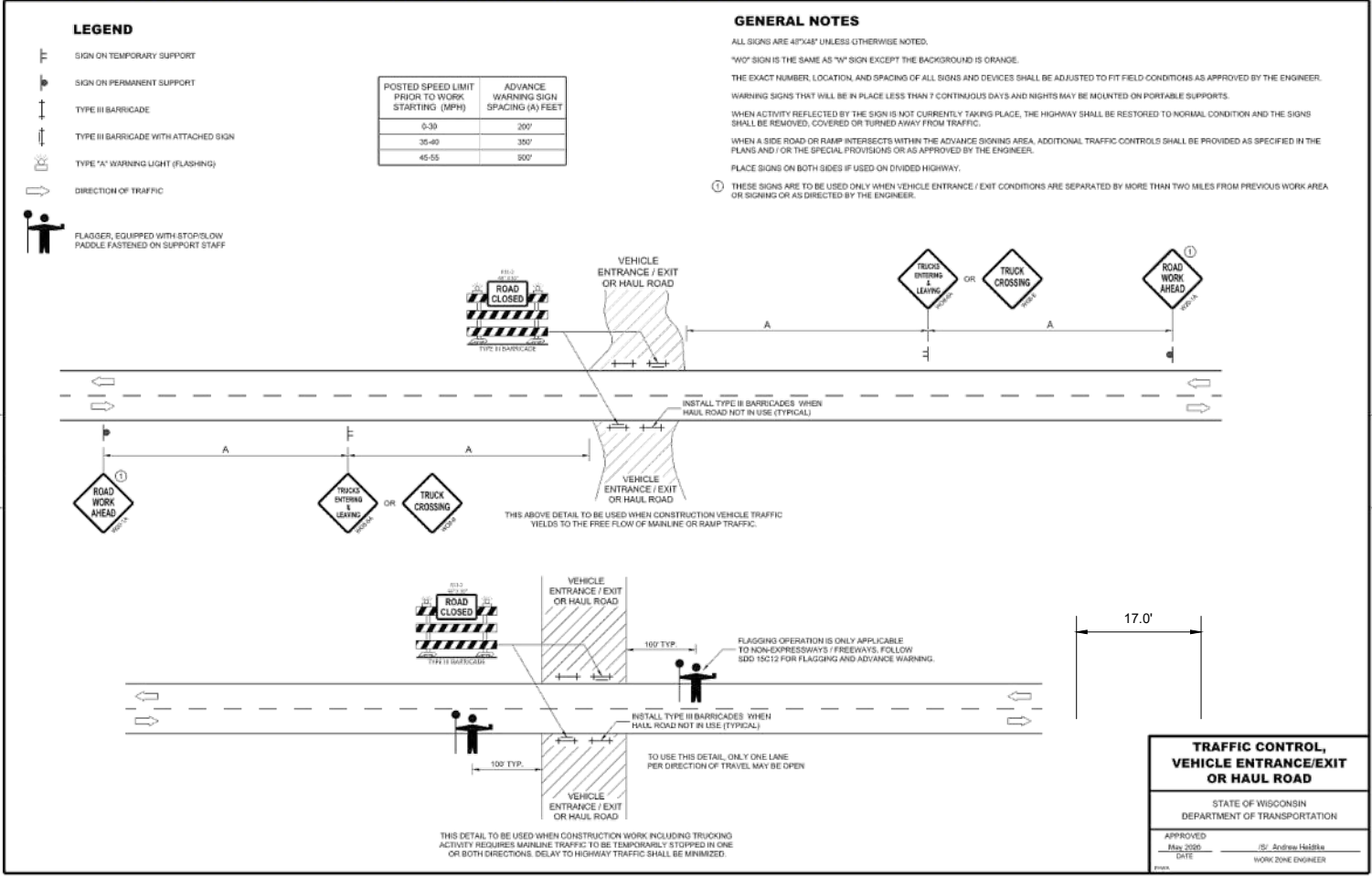
8 TYPICAL NORTHEAST CHANNEL DETAIL
4 NO SCALE

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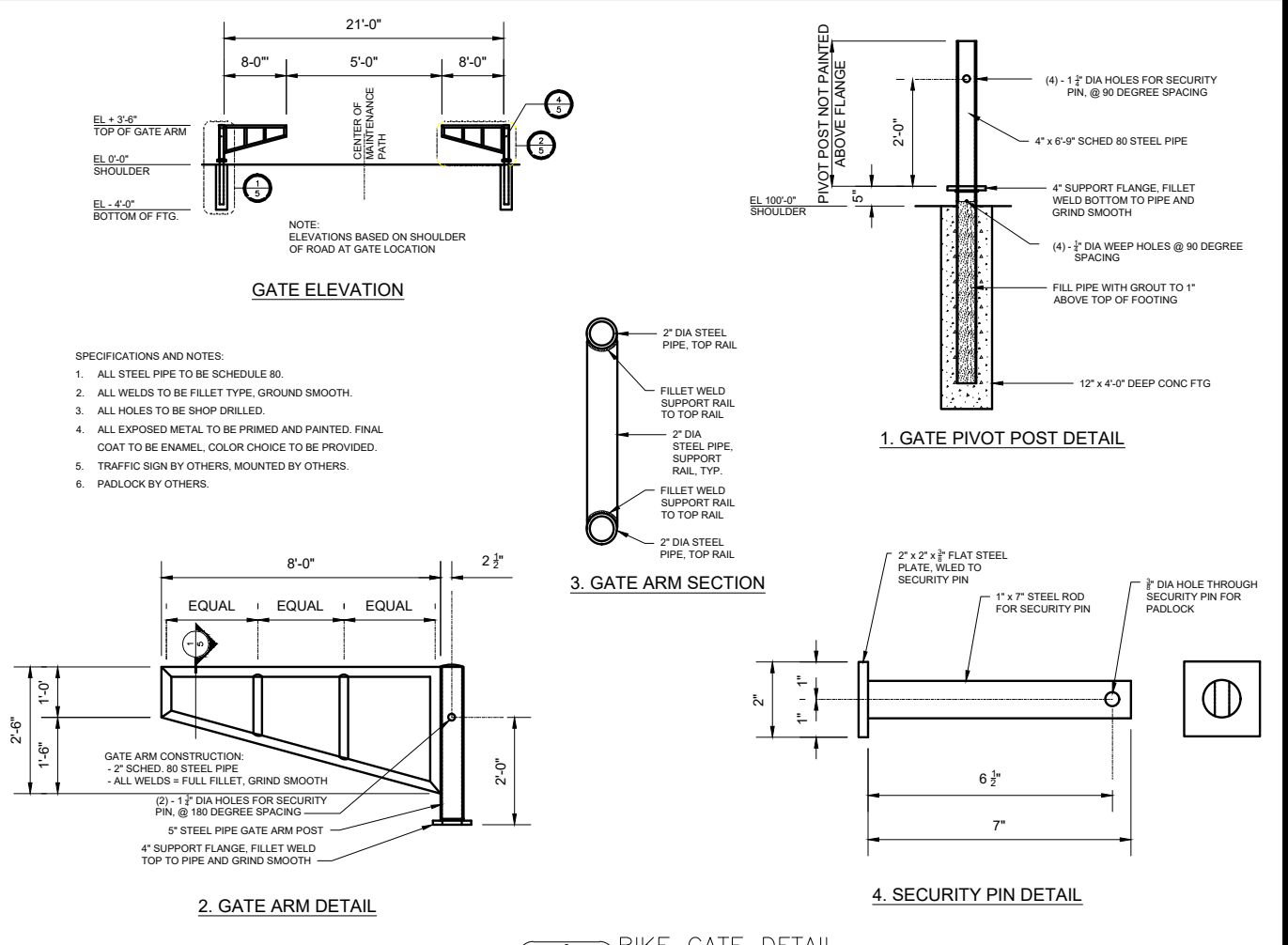
CONSTRUCTION DETAILS
LOWER BADGER MILL CREEK FLOOD MITIGATION
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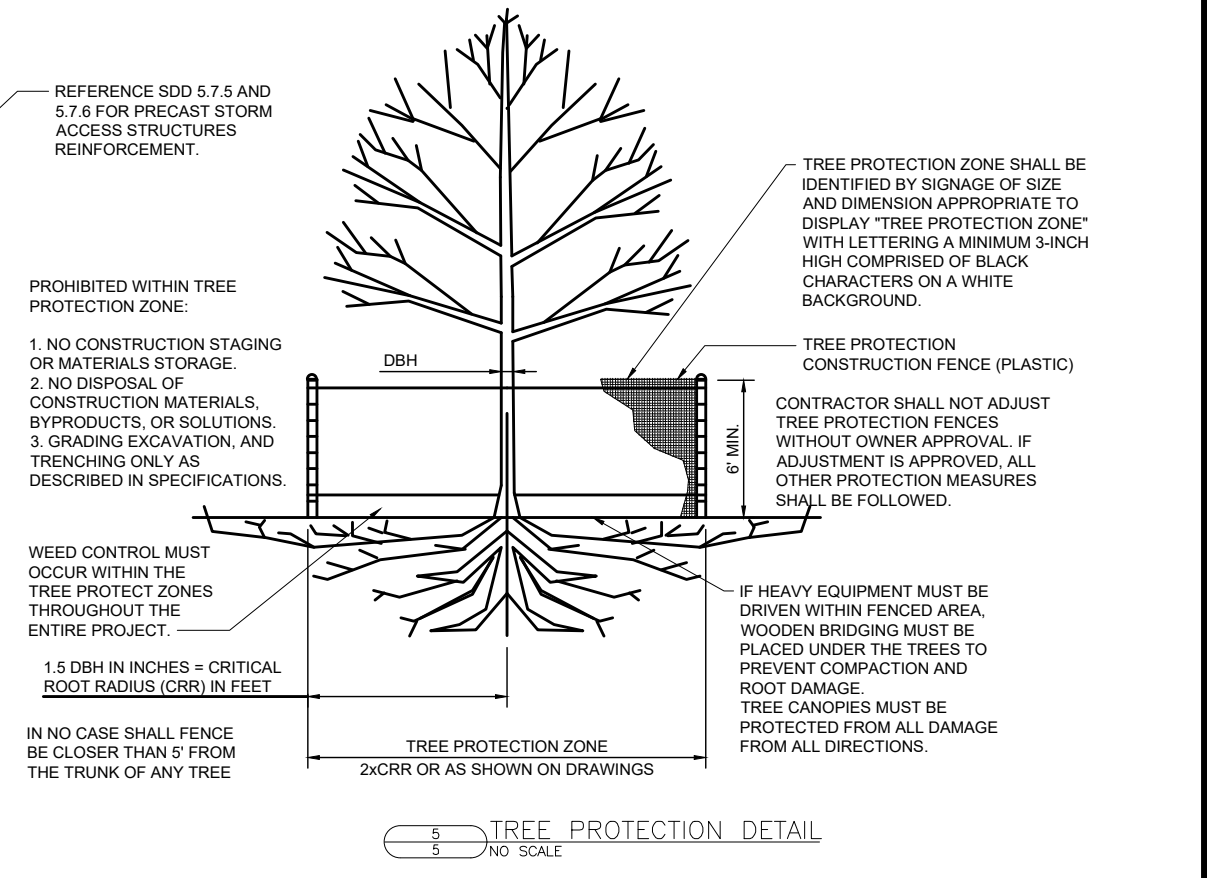
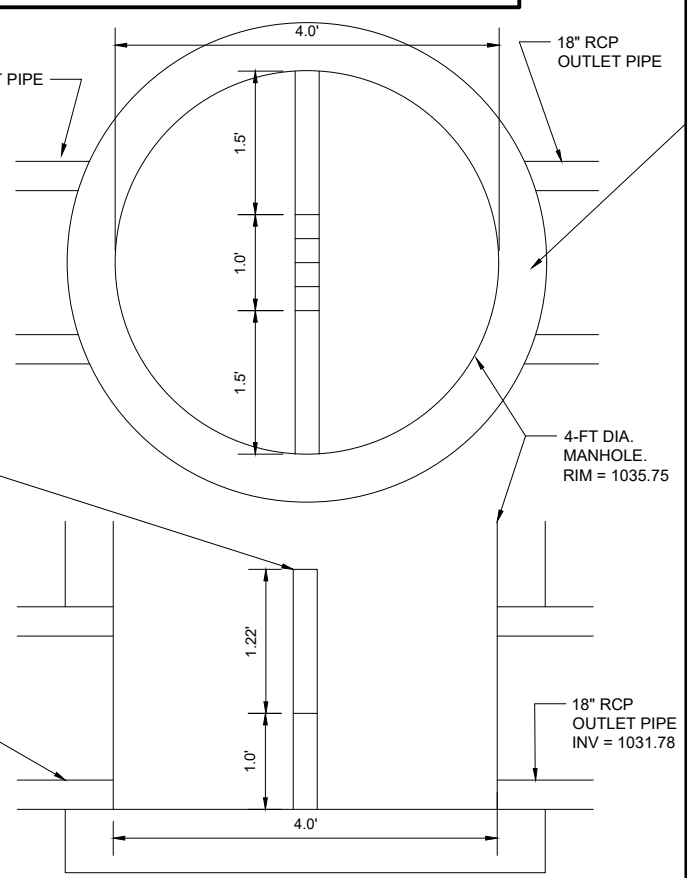
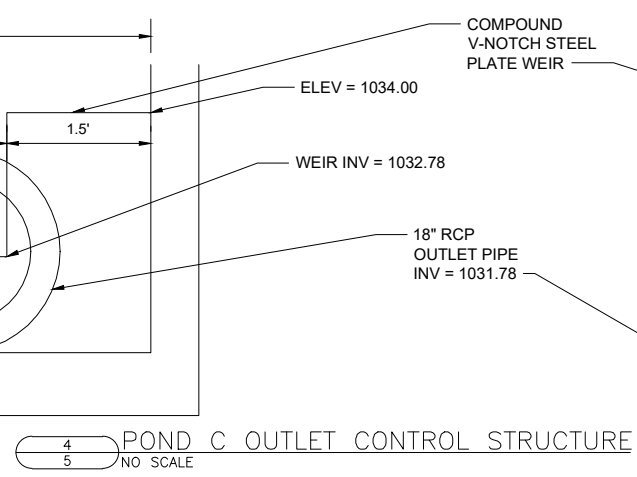
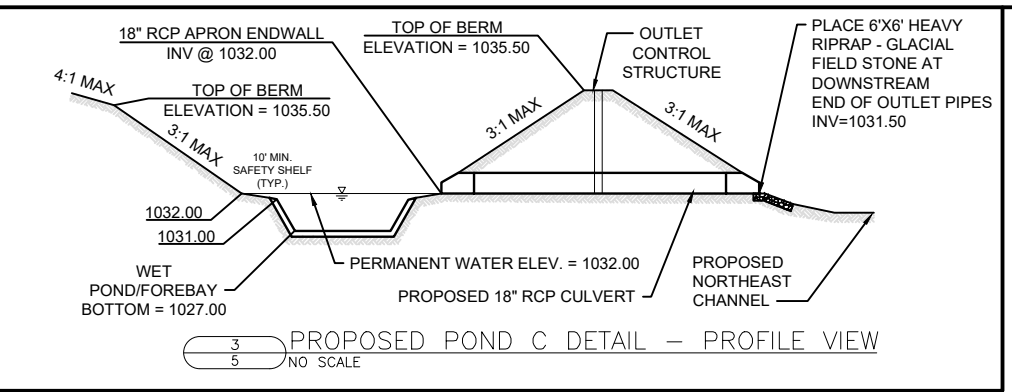
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SCALE: NONE	

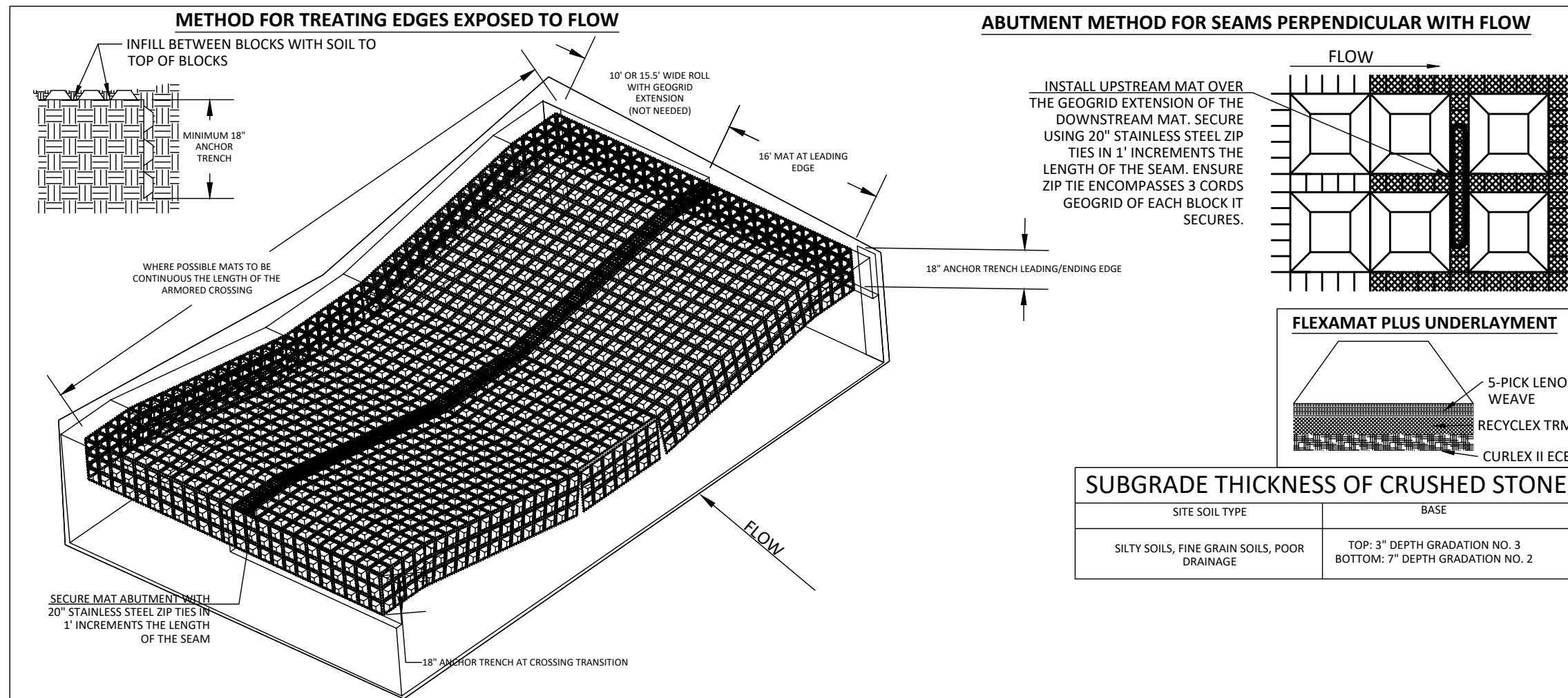


1 TRAFFIC CONTROL DETAIL
 5 NO SCALE



2 BIKE GATE DETAIL
 5 NO SCALE





FLEXAMAT PLUS - LOW WATER CROSSING ARMORING

CONSTRUCTION NOTES:

1. AN ENGINEER OR MANUFACTURERS REPRESENTATIVE SHALL BE ONSITE FOR THE START OF THE INSTALLATION.
2. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND.
3. FLEXAMAT ROLLS ARE AVAILABLE IN STANDARD WIDTHS OF 16' FOR LOW WATER CROSSINGS. FOR CROSSINGS WIDER THAN THE 16' INCLUDING ANCHOR TRENCHES, INSTALL A 10' OR A 15.5' WIDE MAT WITH A GEOGRID EXTENSION AND UNDERLAYMENT EXTENSION. COMPLETE THE REMAINDER OF THE CHANNEL WIDTH WITH AN 8', 10', 12' OR 16' MAT. IT IS THE MANUFACTURERS RECOMMENDATION TO UTILIZE THE WIDEST MATS POSSIBLE. THE PARALLEL ABUTMENT SEAM SHALL BE IN THE CENTER OF THE CROSSING TO MINIMIZE DRIVING ON ABUTMENT SEAM.
4. FLEXAMAT ROLLS SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF THE CROSSING.
 - 4.1. WHEN CROSSING EXCEEDS 100' IN WIDTH OR WHEN SITE CONDITIONS PREVENT THE USE OF A CONTINUOUS MAT, INSTALL SHORTER ROLLS AND ABUT PARALLEL ABUTMENT SEAMS TIGHTLY. SECURE PARALLEL ABUTMENT SEAMS WITH STAINLESS STEEL ZIP TIES IN 1' INCREMENTS WITH STAINLESS STEEL ZIP TIES. ZIP TIES SHALL ENCOMPASS 3 CORDS OF GEOGRID ON EACH MAT.
 - 4.2. WHEN INSTALLING SHORTER ROLLS, THE PARALLEL ABUTMENT SEAMS SHOULD NOT BE IN THE CHANNEL BOTTOM. WHENEVER POSSIBLE PARALLEL SEAMS SHALL BE ABOVE THE THE NORMAL LOW WATER ELEVATION.
5. AT LEADING AND ENDING EDGES PERPENDICULAR TO THE CHANNEL EMBED THE FLEXAMAT INTO A 18" VERTICAL ANCHOR TRENCH.
 - 5.1. AT THE CROSSING TRANSITION TO THE ACCESS DRIVE, TRANSITION THE FLEXAMAT TO THE EXISTING GRADE. IF CONCENTRATED FLOW IS ANTICIPATED EMBED FLEXAMAT INTO A 18" VERTICAL ANCHOR TRENCH.
6. FOR CROSSINGS WIDER THAN 16' INSTALL THE DOWNSTREAM MAT WITH THE GEOGRID AND UNDERLAYMENT EXTENSIONS FIRST. ENSURE EXTENSIONS ARE LAYING FLAT PRIOR TO PLACEMENT OF THE UPSTREAM MAT.
 - 6.1. INSTALL THE UPSTREAM MAT OVER THE DOWNSTREAM MAT EXTENSIONS. INSTALL STAINLESS STEEL ZIP TIES IN 1' INCREMENTS THE LENGTH OF THE LONGITUDINAL SEAM. ZIP TIES SHALL ENCOMPASS 3 CORDS OF GEOGRID ON EACH MAT.

MOTZ ENTERPRISES, INC.

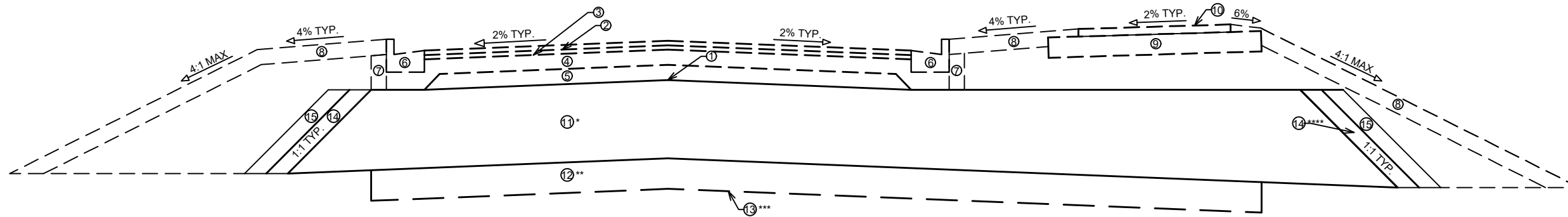
Flexamat
(513)772-6689
Info@Flexamat.com
Flexamat.com



REV - 2

SUBGRADE THICKNESS OF CRUSHED STONE	
SITE SOIL TYPE	BASE
SILTY SOILS, FINE GRAIN SOILS, POOR DRAINAGE	TOP: 3" DEPTH GRADATION NO. 3 BOTTOM: 7" DEPTH GRADATION NO. 2

1 OVERFLOW ARMORING DETAIL
6 NO SCALE



SPECIAL NOTES:

- TYPICAL SECTION NOT TO SCALE

- CONSTRUCT BLUE HARVEST LANE TO SUBGRADE BETWEEN STA 100+13 TO STA 107+25. BASE COURSE, CURB & GUTTER, AND PAVEMENT TO BE CONSTRUCTED BY OTHERS

- IF LOOSE SANDS ARE DISCOVERED BENEATH THE TOPSOIL, VIBRATORY COMPACTIVE EFFORT/DENSIFICATION AND SUBSEQUENT EVALUATION SHALL BE REQUIRED FOR STABILITY PRIOR TO PLACING SELECT FILL.

*SELECT FILL SHALL BE COMPLETED PER ARTICLE 202(c). REPRESENTATIVE SAMPLES OF PROPOSED FILL SHALL BE SUBMITTED TO THE CITY'S GEOTECH CONSULTANT FOR OPTIMUM MOISTURE-MAXIMUM DENSITY DETERMINATION (ASTM D1557) PRIOR TO THE START OF FILL PLACEMENT. THE SAMPLE SIZE SHALL BE APPROXIMATELY 50 LB. THE CITY'S GEOTECH CONSULTANT SHALL BE RETAINED TO PERFORM FIELD DENSITY TEST TO DETERMINE THE LEVEL OF COMPACTION BEING ACHIEVED IN THE FILL. THE TESTS SHALL GENERALLY BE CONDUCTED ON EACH LIFT AT THE BEGINNING OF FILL PLACEMENT AND AT A FREQUENCY MUTUALLY AGREED UPON BY THE PROJECT TEAM FOR THE REMAINDER OF THE PROJECT.

**TEST ROLLING SHALL BE COMPLETED PER ARTICLE 201.29(c) OF THE STANDARD SPECIFICATIONS.

***GEOSYNTHETIC REINFORCEMENT FABRIC SHALL BE MIRIAFI RS580i OR AN APPROVED EQUAL. THE BREAKER RUN SHALL BE PLACED DIRECTLY OVER THE FABRIC.

**** INSTALL CLAY LINER FOR OVERFLOW BETWEEN STA 106+50 RT TO STA 107+25 RT.

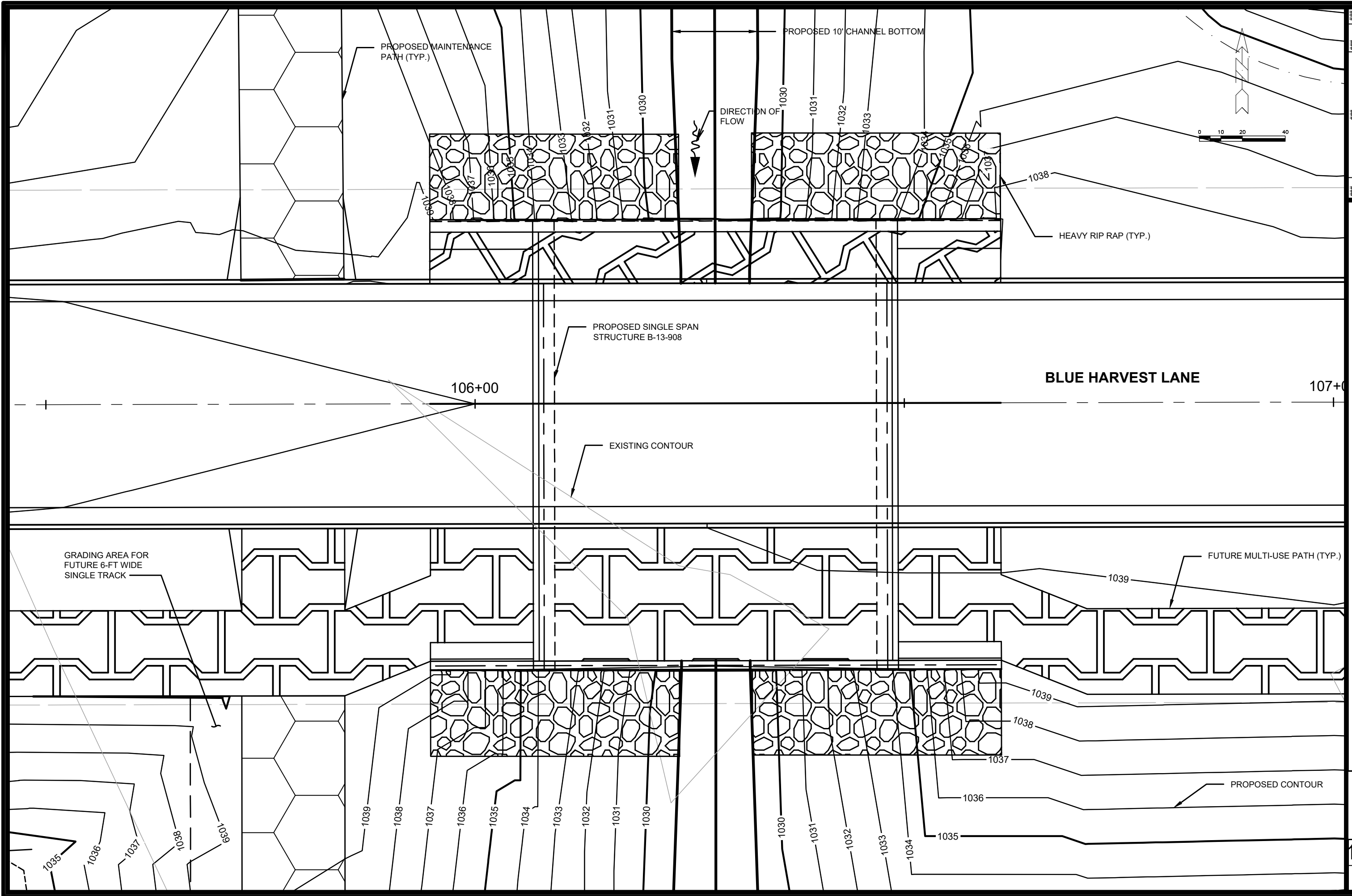
**TYPICAL SECTION
BLUE HARVEST LANE
STA 100+13 TO STA 107+25**

- ① POINT REFERRED ON BLUE HARVEST LANE CROSS SECTIONS
- ② 1.75" HMA PAVEMENT, TYPE 4 LT 58-28 S (UPPER LAYER) - BY OTHERS
- ③ 1.75" HMA PAVEMENT, TYPE 4 LT 58-28 S (LOWER LAYER) - BY OTHERS
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE (UPPER LAYER) - BY OTHERS
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE (LOWER LAYER) - BY OTHERS
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A', SEE P-SHEETS FOR LOCATIONS - BY OTHERS
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION - BY OTHERS
- ⑧ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING - BY OTHERS
- ⑨ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE (UPPER LAYER) - BY OTHERS
- ⑩ 3.00" HMA PAVEMENT, TYPE 4 LT 58-28 S - BY OTHERS
- ⑪ *SELECT FILL, DEPTH VARIES
- ⑫ **12" BREAKER RUN AS NEEDED
- ⑬ ***GEOSYNTHETIC REINFORCEMENT FABRIC AS NEEDED
- ⑭ ****6" CLAY LINER
- ⑮ 6" TOPSOIL

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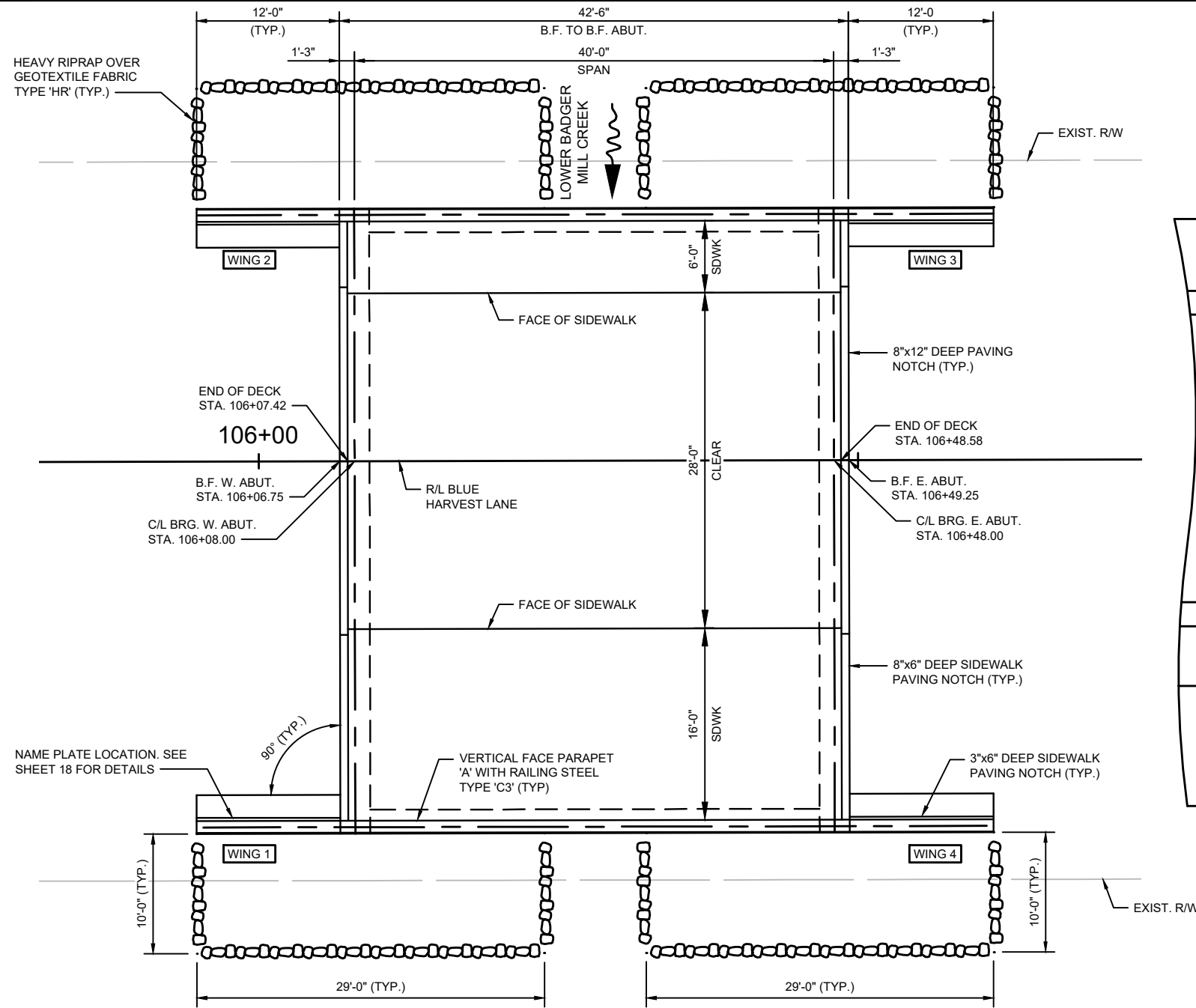
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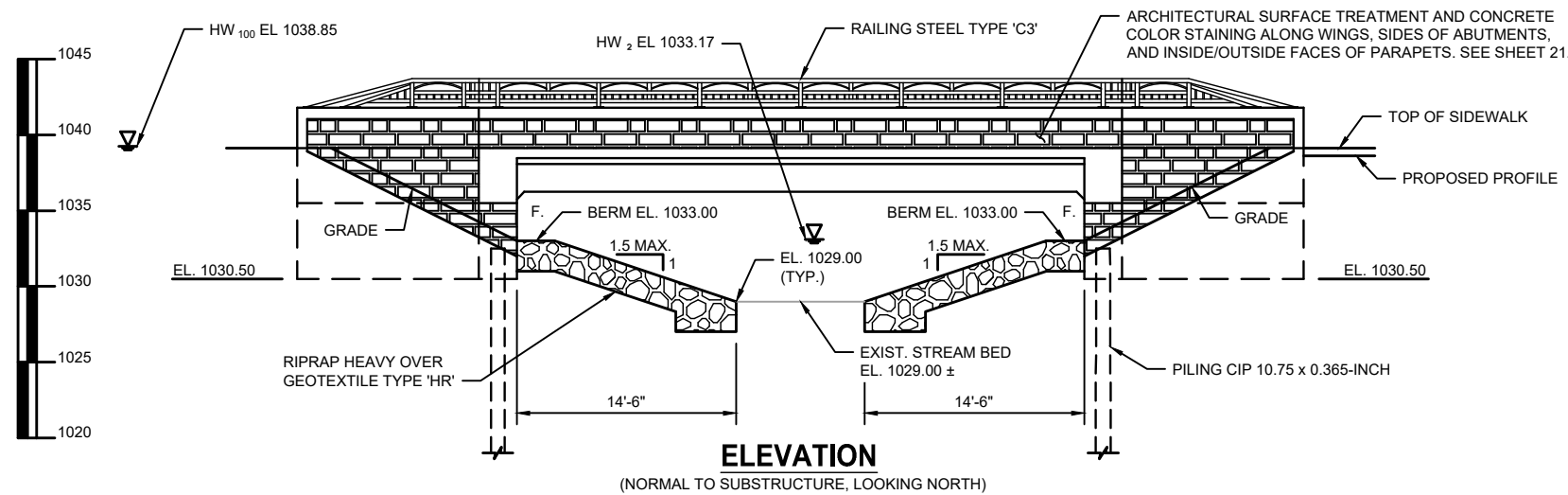
B-13-908 STRUCTURE OVERVIEW
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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PLAN
(SINGLE SPAN CONCRETE FLAT SLAB)



ELEVATION
(NORMAL TO SUBSTRUCTURE, LOOKING NORTH)

DESIGN DATA

STRUCTURE DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF.

LIVE LOAD:

- DESIGN LOADING _____ HL-93
- INVENTORY RATING FACTOR _____ RF = 1.07
- OPERATING RATING FACTOR _____ RF = 1.38
- WISCONSIN STANDARD PERMIT _____
- VEHICLE (WIS-SPV) _____ 250 KIPS

MATERIAL PROPERTIES:

- CONCRETE SUPERSTRUCTURE _____ f_c = 4,000 PSI
- CONCRETE SUBSTRUCTURE _____ f_c = 3,500 PSI
- HIGH STRENGTH BAR _____
- STEEL REINFORCEMENT _____ f_y = 60,000 PSI

TRAFFIC DATA

A.D.T. (2023):
A.D.T. (2043):
DESIGN SPEED: 30 MPH

FOUNDATION DATA

ABUTMENT TO BE SUPPORTED ON PILING CIP 10.75 x 0.365-INCH DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 150 TONS * PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. CONICAL PILE POINTS ARE REQUIRED.

* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

ESTIMATED PILE LENGTHS:

- WEST ABUTMENT _____ 60 FEET EACH
- EAST ABUTMENT _____ 65 FEET EACH

LIST OF DRAWINGS

8. B-13-908 GENERAL PLAN
9. B-13-908 CROSS SECTION, QUANTITIES, NOTES & DETAILS
10. B-13-908 SUBSURFACE EXPLORATION
11. B-13-908 WEST ABUTMENT
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19. B-13-908 RAILING STEEL TYPE 'C3'
20. B-13-908 CONDUIT DETAILS
21. B-13-908 AESTHETIC DETAILS

STRUCTURE DESIGN CONTACTS

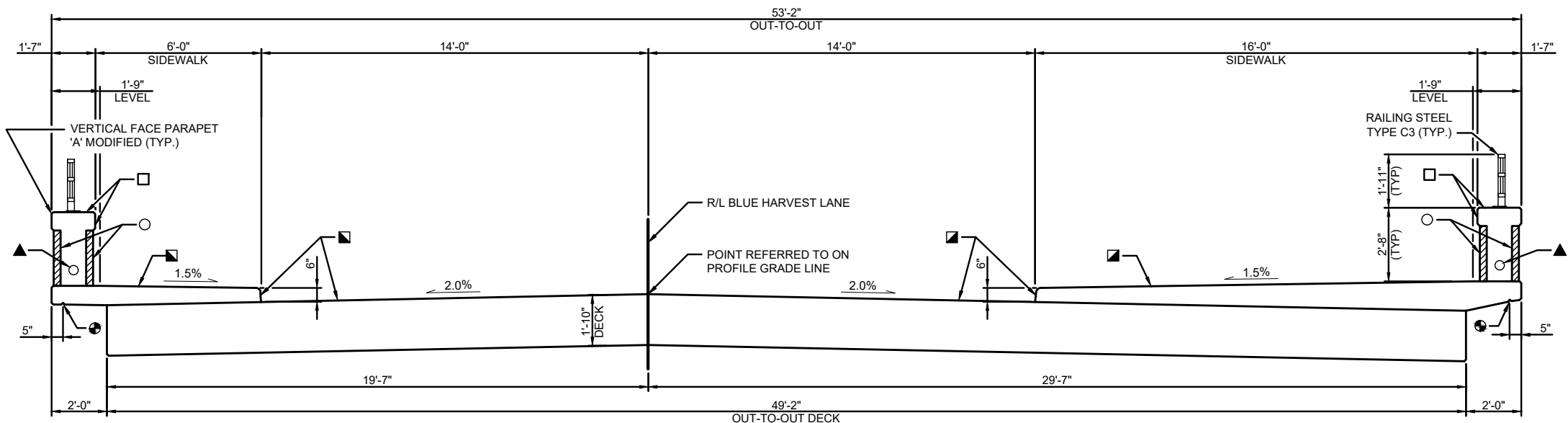
DESIGN CONSULTANT CONTACT:
KEITH BEHREND (608) 251-4843

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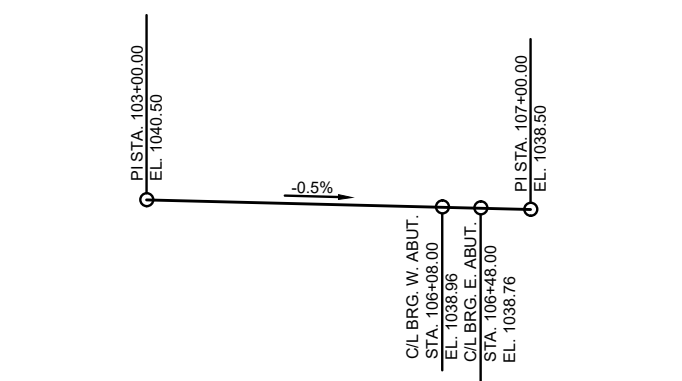
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B-13-908 BRIDGE GENERAL PLAN
LOWER BADGER MILL CREEK FLOOD MITIGATION
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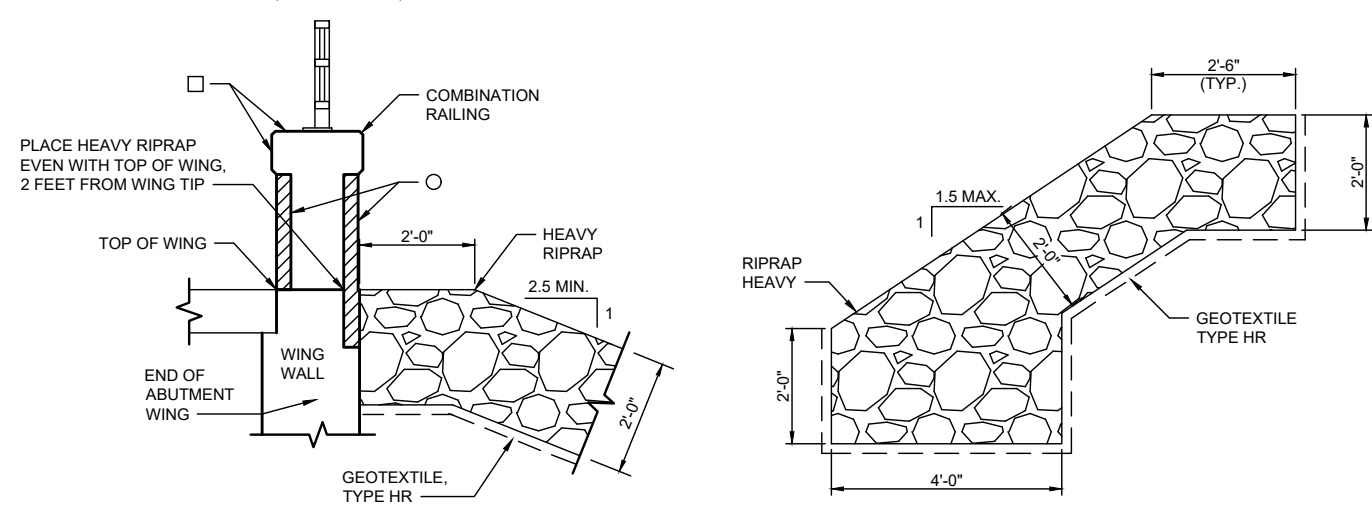




CROSS SECTION THRU SUPERSTRUCTURE
(LOOKING EAST)



PROFILE GRADE LINE - BLUE HARVEST LANE



TYPICAL FILL SECTION AT WING TIPS

RIPRAP HEAVY DETAIL

GENERAL NOTES

SEE ROADWAY PLANS FOR BENCH MARK INFORMATION.

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR DIMENSIONS FOR BENDING ARE OUT-TO-OUT OF BARS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-13-908" SHALL BE THE EXISTING GROUND LINE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 8 AND IN THE ABUTMENT DETAILS.

AT THE BACKFACE OF ABUTMENTS ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH "BACKFILL STRUCTURE TYPE A".

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WING FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. "GEOTEXTILE TYPE DF SCHEDULE A" SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

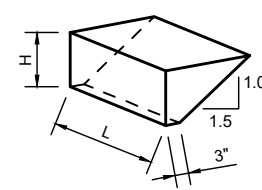
ALL DETAILS, MATERIALS, AND FABRICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION FOR THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION, CURRENT EDITION. A NAME PLATE CONFORMING TO SECTION 506.2.4 OF THE STANDARD SPECIFICATIONS AND STANDARD DETAIL DRAWING 12A3 OF THE WISCONSIN FACILITIES DEVELOPMENT MANUAL SHALL BE INSTALLED. NAME PLATE SHALL BE INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

LEGEND

- ⊕ 3/4" V-GROOVE REQ'D EXTEND. TO 6" FROM F.F. OF ABUTMENT DIAPHRAGMS.
- PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF DECK, TOP OF SIDEWALK, AND VERTICAL FACE OF SIDEWALK.
- PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE INSIDE, ENDS, AND TOP FACES OF THE PARAPETS THAT DON'T RECEIVE ARCHITECTURAL SURFACE TREATMENT..
- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON "B-13-908 WEST ABUTMENT" SHEET.
- ARCHITECTURAL SURFACE TREATMENT AND CONCRETE STAINING. SEE AESTHETIC DETAILS ON SHEET 18.
- ▲ 2-INCH DIA. CONDUIT.

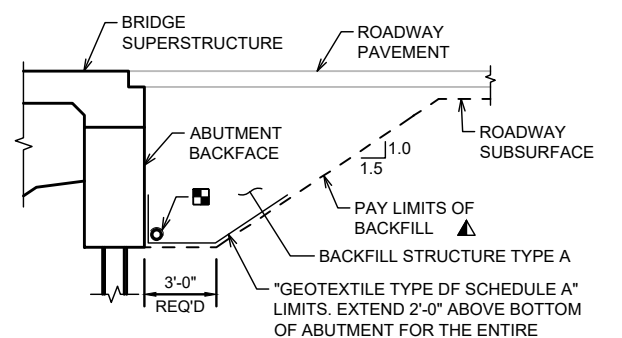
TOTAL ESTIMATED QUANTITIES

REFERENCE WISDOT BID ITEM NUMBER	BID ITEMS	UNIT	WEST ABUT.	EAST ABUT.	SUPERS.	TOTAL
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-13-908	EACH	---	---	---	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	216	206	---	422
502.0100	CONCRETE MASONRY BRIDGES	CY	52.3	50.6	190.4	293
502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	---	234	234
502.3210	PIGMENTED SURFACE SEALER	SY	7	7	21	35
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	3,220	3,190	---	6,410
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,800	1,770	34,770	38,340
513.7016	RAILING STEEL TYPE C3	LF	---	---	131	131
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	13	13	---	26
	CONCRETE STAINING B-13-908	SF	182	177	340	699
	ARCHITECTURAL SURFACE TREATMENT B-13-908	SF	182	177	340	699
550.0500	PILE POINTS	EACH	8	8	---	16
550.2106	PILING CIP CONCRETE 10 3/4 X 0.365-INCH	LF	480	520	---	1,000
606.0300	RIPRAP HEAVY	CY	131	131	---	262
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	117	117	---	234
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	44	44	---	88
645.0120	GEOTEXTILE TYPE HR	SY	232	232	---	464
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	35	35	85	155
	NON-BID ITEMS					
	FILLER	SIZE				1/2" & 3/4"



ABUTMENT BACKFILL DIAGRAM

L = OUT TO OUT OF ABUTMENT BODY INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
 $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)$
 $V_{CY} = V_{CF}(EF)/27$
 $V_{TON} = V_{CY}(2.0)$

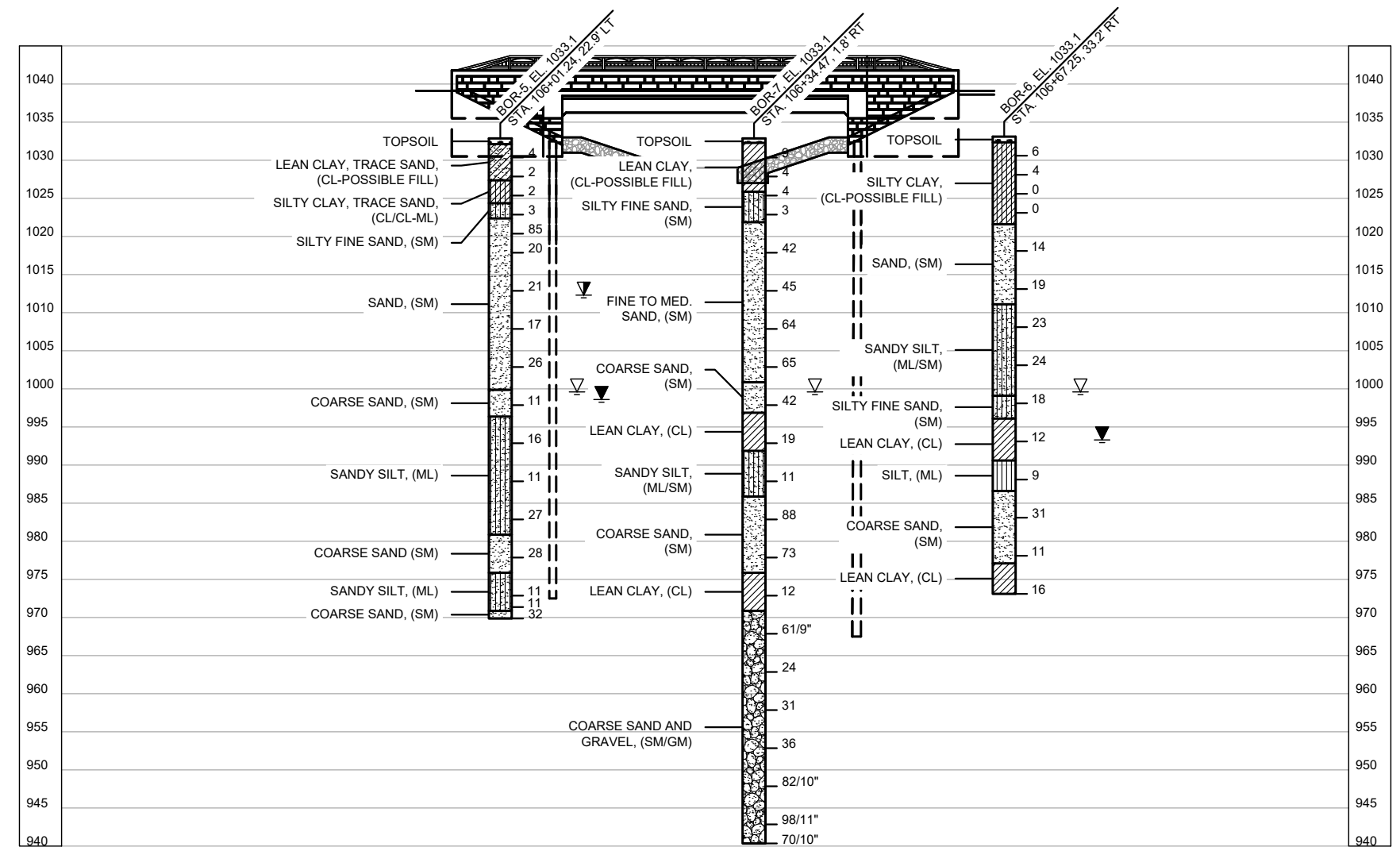
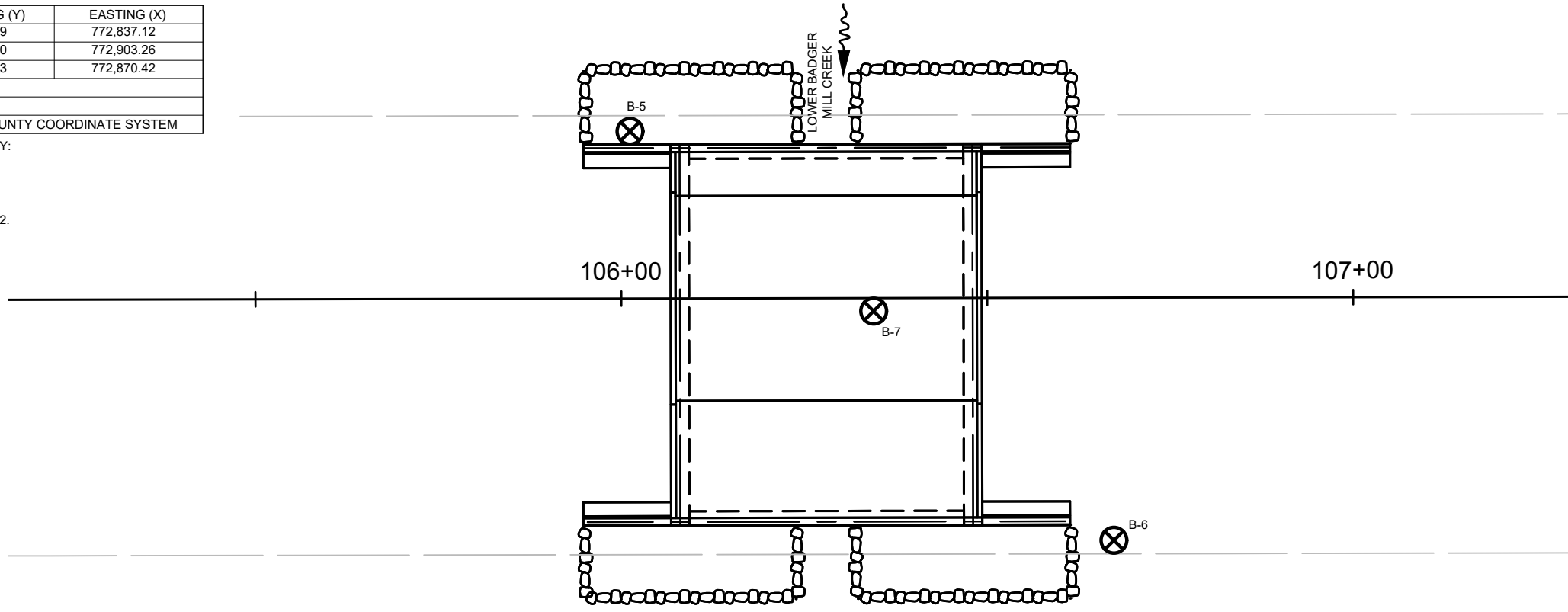


TYPICAL SECTION THRU ABUTMENT

B-13-908 CROSS SECTION, QUANTITIES, NOTES & DETAILS
LOWER BADGER MILL CREEK FLOOD MITIGATION
 S:\MAD1000-1099\1020\129\Drawings\CAD\Civil 3d\Sheets\Plan\Struc-Cross Section.dwg
 1020.129
 CITY OF MADISON
 CONTRACT NO.: 9030
 10

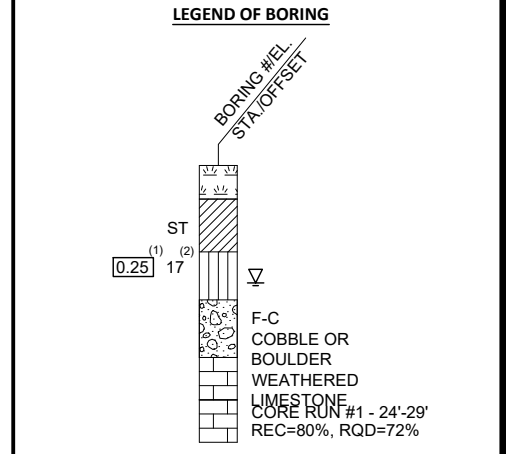
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
5	8-22-2022	469,731.39	772,837.12
6	8-22-2022	469,675.50	772,903.26
7	9-08-2022	469,706.83	772,870.42

BORINGS COMPLETED BY: CGC, INC.
 REPORT COMPLETED BY: CGC, INC.
 ALL COORDINATES REFERENCED TO DANE COUNTY COORDINATE SYSTEM
 BORINGS PERFORMED AND REPORT COMPLETE BY:
 CGC, INC.
 2921 PERRY STREET,
 MADISON, WI 53713
 BORINGS WERE PERFORMED ON 8/22/22 AND 9/8/22.



MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)
 (2) UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

▽	AT TIME OF DRILLING
▽	END OF DRILLING
▽	AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

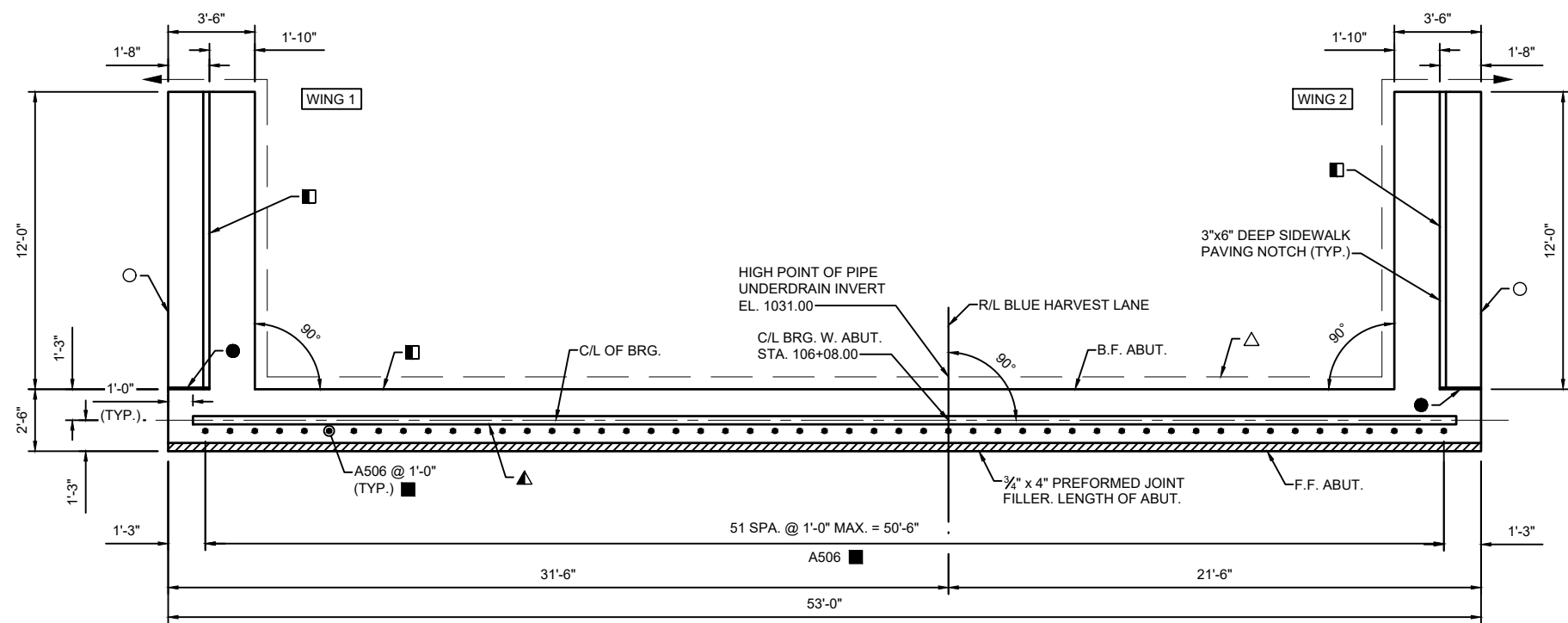
BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

REVISION	DATE	BY
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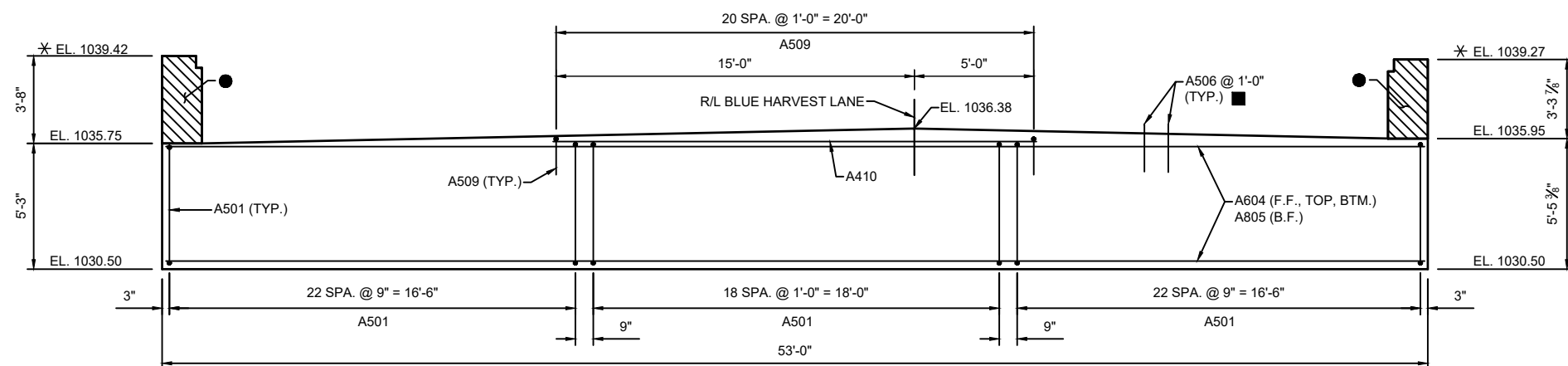
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 Designed By: JGG
 MARK
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1020.129
 CITY OF MADISON
 9030
 CONTRACT NO.:
 B-13-908 SUBSURFACE EXPLORATION
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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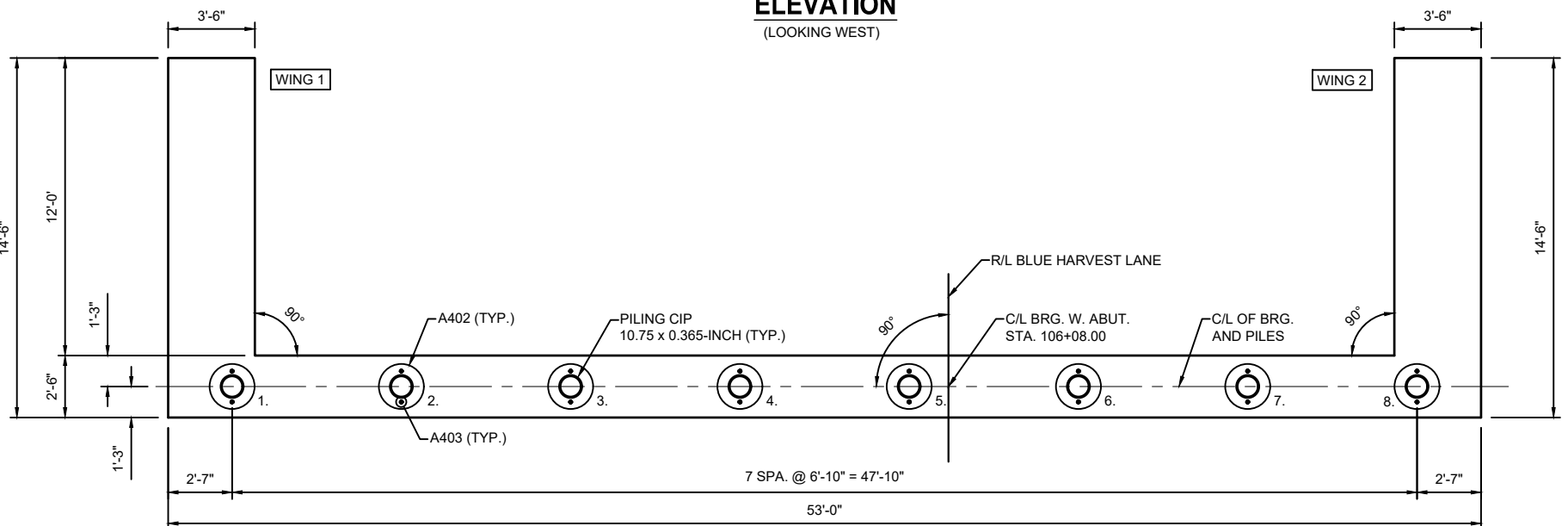




PLAN → Z →



ELEVATION
(LOOKING WEST)



PILE PLAN → Z →

NOTES

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER 1" DEEP AND HOLD 1/2" BELOW SURFACE OF CONCRETE. EXTEND SEALER 3" BELOW FINISHED ROADWAY SURFACE AT INSIDE FACE.

ADJUST A501 BARS INTERFERING WITH PILINGS.

SEE SHEET 13 FOR PILE SPLICE DETAILS.

SEE SHEET 12 FOR REINFORCING DETAILS.

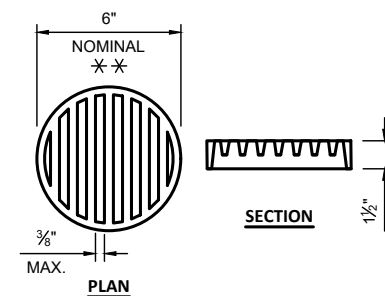
WEST ABUTMENT TO BE SUPPORTED ON PILING CIP 10.75 x 0.365-INCH WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE. ESTIMATED 60 FEET LONG EACH. CONICAL PILE POINTS REQUIRED.

SEE SHEET 9 FOR TYPICAL FILL SECTION AT WING TIPS.

SEE SHEET 21 FOR AESTHETIC DETAILS.

LEGEND

- 1/2" FILLER, EXTEND FROM ABUT. SEAT TO TOP OF CONCRETE WING. FILLER INCLUDED IN WING LENGTH.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- * ELEVATION GIVEN AT B.F. ABUTMENT.
- △ PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. HIGH POINT EL. 1031.00 AT R/L. ATTACH RODENT SHIELD AT ENDS OF PIPE. SEE DETAIL THIS SHEET.
- THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.
- ▲ KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2"x6".
- ARCHITECTURAL SURFACE TREATMENT AND CONCRETE STAINING AS NEEDED. SEE SHEET 21 FOR EXTENTS.



RODENT SHIELD DETAIL

* * DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

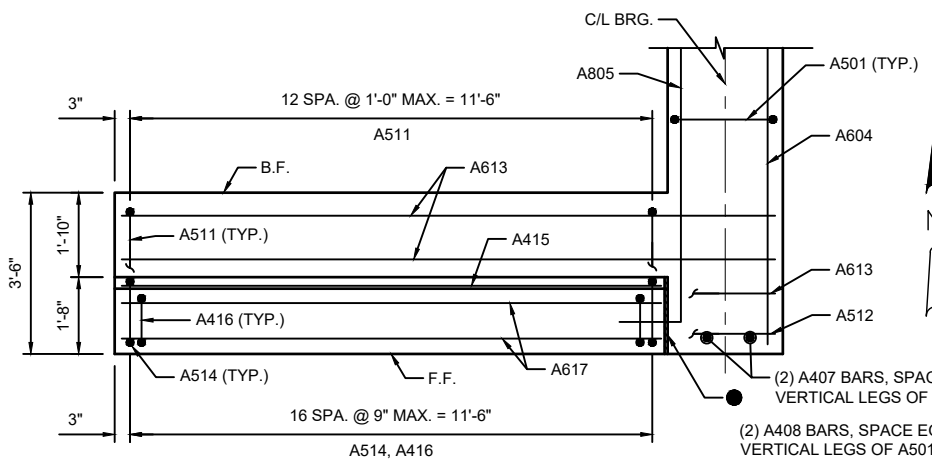
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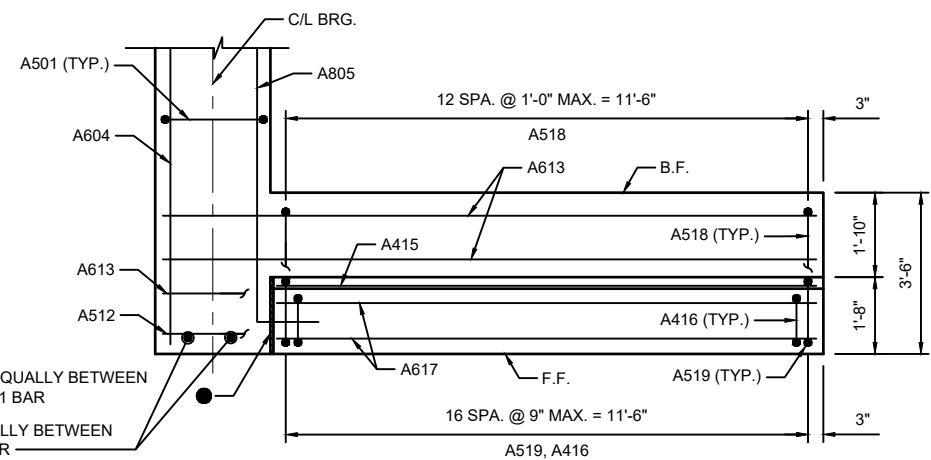
1020.129
 CITY OF MADISON
 CONTRACT NO: 9030

B-13-908 WEST ABUTMENT
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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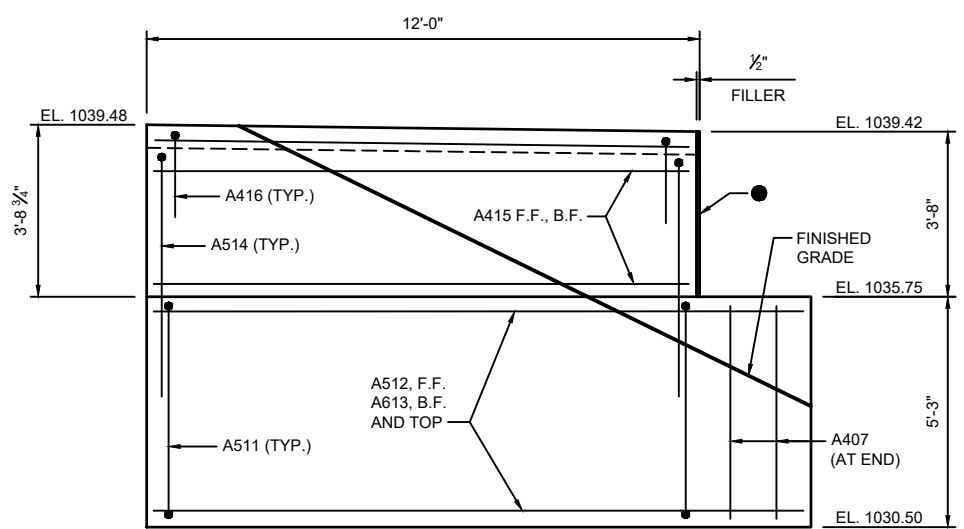




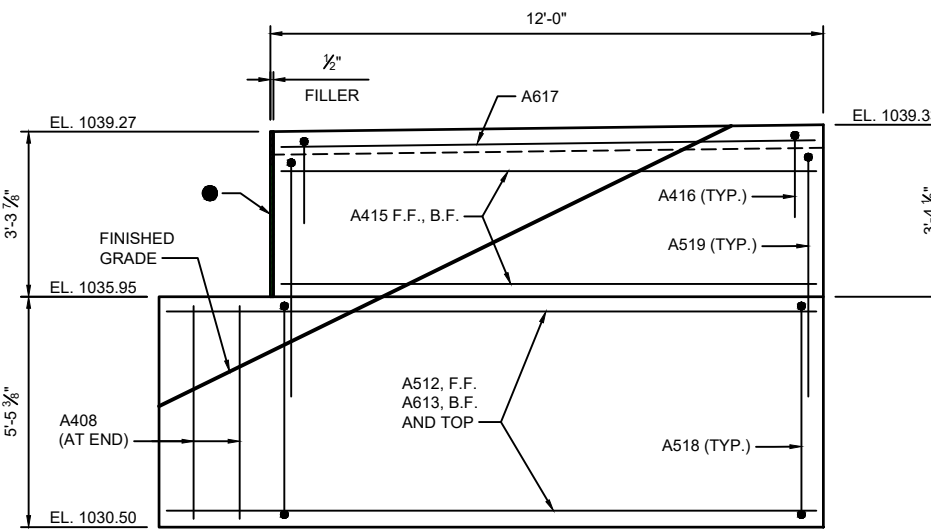
WING 1 PLAN



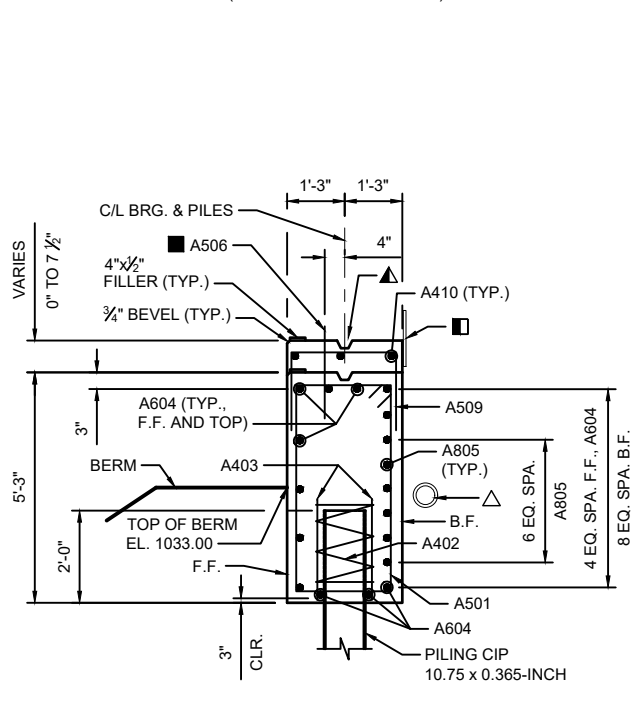
WING 2 PLAN



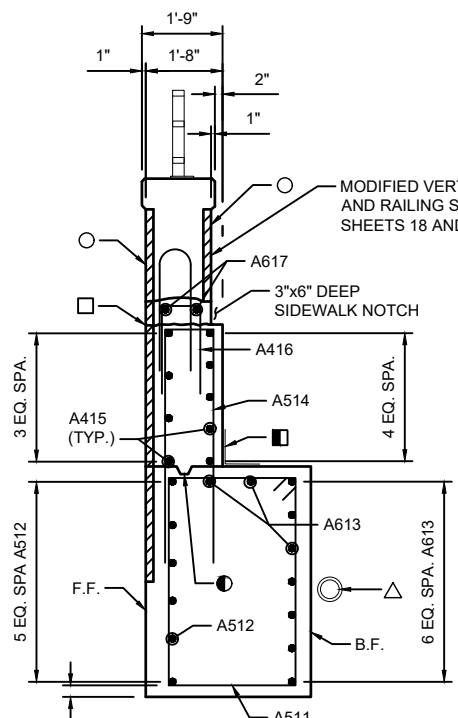
WING 1 ELEVATION
(LOOKING AT FRONT FACE)



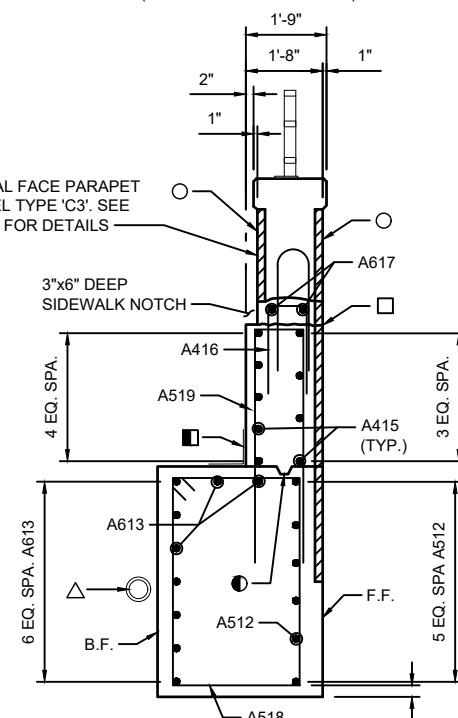
WING 2 ELEVATION
(LOOKING AT FRONT FACE)



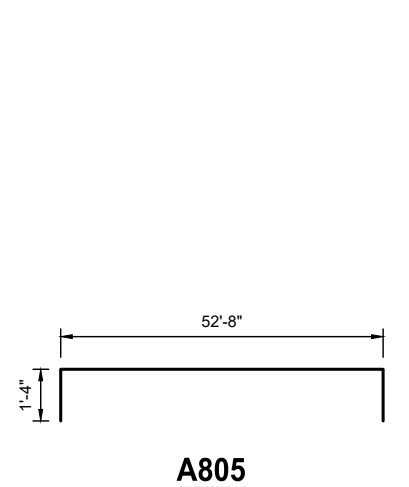
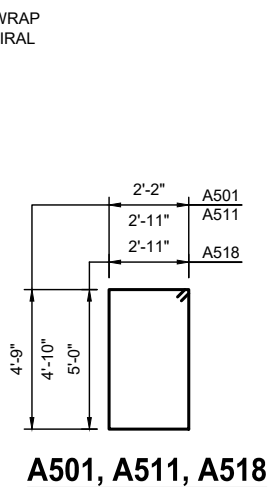
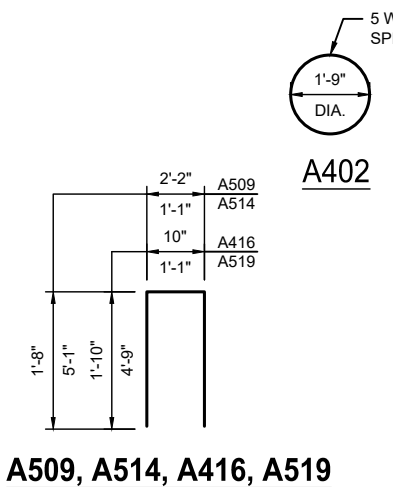
TYPICAL BODY SECTION



WING 1 SECTION



WING 2 SECTION



**WEST ABUTMENT
BILL OF BARS**

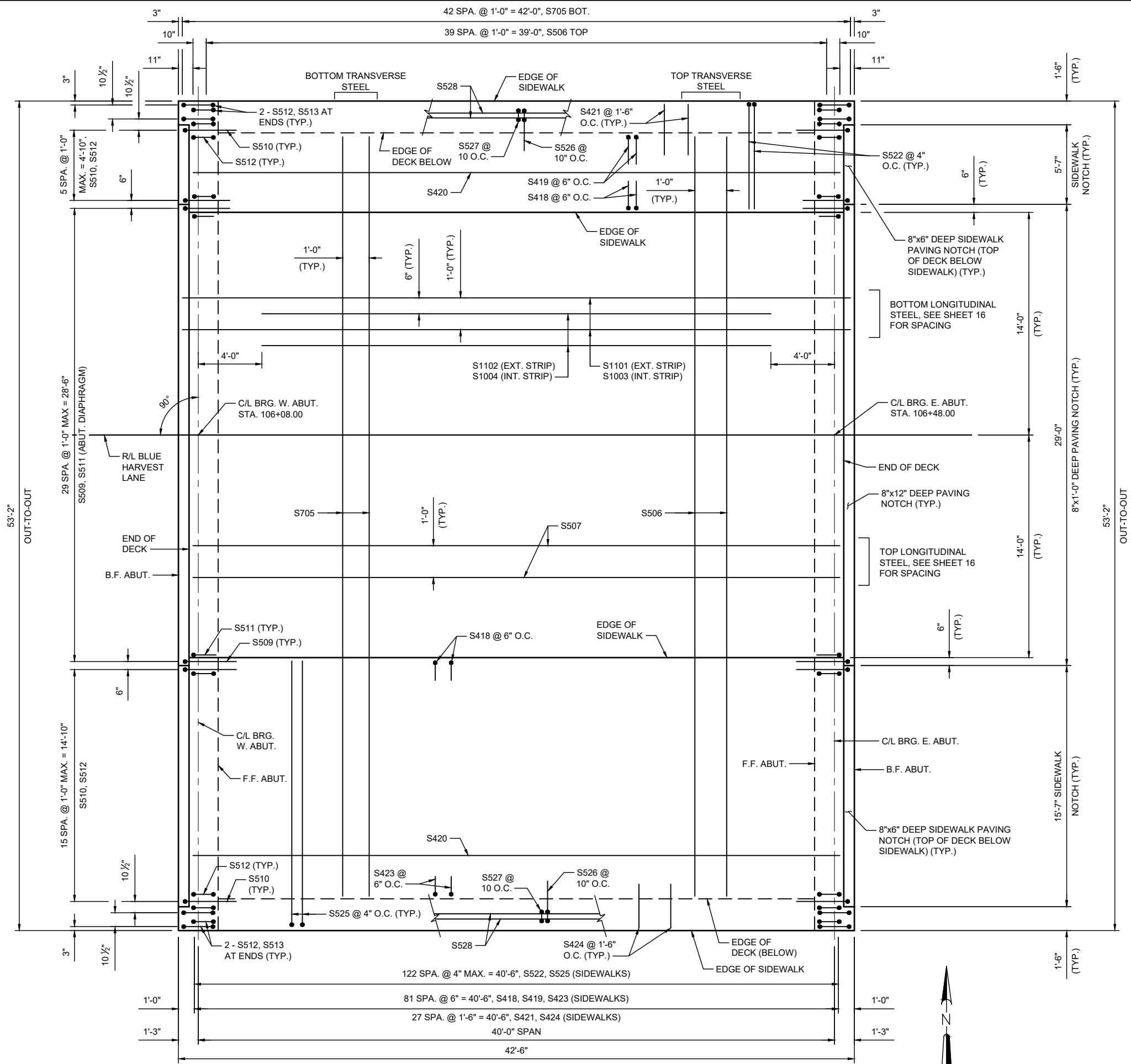
**UNCOATED: 3,220 LBS
COATED: 1,800 LBS**

BAR MARK	NO. REQD	LENGTH	BENT	COAT	LOCATION
A501	65	14'-6"	X		LOWER BODY - VERT.
A402	8	28'-0"	X		LOWER BODY - PILES - SPIRAL
A403	16	2'-3"			LOWER BODY - PILES - VERT.
A604	11	52'-8"			LOWER BODY - TOP, BOT., & F.F. - HORIZ.
A805	7	54'-11"	X		LOWER BODY - B.F. - HORIZ.
A506	52	2'-0"		X	LOWER BODY - TOP - VERT.
A407	2	4'-10"			LOWER BODY - VERT. - SOUTH END
A408	2	5'-0"			LOWER BODY - VERT. - NORTH END
A509	21	5'-3"	X		LOWER BODY - VERT. - TOP
A410	3	20'-0"			LOWER BODY - HORIZ. - TOP
A511	13	16'-2"	X	X	LOWER WING - VERT. - WING 1
A512	12	14'-2"		X	LOWER WING - F.F. - HORIZ. - WINGS 1 & 2
A613	18	14'-2"		X	LOWER WING - B.F., TOP - HORIZ. - WINGS 1 & 2
A514	17	11'-0"	X	X	UPPER WING - VERT. - WING 1
A415	18	11'-7"		X	UPPER WINGS - F.F., B.F. - HORIZ. - WINGS 1 & 2
A416	34	4'-4"	X	X	UPPER WINGS - VERT. - WINGS 1 & 2
A617	4	11'-7"		X	UPPER WINGS - HORIZ. - WINGS 1 & 2
A518	13	16'-6"	X	X	LOWER WING - VERT. - WING 2
A519	17	10'-4"	X	X	UPPER WING - VERT. - WING 2

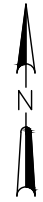
LEGEND

- OPTIONAL CONSTRUCTION JOINT FORMED BY BEVELED 2"x6" KEYWAY WITH MEMBRANE ON BACKFACE.
- 1/2" FILLER TO EXTEND FROM ABUT. SEAT TO TOP OF CONCRETE PARAPET. FILLER INCLUDED IN WING LENGTH. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW TOP OF WING AT INSIDE FACE.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- ▲ KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2"x6".
- △ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 11.
- THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.
- OPTIONAL CONSTRUCTION JOINT, LEAVE ROUGH. POUR CONCRETE ABOVE THIS JOINT AFTER DECK IS IN PLACE. IF JOINT IS USED, UTILIZE RUBBERIZED MEMBRANE WATERPROOFING (COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES").
- ARCHITECTURAL SURFACE TREATMENT AND CONCRETE STAINING. SEE AESTHETIC DETAILS ON SHEET 21.

1020.129
 CITY OF MADISON
 CONTRACT NO.: 9030
 B-13-908 WEST ABUTMENT DETAILS
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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PLAN

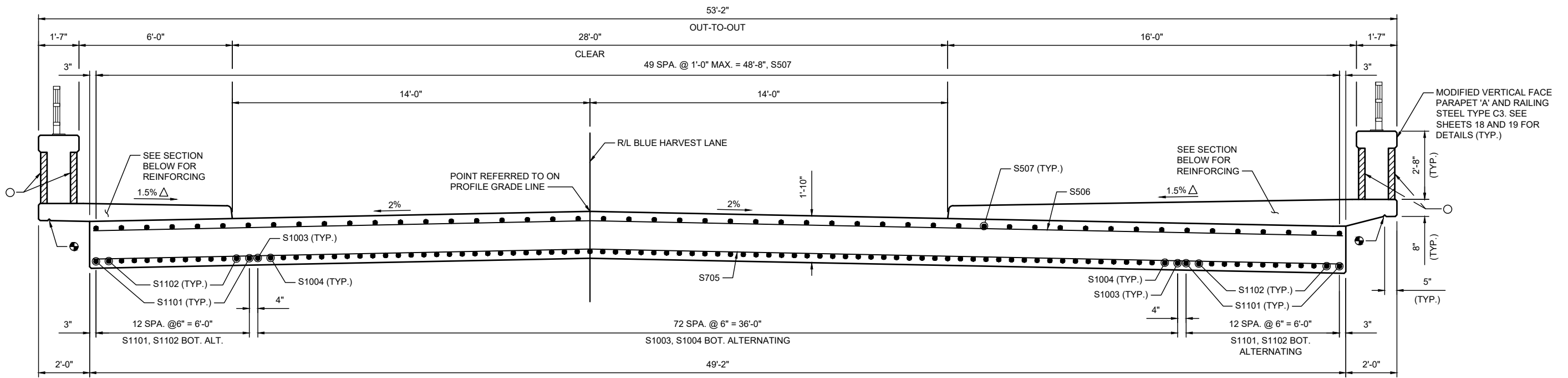


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MARK	REVISION	DATE	BY	DESIGNED BY	CHECKED BY	SCALE										
1020.129				J.G.		1"=40'										
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 CITY OF MADISON
 CONTRACT NO: 9030

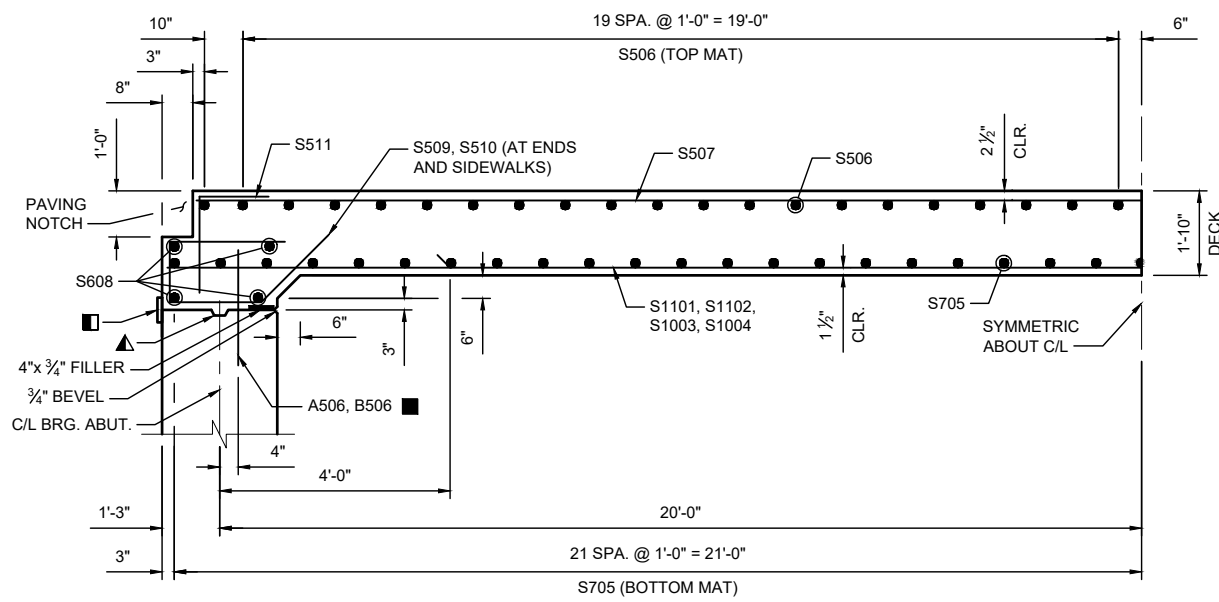
B-13-908 SUPERSTRUCTURE PLAN
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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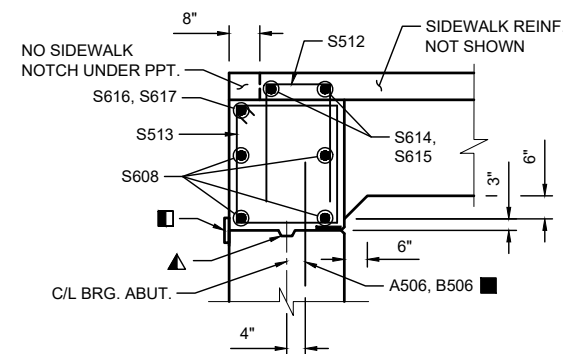


CROSS SECTION THRU SUPERSTRUCTURE

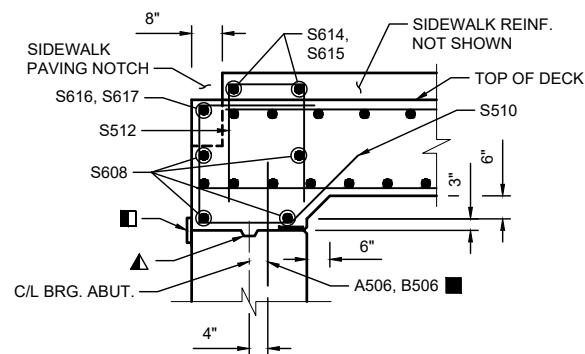
(LOOKING EAST)



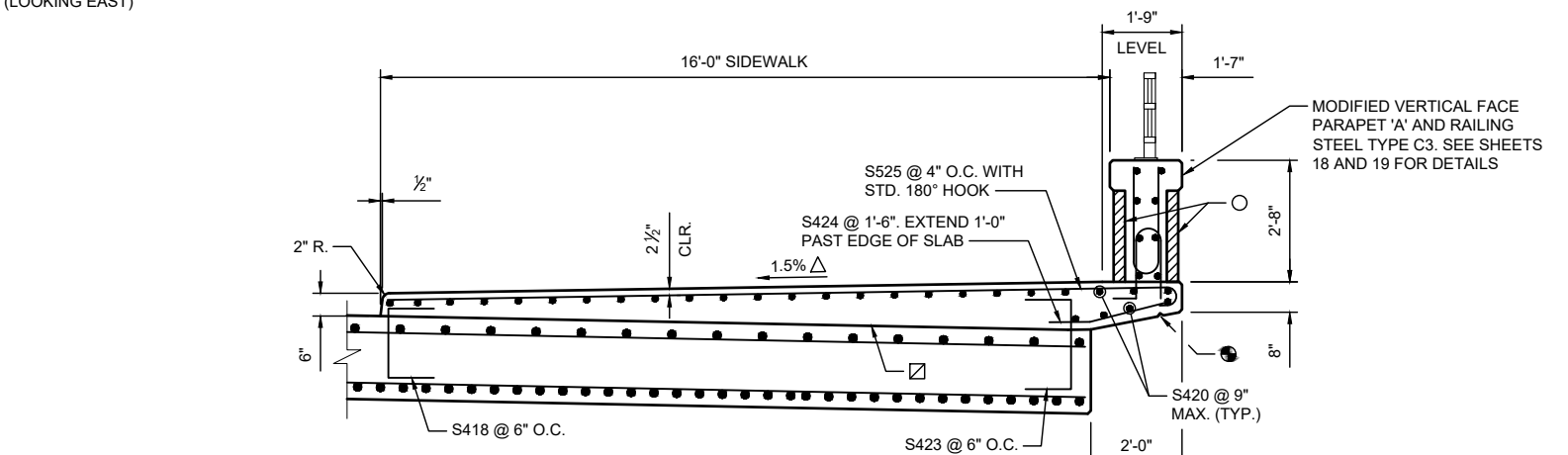
HALF LONGITUDINAL SECTION



SECTION AT ABUT. DIAPHRAGM AT ENDS

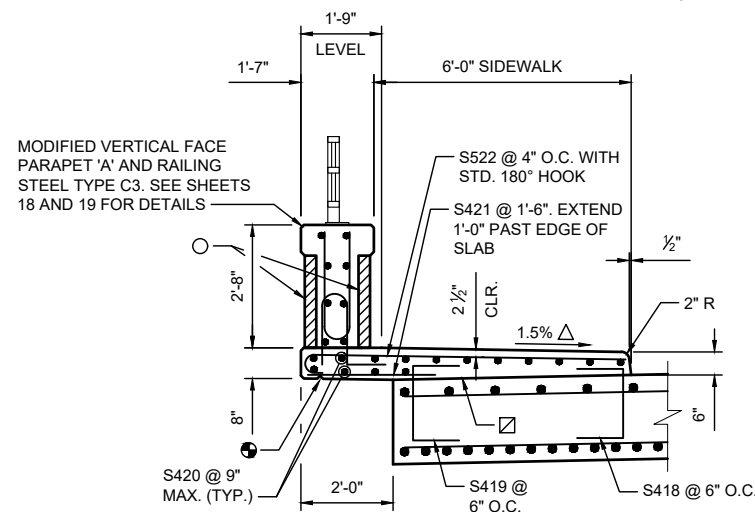


SECTION AT ABUT. DIAPHRAGM WITH SIDEWALK



SECTION THRU SIDEWALK

(SEE "CROSS SECTION THRU SUPERSTRUCTURE" FOR MAIN SLAB REINFORCING DETAILS)



SECTION THRU SIDEWALK

(SEE "CROSS SECTION THRU SUPERSTRUCTURE" FOR MAIN SLAB REINFORCING DETAILS)

LEGEND

- 18" RUBBERIZED MEMBRANE WATERPROOFING.
- BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.
- ▲ KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2"x6".
- ⊕ 3/4" V-GROOVE REQ'D EXTEND TO 6" FROM F.F. OF ABUT. DIAPHRAGMS.
- △ ± 0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM ENGINEER.
- ⊠ CONSTRUCTION JOINT. STRIKE OFF AS SHOWN AND LEAVE ROUGH. MATCH BRIDGE CROSS SLOPE.
- ARCHITECTURAL SURFACE TREATMENT AND CONCRETE STAINING. SEE AESTHETIC DETAILS ON SHEET 21.

17	BY	###
17	DATE	###
17	REVISION	###
17	MARK	###
17	DESIGNED BY	JGG
17	DATE	2/17/2023 1:45 PM
17	SCALE	1"=40'
1020.129	MARK	###

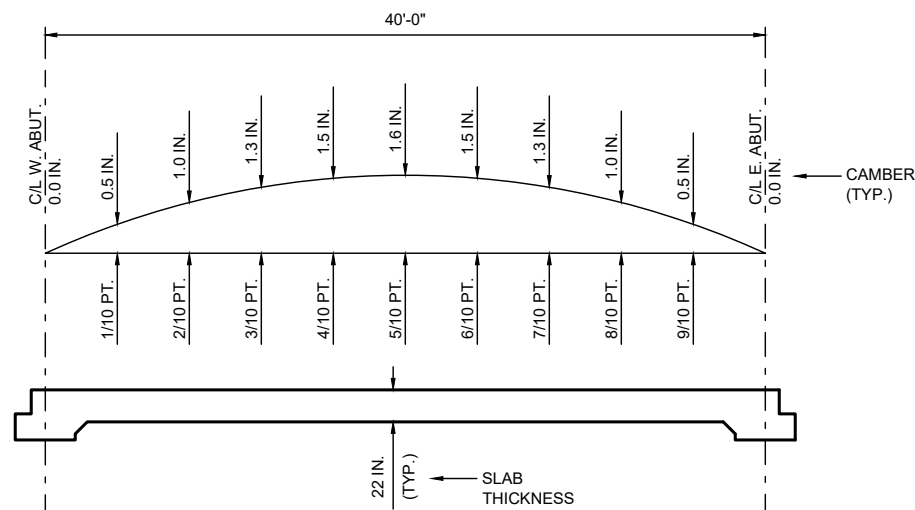
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CITY OF MADISON
CONTRACT NO: 9030

B-13-908 SUPERSTRUCTURE SECTIONS
LOWER BADGER MILL CREEK FLOOD MITIGATION
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1020.129



CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

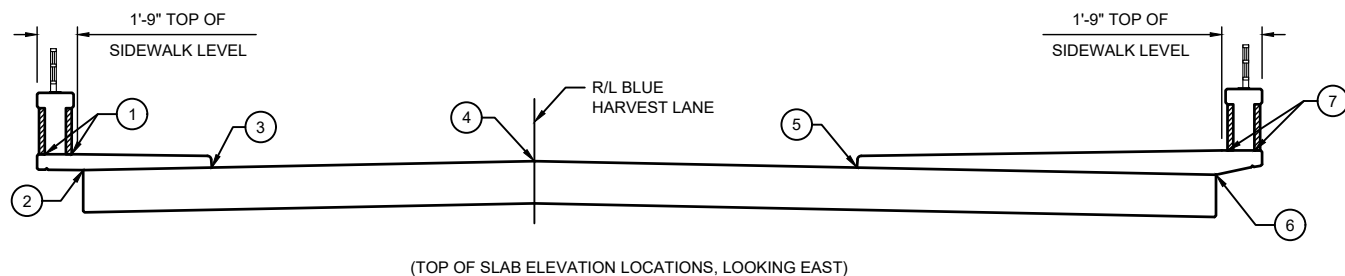
- TOP OF SLAB ELEVATION AT FINAL GRADE
- LESS SLAB THICKNESS
- PLUS CAMBER
- PLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
- EQUALS TOP OF SLAB FALSEWORK ELEVATION

TOP OF DECK ELEVATIONS

	CL BRG. W. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CL BRG. E. ABUT.
STATION	106+08.00	106+12.00	106+16.00	106+20.00	106+24.00	106+28.00	106+32.00	106+36.00	106+40.00	106+44.00	106+48.00
1 NORTH SIDEWALK, 21.58' LT *	1039.27	1039.25	1039.23	1039.21	1039.19	1039.17	1039.15	1039.13	1039.11	1039.09	1039.07
2 NORTH EDGE OF SLAB, 19.58' LT	1038.57	1038.55	1038.53	1038.51	1038.49	1038.47	1038.45	1038.43	1038.41	1038.39	1038.37
3 NORTH GUTTER LINE, 14.00' LT	1038.68	1038.66	1038.64	1038.62	1038.60	1038.58	1038.56	1038.54	1038.52	1038.50	1038.48
4 CROWN AT R/L	1038.96	1038.94	1038.92	1038.90	1038.88	1038.86	1038.84	1038.82	1038.80	1038.78	1038.76
5 SOUTH GUTTER LINE, 14.00' RT	1038.68	1038.66	1038.64	1038.62	1038.60	1038.58	1038.56	1038.54	1038.52	1038.50	1038.48
6 SOUTH EDGE OF SLAB, 29.58' RT	1038.37	1038.35	1038.33	1038.31	1038.29	1038.27	1038.25	1038.23	1038.21	1038.19	1038.17
7 SOUTH SIDEWALK, 31.58' RT *	1039.42	1039.40	1039.38	1039.36	1039.34	1039.32	1039.30	1039.28	1039.26	1039.24	1039.22

ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.

* SIDEWALK ELEVATION IS LEVEL UNDER PARAPET. SEE SHEET 16 FOR DETAILS.



SURVEY TOP OF SLAB ELEVATIONS

	W. ABUT	5/10 PT.	E. ABUT.
NORTH EDGE OF SLAB			
CROWN ON R/L			
SOUTH EDGE OF SLAB			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE C/L OF ABUTMENTS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG SLAB EDGES AND CROWN OR R/L. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

NOTES

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

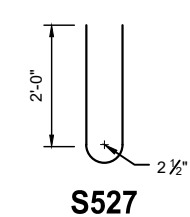
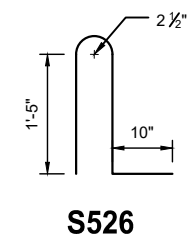
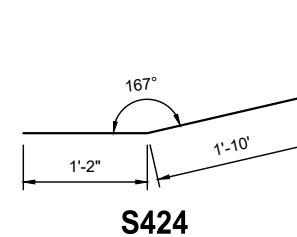
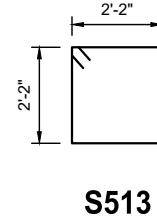
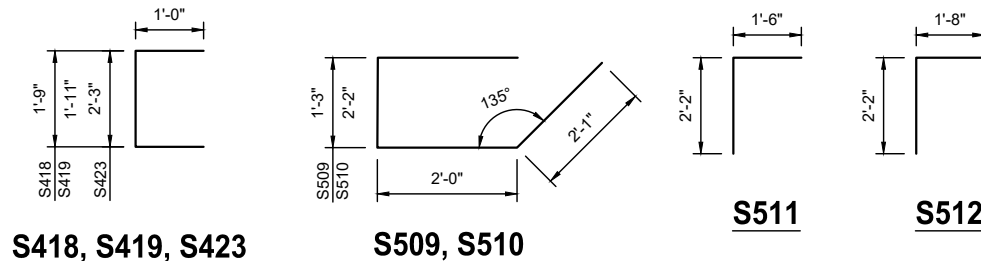
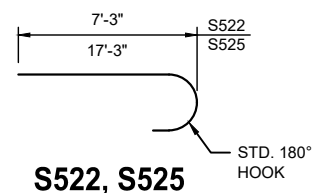
ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

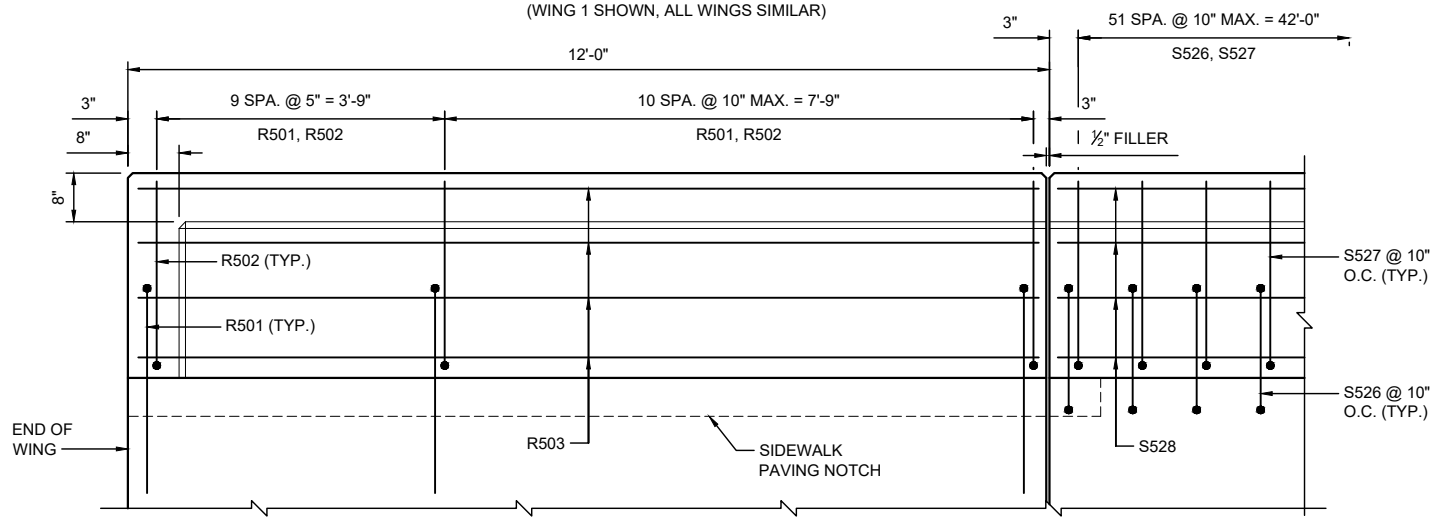
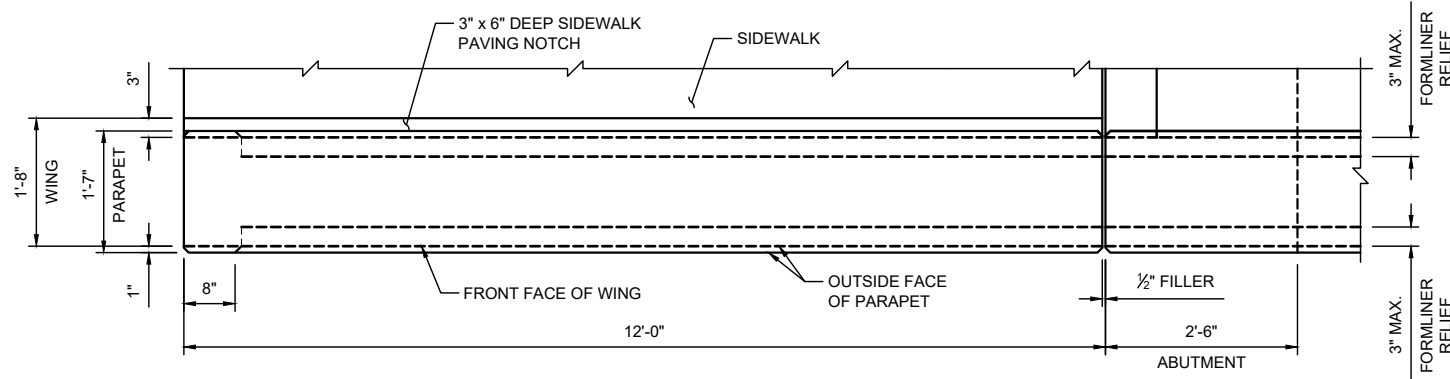
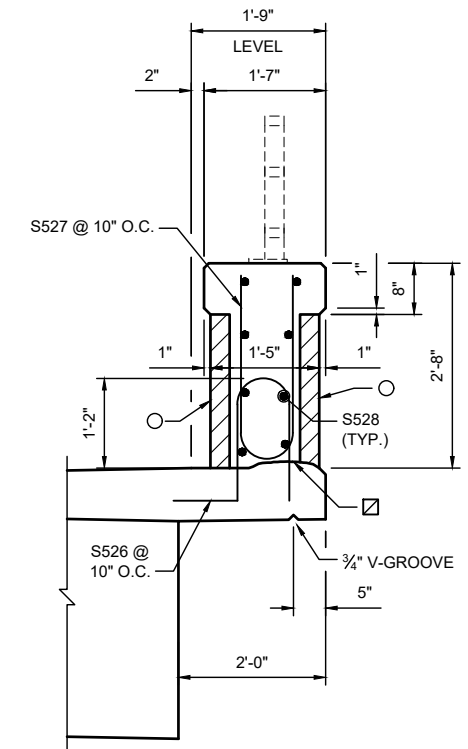
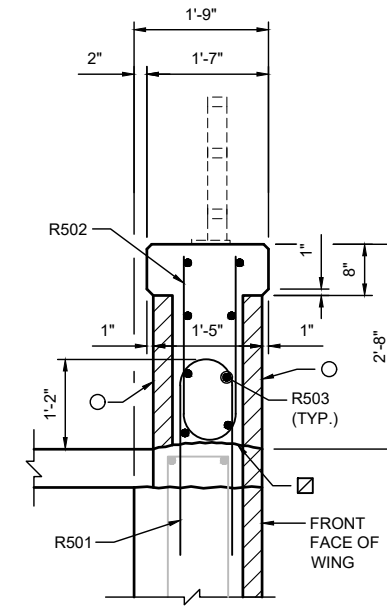
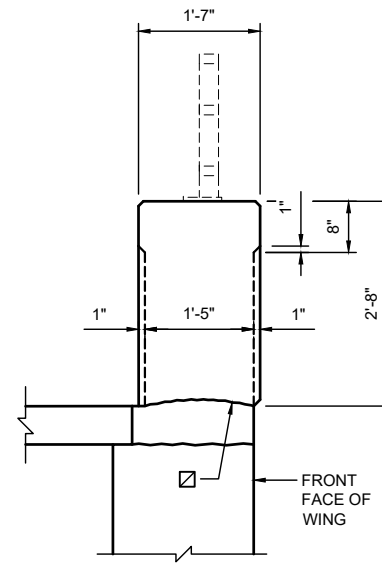
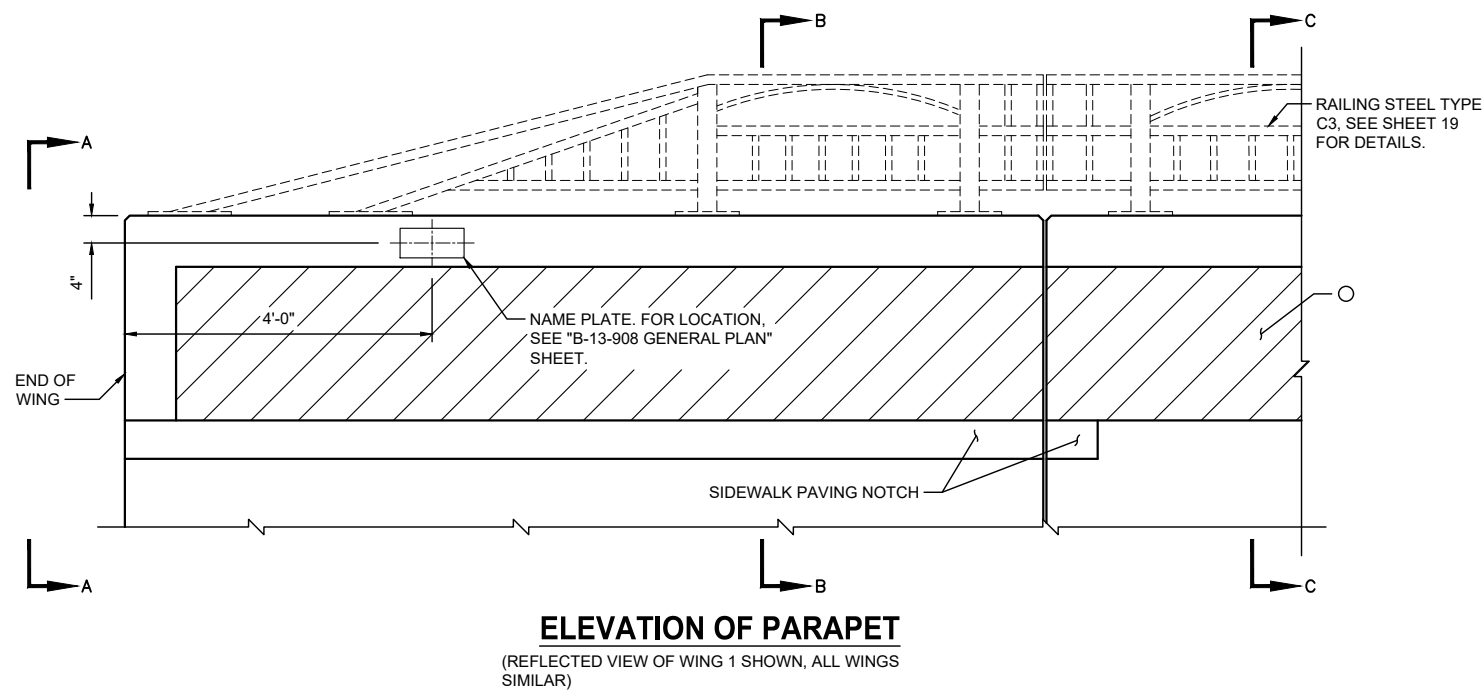
PARAPETS AND SIDEWALK PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

SUPERSTRUCTURE BILL OF BARS

COATED: 34,770 LBS

BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
S1101	14	42'-2"		X	SLAB - LONGIT. - BOT. - EXT. STRIP
S1102	12	32'-0"		X	SLAB - LONGIT. - BOT. - EXT. STRIP
S1003	37	42'-2"		X	SLAB - LONGIT. - BOT. - INT. STRIP
S1004	36	32'-0"		X	SLAB - LONGIT. - BOT. - INT. STRIP
S705	43	48'-10"		X	SLAB - TRANS. - BOT.
S506	42	48'-10"		X	SLAB - TRANS. - TOP
S507	50	40'-10"		X	SLAB - LONGIT. - TOP
S608	8	52'-10"		X	ABUT. DIAPHRAGM - HORIZ.
S509	60	7'-1"	X	X	ABUT. DIAPHRAGM - VERT.
S510	44	8'-0"	X	X	ABUT. DIAPHRAGM - VERT. - SIDEWALKS
S511	60	3'-7"	X	X	ABUT. DIAPHRAGM - VERT.
S512	52	5'-9"	X	X	ABUT. DIAPHRAGM - VERT. - SIDEWALKS
S513	8	9'-4"	X	X	ABUT. DIAPHRAGM - VERT. - NORTH & SOUTH END
S614	4	6'-9"		X	ABUT. DIAPHRAGM - HORIZ. - 6' SIDEWALK
S615	4	16'-9"		X	ABUT. DIAPHRAGM - HORIZ. - 16' SIDEWALK
S616	2	6'-9"		X	ABUT. DIAPHRAGM - HORIZ. - 6' SIDEWALK
S617	2	16'-9"		X	ABUT. DIAPHRAGM - HORIZ. - 16' SIDEWALK
S418	164	3'-7"	X	X	SIDEWALK - VERT.
S419	82	3'-9"	X	X	SIDEWALK - VERT.
S420	43	40'-10"		X	SIDEWALK - LONGIT.
S421	28	3'-0"		X	SIDEWALK - TRANS. - BOT.
S522	123	7'-10"	X	X	SIDEWALK - TRANS. - TOP
S423	82	4'-1"	X	X	SIDEWALK - VERT.
S424	28	3'-0"	X	X	SIDEWALK - TRANS. - BOT.
S525	123	17'-10"	X	X	SIDEWALK - TRANS. - TOP
S526	104	4'-4"	X	X	VERT. FACE PARAPET - VERT.
S527	104	4'-9"	X	X	VERT. FACE PARAPET - VERT.
S528	16	42'-2"		X	VERT. FACE PARAPET - HORIZ.

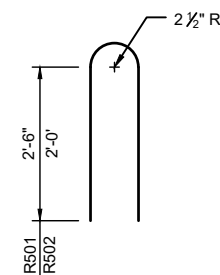




VERT. PARAPET 'A'
BILL OF BARS

BAR MARK	W. ABUT. NO. REQ'D	E. ABUT. NO. REQ'D	LENGTH	BENT	COAT	LOCATION
R501	40	40	5'-9"	X	X	PARAPET - VERT.
R502	40	40	4'-9"	X	X	PARAPET - VERT.
R503	16	16	11'-7"		X	PARAPET - HORIZ.

COATED: 1,260 LBS

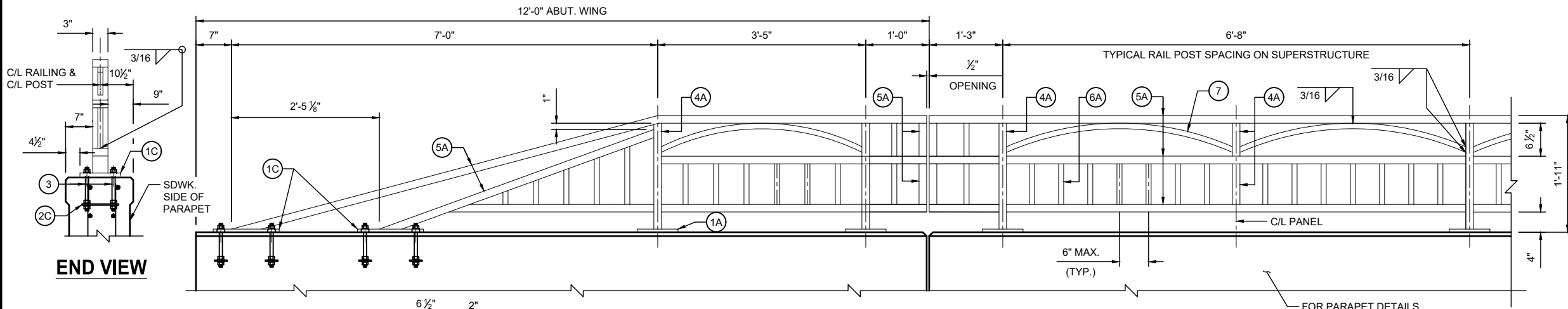


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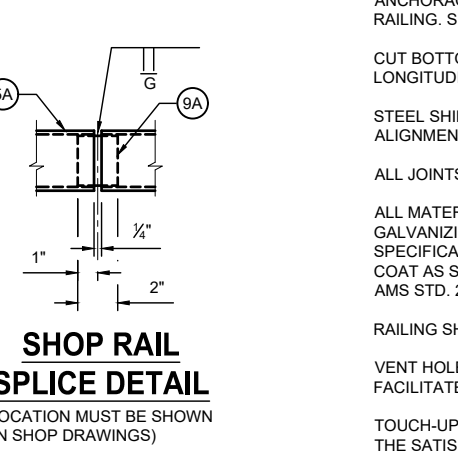
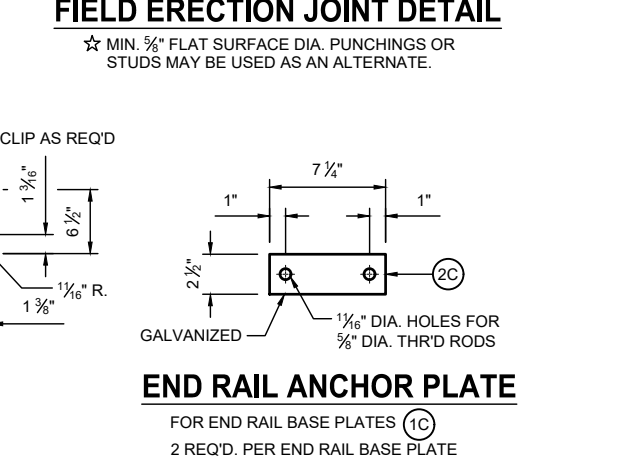
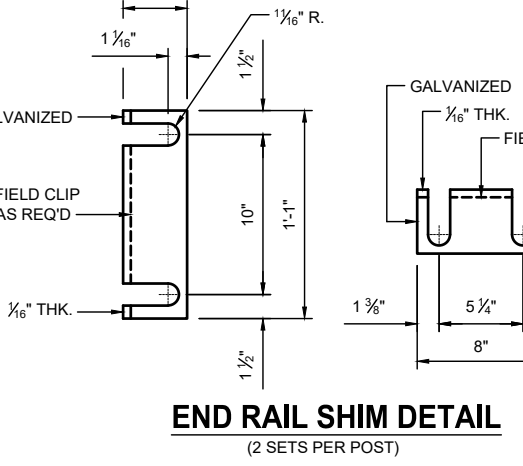
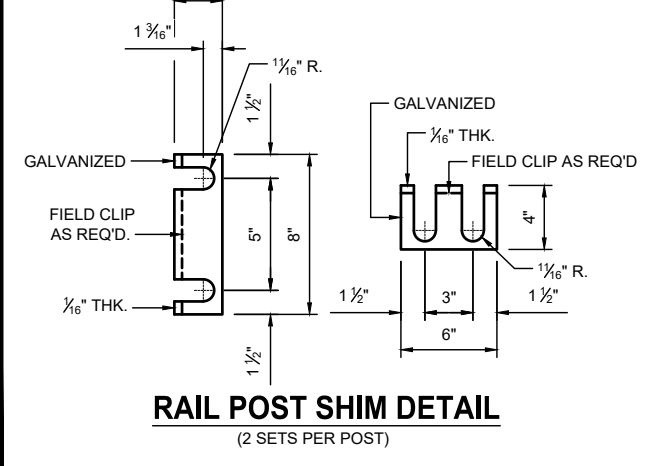
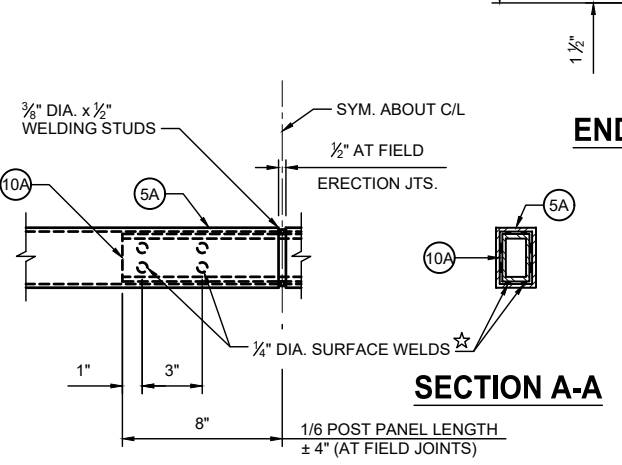
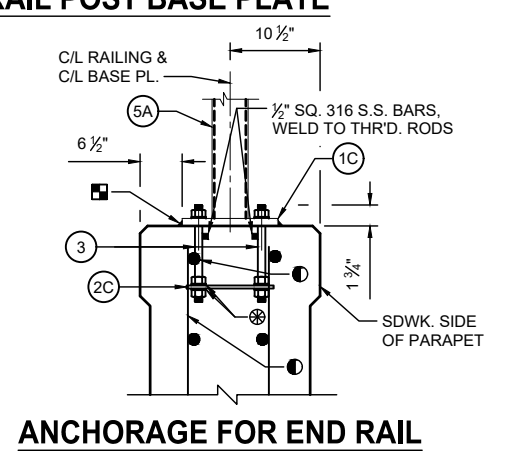
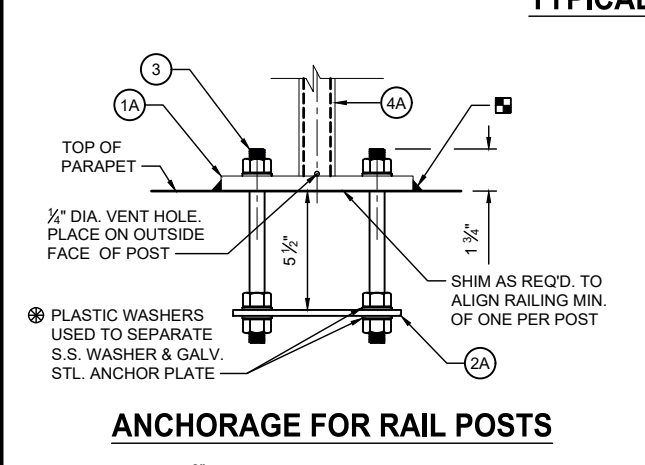
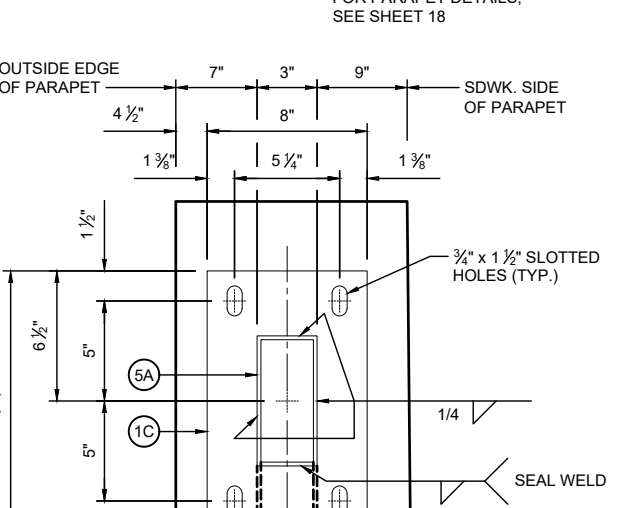
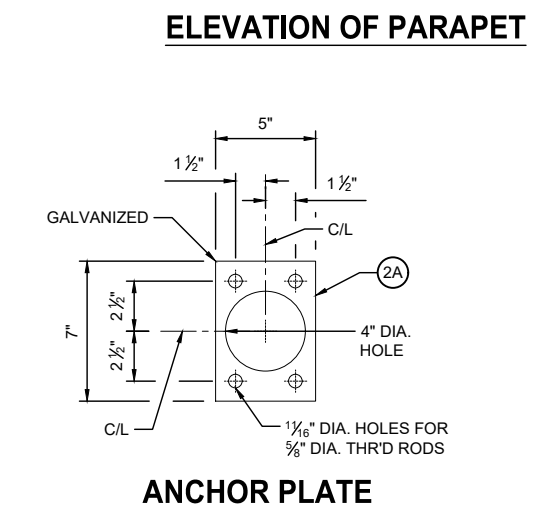
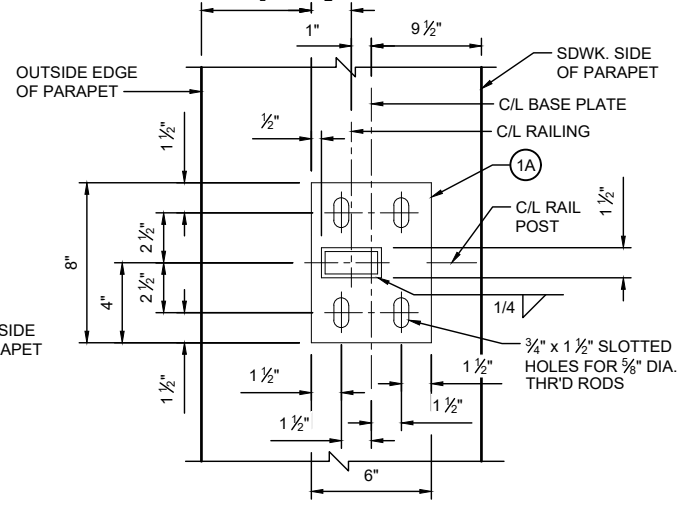
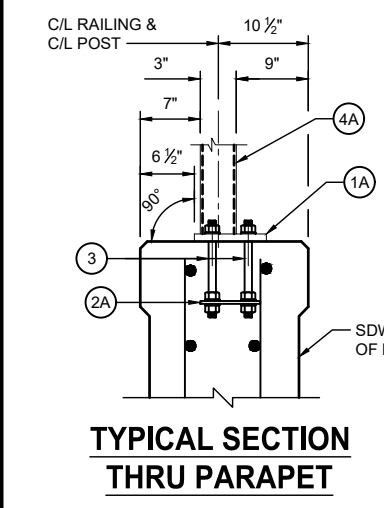
- WING LENGTHS INCLUDE 1/2" FILLER.
- SEE SHEET 17 FOR SUPERSTRUCTURE BARS.

LEGEND

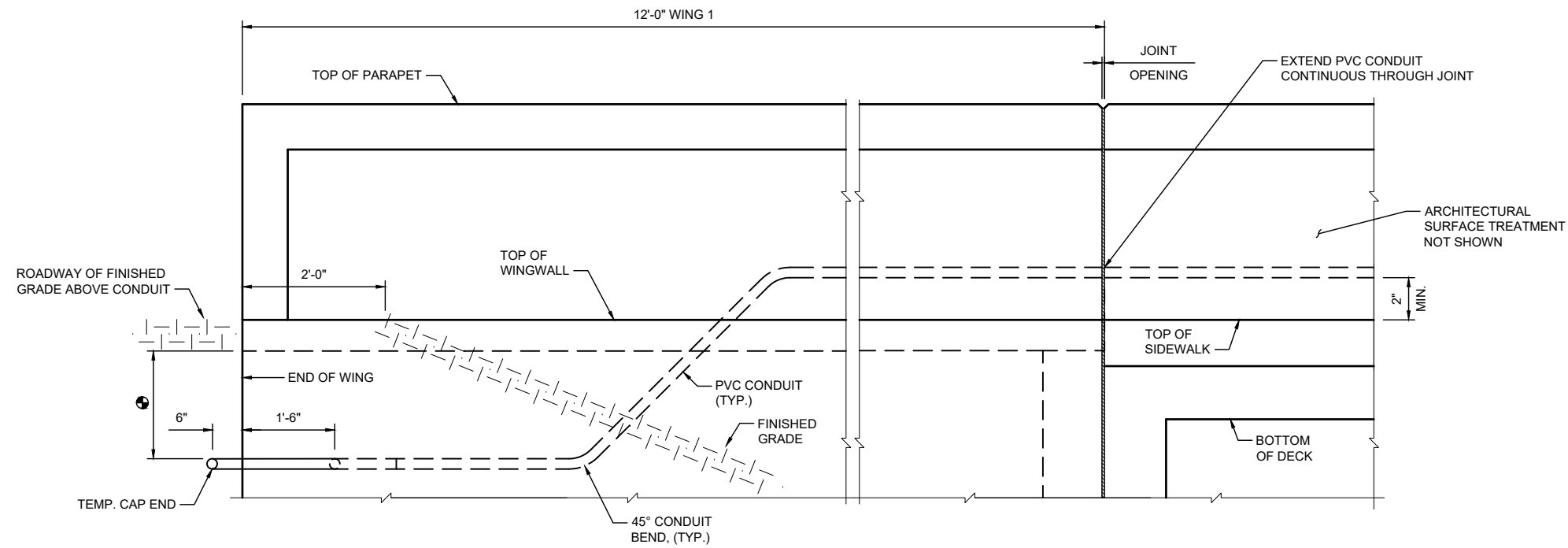
- ☒ HORIZ. CONST. JOINT-STRIKE OFF AS SHOWN AND LEAVE ROUGH.
- ARCHITECTURAL SURFACE TREATMENT AND CONCRETE STAINING. SEE AESTHETIC DETAILS ON SHEET 21.



- ### LEGEND
- 1A PLATE 5/8" x 6" x 8" WITH 3/4" x 1 1/2" SLOTTED HOLES.
 - 1C PLATE 5/8" x 8" x 1'-1" WITH 3/4" x 1 1/2" SLOTTED HOLES.
 - 2A 1/4" x 5" x 7" ANCHOR PLATE WITH 1/16" DIA. HOLES FOR THR'D RODS NO. 3.
 - 2C 1/4" x 2 1/2" x 7 1/4" ANCHOR PLATE WITH 1/16" DIA. HOLES FOR THR'D RODS NO. 3.
 - 3 5/8" DIA. x 9" LONG. TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. ALTERNATE ANCHORAGE: CONCRETE ADHESIVE ANCHORS 5/8-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.
 - 4A STRUCTURAL TUBING 3" x 1 1/2" x 3/16". PLACE VERTICAL. WELD TO NO. 1 & NO. 5.
 - 5A STRUCTURAL TUBING 3" x 1 1/2" x 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
 - 6A BARS 1" x 1" PICKETS. WELD TO NO. 5. (SPACE AT 6" MAX C/L TO C/L SPACING) PLACE VERTICAL.
 - 7 BAR 1" x 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.
 - 9A RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".
 - 10A RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION JTS.)

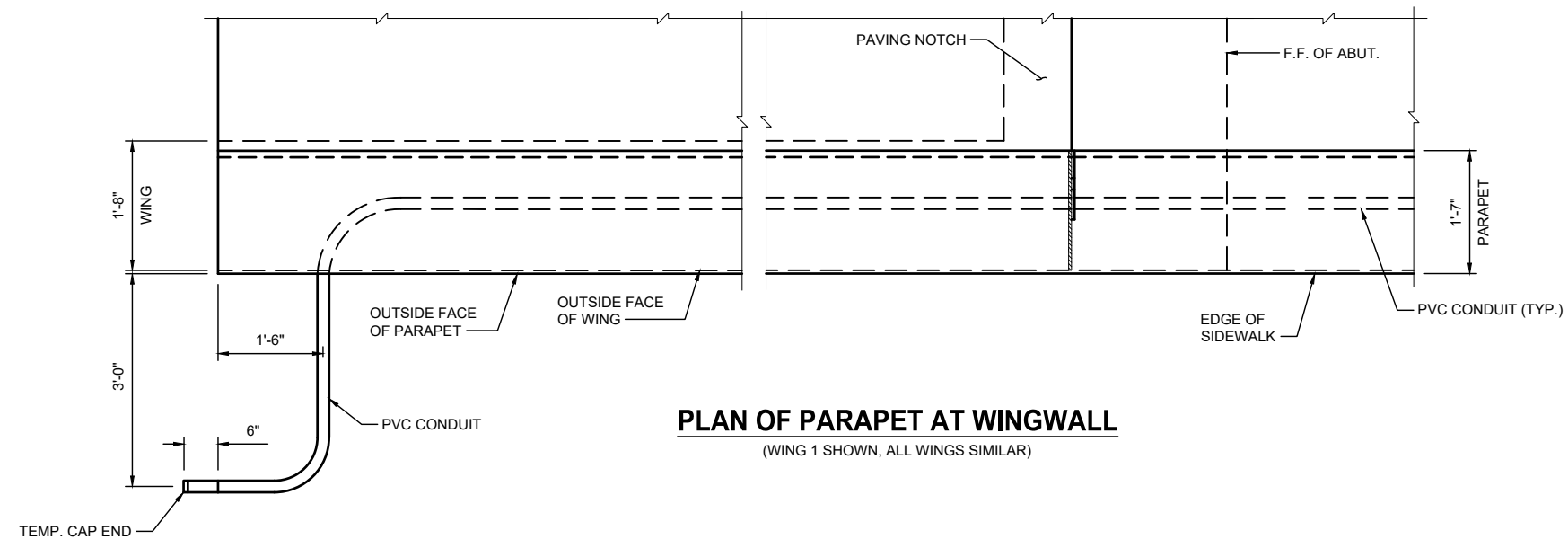


- ### NOTES
- BID ITEM SHALL BE "RAILING STEEL TYPE C3". WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.
 - POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.
 - ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.
 - ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.
 - CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.
 - STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.
 - ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.
 - ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED AMS STD. 27038, BLACK.
 - RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.
 - VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.
 - TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



OUTSIDE ELEVATION OF PARAPET AT WINGWALL

(WING 1 SHOWN, ALL WINGS SIMILAR)



PLAN OF PARAPET AT WINGWALL

(WING 1 SHOWN, ALL WINGS SIMILAR)

NOTES

- CONDUIT SHALL BE EMBEDDED 2" CLEAR.
- USE 2" DIA. RIGID NON-METALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.
- CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.
- CONDUIT BENDS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE.

LEGEND

- 2'-0" MIN. CONDUIT COVER UNDER ROADWAYS, 1'-6" OTHERWISE. CONDUIT COVER SHOULD NOT EXCEED 3'-0".

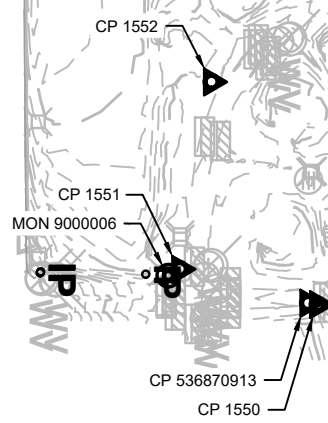
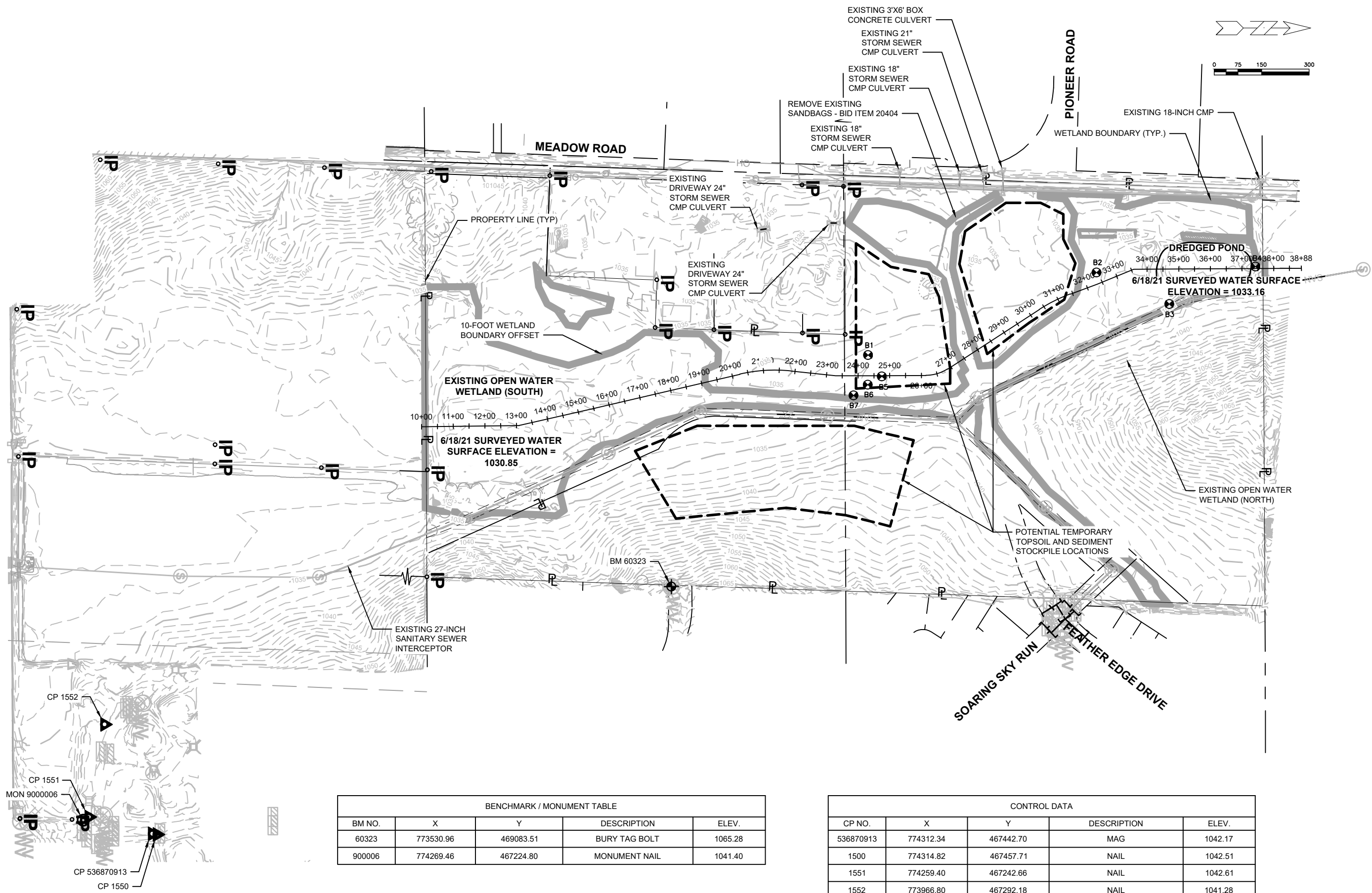
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Scale: 1"=40'
 Designed By: JGG Date: 2/17/2023 1:45 PM
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1020.129
 CITY OF MADISON
 CONTRACT NO.: 9030

B-13-908 CONDUIT DETAILS
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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BENCHMARK / MONUMENT TABLE				
BM NO.	X	Y	DESCRIPTION	ELEV.
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900006	774269.46	467224.80	MONUMENT NAIL	1041.40

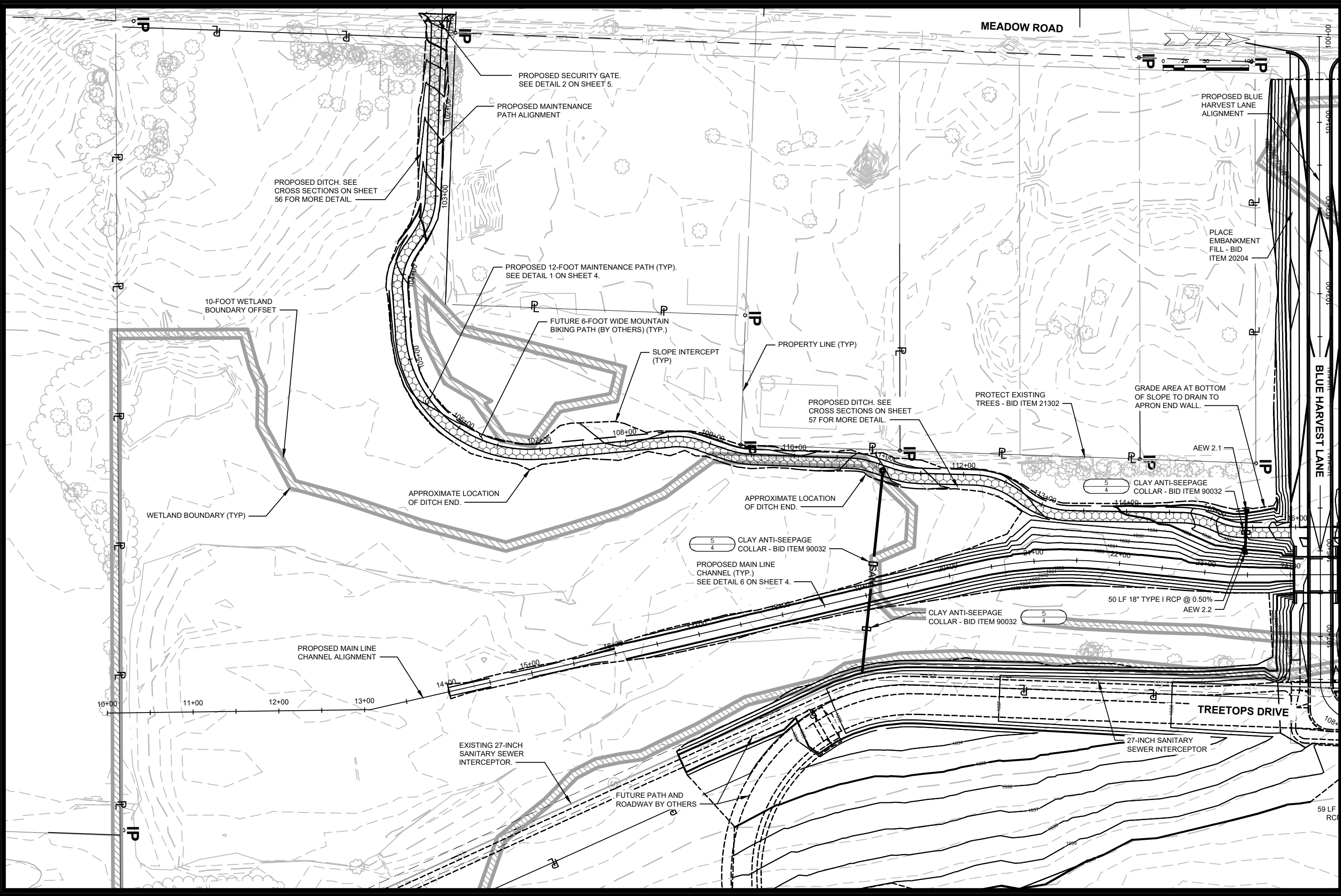
CONTROL DATA				
CP NO.	X	Y	DESCRIPTION	ELEV.
536870913	774312.34	467442.70	MAG	1042.17
1500	774314.82	467457.71	NAIL	1042.51
1551	774259.40	467242.66	NAIL	1042.61
1552	773966.80	467292.18	NAIL	1041.28

MARK	REVISION	DATE	BY
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1020.129
 CITY OF MADISON
 CONTRACT NO.: 9030

EXISTING SURVEY AND CONTROL
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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Designed By: JGG Date: 2/17/2023 1:29 PM

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CITY OF MADISON

9030

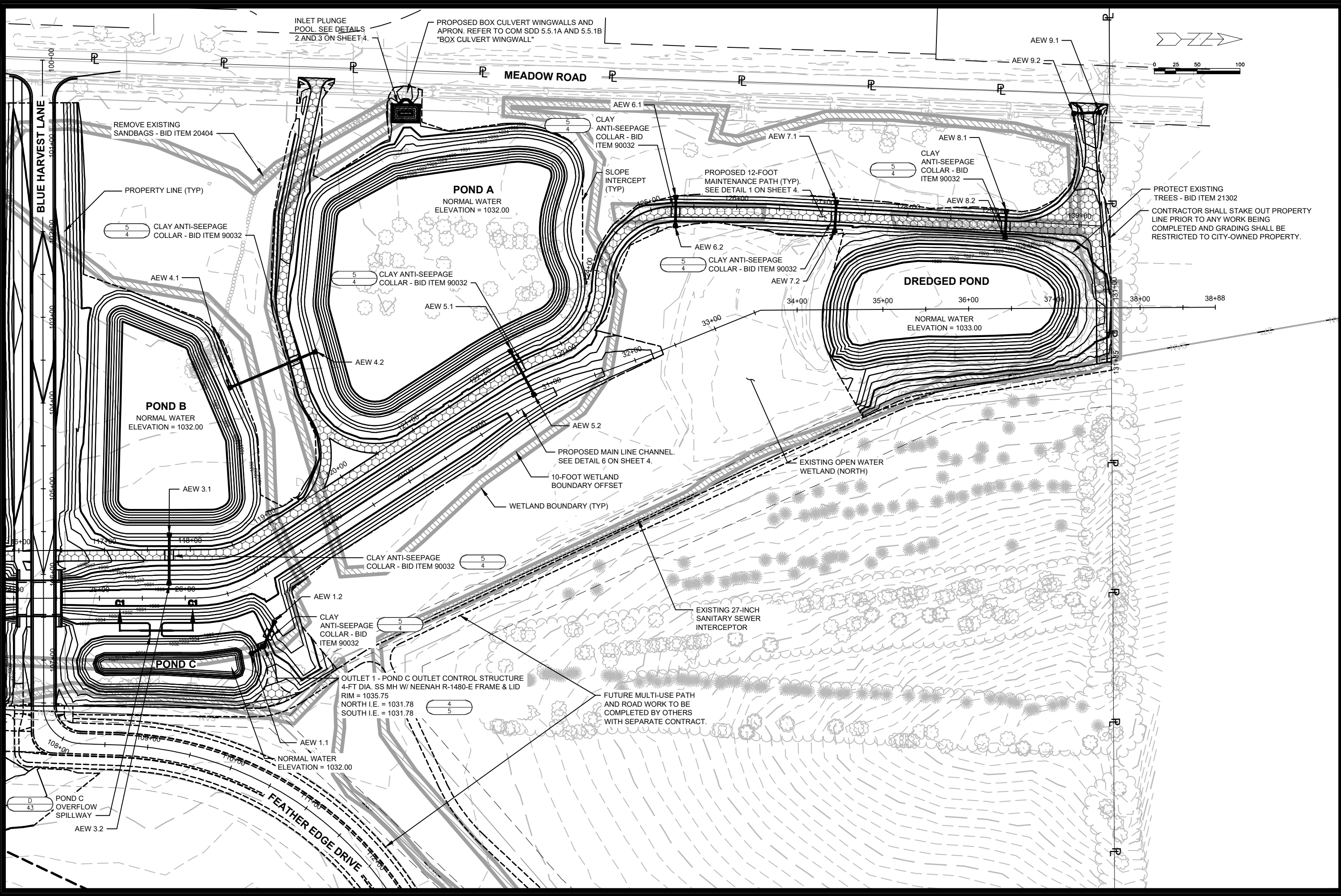
CONTRACT NO.:


GRADING PLAN - 1

LOWER BADGER MILL CREEK FLOOD MITIGATION

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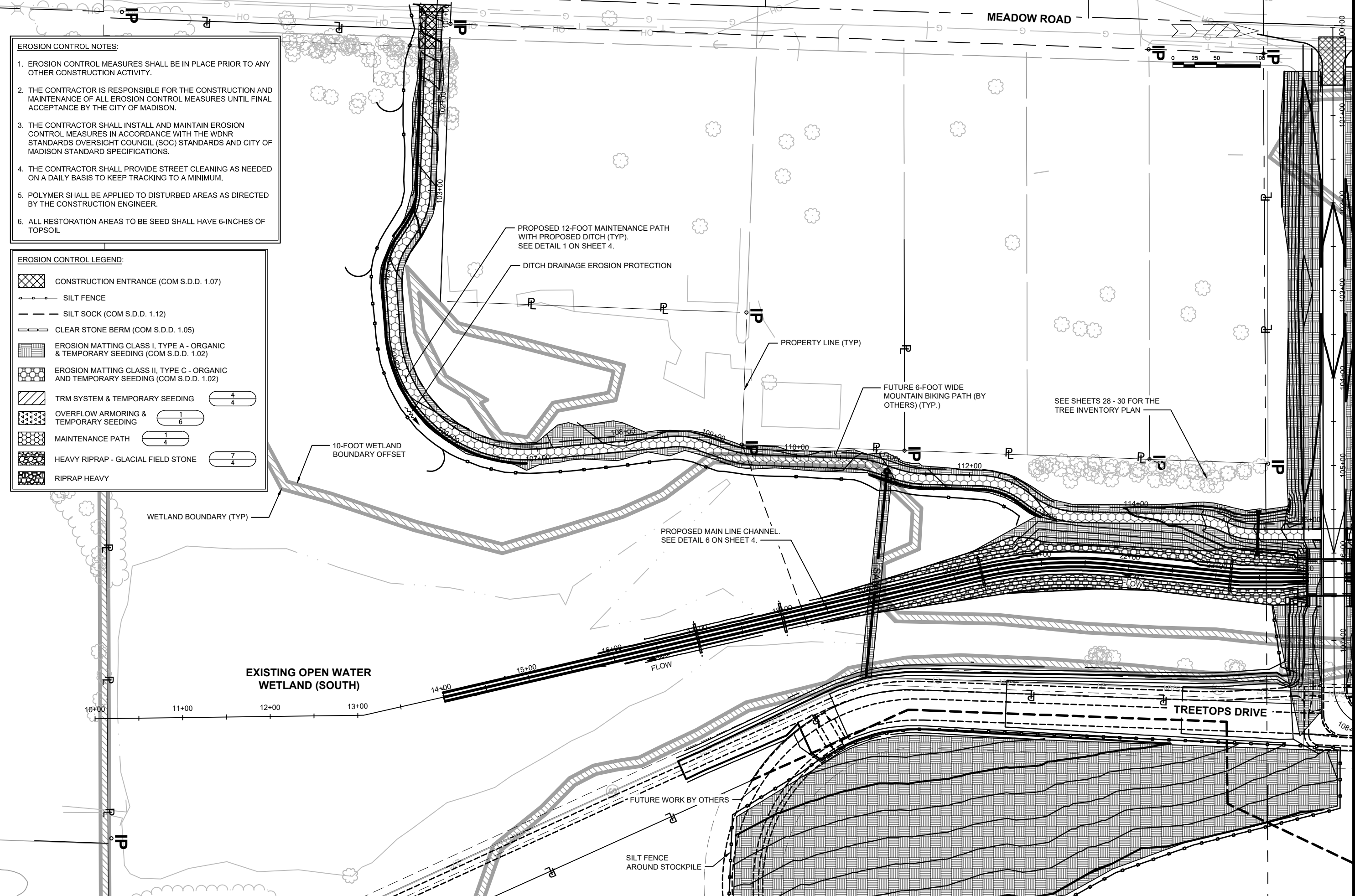


1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129
GRADING PLAN - 2	LOWER BADGER MILL CREEK FLOOD MITIGATION	CITY OF MADISON	CONTRACT NO. 9030	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129
S:\MAD1000-1099\1020\129\Drawings\CAD\Civil 3d\Sheets\Plan\Grading Sheet.dwg									
									
1020.129 25									

- EROSION CONTROL NOTES:**
1. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.
 3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR STANDARDS OVERSIGHT COUNCIL (SOC) STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.
 4. THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.
 5. POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.
 6. ALL RESTORATION AREAS TO BE SEED SHALL HAVE 6-INCHES OF TOPSOIL

EROSION CONTROL LEGEND:

- CONSTRUCTION ENTRANCE (COM S.D.D. 1.07)
- SILT FENCE
- SILT SOCK (COM S.D.D. 1.12)
- CLEAR STONE BERM (COM S.D.D. 1.05)
- EROSION MATTING CLASS I, TYPE A - ORGANIC & TEMPORARY SEEDING (COM S.D.D. 1.02)
- EROSION MATTING CLASS II, TYPE C - ORGANIC AND TEMPORARY SEEDING (COM S.D.D. 1.02)
- TRM SYSTEM & TEMPORARY SEEDING 4
4
- OVERFLOW ARMORING & TEMPORARY SEEDING 1
6
- MAINTENANCE PATH 1
4
- HEAVY RIPRAP - GLACIAL FIELD STONE 7
4
- RIPRAP HEAVY

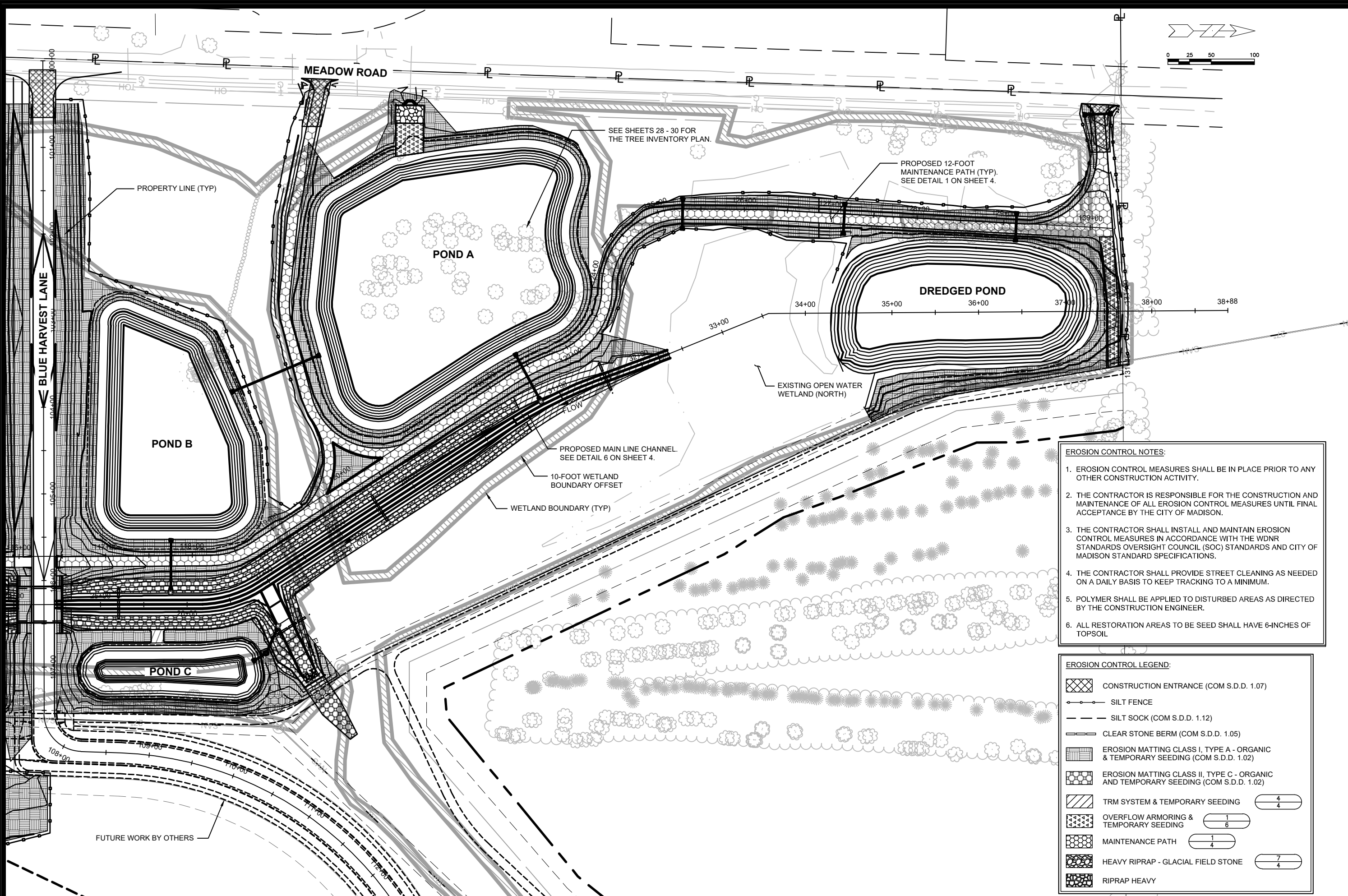


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1020.129
 CITY OF MADISON
 CONTRACT NO.: 9030

EROSION CONTROL AND RESTORATION PLAN - 1
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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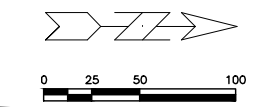


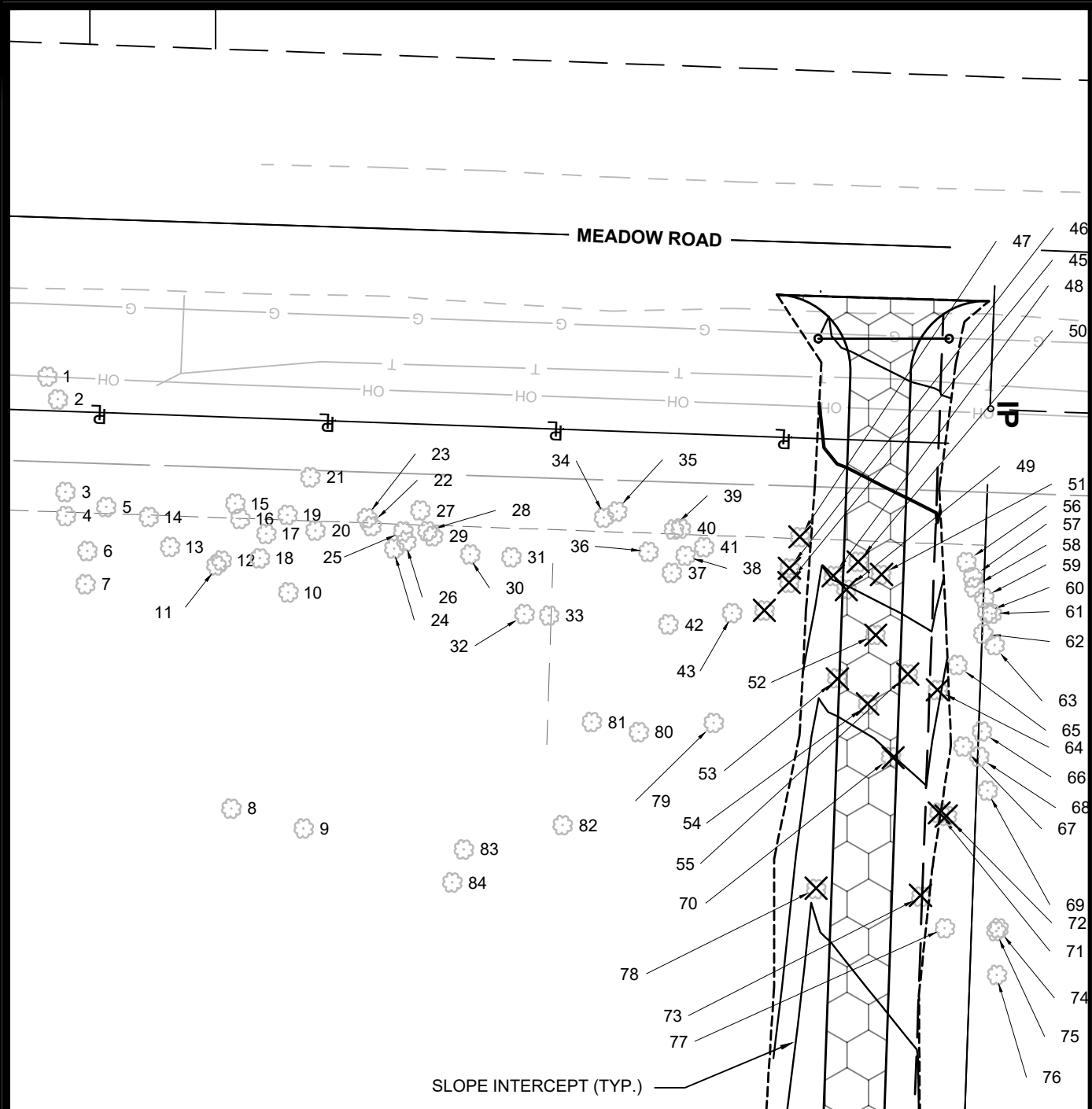


- EROSION CONTROL NOTES:**
1. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.
 3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR STANDARDS OVERSIGHT COUNCIL (SOC) STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.
 4. THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.
 5. POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.
 6. ALL RESTORATION AREAS TO BE SEED SHALL HAVE 6-INCHES OF TOPSOIL.

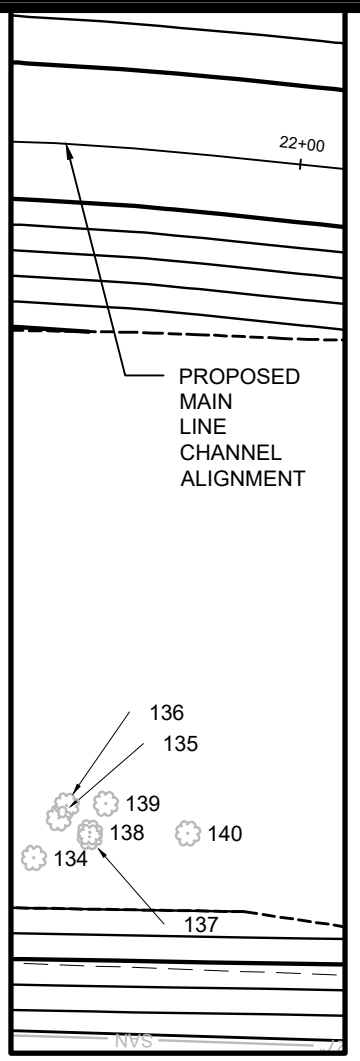
EROSION CONTROL LEGEND:

	CONSTRUCTION ENTRANCE (COM S.D.D. 1.07)	
	SILT FENCE	
	SILT SOCK (COM S.D.D. 1.12)	
	CLEAR STONE BERM (COM S.D.D. 1.05)	
	EROSION MATTING CLASS I, TYPE A - ORGANIC & TEMPORARY SEEDING (COM S.D.D. 1.02)	
	EROSION MATTING CLASS II, TYPE C - ORGANIC AND TEMPORARY SEEDING (COM S.D.D. 1.02)	
	TRM SYSTEM & TEMPORARY SEEDING	$\frac{4}{4}$
	OVERFLOW ARMORING & TEMPORARY SEEDING	$\frac{1}{6}$
	MAINTENANCE PATH	$\frac{1}{4}$
	HEAVY RIPRAP - GLACIAL FIELD STONE	$\frac{7}{4}$
	RIPRAP HEAVY	

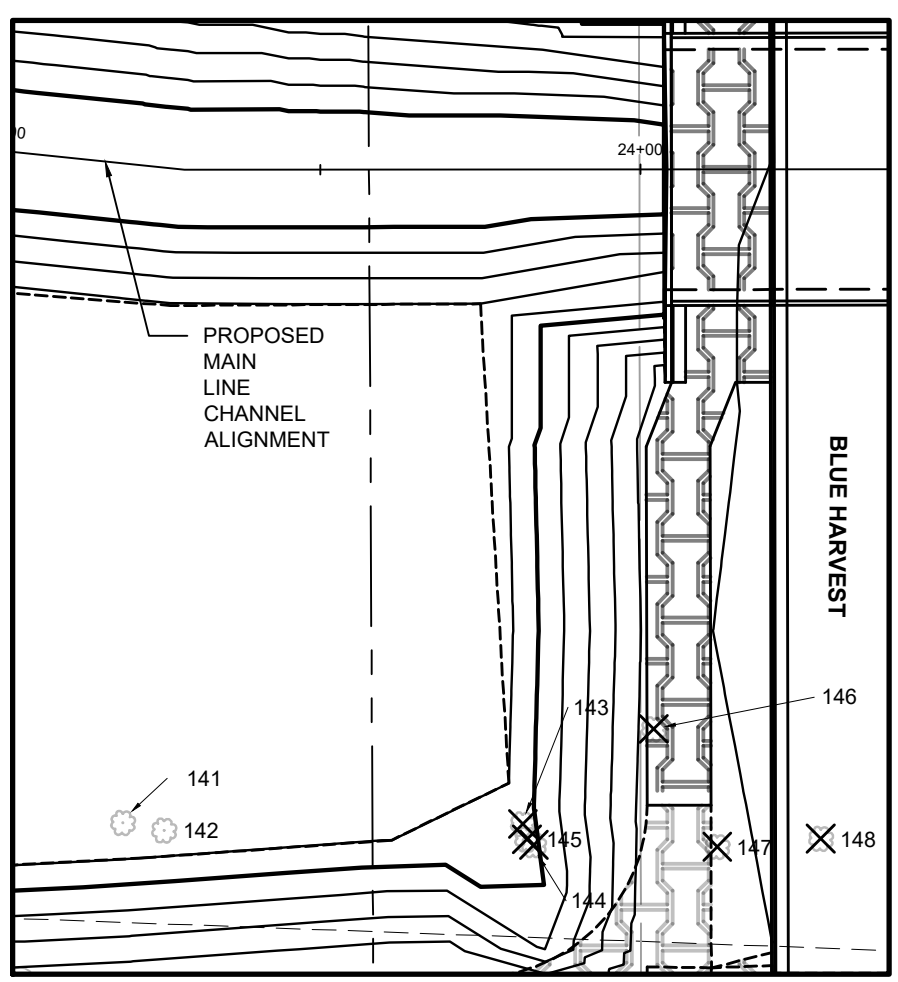




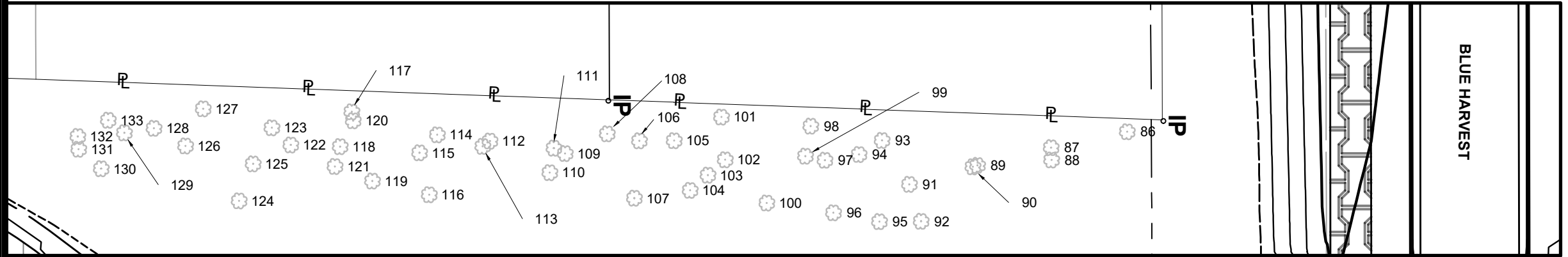
A SOUTH SITE TREE INVENTORY
28 SCALE: 1" = 30'



B SOUTHEAST BLUE HARVEST
28 SCALE: 1" = 30'

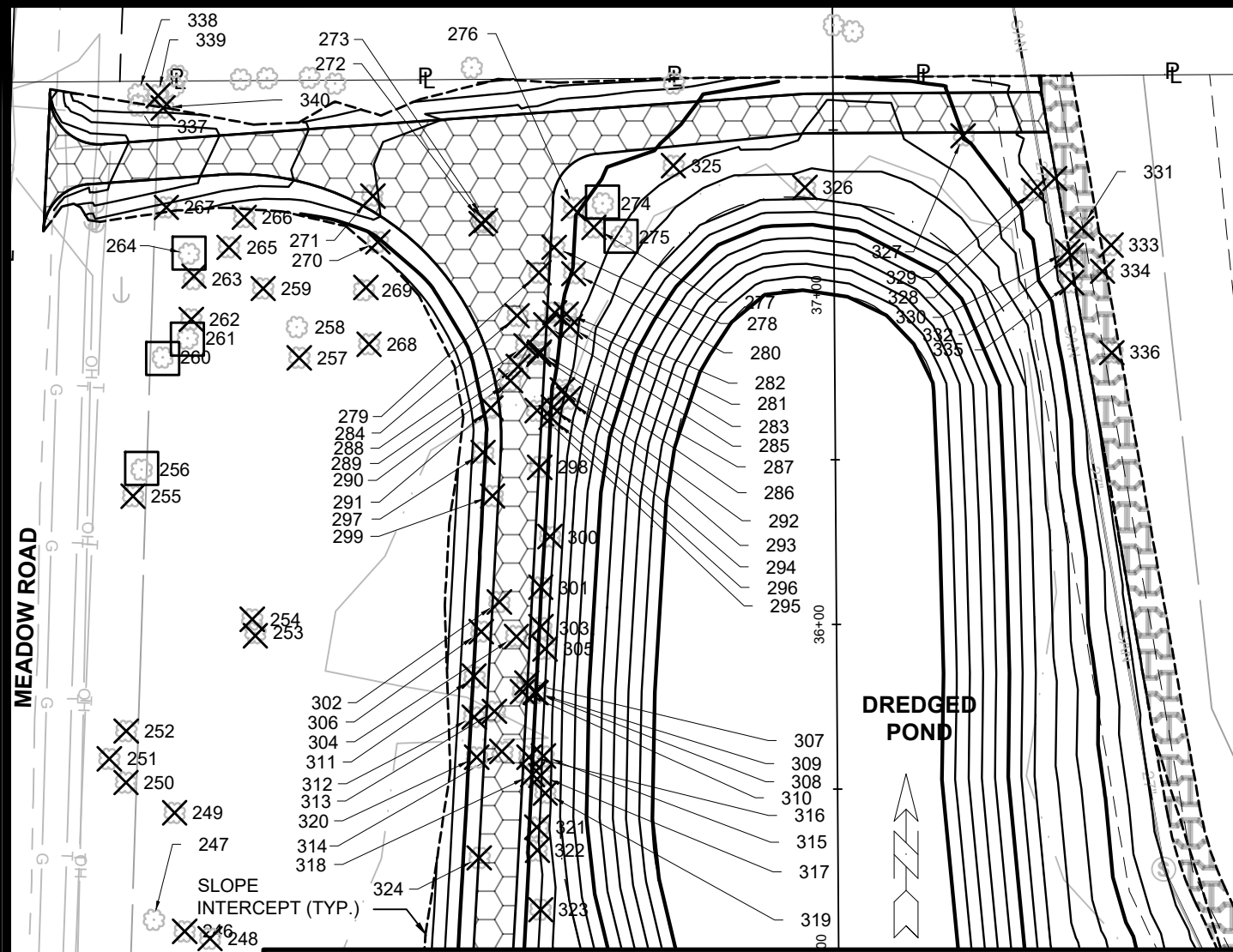


C SOUTHEAST BLUE HARVEST
28 SCALE: 1" = 30'

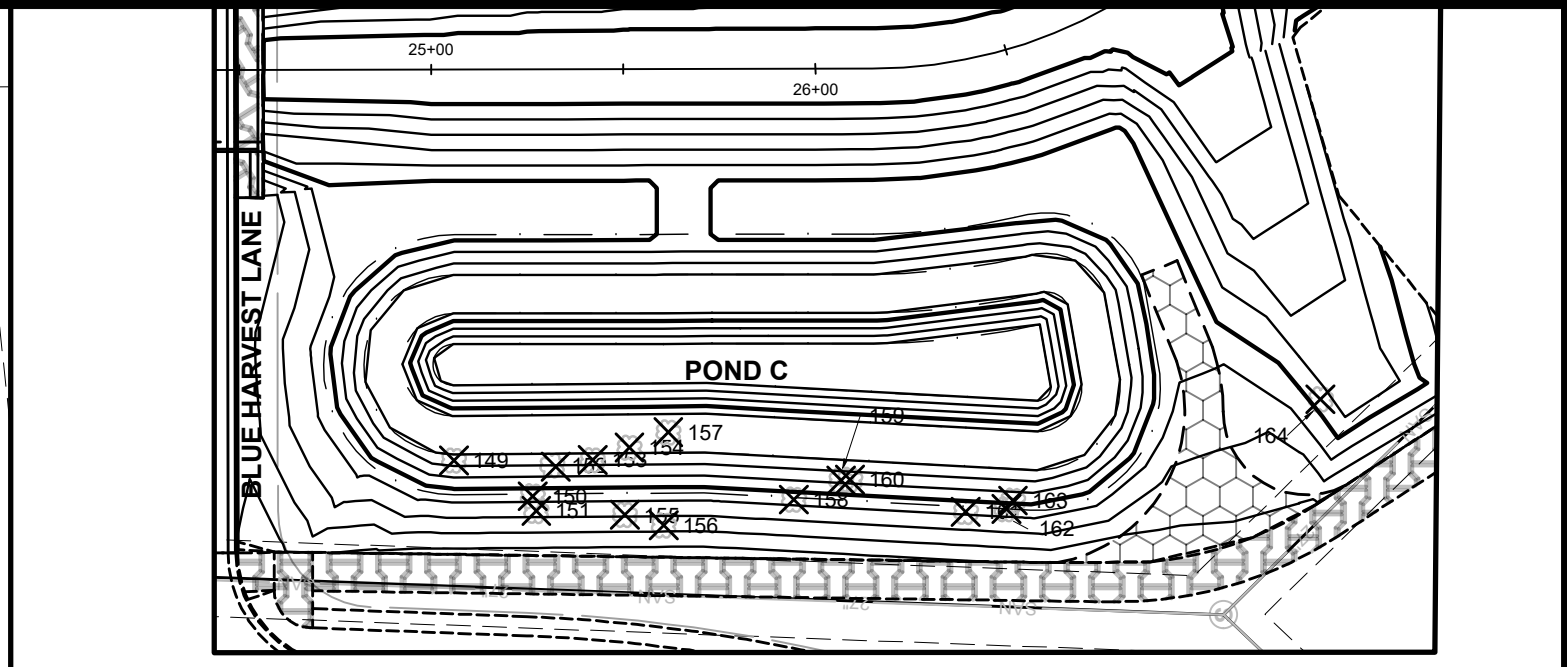


D BLUE HARVEST AND BASIN C TREE INVENTORY
28 SCALE: 1" = 30'

1020.129	1020.129	1020.129	1020.129	1020.129
TREE INVENTORY PLAN - 1	CITY OF MADISON	REVISION	DATE	BY
LOWER BADGER MILL CREEK FLOOD MITIGATION	9030	1020.129	2/7/2023 1:30 PM	1020.129
S:\MAD1000-1099\1020\129\Drawings\CAD\Civil 3d\Sheets\PlanTree Inventory.dwg				
1020.129	28			



A NORTH SITE TREE INVENTORY
 29 SCALE: 1" = 30'



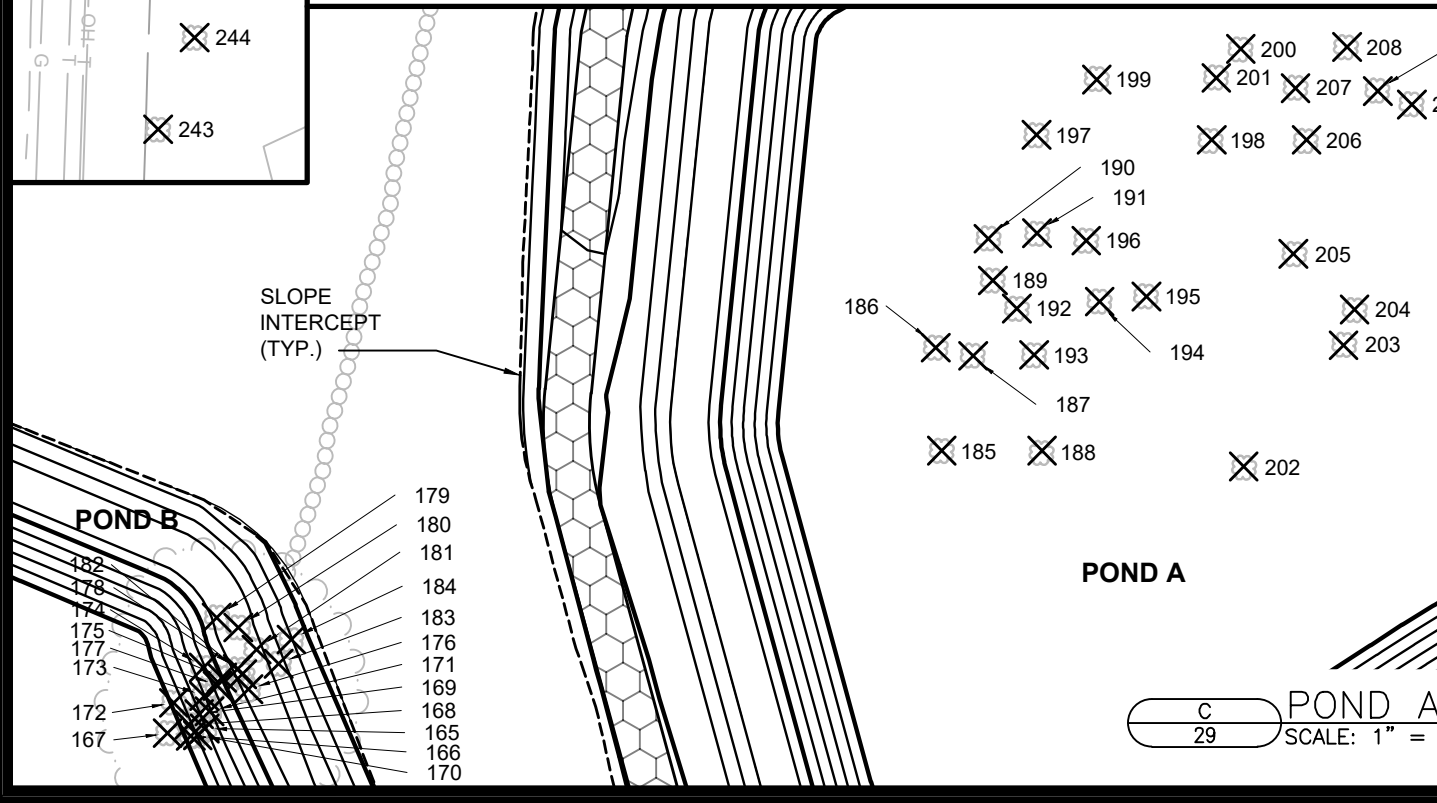
B POND C TREE INVENTORY
 29 SCALE: 1" = 30'

LEGEND

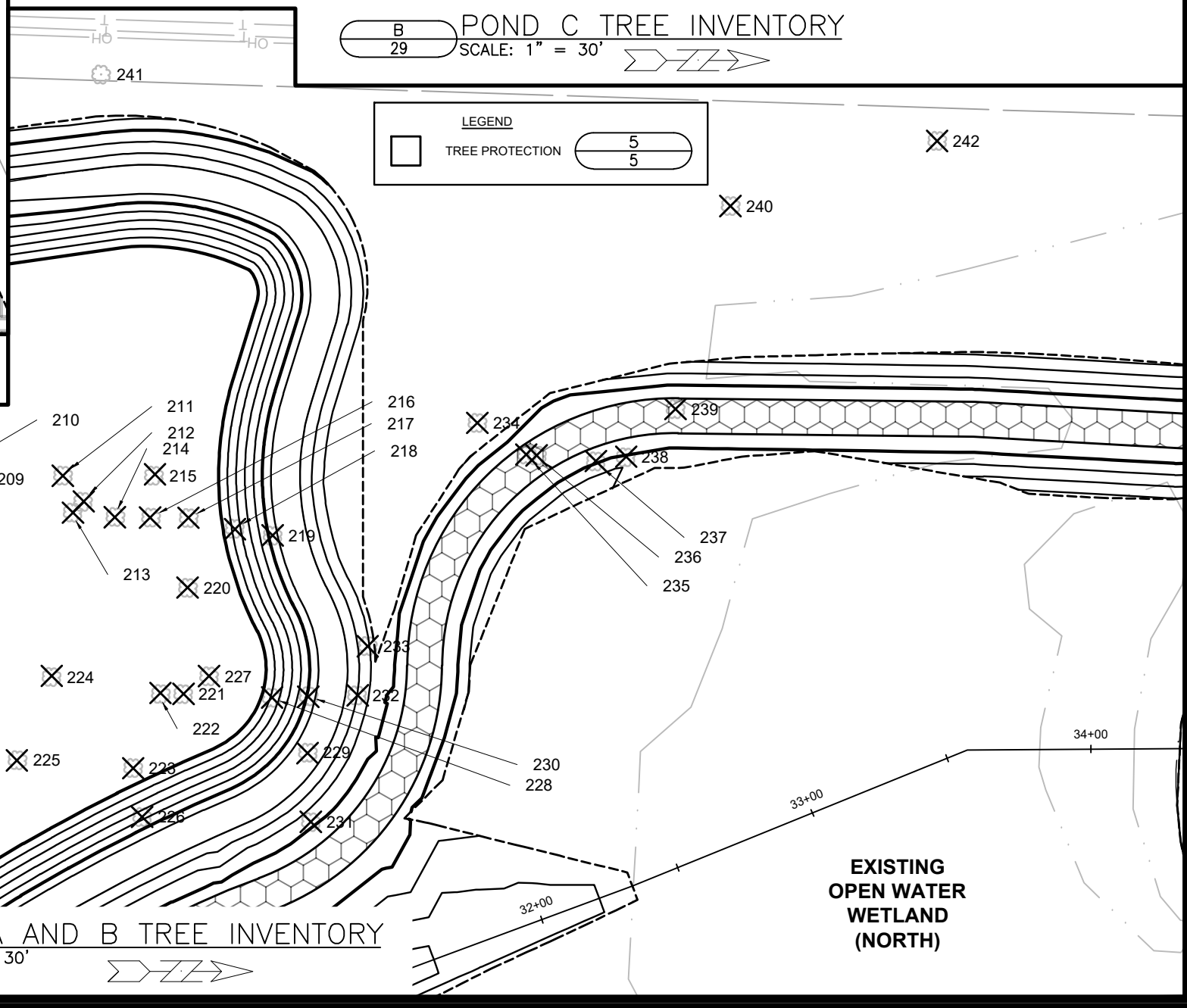
□ TREE PROTECTION

○ 5

○ 5



C POND A AND B TREE INVENTORY
 29 SCALE: 1" = 30'



MEADOW ROAD

1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129
CITY OF MADISON	CITY OF MADISON	CITY OF MADISON	CITY OF MADISON	CITY OF MADISON	CITY OF MADISON	CITY OF MADISON	CITY OF MADISON	CITY OF MADISON	CITY OF MADISON
LOWER BADGER MILL CREEK FLOOD MITIGATION	LOWER BADGER MILL CREEK FLOOD MITIGATION	LOWER BADGER MILL CREEK FLOOD MITIGATION	LOWER BADGER MILL CREEK FLOOD MITIGATION	LOWER BADGER MILL CREEK FLOOD MITIGATION	LOWER BADGER MILL CREEK FLOOD MITIGATION	LOWER BADGER MILL CREEK FLOOD MITIGATION	LOWER BADGER MILL CREEK FLOOD MITIGATION	LOWER BADGER MILL CREEK FLOOD MITIGATION	LOWER BADGER MILL CREEK FLOOD MITIGATION
CONTRACT NO: 9030	CONTRACT NO: 9030	CONTRACT NO: 9030	CONTRACT NO: 9030	CONTRACT NO: 9030	CONTRACT NO: 9030	CONTRACT NO: 9030	CONTRACT NO: 9030	CONTRACT NO: 9030	CONTRACT NO: 9030
DESIGNED BY: JGG	DESIGNED BY: JGG	DESIGNED BY: JGG	DESIGNED BY: JGG	DESIGNED BY: JGG	DESIGNED BY: JGG	DESIGNED BY: JGG	DESIGNED BY: JGG	DESIGNED BY: JGG	DESIGNED BY: JGG
DATE: 2/17/2023	DATE: 2/17/2023	DATE: 2/17/2023	DATE: 2/17/2023	DATE: 2/17/2023	DATE: 2/17/2023	DATE: 2/17/2023	DATE: 2/17/2023	DATE: 2/17/2023	DATE: 2/17/2023
REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION
BY	BY	BY	BY	BY	BY	BY	BY	BY	BY
1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129	1020.129
29	29	29	29	29	29	29	29	29	29



Trees To Be Removed											
PLAN TREE INVENTORY			PLAN TREE INVENTORY			PLAN TREE INVENTORY			PLAN TREE INVENTORY		
Tree ID	Type	Diameter (in)	Tree ID	Type	Diameter (in)	Tree ID	Type	Diameter (in)	Tree ID	Type	Diameter (in)
44	BLACKLOCAST	12.5	190	SPRUCE	6	259	GREENASH	5.5	329	BLACKLOCAST	6.5
45	BLACKLOCAST	7.5	191	SPRUCE	7	262	GREENASH	7	330	BLACKLOCAST	5.5
46	BLACKLOCAST	8	192	SPRUCE	7	263	GREENASH	6.5	331	BLACKLOCAST	6
47	BLACKLOCAST	10	193	SPRUCE	10	265	GREENASH	4	332	BLACKLOCAST	5
48	BLACKLOCAST	3.5	194	SPRUCE	5	266	AMERICANELM	10	333	BLACKLOCAST	7
49	BLACKLOCAST	6	195	SPRUCE	7	267	MULBERRY	4	334	BLACKLOCAST	5.5
50	BLACKLOCAST	19.5	196	SPRUCE	5	268	GREENASH	4	335	BLACKLOCAST	4
51	BLACKLOCAST	6	197	SPRUCE	6.5	269	BIGTOOTHASPEN	7	336	BLACKLOCAST	6
52	BLACKLOCAST	9	198	SPRUCE	5	270	GREENASH	6	339	BUCKTHORN	3.5
53	BLACKLOCAST	4.5	199	SPRUCE	9	271	AMERICANELM	4.5	340	BUCKTHORN	4.5
54	BLACKLOCAST	8	200	CRABAPPLE	4.5	272	GREENASH	6			
55	BLACKLOCAST	9.8	201	SPRUCE	12	273	GREENASH	4.5			
64	BLACKLOCAST	11	202	SPRUCE	16	276	BOXELDER	6.5			
70	BLACKLOCAST	5.5	203	SPRUCE	16	277	GREENASH	7.5			
71	BLACKLOCAST	8	204	SPRUCE	16	278	BOXELDER	5			
72	BLACKLOCAST	9.5	205	SPRUCE	8	279	AMERICANELM	5.5			
73	BLACKLOCAST	6	206	SPRUCE	6.2	280	BUCKTHORN	4			
78	BLACKLOCAST	4	207	SPRUCE	10	281	SILVERMAPLE	5			
143	BASSWOOD	3.5	208	BLACKCHERRY	8	282	SILVERMAPLE	6			
144	CRABAPPLE	4	209	SPRUCE	7	283	SILVERMAPLE	5			
145	CRABAPPLE	4.5	210	SPRUCE	8	284	BLACKLOCAST	3.5			
146	BOXELDER	6.5	211	SPRUCE	9	285	BIGTOOTHASPEN	13			
147	CRABAPPLE	3.5	212	BLACKCHERRY	4	286	BIGTOOTHASPEN	14			
148	BLACKCHERRY	10	213	SPRUCE	7.5	287	AMERICANELM	4			
149	HAWTHORN	5	214	SPRUCE	6	288	SILVERMAPLE	4			
150	BUCKTHORN	6	215	SPRUCE	9.5	289	AMERICANELM	4.5			
151	BOXELDER	5	216	SPRUCE	9	290	BOXELDER	3.5			
152	BIGTOOTHASPEN	3.5	217	SPRUCE	7	291	GREENASH	6.5			
153	BIGTOOTHASPEN	12	218	SPRUCE	8	292	AMERICANELM	4			
154	BIGTOOTHASPEN	6.5	219	SPRUCE	10	293	SILVERMAPLE	6.5			
155	BLACKCHERRY	5.5	220	SPRUCE	13	294	BLACKLOCAST	8.5			
156	BOXELDER	5	221	SPRUCE	14	295	BLACKLOCAST	12			
157	BIGTOOTHASPEN	7.5	222	SPRUCE	15	296	BLACKLOCAST	8			
158	BLACKCHERRY	12	223	SPRUCE	10	297	BIGTOOTHASPEN	4			
159	HAWTHORN	3.5	224	SPRUCE	17	298	BIGTOOTHASPEN	20			
160	HAWTHORN	3.5	225	SPRUCE	10	299	BIGTOOTHASPEN	12			
161	HAWTHORN	4	226	SPRUCE	10	300	BLACKLOCAST	8.5			
162	HAWTHORN	4	227	SPRUCE	13	301	BLACKLOCAST	26			
163	HAWTHORN	5	228	SPRUCE	0	302	BIGTOOTHASPEN	12.5			
164	AMERICANELM	4	229	SPRUCE	9	303	AMERICANELM	4			
165	BASSWOOD	11.5	230	SPRUCE	6	304	AMERICANELM	9.5			
166	BASSWOOD	5.5	231	SPRUCE	8	305	BLACKLOCAST	3.5			
167	BASSWOOD	4.5	232	SPRUCE	8	306	BLACKLOCAST	6			
168	BASSWOOD	4.5	233	SPRUCE	7	307	BLACKLOCAST	10			
169	BASSWOOD	5.5	234	GREENASH	6	308	BLACKLOCAST	4.5			
170	BASSWOOD	4.5	235	BIGTOOTHASPEN	11	309	BLACKLOCAST	7			
171	BASSWOOD	6	236	BIGTOOTHASPEN	10	310	BLACKLOCAST	8.5			
172	BASSWOOD	6	237	BIGTOOTHASPEN	6	311	SILVERMAPLE	6			
173	BASSWOOD	7	238	BIGTOOTHASPEN	7	312	BLACKLOCAST	6.5			
174	MULBERRY	5	239	BIGTOOTHASPEN	10.5	313	BLACKLOCAST	7			
175	BASSWOOD	3.5	240	GREENASH	4.5	314	BLACKLOCAST	11			
176	AMERICANELM	7	242	GREENASH	8	315	SILVERMAPLE	7			
177	BASSWOOD	7	243	WILLOW	4	316	BLACKLOCAST	11			
178	BASSWOOD	5.5	244	GREENASH	6.5	317	BLACKLOCAST	5.5			
179	BASSWOOD	7	245	SPRUCE	7	318	BLACKLOCAST	7			
180	BASSWOOD	7.5	246	GREENASH	5.5	319	BLACKLOCAST	13			
181	BIGTOOTHASPEN	14.5	248	GREENASH	4	320	BLACKLOCAST	6.5			
182	BASSWOOD	7	249	GREENASH	4.5	321	SILVERMAPLE	5.5			
183	BASSWOOD	4.5	250	AMERICANELM	5.5	322	SILVERMAPLE	4.5			
184	BASSWOOD	12	251	BUCKTHORN	3.5	323	SILVERMAPLE	7			
185	SPRUCE	9	252	AMERICANELM	5	324	BLACKLOCAST	5.5			
186	SPRUCE	8	253	GREENASH	3.5	325	BOXELDER	4			
187	SPRUCE	8.5	254	GREENASH	4.5	326	SILVERMAPLE	6			
188	SPRUCE	5	255	GREENASH	6.5	327	SILVERMAPLE	11			
189	SPRUCE	8	257	GREENASH	6.5	328	BLACKLOCAST	8			

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TREE INVENTORY PLAN - 3
 LOWER BADGER MILL CREEK FLOOD MITIGATION
 CITY OF MADISON
 CONTRACT NO: 9030
 S:\MAD1000-1099\1020129\Drawings\CAD\Civil 3d\Sheets\Plan\Tree Inventory.dwg

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TREE INVENTORY PLAN - 3
 LOWER BADGER MILL CREEK FLOOD MITIGATION
 CITY OF MADISON
 CONTRACT NO: 9030

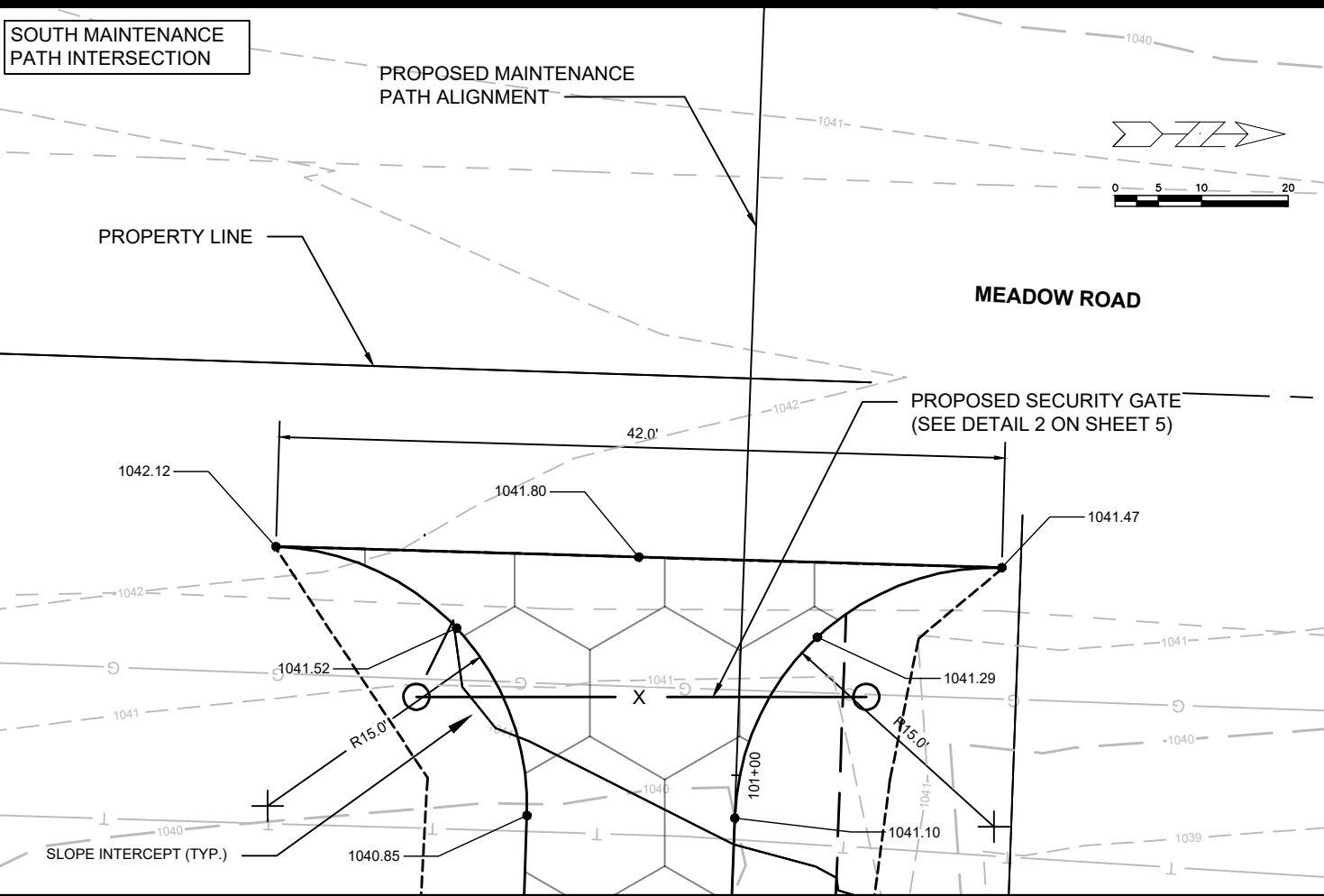
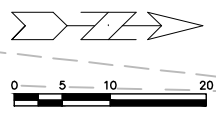
SOUTH MAINTENANCE PATH INTERSECTION

PROPOSED MAINTENANCE PATH ALIGNMENT

PROPERTY LINE

MEADOW ROAD

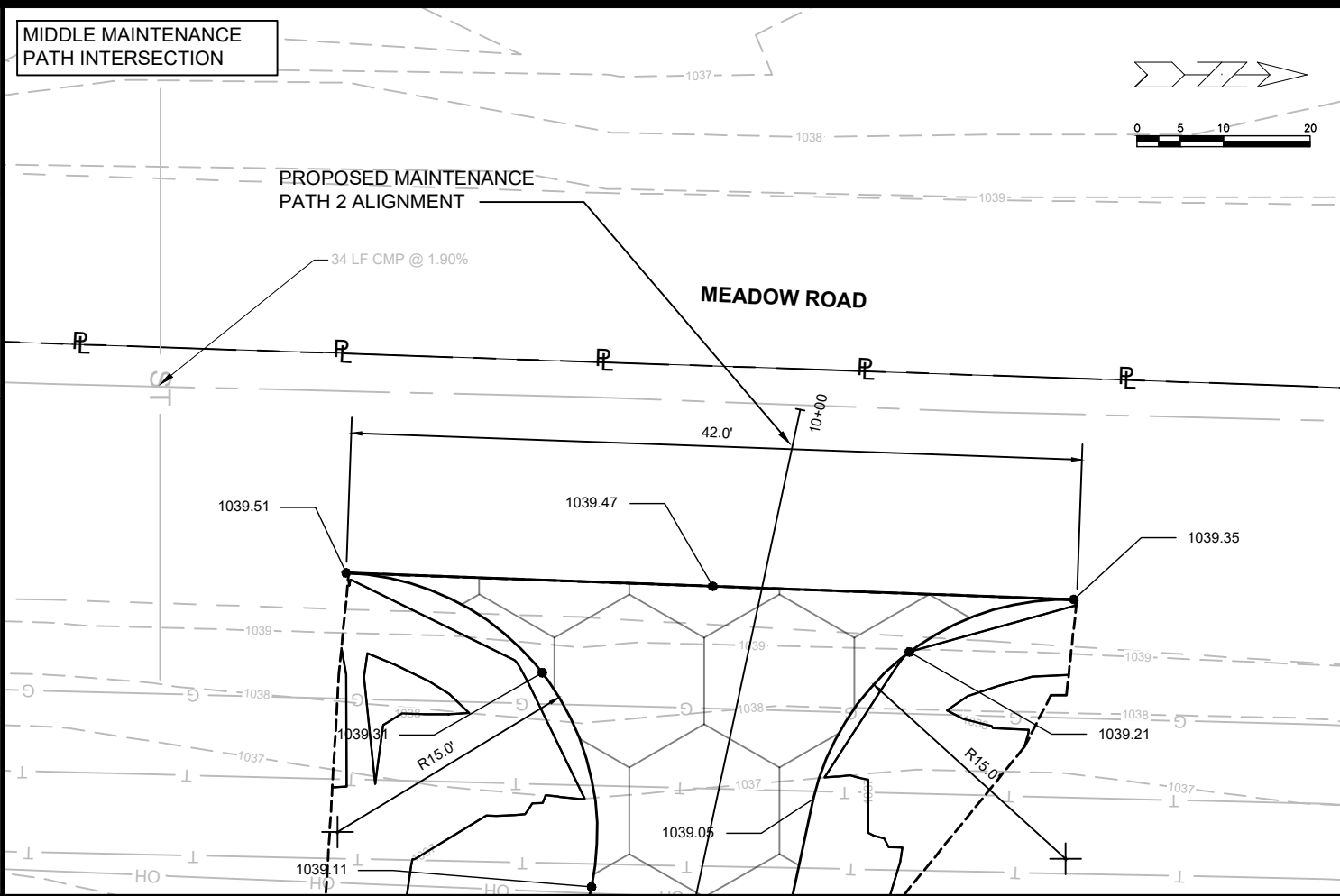
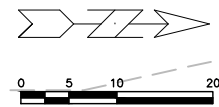
PROPOSED SECURITY GATE
(SEE DETAIL 2 ON SHEET 5)



MIDDLE MAINTENANCE PATH INTERSECTION

PROPOSED MAINTENANCE PATH 2 ALIGNMENT

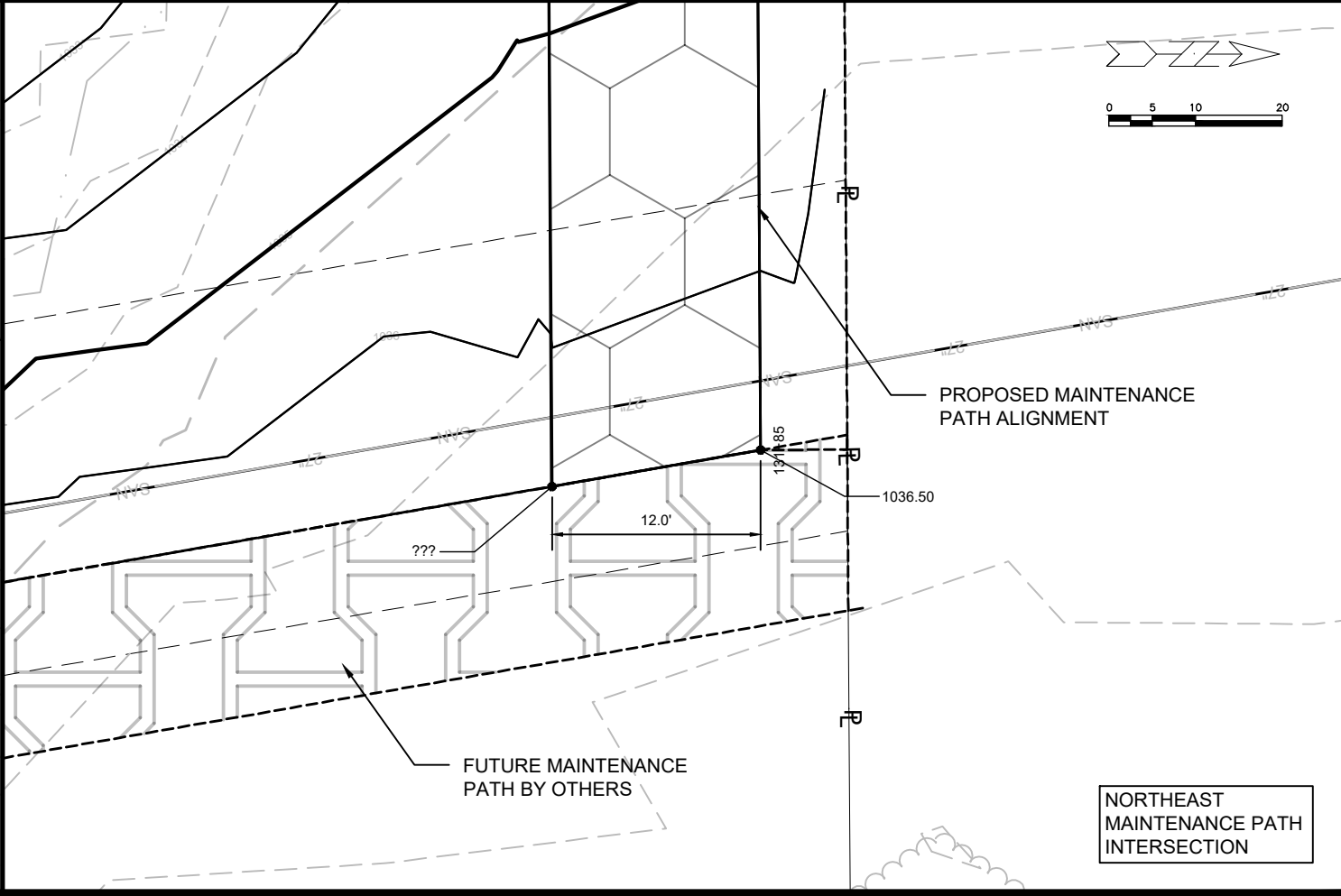
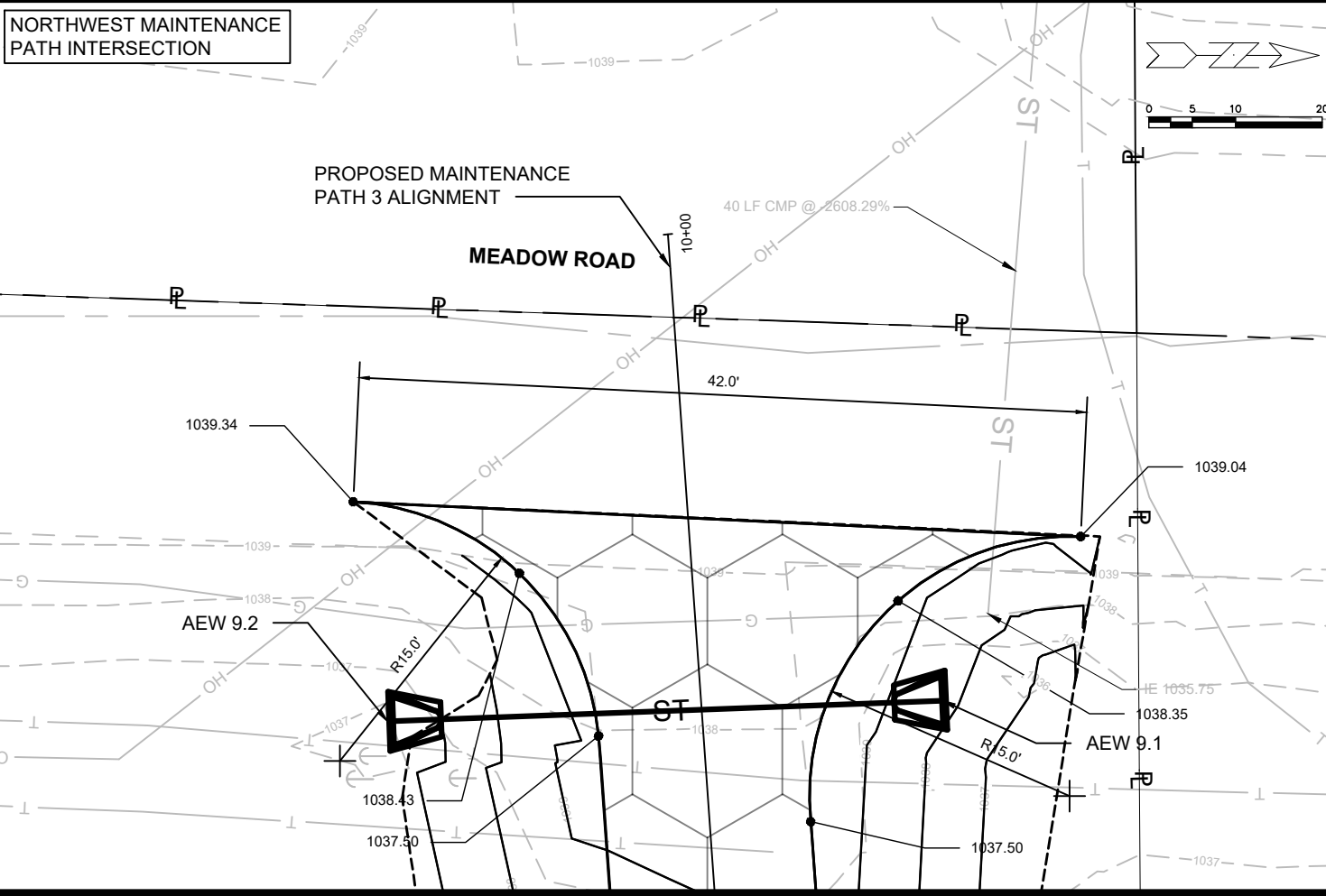
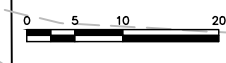
MEADOW ROAD



NORTHWEST MAINTENANCE PATH INTERSECTION

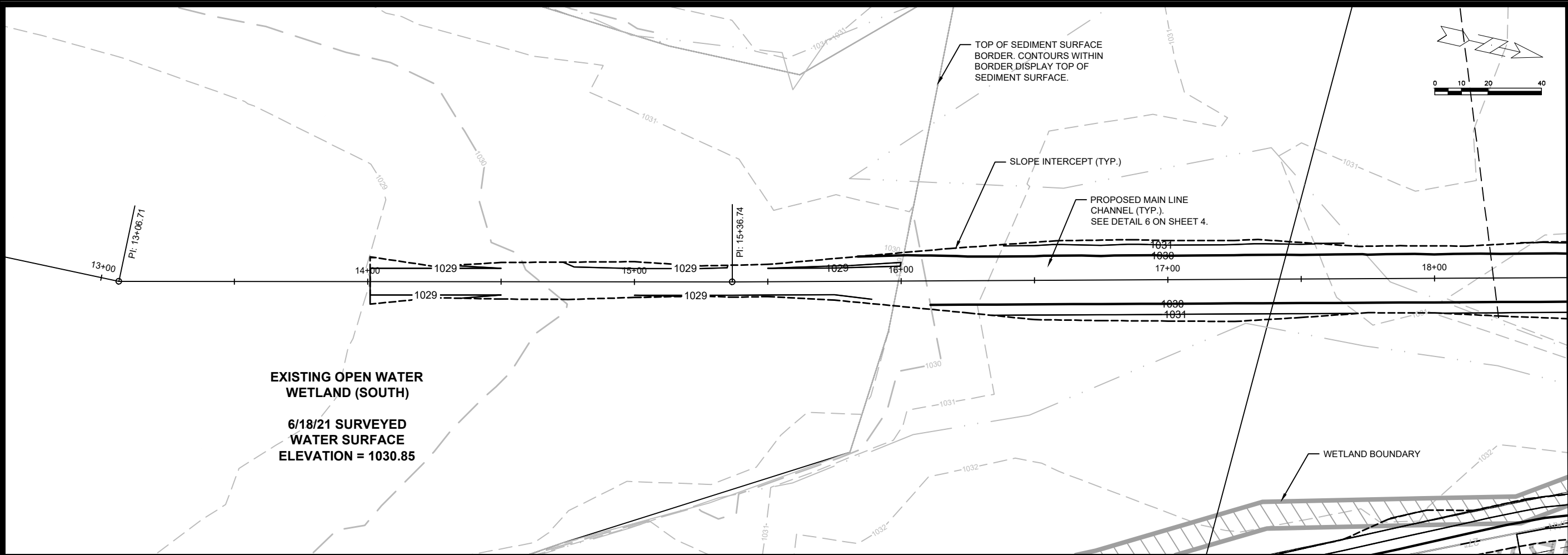
PROPOSED MAINTENANCE PATH 3 ALIGNMENT

MEADOW ROAD

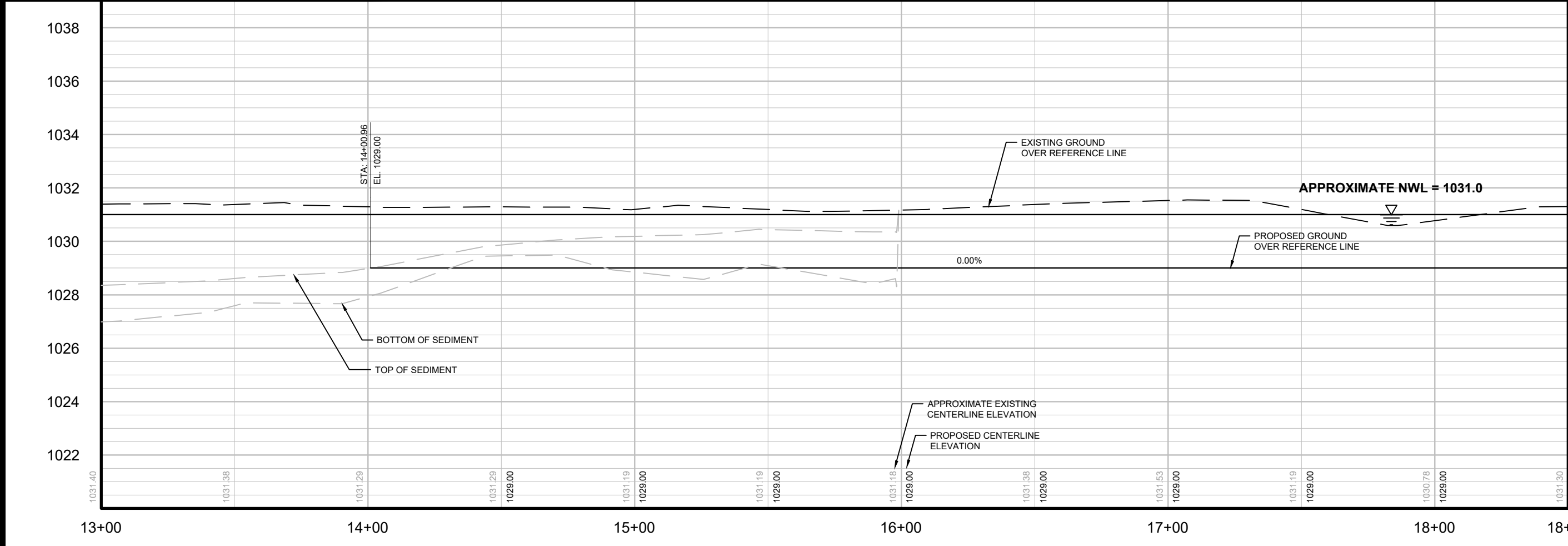


NORTHEAST MAINTENANCE PATH INTERSECTION

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CITY OF MADISON	CITY OF MADISON	CITY OF MADISON	CITY OF MADISON	CITY OF MADISON
9030	9030	9030	9030	9030
CONTRACT NO.:	CONTRACT NO.:	CONTRACT NO.:	CONTRACT NO.:	CONTRACT NO.:
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MATCH LINE 18+50 SEE SHEET 31



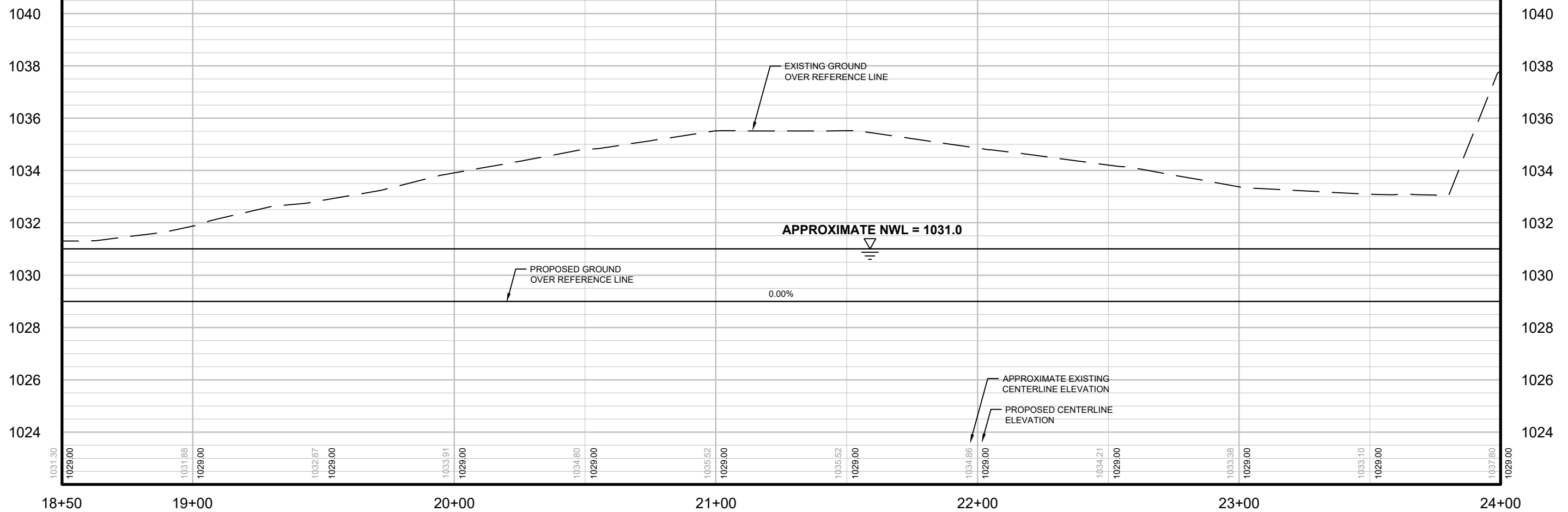
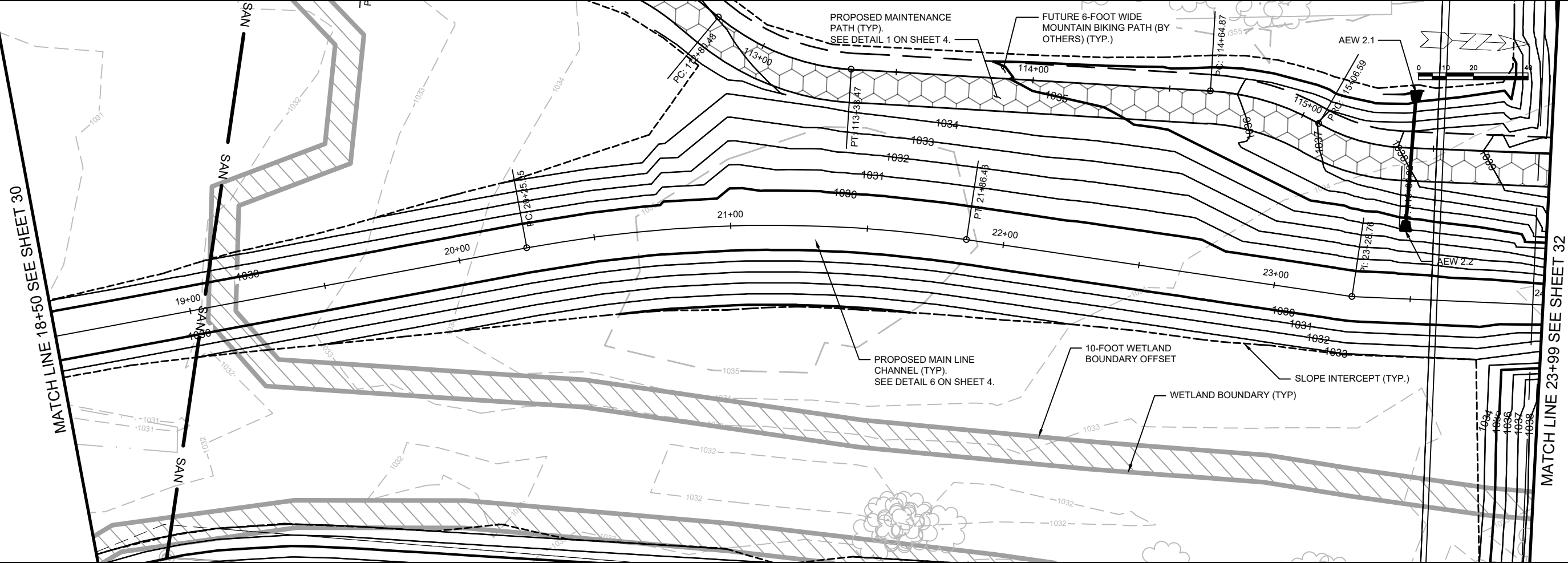
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 CITY OF MADISON
 CONTRACT NO.: 9030

MAIN LINE CHANNEL PLAN AND PROFILE - 1
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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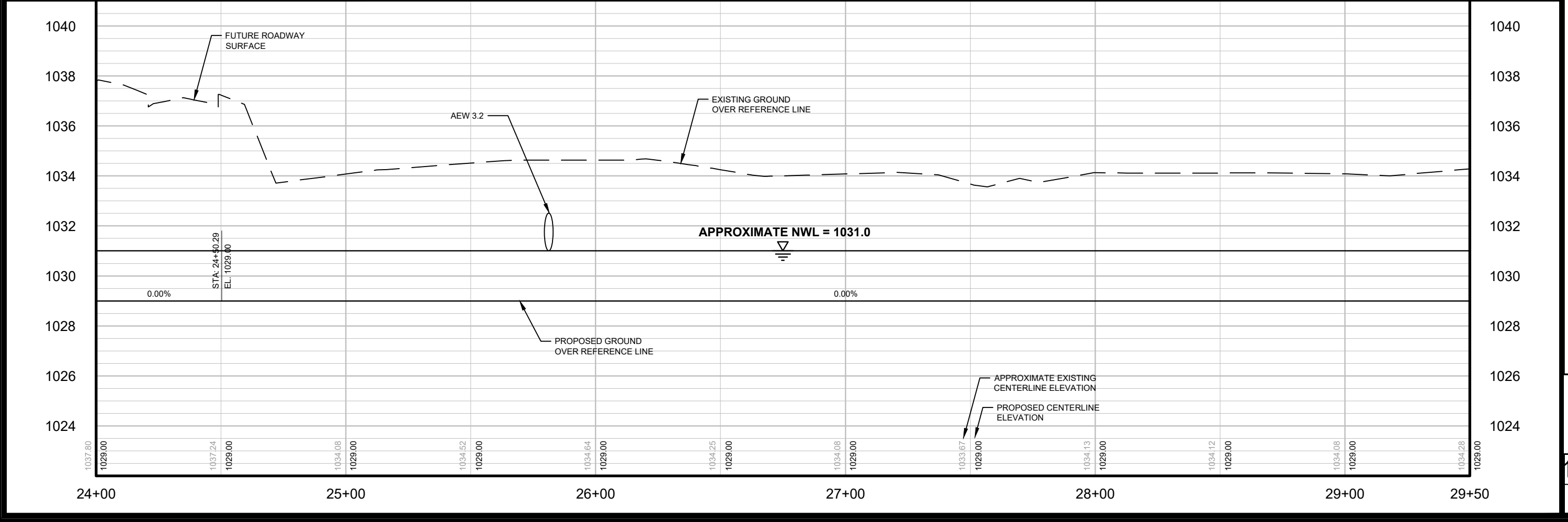
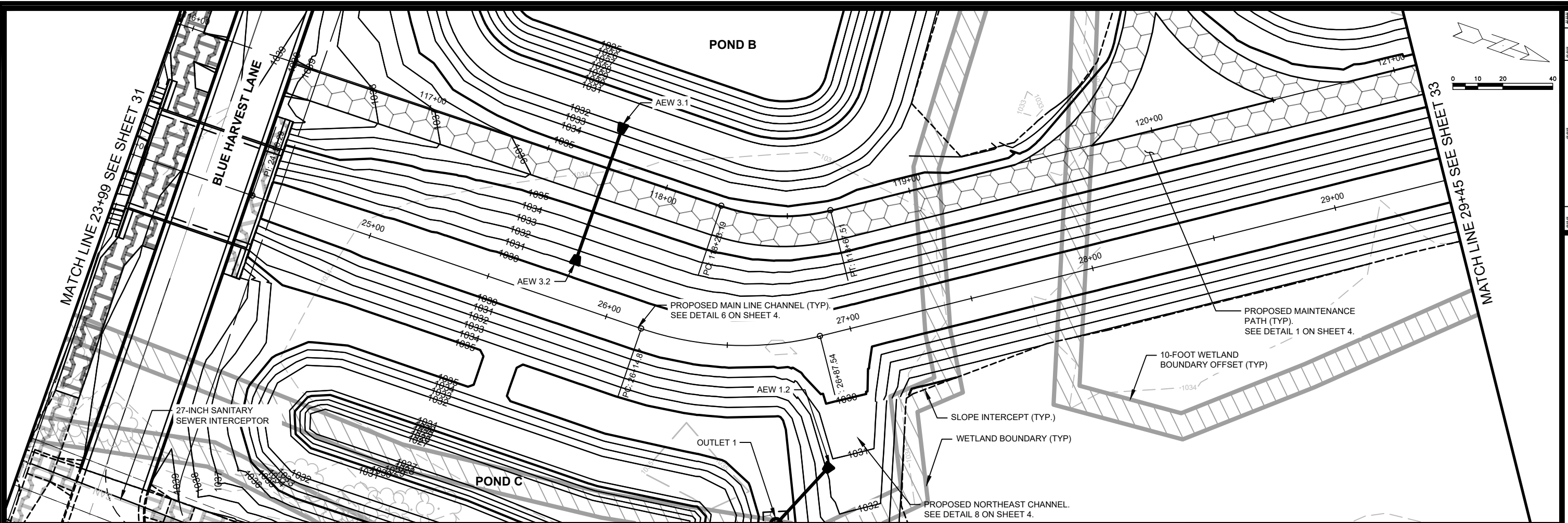
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CITY OF MADISON
9030
 CONTRACT NO:

MAIN LINE CHANNEL PLAN AND PROFILE - 2
LOWER BADGER MILL CREEK FLOOD MITIGATION
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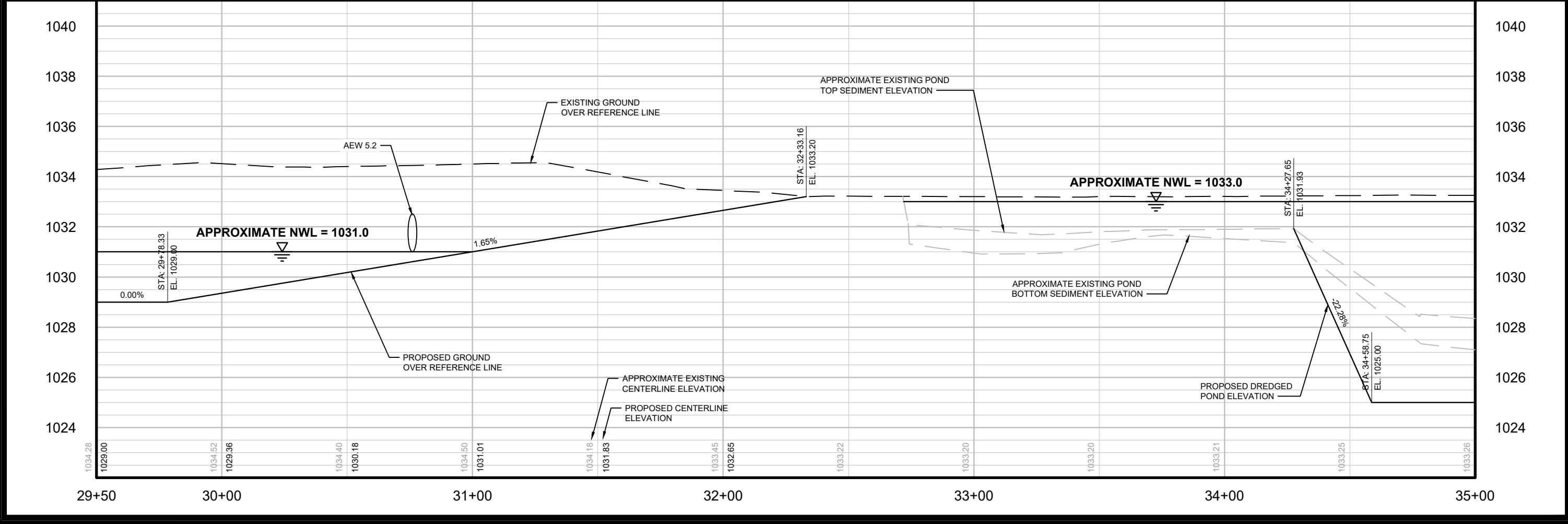
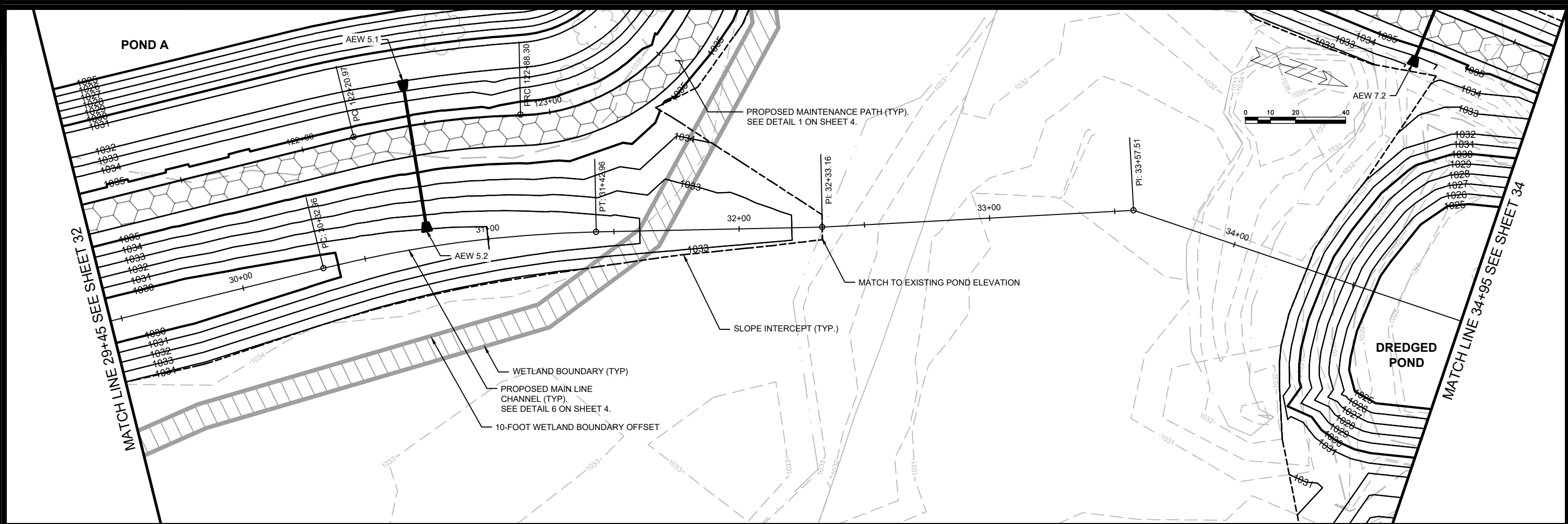


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1020.129
CITY OF MADISON
CONTRACT NO.: 9030

MAIN LINE CHANNEL PLAN AND PROFILE - 3
LOWER BADGER MILL CREEK FLOOD MITIGATION
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CITY OF MADISON

CONTRACT NO: 9030

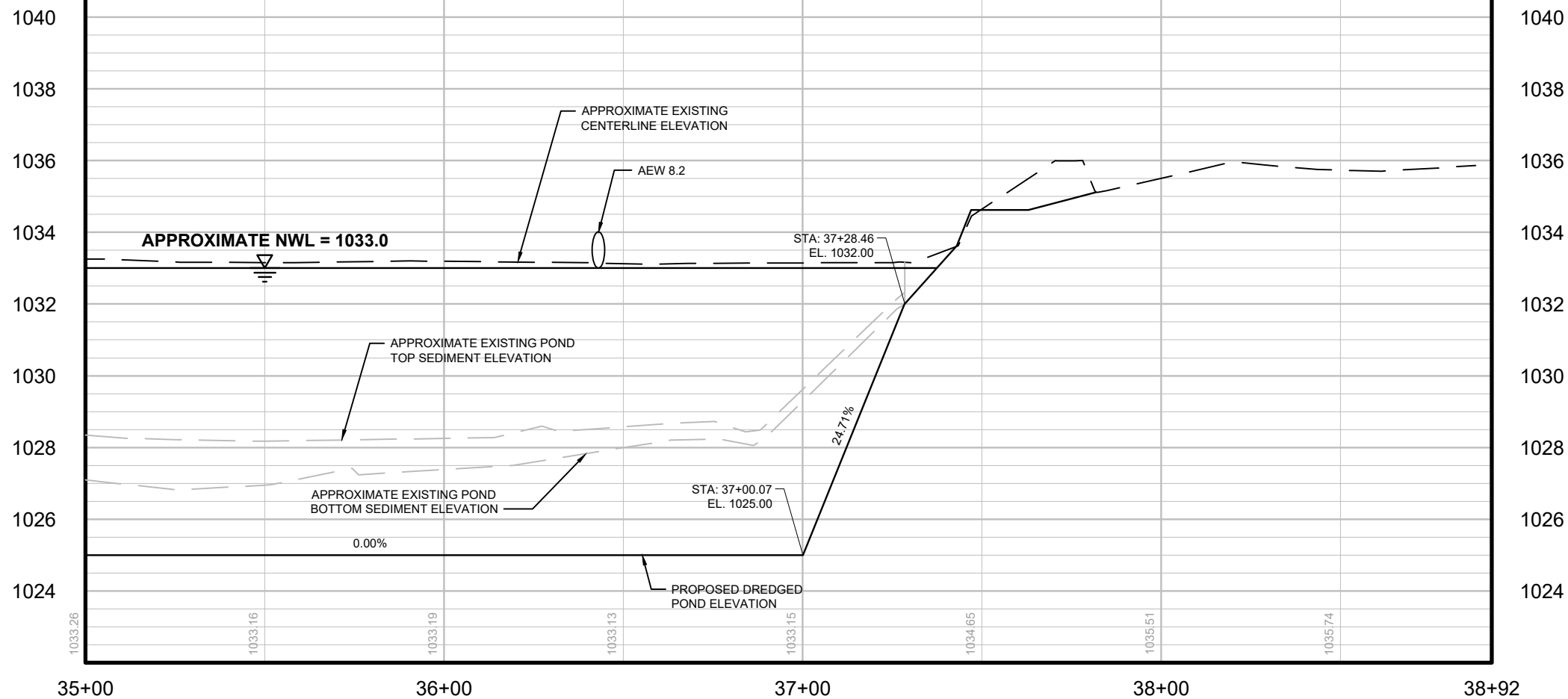
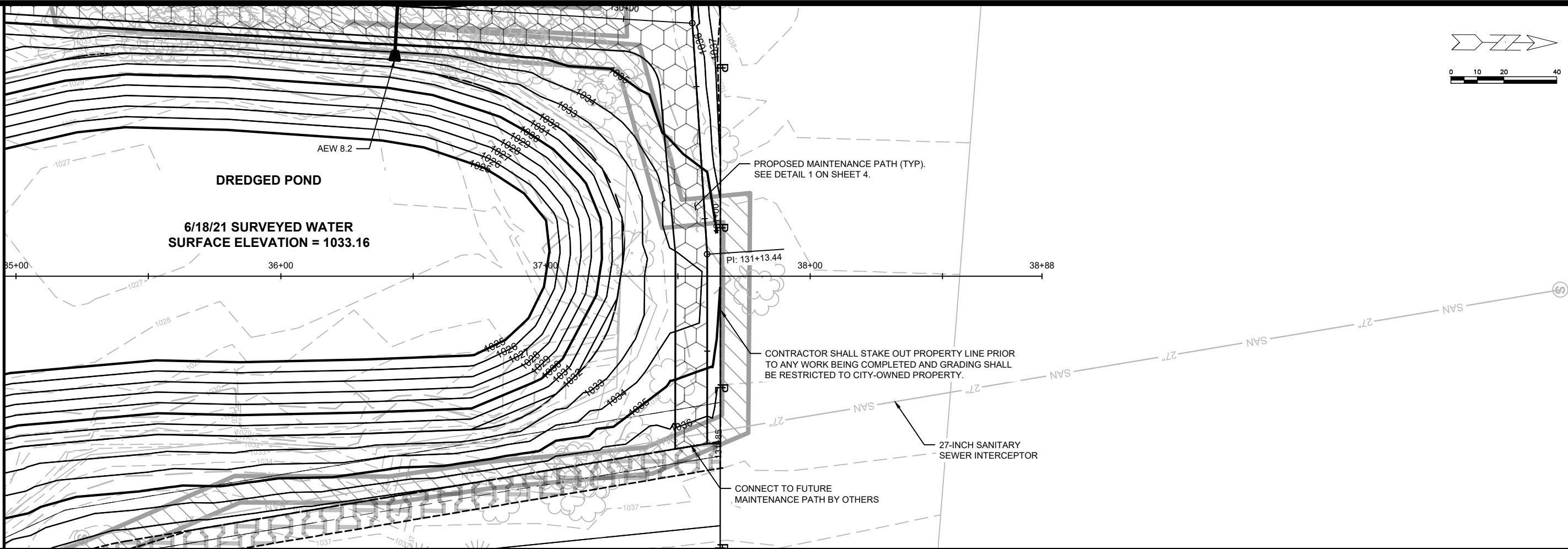
MAIN LINE CHANNEL PLAN AND PROFILE - 4

LOWER BADGER MILL CREEK FLOOD MITIGATION

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MATCH LINE 34+95 SEE SHEET 33



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CITY OF MADISON

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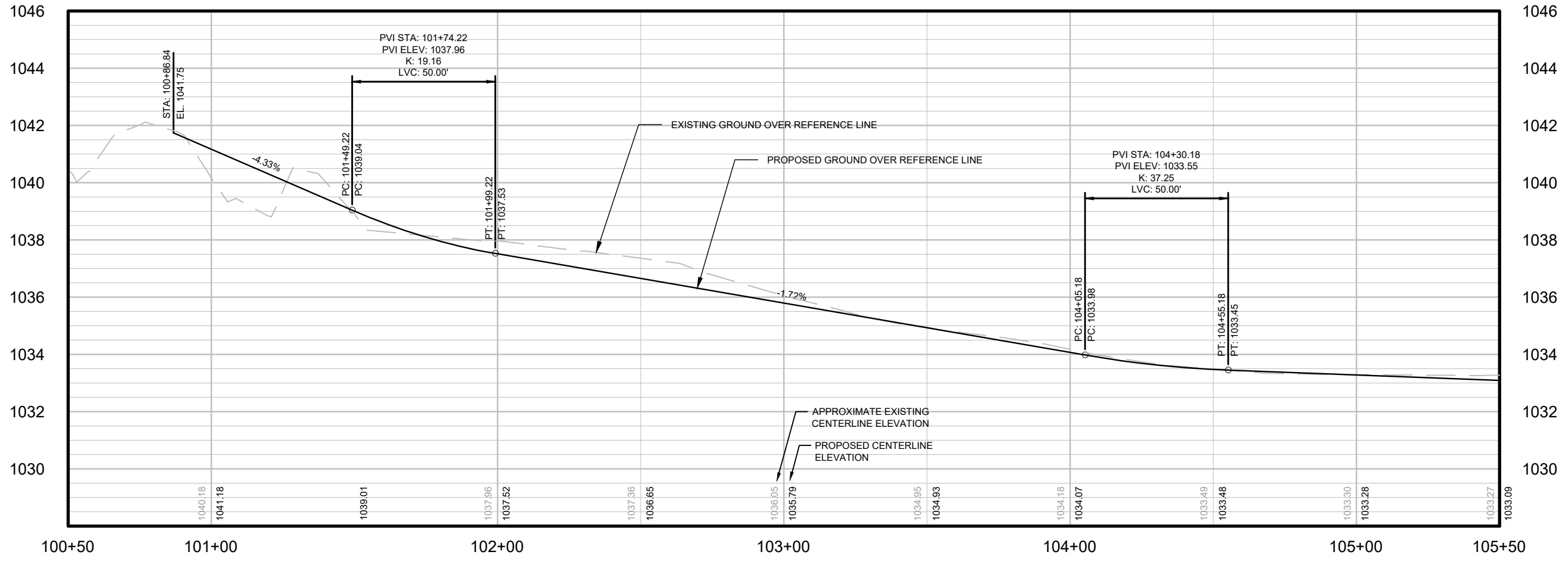
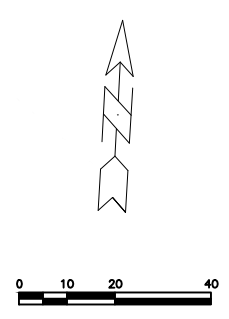
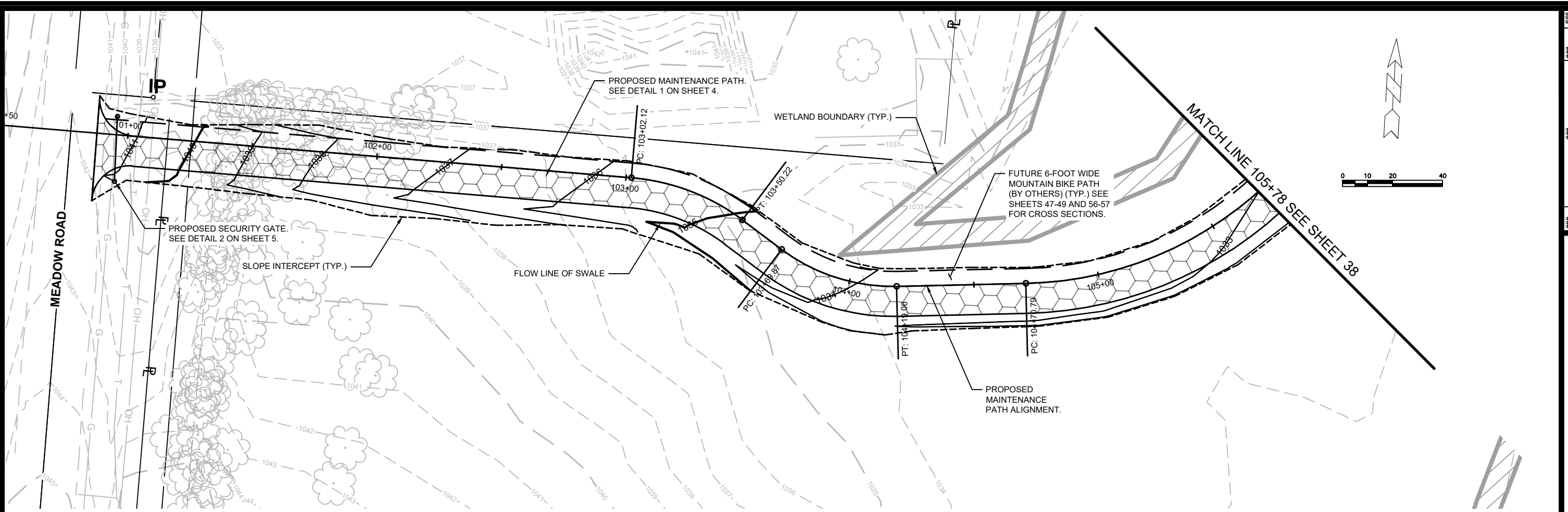
CONTRACT NO.:

MAIN LINE CHANNEL PLAN AND PROFILE - 5
LOWER BADGER MILL CREEK FLOOD MITIGATION
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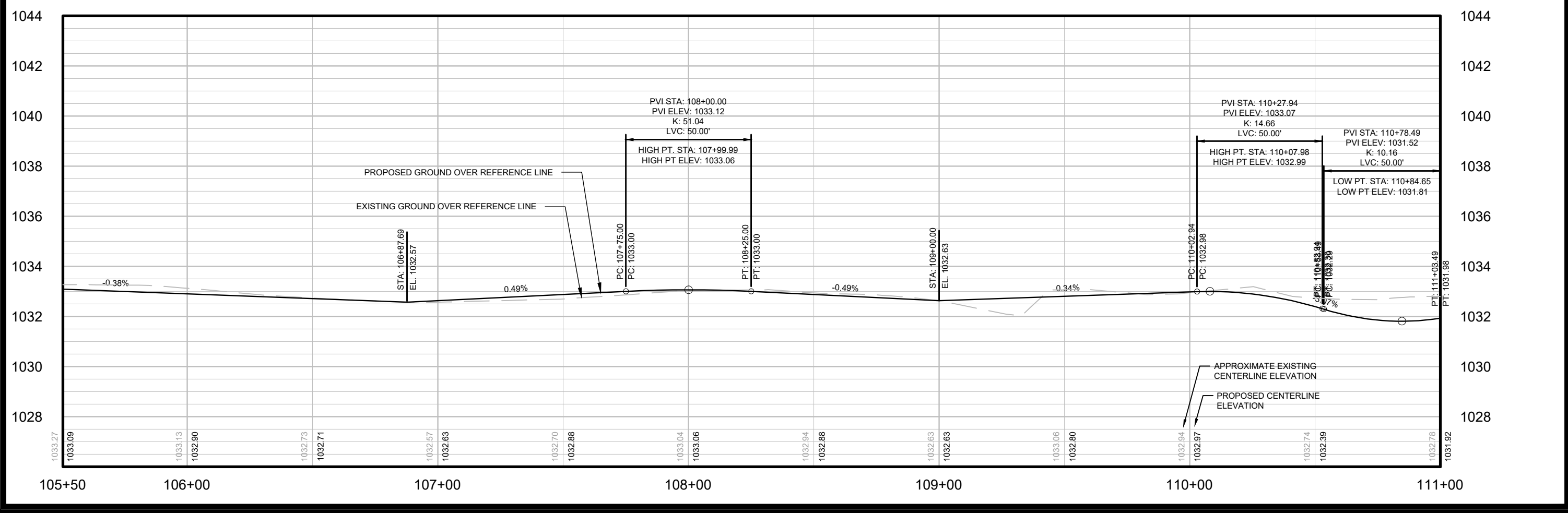
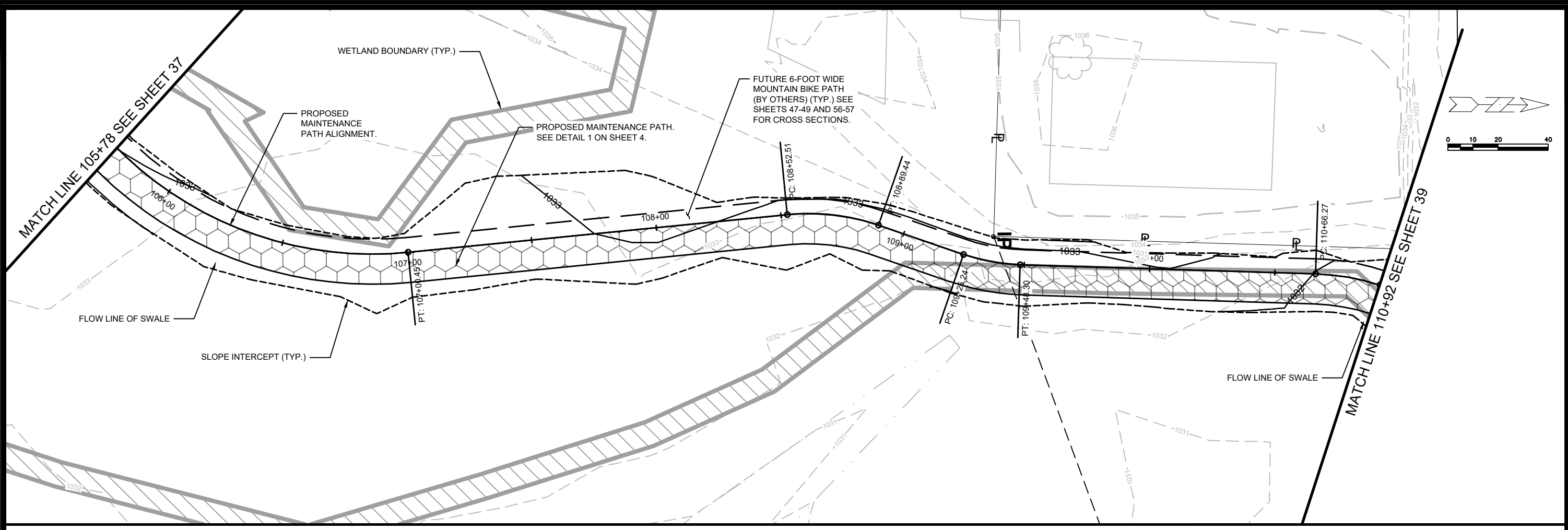


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1020.129		1020.129	9030	1020.129	37
CITY OF MADISON		CONTRACT NO:		REVISION	DATE
LOWER BADGER MILL CREEK FLOOD MITIGATION		1020.129		###	###
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		1020.129		###	###
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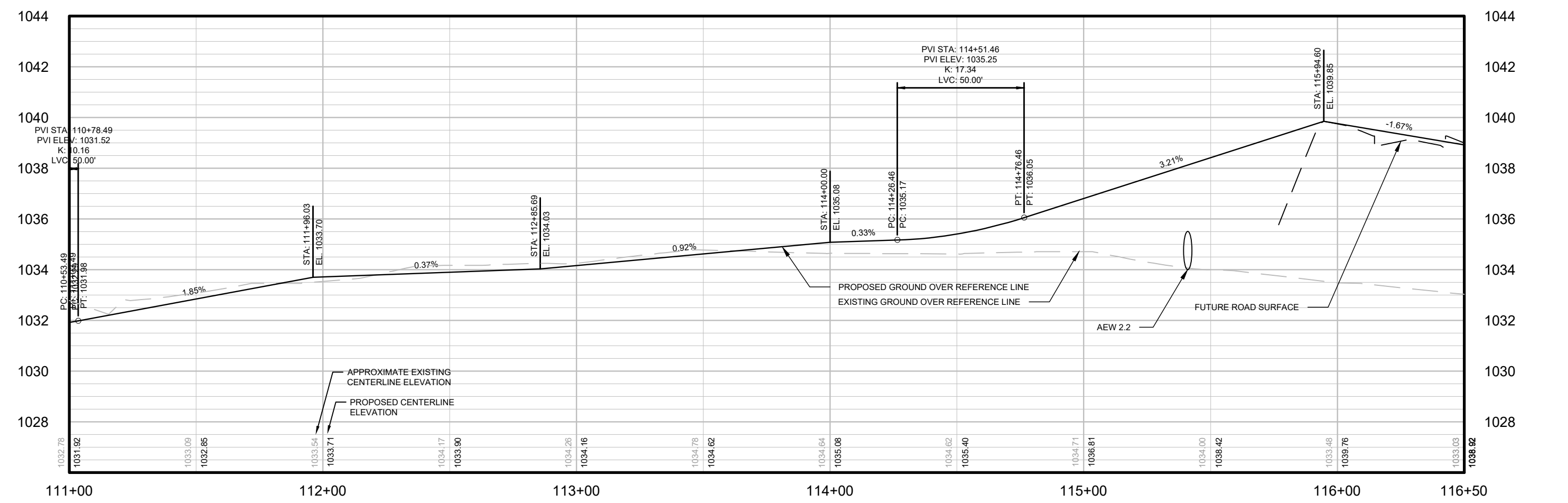
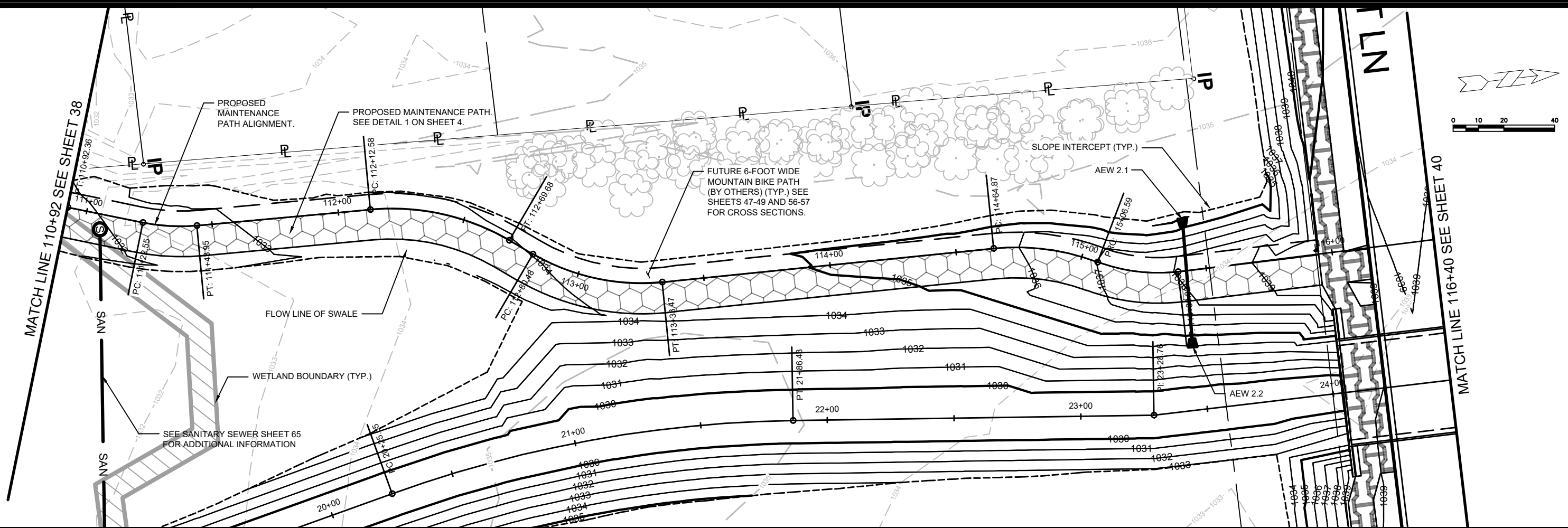
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 CITY OF MADISON
 CONTRACT NO: 9030

Maintenance Path Plan and Profile - 2
 Lower Badger Mill Creek Flood Mitigation
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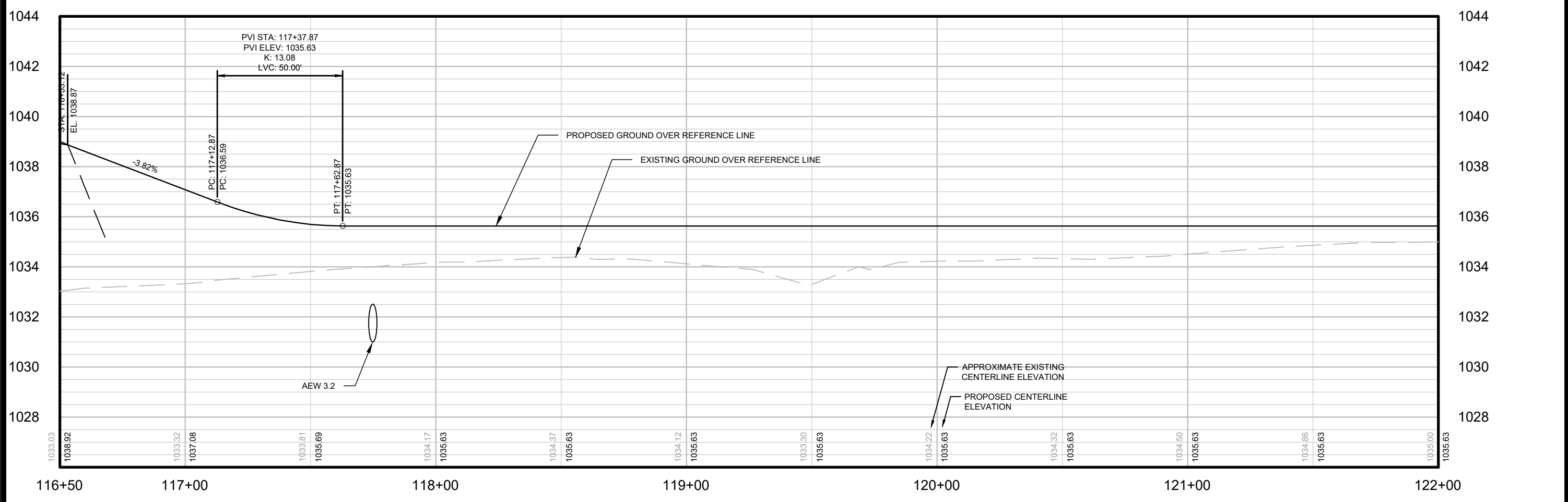
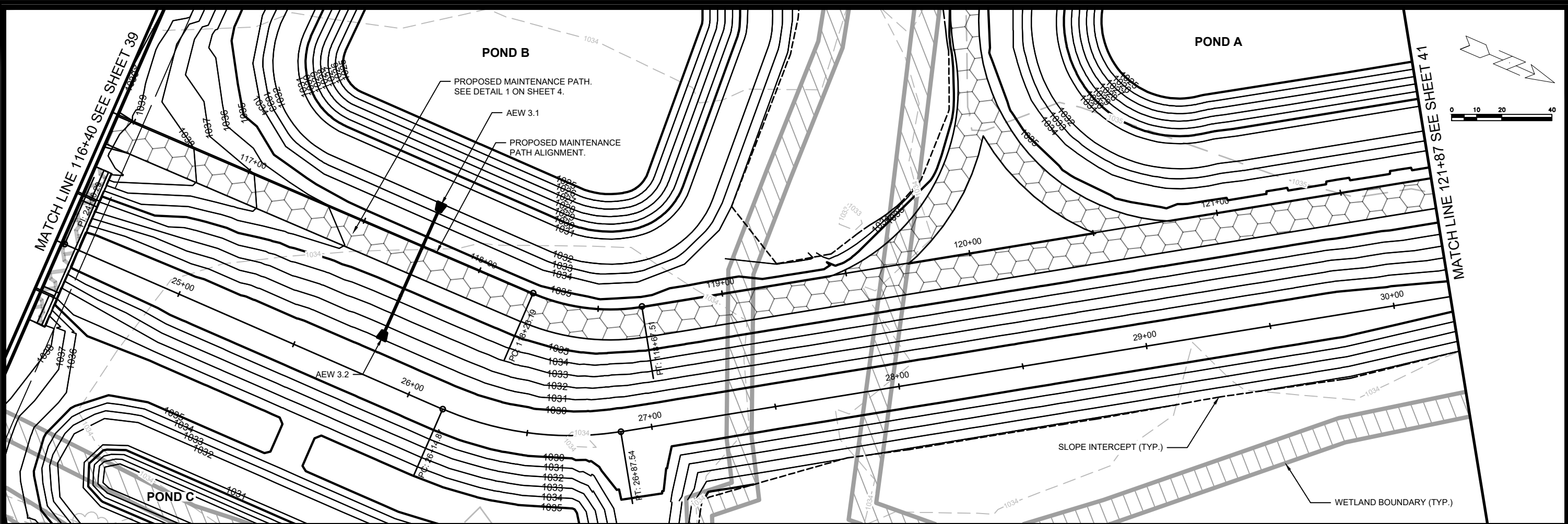


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 CITY OF MADISON
 CONTRACT NO.: 9030

MAINTENANCE PATH PLAN AND PROFILE - 3
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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 CITY OF MADISON
 CONTRACT NO.: 9030

MAINTENANCE PATH PLAN AND PROFILE - 4
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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 40

MATCH LINE 121+87 SEE SHEET 40

MATCH LINE 127+40 SEE SHEET 42

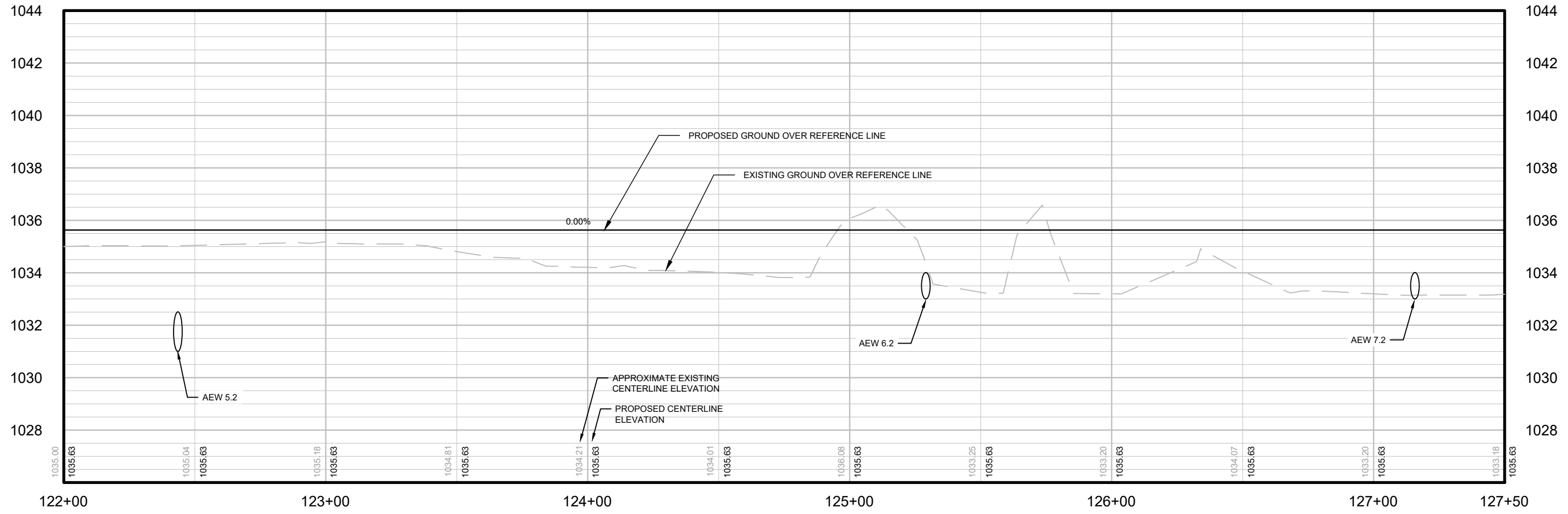
POND A

PROPOSED MAINTENANCE PATH ALIGNMENT.

PROPOSED MAINTENANCE PATH. SEE DETAIL 1 ON SHEET 4.

WETLAND BOUNDARY (TYP.)

SLOPE INTERCEPT (TYP.)



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CITY OF MADISON

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CONTRACT NO.:

MAINTENANCE PATH PLAN AND PROFILE - 5

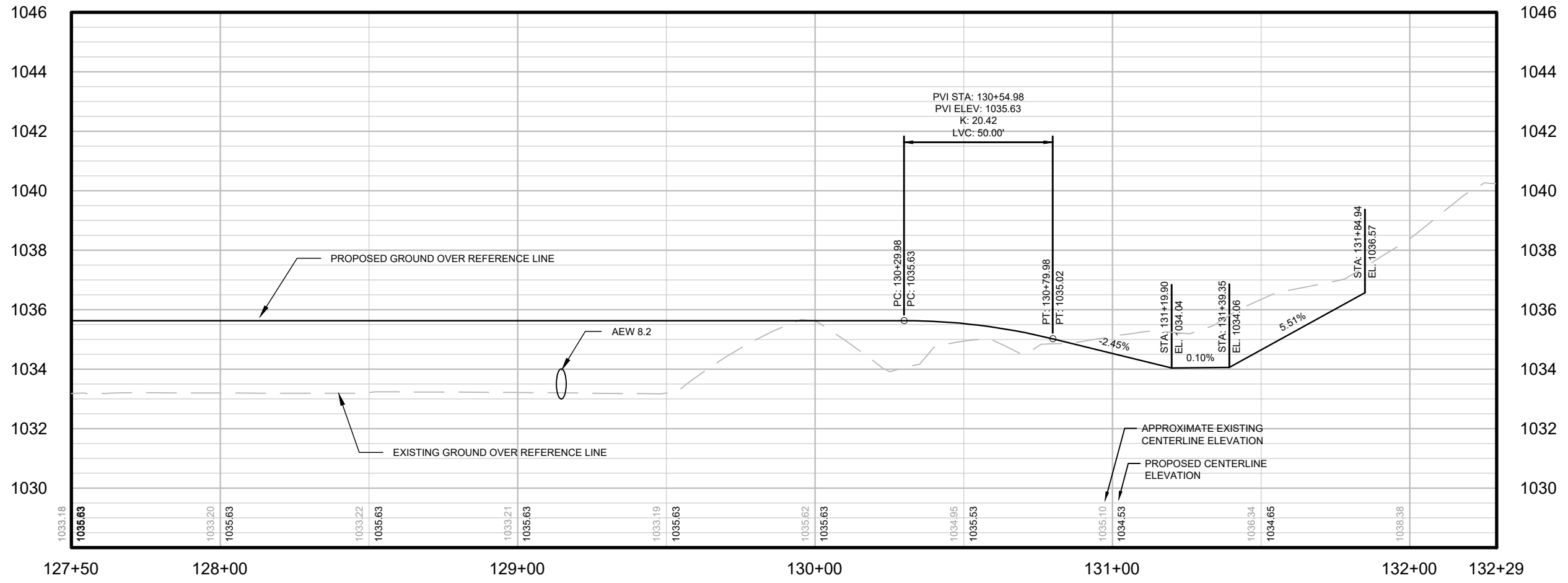
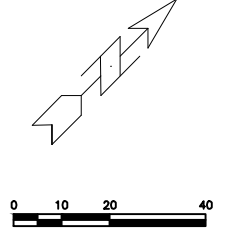
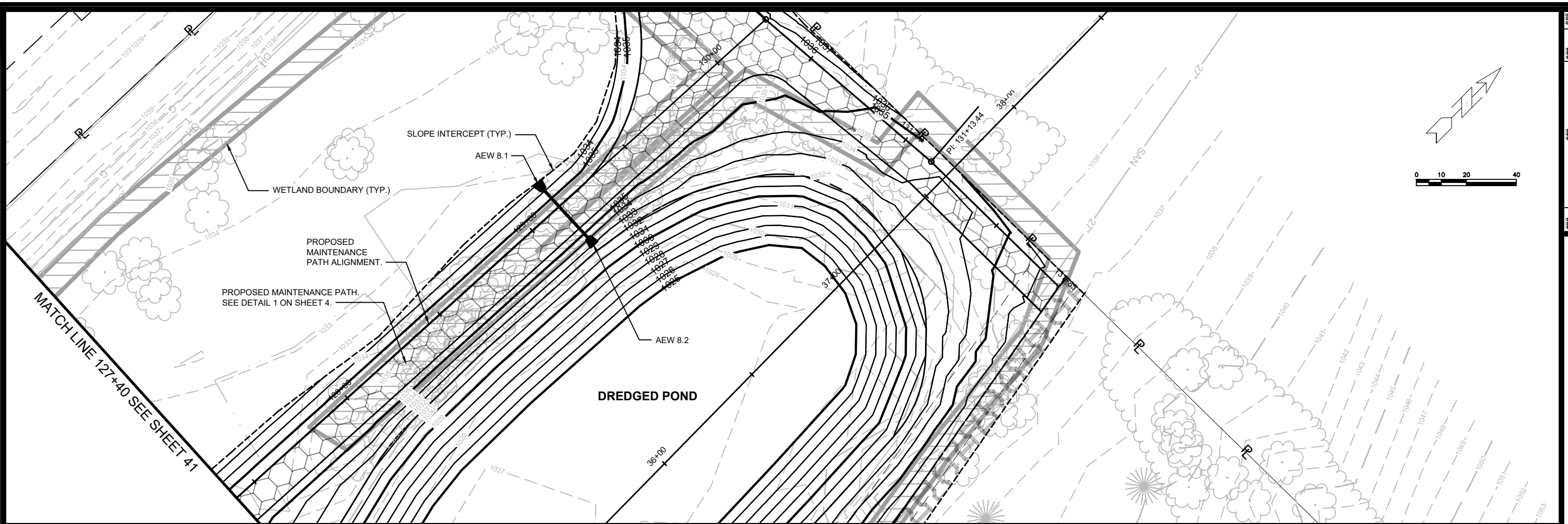
LOWER BADGER MILL CREEK FLOOD MITIGATION

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1020.129

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MARK	REVISION	DATE	BY
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Scale: 1"=40'

Designed By: JGG Date: 2/17/2023 1:34 PM

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CITY OF MADISON

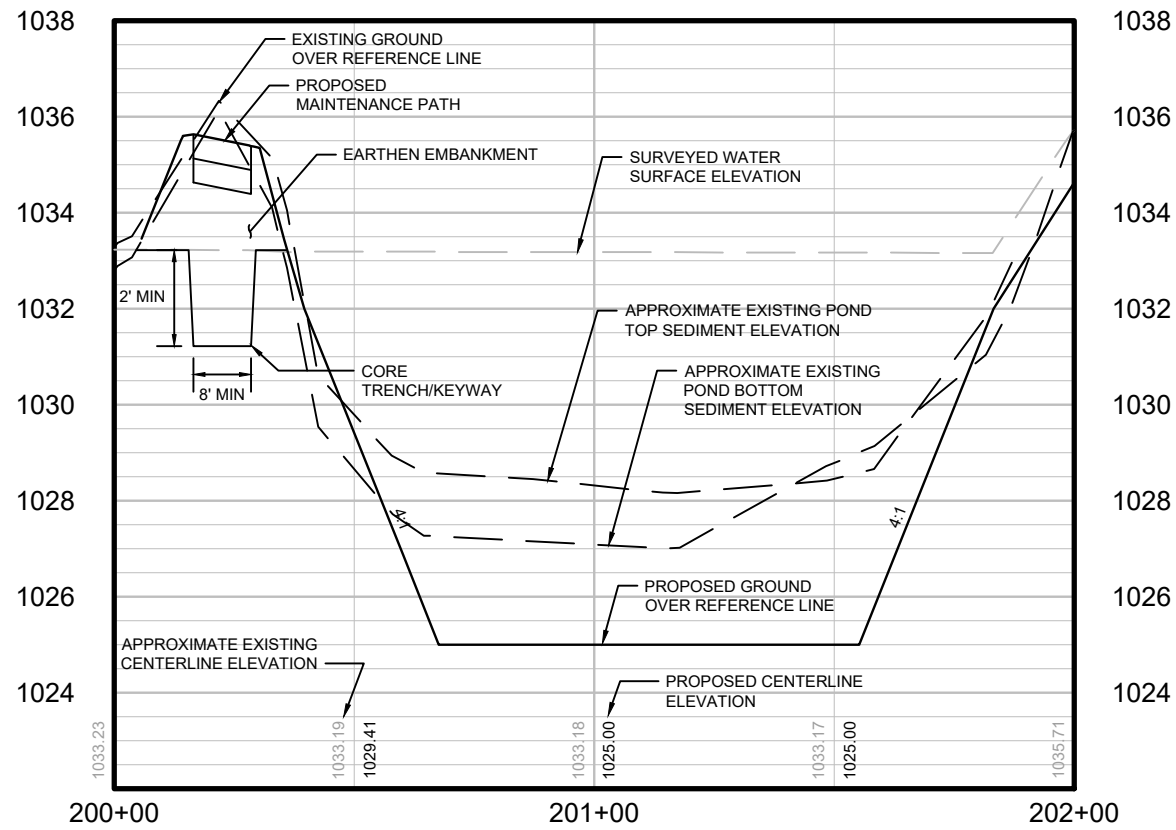
CONTRACT NO: 9030

MAINTENANCE PATH PLAN AND PROFILE - 6

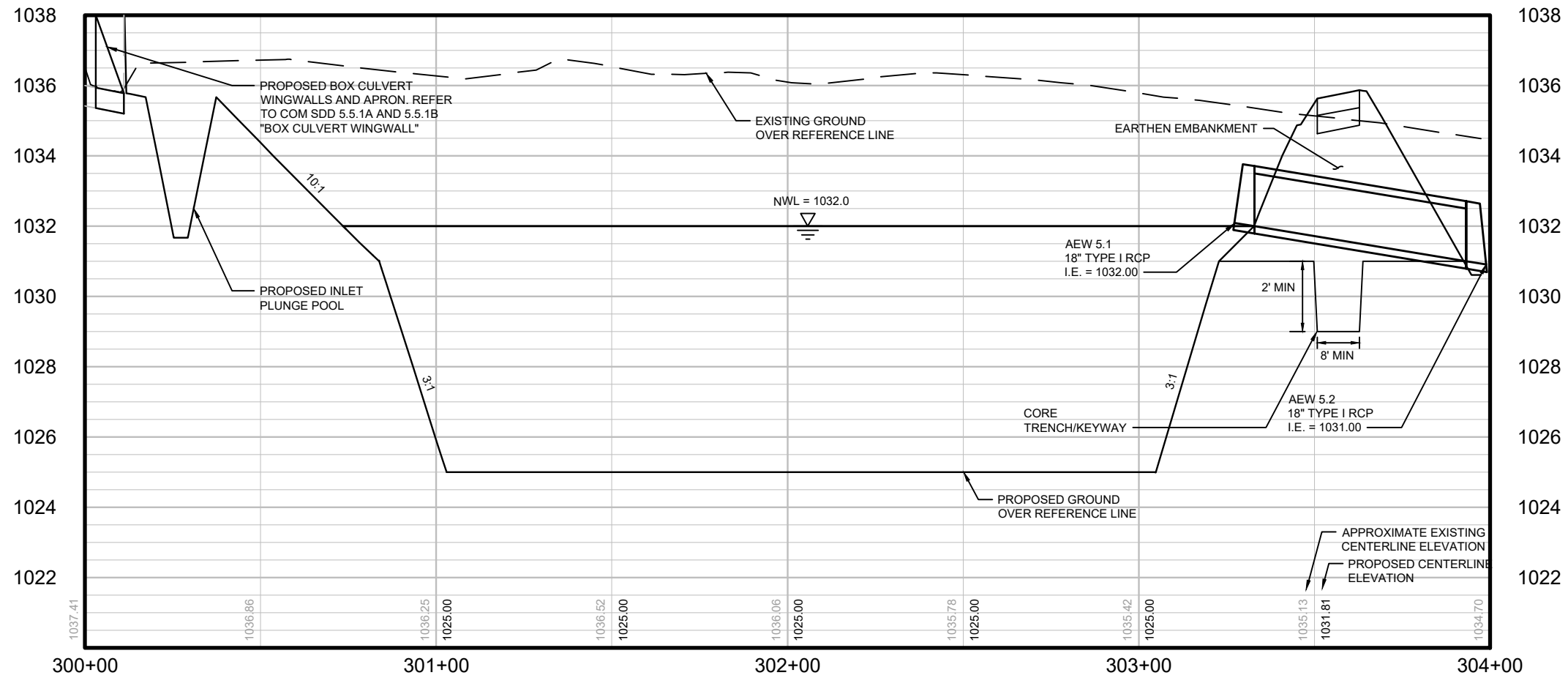
LOWER BADGER MILL CREEK FLOOD MITIGATION

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DREDGED POND SECTION D-D
SCALE: 1" = 40'



POND A SECTION A-A
SCALE: 1" = 40'

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CITY OF MADISON
CONTRACT NO: 9030

POND SECTIONS -1
LOWER BADGER MILL CREEK FLOOD MITIGATION
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43

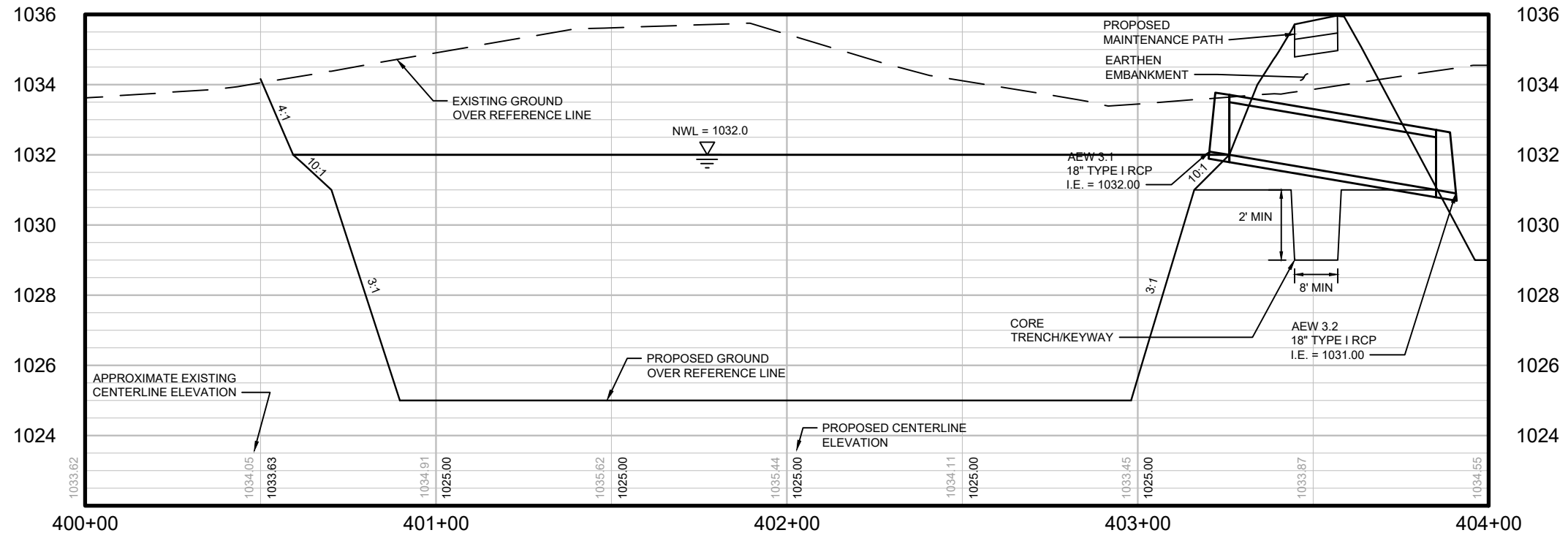
Designed By: JGG
Date: 2/17/2023 1:34 PM
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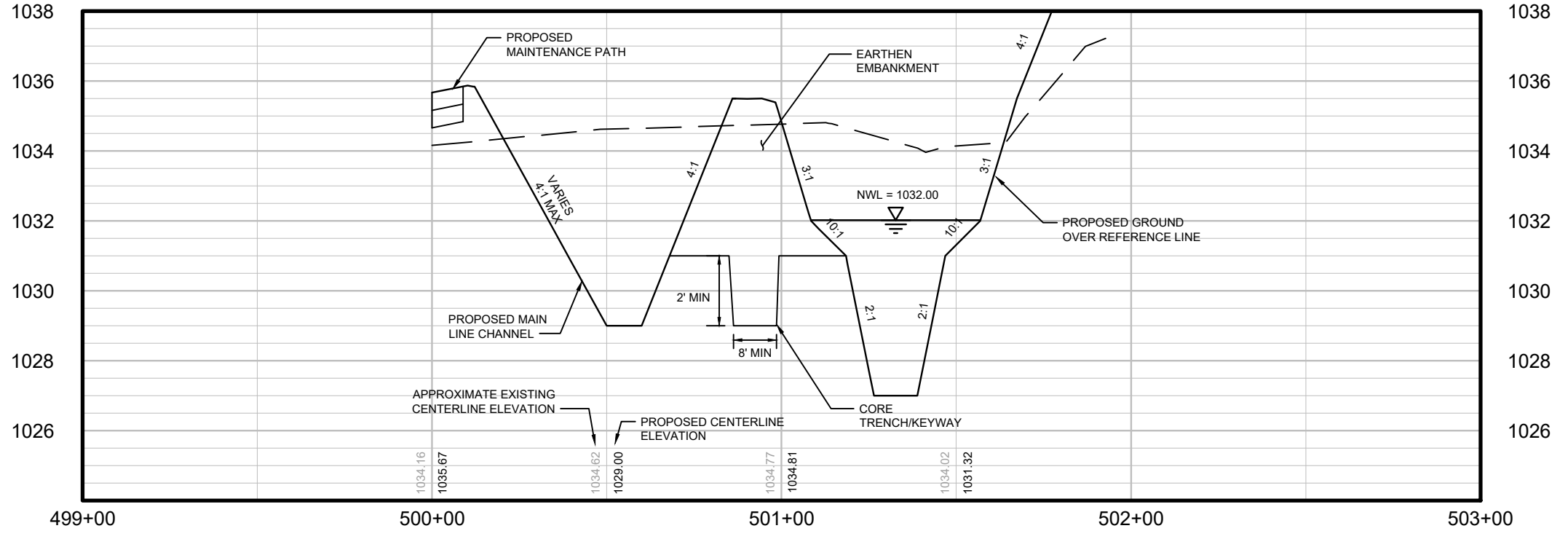
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CITY OF MADISON
CONTRACT NO: 9030



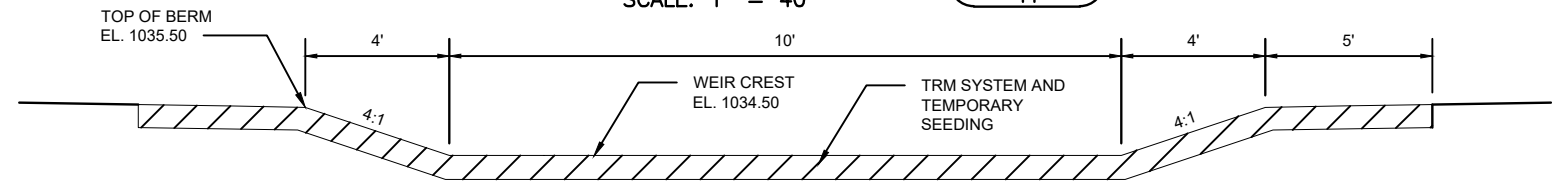
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43



POND B SECTION B-B
SCALE: 1" = 40' B
44



POND C SECTION C-C
SCALE: 1" = 40' C
44



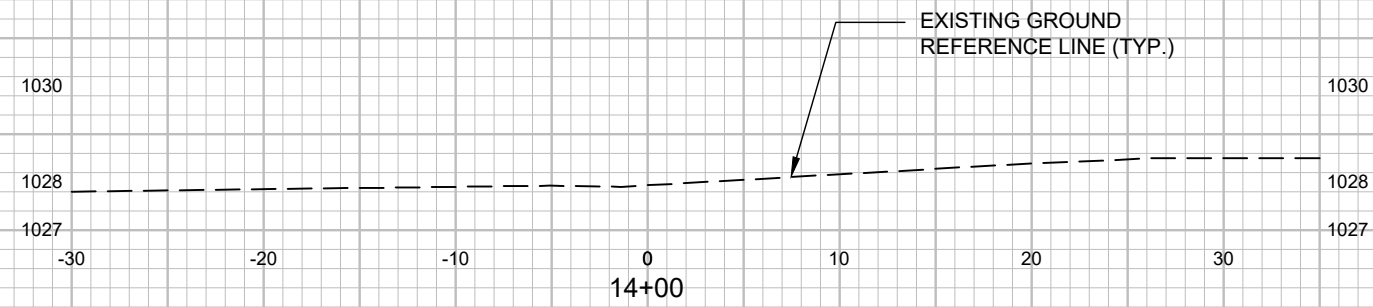
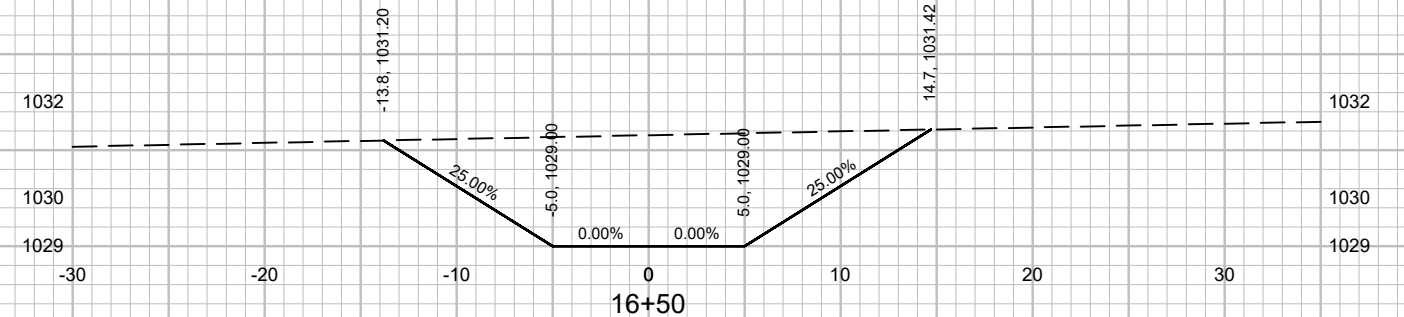
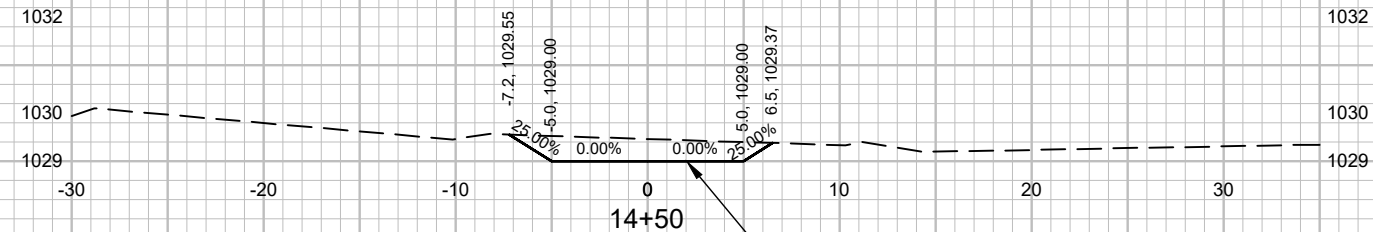
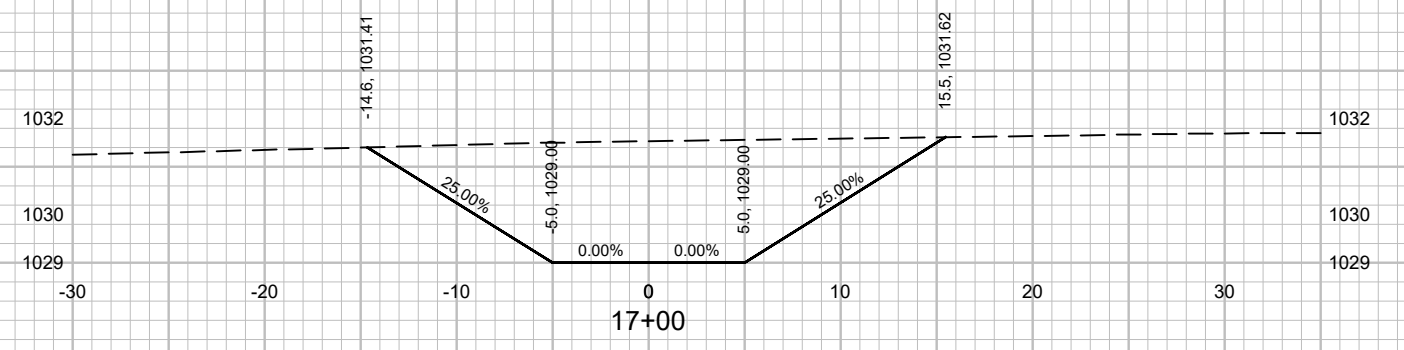
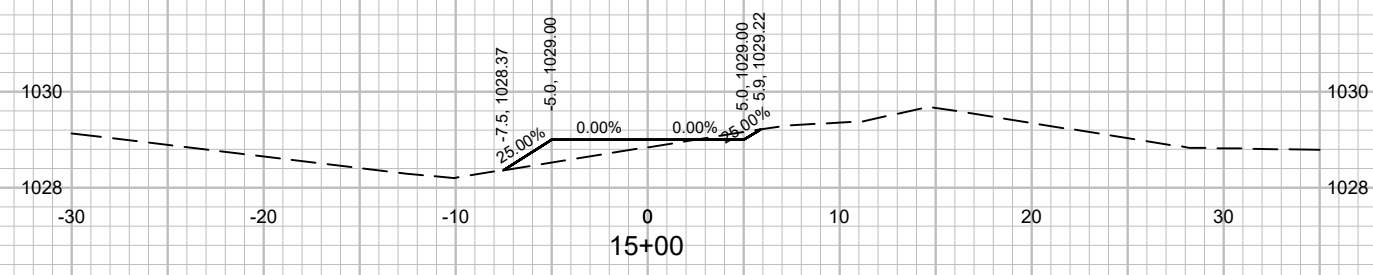
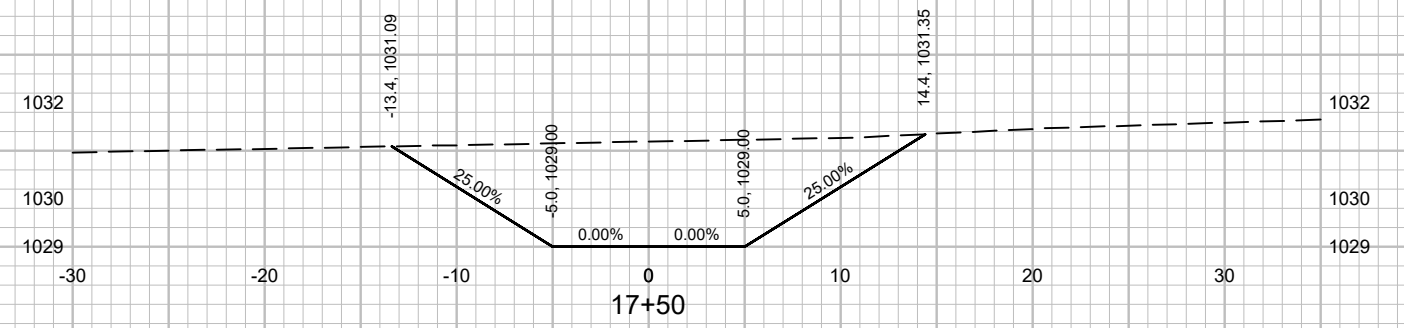
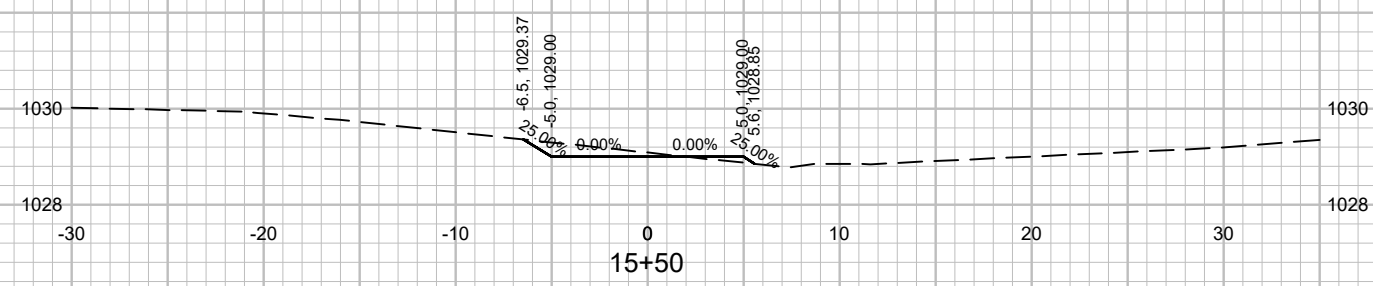
POND C OVERFLOW SPILLWAY SECTION C1-C1
NO SCALE D
44

POND SECTIONS - 2	1020.129	CITY OF MADISON	9030	CONTRACT NO:
LOWER BADGER MILL CREEK FLOOD MITIGATION				
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44				

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Designed By: JGG	Date: 2/17/2023 1:34 PM	Scale: 1"=40'
MARK	1020.129	44



PROPOSED GROUND REFERENCE LINE (TYP.)

EXISTING GROUND REFERENCE LINE (TYP.)

MARK	REVISION	DATE	BY
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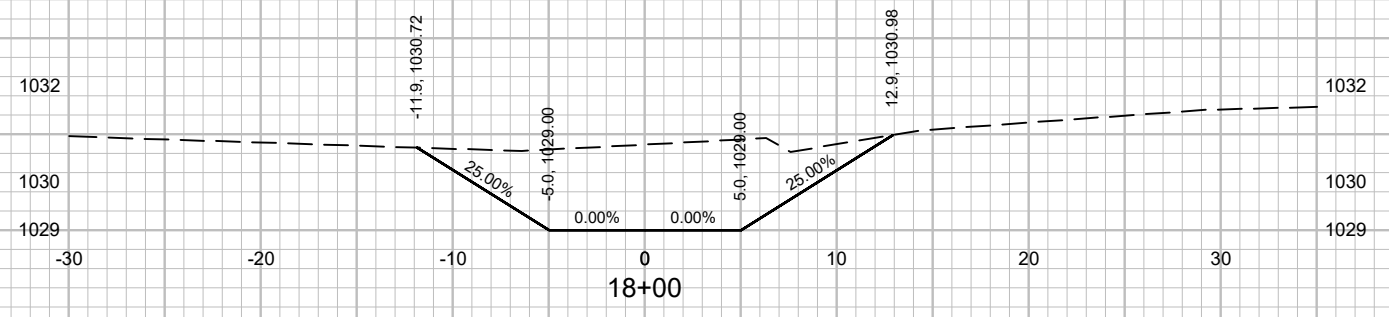
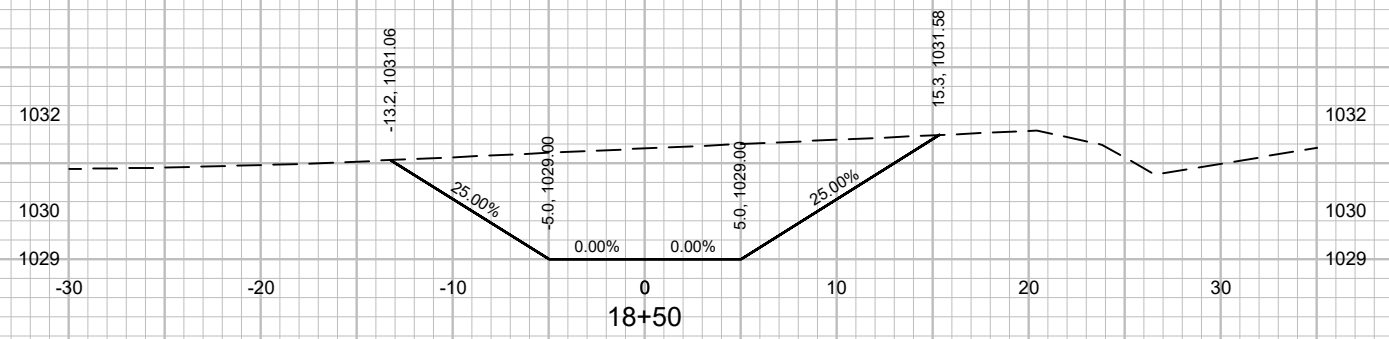
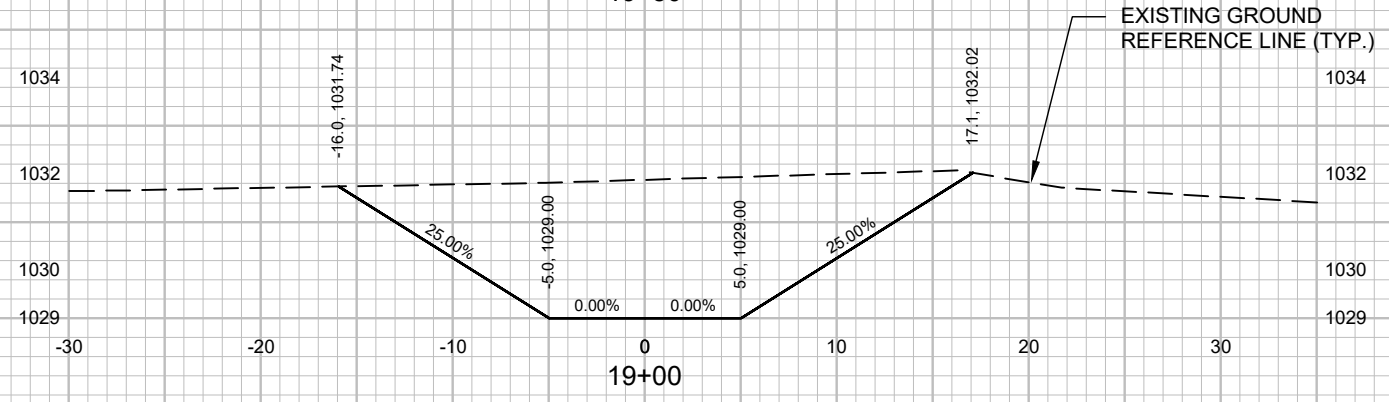
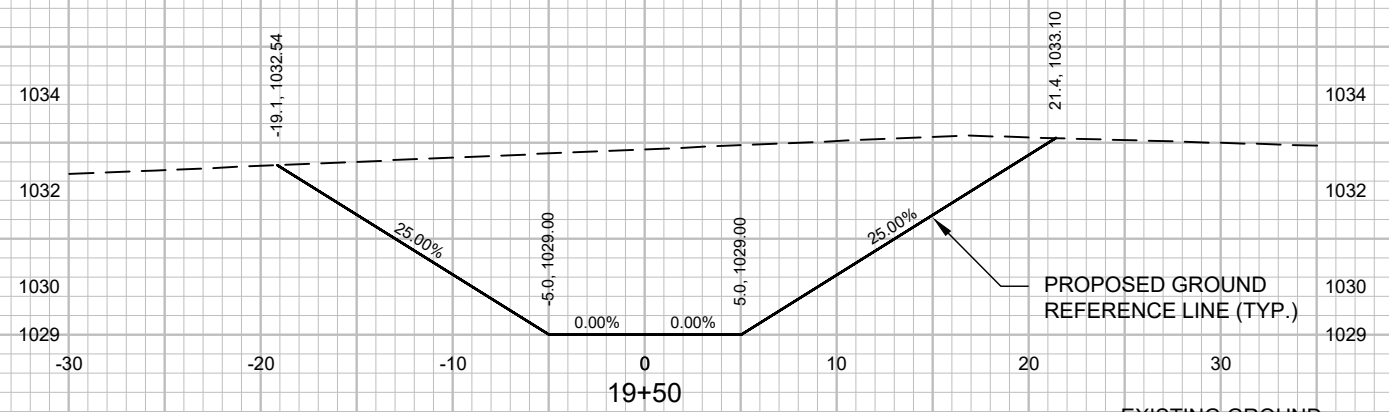
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1020.129
CITY OF MADISON
9030
CONTRACT NO:

MAIN LINE CHANNEL CROSS SECTIONS
LOWER BADGER MILL CREEK FLOOD MITIGATION
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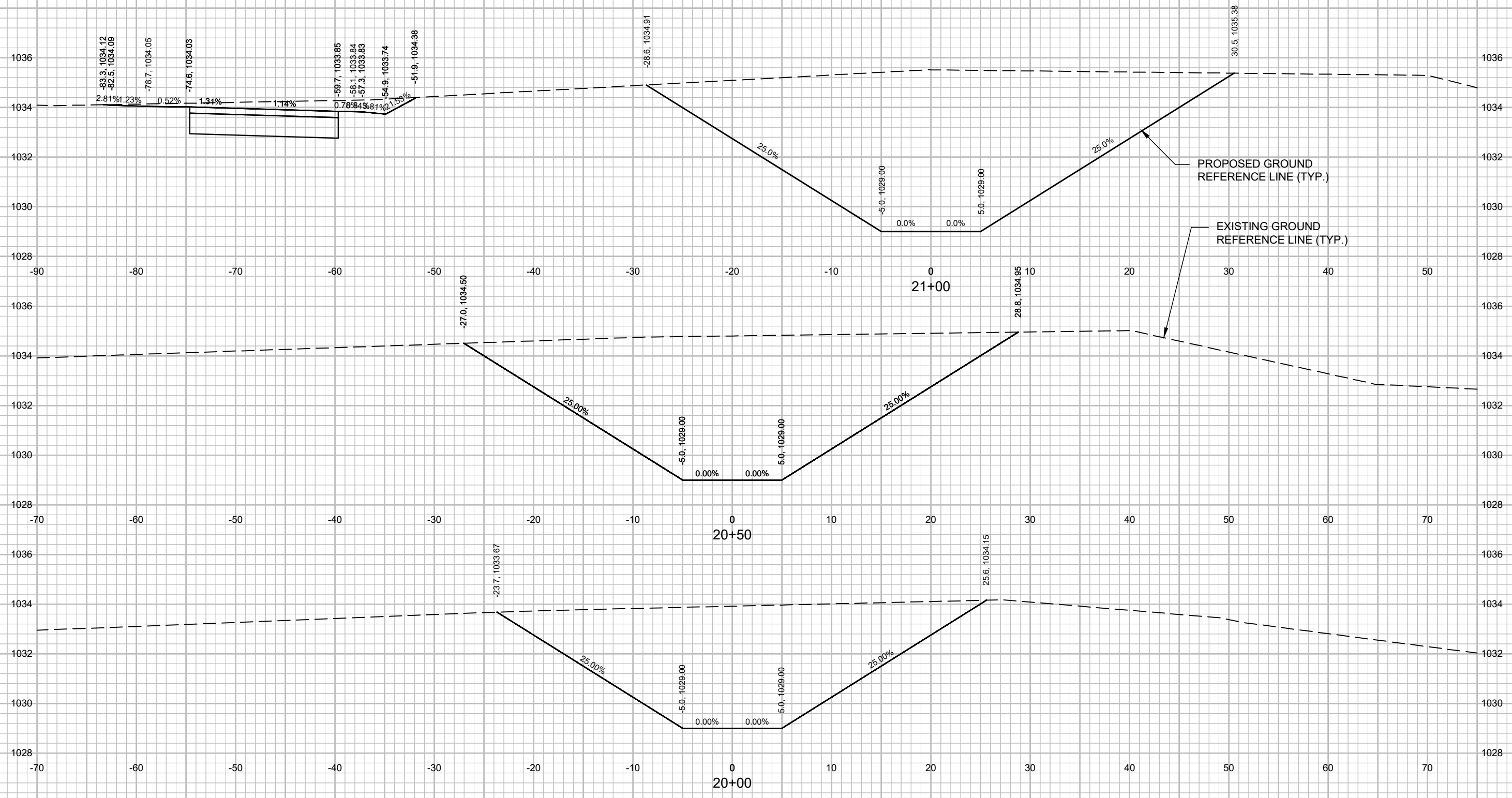




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1020.129
 CITY OF MADISON
 CONTRACT NO: 9030
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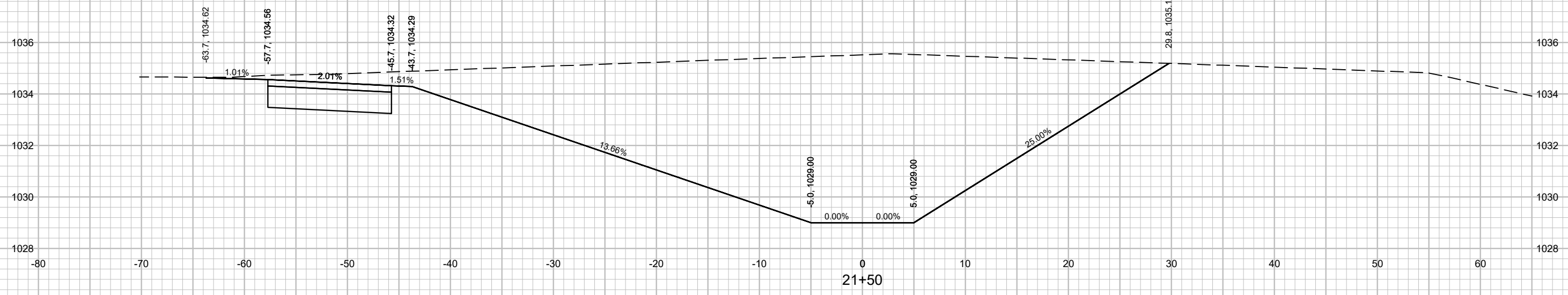
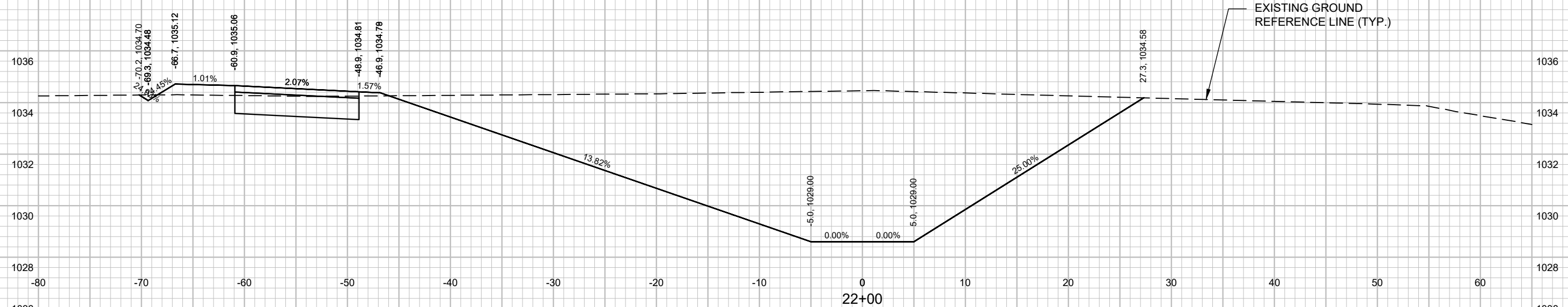
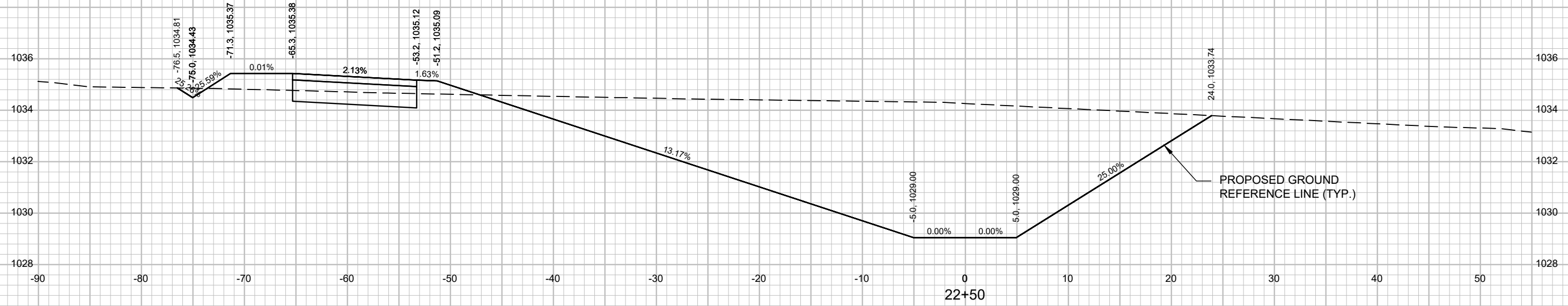


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1020.129
 CITY OF MADISON
 CONTRACT NO.: 9030
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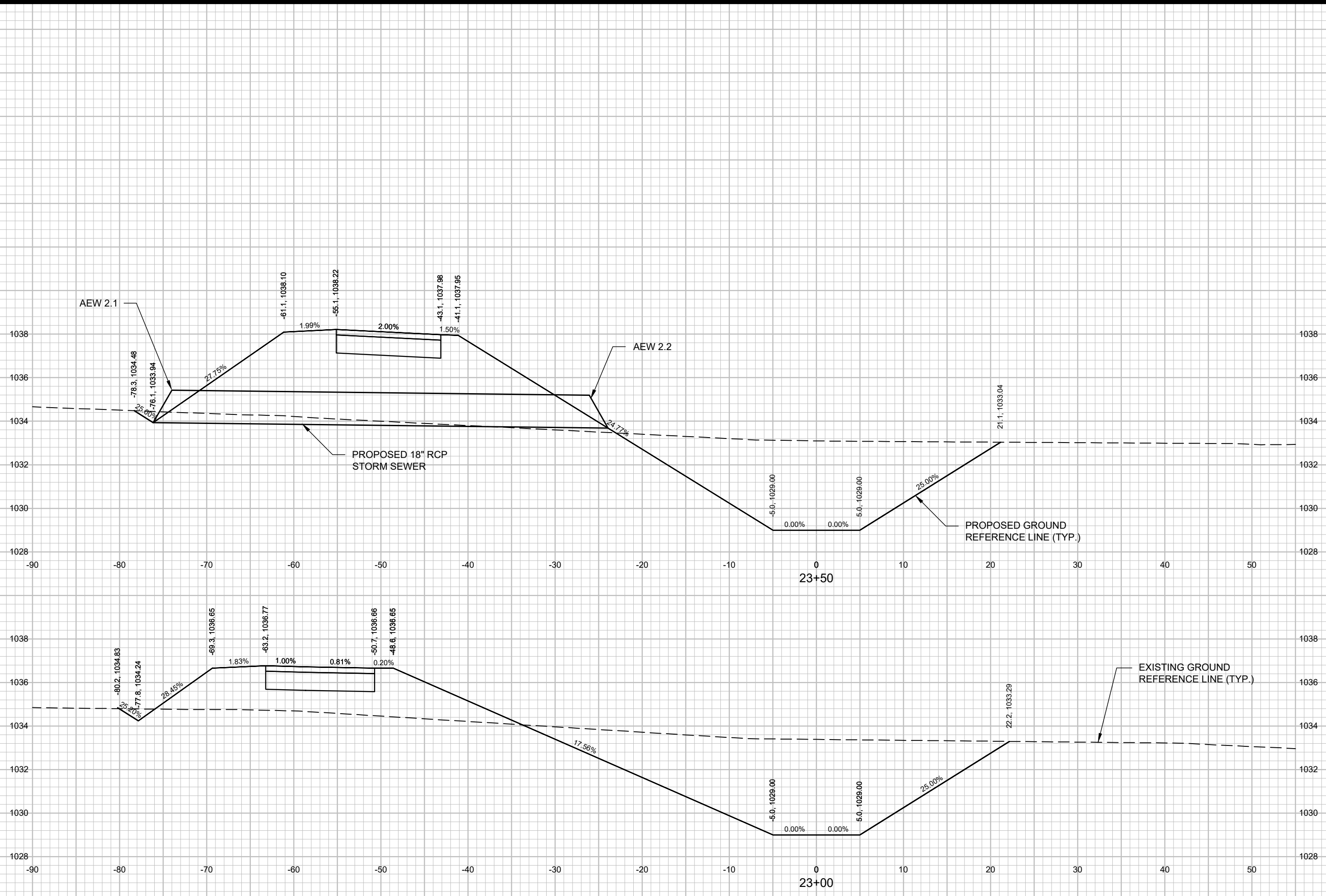


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1020.129
 CITY OF MADISON
 CONTRACT NO: 9030

MAIN LINE CHANNEL CROSS SECTIONS
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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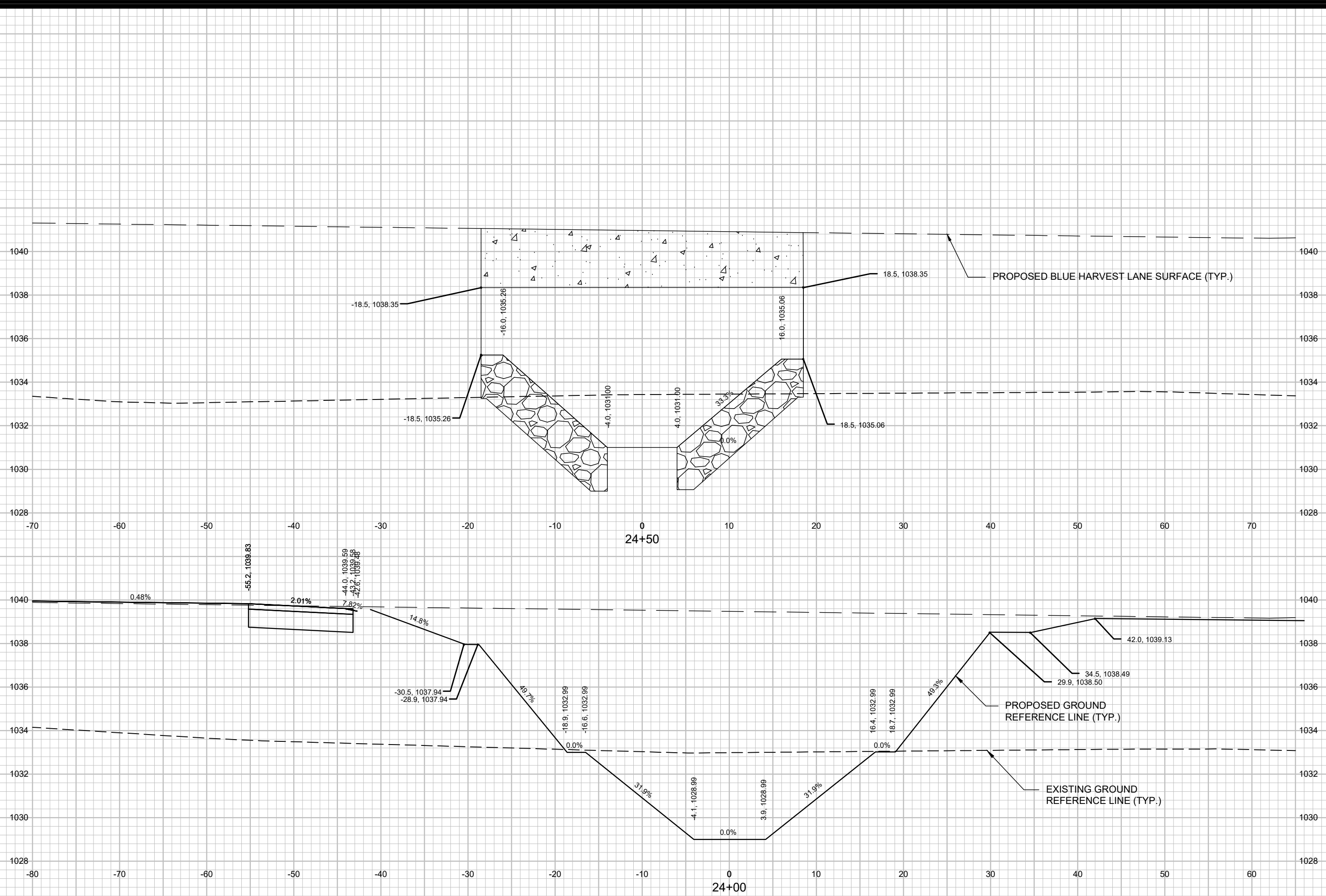


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1020.129
 CITY OF MADISON
 CONTRACT NO.: 9030
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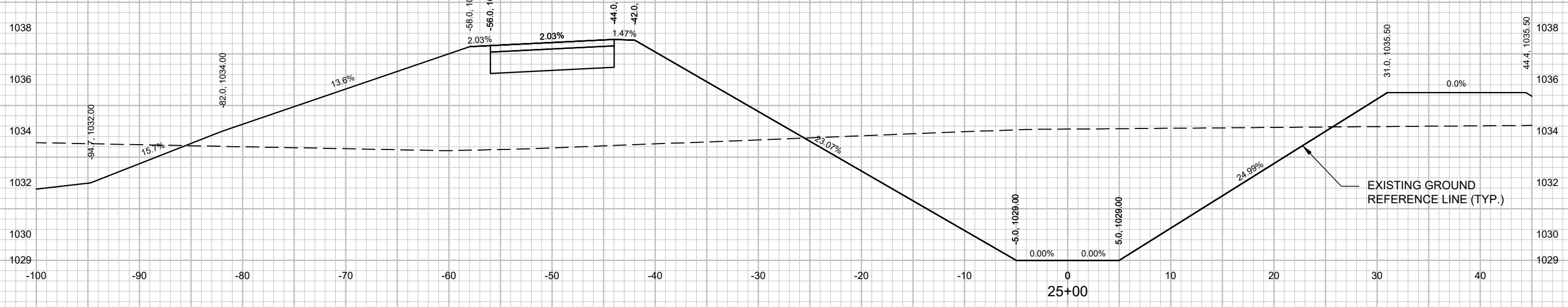
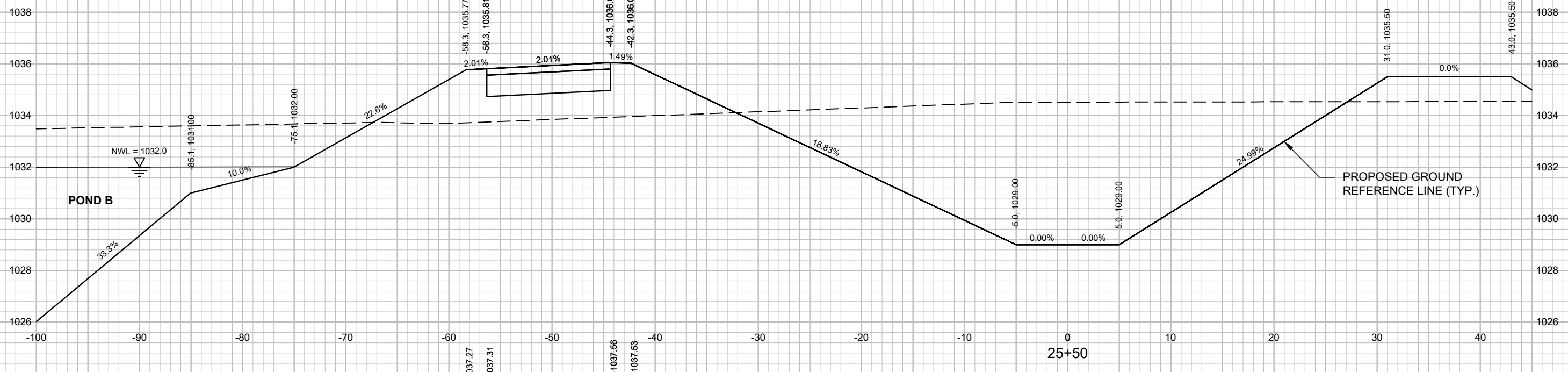
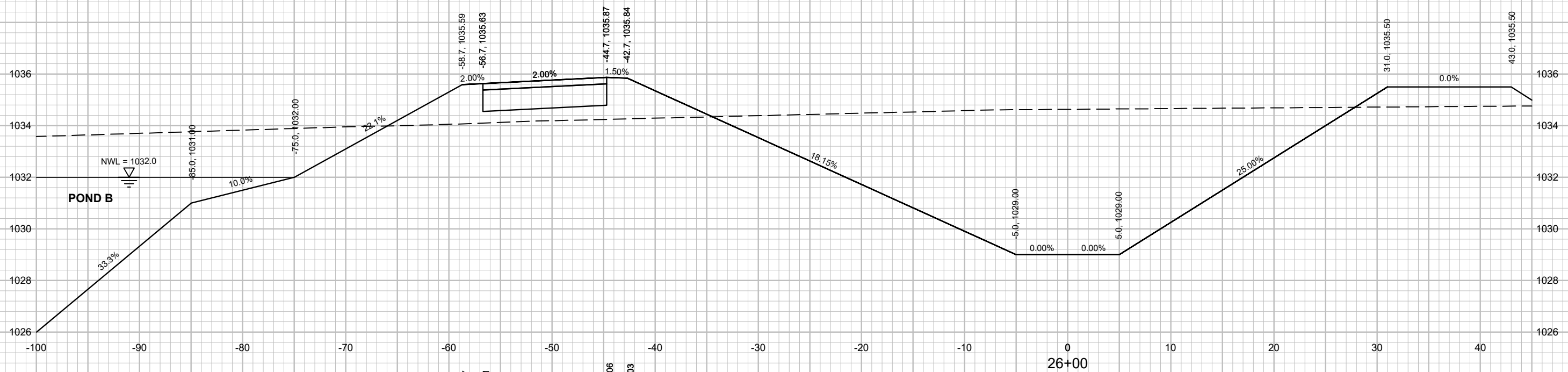


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1020.129
 CITY OF MADISON
 CONTRACT NO.: 9030
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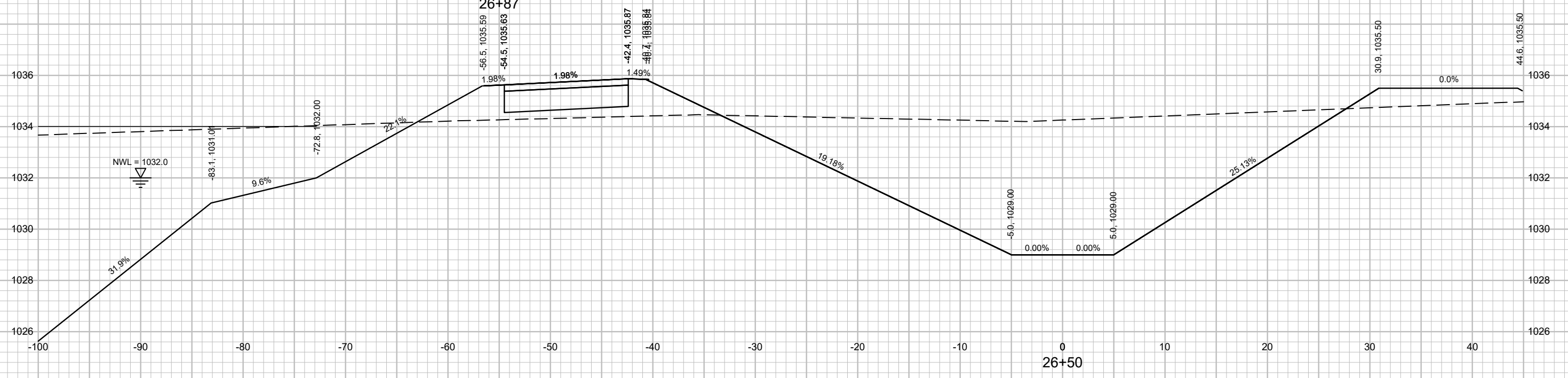
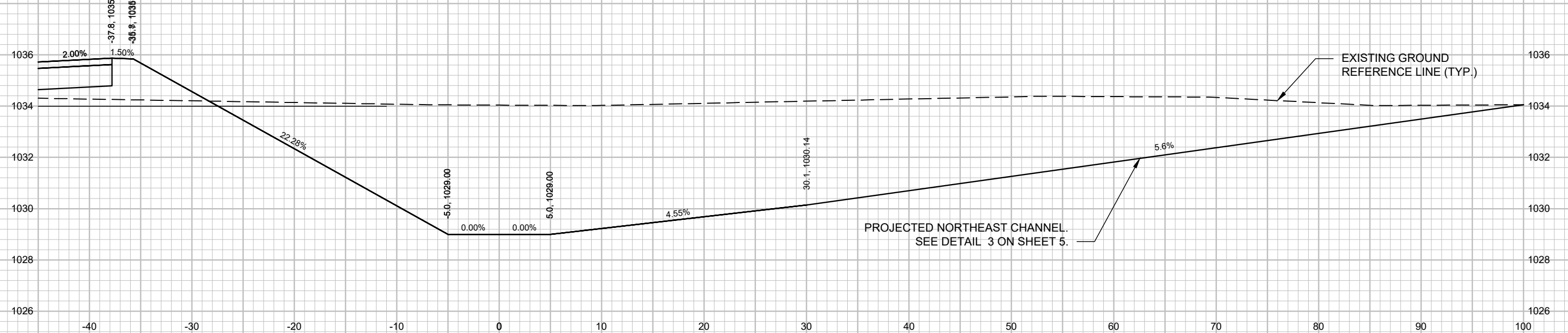
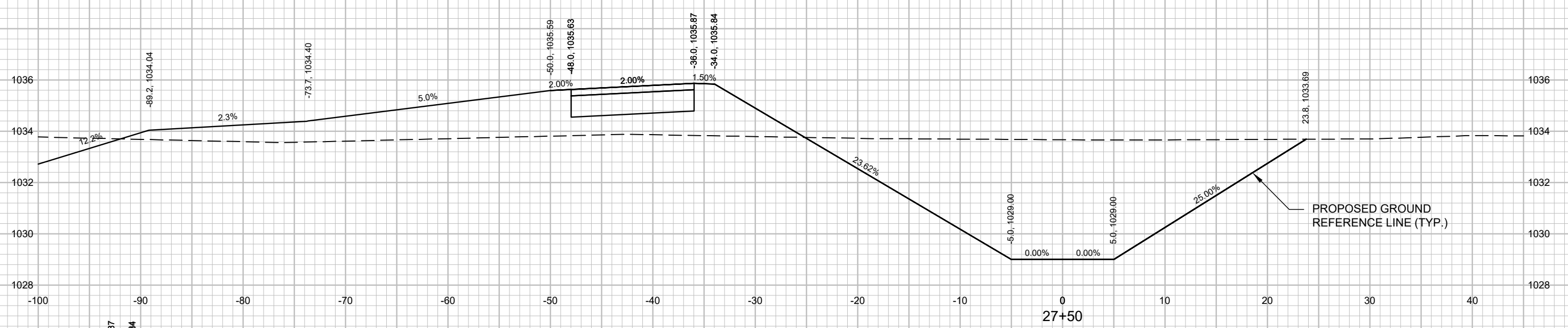


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Designed By: JGG
Date: 2/1/2023 1:35 PM
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1020.129
CITY OF MADISON
LOWER BADGER MILL CREEK FLOOD MITIGATION
CONTRACT NO: 9030
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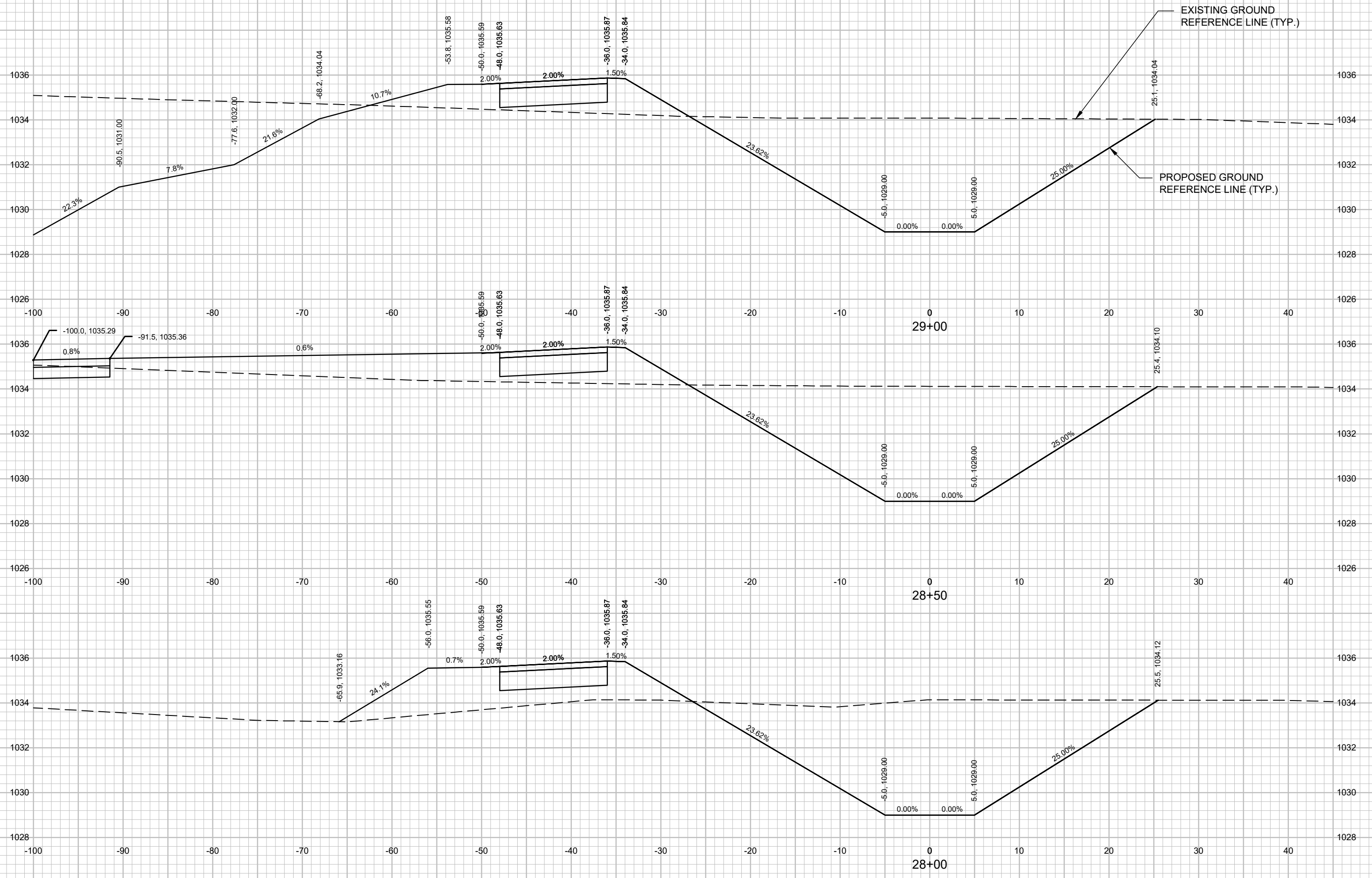


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1020.129
 CITY OF MADISON
 CONTRACT NO: 9030

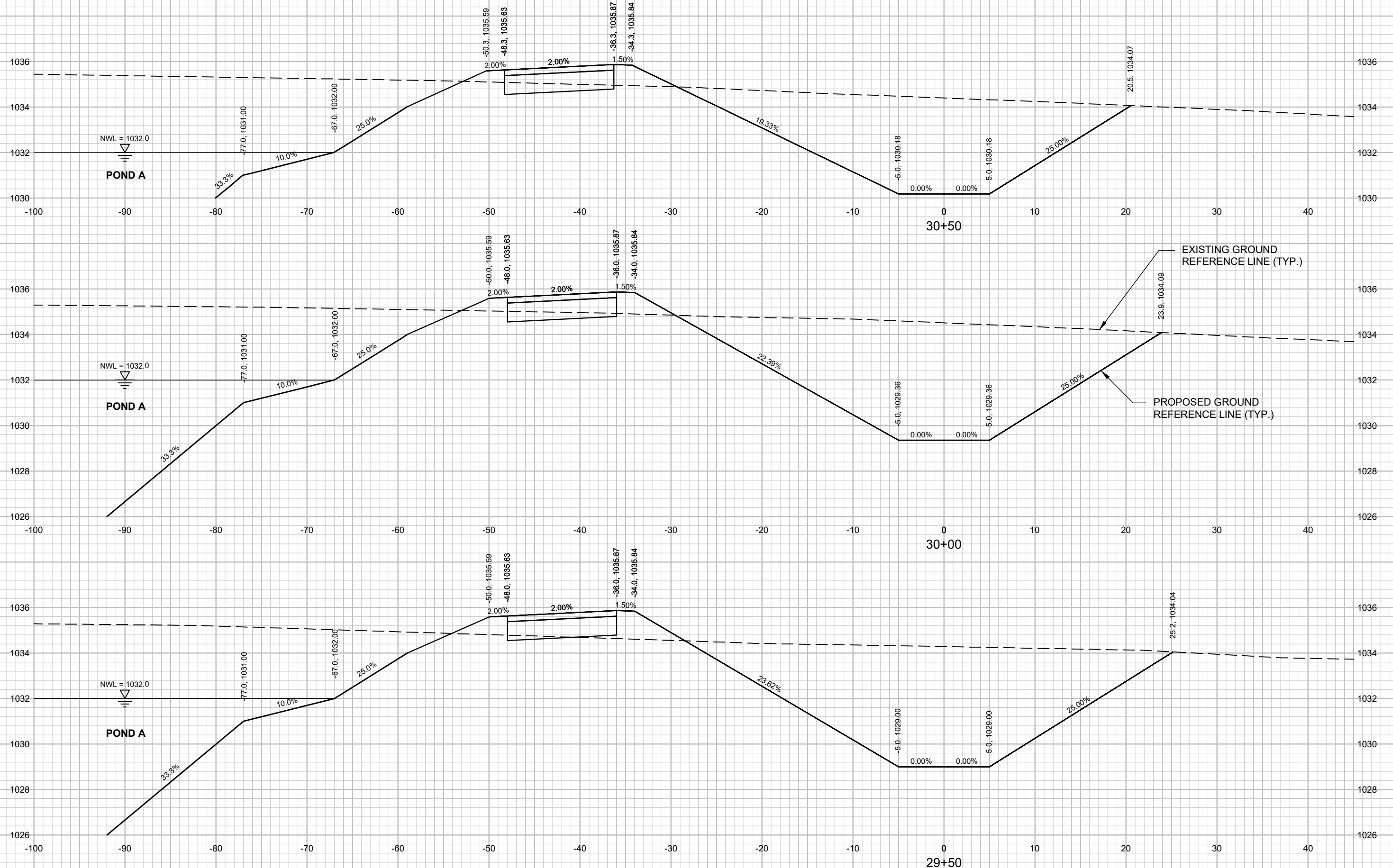
MAIN LINE CHANNEL CROSS SECTIONS
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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1020.129
 CITY OF MADISON
 CONTRACT NO: 9030
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POND A

POND A

POND A

EXISTING GROUND
REFERENCE LINE (TYP.)

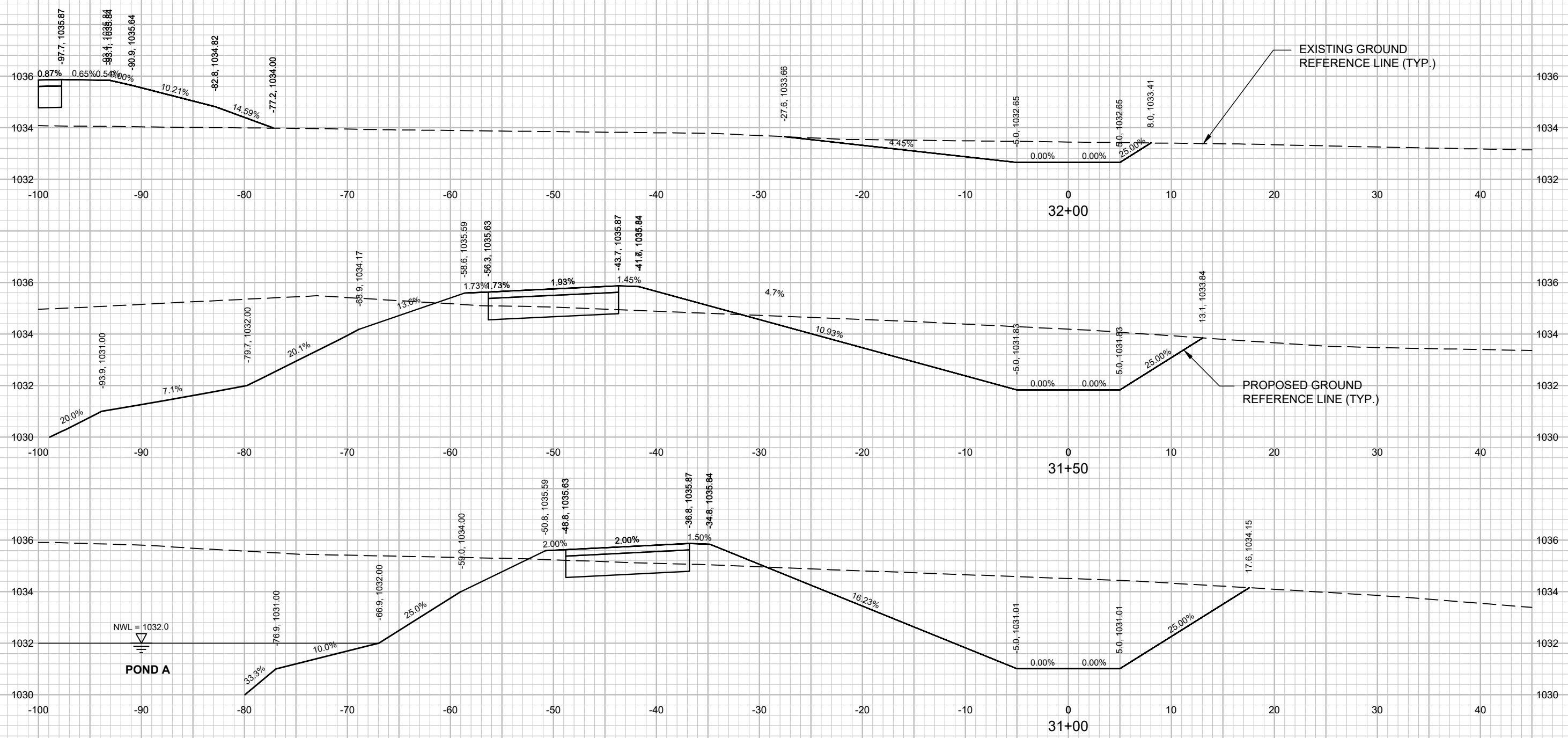
PROPOSED GROUND
REFERENCE LINE (TYP.)

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1020.129
CITY OF MADISON
9030
CONTRACT NO:

MAIN LINE CHANNEL CROSS SECTIONS
LOWER BADGER MILL CREEK FLOOD MITIGATION
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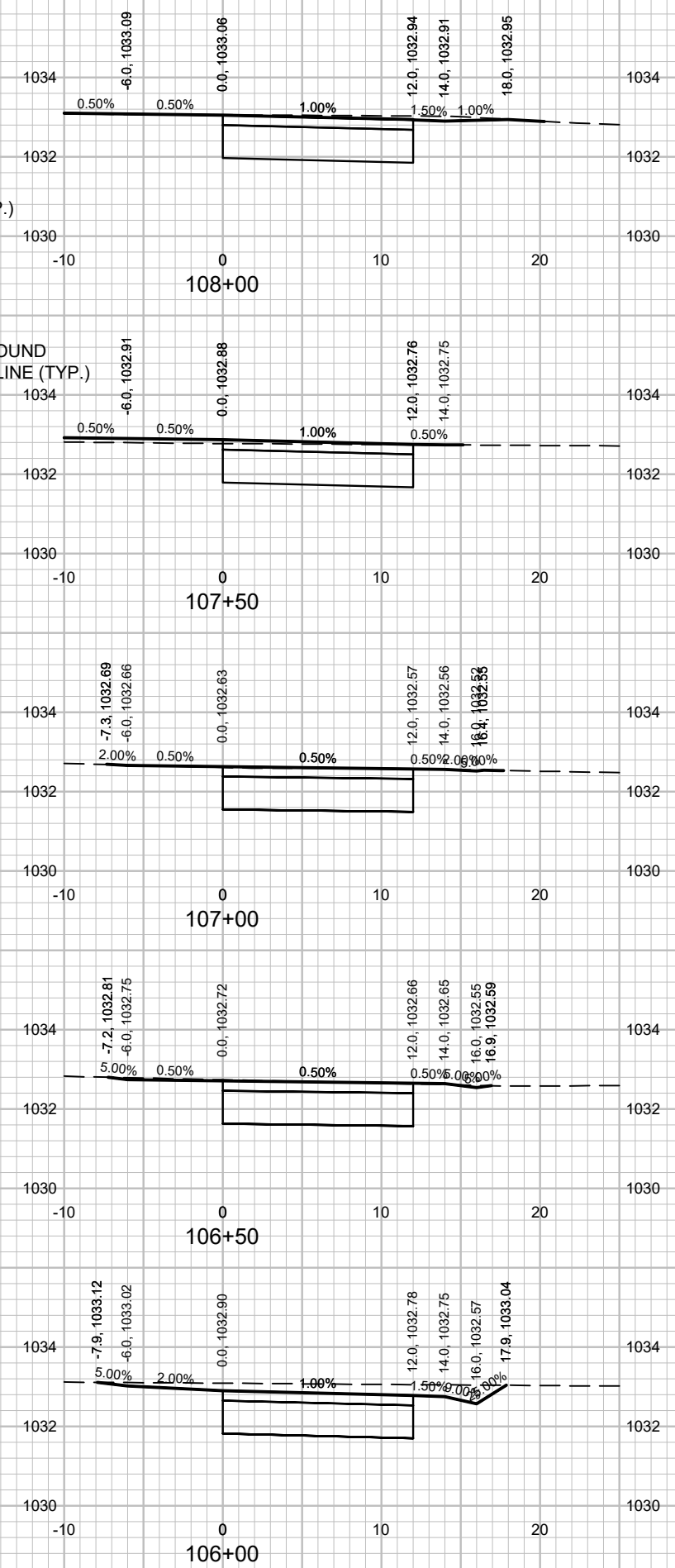
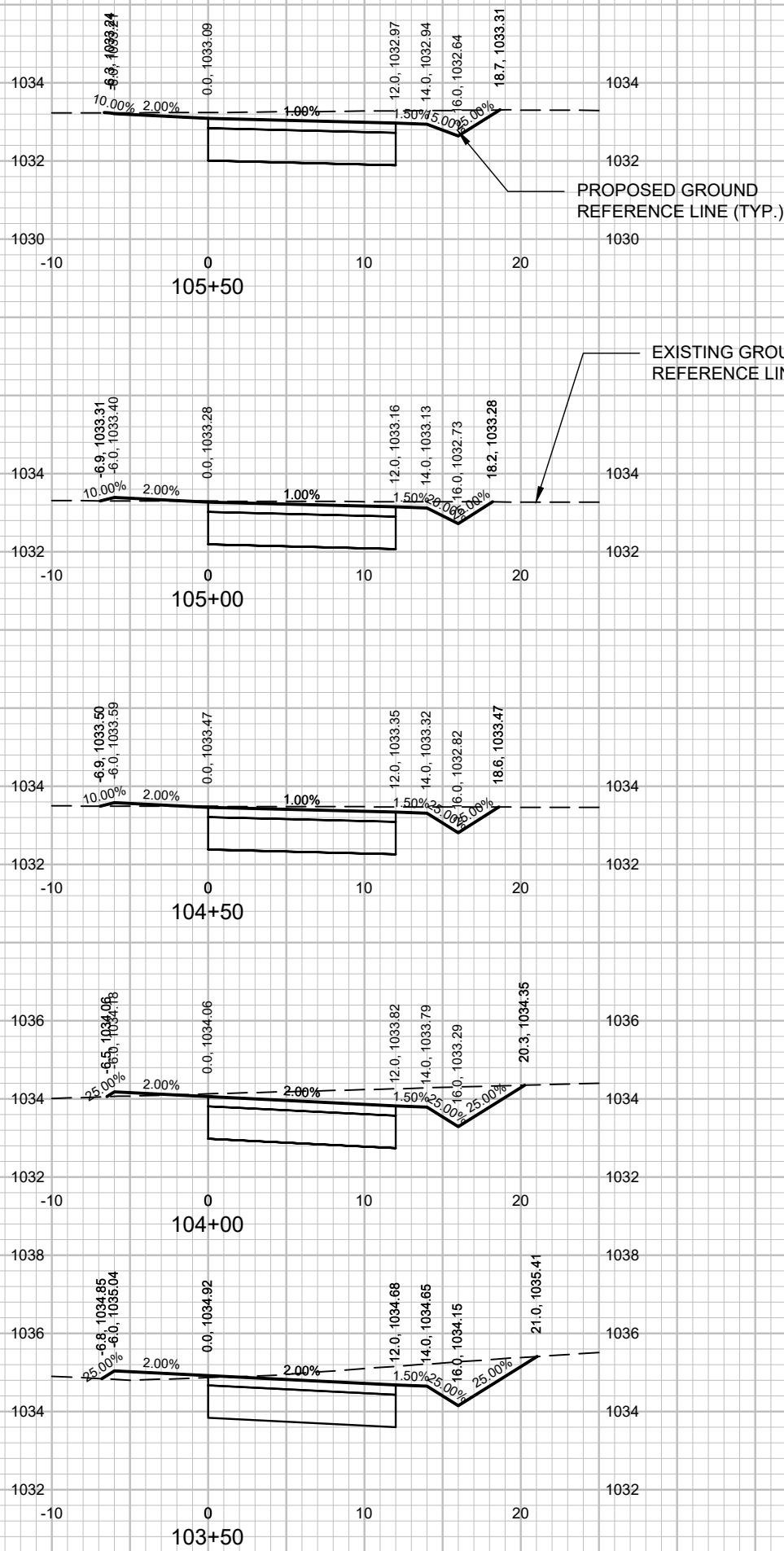
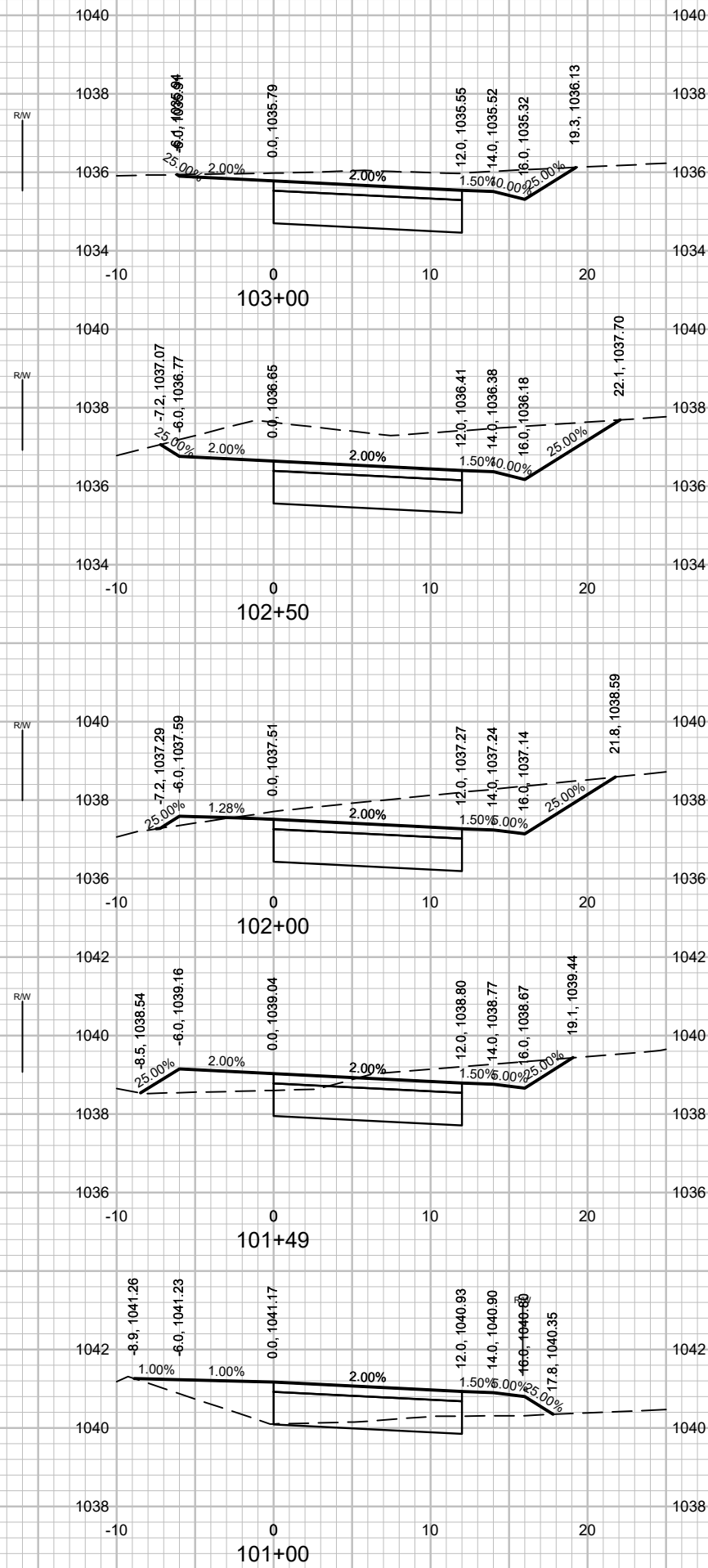
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1020.129
 CITY OF MADISON
 CONTRACT NO: 9030

MAIN LINE CHANNEL CROSS SECTIONS
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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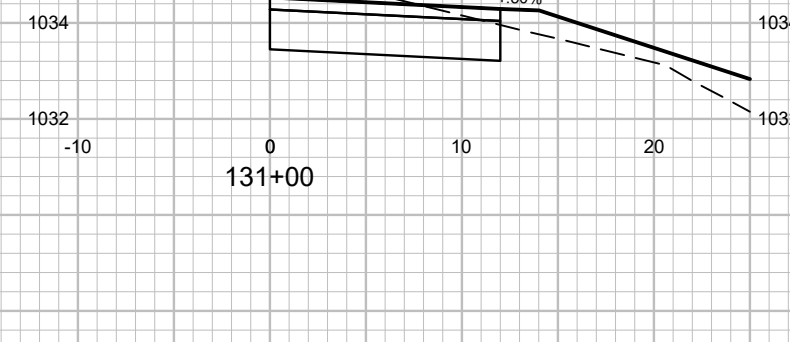
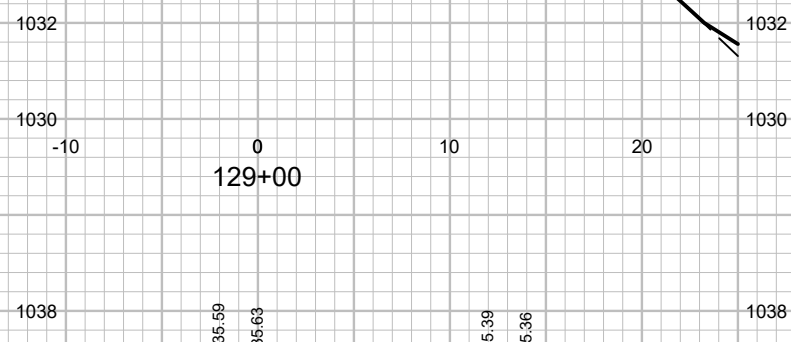
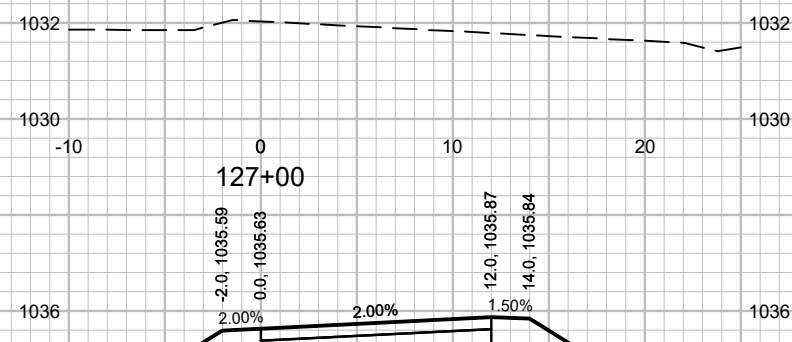
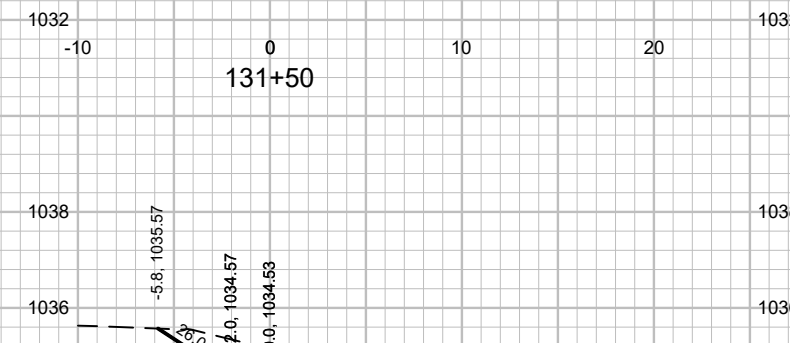
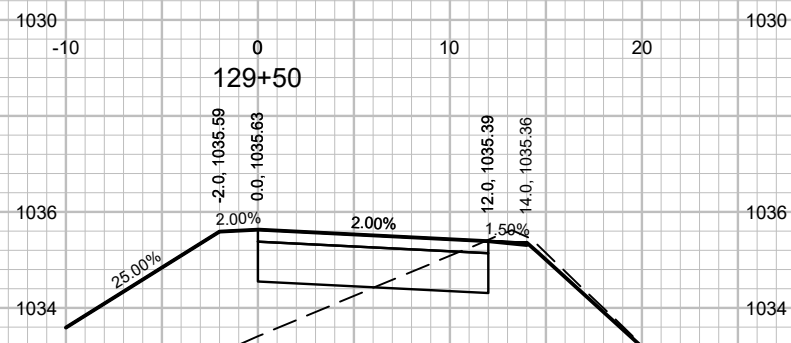
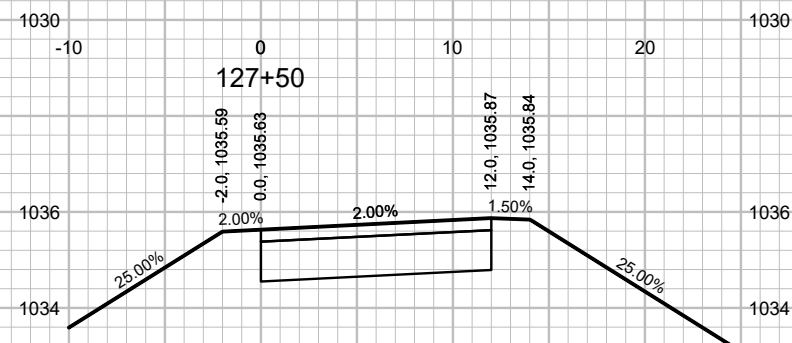
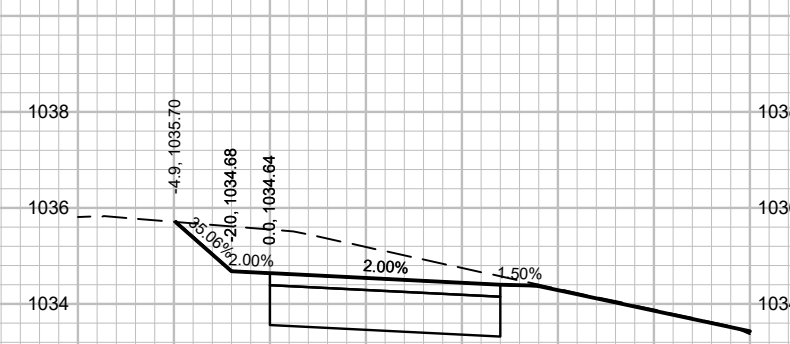
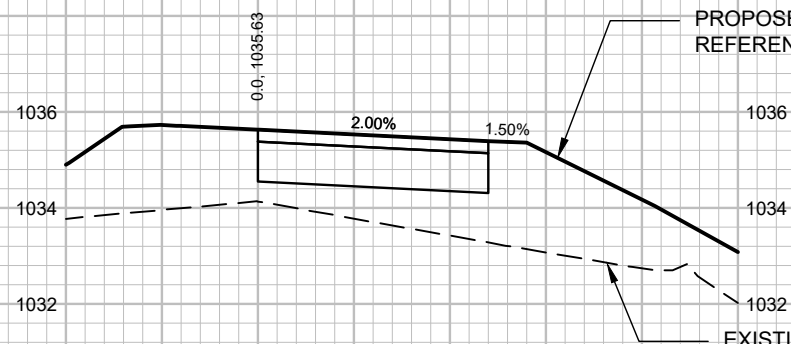
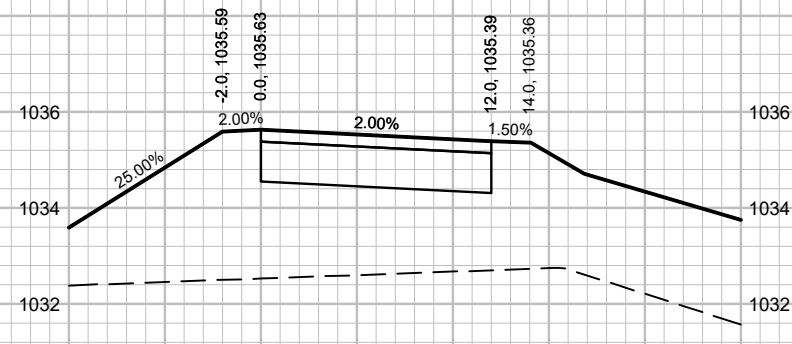
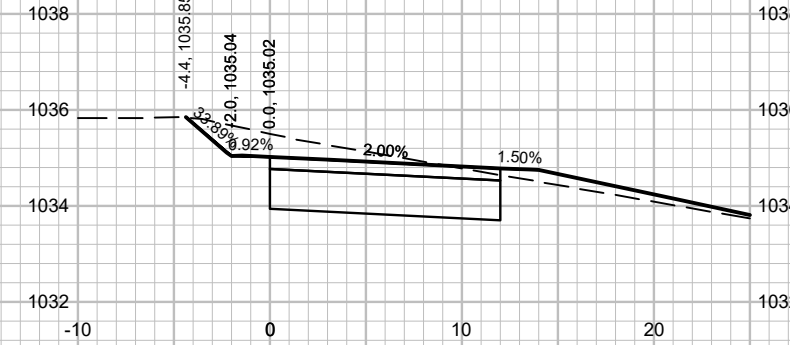
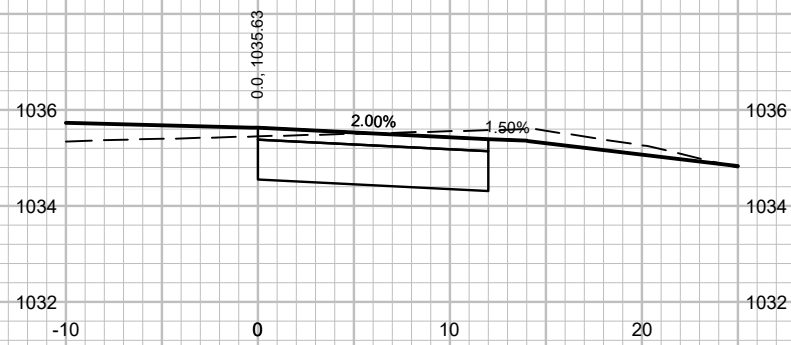
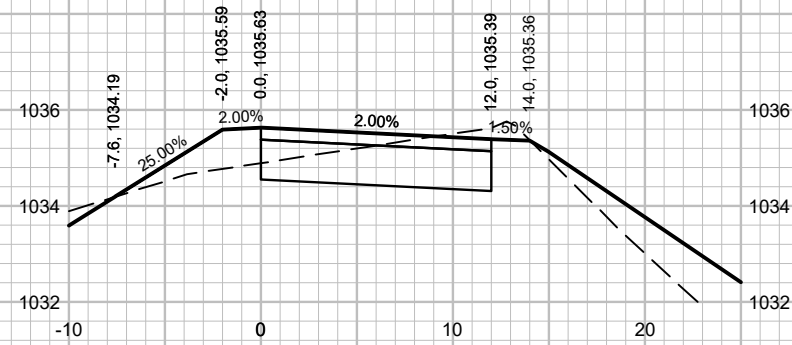
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CITY OF MADISON

CONTRACT NO: 9030

MADISON, WISCONSIN

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PROPOSED GROUND
REFERENCE LINE (TYP.)

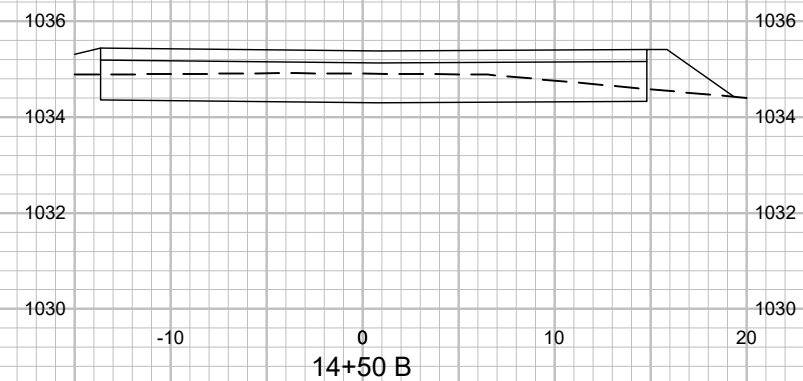
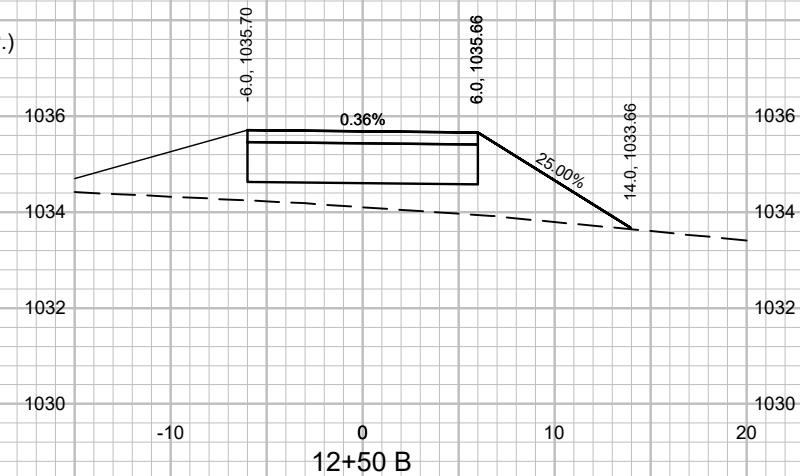
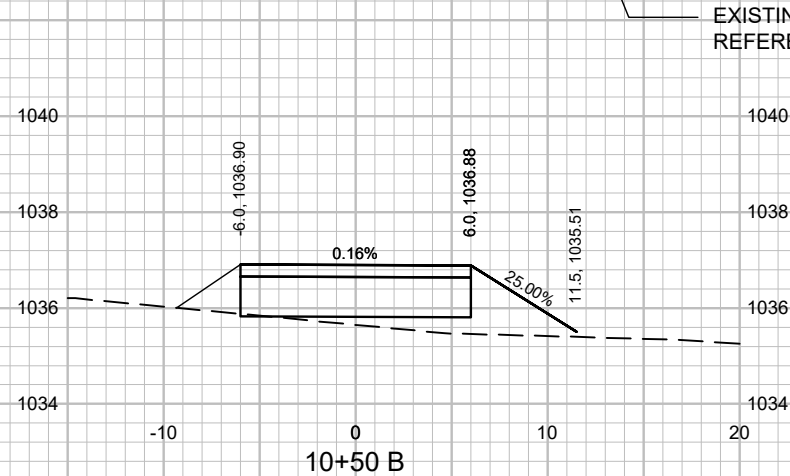
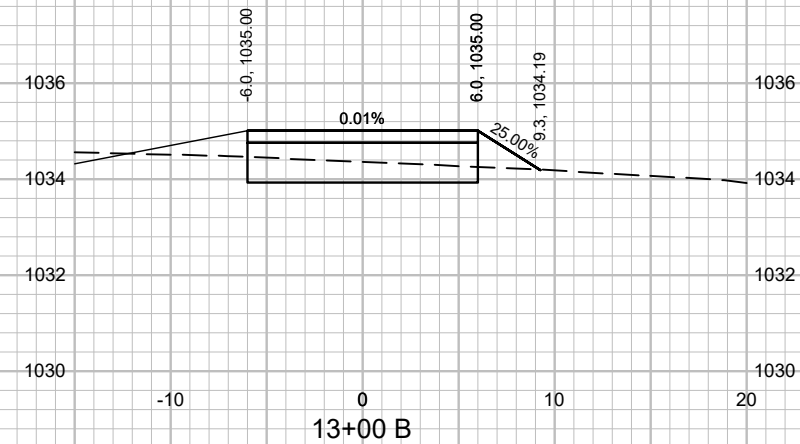
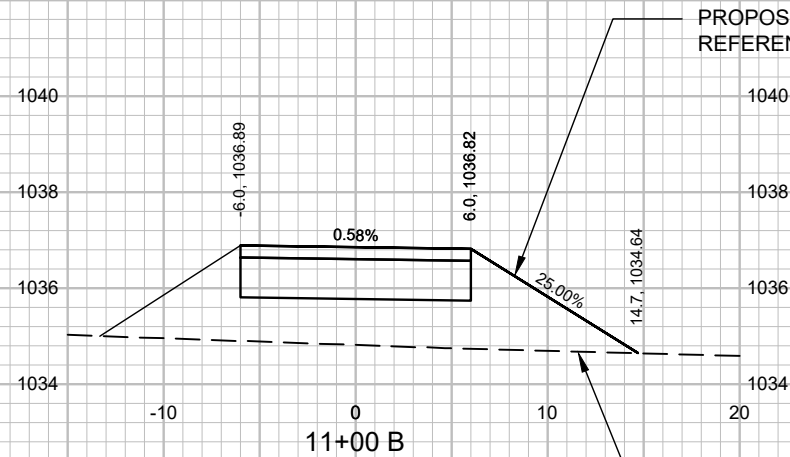
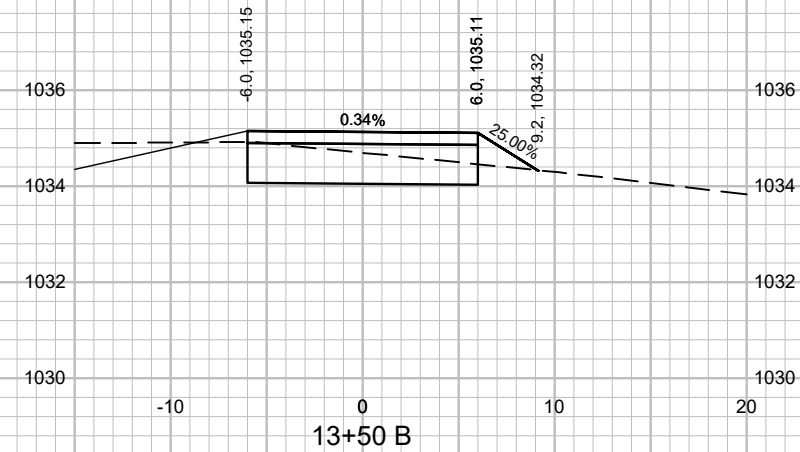
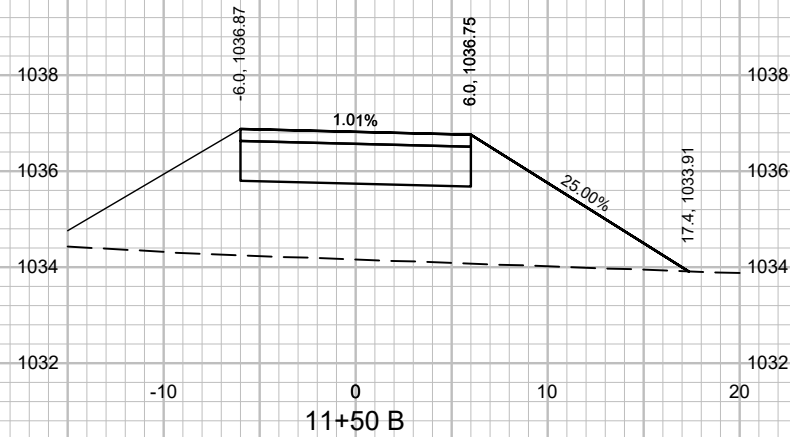
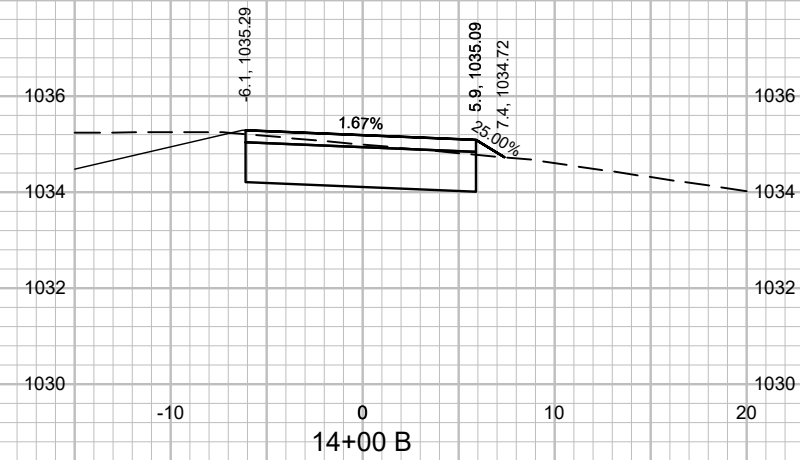
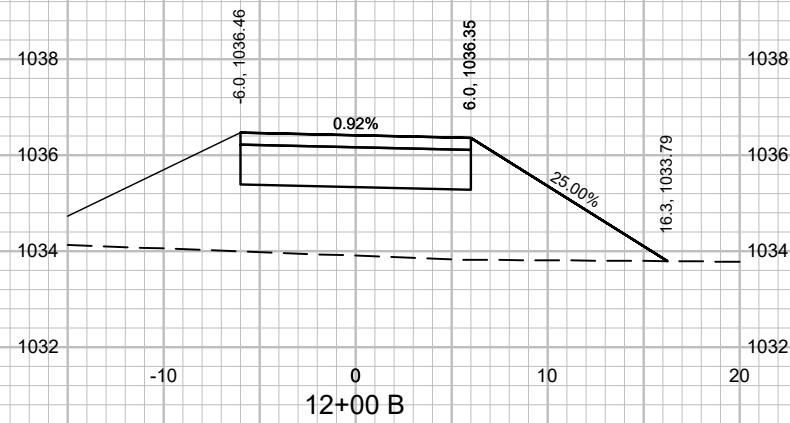
EXISTING GROUND
REFERENCE LINE (TYP.)

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CITY OF MADISON
CONTRACT NO.: 9030
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PROPOSED GROUND
REFERENCE LINE (TYP.)

EXISTING GROUND
REFERENCE LINE (TYP.)

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CITY OF MADISON

CONTRACT NO: 9030

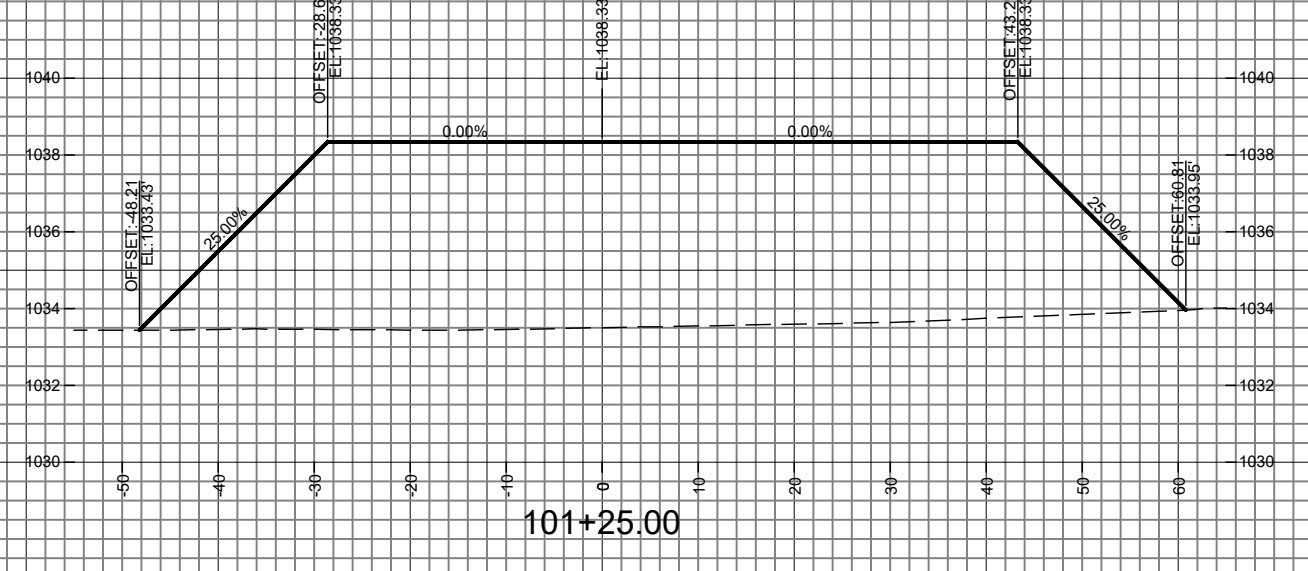
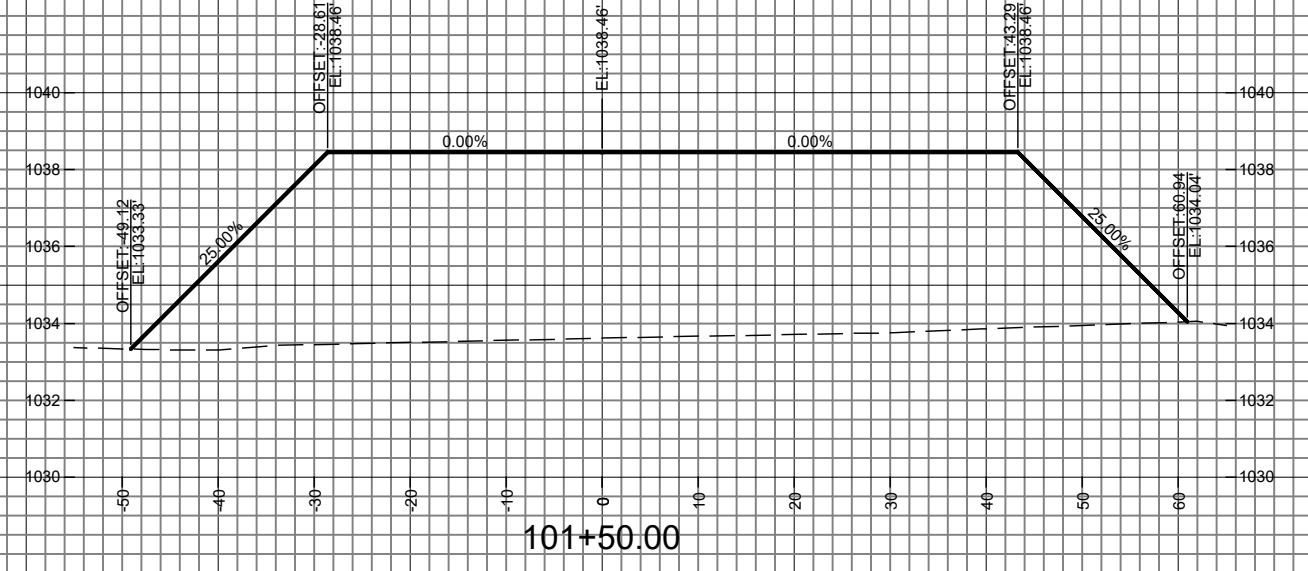
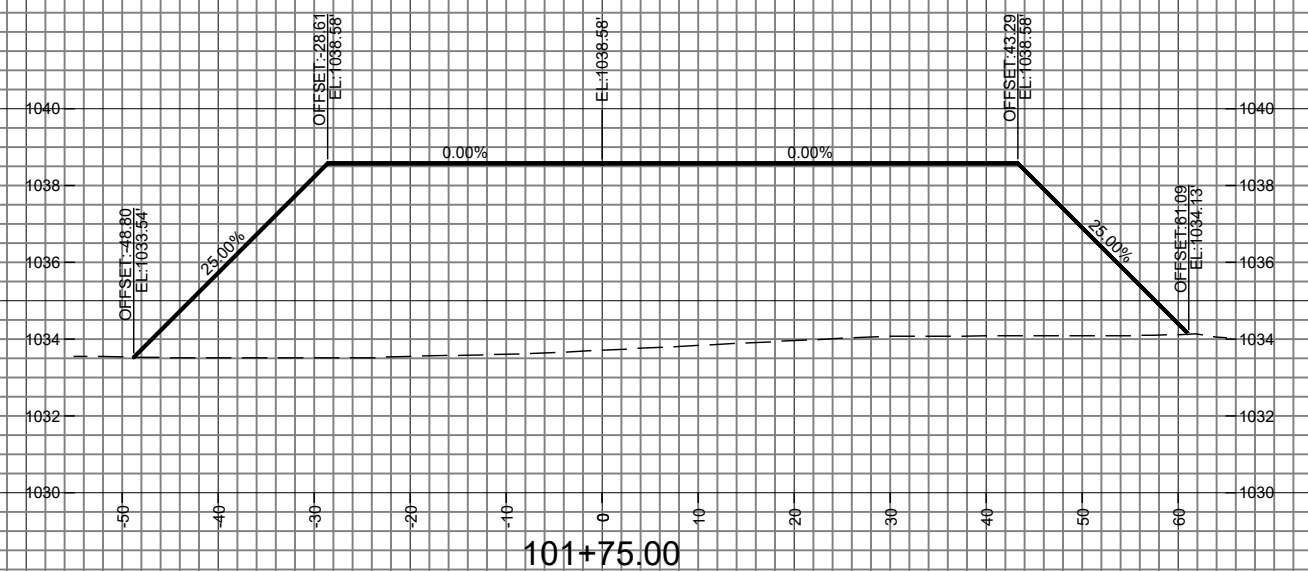
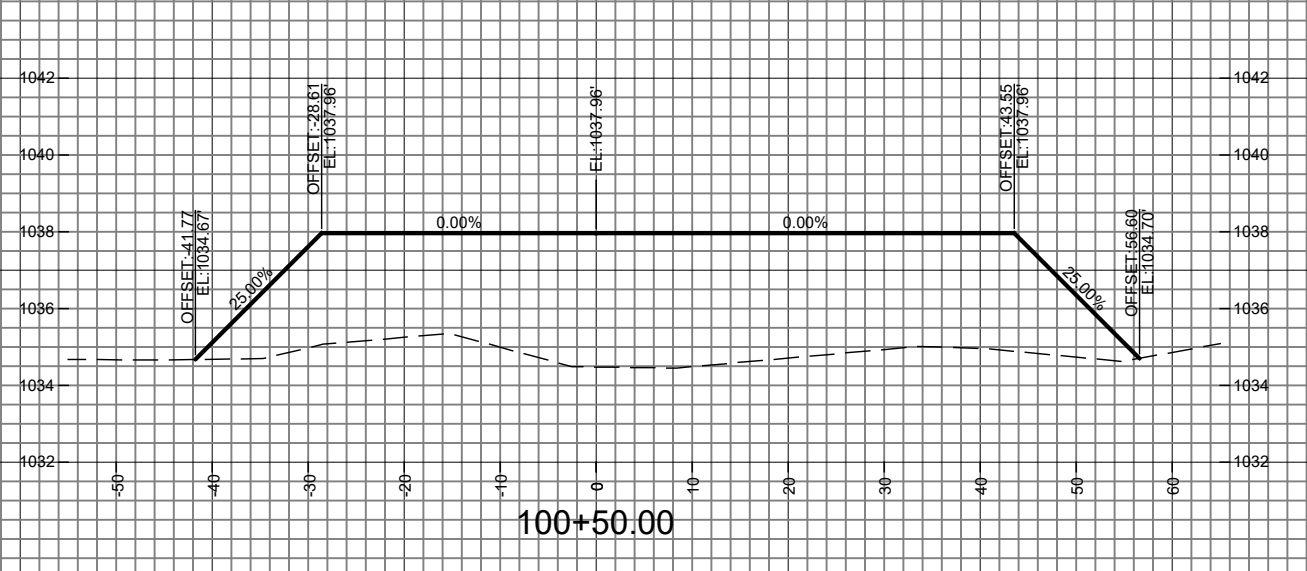
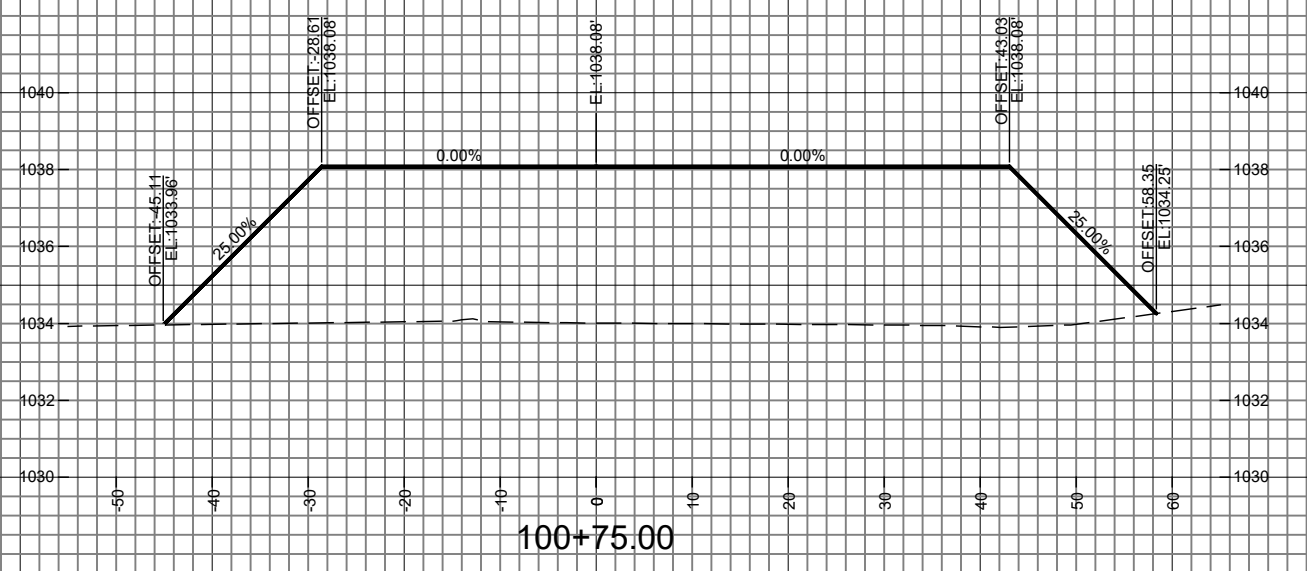
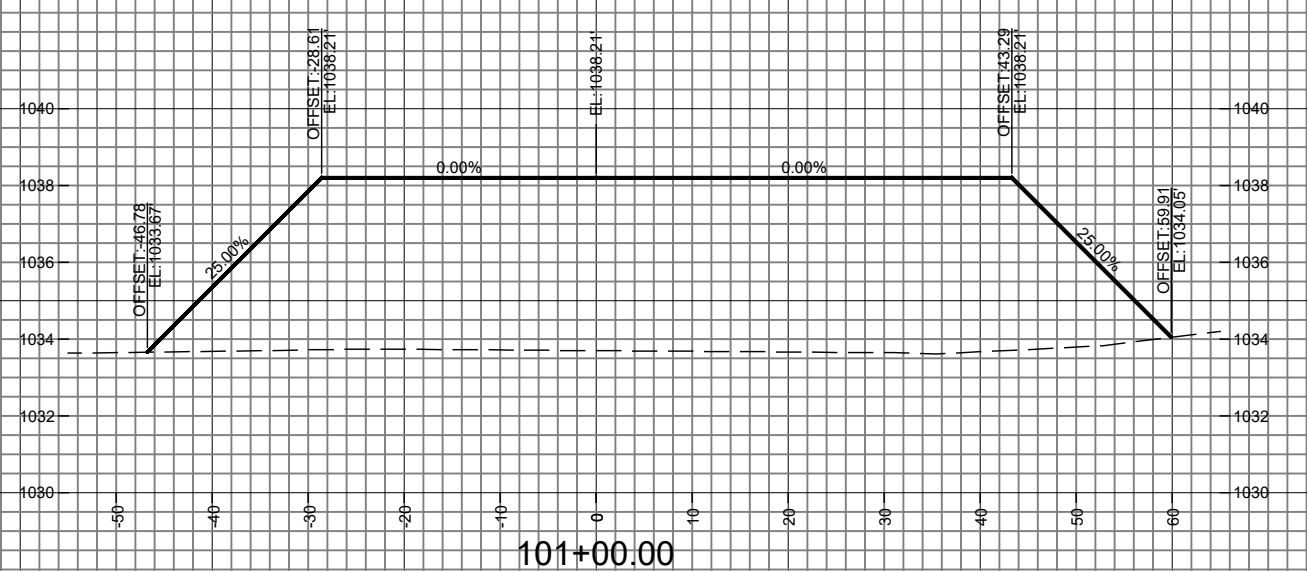
MAINTENANCE CROSS SECTIONS

LOWER BADGER MILL CREEK FLOOD MITIGATION

Designed By: JGG Date: 2/17/2023 1:36 PM Scale: 1"=10'

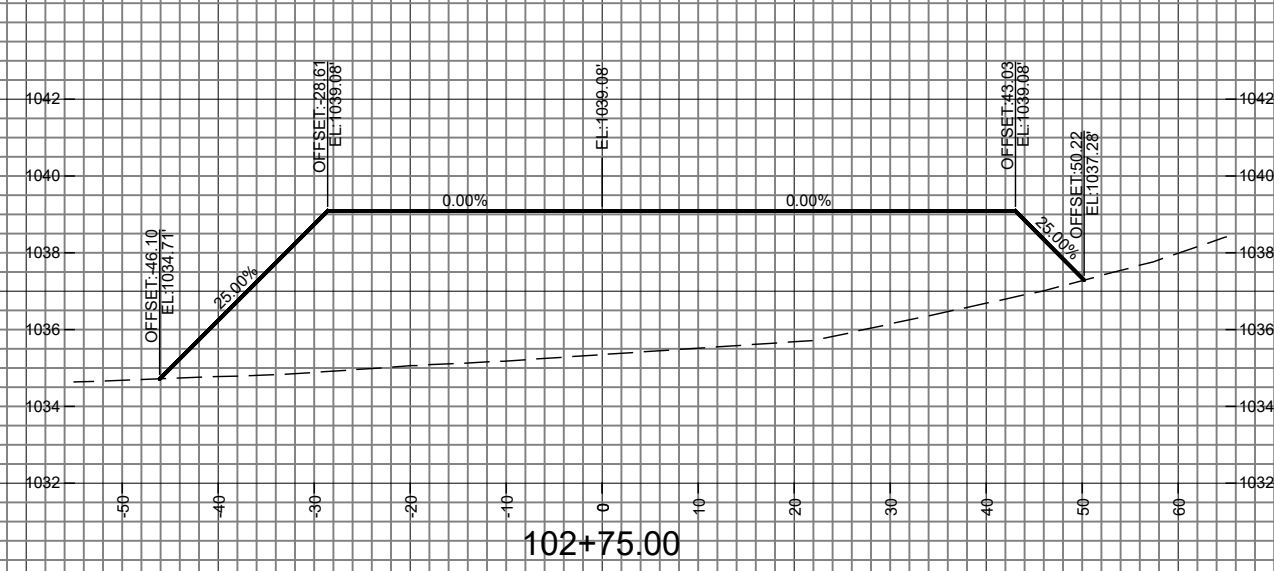
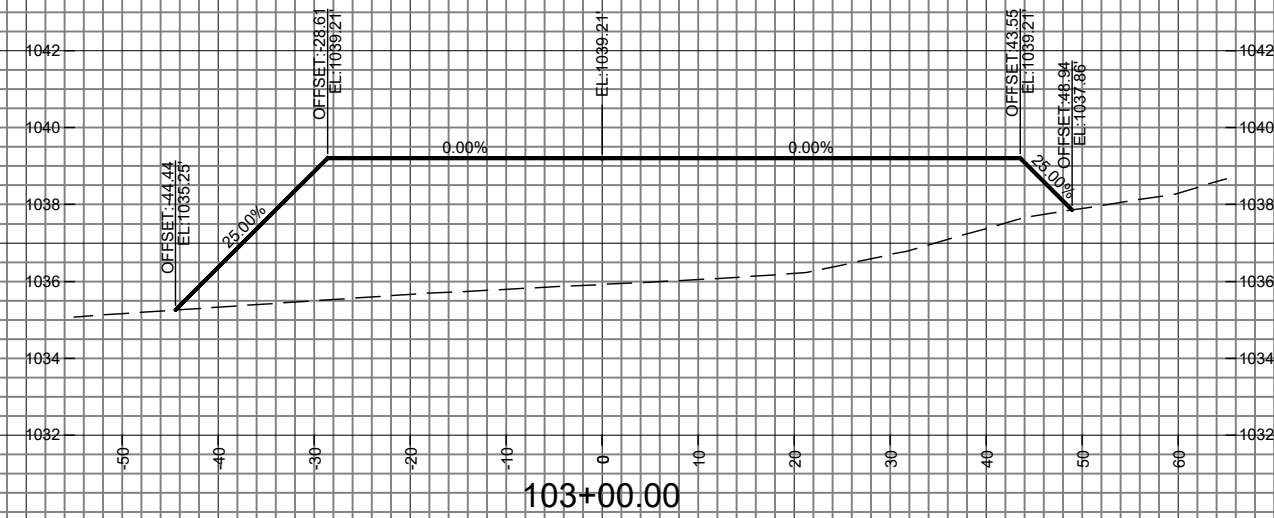
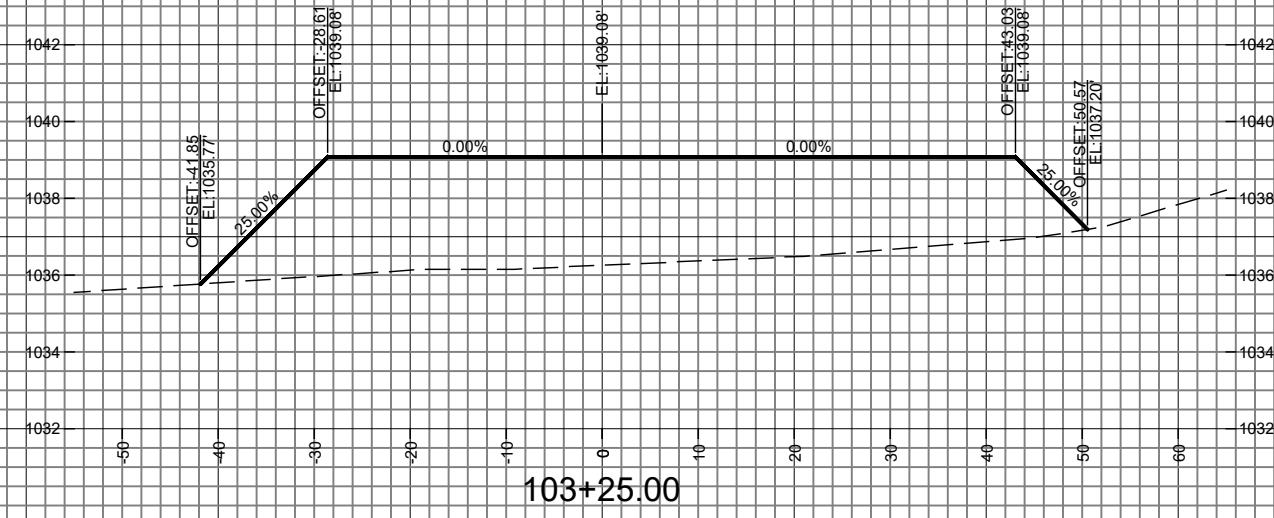
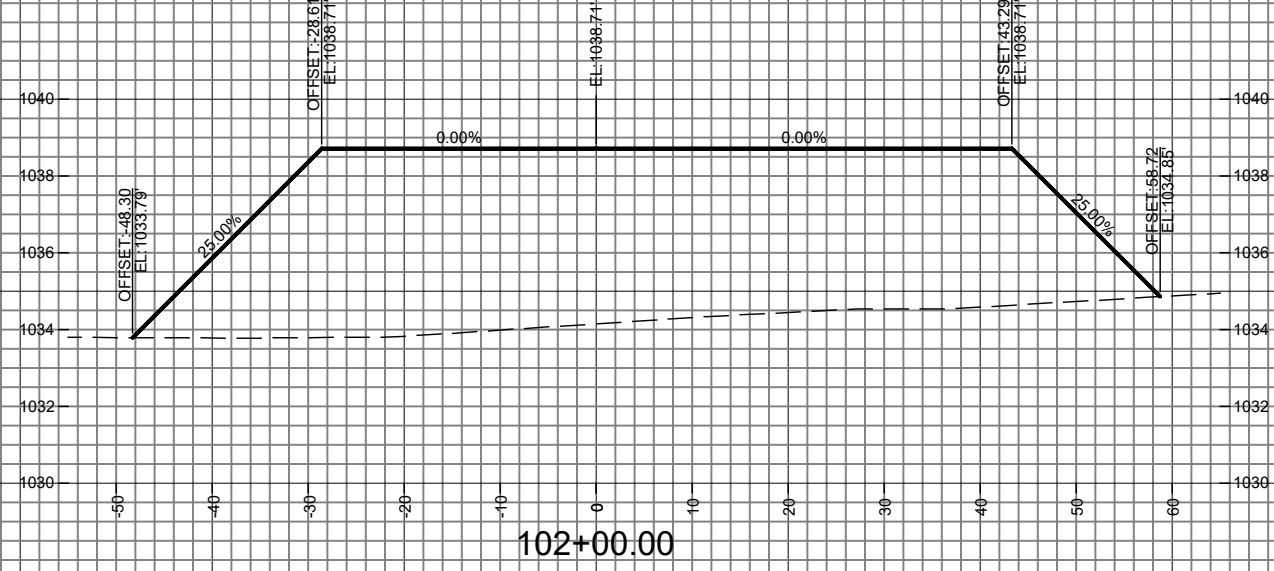
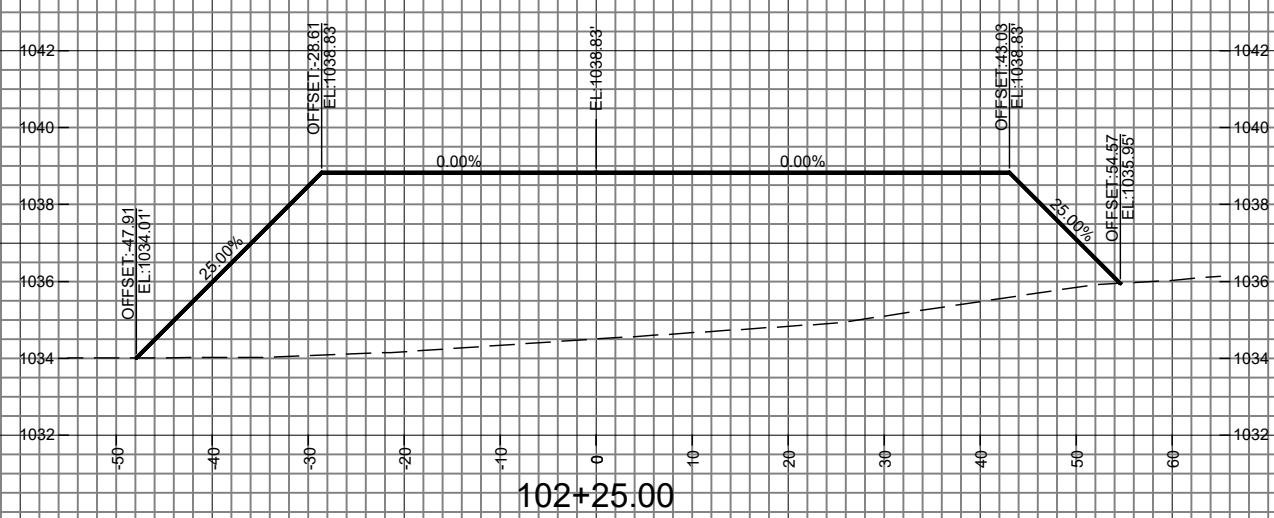
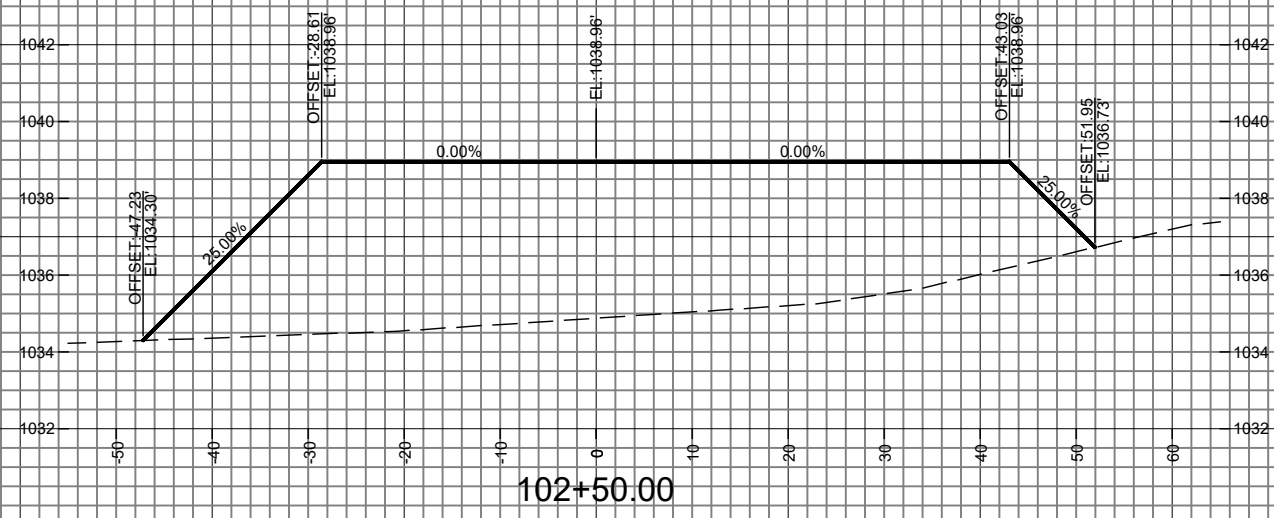
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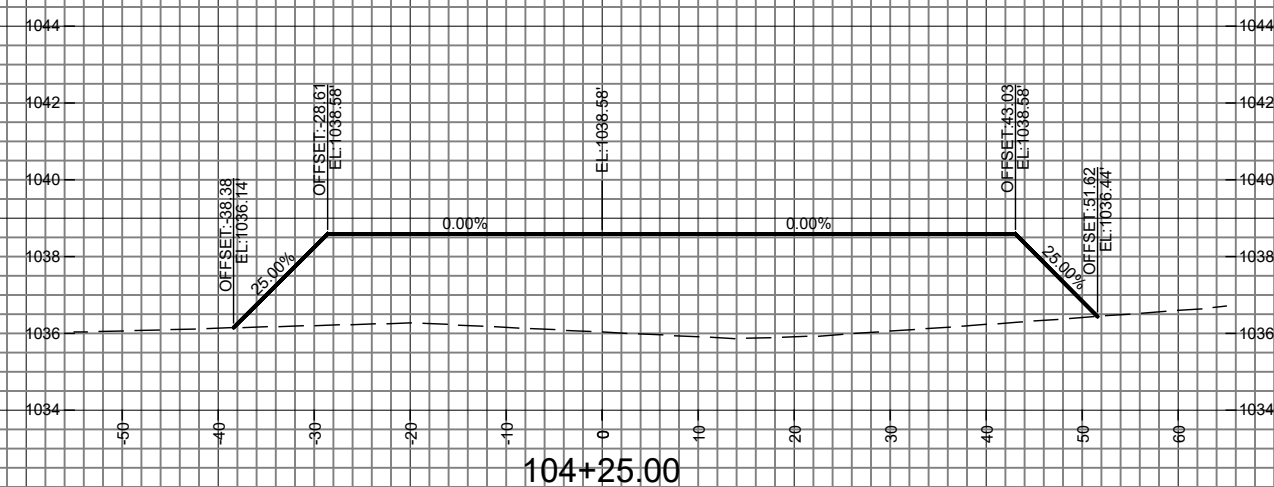
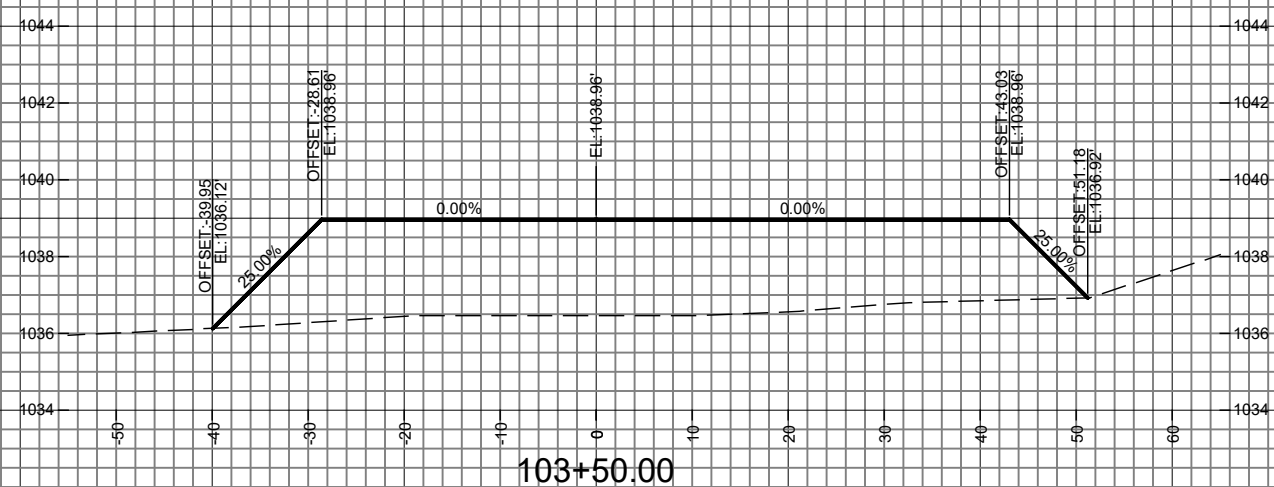
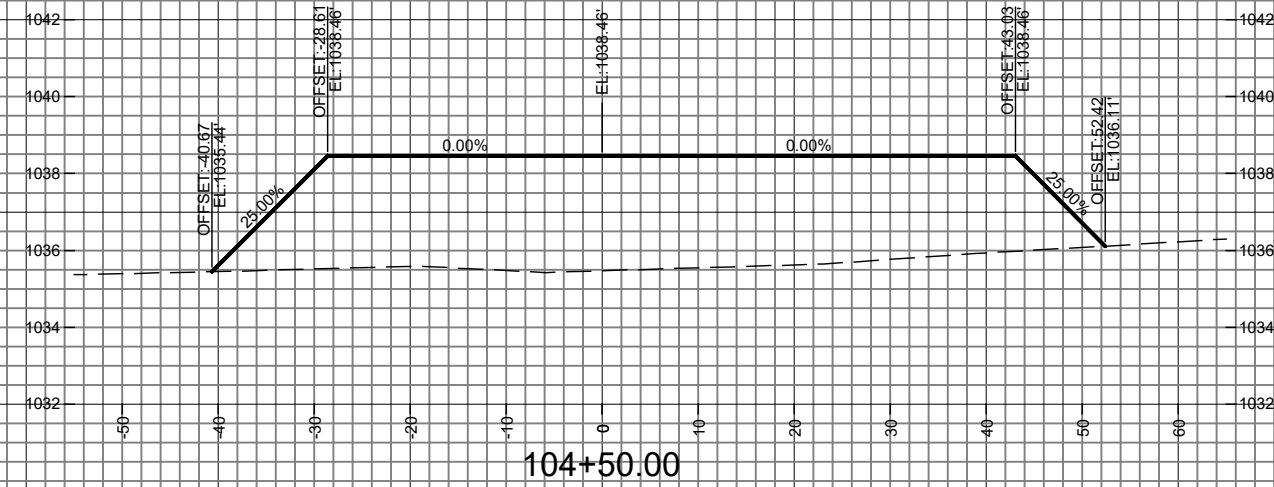
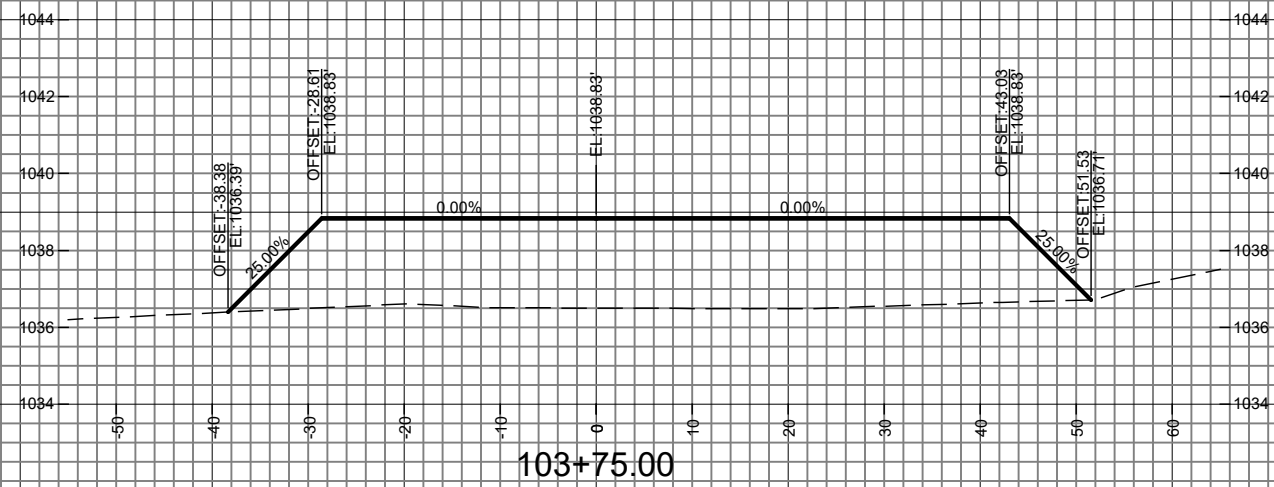
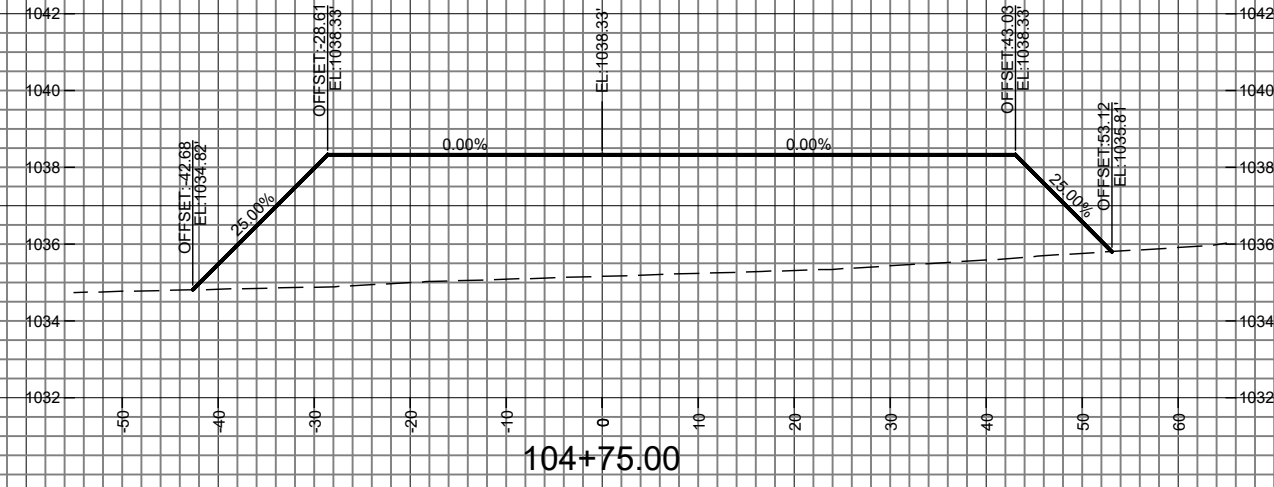
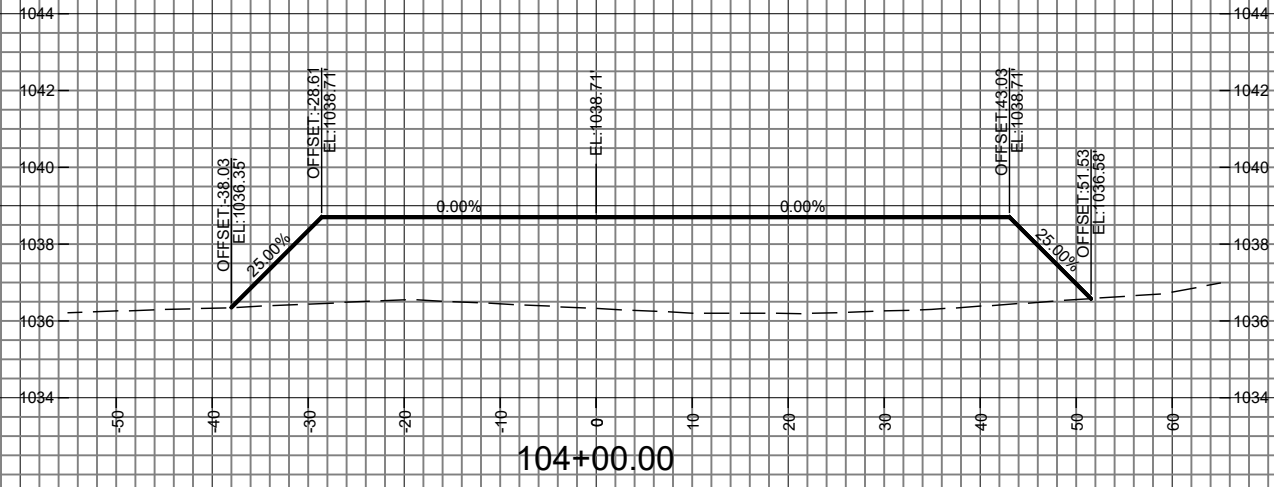
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Scale: #####	60

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 CITY OF MADISON
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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61	

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 CITY OF MADISON
 LOWER BADGER MILL CREEK FLOOD MITIGATION
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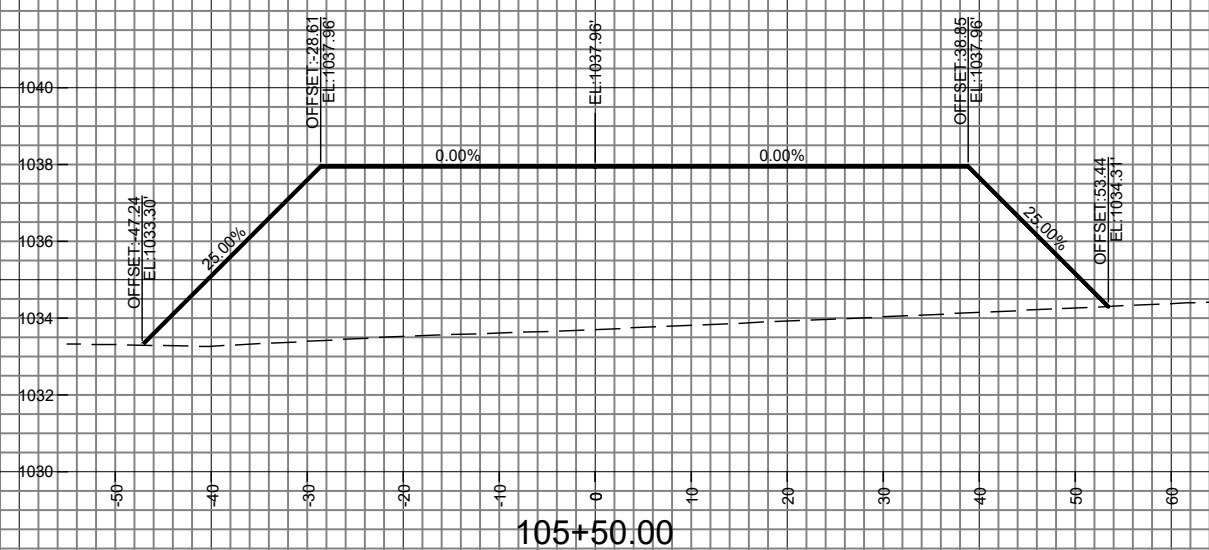


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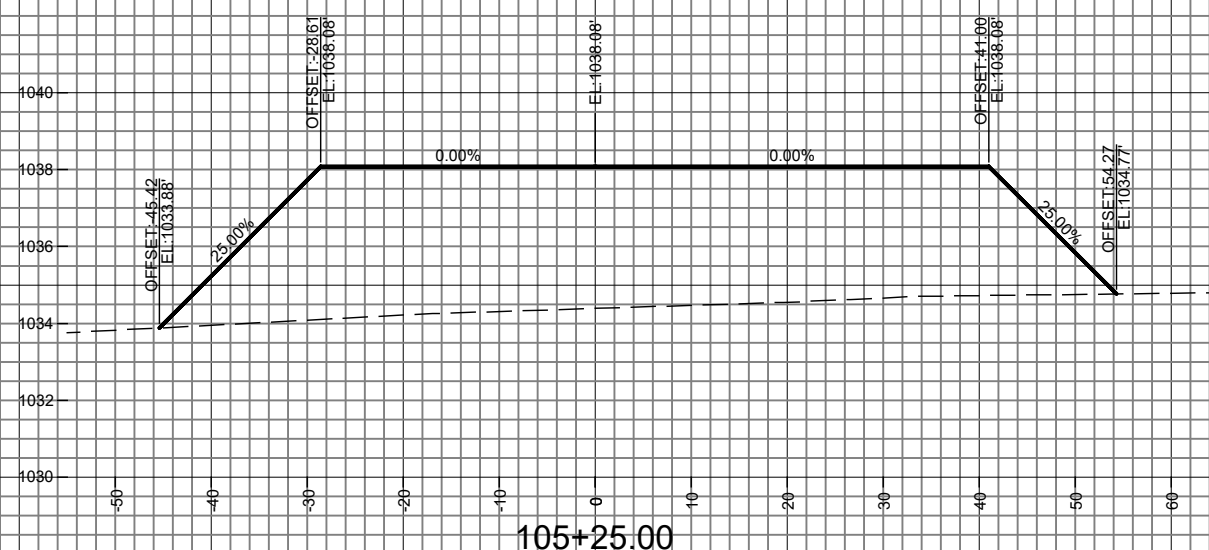
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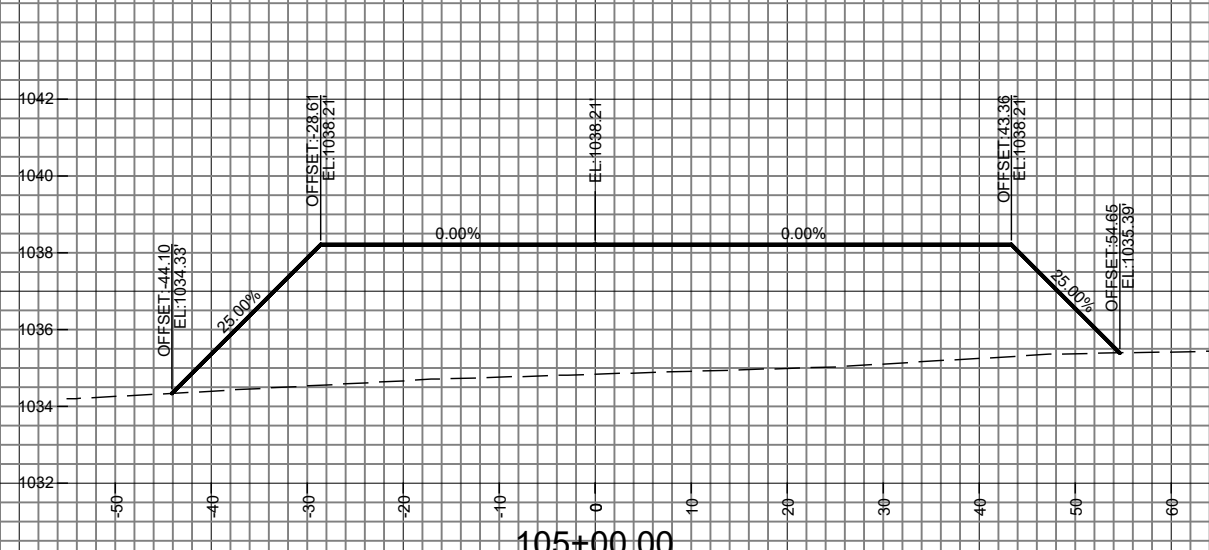




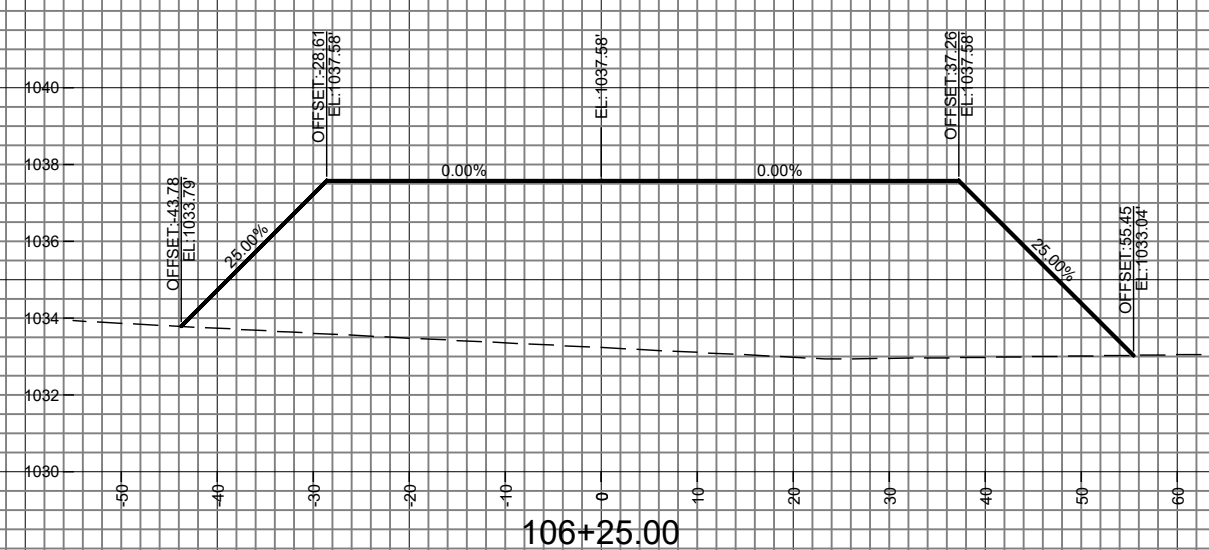
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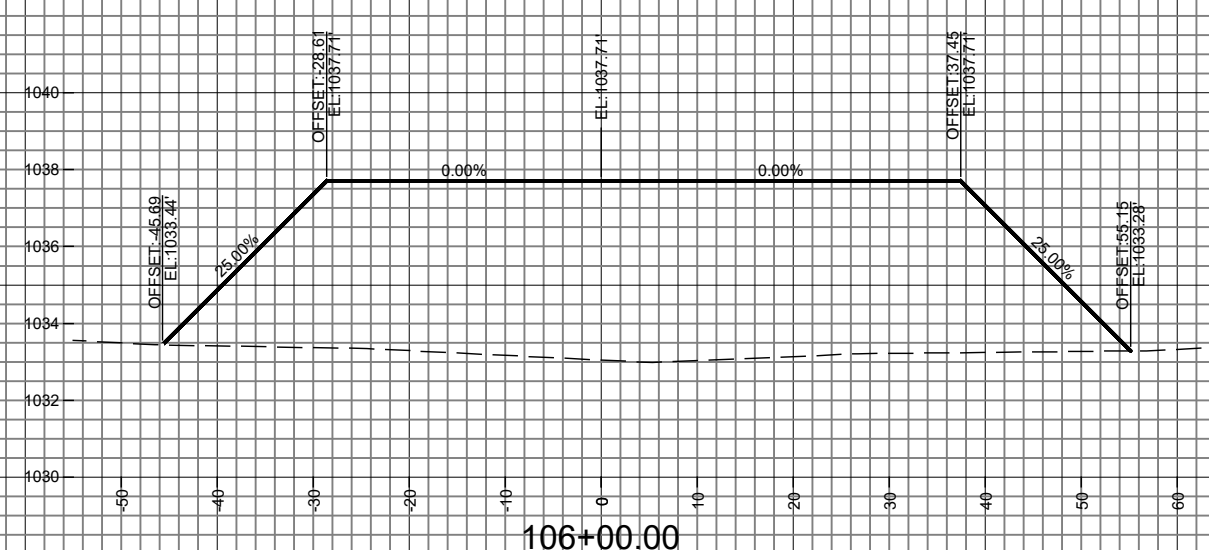
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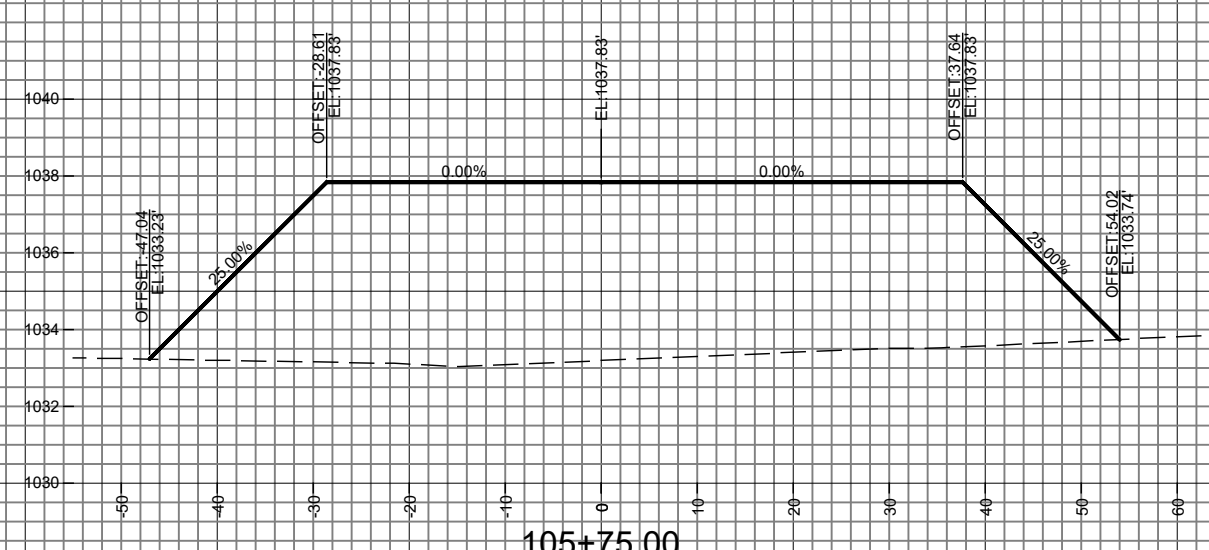
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106+25.00



106+00.00

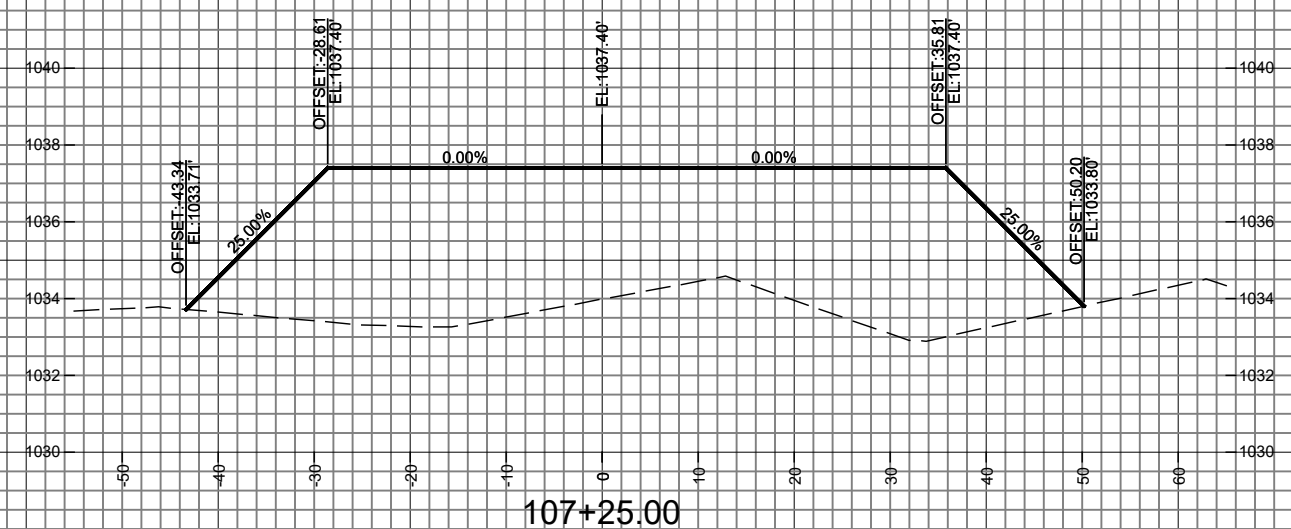
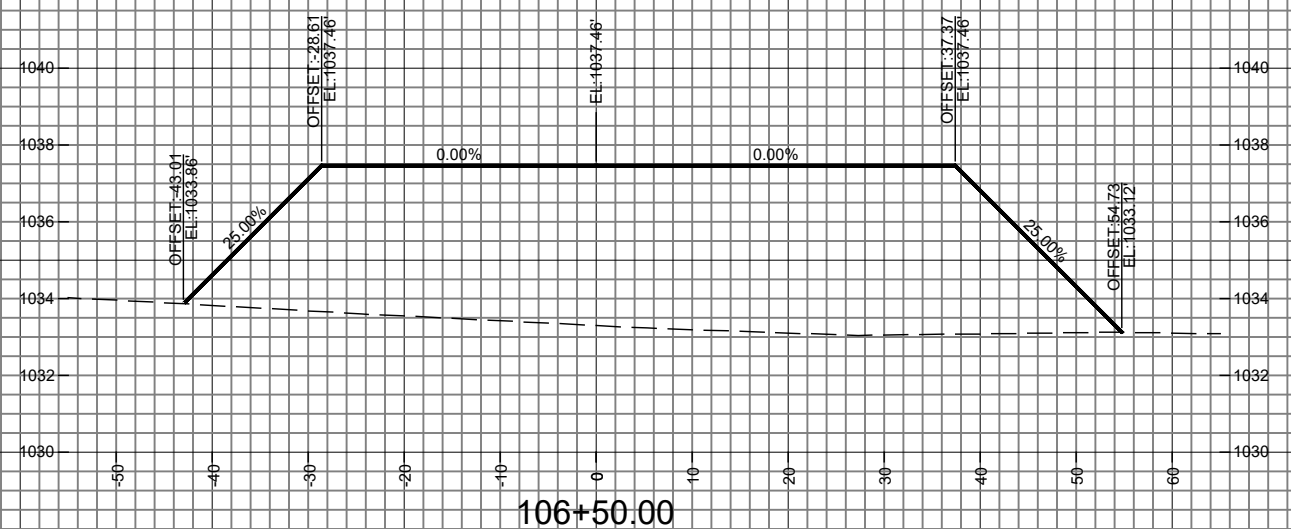
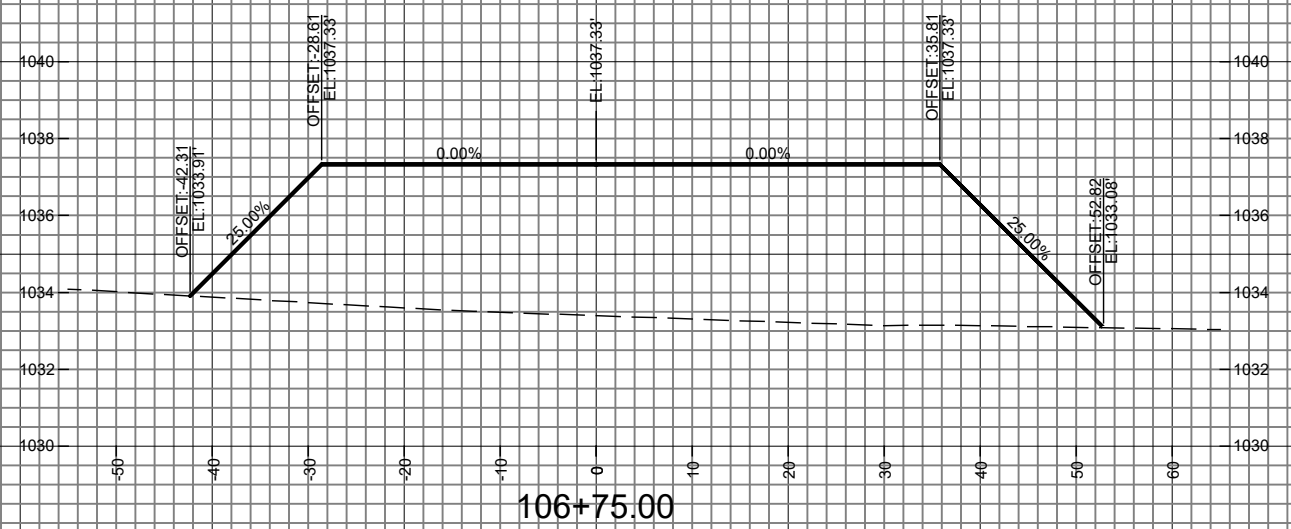
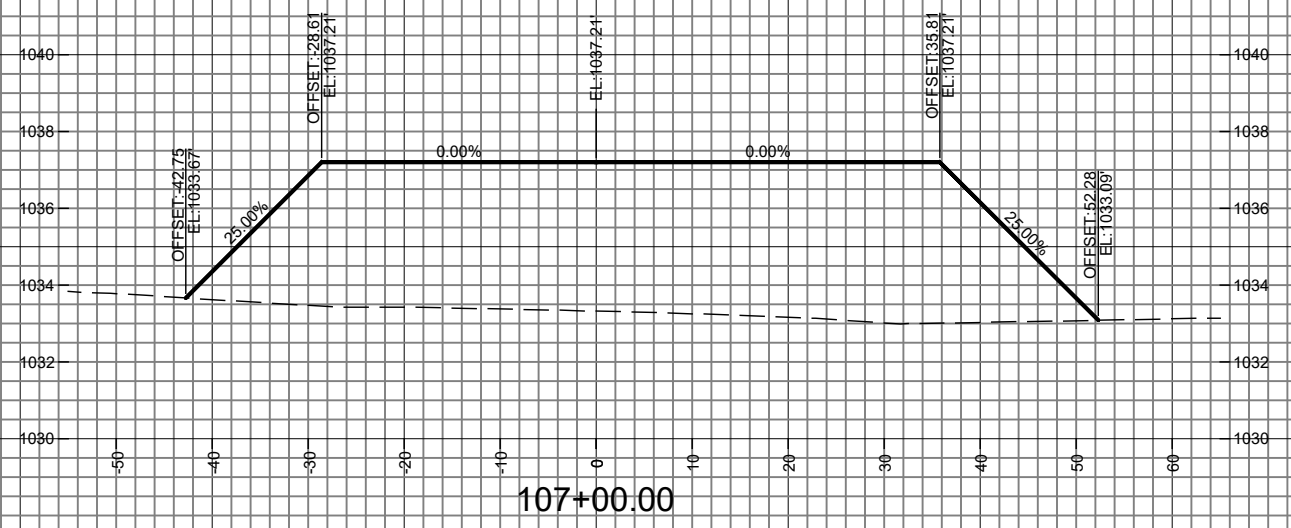


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CITY OF MADISON

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LOWER BADGER MILL CREEK FLOOD MITIGATION

BLUE HARVEST LANE CROSS SECTIONS

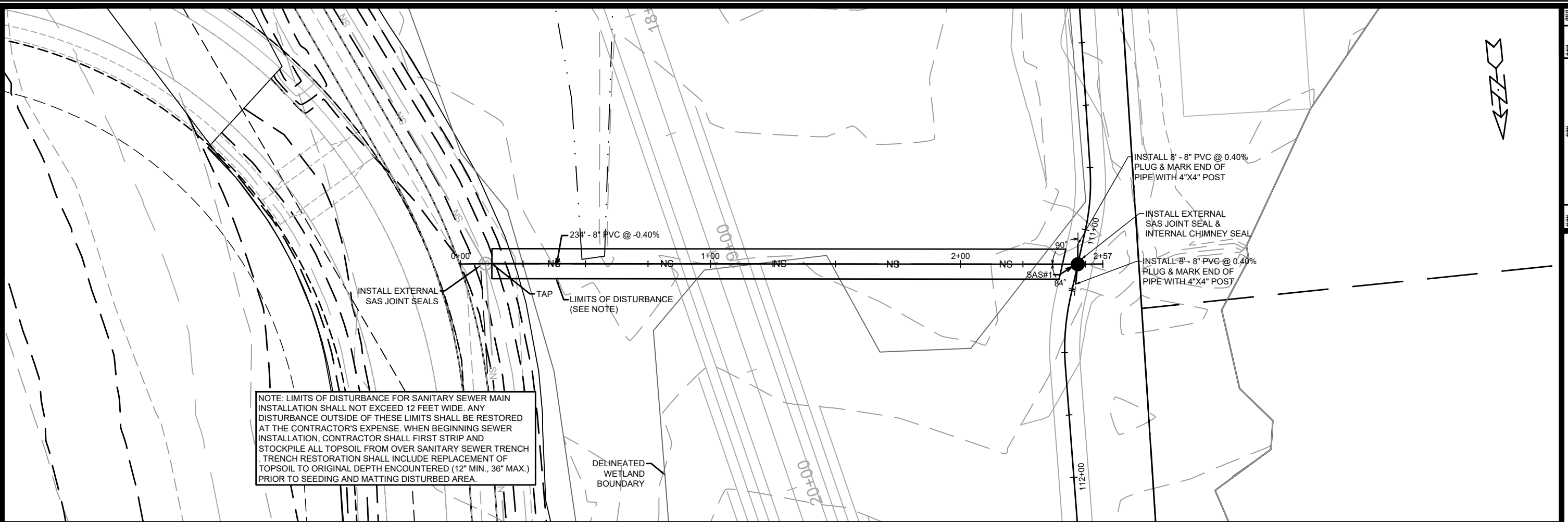
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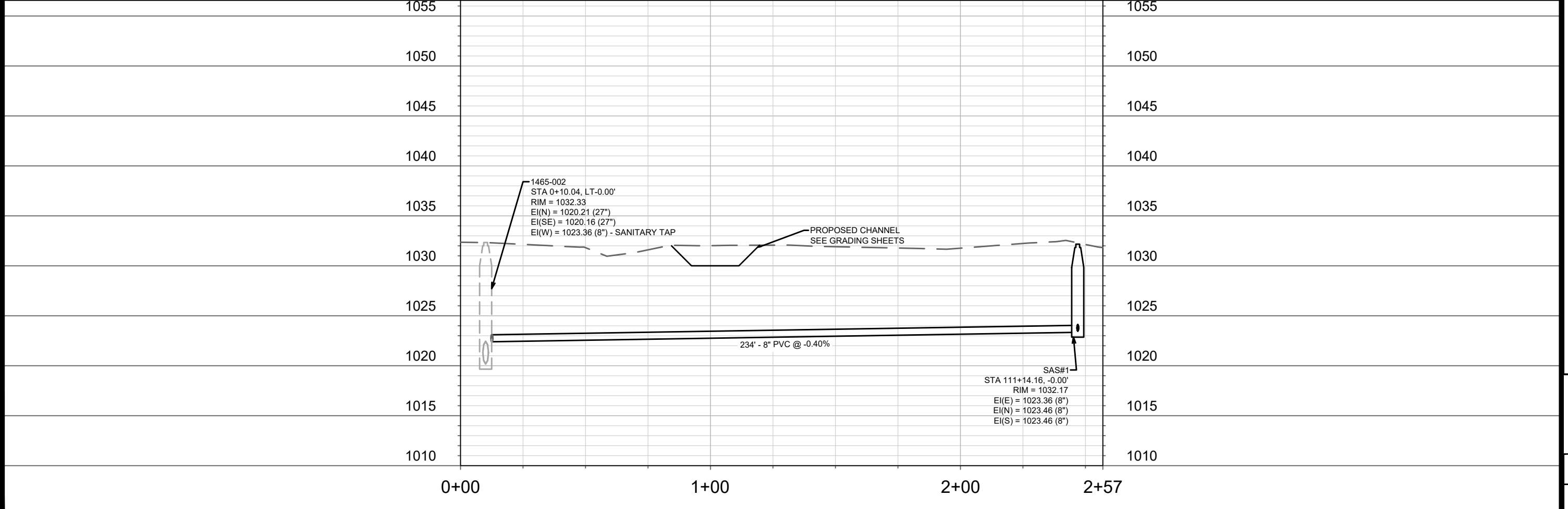


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NOTE: LIMITS OF DISTURBANCE FOR SANITARY SEWER MAIN INSTALLATION SHALL NOT EXCEED 12 FEET WIDE. ANY DISTURBANCE OUTSIDE OF THESE LIMITS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. WHEN BEGINNING SEWER INSTALLATION, CONTRACTOR SHALL FIRST STRIP AND STOCKPILE ALL TOPSOIL FROM OVER SANITARY SEWER TRENCH. TRENCH RESTORATION SHALL INCLUDE REPLACEMENT OF TOPSOIL TO ORIGINAL DEPTH ENCOUNTERED (12" MIN., 36" MAX.) PRIOR TO SEEDING AND MATTING DISTURBED AREA.



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11063
MADISON, WI
CONTRACT NO: 9030
SAN-1
LOWER BADGER MILL CREEK FLOOD MITIGATION
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SANITARY SEWER SCHEDULE

LOWER BADGER MILL CREEK PONDS

SHEET NO.

PROJECT NO. 11063

66

SANITARY SEWER SCHEDULE

CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
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MAINTENANCE PATH

SAS#1	111+14.16 'MP'	CL	1032.17	1023.36	8.81	[1]; [2]
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SANITARY STRUCTURE ADJUSTMENTS

SAS NO.	STATION	LOCATION (OFFSET)	EX. TOC ELEV.	PROP. ELEV.	ADJUST. DIFF.	NOTES
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EX SAS 1465-002	0+10.00	CL	1032.33	1035.59	3.26	[2]; [3]
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PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
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MAINTENANCE PATH

EX SAS 1465-002	SAS#1	1022.42	1023.36	234	0.40%	8"	SDR-35	-
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SPECIFIC NOTES:

[1] INSTALL INTERNAL CHIMNEY SEAL

[2] INSTALL EXTERNAL JOINT WRAPS

[3] SANITARY SEWER TAP