



Madison, Wisconsin

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CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS

STORM SEWER

SANITARY SEWER

WATER

BURIED ELECTRIC

OVERHEAD ELECTRIC

POWER POLE

ADA COMPLIANT RAMP W/
DETECTABLE WARNING FIELD

COMBUSTIBLE FLUIDS

G

ST

SAN

W

E

OH

NOTES:

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

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

CITY OF MADISON

CITY ENGINEERING DIVISION

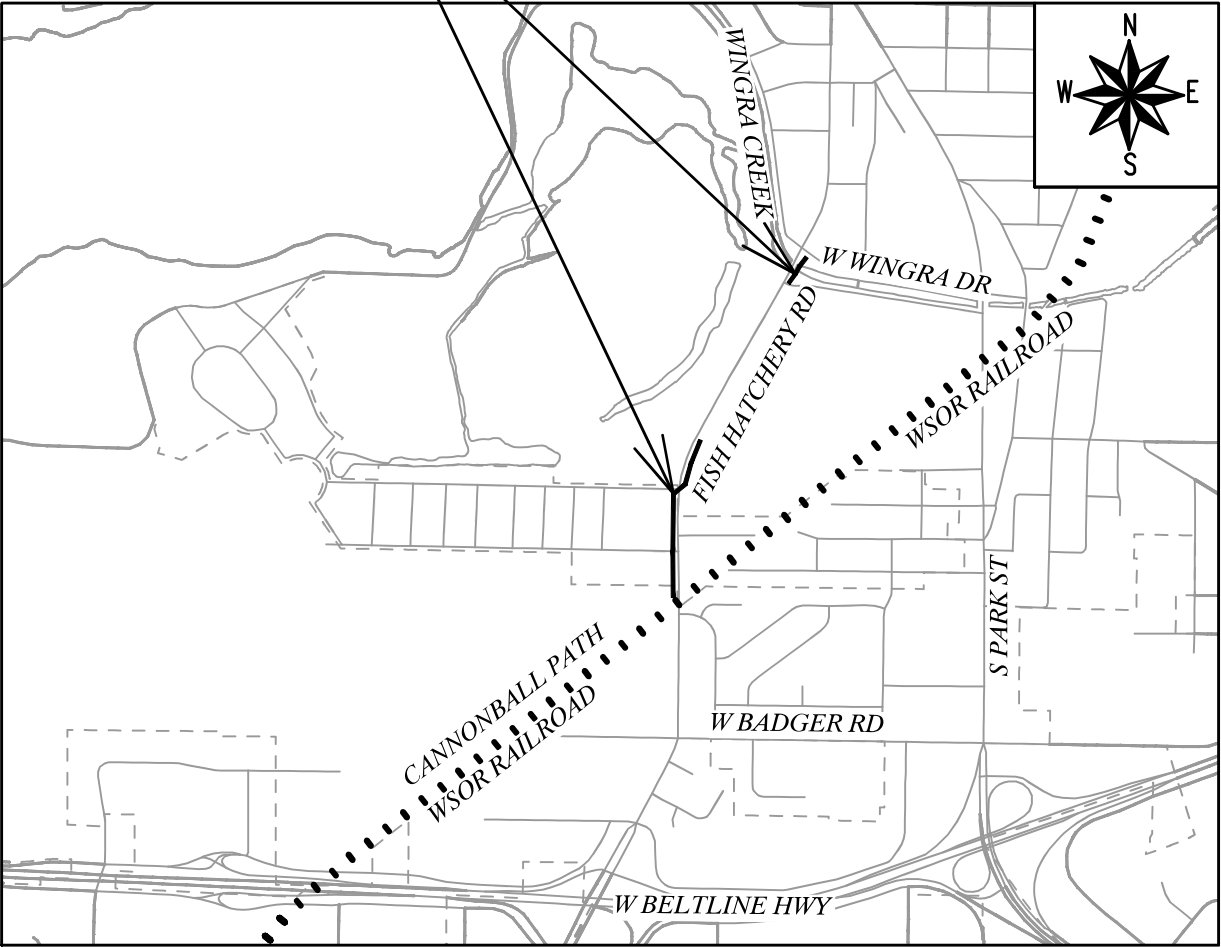
DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

CANNONBALL PATH: PHASE 6

PROJECT
LOCATION

CITY PROJECT NO. 10153
CONTRACT NO. 7431



EARTHWORK SUMMARY:	
EXCAVATION CUT (MEASURED PLAN QUANTITY)	1700 CY
ESTIMATED UNDISTRIBUTED UNDERCUT	480 CY
TOTAL UNCLASSIFIED EXCAVATION CUT	2190 CY

PUBLIC IMPROVEMENT PROJECT
APPROVED

FEBRUARY 10, 2026

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

05/29/2026

City Engineer

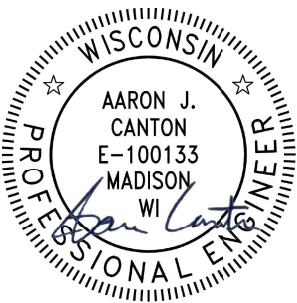
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PAVEMENT MARKINGS
& TRAFFIC CONTROL
DESIGNED BY:



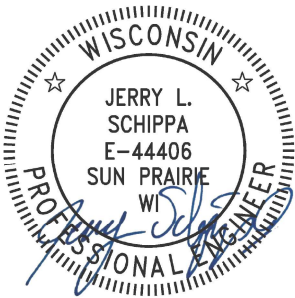
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STREET & PATH
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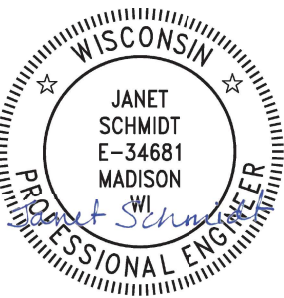
05/29/2026

LIGHTING & SIGNALS
DESIGNED BY:



05/29/2026

STORM SEWER
DESIGNED BY:



05/29/2026

BIKE-PEDESTRIAN BRIDGE
DESIGNED BY:

SEE
INDIVIDUAL
SHEETS

SANITARY SEWER
DESIGNED BY:



05/29/2026

PLOT SCALE: 1 IN=1 FT_XREF

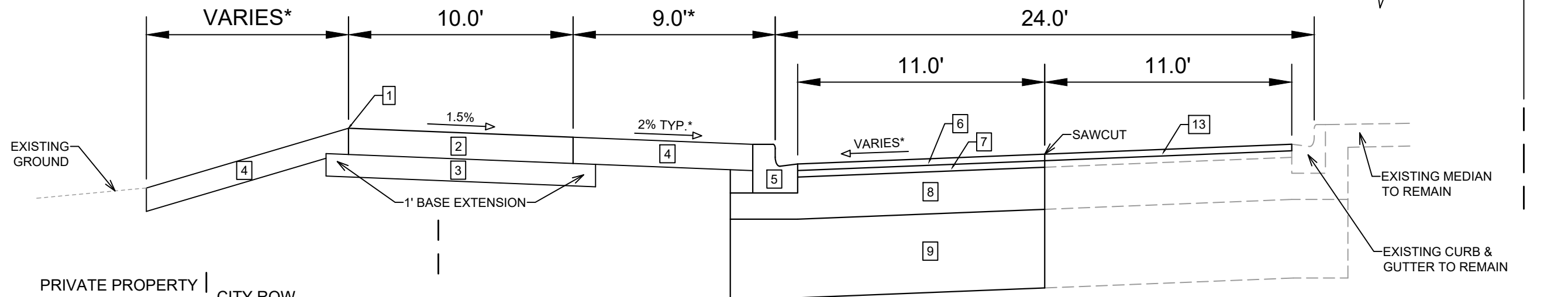
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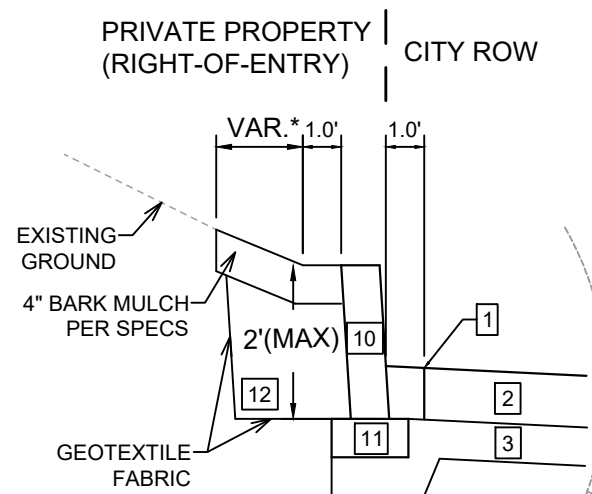
ORIGINATOR: CITY_OF_MADISON

CITY PROPERTY
(1471 MARTIN ST)

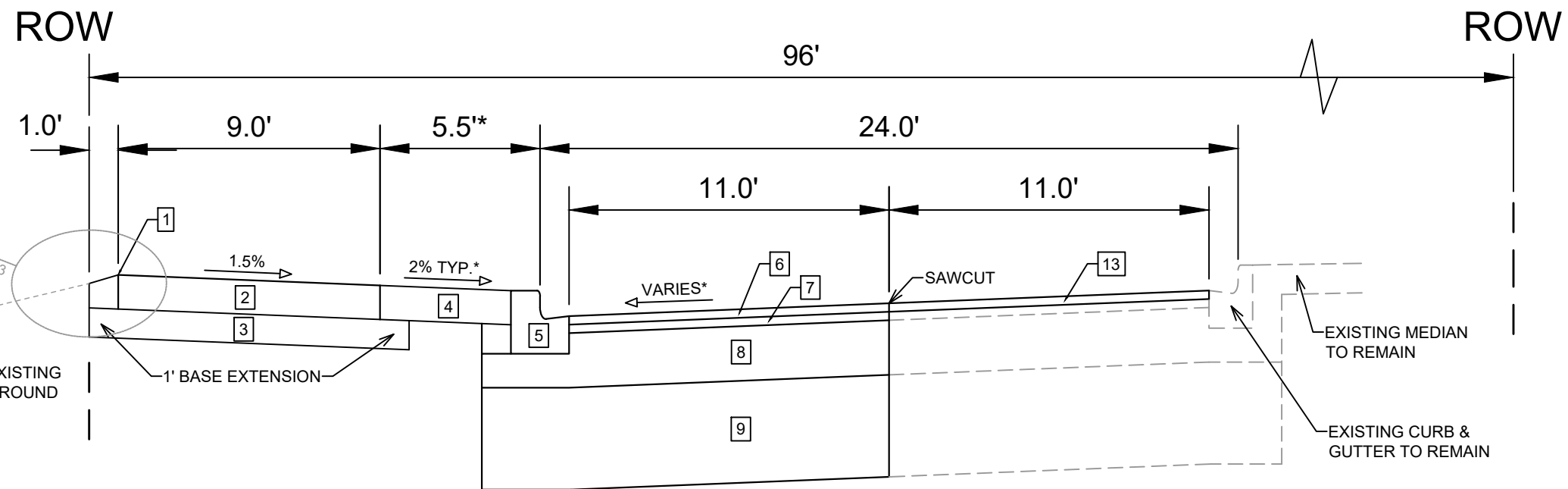
CITY ROW



TYPICAL SECTION
CANNONBALL PATH: PHASE 6
(RR TRACK TO MARTIN ST)



SPLIT BLOCK
RETAINING WALL
(STA 18+70.53 TO STA 20+02.73)



TYPICAL SECTION
CANNONBALL PATH: PHASE 6
(MARTIN ST TO CARVER ST)

- 1 POINT REFERRED TO ON PROFILE
- 2 7" CONCRETE SIDEWALK, SAWED JOINTS
- 3 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE**
- 4 6" TOPSOIL, SEED, & MAT
- 5 TYPE 'H' CONCRETE CURB & GUTTER
- 6 2" HMA PAVEMENT- TYPE 4 MT 58-28 S
- 7 3.5" HMA PAVEMENT- TYPE 3 MT 58-28 S
- 8 12" GRADATION 2 CRUSHED AGGREGATE BASE COURSE***
- 9 21.5" GRADATION 1 CRUSHED AGGREGATE BASE COURSE***
- 10 SPLIT BLOCK RETAINING WALL. SEE SPECS.
- 11 6" GRADATION 2 CRUSHED AGGREGATE BASE (LEVELED & COMPACTED)
- 12 BACKFILL PER WALL MANUFACTURER
- 13 2" MILL & OVERLAY - TYPE 4 MT 58-28 S (FINAL LIMITS BY CONSTRUCTION ENGINEER)

NOTES:

* SEE P-SHEETS AND X-SHEETS FOR DIMENSIONING AND CROSS SLOPES

** BASE COURSE UNDERNEATH 7" CONCRETE SIDEWALK ESTIMATED SEPARATELY, NOT INCIDENTAL TO SIDEWALK BID ITEM.

*** TYPICAL SECTION BASED ON PREVIOUS FISH HATCHERY ROAD AS-BUILTS. BOTH LAYERS OF EXISTING BASE COURSE TO REMAIN AS POSSIBLE. BASE COURSE TO BE REPLACED FOR SEWER INSTALLATION AND AS DIRECTED BY CONSTRUCTION ENGINEER FOR CONDITION AND/OR GRADE CHANGES AS NEEDED. SEE EXCAVATION CUT SPECS FOR MORE DETAIL.

10153

MADISON, WI

7431

CONTRACT NO:

CANNONBALL PATH - TYPICAL SECTIONS

CANNONBALL PATH: PHASE 6

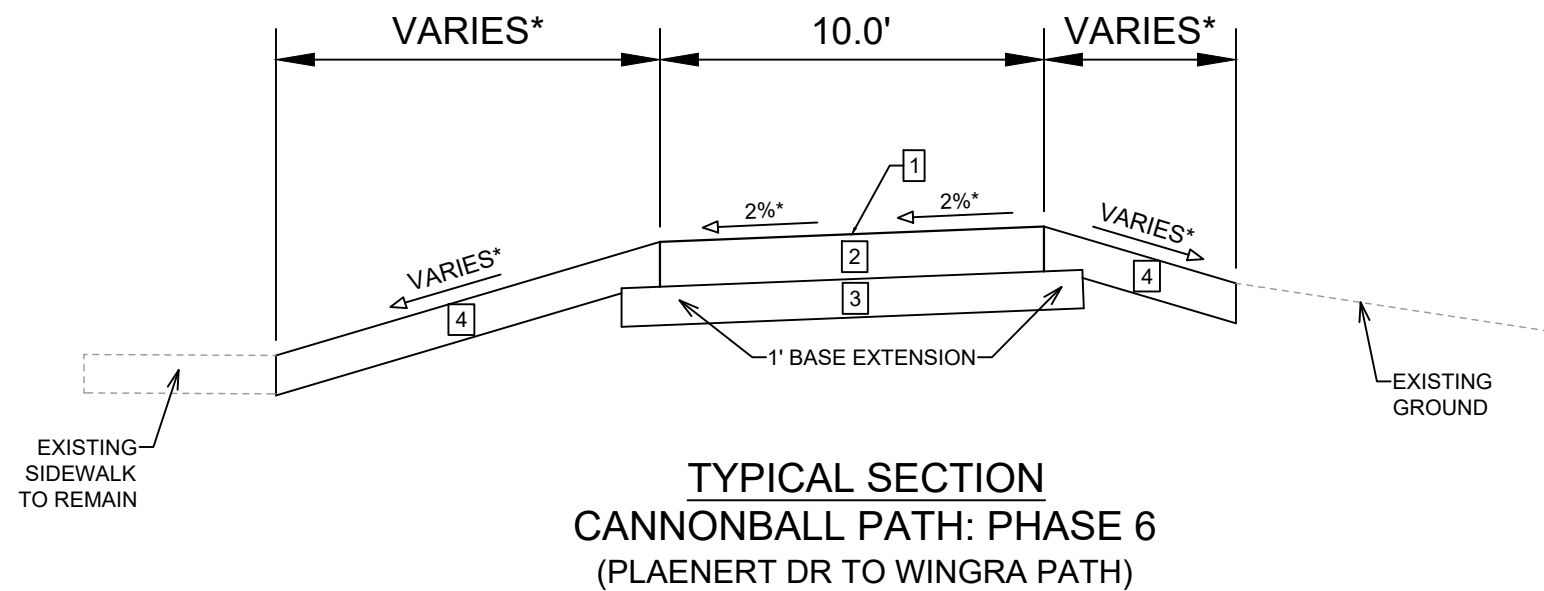
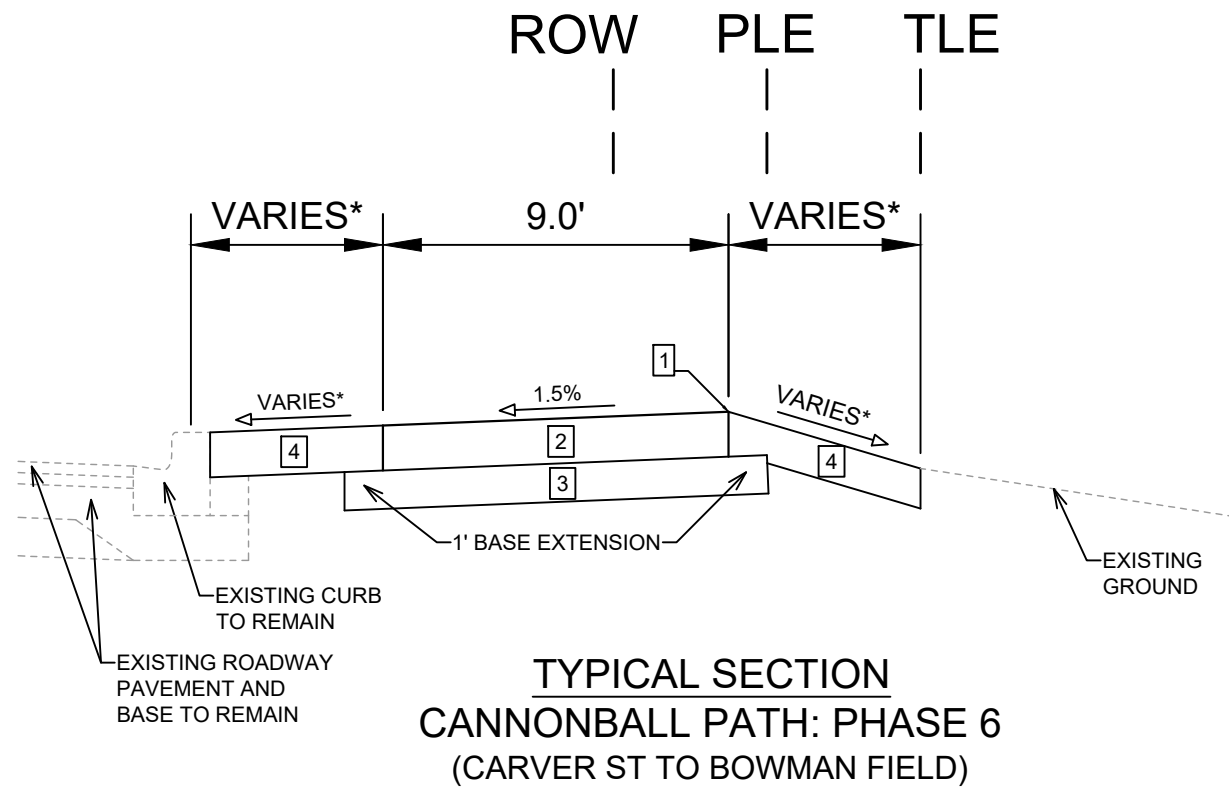
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10153

D-1

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NOTES:

* SEE P-SHEETS AND X-SHEETS FOR DIMENSIONING AND CROSS SLOPES

** BASE COURSE UNDERNEATH 7" CONCRETE SIDEWALK ESTIMATED SEPARATELY, NOT INCIDENTAL TO SIDEWALK BID ITEM.

- 1 POINT REFERRED TO ON PROFILE
- 2 7" CONCRETE SIDEWALK, SAWED JOINTS
- 3 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE**
- 4 6" TOPSOIL, SEED, & MAT

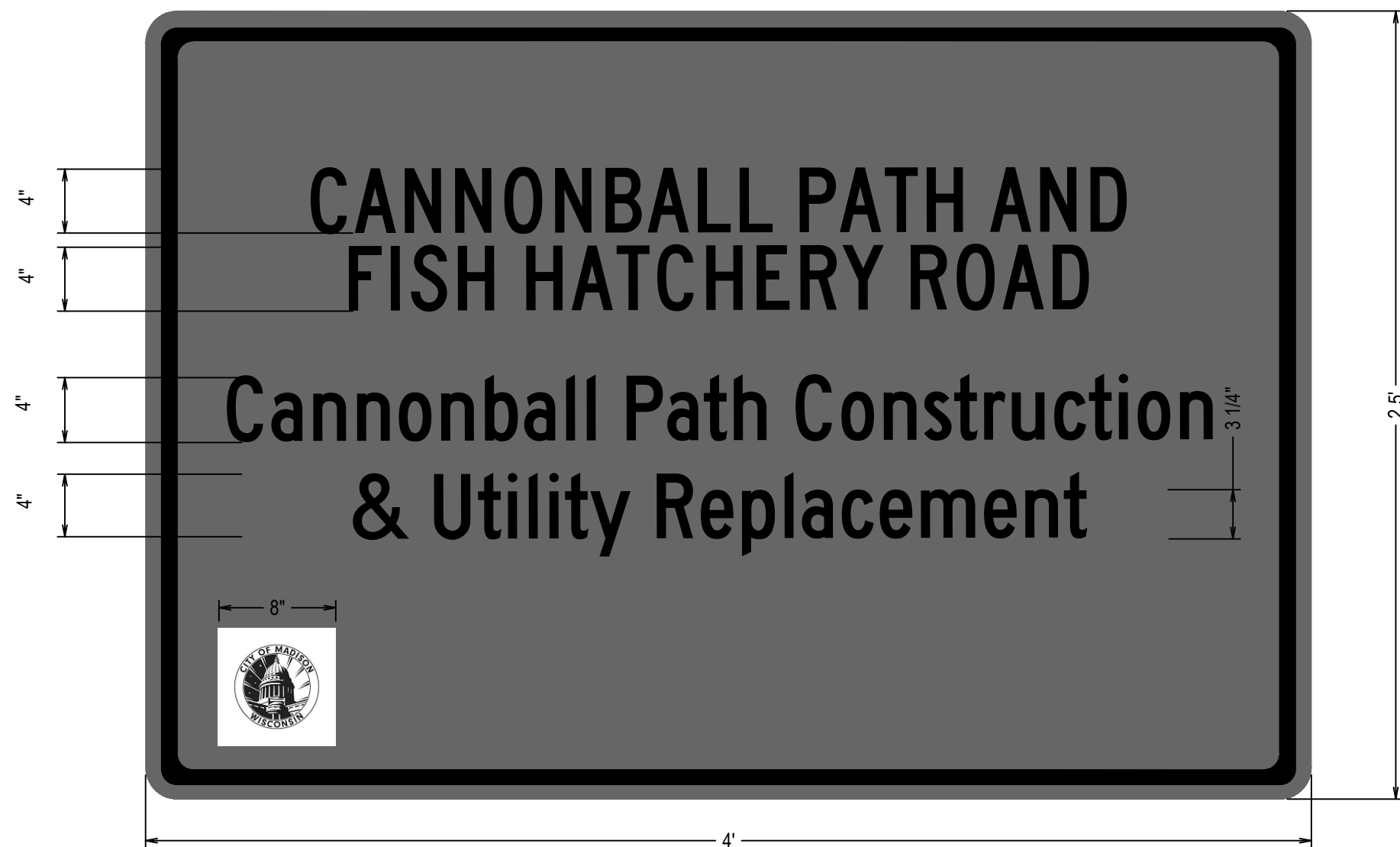


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REVISION	DATE
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10153	D-2

10153	MADISON, WI	7431
CANNONBALL PATH - TYPICAL SECTIONS	CANNONBALL PATH: PHASE 6	CONTRACT NO:
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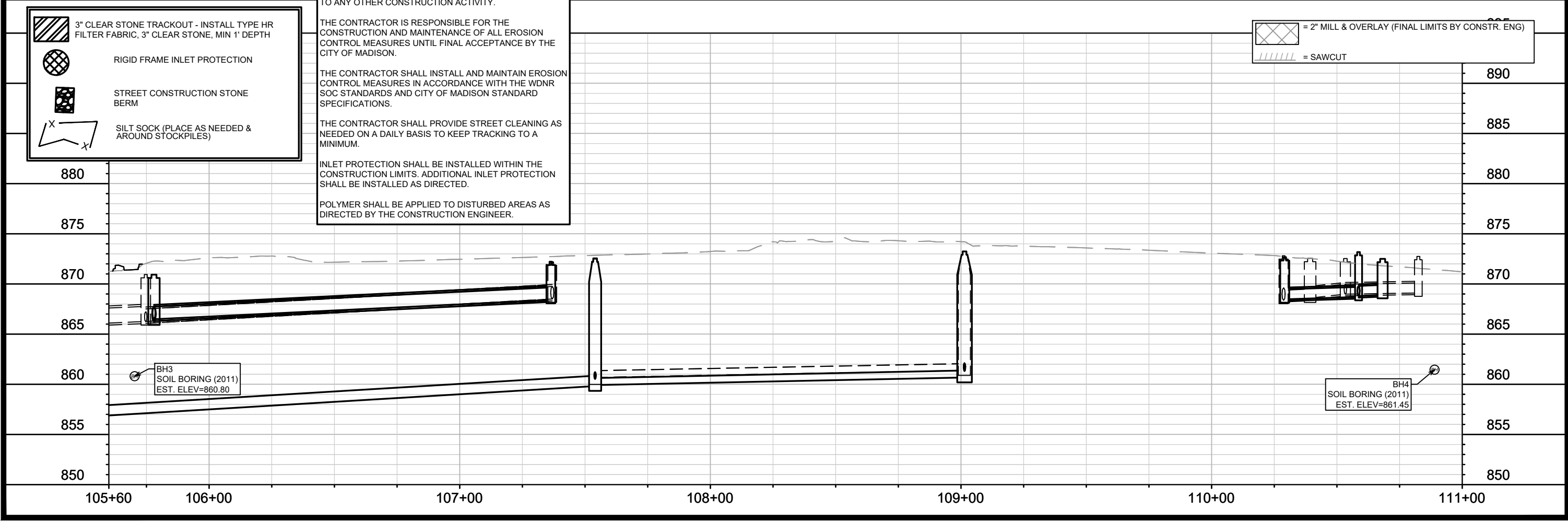
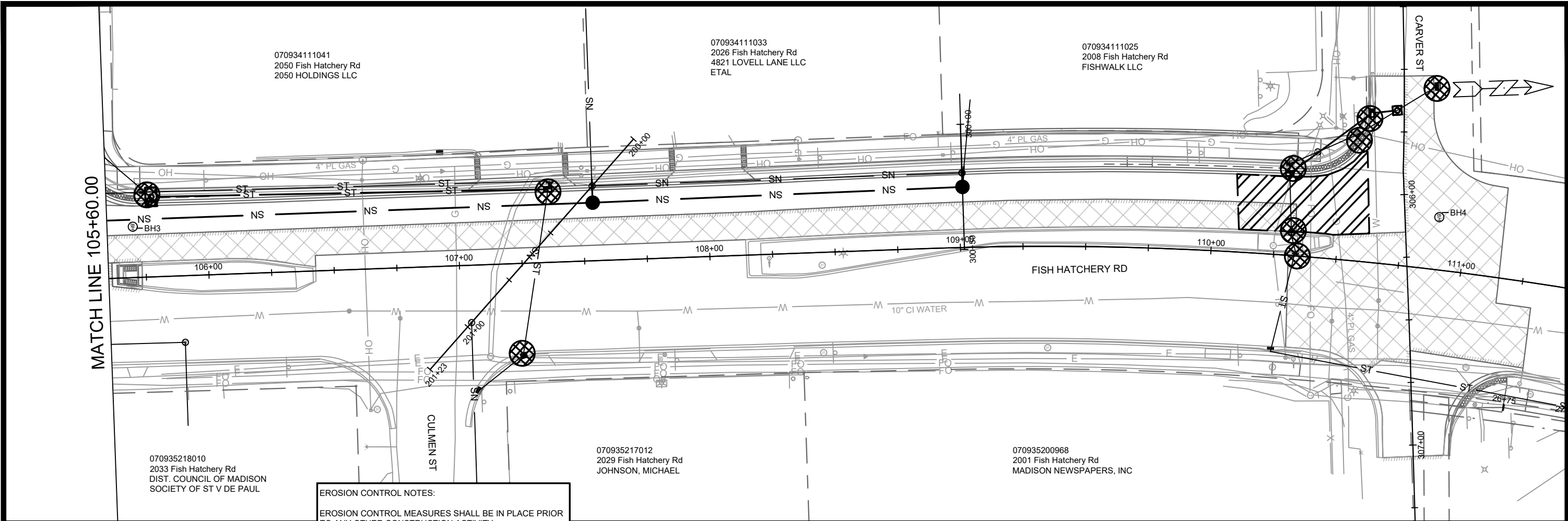


10153
D-2



Notes:





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-
-

EROSION CONTROL NOTES:

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

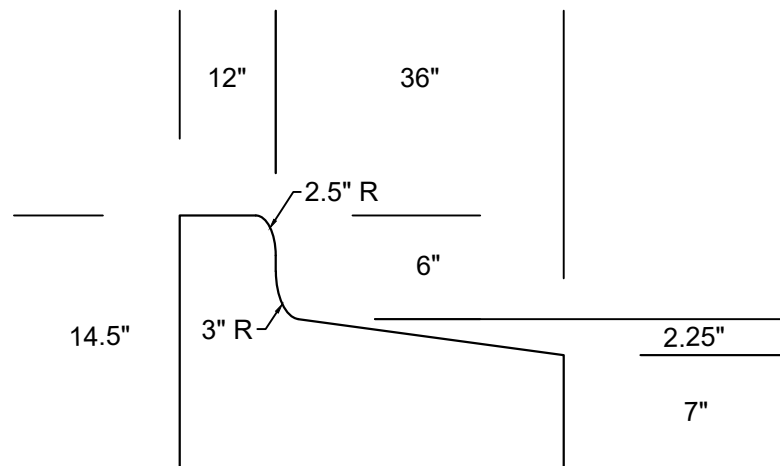
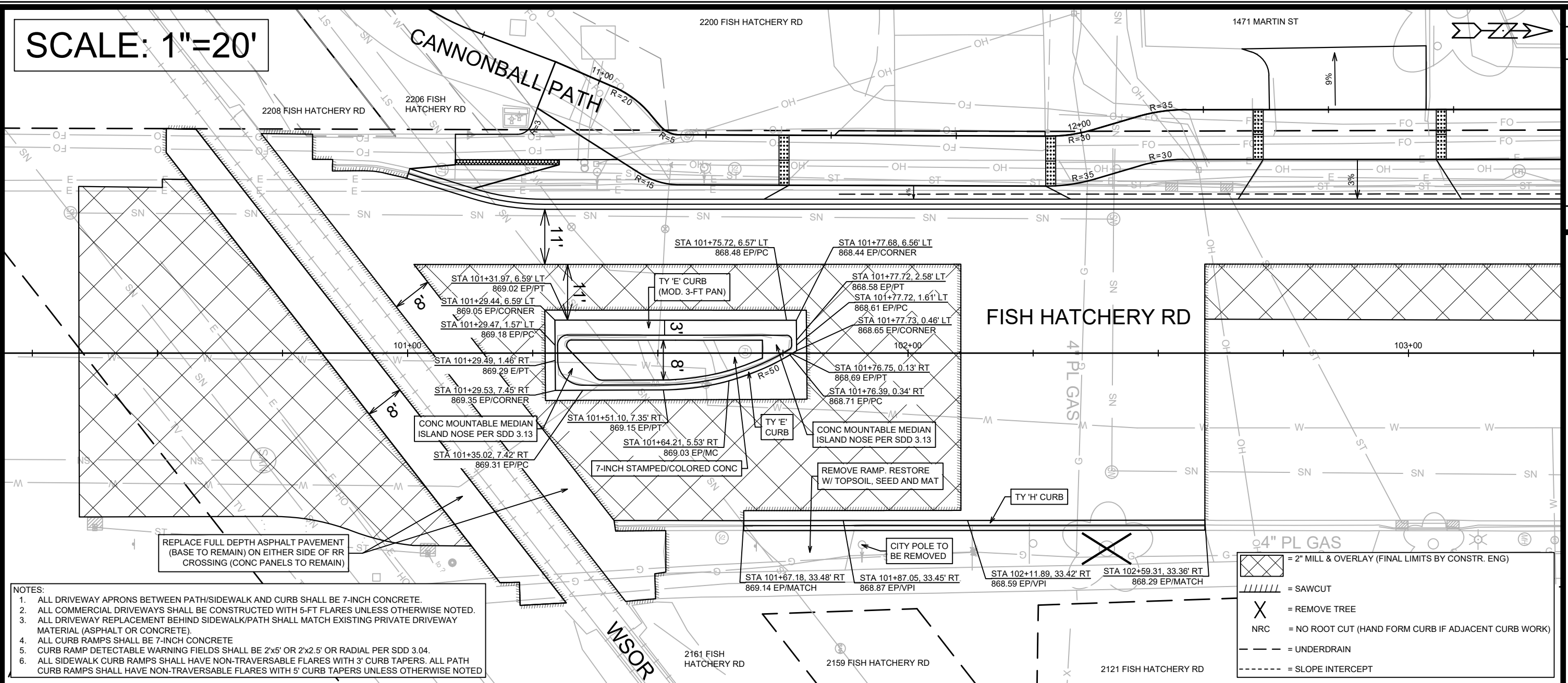
INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

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10153	MADISON, WI	7431	10153	EC-2
FISH HATCHERY RD - EROSION CONTROL				
CANNONBALL PATH: PHASE 6				
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10153				
EC-2				

SCALE: 1"=20'



MOD. TYPE 'E' CONCRETE
CURB & GUTTER
(3-FT GUTTER PAN)
(PAY AS TY 'E' C&G)

FISH HATCHERY RD (MEDIAN ISLAND @ RR CROSSING) - PLAN DETAILS 10153

CANNONBALL PATH: PHASE 6 MADISON, WI

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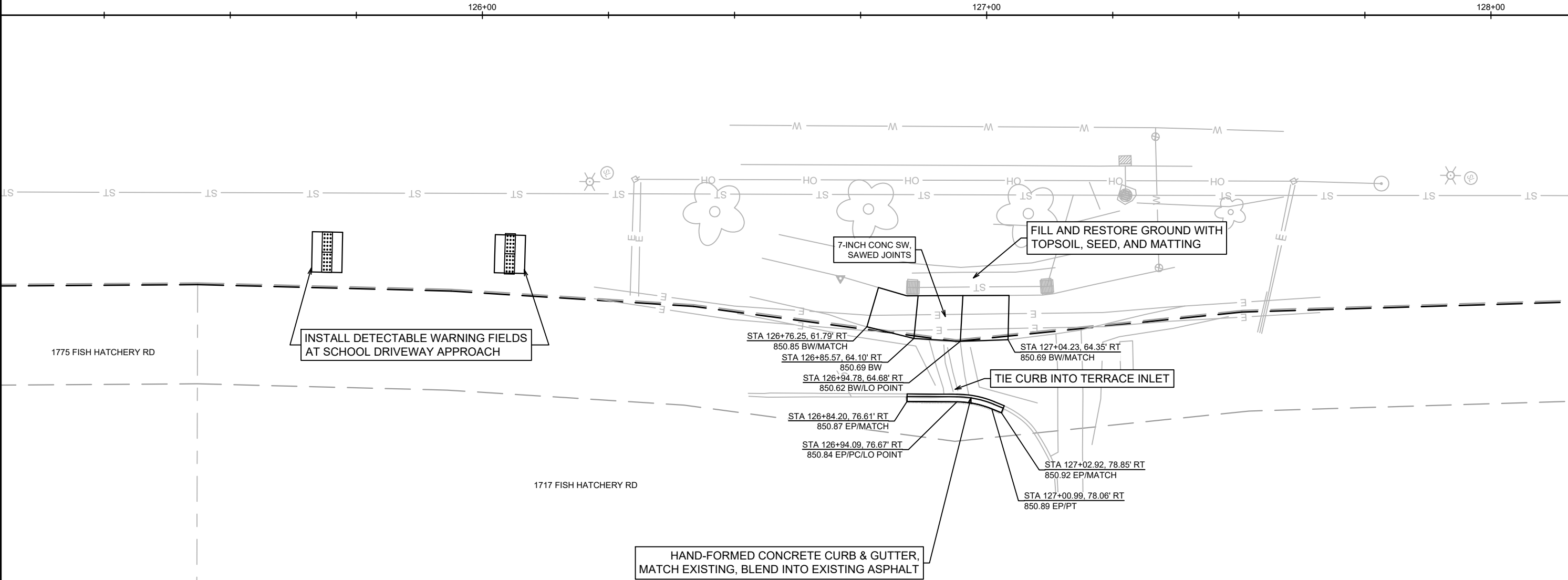


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SCALE: 1"=20'



FISH HATCHERY RD

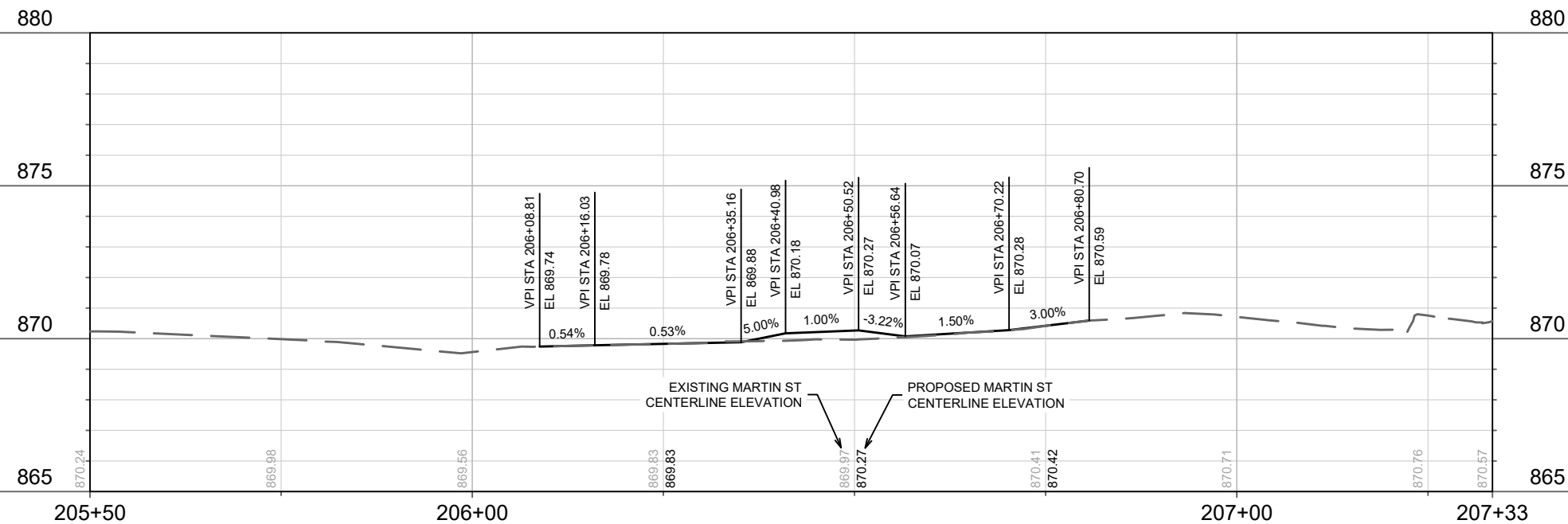
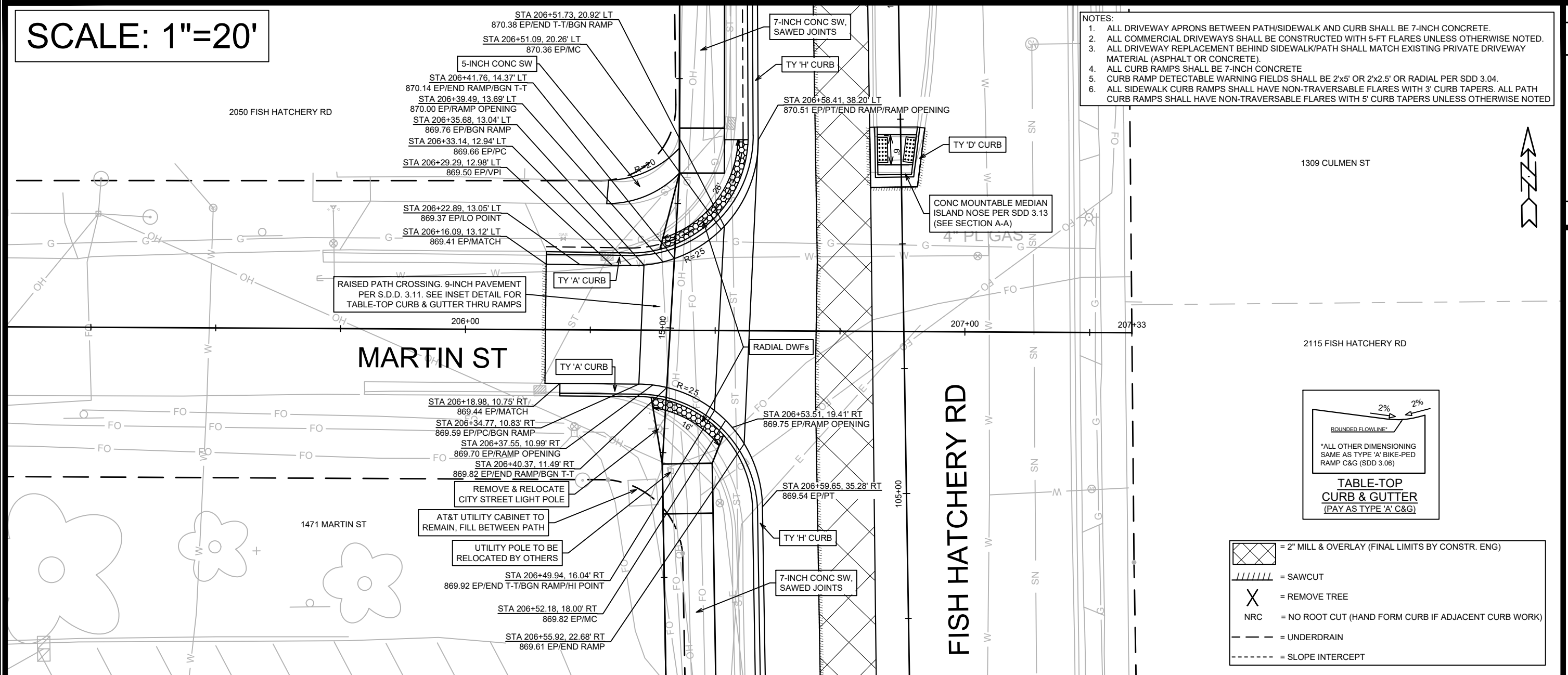


- NOTES:
1. ALL DRIVEWAY APRONS BETWEEN PATH/SIDEWALK AND CURB SHALL BE 7-INCH CONCRETE.
 2. ALL COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH 5-FT FLARES UNLESS OTHERWISE NOTED.
 3. ALL DRIVEWAY REPLACEMENT BEHIND SIDEWALK/PATH SHALL MATCH EXISTING PRIVATE DRIVEWAY MATERIAL (ASPHALT OR CONCRETE).
 4. ALL CURB RAMPS SHALL BE 7-INCH CONCRETE
 5. CURB RAMP DETECTABLE WARNING FIELDS SHALL BE 2'x5' OR 2'x2.5' OR RADIAL PER SDD 3.04.
 6. ALL SIDEWALK CURB RAMPS SHALL HAVE NON-TRAVERSABLE FLARES WITH 3' CURB TAPERS. ALL PATH CURB RAMPS SHALL HAVE NON-TRAVERSABLE FLARES WITH 5' CURB TAPERS UNLESS OTHERWISE NOTED

	= 2" MILL & OVERLAY (FINAL LIMITS BY CONSTR. ENG)
	= SAWCUT
	= REMOVE TREE
NRC	= NO ROOT CUT (HAND FORM CURB IF ADJACENT CURB WORK)
	= UNDERDRAIN
	= SLOPE INTERCEPT

10153		MADISON, WI		7431	
WRIGHT MIDDLE SCHOOL WIDENED SIDEWALK - PLAN DETAILS		CANNONBALL PATH: PHASE 6		CONTRACT NO:	
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		10153		PD-2	

SCALE: 1"=20'



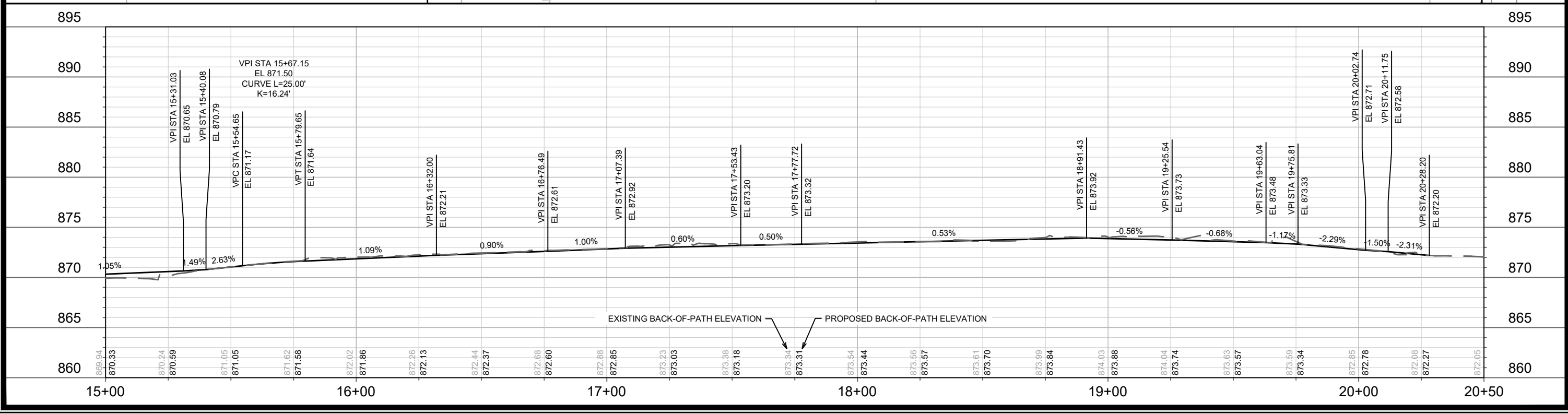
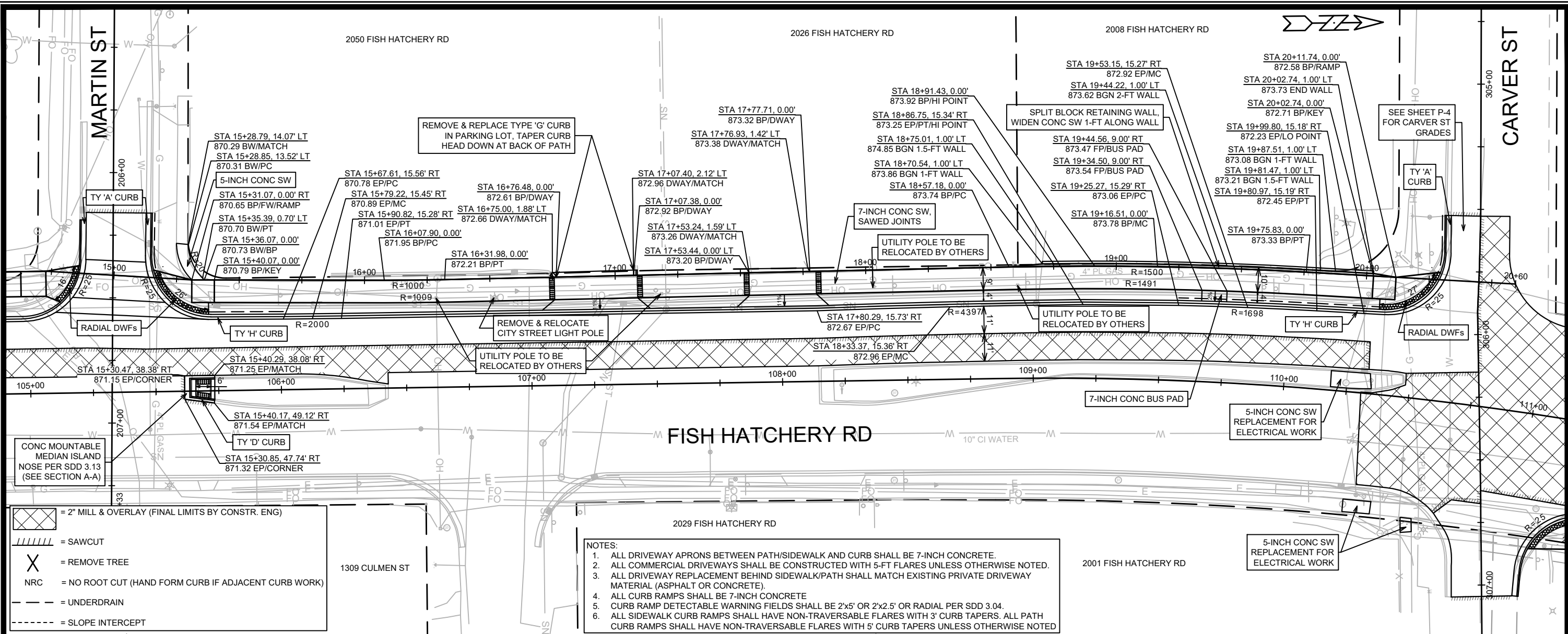
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MARTIN ST - PLAN & PROFILE	10153
CANNONBALL PATH: PHASE 6	MADISON, WI
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CONTRACT NO:	7431



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P-2



10153	MADISON, WI	7431	CONTRACT NO:
CANNONBALL PATH (MARTIN ST TO CARVER ST) - PLAN & PROFILE			
CANNONBALL PATH: PHASE 6			
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10153			P-3

SCALE: 1"=20'

1558 CARVER ST

CARVER ST

FISH HATCHERY RD

1901 FISH HATCHERY RD



- = 2" MILL & OVERLAY (FINAL LIMITS BY CONSTR. ENG)
- = SAWCUT
- = REMOVE TREE
- NRC = NO ROOT CUT (HAND FORM CURB IF ADJACENT CURB WORK)
- = UNDERDRAIN
- = SLOPE INTERCEPT

STA 305+52.71, 0.00'
872.98 SAWCUT/MATCH

STA 306+14.98, 0.00'
871.68 SAWCUT/MATCH

STA 306+62.28, 0.00'
871.03 SAWCUT/MATCH

7-INCH CONC SW,
SAWED JOINTS

STA 306+72.32, 44.51' LT
869.83 EP/MATCH

STA 306+71.97, 42.54' LT
869.86 EP/PC

STA 306+71.57, 38.33' LT
869.93 EP/RAMP OPENING

MADISON NEWSPAPERS SIGN
TO REMAIN, PROTECT IN PLACE

STA 306+76.68, 22.97' LT
870.17 EP/MC

STA 306+84.45, 16.27' LT
870.33 EP/RAMP OPENING

STA 306+94.35, 13.06' LT
870.49 EP/PT

STA 307+04.40, 12.09' LT
870.64 EP/MATCH

STA 307+04.53, 0.00'
870.86 SAWCUT/MATCH

REMOVE CONCRETE PAVEMENT, REPLACE
FULL DEPTH ASPHALT PAVEMENT AND BASE
PER FISH HATCHERY RD TYPICAL SECTION

STA 305+52.46, 11.72' RT
872.78 EP/MATCH

STA 305+67.58, 11.50' RT
872.27 EP/PC/LO POINT

STA 305+76.59, 12.90' RT
872.31 EP/RAMP OPENING

STA 305+86.12, 18.74' RT
872.37 EP/MC/HI POINT

STA 305+91.42, 37.04' RT
872.27 EP/PT

SPLIT BLOCK RETAINING WALL,
WIDEN CONC SW 1-FT ALONG WALL

STA 305+91.25, 39.30' RT
872.26 EP/RAMP OPENING

7-INCH CONC SW,
SAWED JOINTS

RADIAL DWFS

RADIAL DWFS

TY 'A' CURB

TY 'H' CURB

STA 306+67.51, 0.07' LT
870.82 SAWCUT/MATCH

5-INCH CONC SW
REPLACEMENT FOR
ELECTRICAL WORK

5-INCH CONC SW
REPLACEMENT FOR
ELECTRICAL WORK

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880

880

875

875

870

870

865

865

305+00

306+00

307+00

307+25

EXISTING CARVER ST
CENTERLINE ELEVATION

10153

MADISON, WI

7431

CONTRACT NO:

CARVER ST - PLAN & PROFILE

CANNONBALL PATH: PHASE 6

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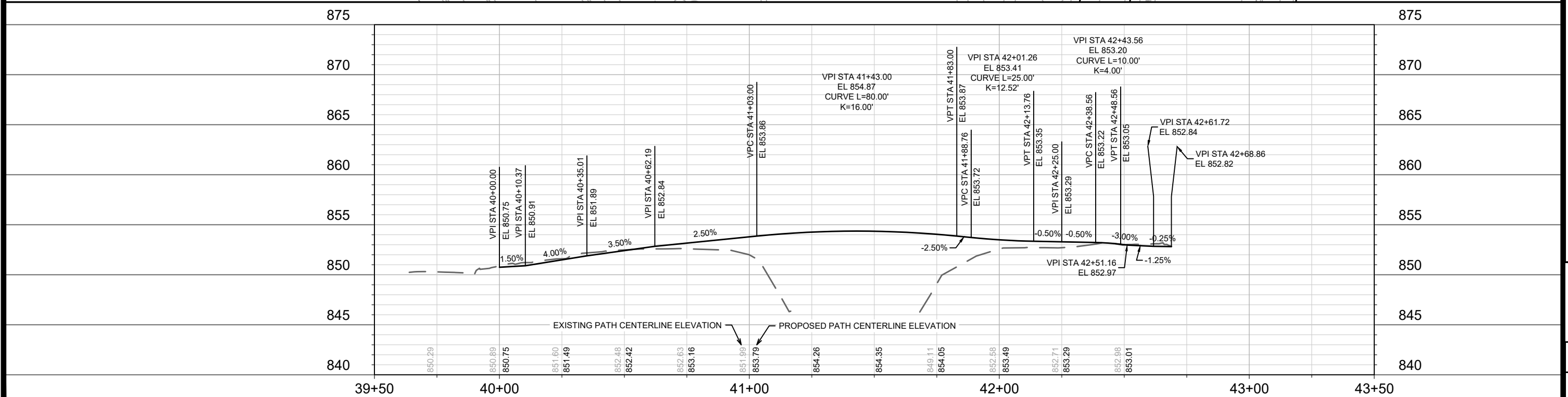


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10153	P-4

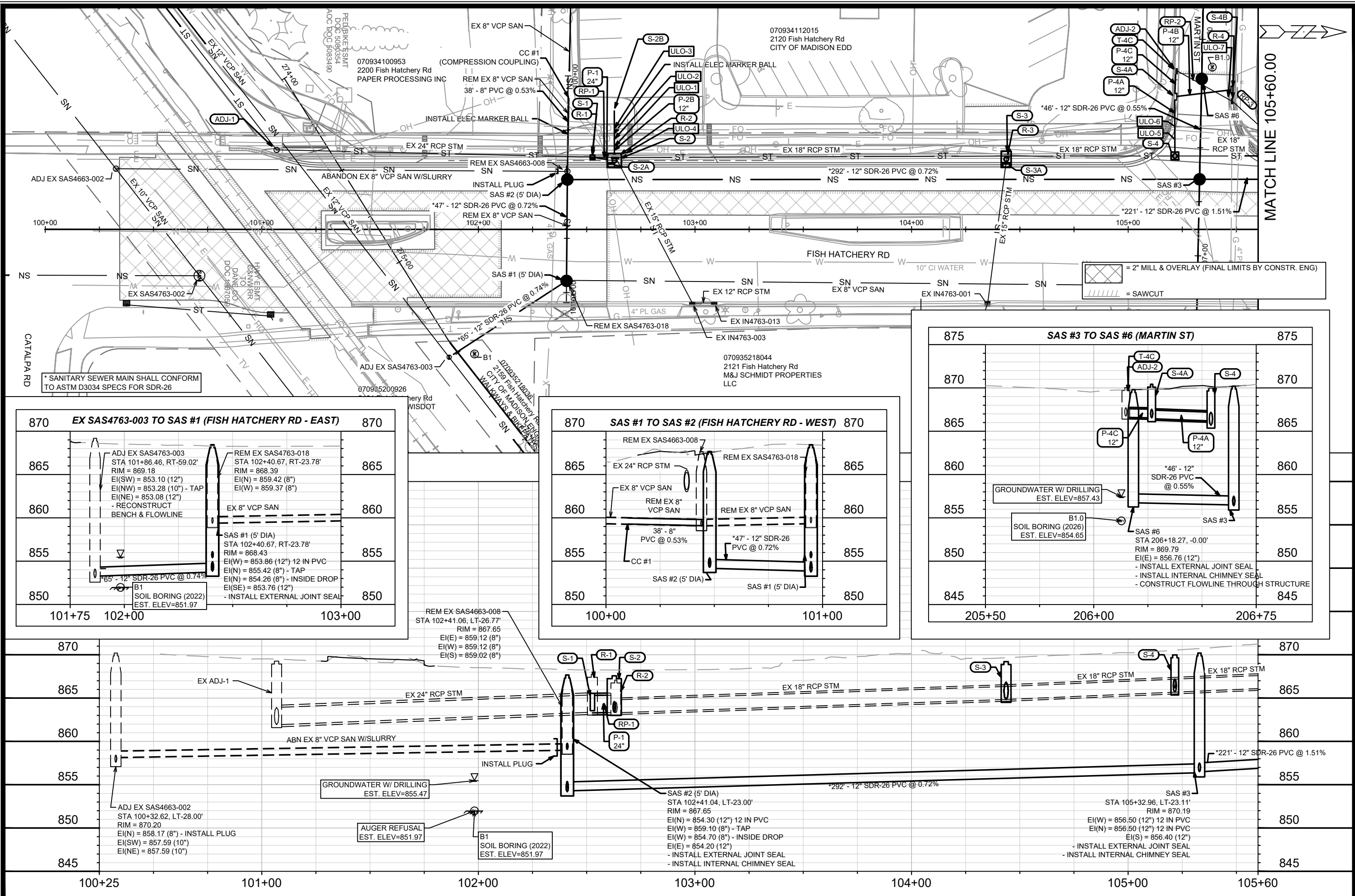
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CANNONBALL PATH (PLAENERT DR TO WINGRA PATH) - PLAN & PROFILE	10153
CANNONBALL PATH: PHASE 6	MADISON, WI
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CONTRACT NO:	7431



10153
P-6



10153

MADISON, WI

CONTRACT NO: 7431

FISH HATCHERY RD - SEWER PLAN & PROFILE

CANNONBALL PATH: PHASE 6



10153

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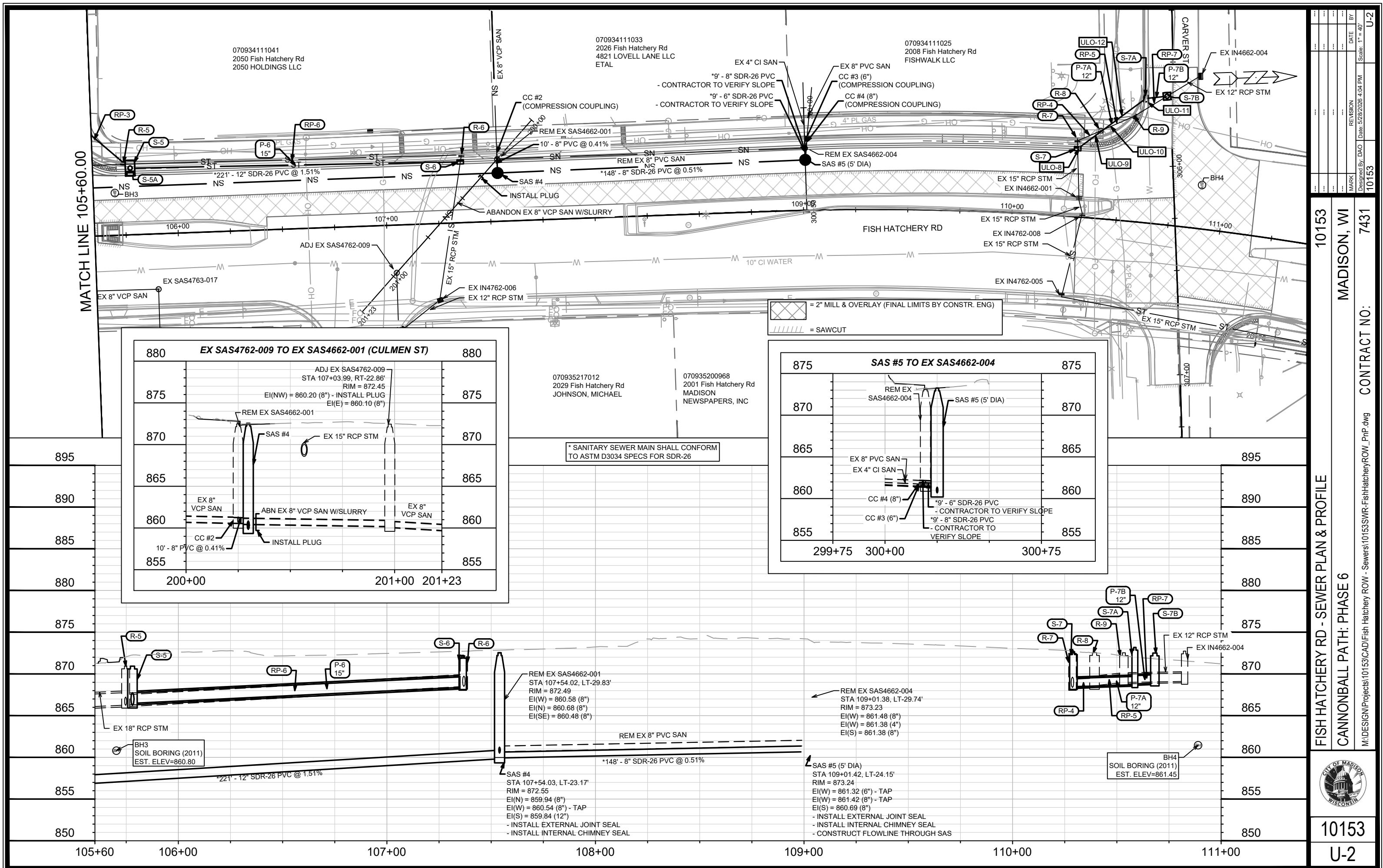
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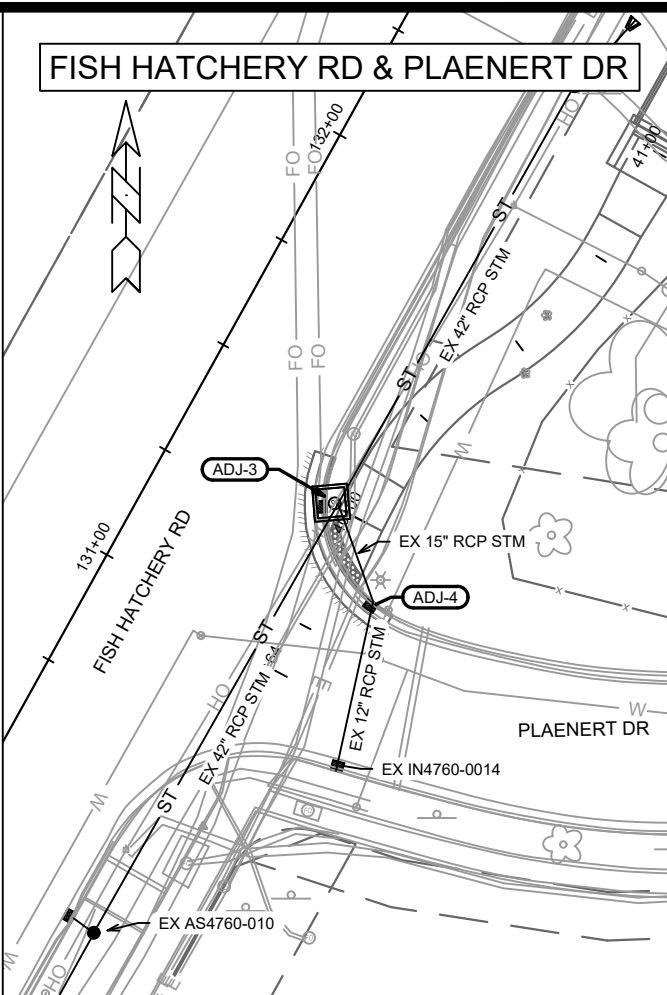
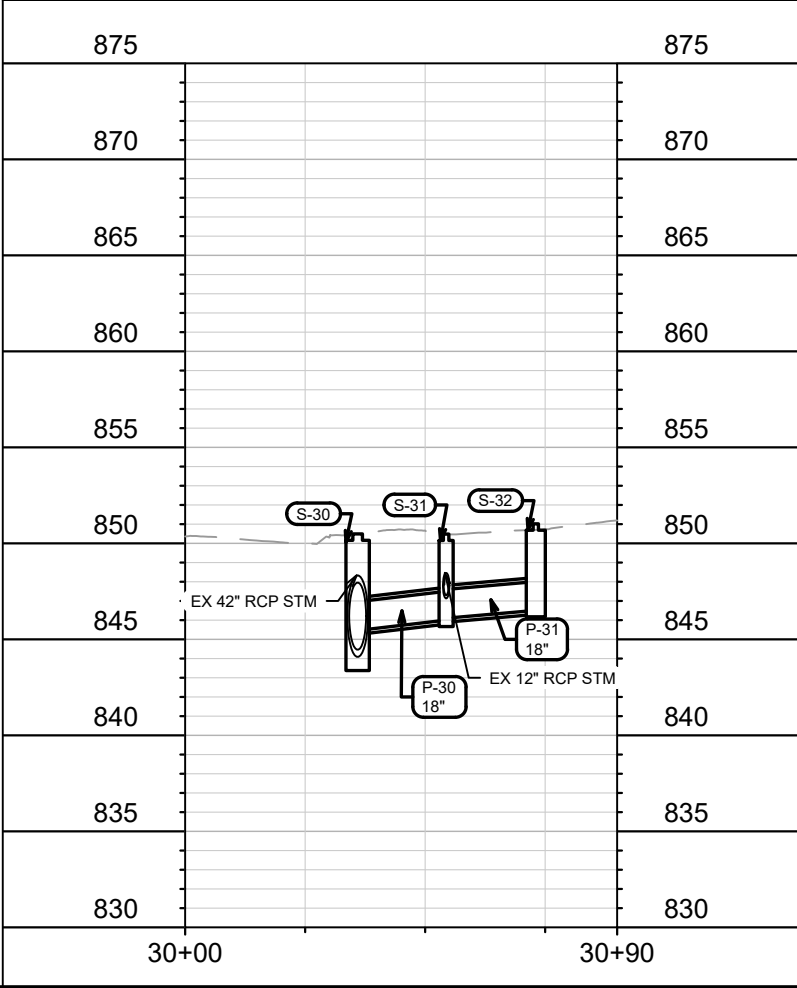
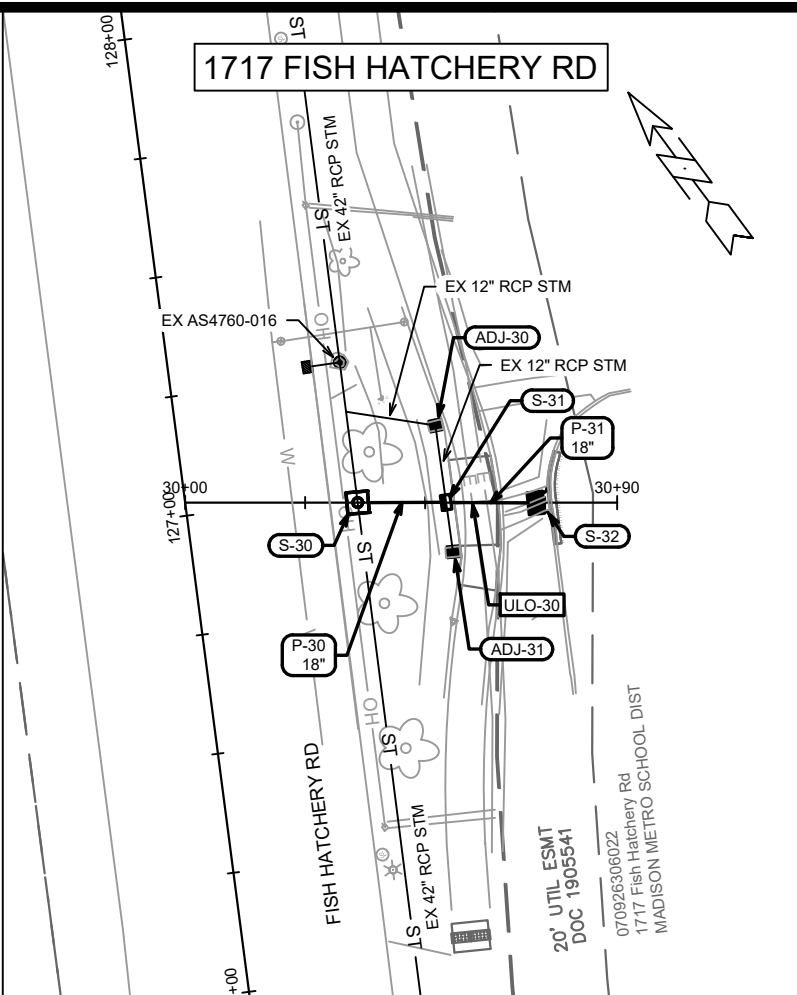
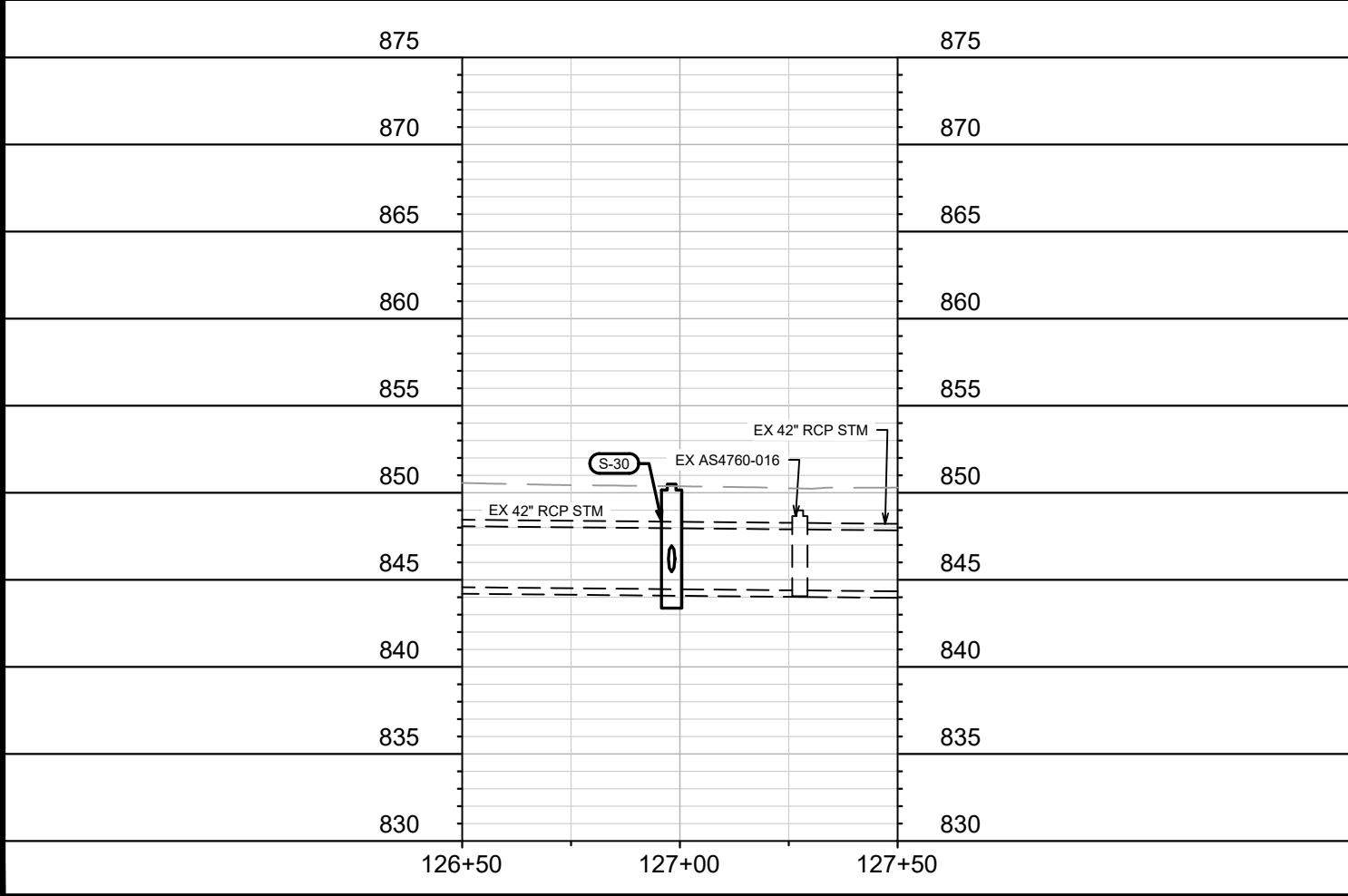
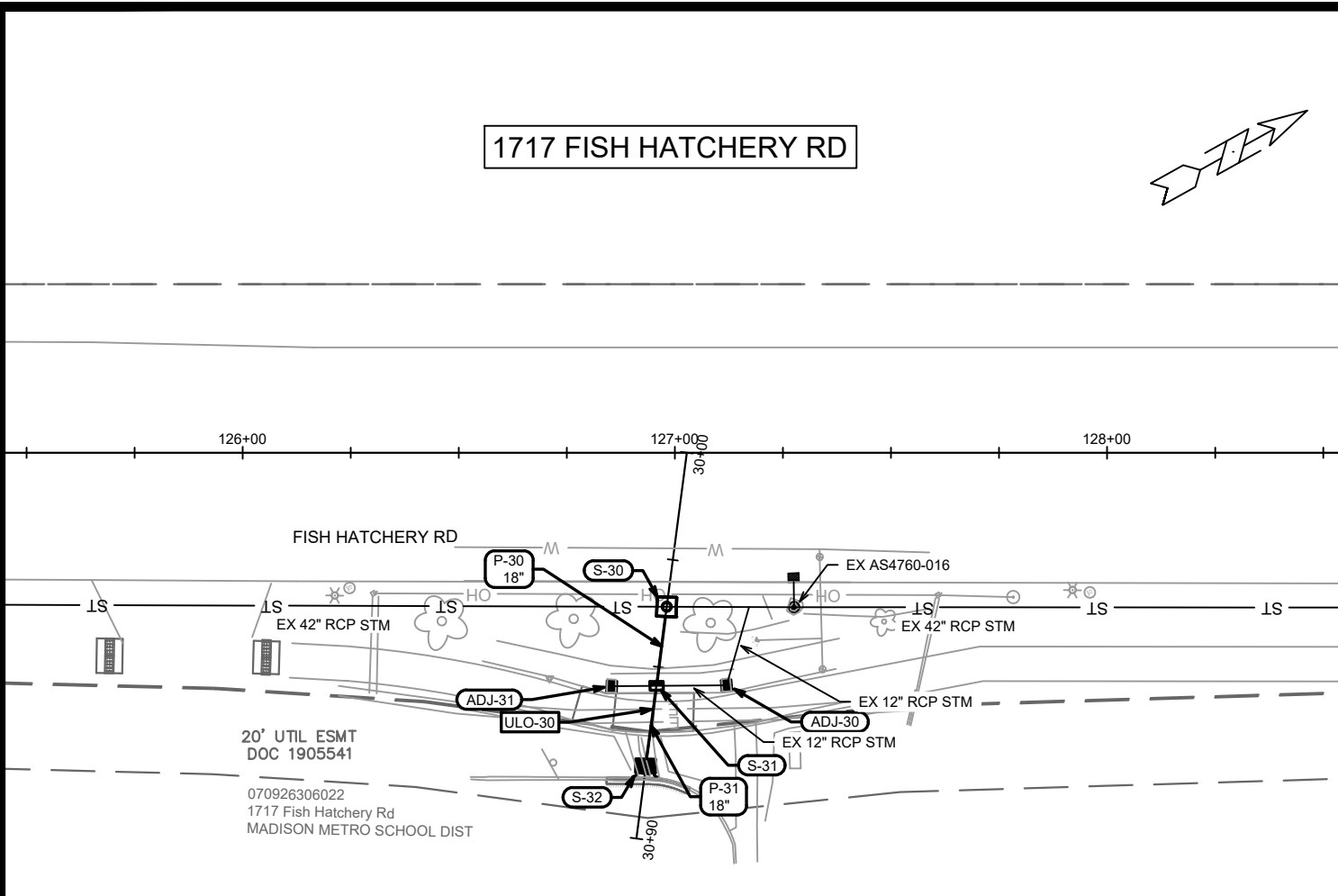
10153

7431

10153

U-1





2" MILL & OVERLAY (FINAL LIMITS BY CONSTR. ENG)

SAWCUT

1717 FISH HATCHERY RD & PLAENERT DR - SEWER PLAN & PROFILE	10153	MADISON, WI	CONTRACT NO: 7431
CANNONBALL PATH: PHASE 6			
		10153	U-3

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Designed By: DAO Date: 5/28/2026 4:10 PM Scale: 1" = 40'

REVISION

MARK

BY

DATE

STORM SEWER SCHEDULE

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
FISH HATCHERY RD							
S-1	102+52.67	LT-33.34	24" COLLAR	-	863.30	-	[1]
S-2	102+62.77	LT-31.79	6X6 STORM SAS	867.57	863.30	4.27	FP; W/R-1550; [2]
S-2A	102+61.26	LT-29.78	S-2 CASTING LOCATION	867.57	-	-	LP; R-3067-7004VB
S-2B	102+62.73	LT-55.42	12" PIPE CAP	-	863.40	-	[11]
S-3	104+43.67	LT-32.35	4X7 STORM SAS	869.2	864.84	4.36	FP; W/R-1550; [3]
S-3A	104+43.68	LT-29.85	S-3 CASTING LOCATION	869.17	-	-	W/R-3067-7004V
S-4	105+21.57	LT-33.91	3X3 STORM SAS	869.98	865.68	4.30	FP; W/R-1550; [4]
S-5	105+78.02	LT-31.97	4X7 STORM SAS	870.93	866.26	4.67	FP; W/R-1550; [5]
S-5A	105+78.03	LT-29.47	S-5 CASTING LOCATION	871	-	-	FP; W/R-3067-7004V
S-6	107+36.36	LT-29.16	H INLET	872.22	868.40	3.82	FP; W/R-3290-A; [6]
S-7	110+29.18	LT-32.66	H INLET	872.66	868.29	4.37	LP, FP; W/R-3067-7004VB; [7]
S-7A	110+58.63	LT-59.34	H INLET	873.18	868.70	4.48	LP; W/R-3067-7004VB
S-7B	110+68.23	LT-61.44	3X3 STORM SAS	872.5	868.90	3.60	FP; W/R-1550; [12]

MARTIN ST

S-4A	206+26.75	RT-12.29	H INLET	870.42	866.44	3.98	W/R-3067-7004V
S-4B	206+22.91	LT-14.55	H INLET	870.28	867.18	3.10	LP, FP; W/R-3067-7004VB
T-4C	206+14.80	RT-12.00	12" TAP	-	866.60	-	

FISH HATCHERY RD AT WRIGHT MIDDLE SCHOOL

S-30	126+98.09	RT-35.63	4X4 STORM SAS	850.49	843.71	6.78	FP; W/R-1550; [8]
S-31	126+95.77	RT-53.92	H INLET	850.48	846.00	4.48	FP; W/R-1878-B7G; [9]
S-32	126+93.21	RT-72.42	TERRACE INLET TYPE 3	851.01	846.51	4.50	FP; [10]

SPECIFIC NOTES

- [1] REPLACE REMOVED STRUCTURE WITH CONCRETE COLLAR
- [2] CENTER OF STRUCTURE GIVEN IN CHART; S-2A FOR INLET CASTING; RECONNECT TO EX 24" RCP, EI = 863.30 (N); RECONNECT EX 15" RCP, EI = 863.30
- [3] CENTER OF STRUCTURE GIVEN IN CHART; S-3A FOR INLET CASTING;RECONNECT TO EX 24" RCP, EI = 864.84 (S)
- [4] RECONNECT TO EX 24" RCP, EI = 865.68 (S)
- [5] CENTER OF STRUCTURE GIVEN IN CHART; S-5A FOR INLET CASTING; RECONNECT TO EX 24" RCP, EI = 866.26 (S)
- [6] RECONNECT TO EX 15" RCP, EI = 868.50 (E)
- [7] RECONNECT TO EX 15" RCP, EI = 868.29 (E)
- [8] RECONNECT TO EX 42" RCP, EI = 843.71 (N)
- [9] RECONNECT TO EX 12" RCP, EI = 847.29 (N) & EI = 847.29 (S)
- [10] SET GRATE 0.2' BELOW CURB (TOC); INSTALL 20' OF CURB
- [11] NEW PRIVATE LATERAL; CAP IS INCIDENTAL TO PIPE; PLACE ELECTRONIC MARKER BALL
- [12] RECONNECT EX 12" RCP, EI = 869.04 (N)

STANDARD NOTES:

- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- 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 REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- 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.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS 3 UNLESS OTHERWISE NOTED.
- 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
- 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 DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.

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
FISH HATCHERY RD										
P-1	S-1	S-2	863.30	863.35	10	6	0.80%	24	RCP	[11]
P-2B	S-2	S-2B	863.40	863.51	23	21	0.53%	12	RCP	
P-6	S-5	S-6	866.48	868.40	158	155	1.24%	15	RCP	
P-7A	S-7	S-7A	868.47	868.70	41	37	0.61%	12	RCP	
P-7B	S-7A	S-7B	868.80	868.90	10	8	1.29%	12	RCP	

MARTIN ST

P-4A	S-4	S-4A	866.19	866.44	27	24	1.03%	12	RCP
P-4B	S-4A	S-4B	866.54	867.18	27	25	2.55%	12	RCP
P-4C	S-4A	T-4C	866.54	866.60	12	9	0.67%	12	RCP

FISH HATCHERY RD AT WRIGHT MIDDLE SCHOOL

P-30	S-30	S-31	845.46	846.00	18	15	3.49%	18	RCP
P-31	S-31	S-32	846.10	846.51	19	16	2.55%	18	RCP

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MADISON, WI

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U-5

STORM SEWER SCHEDULE - PROPOSED STORM

CANNONBALL PATH: PHASE 6



10153

U-5

MARK

DESIGNED BY: DAO

10153

REVISION

DATE

BY

STORM SEWER SCHEDULE

STORM STRUCTURE ADJUSTMENTS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	EX TOC	PROP TOC	ADJ (FT)	NOTES
FISH HATCHERY RD							
ADJ-1	AS4663-007	101+06.85	LT-36.65	869.26	869.05	-0.21	[2]
ADJ-3	IN4760-028	131+32.94	RT-36.98	850.88	850.68	-0.20	
ADJ-4	IN4760-015	131+17.33	RT-53.17	850.29	850.25	-0.04	
ADJ-30	NO ID	127+11.94	RT-53.78	850.56	850.60	0.04	
ADJ-31	NO ID	126+85.39	RT-54.01	850.44	850.60	0.16	
MARTIN ST							
ADJ-2	IN4663-004	206+14.82	RT-12.00	870.03	869.83	-0.20	[1]

STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	DEPTH (FT)	NOTES
FISH HATCHERY RD						
R-1	IN4663-006	102+52.67	LT-33.34	4X4 STORM SAS INLET	4.37	
R-2	IN4663-012	102+63.48	LT-33.20	4X4 STORM SAS INLET	3.78	
R-3	IN4663-013	104+44.03	LT-33.75	INLET	5.31	
R-5	IN4663-001	105+74.74	LT-34.01	INLET	4.72	
R-6	IN4662-006	107+36.93	LT-32.26	INLET	3.69	
R-7	IN4662-007	110+28.73	LT-37.42	INLET	4.44	
R-8	IN4662-003	110+39.32	LT-42.04	3X3 STORM SAS	4.06	
R-9	IN4662-004	110+53.38	LT-51.08	INLET	3.56	
MARTIN ST						
R-4	IN4663-014	206+28.35	LT-14.62	INLET	3.39	

ULO SCHEDULE

ID NO. (OFFSET)	STATION	LOCATION (OFFSET)	TYPE	NOTES
FISH HATCHERY RD				
ULO-1	102+62.76	LT-38.26	ELEC	
ULO-2	102+62.75	LT-41.68	FO	
ULO-3	102+62.74	LT-46.54	FO	
ULO-4	102+68.09	LT-35.23	ELEC	
ULO-5	105+21.54	LT-41.74	FO	
ULO-6	105+21.52	LT-47.70	UG ELEC	
ULO-7	105+46.21	LT-60.95	WAT MAIN	
ULO-8	105+46.21	LT-60.95	SIGNAL	
ULO-9	110+36.93	LT-39.51	TEL	
ULO-10	110+43.48	LT-44.68	GAS	
ULO-11	110+59.71	LT-57.51	WAT MAIN	
ULO-12	110+48.52	LT-49.98	UG ELEC	
FISH HATCHERY RD AT WRIGHT MIDDLE SCHOOL				
ULO-30	126+95.00	RT-59.31	UG ELEC	

SPECIFIC NOTES

- [1] TAP W/P-4C
- [2] EX 6X6 STM SAS W/R-3067-7004 & R-1550; ADJUST R-1550 CASTING GRADE FOR NEW PATH; ADJUST R-3067 FOR CURB REPLACEMENT

STORM PIPE REMOVALS

PIPE REM NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PAID (Y/N)	REM PAID (FT)	LGTH PAID (FT)	PIPE SIZE	PIPE TYPE	NOTES
FISH HATCHERY RD									
RP-1	R-1	R-2	11.00	N	0		24"	RCP	
RP-4	R-7	R-8	12.00	N	0		12"	RCP	
RP-5	R-8	R-9	17.00	N	0		12"	RCP	
RP-6	R-5	R-6	162.00	Y	162		15"	RCP	
RP-7	R-9	S-7A	19.00	Y	19		12"	RCP	
MARTIN ST									
RP-2	R-4	ADJ-1	30.00	Y	30		12"	RCP	
RP-3	R-5	R-4	36.00	Y	36		12"	RCP	

STORM SEWER SCHEDULE - STORM ADJUST, REMOVE, ABANDON & ULO

CANNONBALL PATH: PHASE 6



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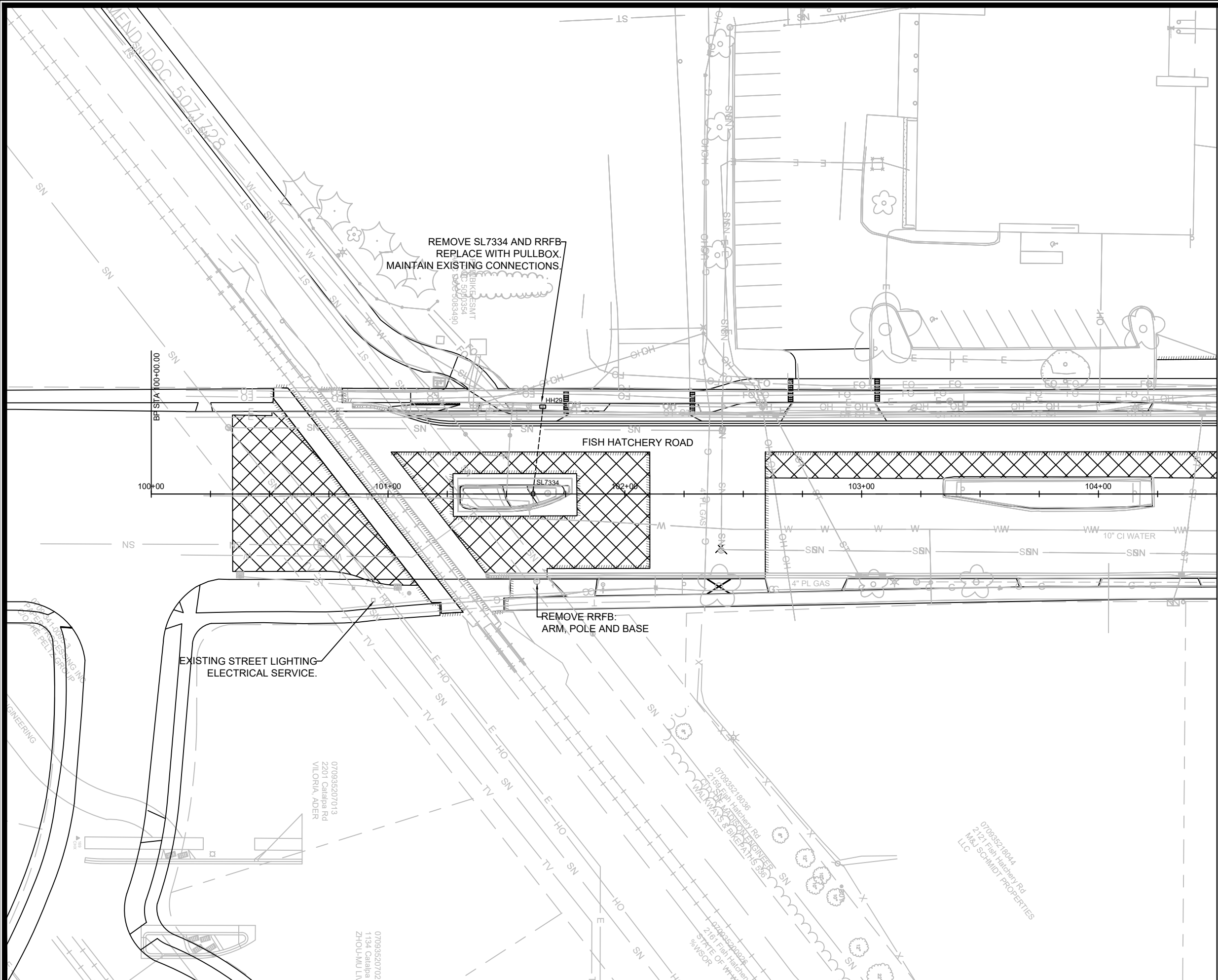
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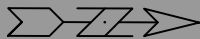
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ELECTRICAL NOTES:

1. ALL LOCATIONS ARE APPROXIMATE, THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK, IN THE FIELD AFTER CONTRACTOR SURVEYS STAKING. THE CONTRACTOR SHALL NOTIFY JERRY SCHIPPA (608 267-969), CITY OF MADISON TRAFFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING CONDUIT, BASE, OR PULLBOX LOCATIONS MARKED.
2. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH THE "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2024 EDITION" AND ALL ADDENDUMS THERETO.
3. ALL CONDUITS SHALL BE PVC, SCHEDULE 80 BENEATH PAVEMENT, AND SCHEDULE 40 CONDUIT OTHERWISE. PULL WIRE SHALL BE INSTALLED IN ALL CONDUITS PER STANDARD SPECIFICATION.
4. THE CONTRACTOR SHALL CALL CHAD VEINOT (608 285-2397) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF PLACING CONCRETE BASES, INSTALLING PULL BOXES, OR BURYING CONDUIT TO ARRANGE FOR INSPECTION.
5. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
6. EXISTING STREETLIGHTS SHALL BE MAINTAINED DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL ARRANGE FOR PICKUP OF THE FOLLOWING CITY FURNISHED MATERIALS BY CALLING ED SMITH (608 266-9034), AT THE CITY OF MADISON TRAFFIC ENGINEERING SHOP LOCATED AT 1120 SAYLE STREET.
 - 7.1. (24) - $\frac{3}{4}$ " x 19" ANCHOR BOLTS FOR TYPE GR BASES.
 - 7.2. (36) - $\frac{3}{4}$ " x 24" ANCHOR BOLTS FOR LB-2 BASES.
 - 7.3. (12) - 1" x 40" ANCHOR BOLTS FOR TYPE LB-3R BASES.
 - 7.4. (28) - 1 $\frac{1}{4}$ " x 48" ANCHOR BOLTS FOR TYPE LB-8R BASES.
 - 7.5. TS2 TRAFFIC SIGNAL CONTROL CABINET.
 - 7.6. OPTICAL SIGNAL PRE-EMPTION RECEIVERS.
 - 7.7. ACCESSIBLE PEDESTRIAN SIGNAL BUTTONS.
 - 7.8. RECTANGULAR RAPID FLASHING BEACON DEVICES.
8. TRAFFIC ENGINEERING SHALL ASSIST WITH THE PLACEMENT OF NON-INTRUSIVE DETECTION ZONE PLACEMENT AND PROGRAMMING DURING TRAFFIC SIGNAL TURN ON.
9. STANDARD DETAIL DRAWINGS AND STANDARD SPECIFICATIONS CAN BE FOUND AT THE FOLLOWING WEB ADDRESS
<https://www.cityofmadison.com/engineering/developers-contractors/standard-specifications>



MATCHLINE - (1)



DESIGNED BY	JLS	DATE	3/2/2026	SCALE	1" = 40'
CHECKED BY		DATE			
IN CHARGE		DATE			
REVISION		DATE			
MARK	10153				

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MADISON, WI
7431
CONTRACT NO:

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CANNONBALL PATH: PHASE 6
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10153
E - 2

ELECTRICAL NOTES:
- FOR TRAFFIC SIGNAL CONDUITS AT
CARVER & FISH HATCHERY ROAD, SEE
SHEET E-9.

MATCHLINE - (2)

MATCHLINE - (3)

FISH HATCHERY ROAD

REMOVE OVERHEAD ARM, DFB, AND POLE

INTERCEPT ALL CONDUIT
IN EXISTING PULLBOX.

070935200968
2001 Fish Hatchery Rd
MADISON NEWSPAPERS, INC

OVERHEAD TEMP LIGHTING TO END AT SL7324.
MAINTAIN EXISTING STREET LIGHT AND CIRCUITS HEADING NORTH.

TEMP LIGHTING ON WOOD POLE.
CIRCUIT TO COME OUT OF PULLBOX,
OVERHEAD TO SL7324.
TWIN 120W LED TEMP LIGHTING.

070935200976
1901 Fish Hatchery Rd
MADISON NEWSPAPERS INC
TAX DEPT

BICYCLE PATH & WALKWAY ESMT PER
DOC 1737834 - PARTIAL RELEASE OF ESMT
DOC 1921324

ELECTRICAL PLANS

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E - 4

MARK	REVISION	DATE	BY
10153	1	3/6/2026	JLS
Designed By: JLS		Scale: 1" = 40'	



MARK	REVISION		DATE	BY
	Designed By: JLS	Date: 3/16/26		
10153				E-5

MADISON, WI

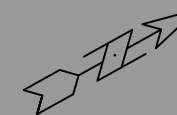
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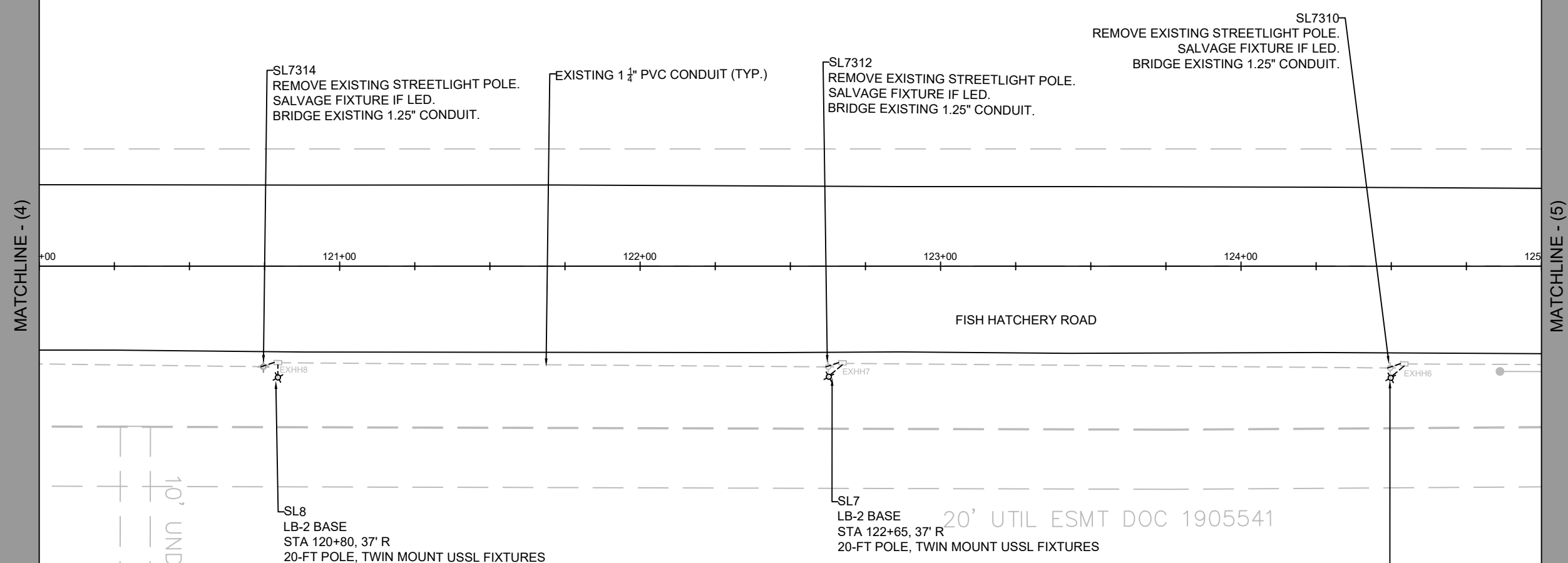
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ELECTRICAL PLANS

CANNONBALL PATH: PHASE 6

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E - 6



SL7303

131+00 132+00 133+00 134+00 134+48

FISH HATCHERY ROAD

PLAENERT DRIVE

WINGRA DRIVE

SL7302

EXHH2

EXHH1

A36 (STREETLIGHT)

SL7301

LB-2 BASE

FIELD LOCATED, 4' FROM PATH AND ABUTMENT.
20-FT POLE, TWIN MOUNT USSS FIXTURE

REMOVE EXISTING STREETLIGHT POLE.
SALVAGE FIXTURE IF LED.

EXISTING STREET LIGHTING SERVICE.

UG ELEC EAS
DOC 324898
SUPERCEEE
WITHIN L

EXISTING STREET LIGHTING SERVICE:

SL2
LB-2 BASE
FIELD LOCATED, 4' FROM PATH AND ABUTMENT.
20-FT POLE, TWIN MOUNT USSL FIXTURE

A36-

SL2-

SL1
LB-2 BASE

FIELD LOCATED, 4' FROM PATH AND ABUTMENT.
20-FT POLE, TWIN MOUNT USSL FIXTURE

10153
E - 8

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CONTRACT NO:

[illegible]



PED DETECTOR NOTES:

- 901 [VACANT]
902 EAST PED BUTTONS, CROSSING CARVER
903 PED BUTTONS FOR DIAGONAL BIKE CROSSING
904 NORTH BUTTONS CROSSING FISH HATCHERY ROAD
905 [VACANT]
906 WEST PED BUTTONS, CROSSING CARVER
907 [VACANT]
908 SOUTH BUTTONS CROSSING FISH HATCHERY ROAD

CONTROLLER LOGIC

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE LIGHTING CABINET	

TYPE OF REMOTE COMMUNICATION	
NONE	
FIBER	X
CELL MODEM	
PHONE	

DETECTION NOTES:

1. PED INPUTS ON 4 AND 8 WILL CALL BIKE PHASE 3
2. BIKE DETECTION CALLING PHASE 3 WILL NOT CALL PED PHASE 8.
3. PHASE 1 AND 5 WILL BE ALLOWED TO BE RE-SERVED
4. DETECTION TO BE PASSIVE VIDEO OR LIDAR DETECTION.

[illegible]

CITY OF MADISON, WI

CONTRACT NO:

CANNONBALL PATH: PHASE 6



E - 10

SIGNAL CABLE, IMSA-20-1, UNDERGROUND CONDUCTORS FISH HATCHERY ROAD & CARVER STREET																
FROM	TO	JUMPER	CABLE (CONDUCTORS)	SPARE CONDUCTORS	HEAD NUMBER	NEUTRAL	PHASE	GREEN	YELLOW (BALL OR ARROW)	FLASHING YELLOW ARROW	RED	WALK	DON'T WALK	PED BUTTON		
TC2	TS1		A(12-14)	5	13	WHITE	4	GREEN	ORANGE	-	RED	-	-	-		
					17		4	GREEN/BLACK	ORANGE/BLACK	-	RED/BLACK	-	-	-		
TC2	SL7323		B(12-14)	8	18	WHITE	4	GREEN	ORANGE	-	RED	-	-	-		
TC2	TS2		C(12-14)	4	3	WHITE	1, OLE	GREEN/BLACK	ORANGE/BLACK	BLACK	RED/BLACK	-	-	-		
					4		2	GREEN	ORANGE	-	RED	-	-	-		
TC2	SL11		D(12-14)	3	2	WHITE	1, OLE	GREEN/BLACK	ORANGE/BLACK	BLACK	RED/BLACK	-	-	-		
					19		5, OLG	GREEN	ORANGE	BLUE/BLACK	RED	-	-	-		
			E(12-14)	8	23	WHITE	6	GREEN	ORANGE	-	RED	-	-	-		
					-		-	-	-	-	-	-	-	-		
TC2	TS4		F(12-14)	5	8	WHITE	3	GREEN	ORANGE	-	RED	-	-	-		
					10		3	GREEN/BLACK	ORANGE/BLACK	-	RED/BLACK	-	-	-		
			G(12-14)	4	24	WHITE	6	GREEN	ORANGE	-	RED	-	-	-		
					6B		PED6	-	-	-	-	BLUE	BLACK	BLACK/WHITE		
TC2	TS5		H(12-14)	7	9	WHITE	3	GREEN	ORANGE	-	RED	-	-	BLACK/WHITE		
					-		-	-	-	-	-	-	-	-		
TC2	TS6		I(12-14)	5	14	WHITE	4	GREEN	ORANGE	-	RED	-	-	-		
					15		4	GREEN/BLACK	ORANGE/BLACK	-	RED/BLACK	-	-	-		
TC2	TS7		J(9-14)	5	15	WHITE	4	GREEN	ORANGE	-	RED	-	-	-		
					6A		PED6	-	-	-	-	BLUE	BLACK	BLACK/WHITE		
TC2	TS8		K(12-14)	1	21	WHITE	5, OLG	GREEN/BLACK	ORANGE/BLACK	BLUE/BLACK	RED/BLACK	-	-	-		
					22		6	GREEN	ORANGE	-	RED	-	-	-		
					8D		PED8	-	-	-	-	BLUE	BLACK	BLACK/WHITE		
TC2	SL7326		L(12-14)	3	1	WHITE	1, OLE	GREEN	ORANGE	BLUE/BLACK	RED	-	-	-		
					20		5, OLG	GREEN/BLACK	ORANGE/BLACK	WHITE/BLACK	RED/BLACK	-	-	-		
			M(12-14)	3	9	WHITE	2	GREEN	ORANGE	-	RED	-	-	-		
					8B		PED8	-	-	-	-	BLUE	BLACK	-		
					8C		PED8	-	-	-	-	BLUE/BLACK	RED/BLACK	BLACK/WHITE		
TC2	TS9		O(12-14)	5	7	WHITE	3	GREEN	ORANGE	-	RED	-	-	-		
					11		3	GREEN/BLACK	ORANGE/BLACK		RED/BLACK					
			P(12-14)	5	5	WHITE	2	GREEN	ORANGE	-	RED					
					8A		PED8	-	-	-	-	BLUE	BLACK	BLACK/WHITE		
TC2	TS10		Q(12-14)	8	12	WHITE	3	GREEN	ORANGE	-	RED	-	-	-		
					-		-	-	-	-	-	-	-	-		

NOTES:
CONTRACTOR SHALL LABEL EACH HOMERUN CABLE IN ACCORDANCE TO THIS SHEET (CABLE A-Q)
DETECTION AND APS BUTTON WIRING NOT DESCRIBED ON THIS SHEET.
RESERVE SPARE CONDUCTOR ON TS9 AND TS4 FOR BIKE CONFIRMATION BEACON.

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ELECTRICAL PLANS

CANNONBALL PATH: PHASE 6

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10153

E - 11

REVISION

DATE

BY

MARK

DESIGNED BY: JLS

DATE: 3/17/2026

Scale: N/A

10153

E - 11

10153 TRAFFIC SIGNAL CONDUIT							
From	To	60224	60232	60230	60222	60241	60261
		SCHEDULE 40 (LF)		SCHEDULE 80 (LF)		GOPHER RACEWAY	ELECTRICAL
		3" (LF)	2" (LF)	2" (LF)	3" (LF)	FOR ELECTRICAL CONDUIT	TRENCH (LF)
TC2	MGE SERVICE	15	-	-	-	-	15
TC2	HH17	45	45	-	-	-	15
HH17	TS1	-	5	-	-	-	5
HH17	TS10	-	15	-	-	-	15
HH17	SL7323	-	-	-	-	-	-
HH17	HH16	-	-	-	66	33	-
HH16	SL7323	-	5	-	-	-	5
HH16	HH15	90	-	-	-	-	45
HH15	TS2	-	6	-	-	-	6
HH15	HH14	-	-	96	-	48	-
HH14	TS3	-	6	-	-	-	6
HH14	HH13	-	-	-	60	30	-
HH13	TS4	-	8	-	-	-	-
HH13	HH23	40	40	-	-	-	40
HH23	TS5	-	10	-	-	-	10
HH23	TS6	-	6	-	-	-	6
HH23	HH22	-	-	35	70	35	-
HH22	TS7	-	20	-	-	-	20
HH22	HH21	100	50	-	-	-	50
HH21	TS8	-	6	-	-	-	-
HH21	HH19	-	-	-	75	75	-
HH21	HH20	-	-	44	44	-	-
HH20	HH19	-	-	31	31	-	-
HH20	SL7326	8	-	-	-	-	8
HH19	TS9	-	10	-	-	-	10
HH19	HH17	150	100	-	-	-	50
HH24	HH25	-	-	64	-	32	-
HH25	HH26	-	-	38	-	38	-
HH25	SL10	5	-	-	-	-	5
HH26	TS11	-	3	-	-	-	3
HH24	TS12	-	6	-	-	-	6
TOTALS		453	341	308	346	291	320

10153 TRAFFIC SIGNAL BASES								
DESCRIPTION	60413	60415	60416	60417	60423	60424	90078	90079
	P BASE	CONSTRUCT BASE TYPE			REMOVE TRAFFIC SIGNAL		FURNISH & INSTALL	
	(EACH)	LB-3R (EACH)	LB-8R (EACH)	LB-GR (EACH)	BASE (EACH)	POLE (EACH)	PEDESTAL BASE (EACH)	TRANSFORMER BASE (EACH)
TC2	1	-	-	-	-	-	-	-
TS1	-	-	-	1	-	-	1	-
TS2	-	-	1	-	-	-	-	1
SL11	-	-	1	-	-	-	-	1
TS4	-	-	1	-	1	1	-	-
TS6	-	-	-	1	-	-	1	-
TS7	-	-	-	1	-	-	1	-
TS8	-	-	-	1	1	1	1	-
SL7326	-	-	1	-	1	1	-	1
TS9	-	-	1	-	1	1	-	-
TS10	-	-	-	1	-	-	1	-
TS11	-	-	1	-	-	-	-	-
TS12	-	-	-	1	-	-	1	-
SL10	-	-	1	-	-	-	-	-
TOTALS	1	0	7	6	4	4	6	3

10153

MADISON, WI

7431

ELECTRICAL PLANS

CANNONBALL PATH: PHASE 6

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10153

E - 13

REVISION

DATE

BY

Scale: N/A

E - 13

10153 STREET LIGHTING CONDUITS

DESCRIPTION	60702	60706	60708	COMMENTS	
	CONSTRUCT ELECTRICAL HANDHOLE				
	REMOVE	TYPE I	TYPE V		TYPE VII
	HANDHOLES				
(EACH)	(EACH)	(EACH)	(EACH)		
HH27	-	1	-	-	
HH29	-	1	-	-	
HH33	-	1	-	-	
TOTALS	0	3	0	0	

10153 TRAFFIC SIGNAL CONDUITS

DESCRIPTION	CONSTRUCT ELECTRICAL HANDHOLE				COMMENTS
	REMOVE HANDHOLES (EACH)	60702 TYPE I (EACH)	60706 TYPE V (EACH)	60708 TYPE VII (EACH)	
HH17	-	-	-	1	
HH16	-	-	1	-	
HH15	1	-	1	-	
HH14	1	-	1	-	
HH13	-	-	1	-	
EXHH12	1	-	-	-	
HH23	-	-	1	-	
HH22	-	-	1	-	
HH21	1	-	1	-	
HH20	1	-	1	-	
HH19	-	-	1	-	
EXHH18	1	-	-	-	
HH24	-	-	1	-	
HH25	-	1	-	-	
HH26	-	1	-	-	
TOTALS	6	2	10	1	

10153 FIBER CONDUITS

DESCRIPTION	CONSTRUCT ELECTRICAL HANDHOLE				COMMENTS
	REMOVE HANDHOLES	60702 TYPE I	60706 TYPE V	60708 TYPE VII	
	(EACH)	(EACH)	(EACH)	(EACH)	
HH28	-	-	1	-	
HH31	-	-	1	-	
HH32	-	-	-	1	
TOTALS	0	0	2	1	

TRAFFIC SIGNAL CONDUCTORS

		60269	90065	60292	60296	COMMENTS
		FURNISH & INST ALL TRAFFIC SIGNAL CABLE		FURNISH & INST ALL 24-CT FIBER OPTIC CABLE	FURNISH & INST ALL 24-CT FIBER OPTIC CABLE	
FROM	TO	12-14 AWG (LF)	10 AWG (LF)	(LF)	(LF)	
TC2	TS1	30	30	-	-	(2) - 12-14 AWG CABLES (2) - 12-14 AWG CABLES
TC2	SL7323	65	65	-	-	
TC2	TS2	115	115	-	-	
TC2	TS3	360	150	-	-	
TC2	TS4	440	190	-	-	
TC2	TS5	240	230	-	-	(2) - 12-14 AWG CABLES
TC2	TS6	230	220	-	-	
TC2	TS7	205	195	-	-	
TC2	TS8	145	135	-	-	
TC2	SL7326	270	105	-	-	
TC2	TS9	200	70	-	-	(2) - 12 -14 AWG CABLES
TC2	TS10	80	40	-	-	
TC2	HH32	-	-	650	-	NEW SPLICE AT MARTIN + 50' SLACK SPLICE AT BADGER + 100' SLACK
HH32	SPLICE	-	-	-	2100	
		-	-			
TOTALS		2380	1545	650	2100	



FISH HATCHERY & CARVER TRAFFIC SIGNAL EQUIPMENT											
STRUCTURE	90080 INSTALL CITY FURNISHED TS2 TRAFFIC SIGNAL CABINET (EACH)	90064 SIGNAL STANDARD 15' ALUMINUM (EACH)	90065 POLE 20-FT ALUMINUM, 7 GAUGE (EACH)	90068 TROMBONE ARM 12-FT (EACH)	90069 TROMBONE ARM 18-FT (EACH)	90073 16-INCH PEDESTRIAN SIGNAL W/COUNTDOWN (EACH)	90070 3-SECTION 12-INCH TRAFFIC SIGNAL (EACH)	90071 4-SECTION 12-INCH TRAFFIC SIGNAL (EACH)	90072 3-SECTION 4-INCH BIKE SIGNAL (EACH)	90074 ACCESSIBLE PEDESTRIAN SIGNAL BUTTON (EACH)	90081 INSTALL EVP SYSTEM (EACH)
TC2	1	-	-	-	-	-	-	-	-	-	-
TS1	-	1	-	-	-	-	2	-	-	-	-
SL7323	-	-	-	-	-	-	1	-	-	-	-
TS2	-	-	1	-	-	-	1	1	-	-	1
SL11	-	-	-	1	-	-	1	2	-	-	1
TS4	-	-	1	1	-	1	2	-	1	1	-
TS5	-	1	-	-	-	-	1	-	-	-	-
TS6	-	1	-	-	-	-	2	-	-	-	-
TS7	-	1	-	-	-	1	1	-	-	1	-
TS8	-	1	-	-	-	1	1	1	-	1	-
SL7326	-	-	-	1	-	2	1	2	-	1	-
TS9	-	-	1	1	-	1	2	-	1	1	-
TS10	-	1	-	-	-	-	1	-	-	-	-
TS11	-	-	1	-	1	-	-	-	-	-	-
TS12	-	-	-	-	1	-	-	-	-	-	-
SL10	-	-	-	-	-	-	-	-	-	-	-
TOTAL:	1	6	4	4	2	6	16	6	2	5	2

STREETLIGHT BASES														
DESCRIPTION	60401	60415	60416	60421	60422	90063	90067		90066	90076	90060	90061	90062	COMMENTS
	CONSTRUCT BASE TYPE			REMOVE STREET LIGHT		FURNISH AND INSTALL STREET LIGHT POLE			INSTALL AND MAINTAIN SUPPORT STRUCTURES	FURNISH & INSTALL STREET LIGHT FIXTURE				
	LB-2 (EACH)	LB-3R (EACH)	LB-8R (EACH)	BASE (EACH)	POLE (EACH)	20-FT BIKE PATH (EACH)	30-FT, 11 GAUGE, DRILLED (EACH)	30-FT, 7 GAUGE, DRILLED (EACH)	FOR TEMPORARY LIGHTING (EACH)	TYPE 1 (BIKE PATH) (EACH)	TYPE 2 (STREET) (EACH)		TYPE 3 (BIKE PATH OVER STREET) (EACH)	
SL1	1	-	-	-	-	1	-	-	-	-	1	-	-	TWIN MOUNT DRILLED
A36	-	-	-	-	1	-	-	-	-	-	-	-	-	
SL2	1	-	-	-	-	1	-	-	-	1	-	1		
SL7302	-	-	-	-	-	-	-	-	-	-	-	-	-	MAINTAIN EXISTING
SL7303	-	-	-	-	-	-	-	-	-	-	-	-	-	MAINTAIN EXISTING
SL7304	-	-	-	-	1	-	-	-	-	-	-	-	-	
SL3	1	-	-	-	-	1	-	-	-	1	-	1		
SL7306	-	-	-	-	1	-	-	-	-	-	-	-	-	
SL4	1	-	-	-	-	1	-	-	-	1	-	1		
SL7308	-	-	-	-	1	-	-	-	-	-	-	-	-	
SL5	1	-	-	-	-	1	-	-	-	1	-	1		
SL7310	-	-	-	-	1	-	-	-	-	-	-	-	-	
SL6	1	-	-	-	-	1	-	-	-	1	-	1		
SL7312	-	-	-	-	1	-	-	-	-	-	-	-	-	
SL7	1	-	-	-	-	1	-	-	-	1	-	1		
SL7314	-	-	-	-	1	-	-	-	-	-	-	-	-	
SL8	1	-	-	-	-	1	-	-	-	1	-	1		
SL7316	-	-	-	-	1	-	-	-	-	-	-	-	-	
SL9	1	-	-	-	1	1	-	-	-	1	-	1		
SL7323	-	-	-	-	-	-	-	-	-	-	-	-	-	MAINTAIN EXISTING
SL7326	-	-	-	-	-	-	-	1	-	-	2	-	-	
SL7324	-	-	-	-	-	-	-	-	-	-	-	-	-	MAINTAIN EXISTING
SL7329	-	1	-	1	1	-	1	-	-	-	1	-	-	
SL10	-	-	-	-	-	-	-	1	-	-	2	-	-	
SL7331	-	1	-	1	1	-	1	-	-	-	1	-	-	MOUNT OVER PATH
SL7334	-	1	-	1	1	-	1	-	-	-	2	-	-	
WP1	-	-	-	-	-	-	-	-	1	-	-	-	-	
WP2	-	-	-	-	-	-	-	-	1	-	-	-	-	
SL11	-	-	-	-	-	-	-	1	-	-	2	-	-	
TOTALS	9	3	0	3	12	9	3	3	2	9	10	8		

10153

MADISON, WI

7431

CONTRACT NO:

ELECTRICAL PLANS

CANNONBALL PATH: PHASE 6

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10153

E - 15

REVISION

DATE

BY

MARK

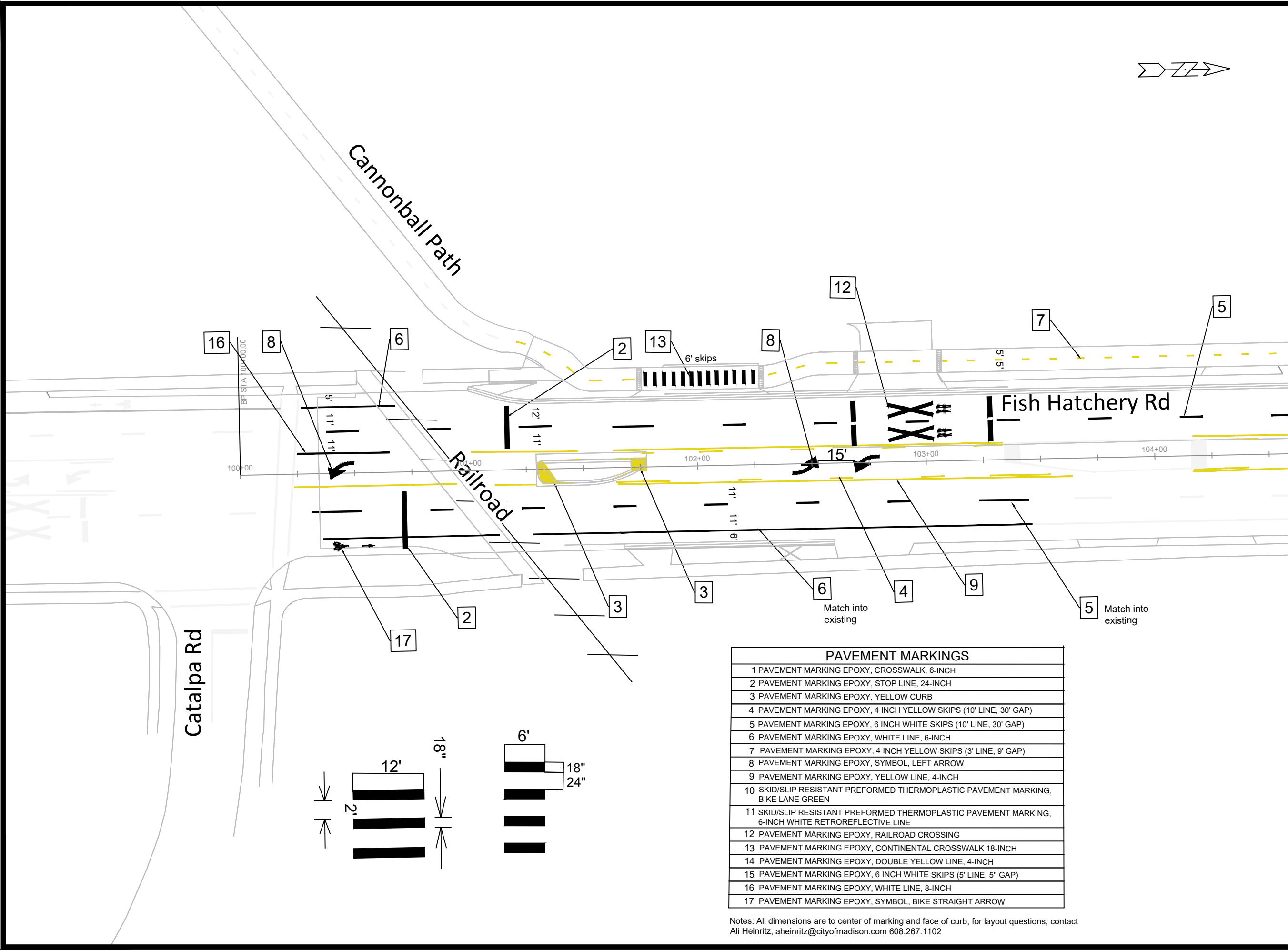
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Date: 3/17/2026

Scale: N/A

10153

E - 15



ML - (17)

PAVEMENT MARKINGS	
1	PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH
2	PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH
3	PAVEMENT MARKING EPOXY, YELLOW CURB
4	PAVEMENT MARKING EPOXY, 4 INCH YELLOW SKIPS (10' LINE, 30' GAP)
5	PAVEMENT MARKING EPOXY, 6 INCH WHITE SKIPS (10' LINE, 30' GAP)
6	PAVEMENT MARKING EPOXY, WHITE LINE, 6-INCH
7	PAVEMENT MARKING EPOXY, 4 INCH YELLOW SKIPS (3' LINE, 9' GAP)
8	PAVEMENT MARKING EPOXY, SYMBOL, LEFT ARROW
9	PAVEMENT MARKING EPOXY, YELLOW LINE, 4-INCH
10	SKID/SLIP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING, BIKE LANE GREEN
11	SKID/SLIP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6-INCH WHITE RETROREFLECTIVE LINE
12	PAVEMENT MARKING EPOXY, RAILROAD CROSSING
13	PAVEMENT MARKING EPOXY, CONTINENTAL CROSSWALK 18-INCH
14	PAVEMENT MARKING EPOXY, DOUBLE YELLOW LINE, 4-INCH
15	PAVEMENT MARKING EPOXY, 6 INCH WHITE SKIPS (5' LINE, 5" GAP)
16	PAVEMENT MARKING EPOXY, WHITE LINE, 8-INCH
17	PAVEMENT MARKING EPOXY, SYMBOL, BIKE STRAIGHT ARROW

Notes: All dimensions are to center of marking and face of curb, for layout questions, contact Ali Heinritz, aheinritz@cityofmadison.com 608.267.1102

MARK	REVISION	DATE	BY
10153	1	5/27/2026	PM-1

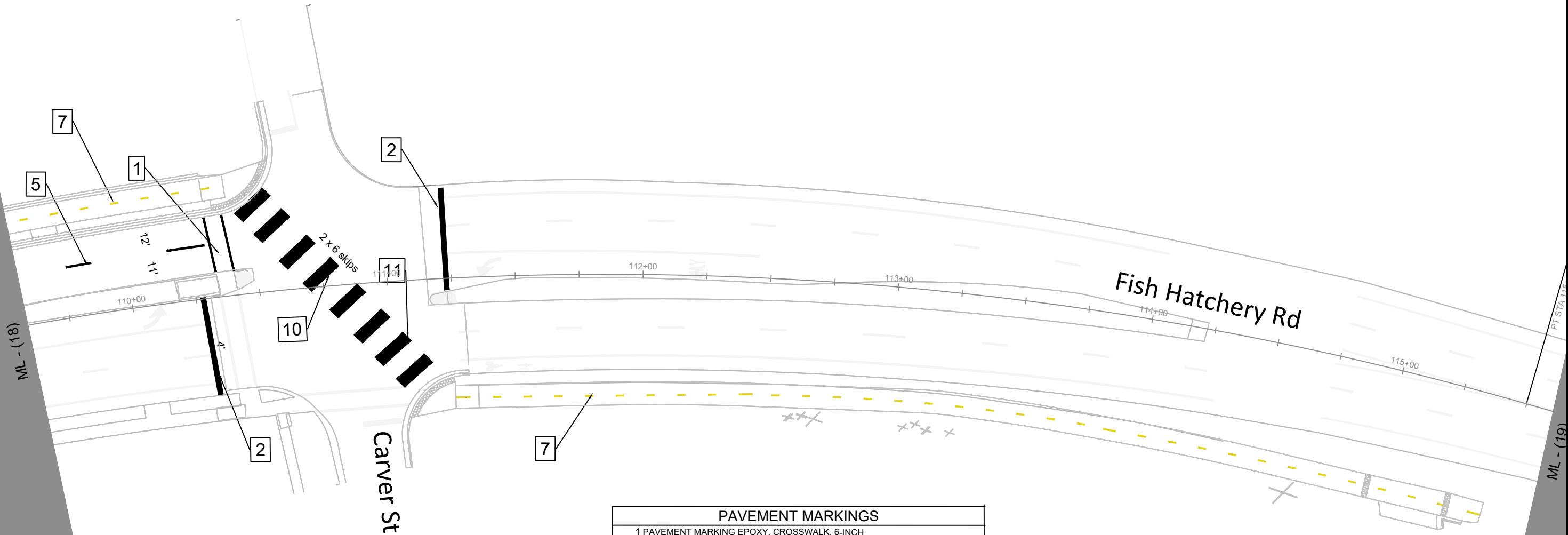
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PAVEMENT MARKING PLANS	CANNONBALL PATH - PHASE 6	CONTRACT NO:
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PM-2

Notes: All dimensions are to center of marking and face of curb, for layout questions, contact Ali Heinritz, aheinritz@cityofmadison.com 608.267.1102



PAVEMENT MARKINGS

1	PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH
2	PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH
3	PAVEMENT MARKING EPOXY, YELLOW CURB
4	PAVEMENT MARKING EPOXY, 4 INCH YELLOW SKIPS (10' LINE, 30' GAP)
5	PAVEMENT MARKING EPOXY, 6 INCH WHITE SKIPS (10' LINE, 30' GAP)
6	PAVEMENT MARKING EPOXY, WHITE LINE, 6-INCH
7	PAVEMENT MARKING EPOXY, 4 INCH YELLOW SKIPS (3' LINE, 9' GAP)
8	PAVEMENT MARKING EPOXY, SYMBOL, LEFT ARROW
9	PAVEMENT MARKING EPOXY, YELLOW LINE, 4-INCH
10	SKID/SLIP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING, BIKE LANE GREEN
11	SKID/SLIP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6-INCH WHITE RETROREFLECTIVE LINE
12	PAVEMENT MARKING EPOXY, RAILROAD CROSSING
13	PAVEMENT MARKING EPOXY, CONTINENTAL CROSSWALK 18-INCH
14	PAVEMENT MARKING EPOXY, DOUBLE YELLOW LINE, 4-INCH
15	PAVEMENT MARKING EPOXY, 6 INCH WHITE SKIPS (5' LINE, 5' GAP)
16	PAVEMENT MARKING EPOXY, WHITE LINE, 8-INCH
17	PAVEMENT MARKING EPOXY, SYMBOL, BIKE STRAIGHT ARROW

10153

MADISON, WI

CONTRACT NO: 7431

PAVEMENT MARKING PLANS

CANNONBALL PATH - PHASE 6

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10153

PM-3

MARK

DESIGNED BY: AUC

10153

REVISION

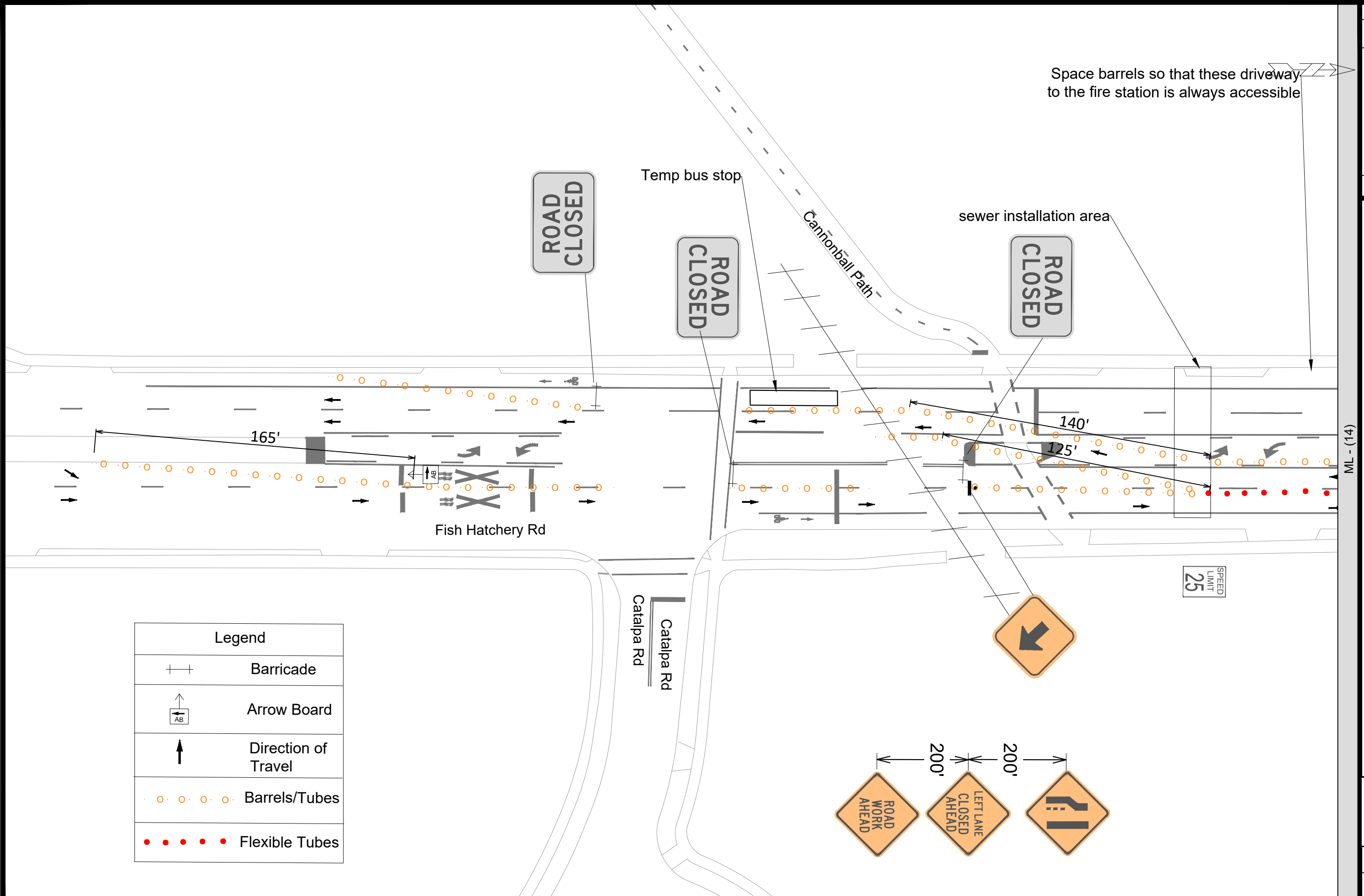
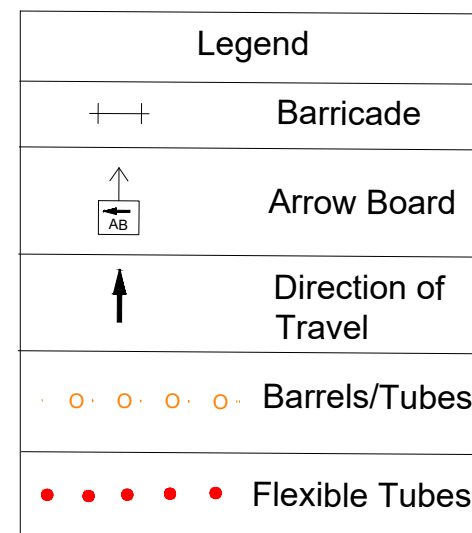
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BY

DATE

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PM-3

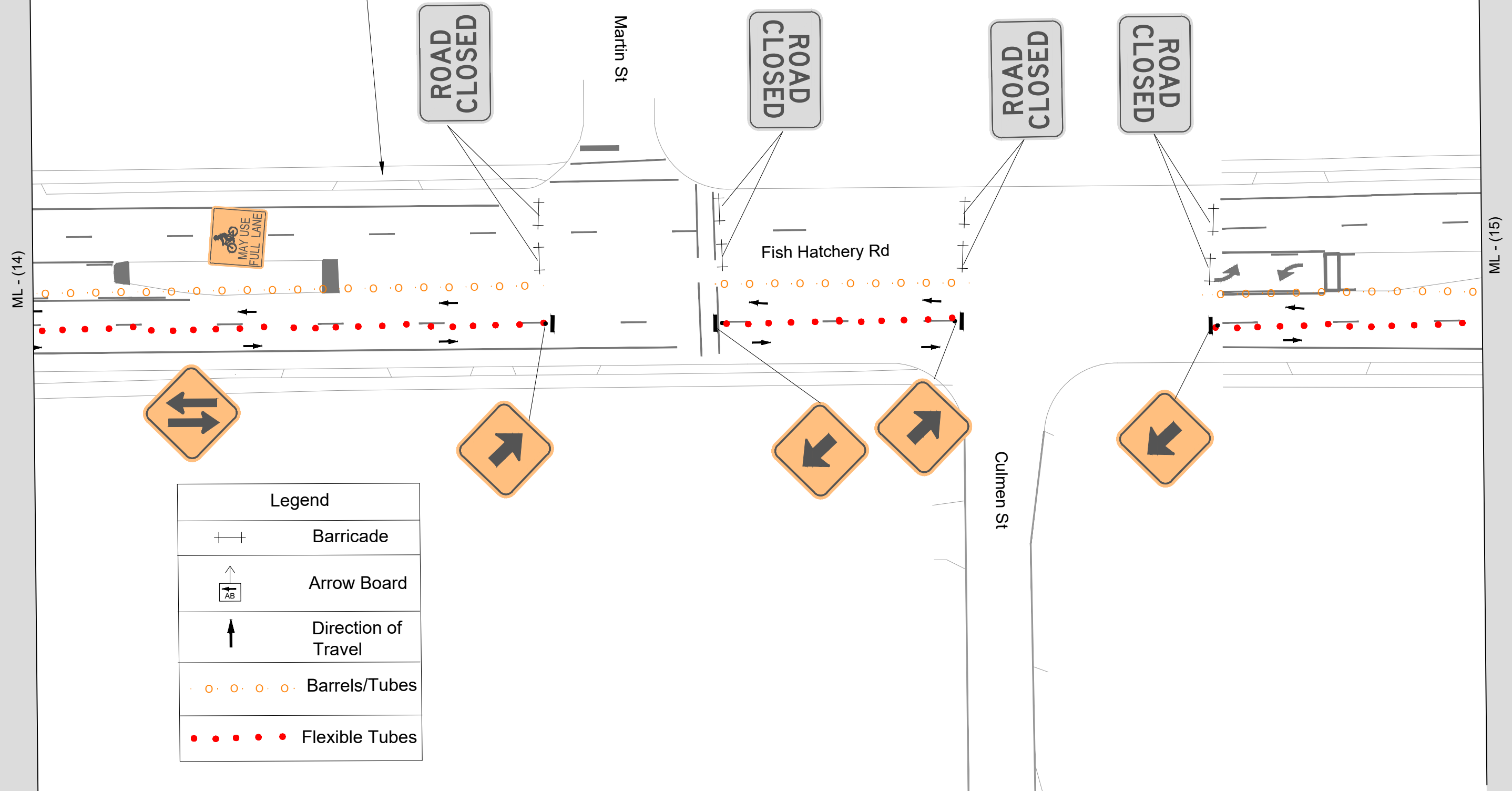
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10153_TRAFFIC CONTROL PHASE 3	10153
CANNONBALL PATH - PHASE 6	MADISON, WI
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CONTRACT NO:	7431



10153
TC 3-1

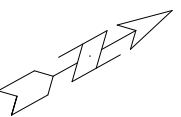
Space barrels so that these driveway
to the fire station is always accessible

[illegible]

10153_TRAFFIC CONTROL PHASE 3	MADISON, WI	10153
CANNONBALL PATH - PHASE 6		
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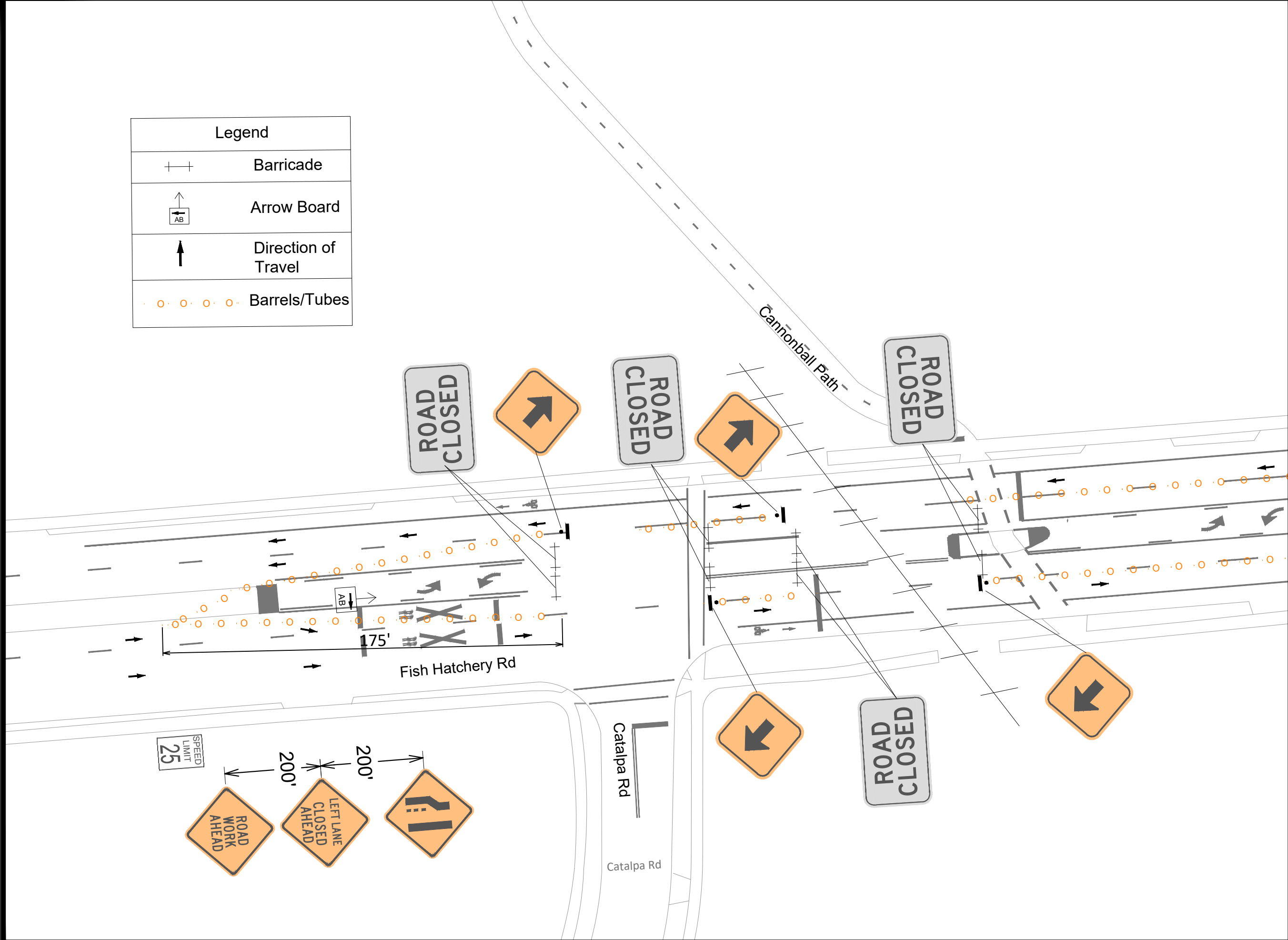
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TC 3-2



10153

TC 3-4

Legend	
	Barricade
	Arrow Board
	Direction of Travel
	Barrels/Tubes



ML - (14)

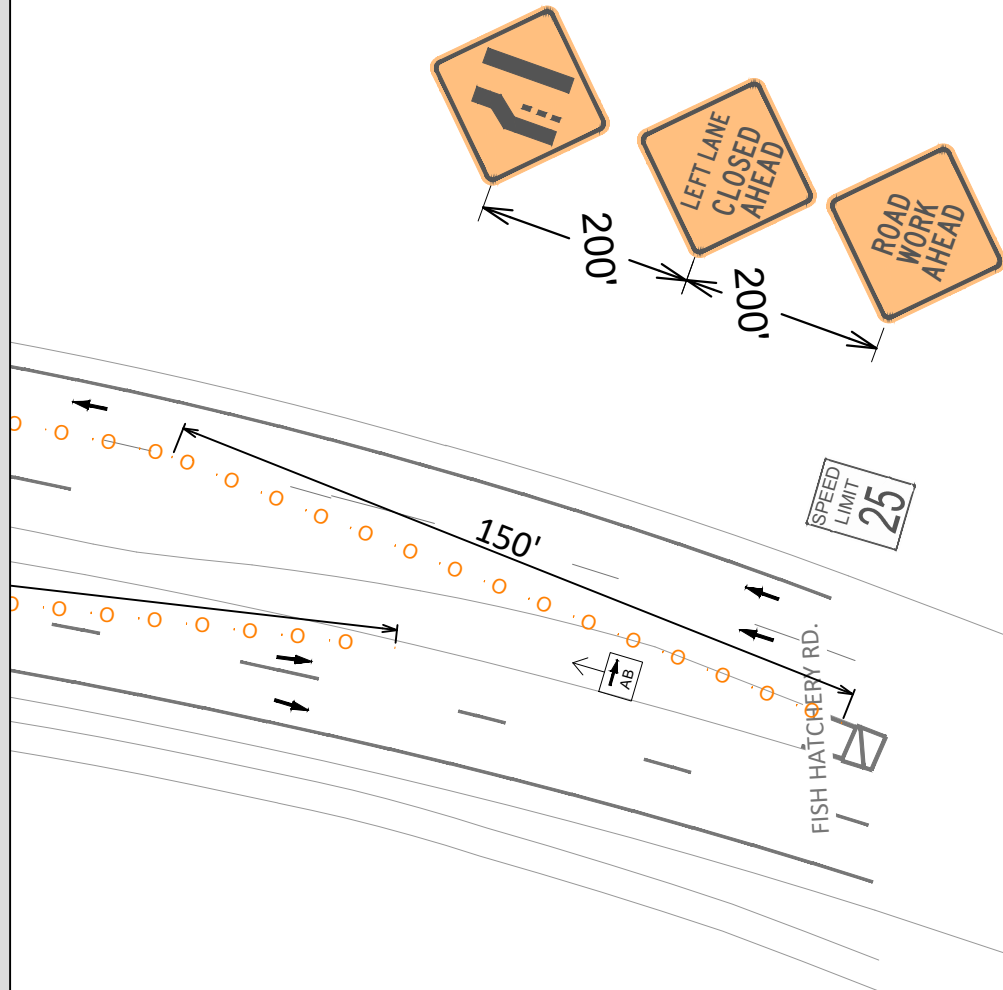


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	TC 4-1	TC 4-1
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CANNONBALL PATH - PHASE 6		
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DESIGNED BY: AUC		10153
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REVISION		10153
BY		10153
Scale: 1" = 40'		10153



 10153 TC 4-3	10153_TRAFFIC CONTROL PHASE 4		10153
	CANNONBALL PATH - PHASE 6		MADISON, WI
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	MARK	REVISION	DATE
	Designed By: AJC		Date: 5/22/2026 12:42 PM
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ML - (16)



Legend	
	Barricade
	Arrow Board
	Direction of Travel
	Barrels/Tubes



10153
TC 4-4

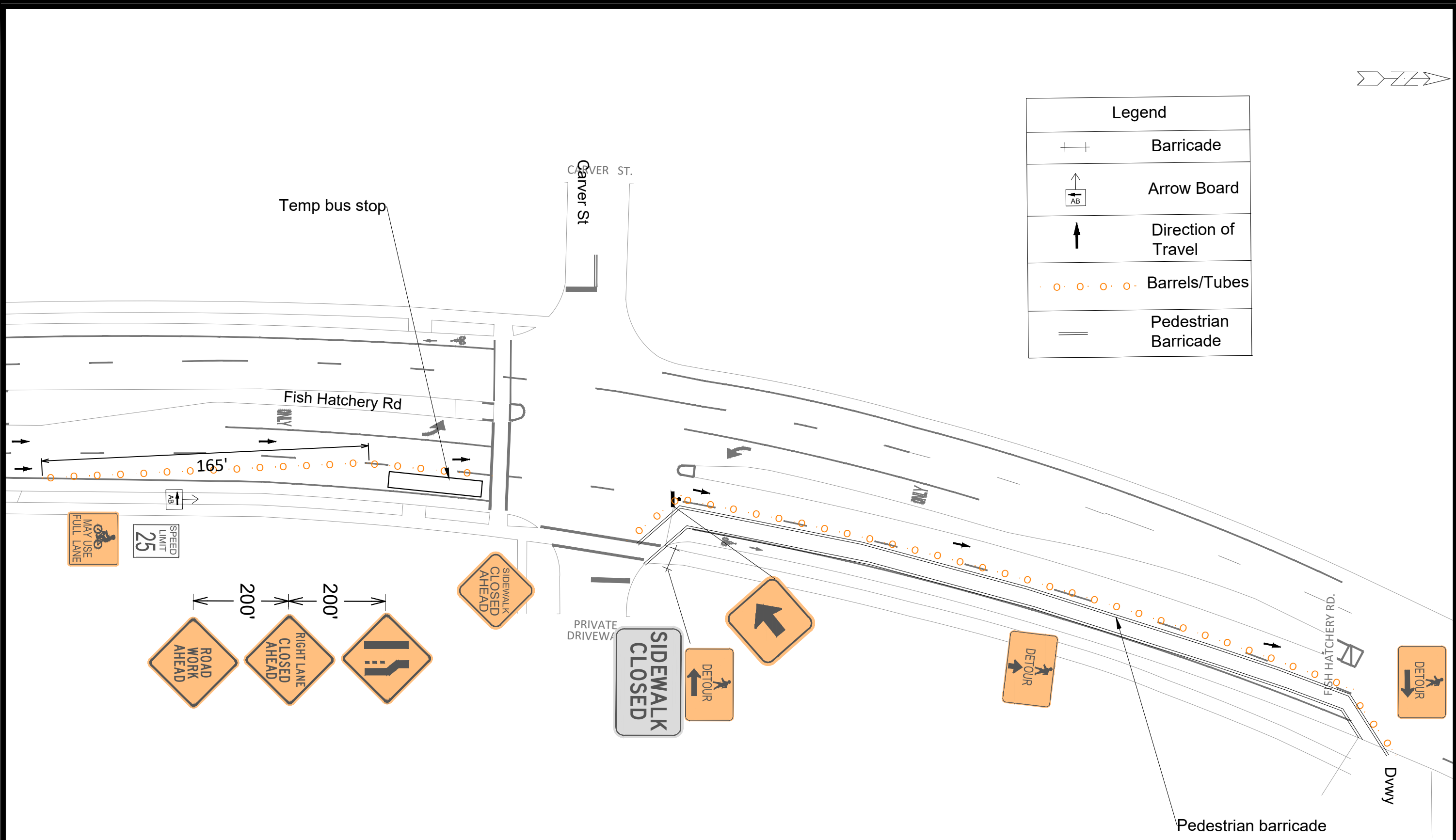
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CANNONBALL PATH - PHASE 6

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10153
MADISON, WI

CONTRACT NO: 7431

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10153	10153	5/22/2026 12:43 PM	TC 4-4



Legend	
	Barricade
	Arrow Board
	Direction of Travel
	Barrels/Tubes
	Pedestrian Barricade

10153
TC 5

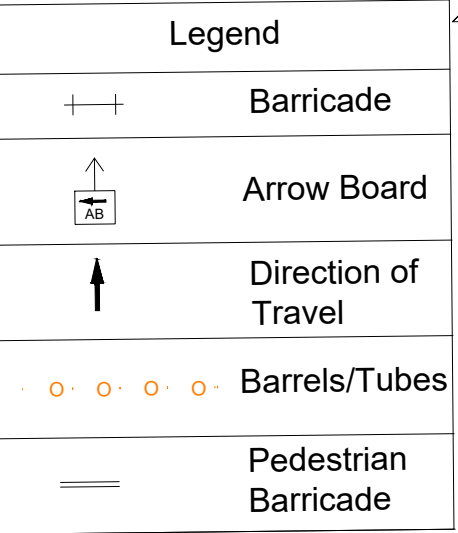
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CANNONBALL PATH - PHASE 6

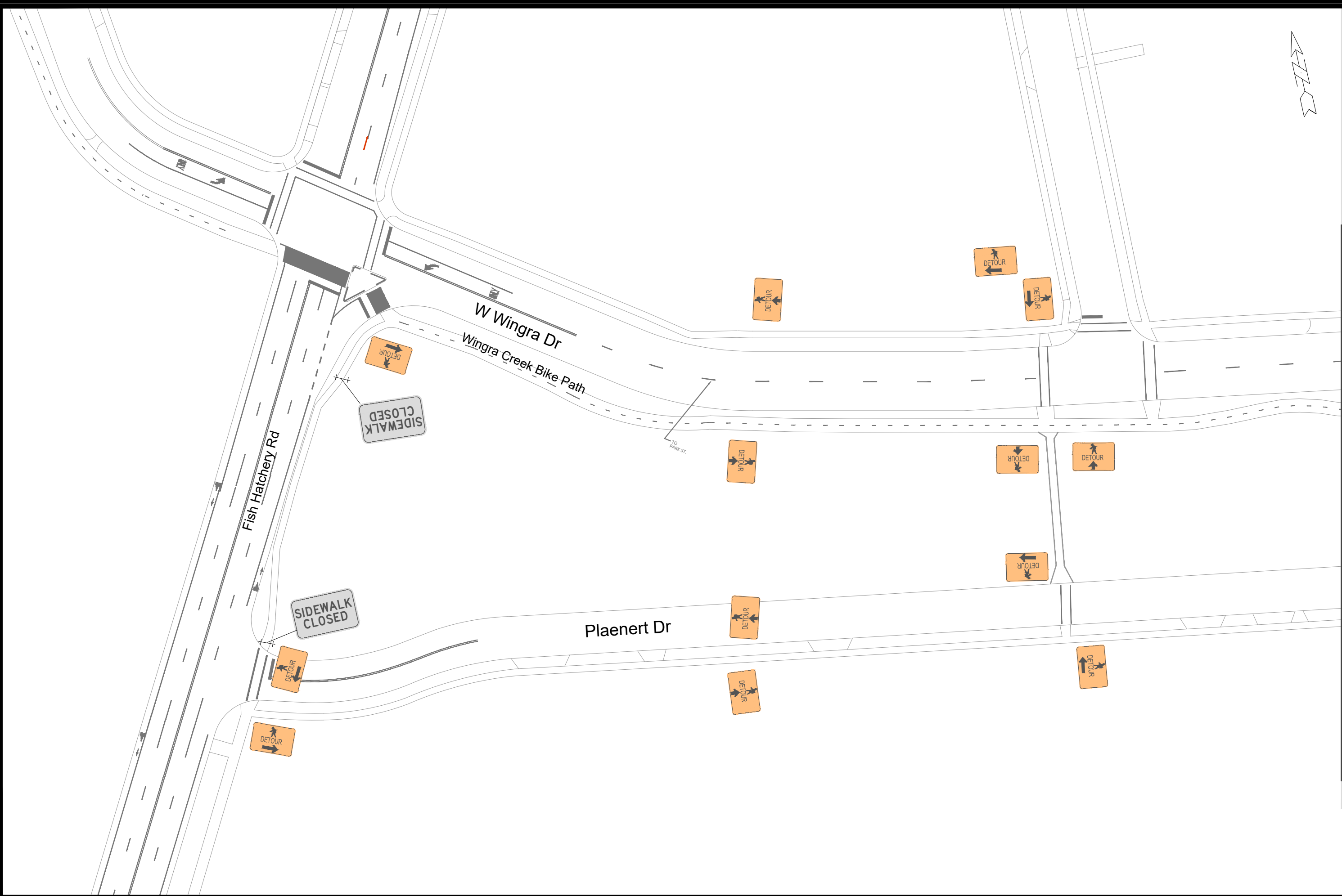
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MADISON, WI

CONTRACT NO: 7431

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10153
TC-6-2

10153_ TRAFFIC CONTROL PHASE 6 PED BIKE DETOUR

CANNONBALL PATH - PHASE 6

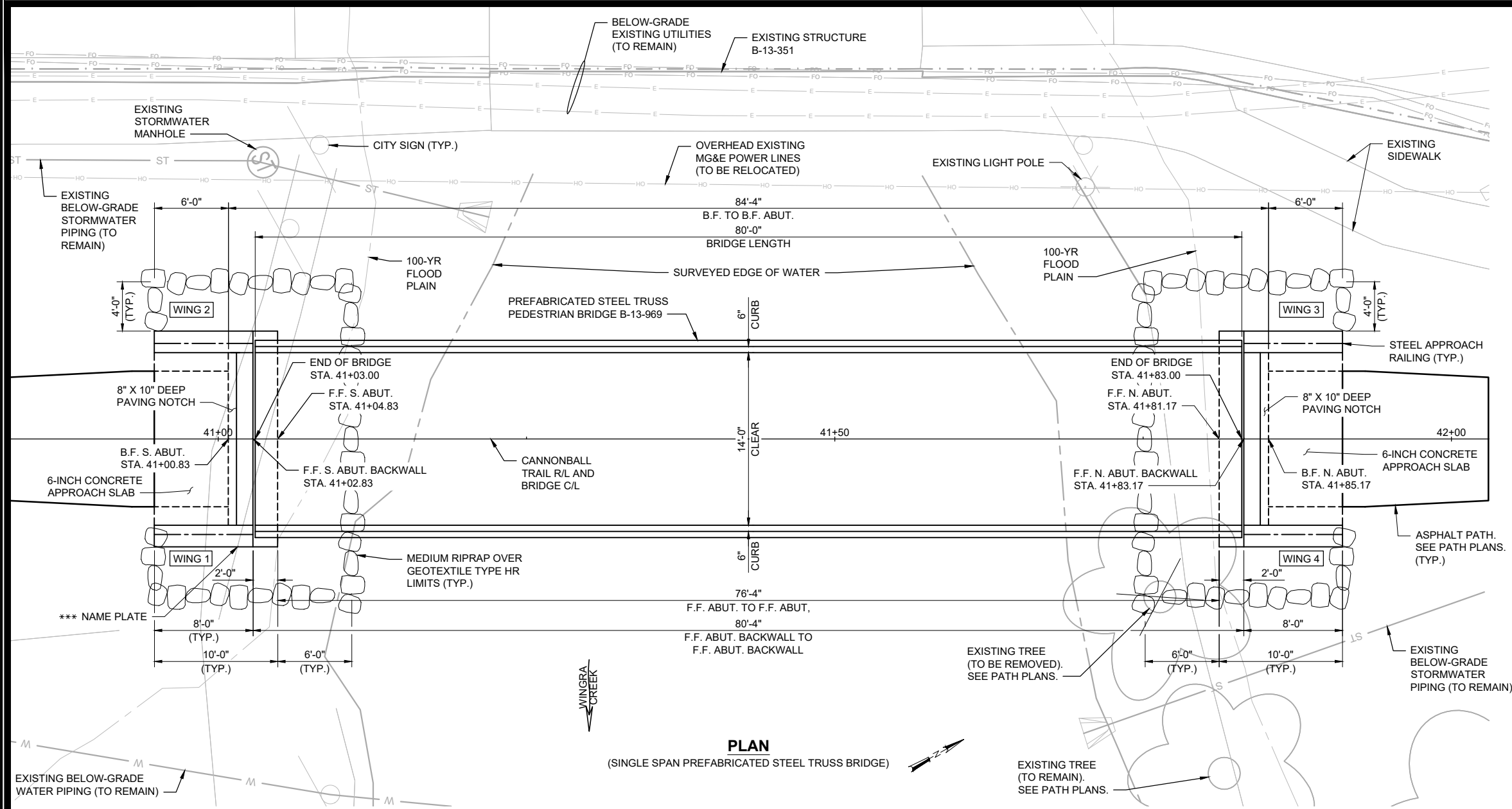
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10153
MADISON, WI

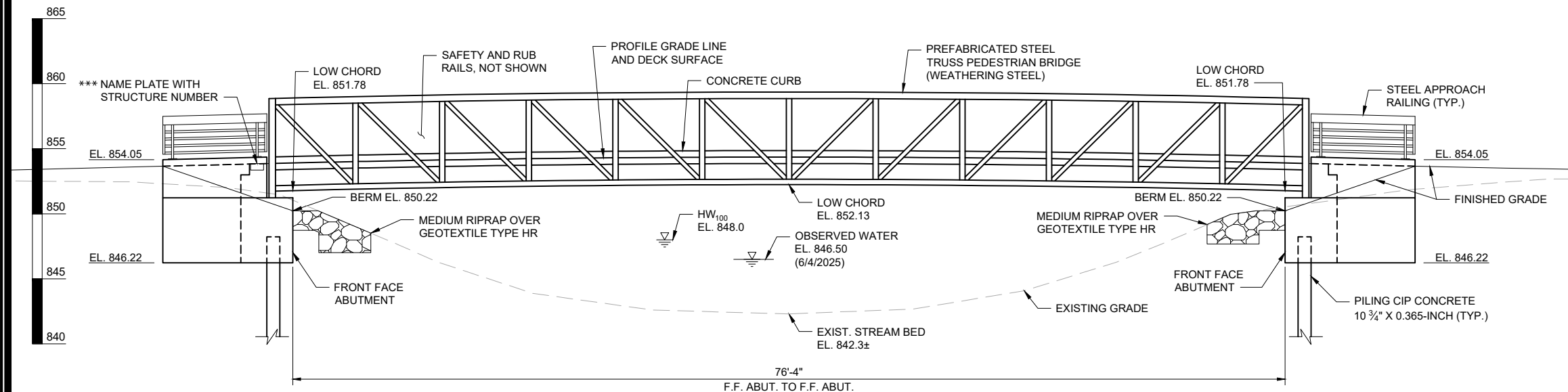
CONTRACT NO: 7431

10153

DATE	BY
5/22/2026	Custom
REVISION	Scale
10153	TC-6-2



PLAN
(SINGLE SPAN PREFABRICATED STEEL TRUSS BRIDGE)



ELEVATION
(LOOKING WEST)

DESIGN DATA

LIVE LOAD:
90 PSF PEDESTRIAN LOAD
20,000 LB. VEHICLE LOAD (H-10)
35 PSF WIND LOAD (AS IF ENCLOSED)
20 PSF WIND UPLIFT
HORIZONTAL EARTH PRESSURE:
40 P.S.F. EQUIVALENT FLUID PRESSURE.
SURCHARGE PRESSURE = 2'-0" OF EARTH.
MATERIAL DESIGN PROPERTIES:
CONCRETE DECK $f'_c = 4,000$ psi
CONCRETE SUBSTRUCTURE $f'_c = 3,500$ psi
HIGH STRENGTH BAR
STEEL REINFORCEMENT $f_y = 60,000$ psi
HIGH STRENGTH STRUCTURAL STEEL
ASTM A847, ASTM A588, ASTM A606,
ASTM A709 OR ASTM A242 $f_y = 50,000$ psi
FOUNDATION DATA:
ABUTMENT TO BE SUPPORTED ON 10 3/4" x 0.365-INCH C.I.P. PILING,
DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 115 TONS** PER
PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 55' LONG AT SOUTH ABUTMENT AND 55' LONG AT
NORTH ABUTMENT.

** 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 BRIDGE REACTIONS

LOAD TYPE	P (LBS.)	H (LBS.)	L (LBS.)
DEAD LOAD	23,600		
UNIFORM LIVE LOAD, 90 psf	25,200		
VEHICLE LIVE LOAD	10,000		
WIND UPLIFT, 20 psf WINDWARD/LEEWARD	-9,100 / -3,050		
WIND	±2,900	10,000	
SEISMIC			
THERMAL			3,540

P = VERTICAL LOAD AT EACH BASE PLATE (4 PER BRIDGE)
H = HORIZONTAL LOAD AT EACH SPAN END (2 PER BRIDGE)
L = LONGITUDINAL LOAD AT FIXED BEARING (4 PER BRIDGE)
NOTES:
1. VALUES IN THIS TABLE ARE ESTIMATES. ACTUAL VALUES SHALL
BE PROVIDED BY PREFABRICATED BRIDGE MANUFACTURER.
2. "+" INDICATES DOWNWARD LOAD.
3. "-" INDICATES UPWARD LOAD.
ESTIMATED BRIDGE LIFTING WEIGHT = 23,800 LBS
(TO BE VERIFIED BY BRIDGE MANUFACTURER)

LEGEND

*** PROVIDE STRUCTURE NUMBER NAME PLATE PER WISDOT STANDARD
SPECIFICATION SECTION 506. COST IS INCLUDED WITH THE BID ITEM,
"PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-13-969 LRFD".

LIST OF STRUCTURE DRAWINGS

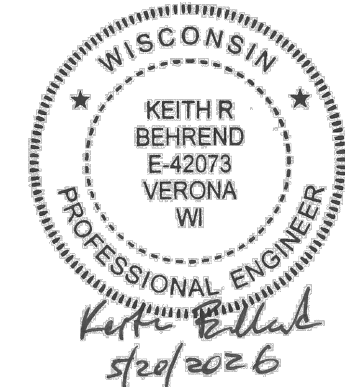
S1 BRIDGE PLAN & ELEVATION (B-13-969)
S2 CROSS SECTION, NOTES & DETAILS
S3 ABUTMENT PLAN
S4 ABUTMENT DETAILS
S5 STRUCTURE DETAILS
S6 STEEL APPROACH RAILING DETAILS

HYDRAULIC DATA

HW₁₀₀ ELEV. 848.0
HW₁₀ ELEV. 847.4

CONSULTANT DESIGN CONTACT

JOSH PEPLINSKI PH: (608) 251-4843





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)
 $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)$
 $V_{CY} = V_{CF}(EF)/27$
 $V_{TON} = V_{CY}(2.0)$



LEGEND

- ⚠ BACKFILL STRUCTURE TYPE A PAY LIMITS, BACKFILL BEYOND 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 RODENT SHIELD DETAIL ON SHEET S3.**

GENERAL NOTES

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.

ALL BAR STEEL IN BRIDGE DECK AND APPROACH SLABS SHALL BE EPOXY COATED.

THE FIRST ONE OR TWO DIGITS OF THE REINFORCING BAR MARK SIGNIFY THE BAR SIZE.

THE EMBANKMENTS ADJACENT TO THE BRIDGE SHALL BE COVERED WITH MEDIUM RIPRAP AND RIPRAP FILTER FABRIC TYPE HR TO THE EXTENT SHOWN ON THE PLAN OR AS REQUESTED BY THE CITY.

TREAT TIMBER RAILING LUMBER IN ACCORDANCE WITH AWPA USE CATEGORY UC3B. NOMINAL SIZE TIMBER RAILING MATERIAL SHALL BE SURFACED TO S4S.

AT THE BACK FACE OF ABUTMENTS ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

ALL STRUCTURAL STEEL SHALL BE UNPAINTED EXCEPT STEEL APPROACH RAILINGS.

NUMBER OF TRUSS PANELS TO BE DETERMINED BY BRIDGE MANUFACTURER.

BEVEL ALL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS SHOWN OTHERWISE.

SAFETY RAIL, WOOD RUB RAIL, BEARING PLATES, BEARING PADS, AND ANCHOR BOLTS TO BE PROVIDED BY BRIDGE MANUFACTURER.

THE SUPERSTRUCTURE SHALL BE ANCHORED TO THE FOUNDATIONS IN A MANNER TO:

- ALLOW THERMAL MOVEMENTS OF THE SUPERSTRUCTURE.
- PREVENT HORIZONTAL TRANSLATION OF THE SUPERSTRUCTURE PERPENDICULAR TO THE $\hat{C}$ OF THE PATH.

PROVIDE PROTECTIVE SURFACE TREATMENT TO TOP SURFACE OF CONCRETE DECK AND APPROACHES, TOP SURFACES OF ABUTMENT BODIES AND WINGS, AND VERTICAL AND HORIZONTAL SURFACES OF PAVING NOTCHES AND CURBS.

ALL ELEVATIONS SHOWN ARE BASED ON NAVD88 DATUM.

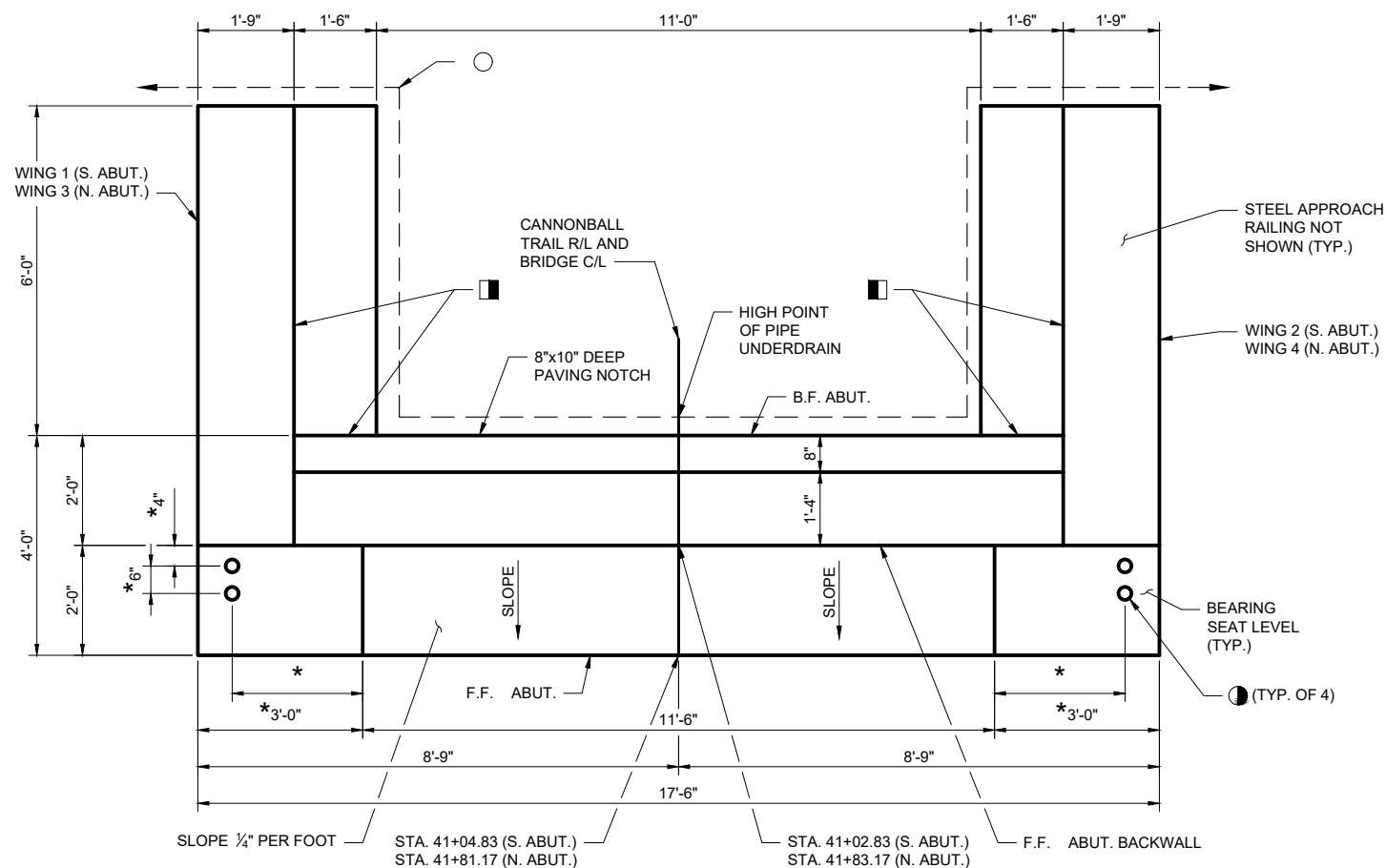
EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES CITY APPROVAL.
GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-13-969" SHALL BE EXISTING GROUNDLINE

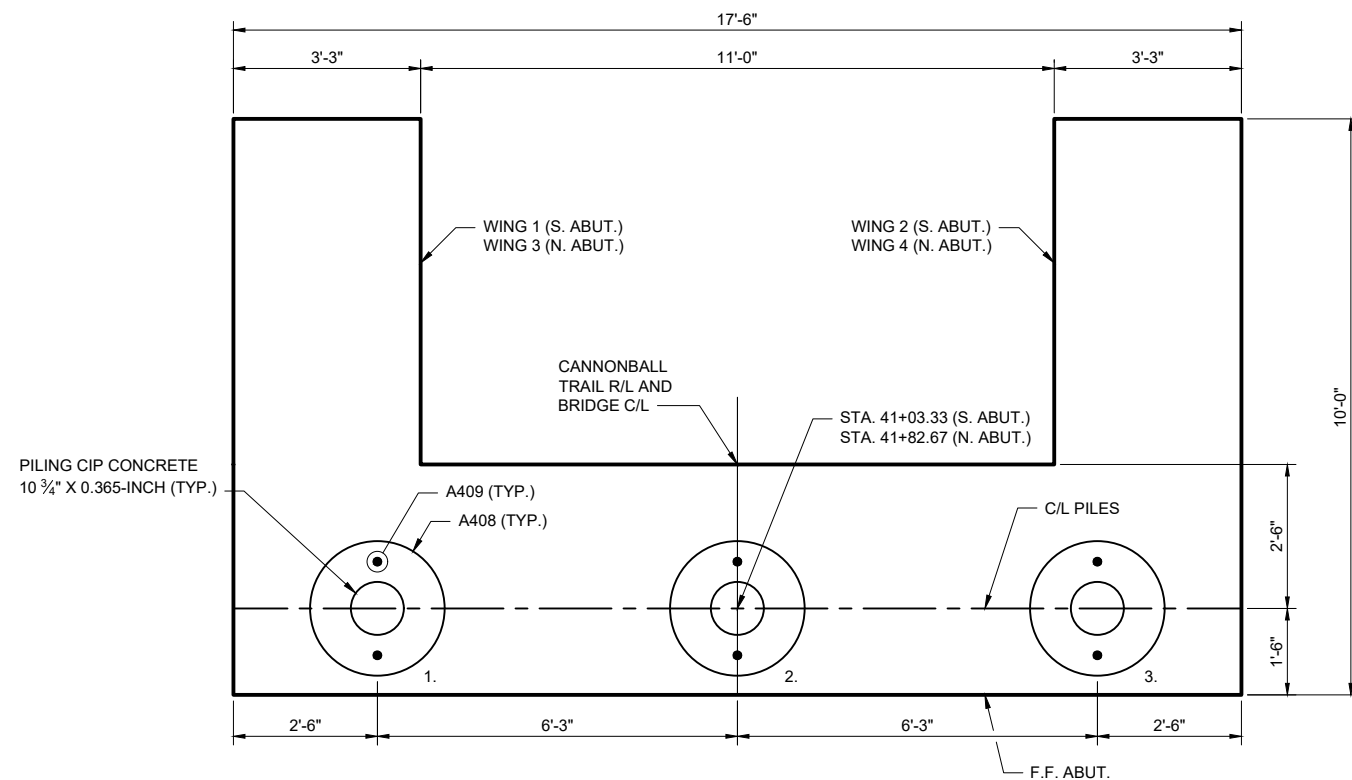
PROVIDE GROUNDING FOR THE BRIDGE AT EACH ABUTMENT. SEE "GROUNDING DETAIL" ON THIS SHEET. COST FOR GROUNDING THE BRIDGE IS INCIDENTAL TO "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-13-969 LRFD".

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	REFERENCE WISDOT BID ITEM NUMBER	BID ITEM	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
90001	206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-13-969	EACH	---	---	---	1
90002	210.1500	BACKFILL STRUCTURE TYPE A	TON	75	75	---	150
90003	502.0100	CONCRETE MASONRY BRIDGES	CY	25.5	25.5	---	51
90004	502.3101	EXPANSION DEVICE	LF	15	15	---	30
90005	502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	---	171	171
90006	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1700	1700	---	3400
90007	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	675	675	---	1350
90008	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	4	4	---	8
90009	550.2106	PILING CIP CONCRETE 10 3/4 X 0.365-INCH	LF	165	165	---	330
90010	606.0200	RIPRAP MEDIUM	CY	18	18	---	36
90011	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70	70	---	140
90012	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	11	11	---	22
90013	645.0120	GEOTEXTILE TYPE HR	SY	41	41	---	82
90014	506.8006.S	PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-13-969 LRFD	EACH	---	---	1	1
90015	---	STEEL PEDESTRIAN RAILING	LF	16	16	---	32
90016	---	CONCRETE PAVEMENT APPROACH SLABS	LS	---	---	---	1

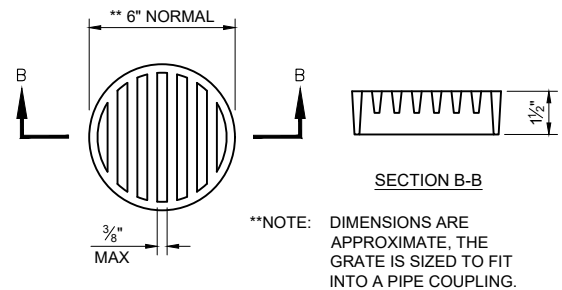


ABUTMENT PLAN



ABUTMENT FOUNDATION PLAN

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 OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10X1-INCH STAINLESS STEEL SHEET METAL SCREWS. ORIENT SHIELD SO SLOTS ARE VERTICAL.



RODENT SHIELD

GENERAL NOTES

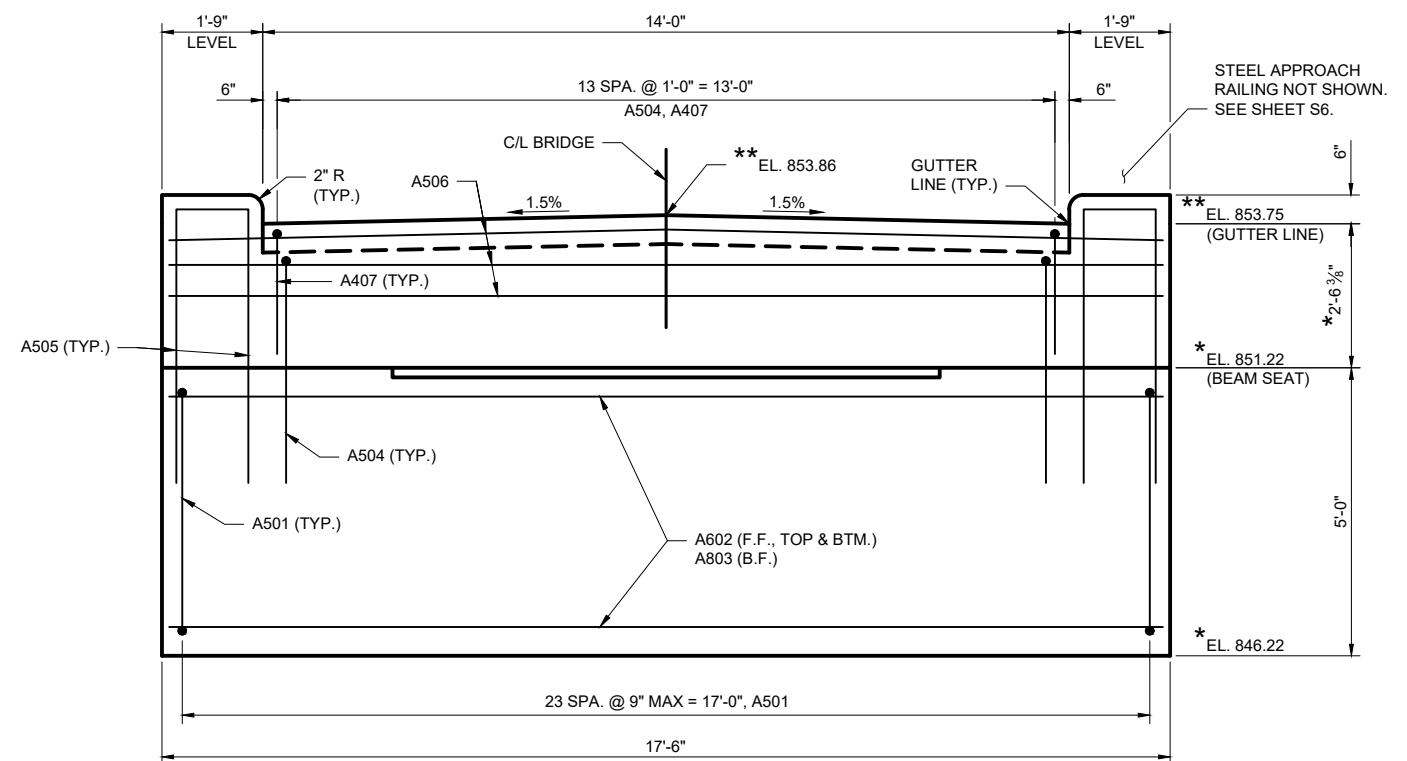
SEE SHEET S4 FOR REINFORCING DETAILS.

SEE SHEET S6 FOR STEEL APPROACH RAILING DETAILS.

ABUTMENT TO BE SUPPORTED ON PILING CAST-IN-PLACE CONCRETE 10 3/4-INCH WITH A REQUIRED DRIVING RESISTANCE OF 115 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED PILE LENGTH IS 55 FEET AT THE SOUTH ABUTMENT AND 55 FEET AT THE NORTH ABUTMENT.

LEGEND

- * DIMENSION OR ELEVATION TO BE VERIFIED OR SUPPLIED BY BRIDGE MANUFACTURER.
- PIPE UNDERDRAIN 6" WRAPPED. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF UNDERDRAIN. SEE RODENT SHIELD DETAIL ON THIS SHEET.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- ** ELEVATION GIVEN AT F.F. OF ABUTMENT BACKWALL.
- ASTM F1554 GRADE 36 GALVANIZED ANCHOR BOLT WITH (2) NUTS AND (1) WASHER EACH END. EMBED INTO CONCRETE 2'-0". BOLT DIAMETER AND PROJECTION HEIGHT BY BRIDGE MANUFACTURER. COST IS INCIDENTAL TO "CONCRETE MASONRY BRIDGES" BID ITEM.



ABUTMENT ELEVATION

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Scale:	S3

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MADISON, WI
7431
CONTRACT NO:

ABUTMENT PLAN
CANNONBALL PATH: PHASE 6
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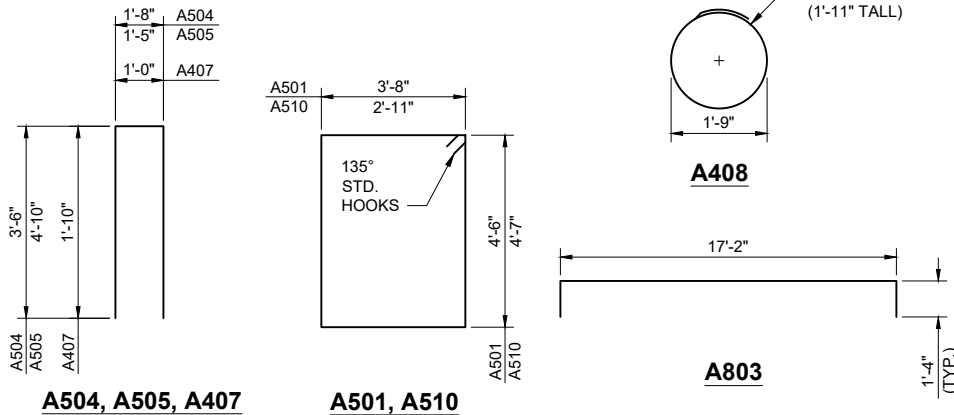


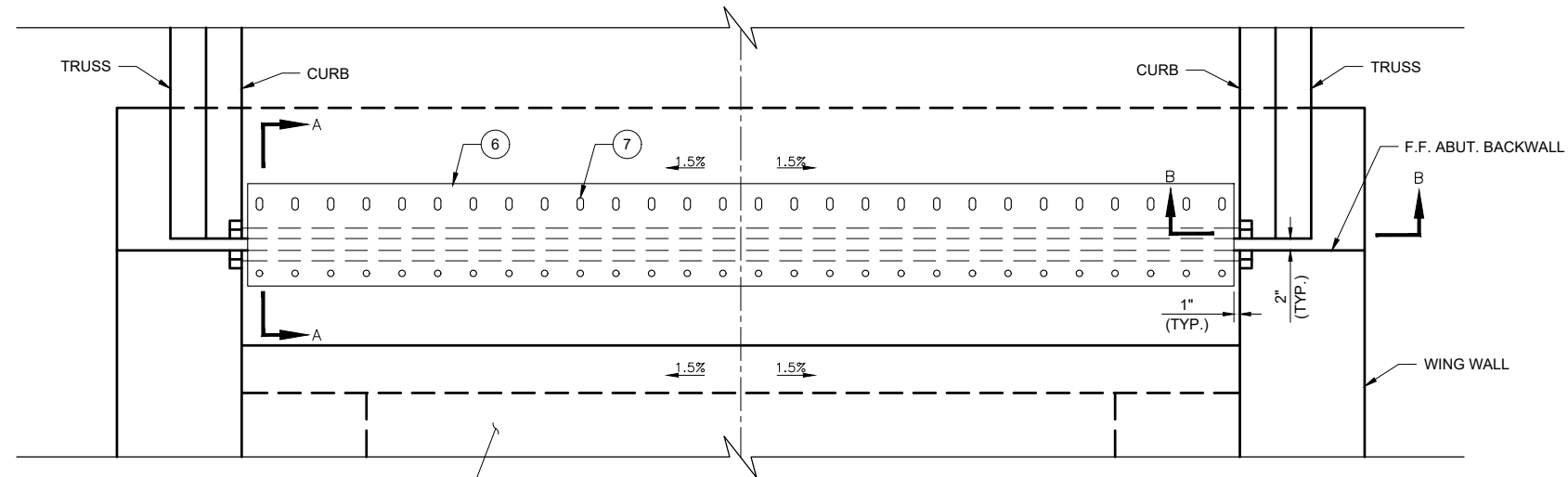
BAR MARK	NO. REQ'D S. ABUT.	NO. REQ'D N. ABUT.	LENGTH	BENT	COAT	LOCATION
A501	24	24	17'-0"	X		LOWER BODY - VERT.
A602	11	11	17'-2"			LOWER BODY - HORIZ. - BOT., TOP, F.F.
A803	7	7	19'-5"	X		LOWER BODY - HORIZ. - B.F.
A504	14	14	8'-5"	X	X	UPPER BODY - VERT.
A505	22	22	10'-10"	X	X	UPPER BODY - VERT. - WINGS
A506	8	8	17'-2"		X	UPPER BODY - HORIZ.
A407	14	14	4'-6"	X	X	UPPER BODY - VERT.
A408	3	3	28'-0"	X		LOWER BODY - PILES
A409	6	6	2'-3"			LOWER BODY - PILES
A510	14	14	15'-8"	X		LOWER WINGS - VERT.
A611	16	16	9'-8"			LOWER WINGS - HORIZ. - B.F., TOP
A512	10	10	9'-8"			LOWER WINGS - HORIZ. - F.F.
A413	14	14	7'-8"		X	UPPER WINGS - HORIZ. - F.F., B.F.
A614	4	4	7'-8"		X	UPPER WINGS - HORIZ. - TOP

△ KEYED CONSTRUCTION JOINT FORMED BY A BEVELED 2"x6".

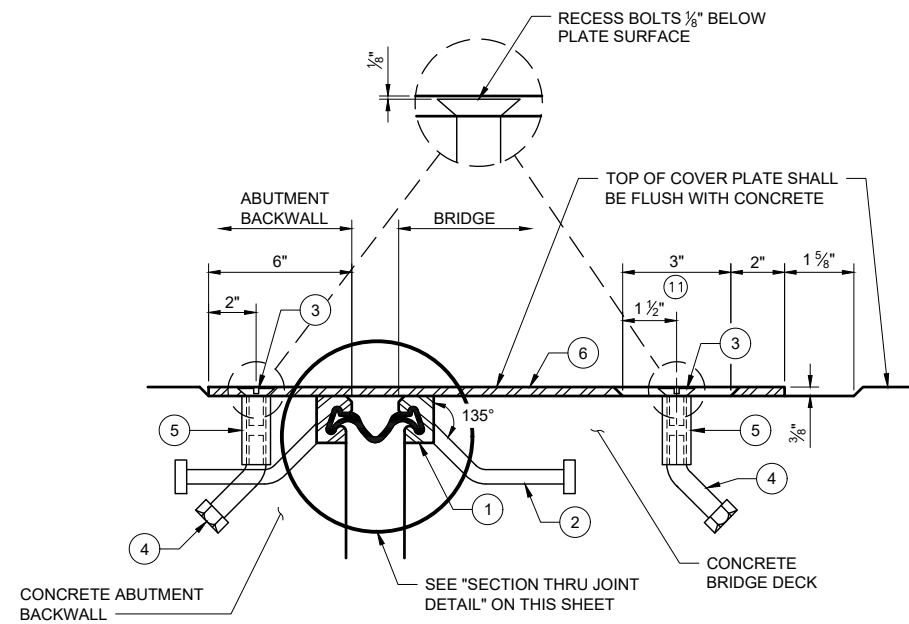
○ PIPE UNDERDRAIN 6" WRAPPED. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF UNDERDRAIN. SEE RODENT SHIELD DETAIL ON SHEET S3.

■ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.

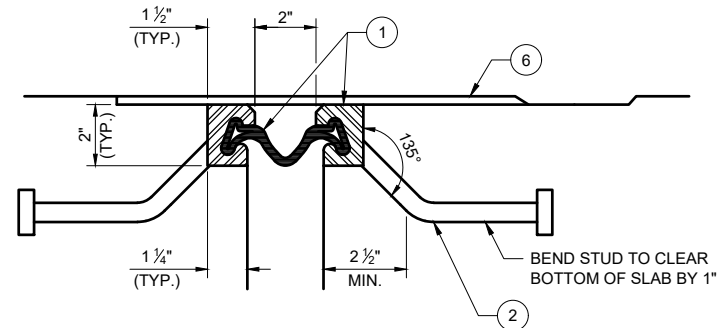




TYPICAL PLAN



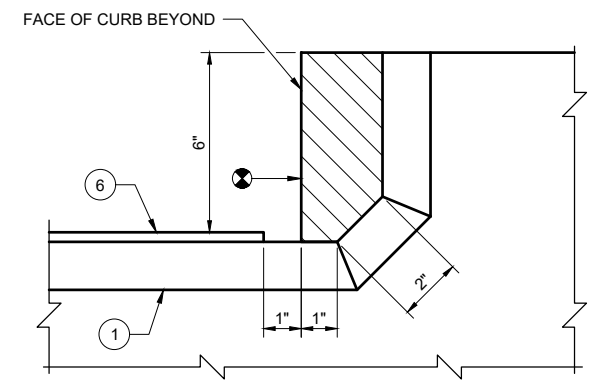
**SECTION A-A
THRU JOINT**



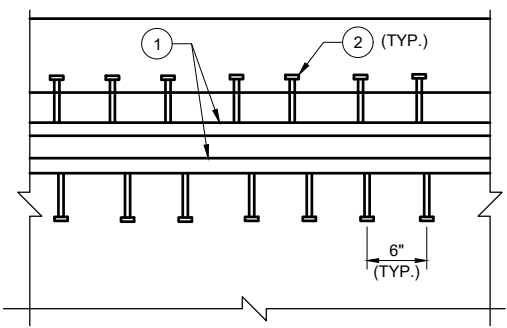
SECTION THRU JOINT DETAIL

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

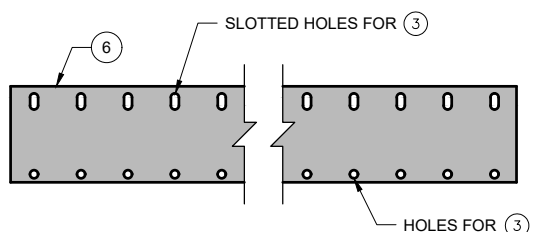
STRIP SEAL EXPANSION JOINT AND COVER PLATE DETAILS



**SECTION B-B
THRU JOINT AT CURB**



**PART PLAN
(COVER PLATES NOT SHOWN)**



**PLAN OF COVER PLATE WITH
SLIP-RESISTANT SURFACE**

PLACE SLIP-RESISTANT SURFACE ON TOP OF WALKING SURFACE IN SHADED AREA.

LEGEND

- ① NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS.
- ② STUDS 5/8" DIA. x 6 3/8" LONG AT 6" CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- ③ 3/4" DIA. x 1 1/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS 1/8" BELOW PLATE SURFACE.
- ④ 3/4" DIA. x 4" GALVANIZED HEX. HEAD BOLT. AT ABUTMENT BACKWALL, BEND 45°. AT BRIDGE DECK, BEND TO CLEAR BOTTOM OF SLAB BY 1".
- ⑤ 3/4" DIA. x 2 1/4" GALVANIZED THREADED COUPLING.
- ⑥ GALVANIZED PLATE 3/8" x 1'-4" x 13'-10", WITH HOLES FOR NO. 3.
- ⑦ 1" x 3" SLOTTED COUNTERSUNK HOLE FOR NO. 3. SLOT PARALLEL TO DIRECTION OF MOVEMENT.
- ⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

GENERAL NOTES

NO FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE SHALL BE APPLIED PRIOR TO GALVANIZING.

ANCHOR SYSTEM NO. 4 AND NO. 5 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

THE EXPANSION DEVICE MANUFACTURER SHALL PROVIDE A MECHANISM TO SUPPORT THE JOINT IN PLACE DURING THE CONCRETE POUR.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LINEAR FOOT UNIT PRICE BID FOR "EXPANSION DEVICES".

PLACE SLIP RESISTANT SURFACE ON TOP WALKING SURFACE OF COVER PLATE. SEE DETAIL THIS SHEET.

JOINT MANUFACTURER SHALL PROVIDE JOINT DETAILS TO THE STEEL BRIDGE DESIGNER/FABRICATOR.

STRUCTURE DETAILS

CANNONBALL PATH: PHASE 6

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MADISON, WI

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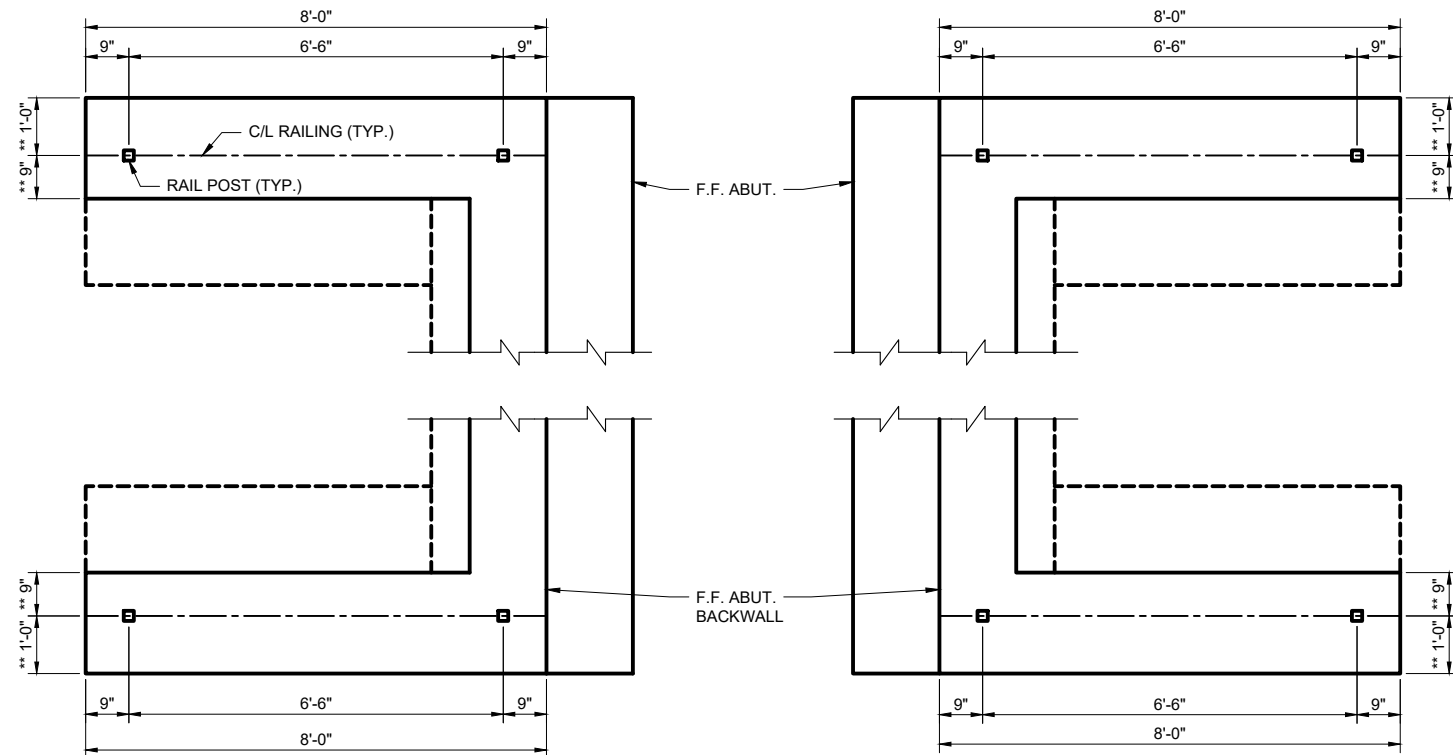
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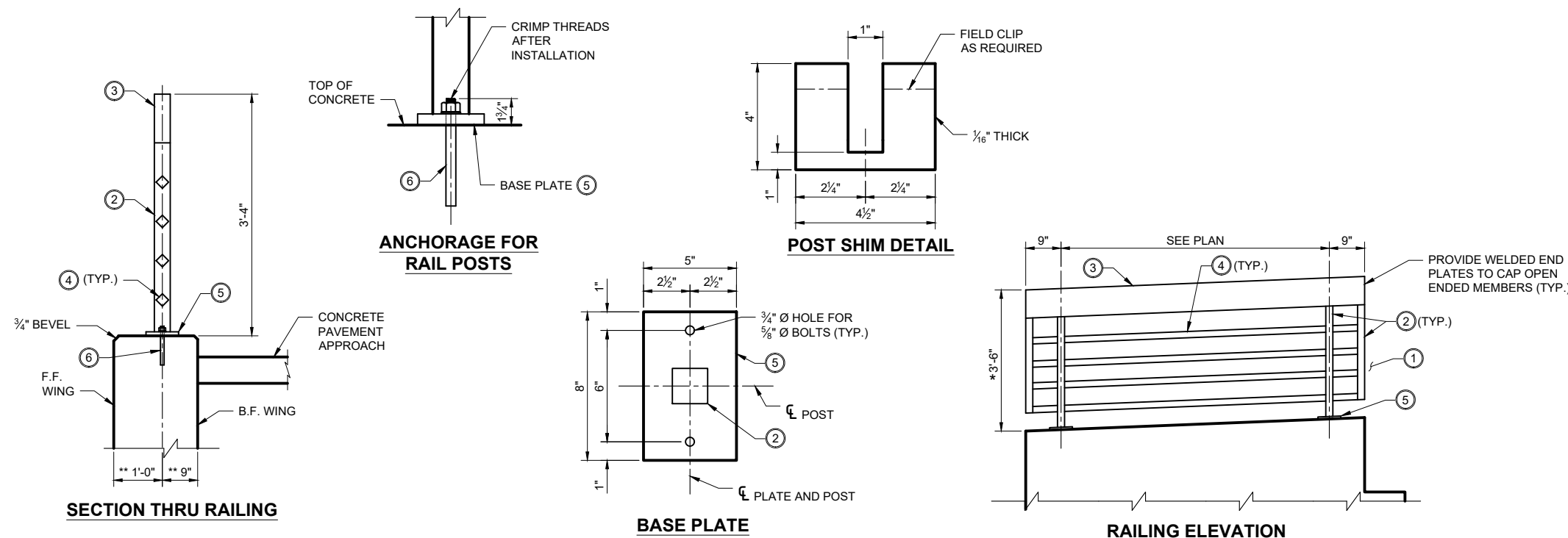
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SOUTH ABUTMENT

NORTH ABUTMENT

RAILING POST SPACING PLAN



SECTION THRU RAILING

**ANCHORAGE FOR
RAIL POSTS**

POST SHIM DETAIL

BASE PLATE

RAILING ELEVATION

LEGEND

- 1 PROVIDE 4" MAX. GAP BETWEEN BRIDGE TRUSS AND ABUTMENT RAILING END
 - 2 HSS 2"x2"x 1/4" STEEL POST. CUT BOTTOM OF POST TO MATCH TOP OF CONCRETE. PLACE POST VERTICAL.
 - 3 HSS 8"x2"x 1/4" STEEL TOP RAIL. WELD TO NO. 2.
 - 4 HSS 1 1/4"x1 1/4"x 3/16" STEEL INTERMEDIATE RAIL. WELD TO NO. 2. SPACE EVENLY AND ALIGN WITH PREFABRICATED BRIDGE INTERMEDIATE RAILS.
 - 5 PLATE 3/4"x5"x8" WITH 3/4"Ø HOLES FOR ANCHOR BOLTS NO. 7. WELD TO NO. 2 AS SHOWN.
 - 6 3/8" DIA. x 9" LONG 316 STAINLESS STEEL ADHESIVE ANCHORS WITH NUT AND WASHERS OF SAME ALLOY GROUP. EMBED MIN. 7".
- * ALIGN BOTTOM RAIL, RUB RAIL, AND SAFETY RAILS WITH SIMILAR FABRICATED BRIDGE RAILING ELEMENTS.
- ** ALIGN INSIDE FACE OF ABUTMENT RAILING WITH INSIDE FACE OF BRIDGE TRUSS.

GENERAL NOTES

BID ITEM SHALL BE "STEEL PEDESTRIAN RAILING" WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN AS WELL AS CAULKING AND PAINTING.

ALL MATERIAL (EXCEPT NO. 7) 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. THE RAILING SHALL BE PAINTED AMS STD. COLOR NO. 27038 (BLACK)..

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 CUT.

STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQUIRED FOR ALIGNMENT AND SHALL BE GALVANIZED.

SPACING OF TOP RAIL AND INTERMEDIATE RAILS SHALL PRODUCE MAXIMUM OPENINGS OF LESS THAN 4".

NO. 2, 3, AND 4 STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B. NO. 6 SHALL CONFORM TO ASTM A709 GRADE 36.

CUT BOTTOM OF POSTS TO MAKE THEM VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

CAULK AROUND PERIMETER OF BASE PLATES, NO. 5, AND FILL BOLT HOLE OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING BLACK NON-BITUMINOUS JOINT SEALER.

RAILING SHALL BE FABRICATED IN FULL LENGTHS SUCH THAT NO FIELD SPLICING IS REQUIRED.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE. HOLES SHALL BE DRILLED IN BOTTOM OF RAIL MEMBERS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE CITY AT NO ADDITIONAL COST.

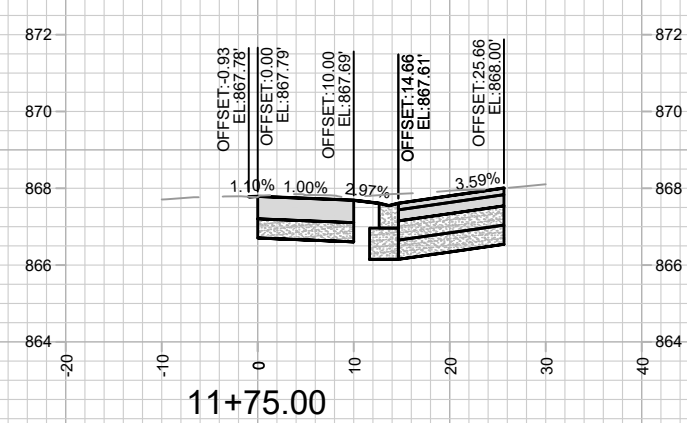
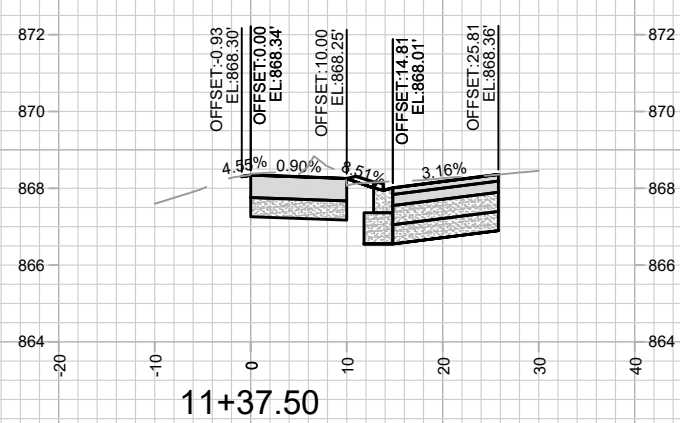
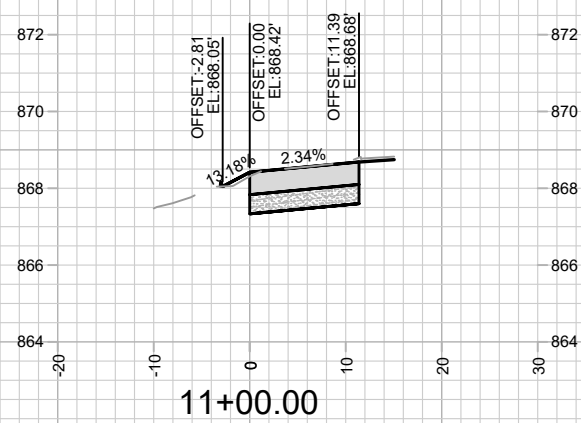
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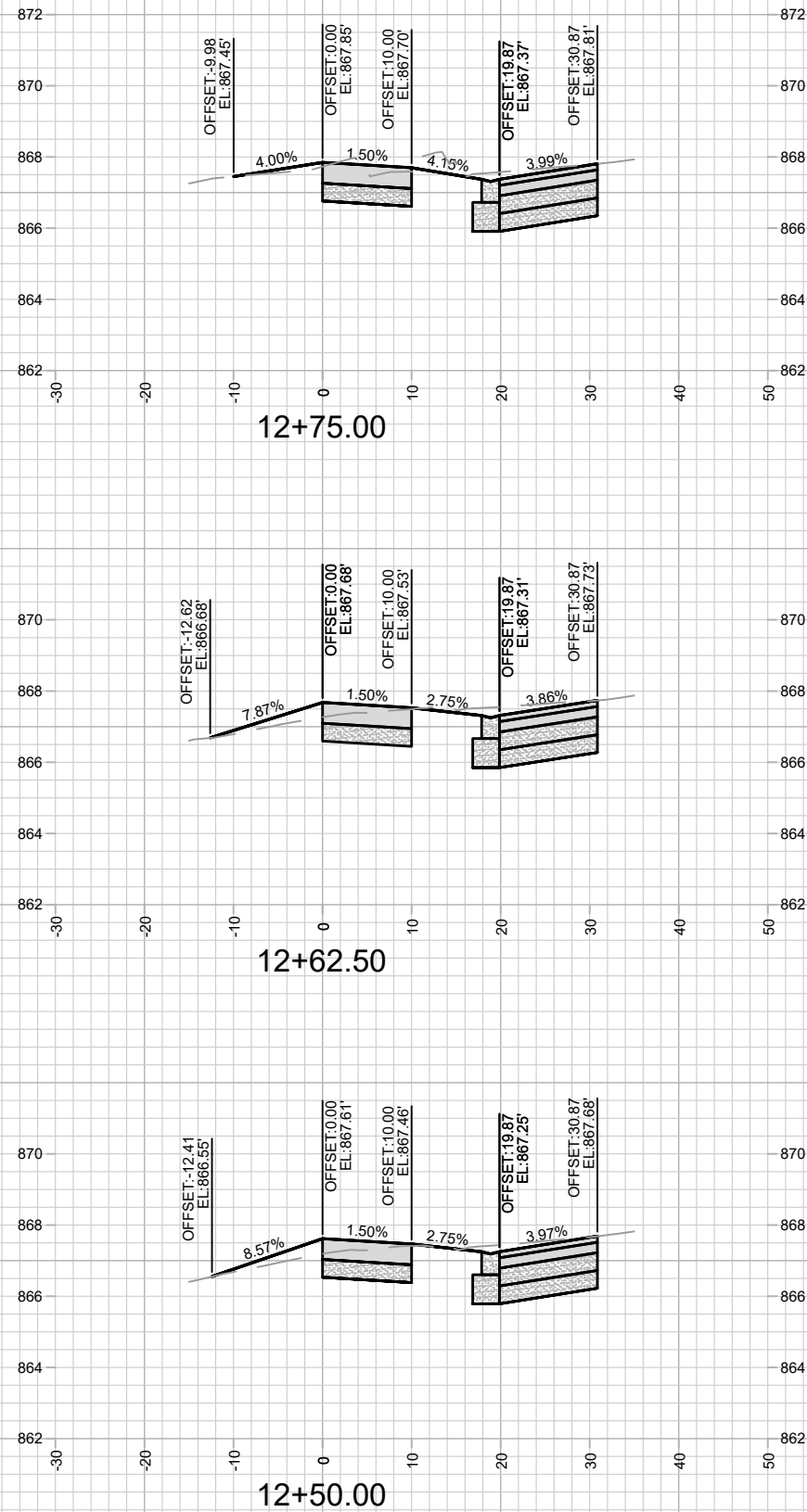
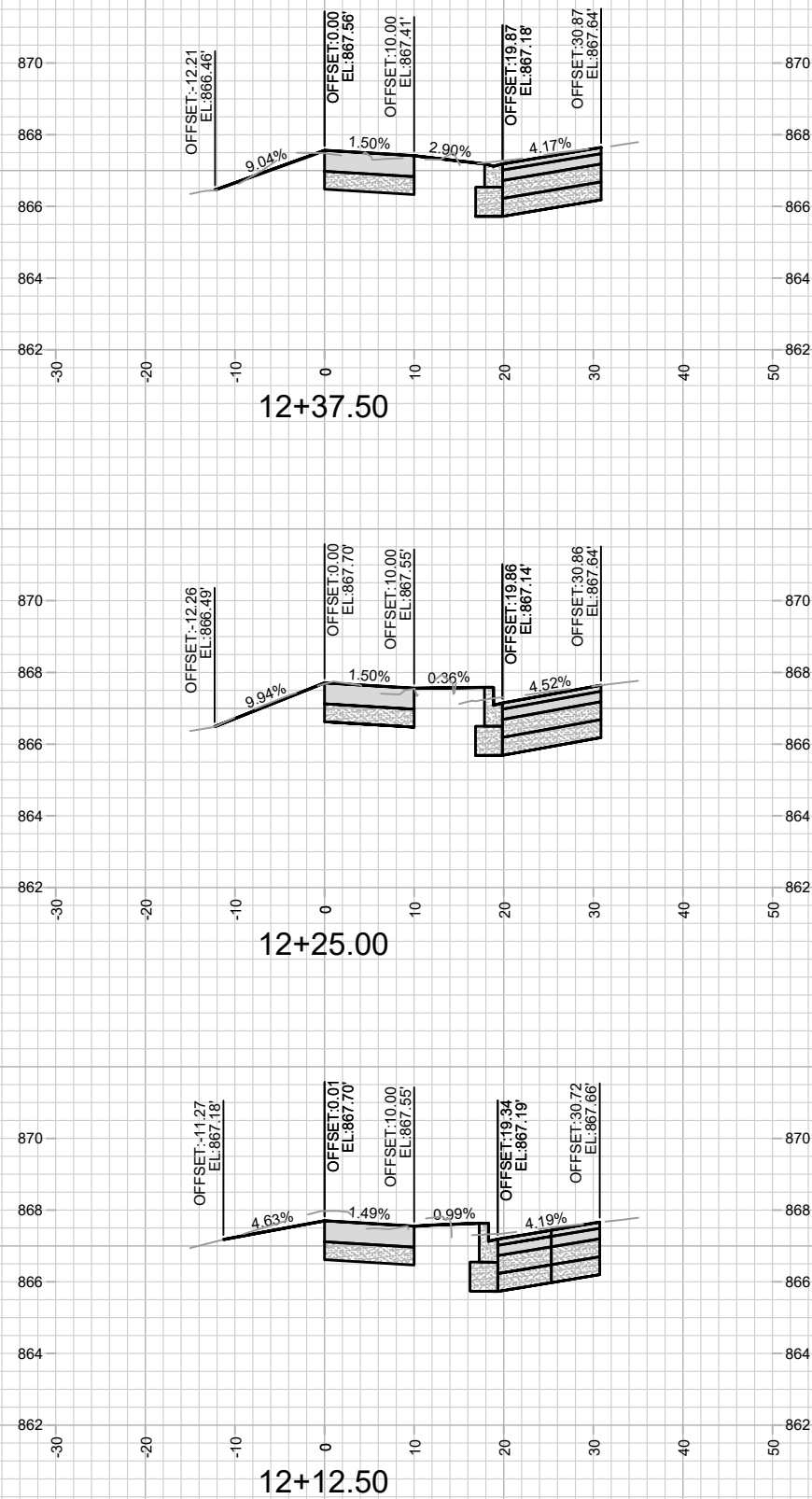
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7431
CONTRACT NO:

STEEL APPROACH RAILING DETAILS
CANNONBALL PATH: PHASE 6
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S6



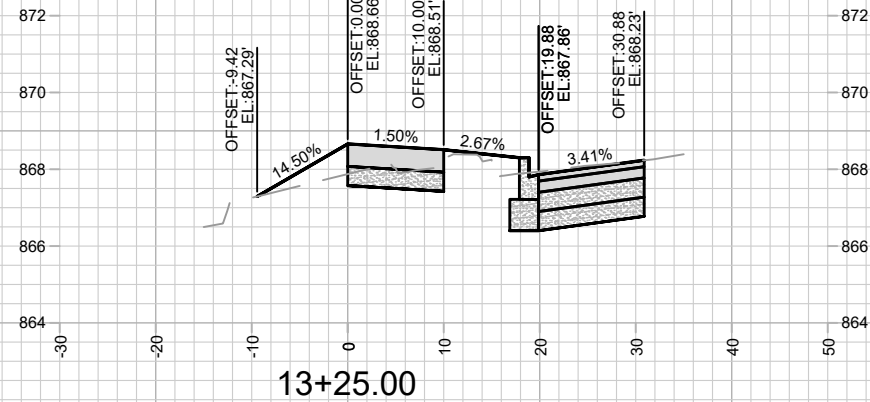
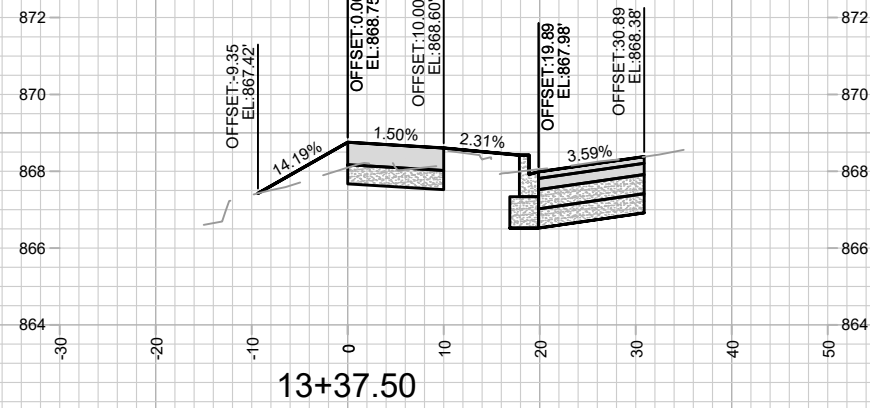
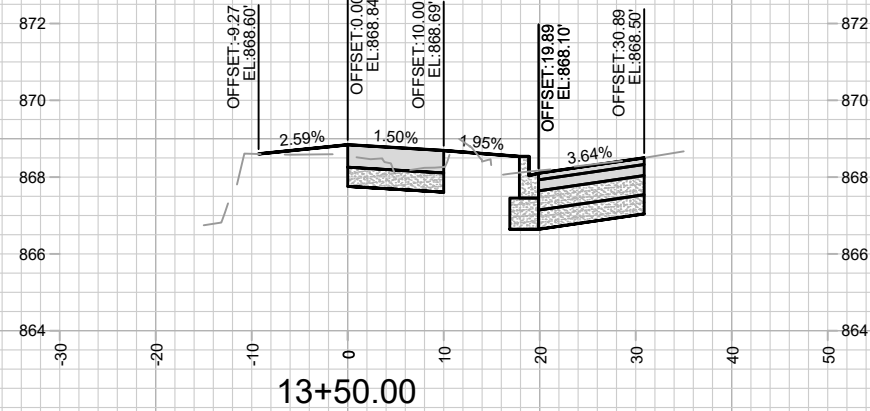
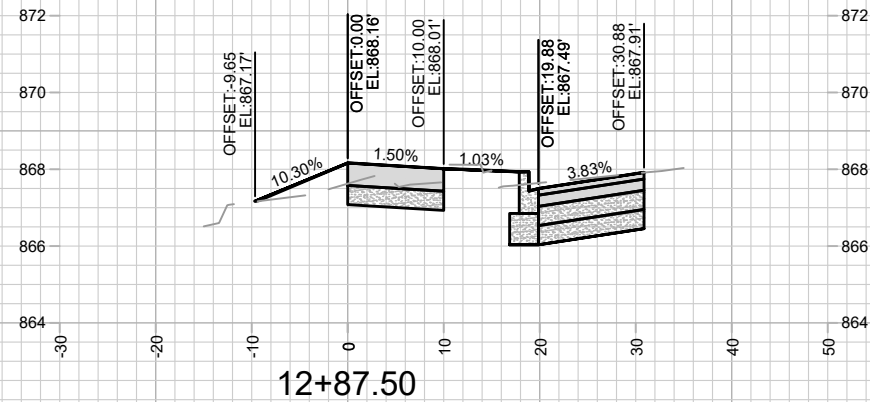
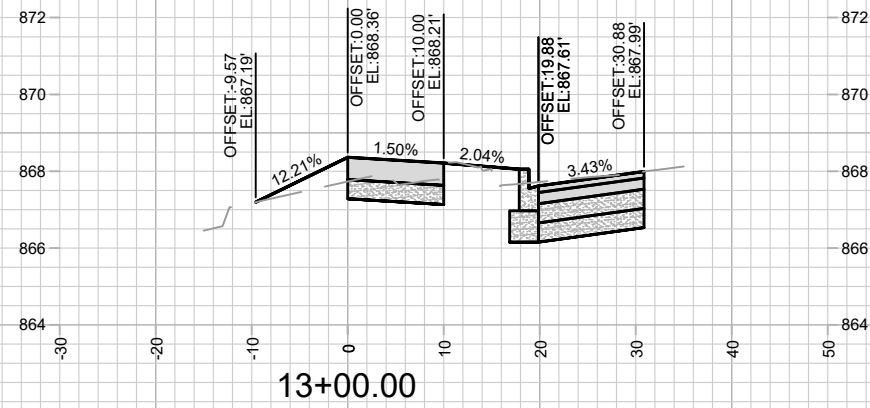
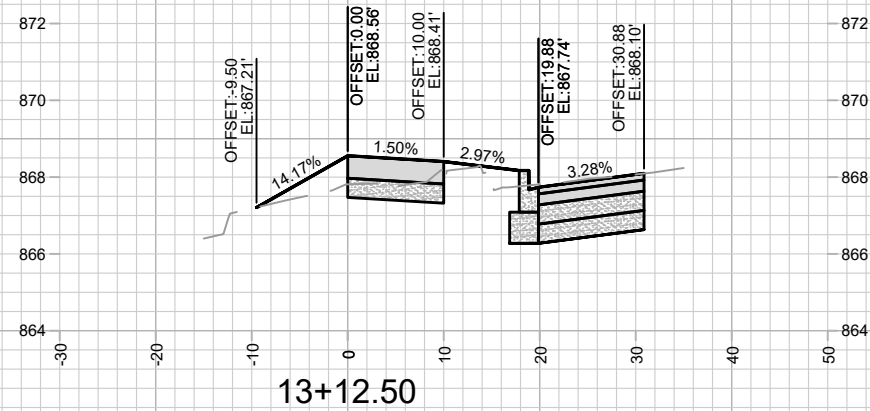


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CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

10153
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7431
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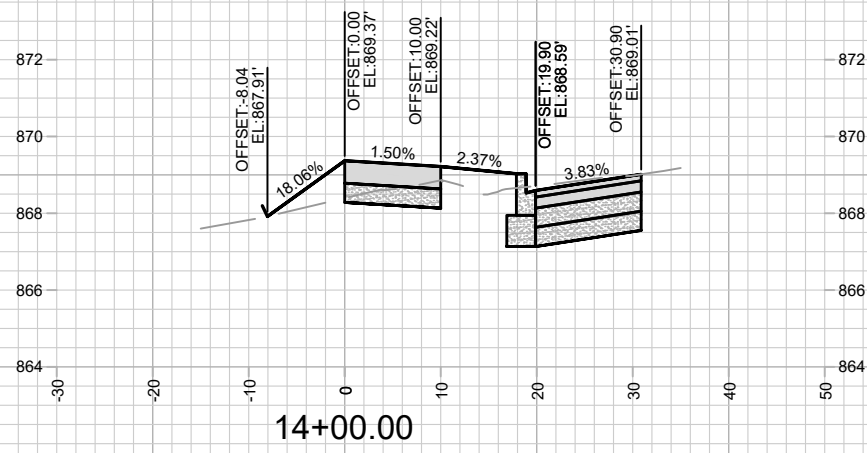
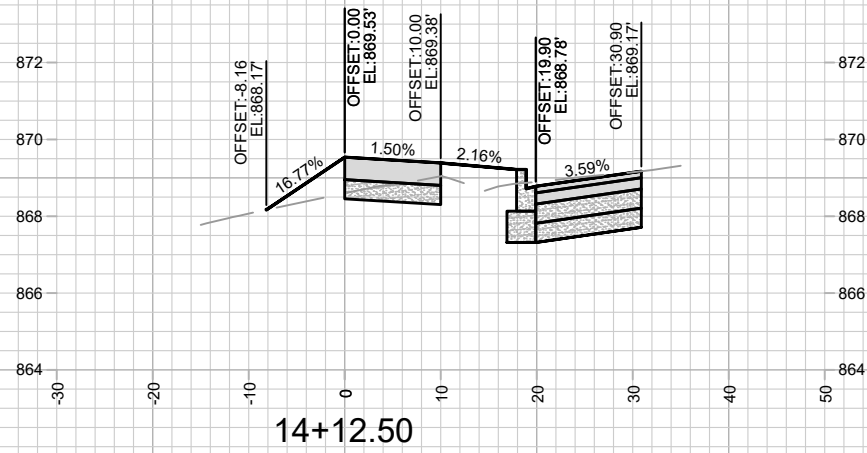
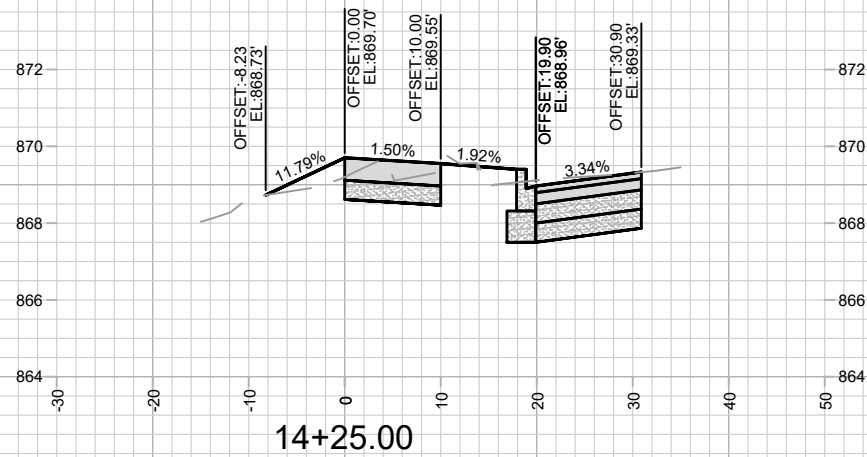
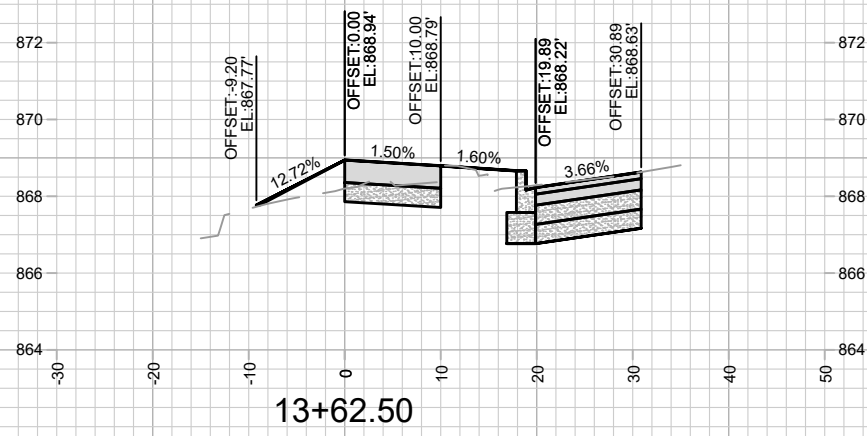
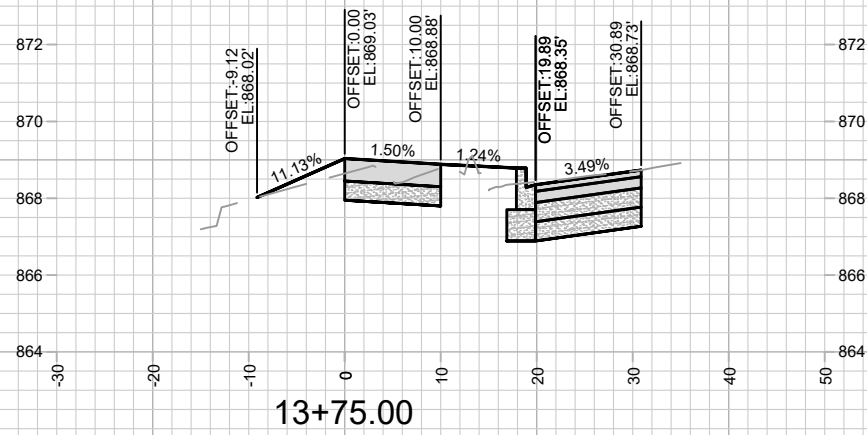
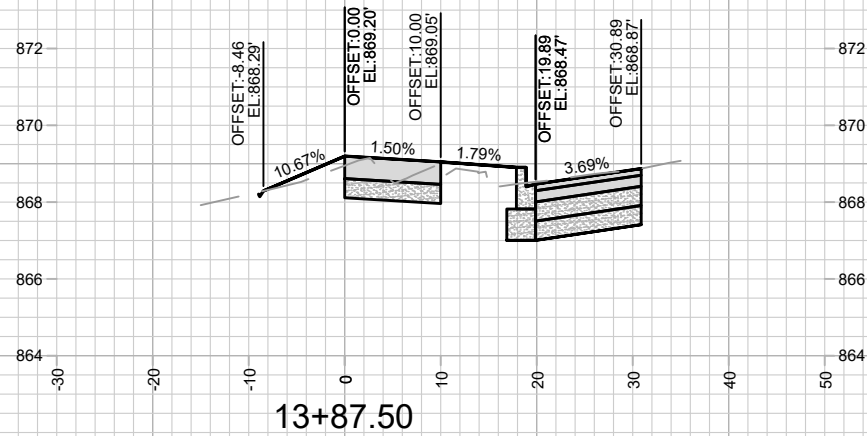
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CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

10153
MADISON, WI
7431

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CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

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MADISON, WI
7431

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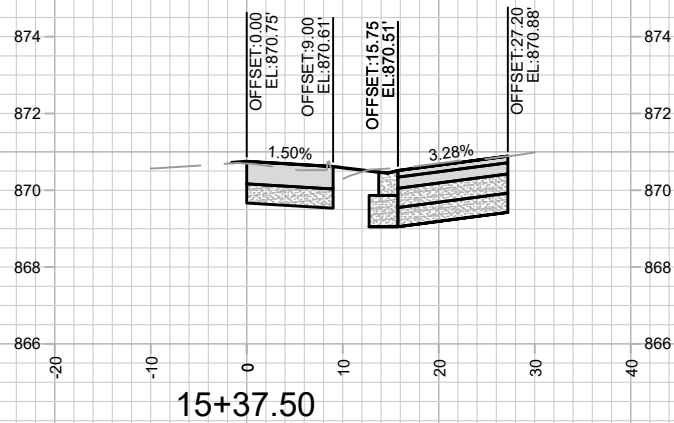
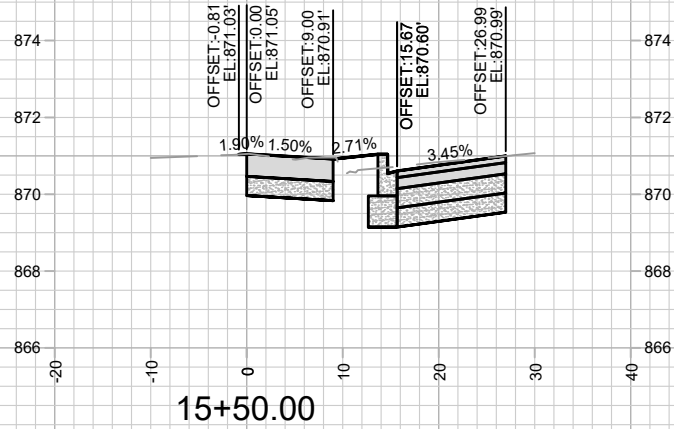
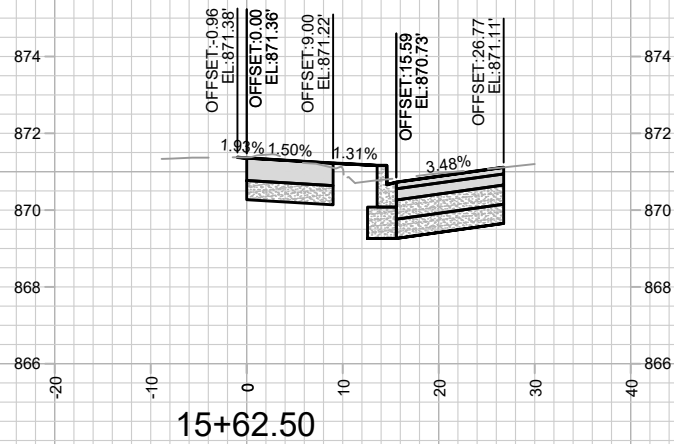
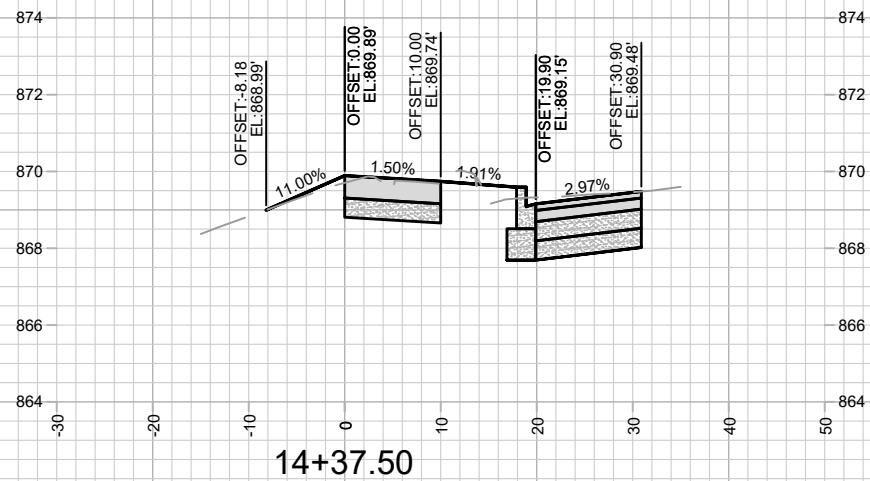
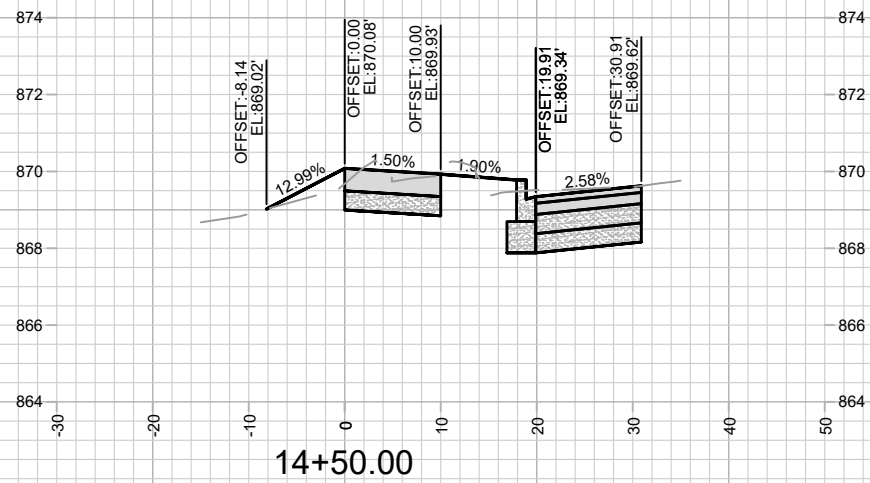
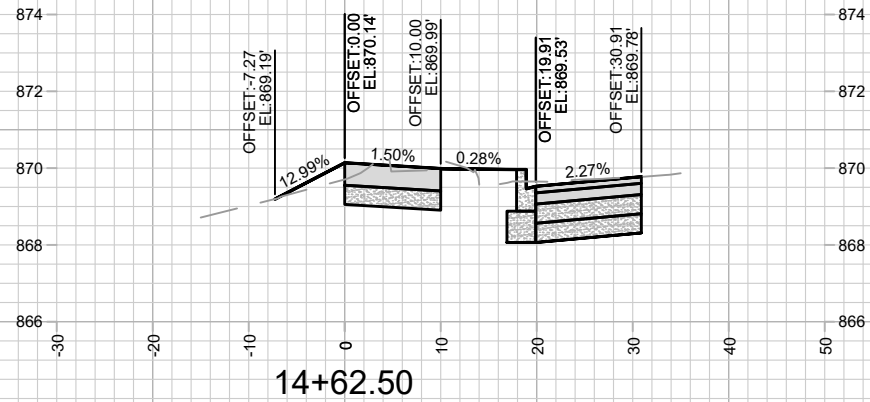
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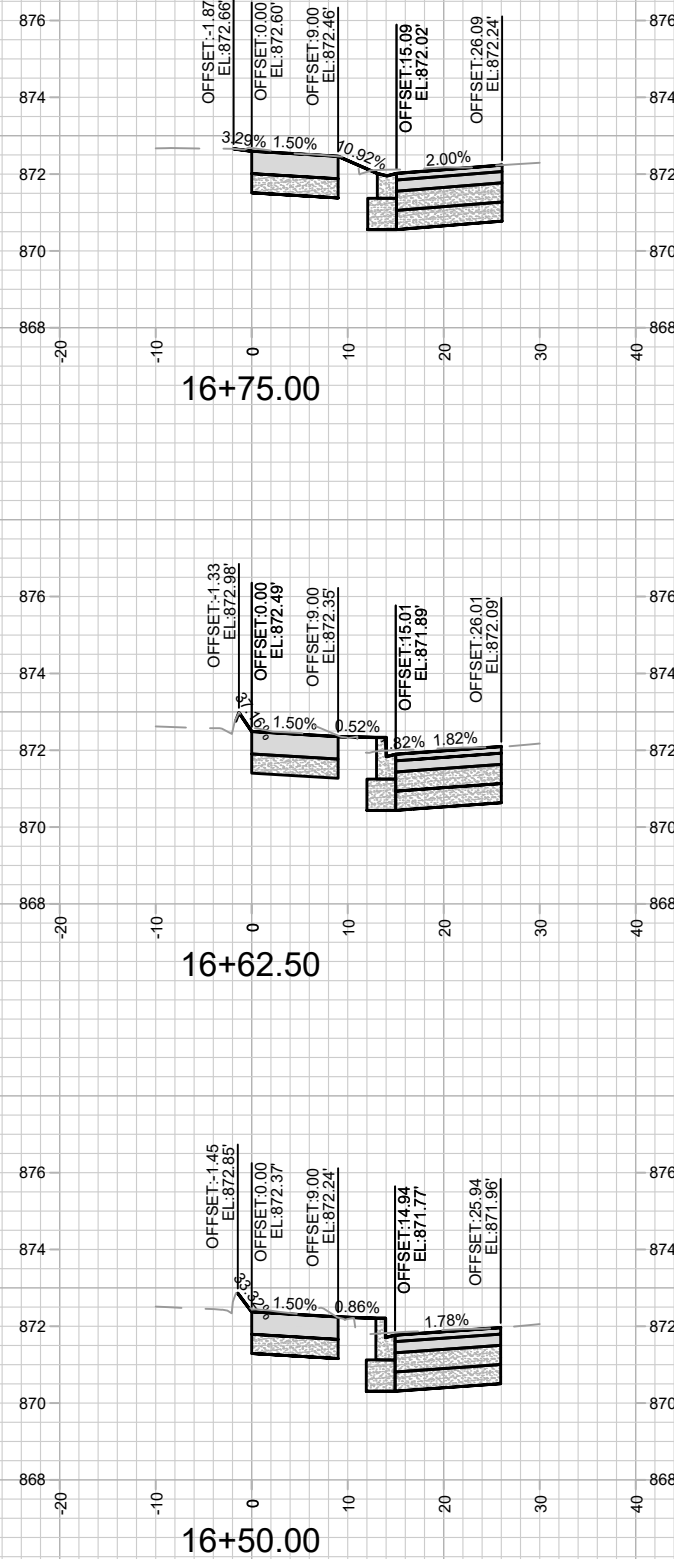
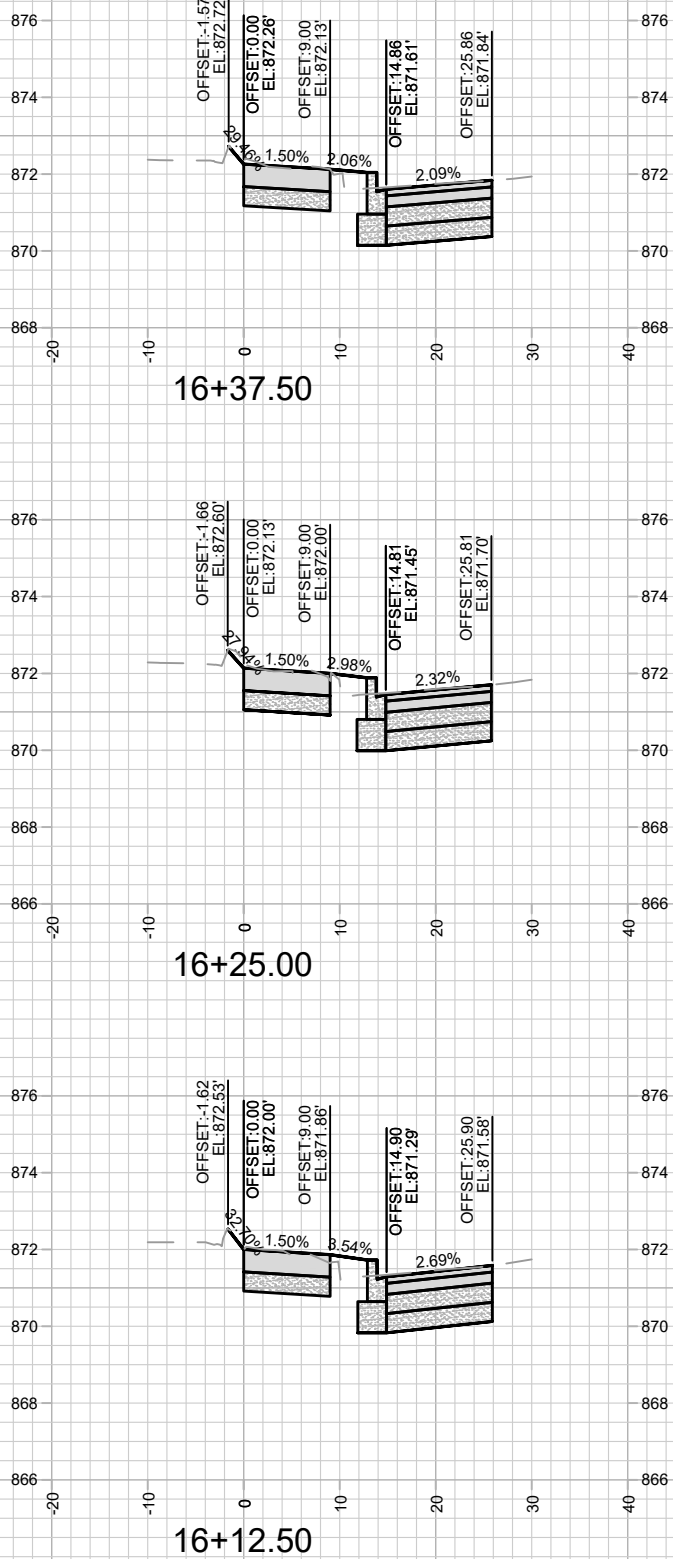
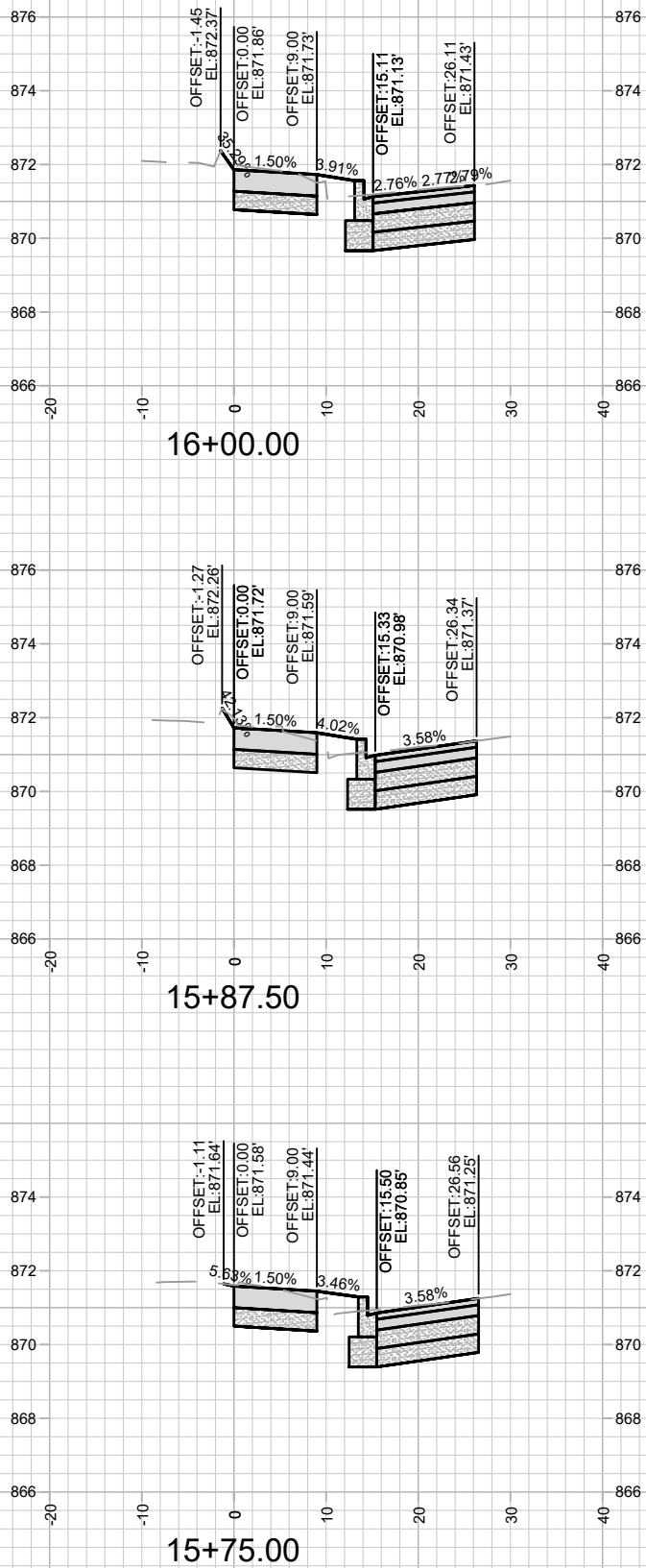
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10153
X-6

CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

10153
MADISON, WI
7431

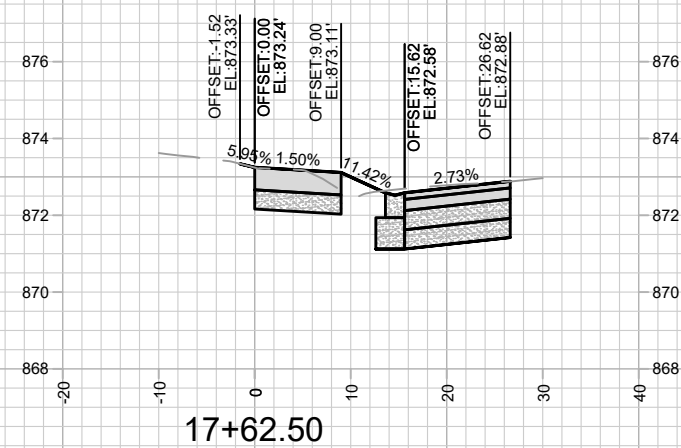
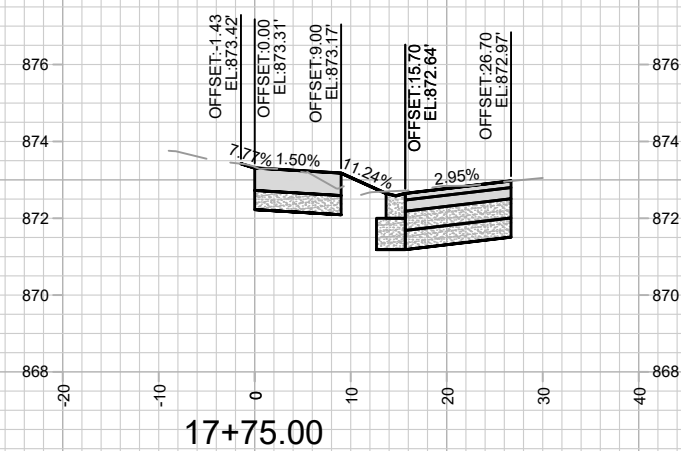
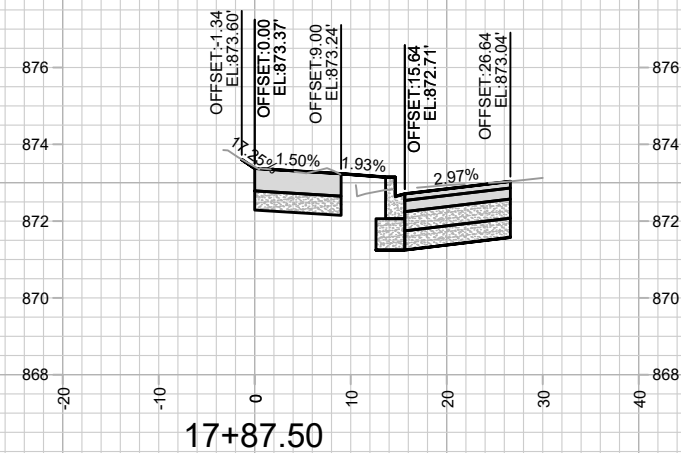
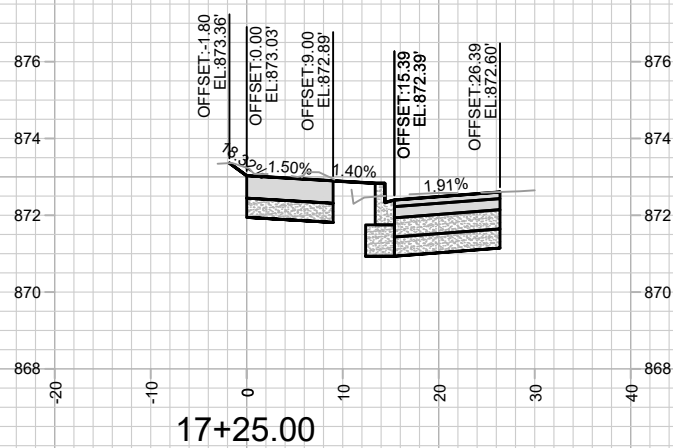
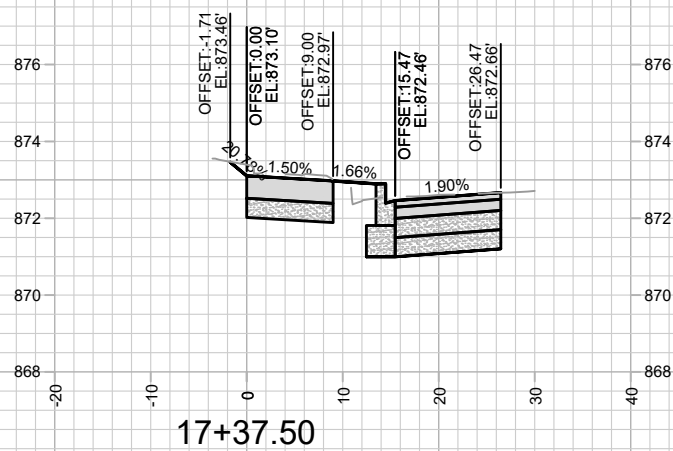
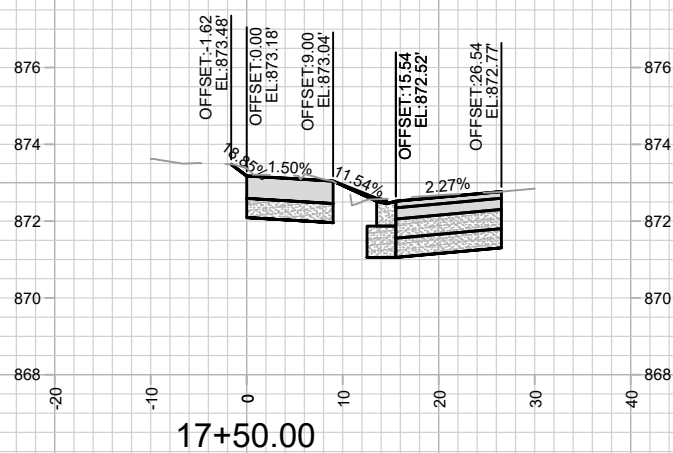
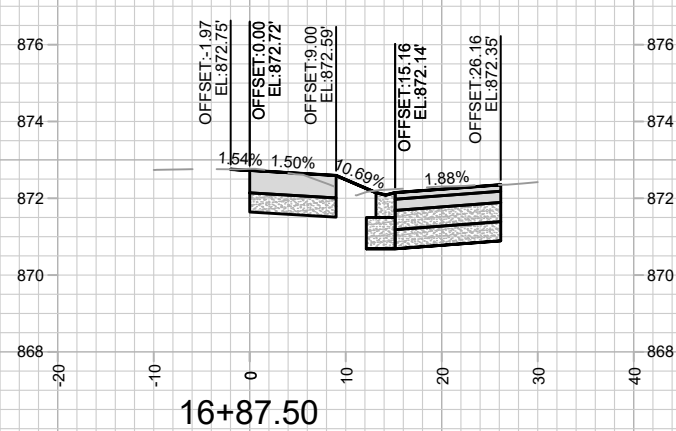
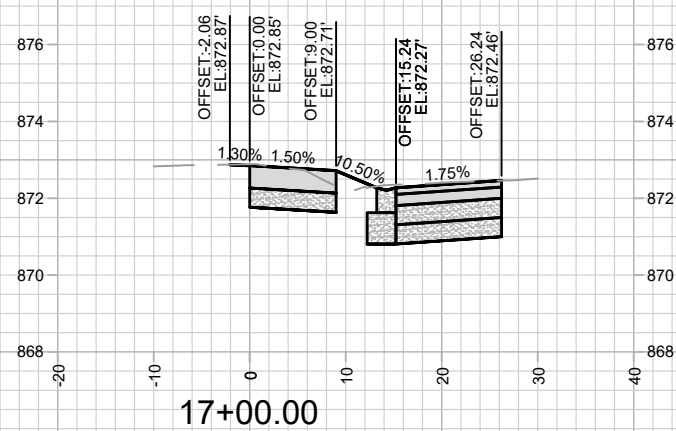
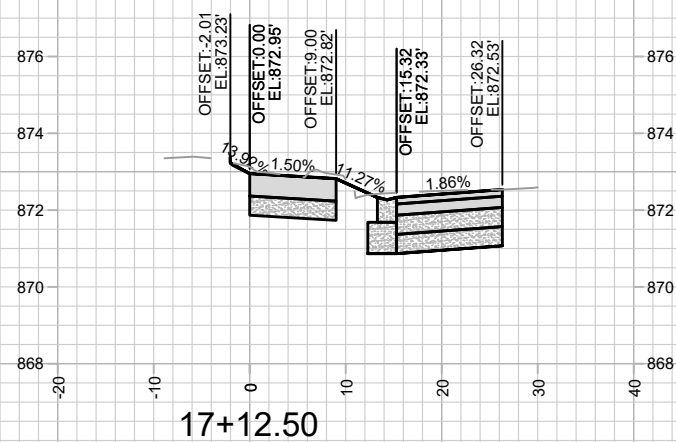
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10153

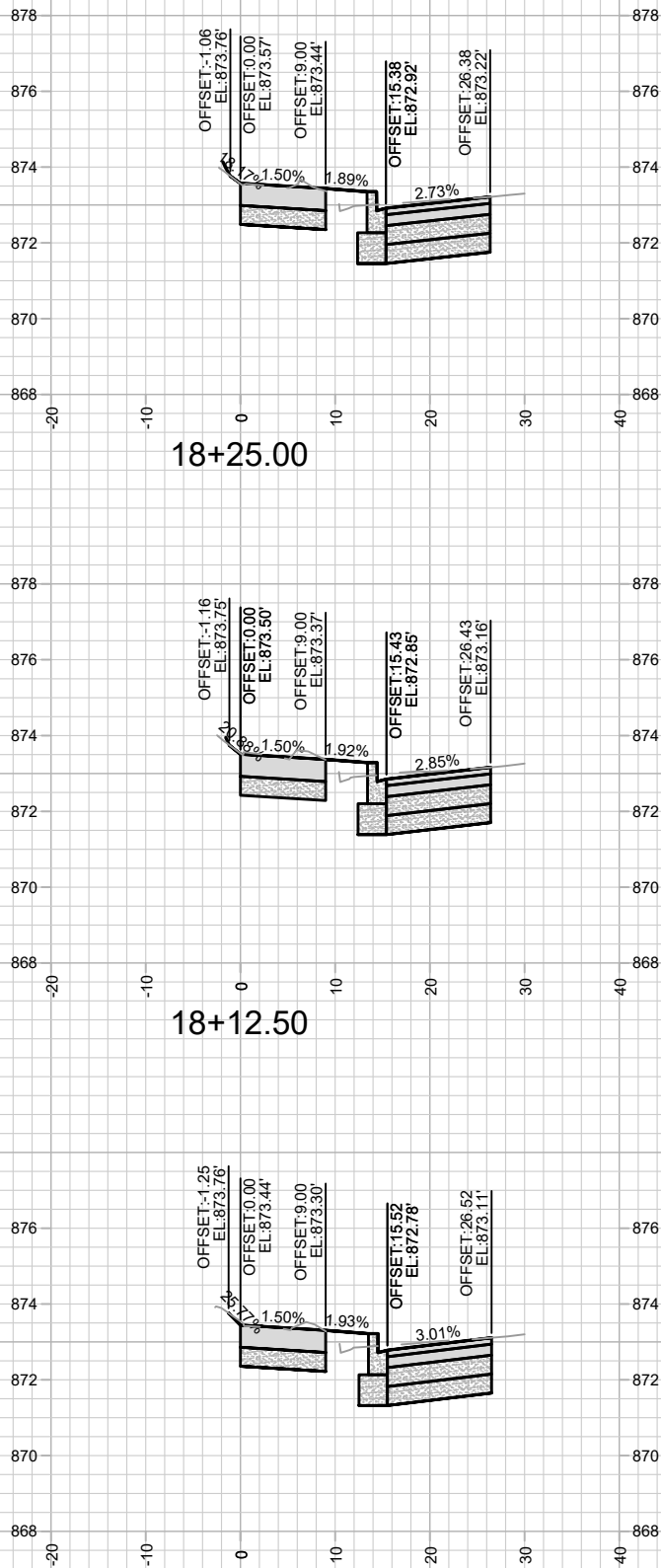
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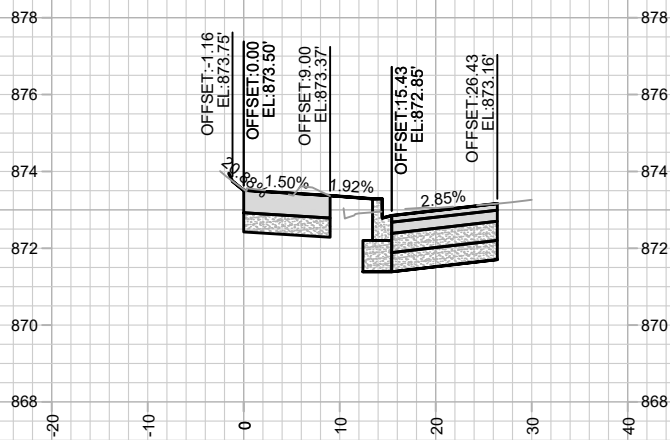
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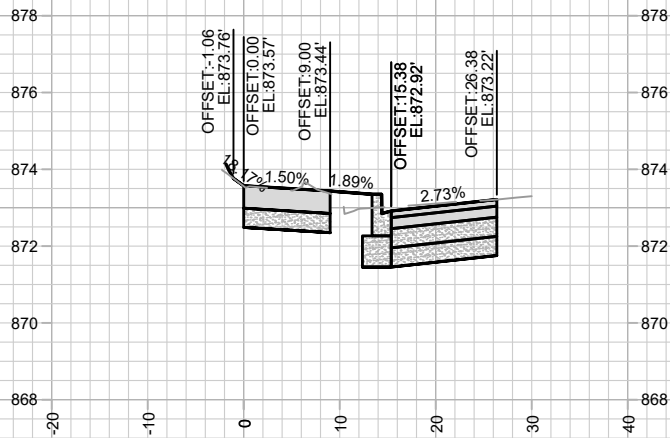
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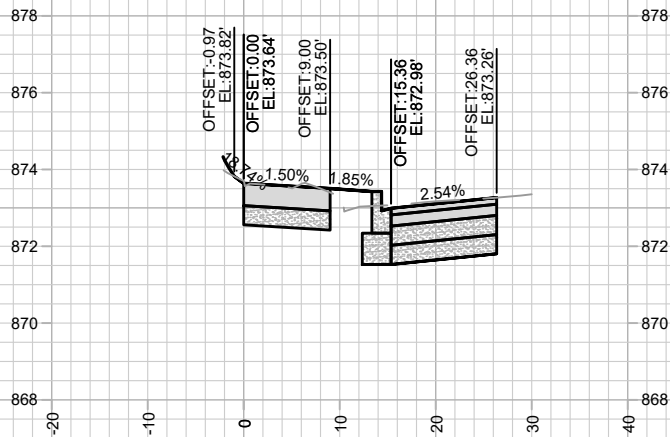
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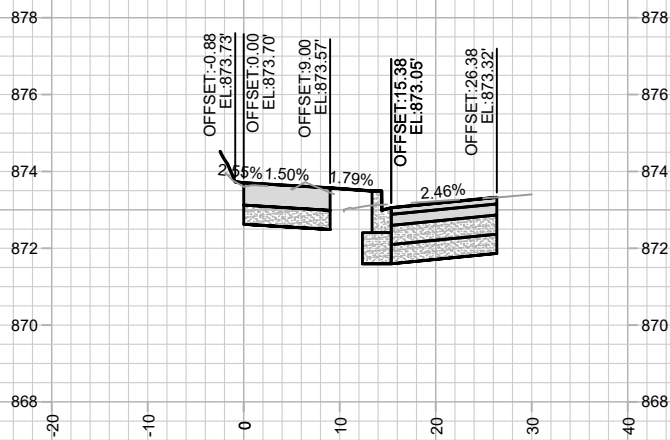
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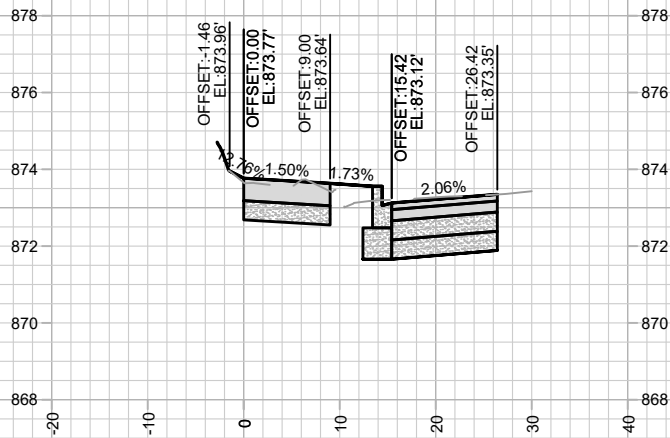
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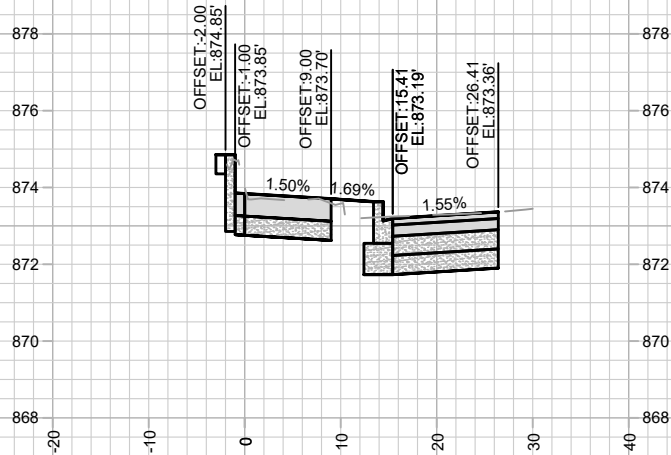
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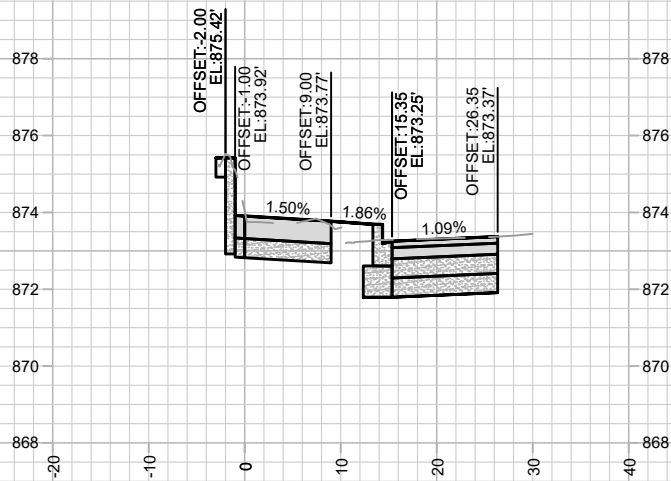
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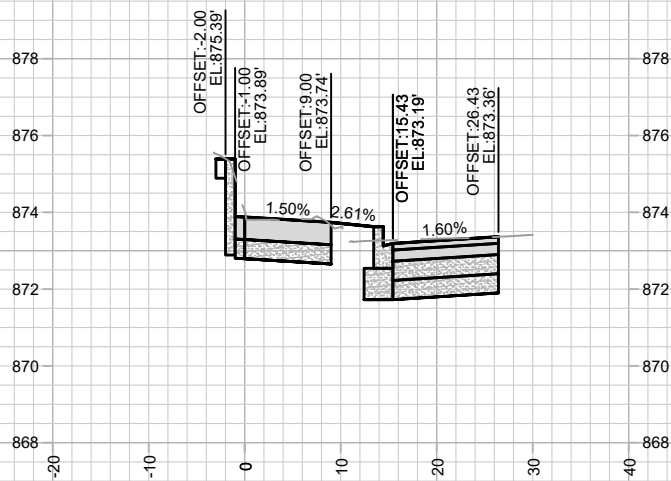
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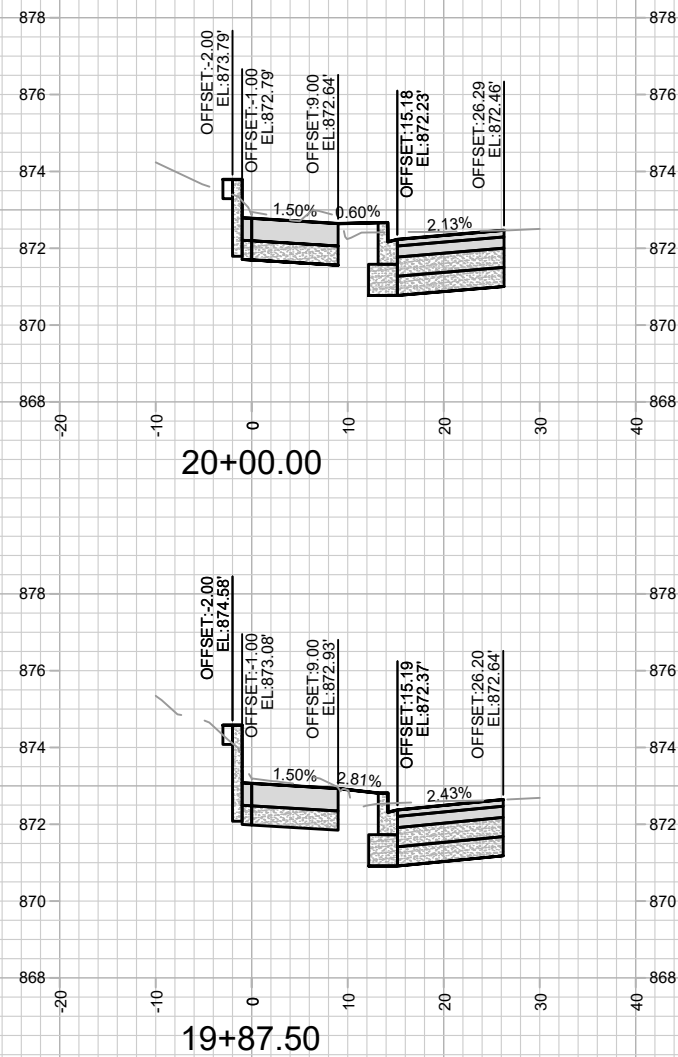
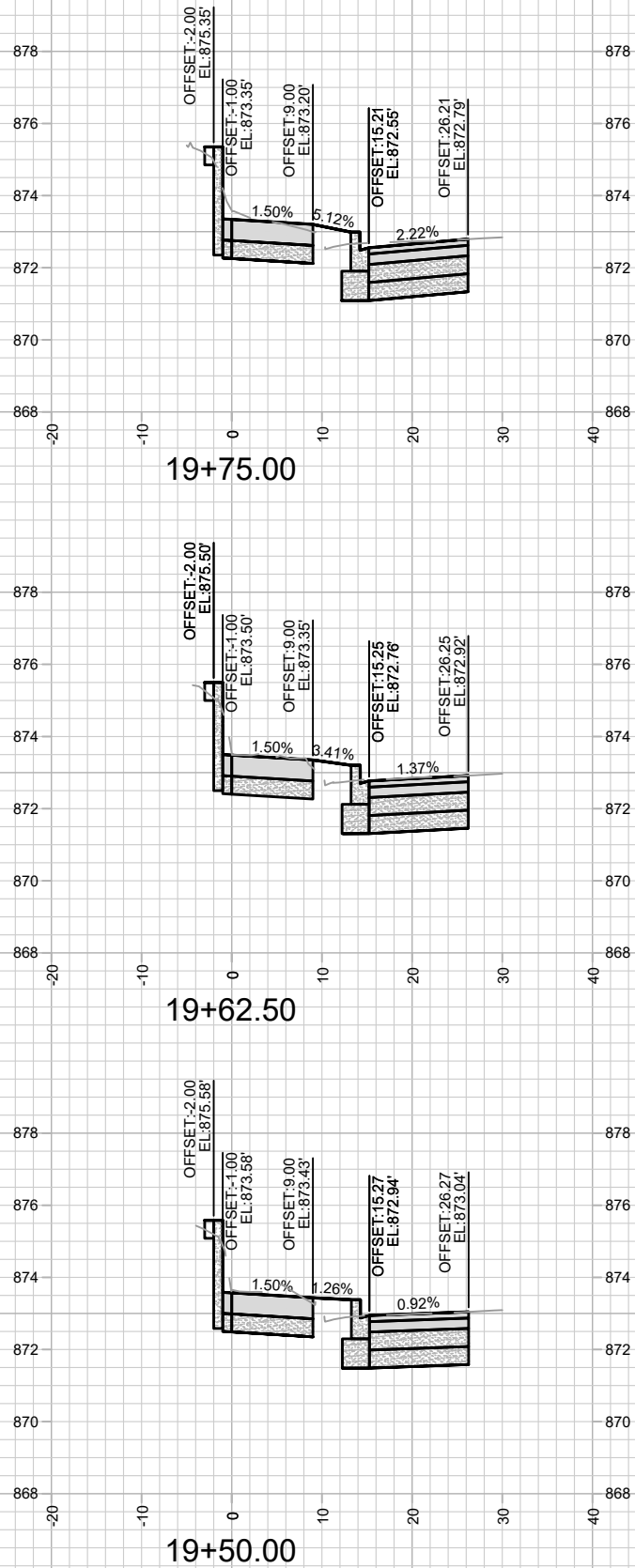
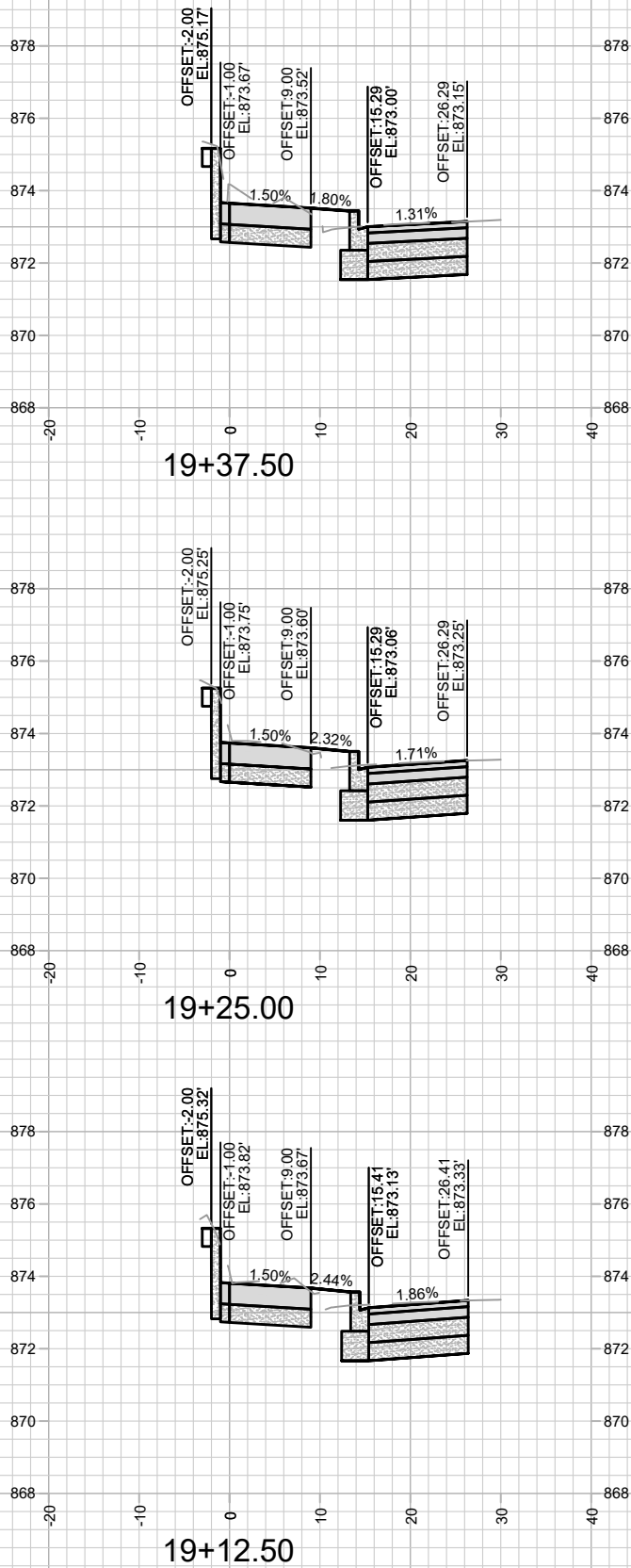
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X-8

CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

10153
MADISON, WI
7431

CONTRACT NO.:
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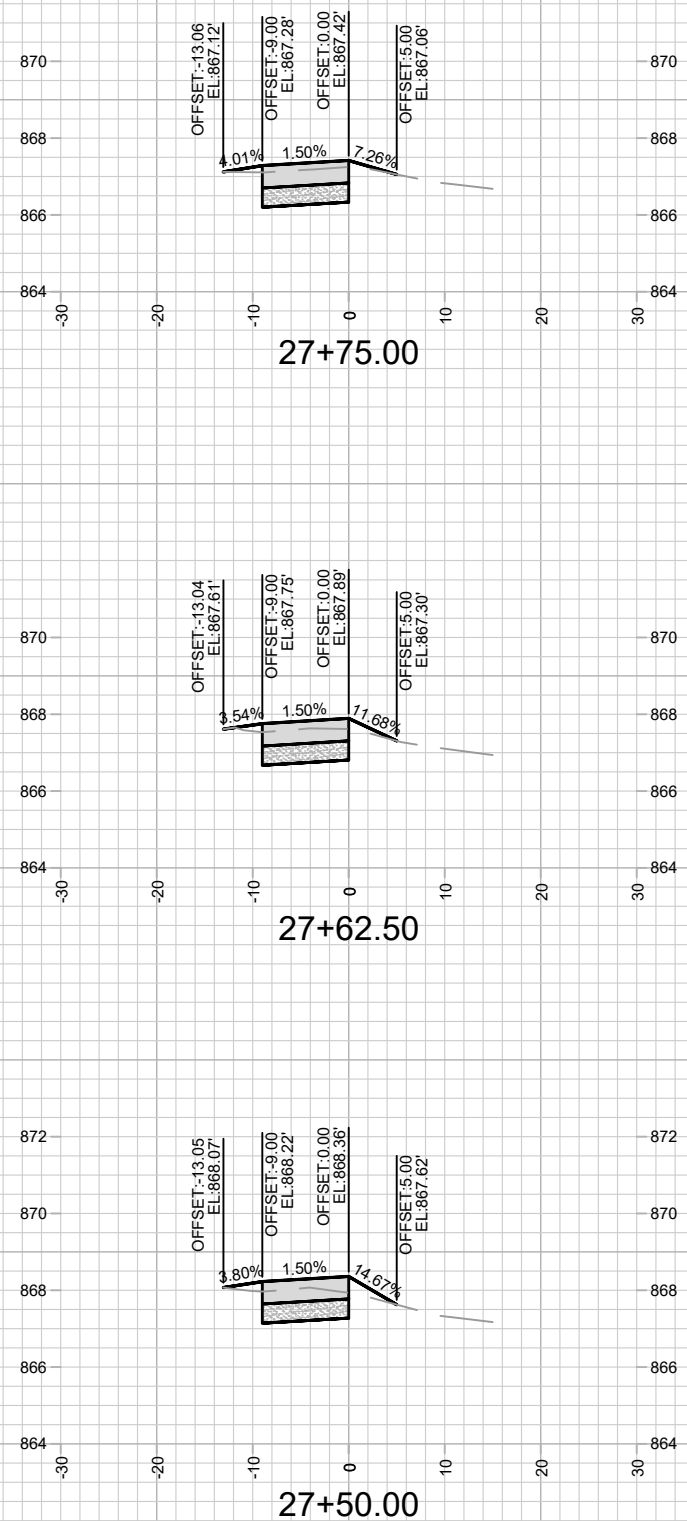
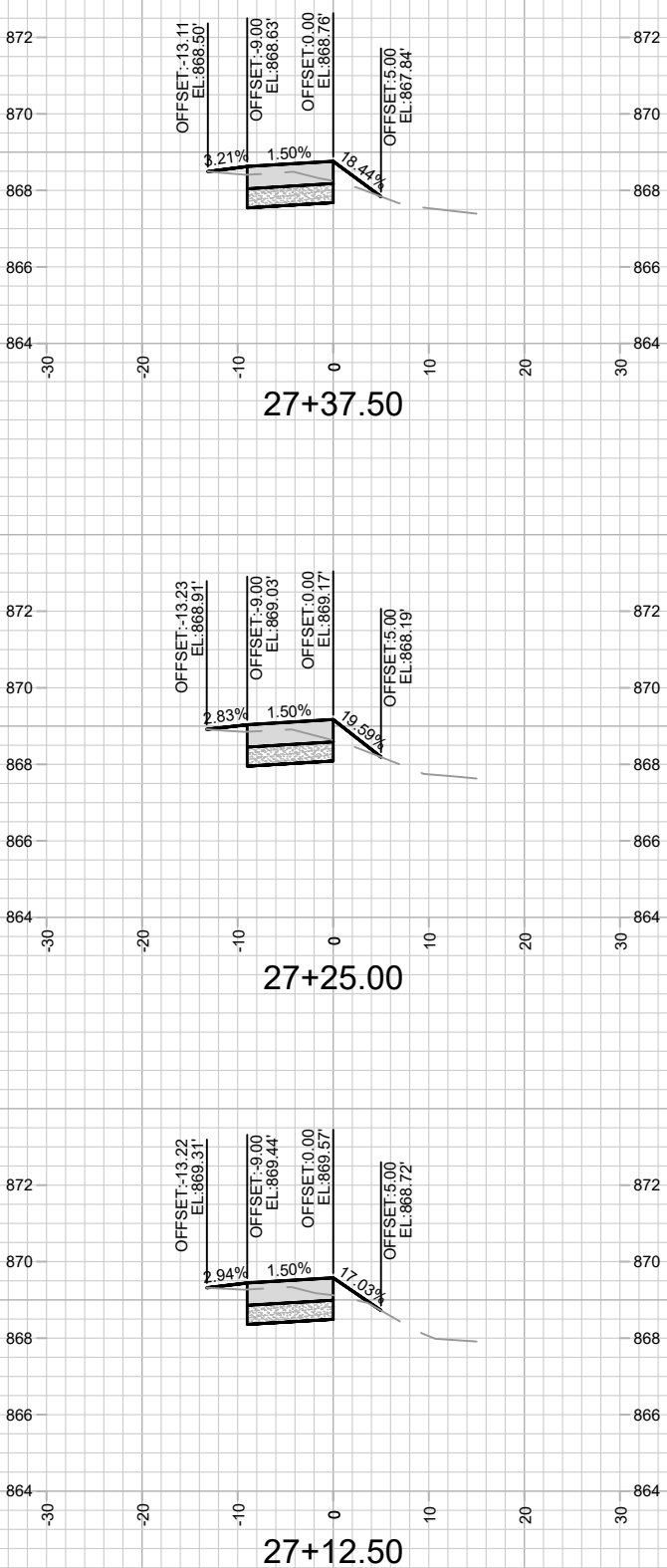
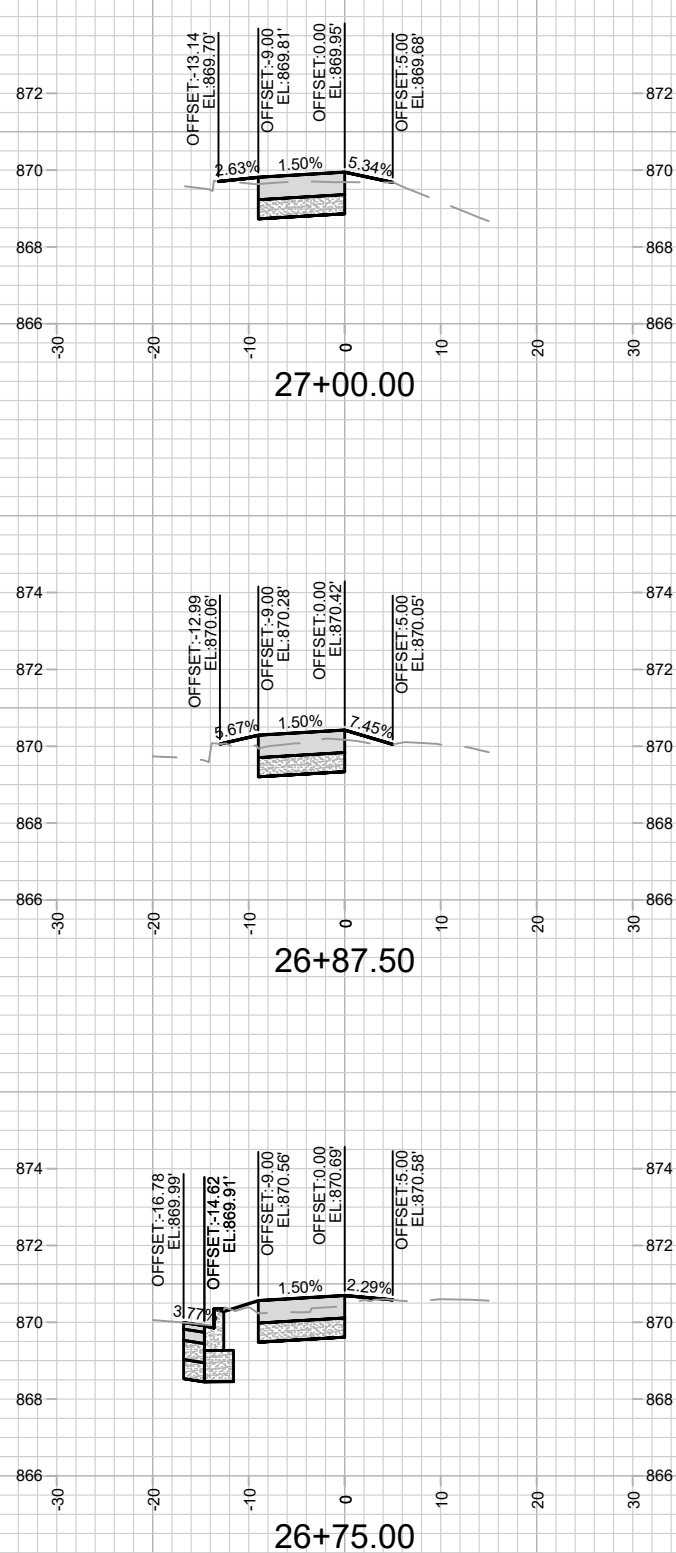
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CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

10153
MADISON, WI
7431
CONTRACT NO:

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10153
X-10

CANNONBALL PATH (CARVER ST TO BOWMAN FIELD) - CROSS SECTIONS

CANNONBALL PATH: PHASE 6

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MADISON, WI

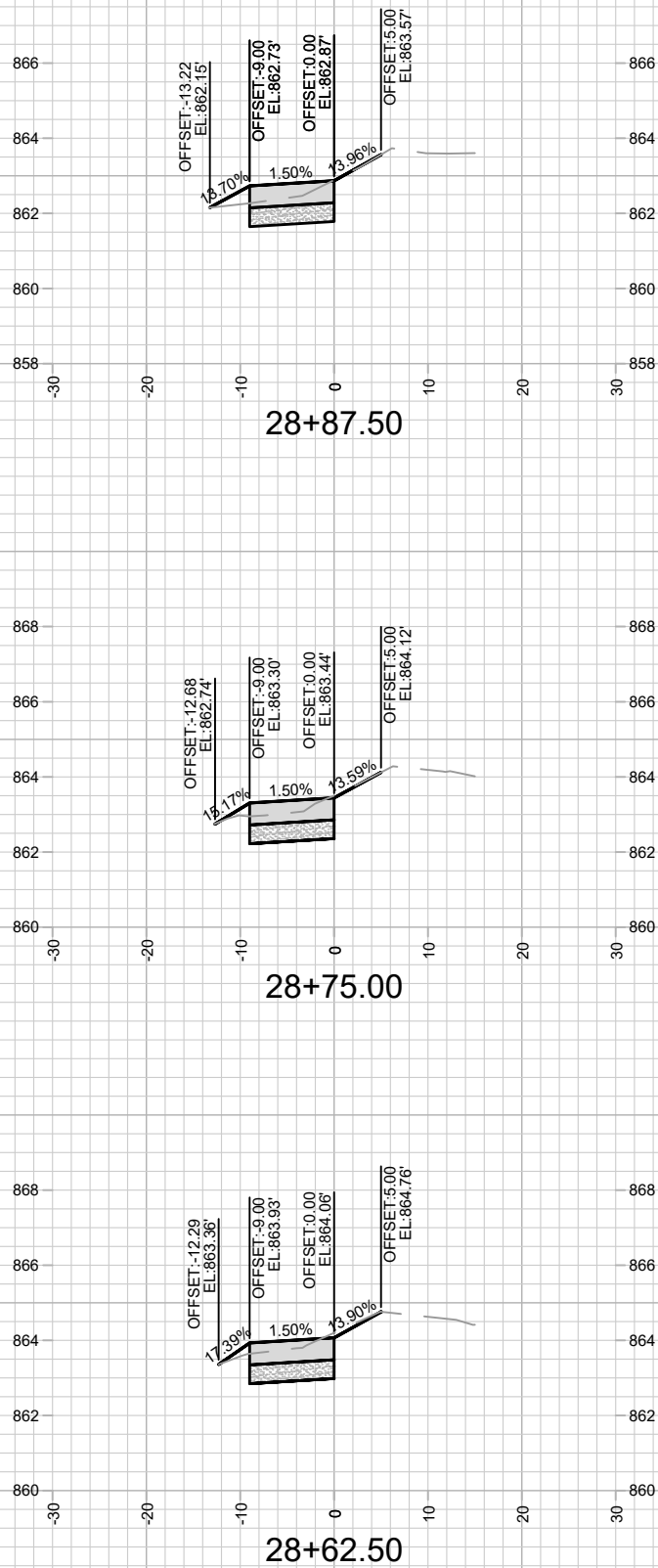
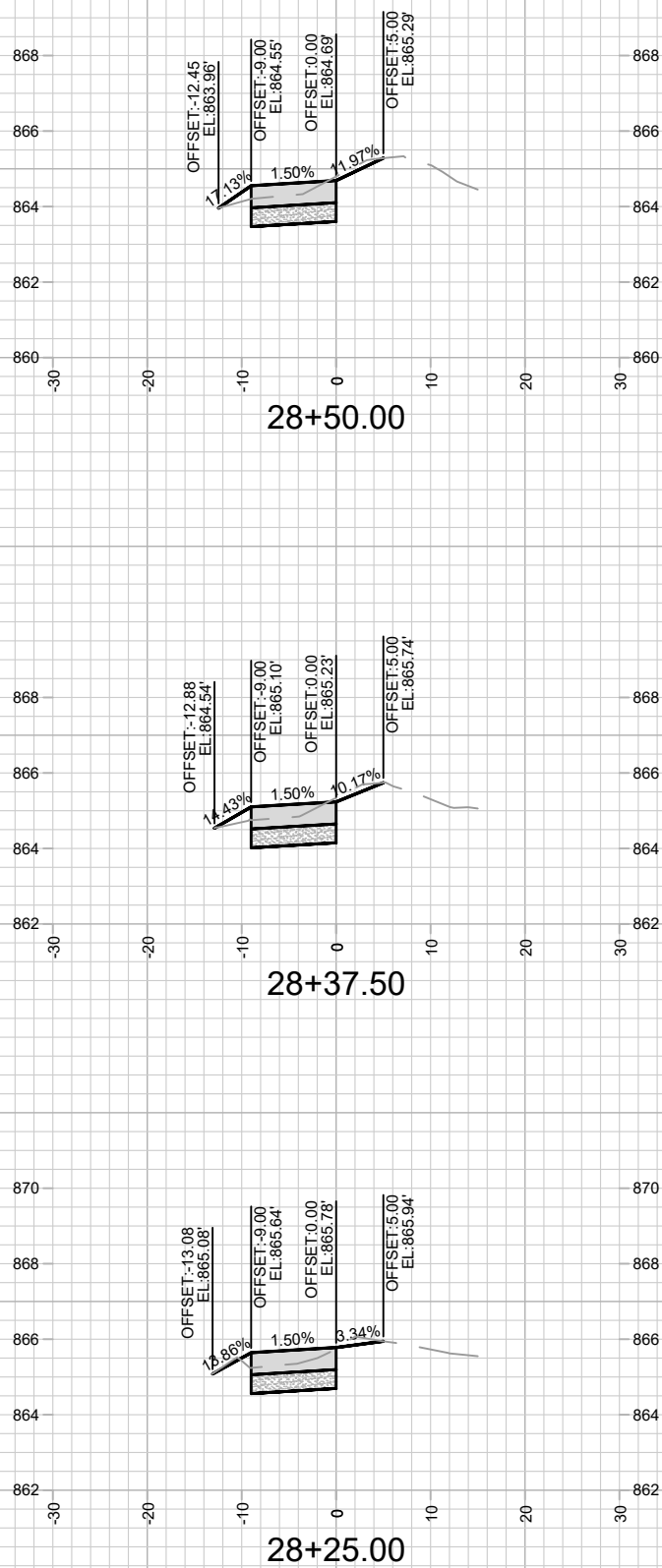
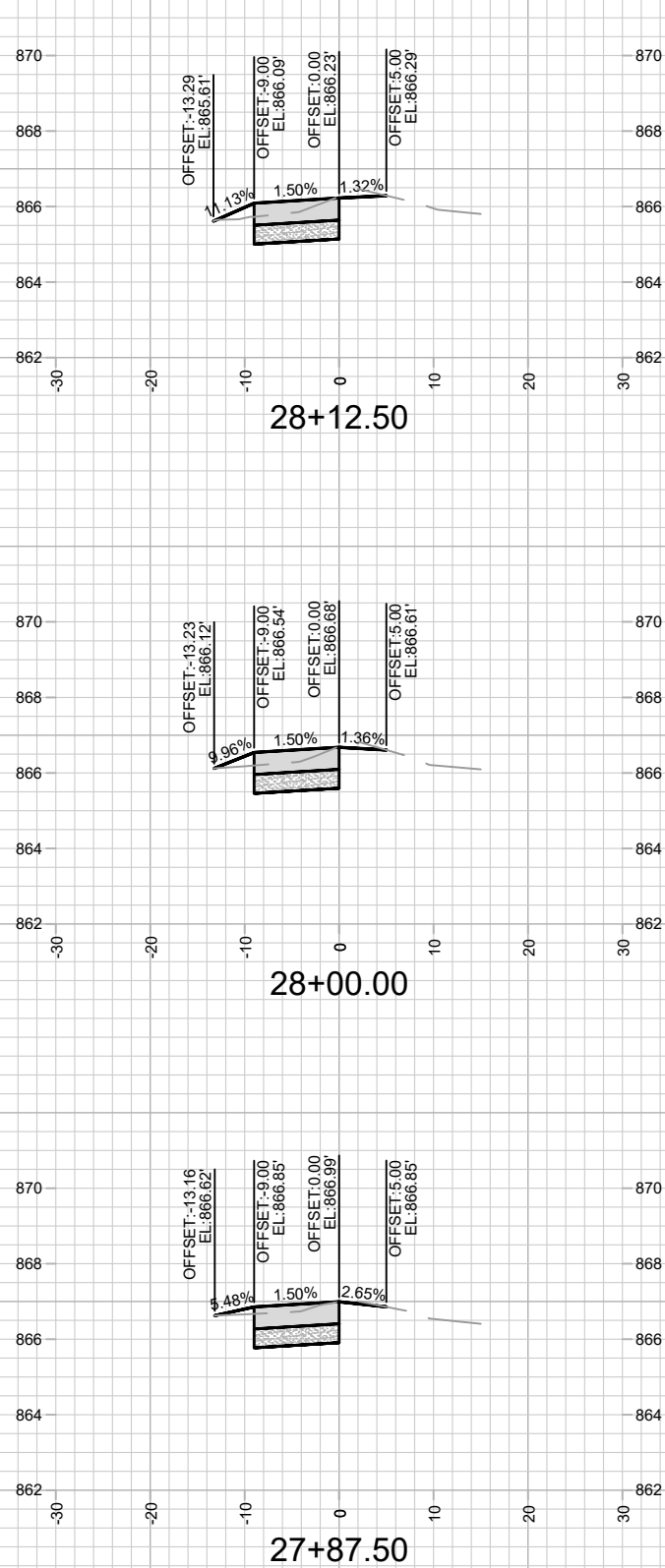
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Designd By: AJC	



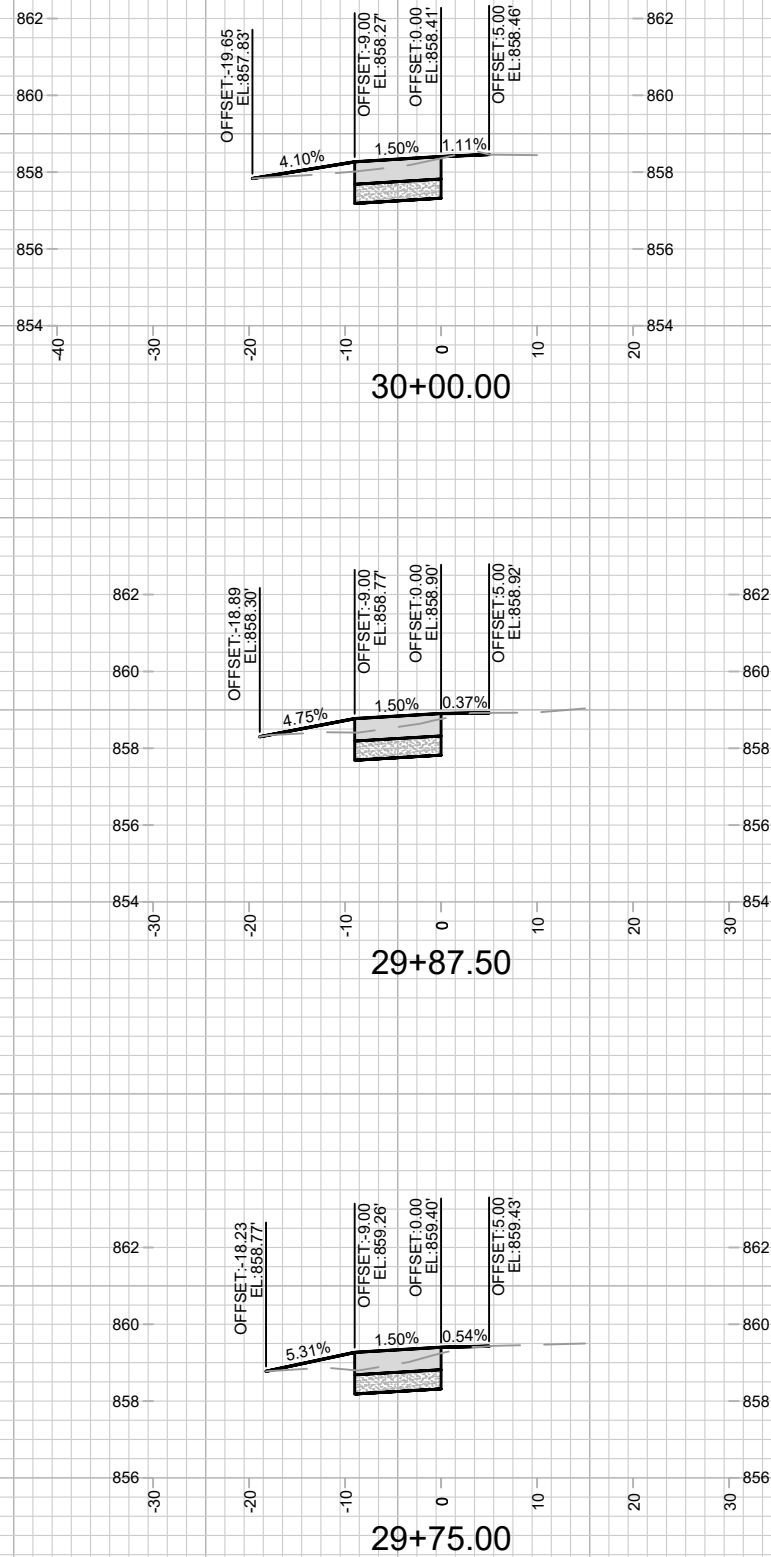
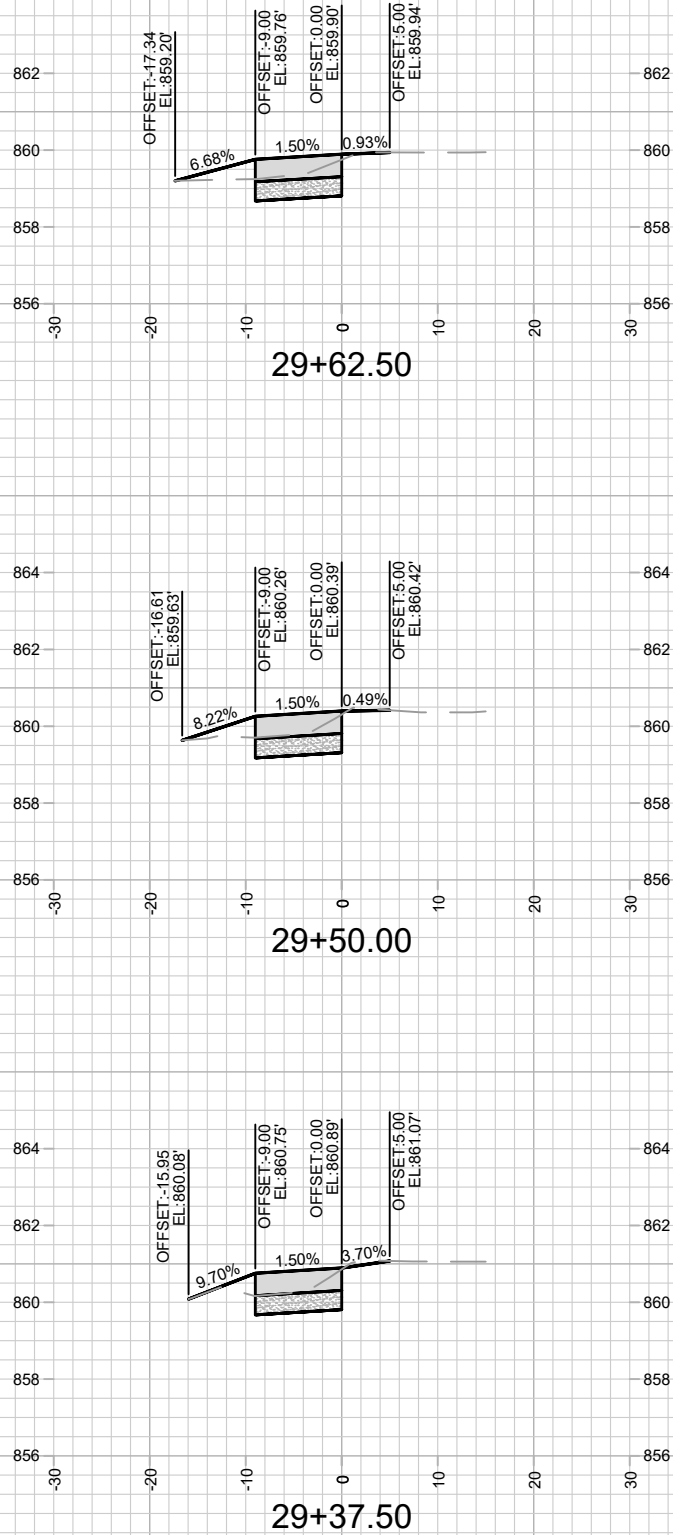
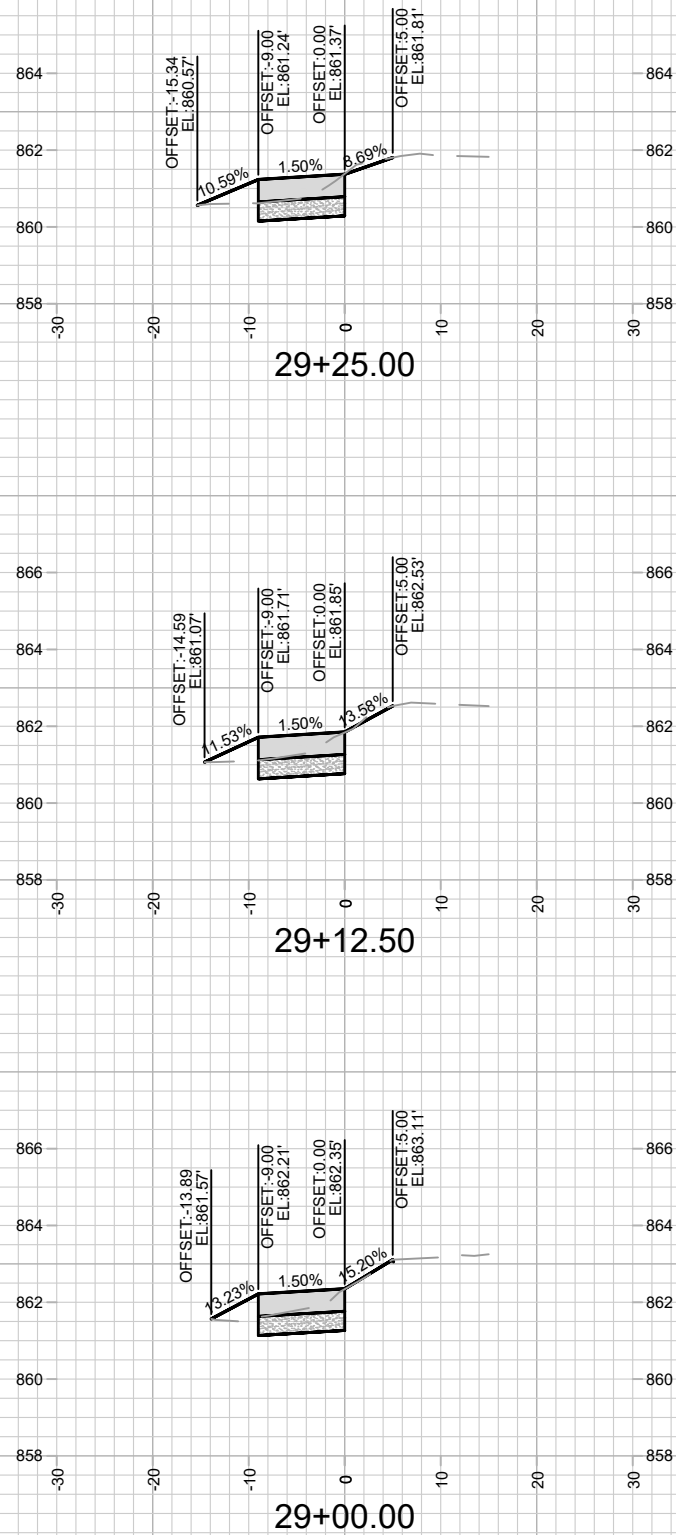
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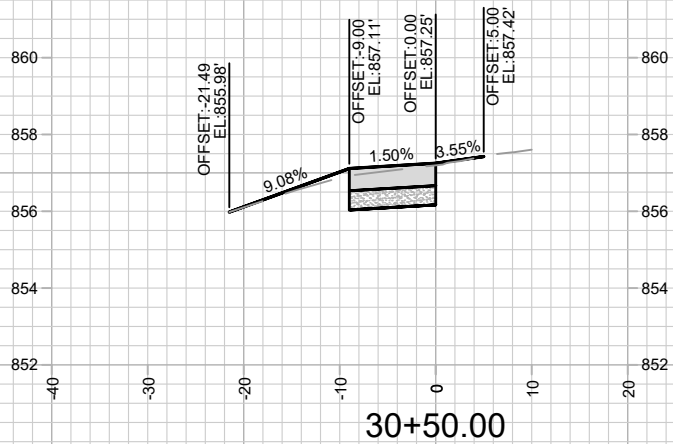
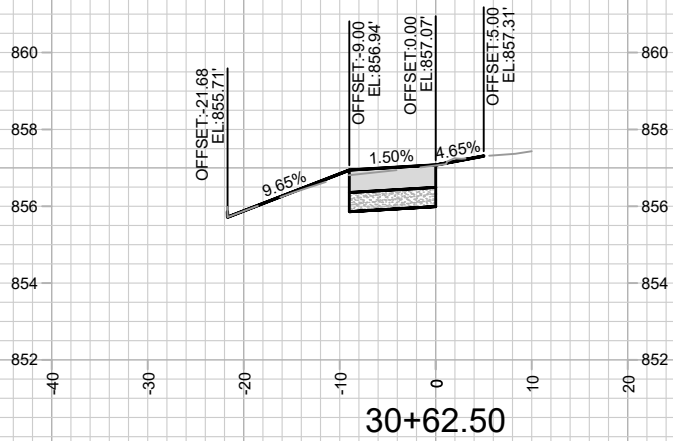
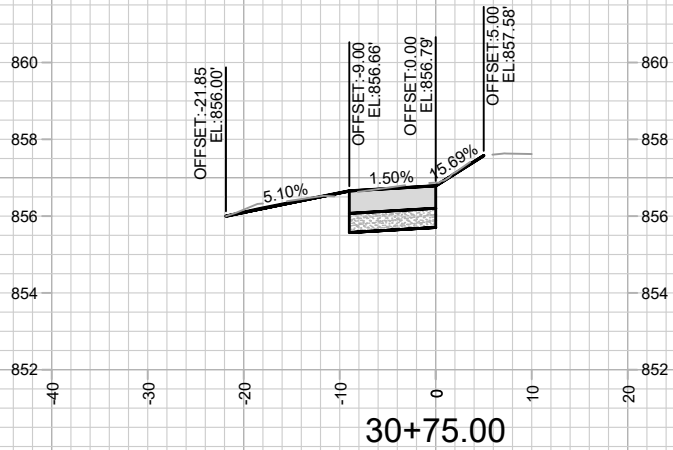
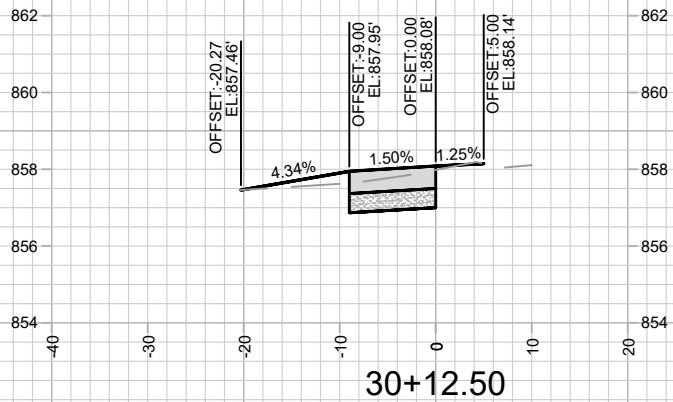
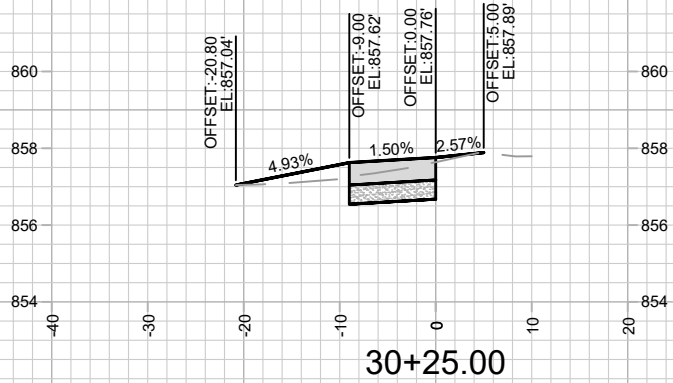
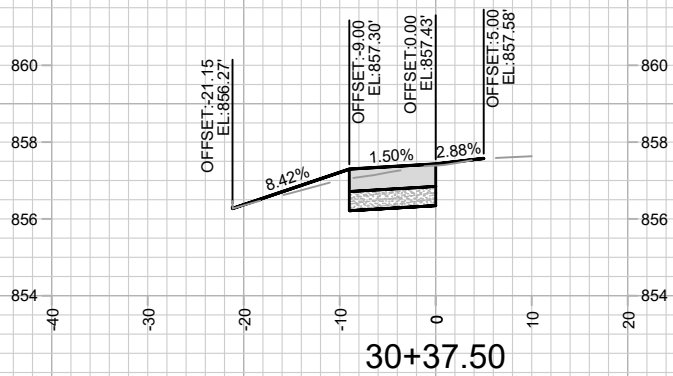
CANNONBALL PATH (CARVER ST TO BOWMAN FIELD) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

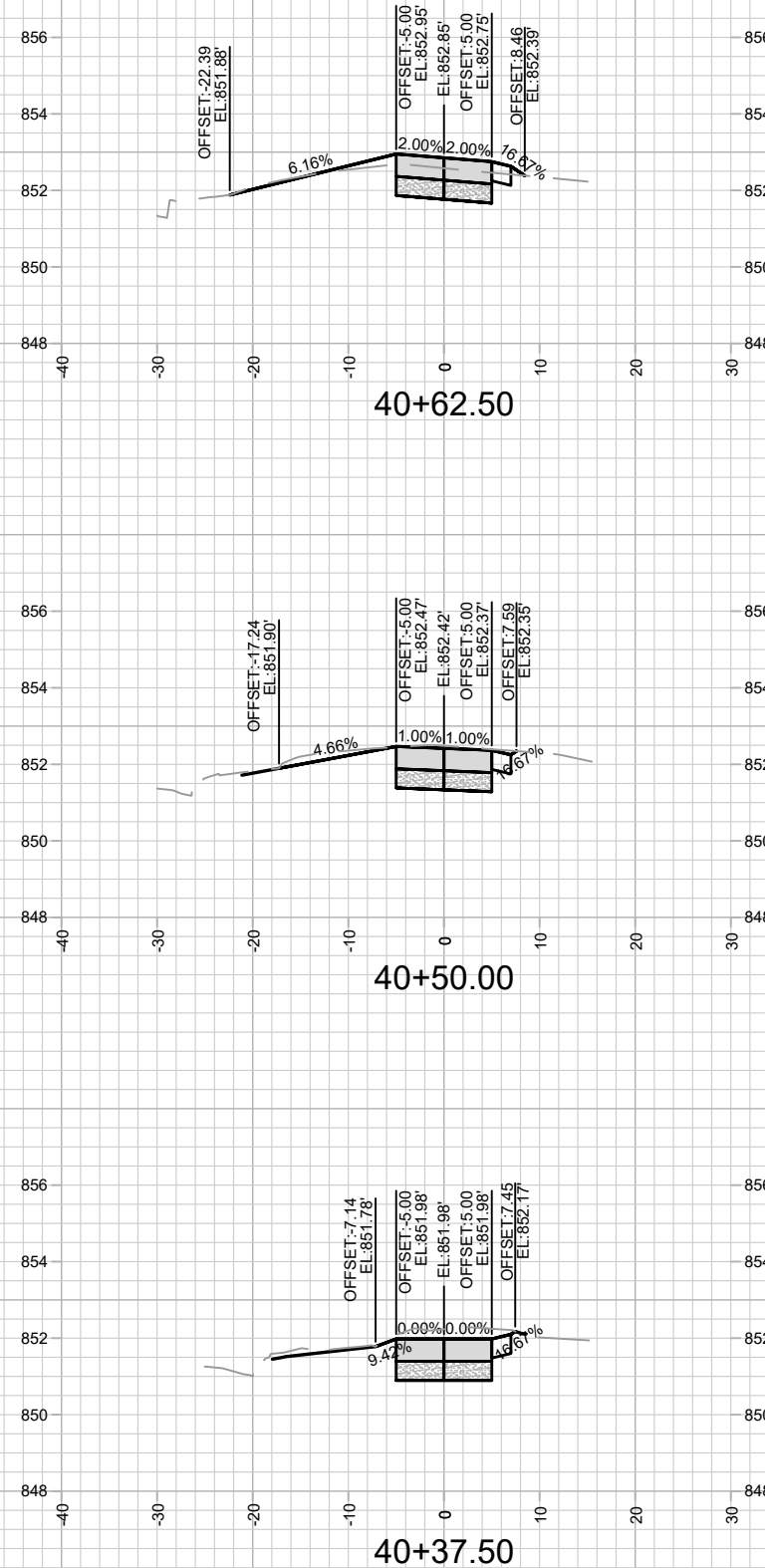
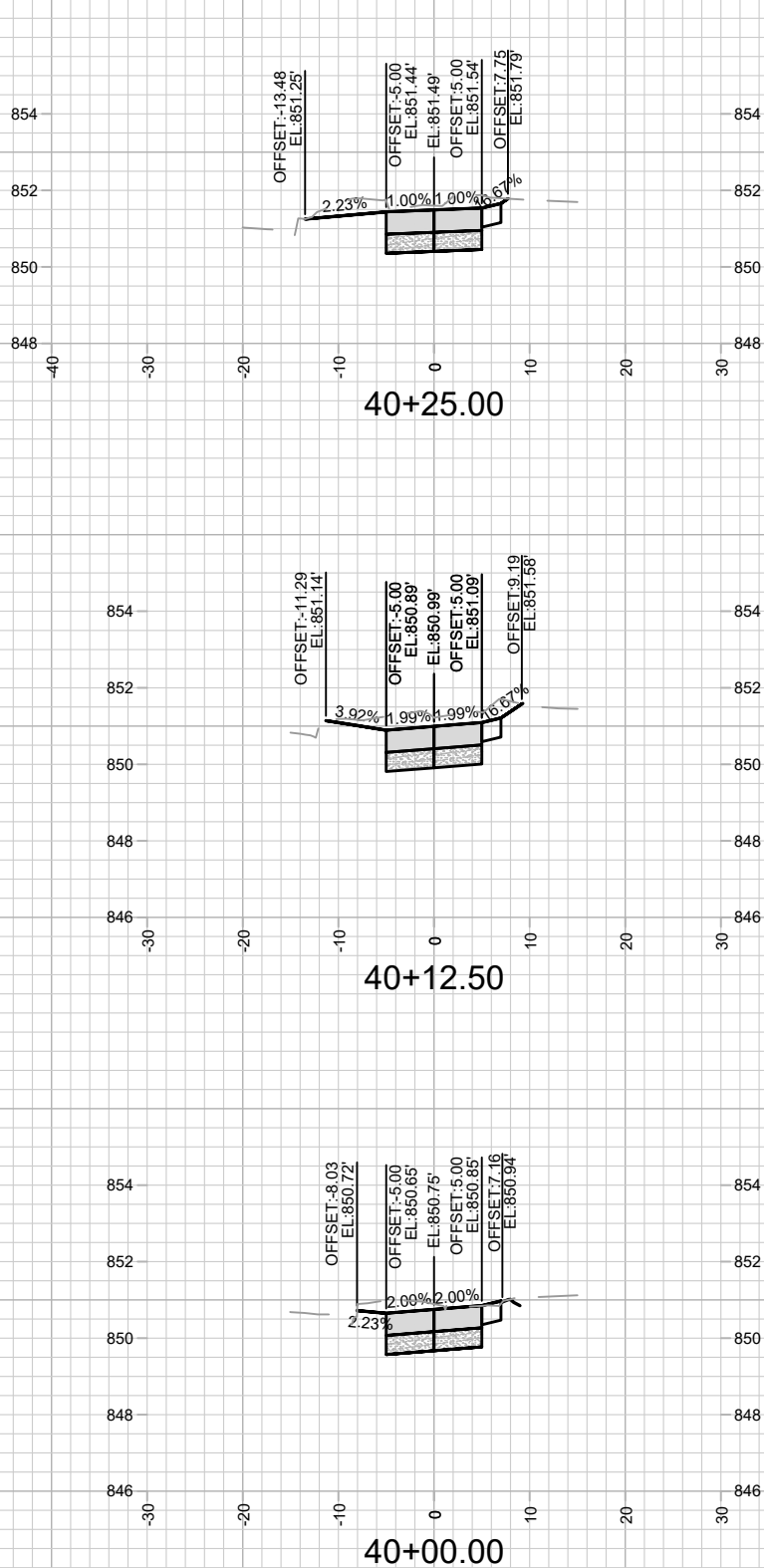
10153
MADISON, WI
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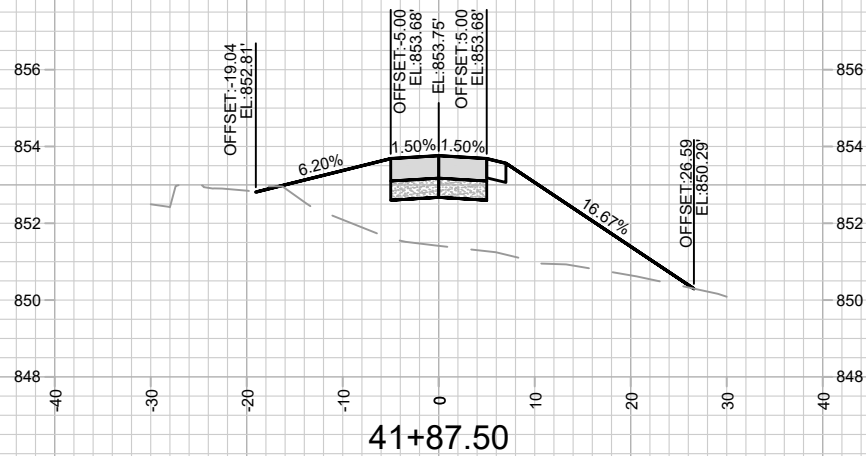
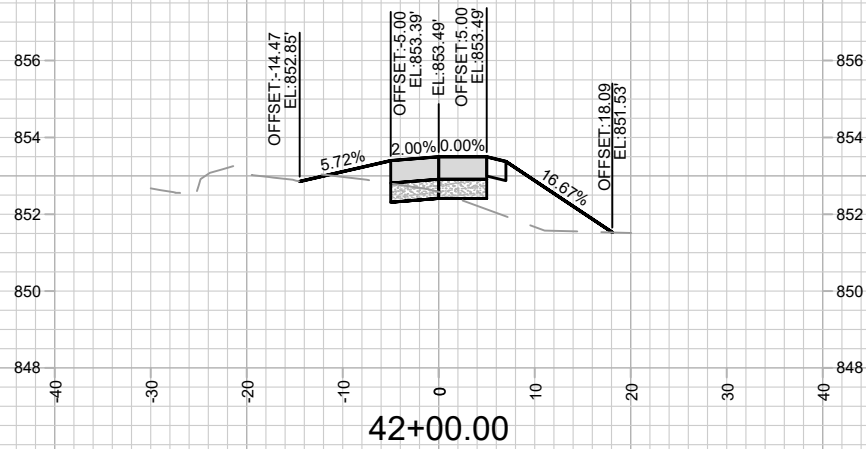
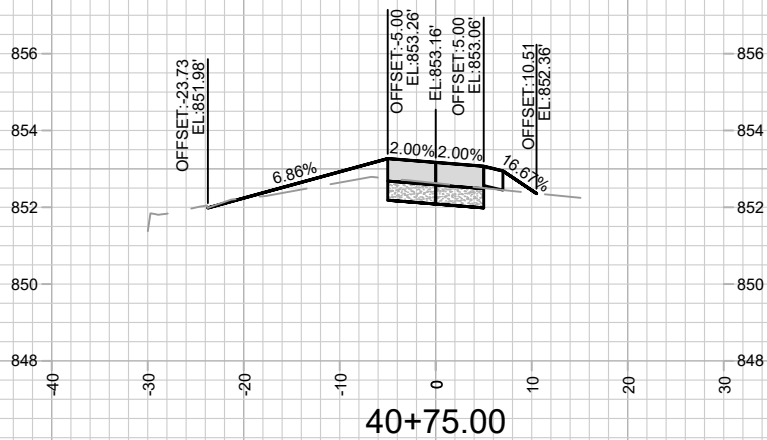
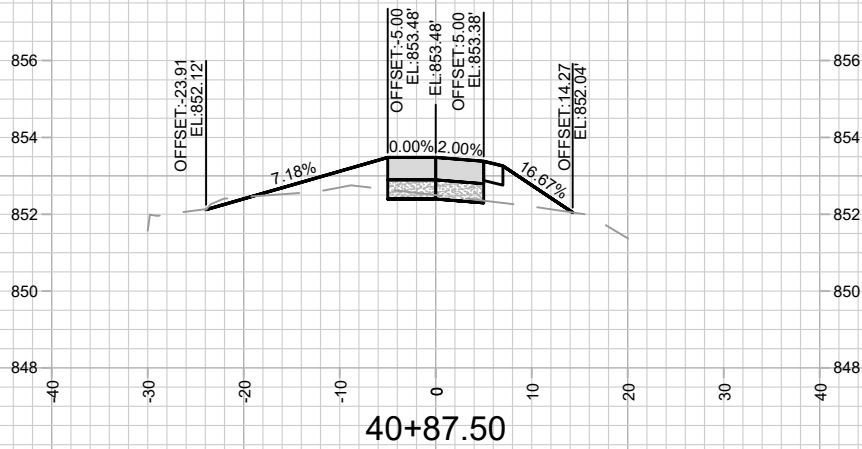
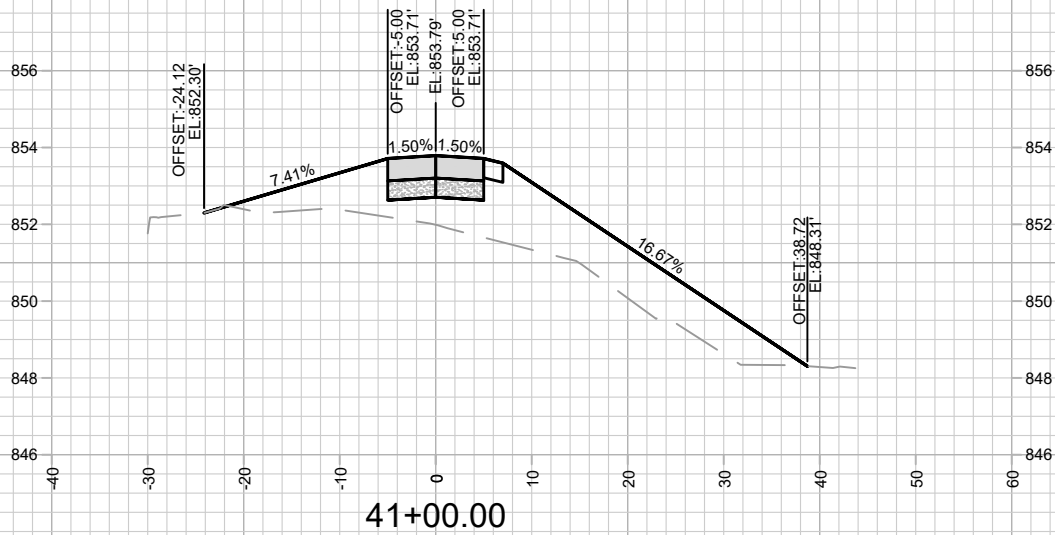
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CANNONBALL PATH (PLAENERT DR TO WINGRA PATH) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

10153
MADISON, WI
7431

CONTRACT NO:

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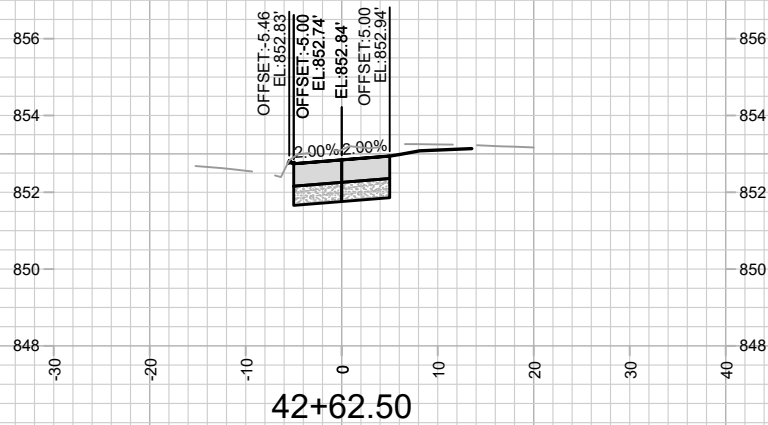
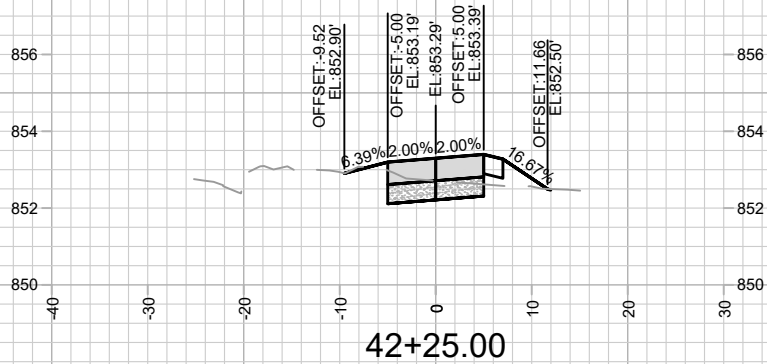
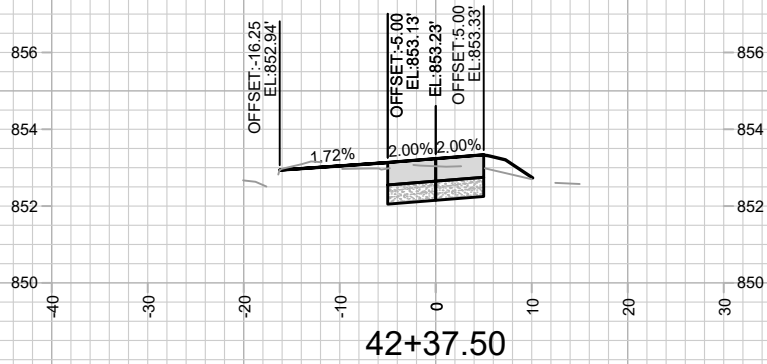
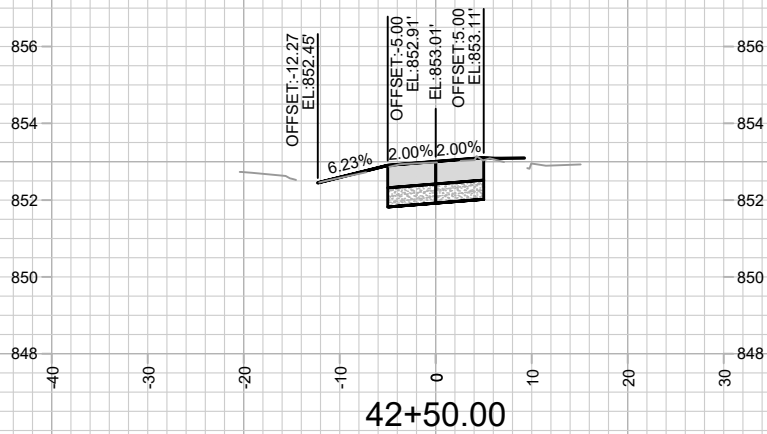
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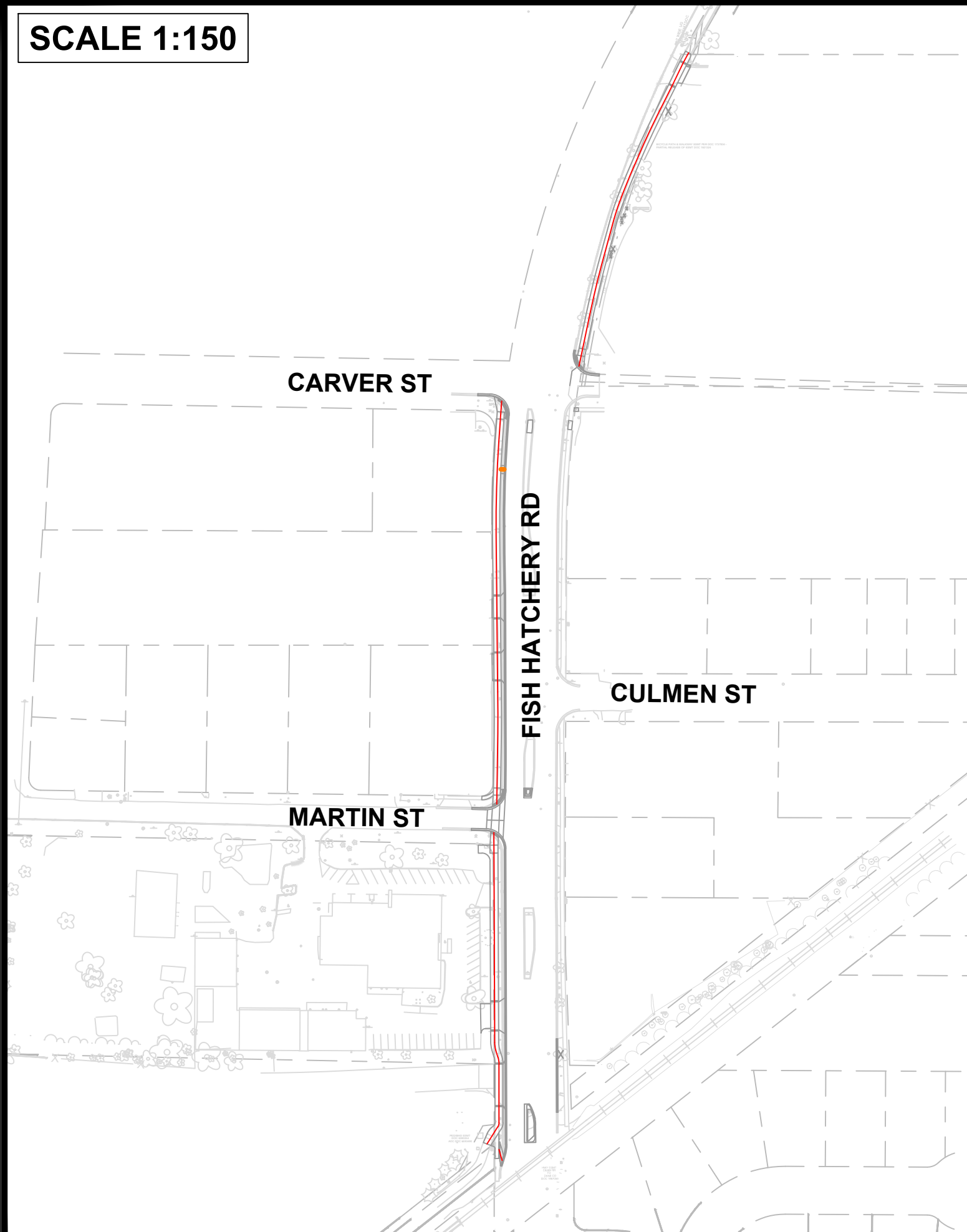
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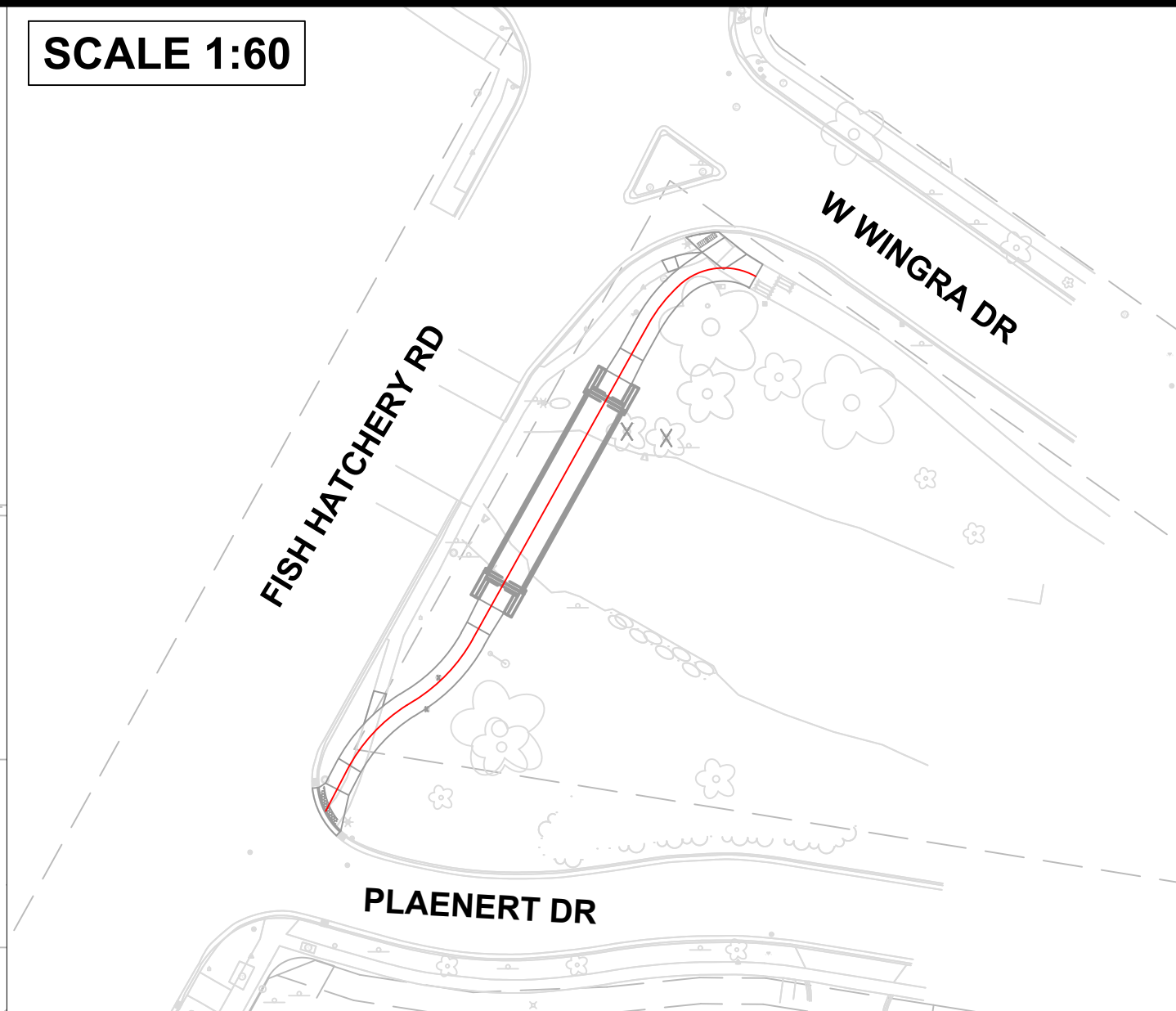
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X-15



SCALE 1:150



SCALE 1:60



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

SPECIAL FEATURES LEGEND:

= SUSPENDED PAVEMENT SYSTEM

= STORM WATER FEATURE

= UNDERDRAIN

NOT FOR CONSTRUCTION - CITY RECORDS ONLY

CANNONBALL PATH PHASE 6 - MAINTENANCE MAP

CANNONBALL PATH: PHASE 6

10153

MN-1

10153

MADISON, WI

7431

CONTRACT NO:

10153

MN-1

REVISION

DATE

BY

MARK

Desiged By: AUC

Date: 2/26/2026 5:28 PM

Scale: #####

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