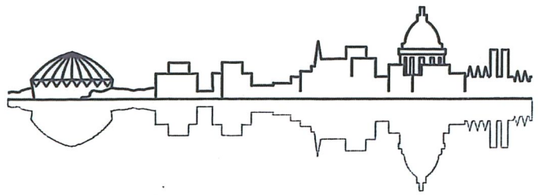


Madison, Wisconsin

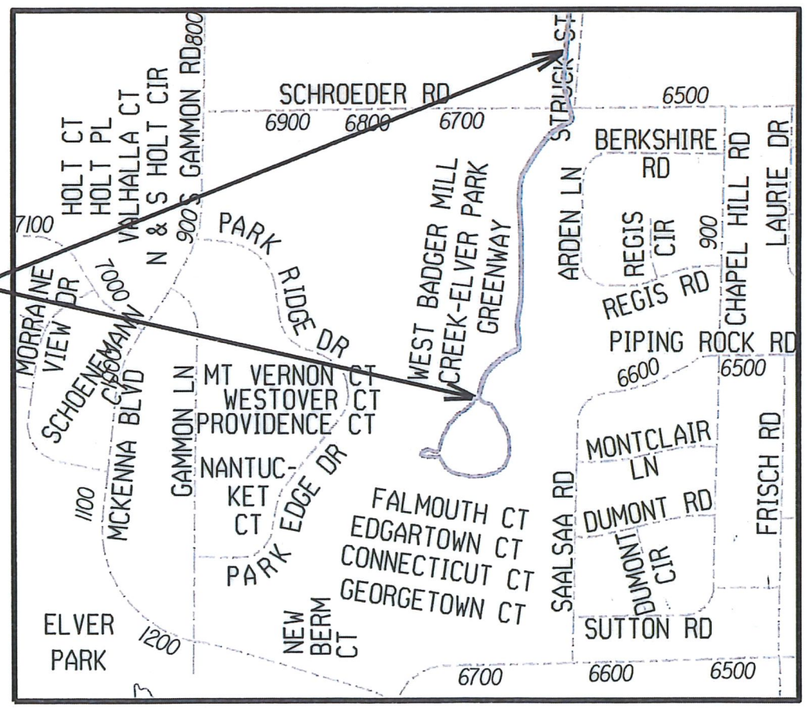
CITY OF MADISON

CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

MCKENNA BLVD. FLOOD MITIGATION – PHASE 2
(GREENTREE POND TO N. STRUCK ST)

CITY PROJECT NO. 12746
8536

INDEX OF SHEETS



PROJECT EXTENTS

CONVENTIONAL SIGNS
FIELD VERIFY ALL UTILITY LOCATIONS

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

NOTES:
ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.
SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%.
SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

PUBLIC IMPROVEMENT PROJECT APPROVED

MARCH 17, 2020

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

City Engineer — *Date* 3/24/20

STREET DESIGNED BY:

WISCONSIN
JAMES M WOLFE
E-42725
MADISON, WI
3-24-20
PROFESSIONAL ENGINEER

PAVEMENT MARKINGS & TRAFFIC CONTROL DESIGNED BY:

WISCONSIN
MARK S. WINTER
E-39453
MADISON WI
3/23/20
PROFESSIONAL ENGINEER

SANITARY SEWER DESIGNED BY:

WATER MAIN DESIGNED BY:

WISCONSIN
KELLY B. MIESS
E-41821
MADISON WI
3/18/20
PROFESSIONAL ENGINEER

STORM SEWER DESIGNED BY:

WISCONSIN
3/24/20
MATTHEW A. ALLIE
E-44986
MADISON WI
PROFESSIONAL ENGINEER

PLOT SCALE: ——
PLOT NAME: ——
REV. DATE: ——
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12746\Storm\Design\12746EN-TitleShtPhase2.dgn

DATE: 3/18/2020

MCKENNA FLOOD MITIGATION PHASE 2 PROJECT NO. 12746	SHEET 2
PROJECT EXTENTS OVERVIEW	

SCALE: 1"= 160'

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

APPROX.
PROJECT
EXTENTS

MCKENNA FLOOD MITIGATION PHASE 2 PROJECT NO. 12746	SHEET NO. EC-1
EROSION CONTROL & RESTORATION PLAN CITY OF MADISON	

PLOT SCALE: ____

PLOT NAME: ____

REV. DATE: ____

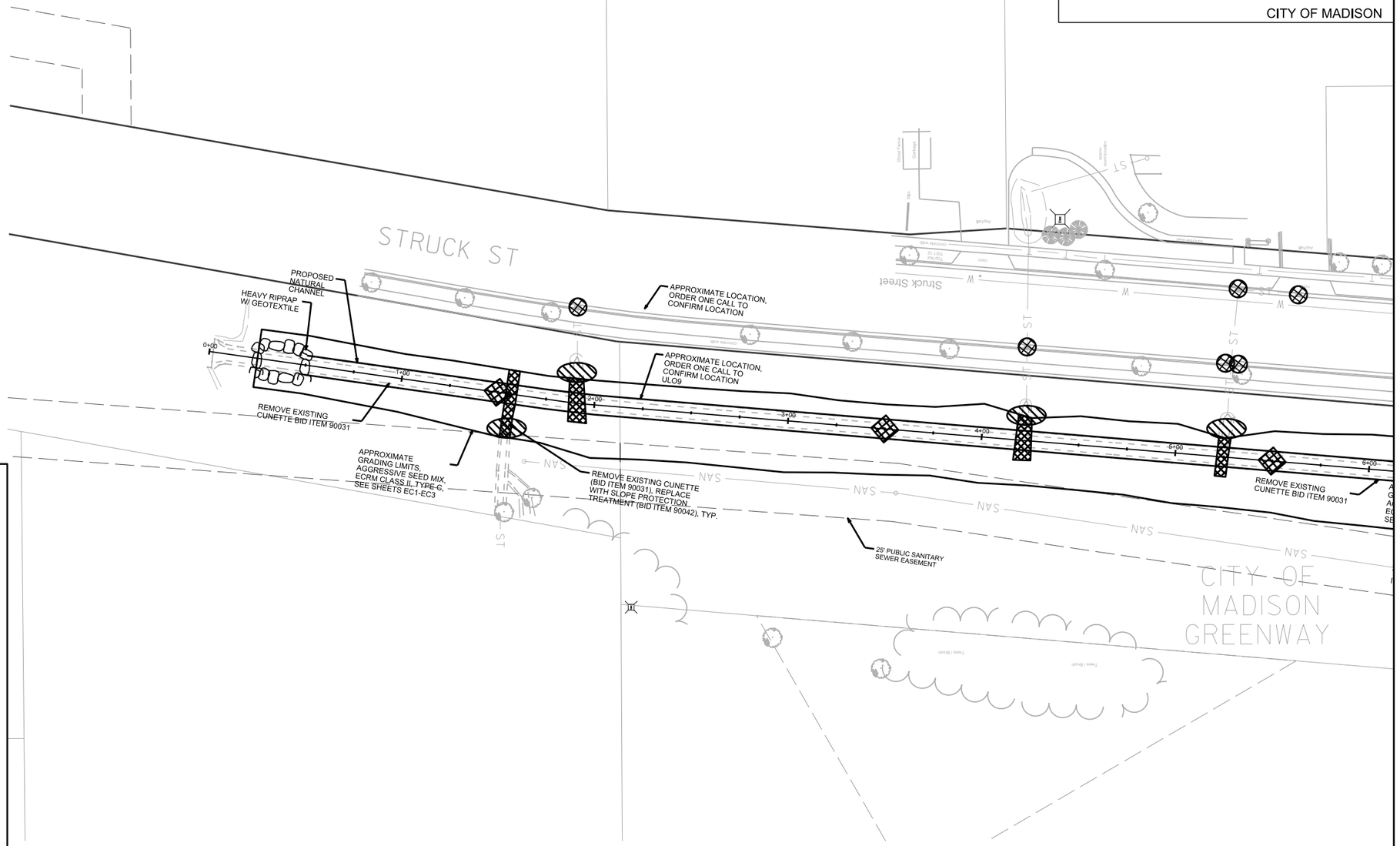
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL LEGEND

- VELOCITY CHECK / DEWATERING BARRIER
- INLET PROTECTION RIGID FRAME
- DITCH CHECK SEE DETAIL (S.D.D. 1.05)
- CONSTRUCTION ENTRANCE

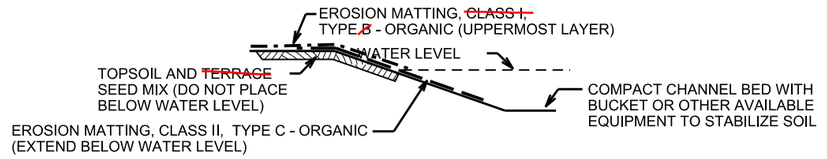
EROSION CONTROL NOTES:

1) EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.
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 SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.
4) THE CONTRACTOR SHALL PROVIDE STREET SWEEPING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.
5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STORM WATER CONTROL MEASURES NECESSARY WITHIN THE CHANNEL AND ASSOCIATED DRAINAGES.
6) POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.
7) NO CONSTRUCTION MATERIALS OR STOCKPILES SHALL BE STORED IN THE CHANNEL.
8) CHECK DAMS SHALL BE CONSTRUCTED IN THE LOW-FLOW CHANNEL AS SHOWN IN THE PLAN SET, OR AS DIRECTED BY THE CONSTRUCTION ENGINEER.
9) THE CONTRACTOR SHALL INSTALL SILT FENCE OR SILT SOCK AT THE DIRECTION OF THE CONSTRUCTION ENGINEER.
10) ALL EROSION CONTROL MATTING SHALL BE OVERLAPPED SUCH THAT THE OVERLAP CORRESPONDS TO THE FLOW DIRECTION.
11) ADDITIONAL INLET PROTECTION MAY BE REQUIRED OUTSIDE THE LIMITS OF THIS SHEET.
12) THE CONTRACTOR SHALL USE APPROPRIATE CONCRETE WASTE CATCHMENT. ALL POINTS ON THIS SITE DRAIN DIRECTLY TO THE GREENWAY.



0 60 120

CLASS II, TYPE C



EARTHEN CHANNEL RESTORATION DETAIL

FILE NAME: M:\DESIGN\Projects\12746\Storm\Design\12746STM-Ph2EC-3.dgn DATE: 3/26/2020 PLOT SCALE: 60.0034 sf / In.

MCKENNA FLOOD MITIGATION PHASE 2 PROJECT NO. 12746	SHEET NO. EC-2
EROSION CONTROL & RESTORATION PLAN CITY OF MADISON	

EROSION CONTROL NOTES:

1) EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.
2) THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.
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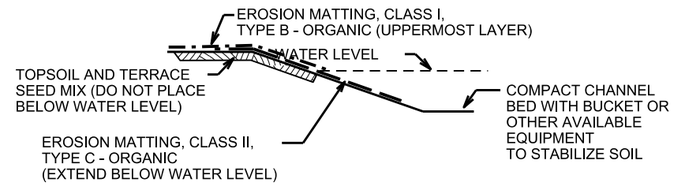
12) THE CONTRACTOR SHALL USE APPROPRIATE CONCRETE WASTE CATCHMENT. ALL POINTS ON THIS SITE DRAIN DIRECTLY TO THE GREENWAY.

EROSION CONTROL LEGEND

- VELOCITY CHECK / DEWATERING BARRIER
- INLET PROTECTION RIGID FRAME
- DITCH CHECK SEE DETAIL (S.D.D. 1.05)
- CONSTRUCTION ENTRANCE



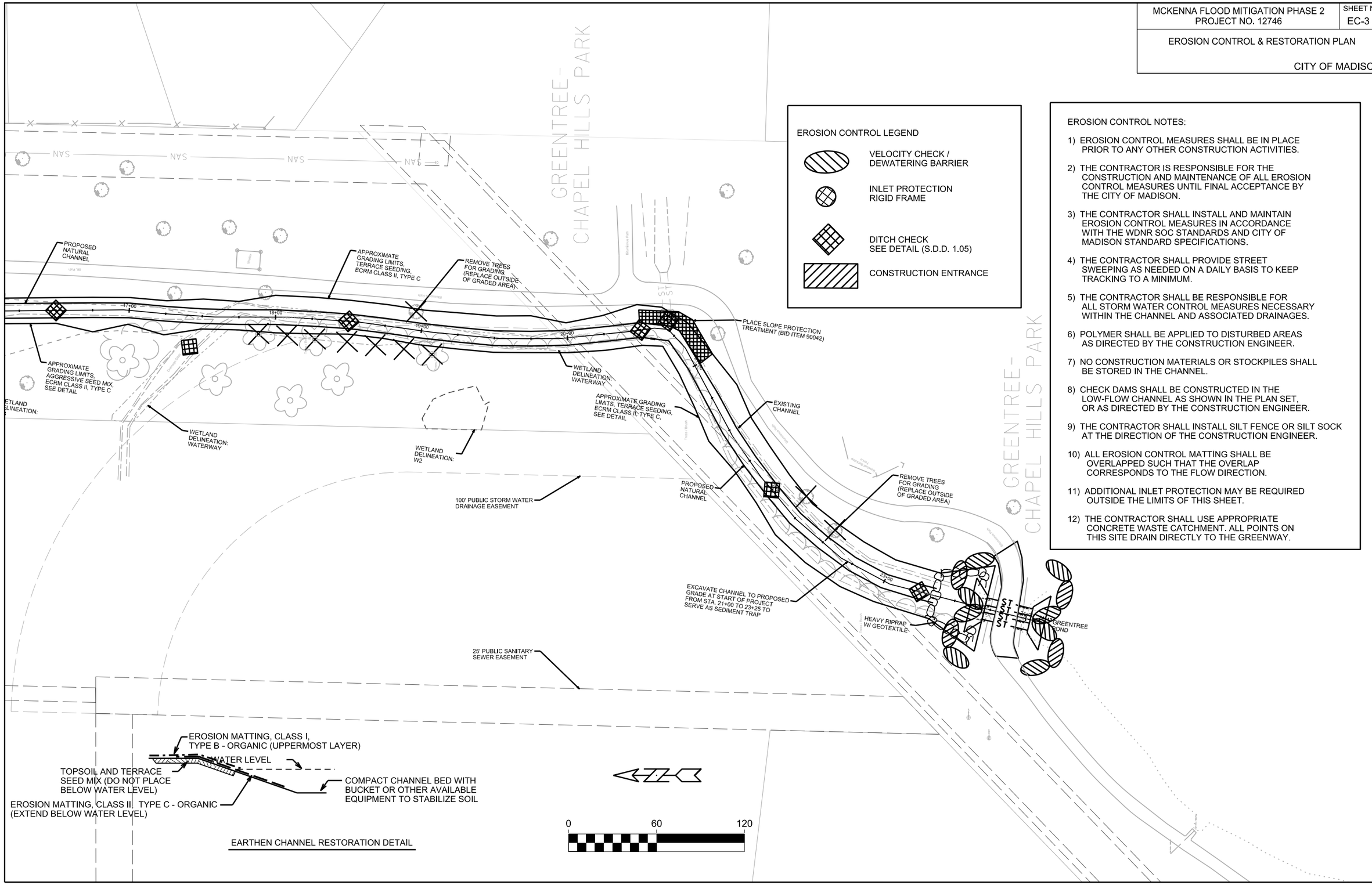
EARTHEN CHANNEL RESTORATION DETAIL

PLOT SCALE: ____
PLOT NAME: ____
REV. DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12746\Storm\Design\12746STM-Ph2EC-2.dgn
DATE: 3/27/2020
PLOT SCALE: 60.0034 sf / In.

MCKENNA FLOOD MITIGATION PHASE 2 PROJECT NO. 12746	SHEET NO. EC-3
EROSION CONTROL & RESTORATION PLAN CITY OF MADISON	

PLOT SCALE: ____
PLOT NAME: ____
REV. DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



EROSION CONTROL LEGEND

- VELOCITY CHECK / DEWATERING BARRIER
- INLET PROTECTION RIGID FRAME
- DITCH CHECK SEE DETAIL (S.D.D. 1.05)
- CONSTRUCTION ENTRANCE

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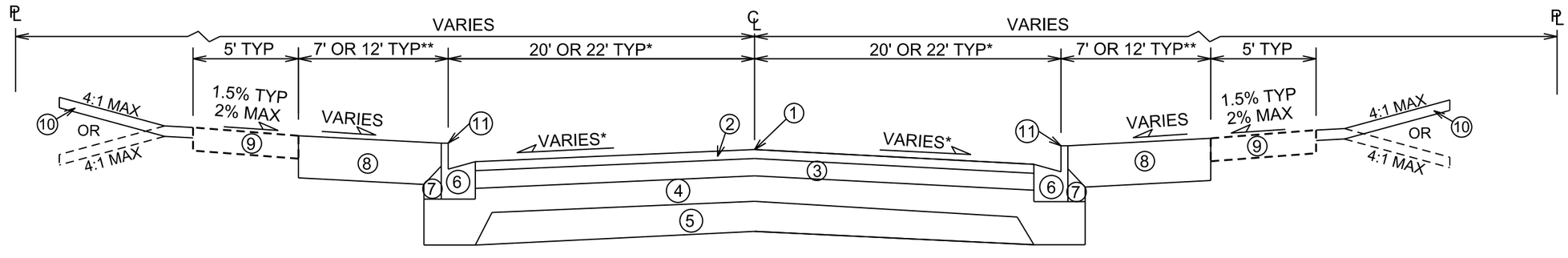
11) ADDITIONAL INLET PROTECTION MAY BE REQUIRED OUTSIDE THE LIMITS OF THIS SHEET.
12) THE CONTRACTOR SHALL USE APPROPRIATE CONCRETE WASTE CATCHMENT. ALL POINTS ON THIS SITE DRAIN DIRECTLY TO THE GREENWAY.

EARTHEN CHANNEL RESTORATION DETAIL

0 60 120

FILE NAME: M:\DESIGN\Projects\12746\Storm\Design\12746STM-Ph2EC-1.dgn DATE: 3/27/2020 PLOT SCALE: 60.0034 sf / In.

MCKENNA FLOOD MITIGATION PH. 2 PROJECT NO. 12746	SHEET NO. D-1
DETAILS	
TYPICAL SECTIONS	CITY OF MADISON



* SCHROEDER RD = 22'; STRUCK ST = 20'

** SCHROEDER RD = 12'; STRUCK ST = 7'

TYPICAL FINISHED SECTION
SCHROEDER RD & STRUCK ST
NOT TO SCALE

① POINT REFERRED TO ON PROFILE
② 2" HMA PAVEMENT, 4 MT 58-28 S
③ 3.5" HMA PAVEMENT, 3 MT 58-28 S
④ 6" GRADATION 2 CRUSHED AGGREGATE BASE
⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE
⑥ TYPE 'A' CONCRETE CURB & GUTTER
⑦ FILL, INCIDENTAL
⑧ 12" TOPSOIL, SEED & EROSION MAT
⑨ 5" CONCRETE SIDEWALK, SEE PLAN FOR LOCATIONS
⑩ 6" TOPSOIL, SEED & EROSION MAT
⑪ POINT REFERRED TO FOR CURB GRADES

FOR BIKE PATH TYPICAL SECTION
SEE S.D.D. 4.08. WIDTH VARIES; SEE
PLAN FOR OFFSETS & DIMENSIONS

EARTHWORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY).....1,870 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT.....250 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT.....2,120 C.Y.

PLOT SCALE: ____
PLOT NAME: ____
REV. DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12011\Streets\Design\12011EN_Details.dgn
DATE: 3/23/2020

MCKENNA FLOOD MITIGATION PH,2 PROJECT NO. 12746	SHEET NO. P-1
STREET PLAN AND PROFILE	
SCHROEDER RD.	CITY OF MADISON

PLOT SCALE: ——
PLOT NAME: ——
REV. DATE: ——
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STA 12+90.00, LT 21.77'
1020.82 TC/MATCH EX

STA 14+75.00, LT 39.00'
1018.80 BW/LOW PT

STA 14+73.00, LT 22.00'
1018.48 TC/LOW PT

STA 15+60.88, LT 44.82'
1018.96 TC/PC

STA 15+52.86, LT 28.57'
1019.06 TC/MC, HI PT

STA 15+44.83, LT 38.97'
1019.13 BW/KEYSTONE

STA 15+34.83, LT 38.97'
1019.20 BW/HI PT

STA 15+35.97, LT 22.00'
1018.96 TC/PC

STRUCK STREET

STA 16+01.84, LT 54.02'
1019.08 TC/PC

STA 16+15.88, LT 49.25'
1019.55 BW/HI PT

STA 16+16.97, LT 38.99'
1019.40 BW/KEYSTONE

RRFB & PED BUTTON TO REMAIN
PROTECT AS NECESSARY

STA 16+06.65, LT 35.13'
1019.45 TC/MC

R 25'

R 29.5'

STA 16+22.20, LT 23.37'
1019.72 TC/MATCH EX

SAWCUT

UNDERDRAIN

12+00 13+00 SCHROEDER ROAD 14+00 15+00 16+00 17+00

POB
50+00.00

ADJUST VALVE

5" CONC TERR WALK
TO DRAIN SIDEWALK

ADJUST VALVE

EXISTING ISLAND
TO REMAIN

STA 16+16.95, RT 22.00'
1019.60 TC/MATCH EX

5" CONC
BUS PAD

STA 12+90.00, RT 21.74'
1020.78 TC/MATCH EX

STA 14+73.00, RT 22.00'
1018.48 TC/LOW PT

STA 14+75.00, RT 39.00'
1018.80 BW/LOW PT

STA 15+71.60, RT 39.01'
1019.83 BW/HI PT

STA 15+47.33, RT 39.02'
1019.38 BW/RAMP

STA 16+53.54, RT 34.41'
BUS PAD

RRFB TO REMAIN
PROTECT AS NECESSARY

BIKE RAMP PER S.D.D. 3.14

STA 16+02.39, RT 39.00'
1019.66 BW

STA 15+98.49, RT 52.56'
1018.95 BP CL

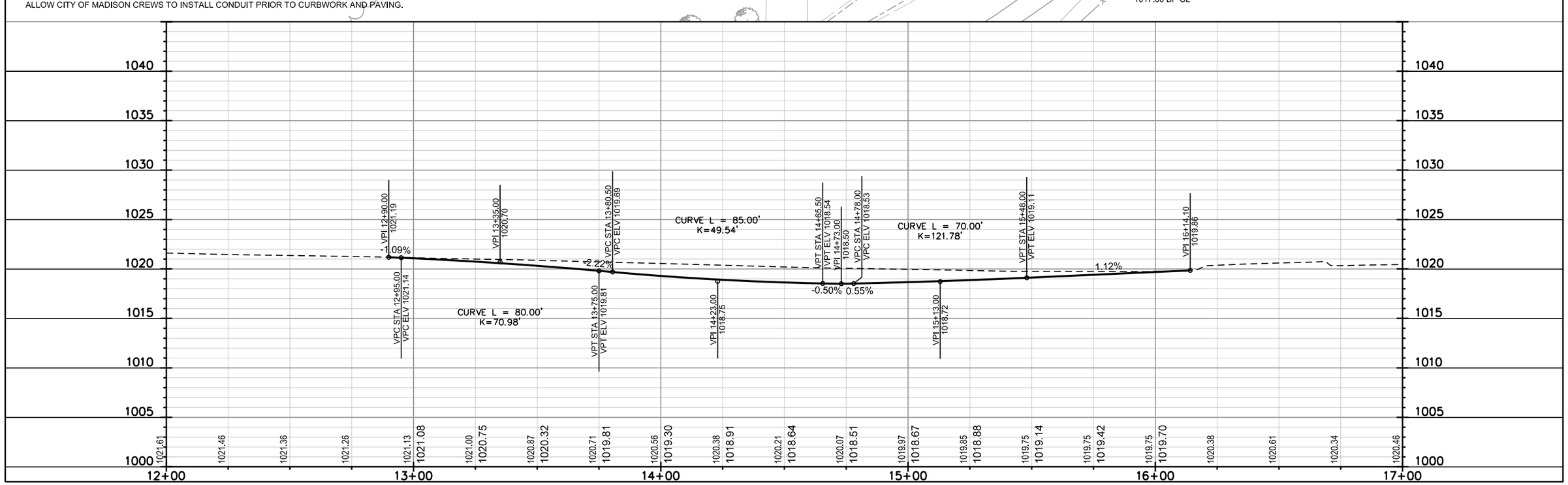
STA 15+90.58, RT 64.26'
1018.23 BP CL

STA 15+82.74, RT 72.64'
1017.66 BP CL

ASPHALT PATH
3" HMA 4 LT 58-28 S
8" GRAD 2 BASE

Trees / Brush
Wood Fence
Drainage Ditch
Conc. Wall
concrete walk
Walk Signal
Walk Signal Pole
Top nut
1023.77

ELECTRICAL NOTES:
1. CONTACT MIKE BENZSCHAWEL (266-9031) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 48-HOURS IN ADVANCE OF NEEDING TRAFFIC SIGNAL AND STREET LIGHTING EQUIPMENT MOVED OR REMOVED.
   1.1 RECTANGULAR RAPID FLASHING BEACON AT STRUCK ST. - SCHROEDER ST. WILL NEED TO BE REMOVED BY CITY OF MADISON CREWS.
   1.2 CONTRACTOR SHALL PROTECT CONCRETE BASES FROM DAMAGE AFTER REMOVAL OF SIGNS AND POLE.
   1.3 STREET LIGHT CABLES ON NORTHWEST CORNER OF STRUCK ST. - SCHROEDER ST. WILL NEED TO BE TEMPORARILY PLACED OVERHEAD BY CITY OF MADISON CREWS.
2. CONTACT MIKE BENZSCHAWEL (266-9031) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 48-HOURS IN ADVANCE OF INSTALLING CONCRETE CURB AT THE STRUCK ST. - SCHROEDER ST. INTERSECTION TO ALLOW CITY OF MADISON CREWS TO INSTALL CONDUIT PRIOR TO CURBWORK AND PAVING.



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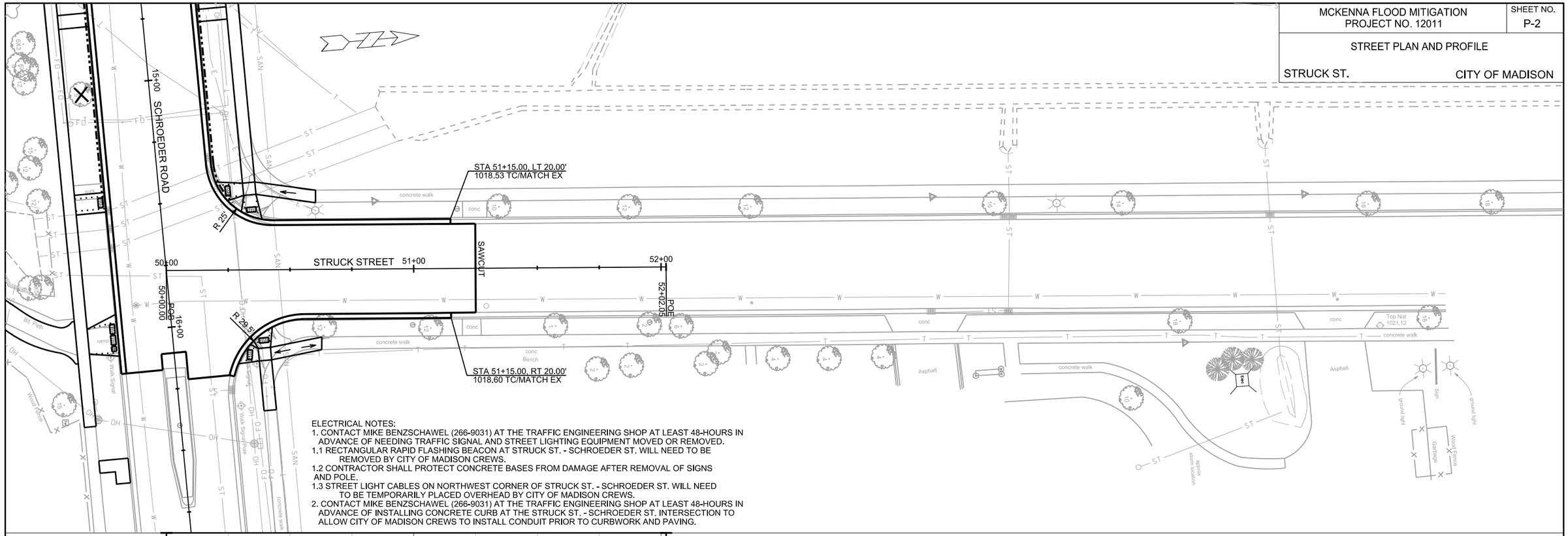
DATE: 3/23/2020

MCKENNA FLOOD MITIGATION PROJECT NO. 12011	SHEET NO. P-2
STREET PLAN AND PROFILE	
STRUCK ST.	CITY OF MADISON



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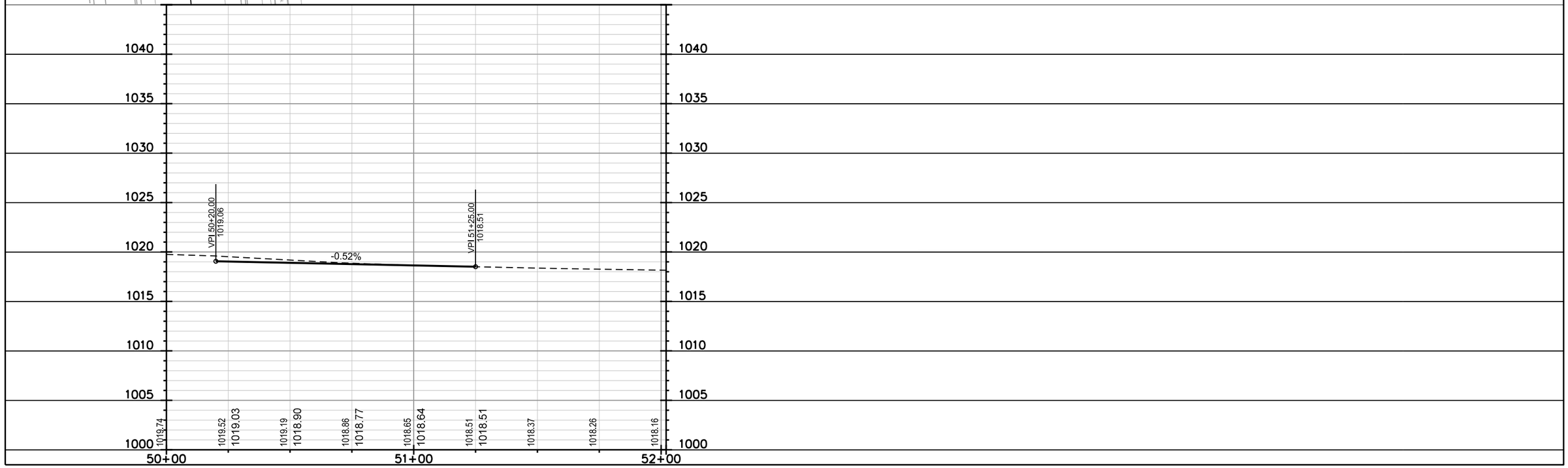


PLOT SCALE: ____
PLOT NAME: ____
REV. DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12011\Streets\Design\12011EN-PnPStruck.dgn

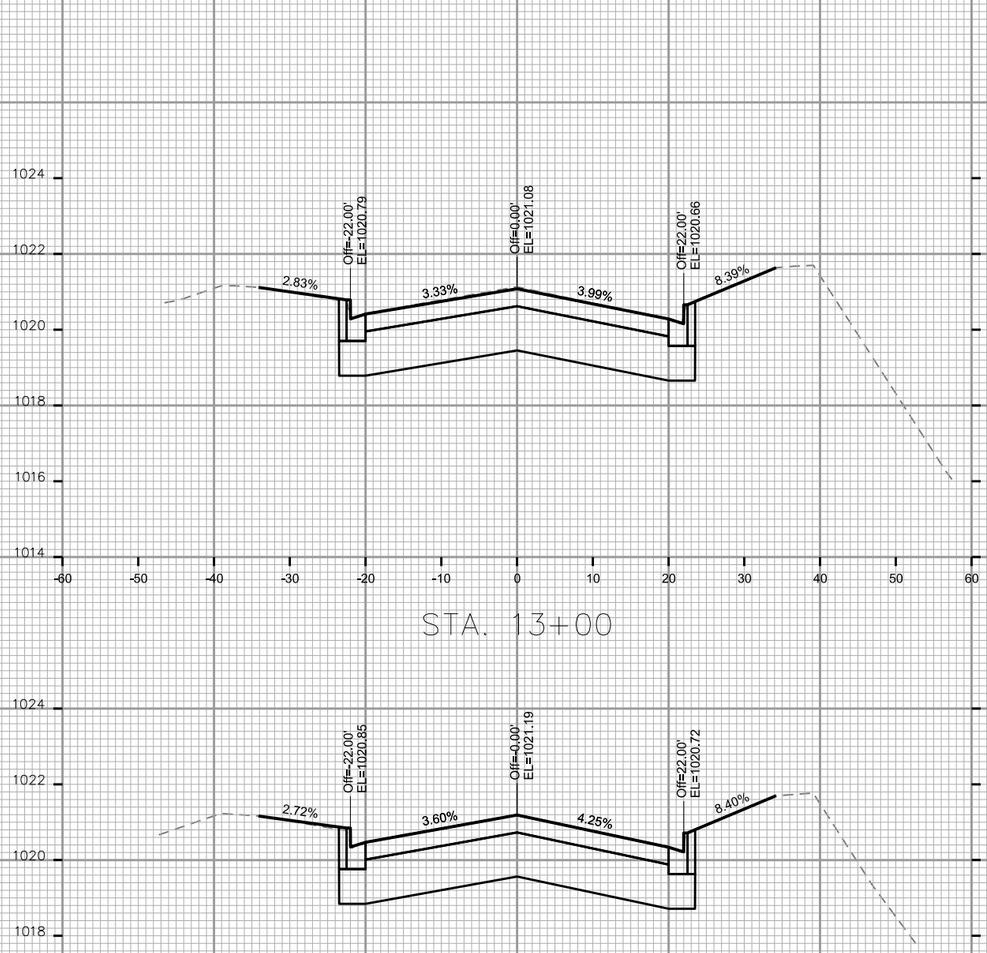
DATE: 3/24/2020

MCKENNA FLOOD MITIGATION PH.2
PROJECT NO. 12746

SHEET NO.
X-1

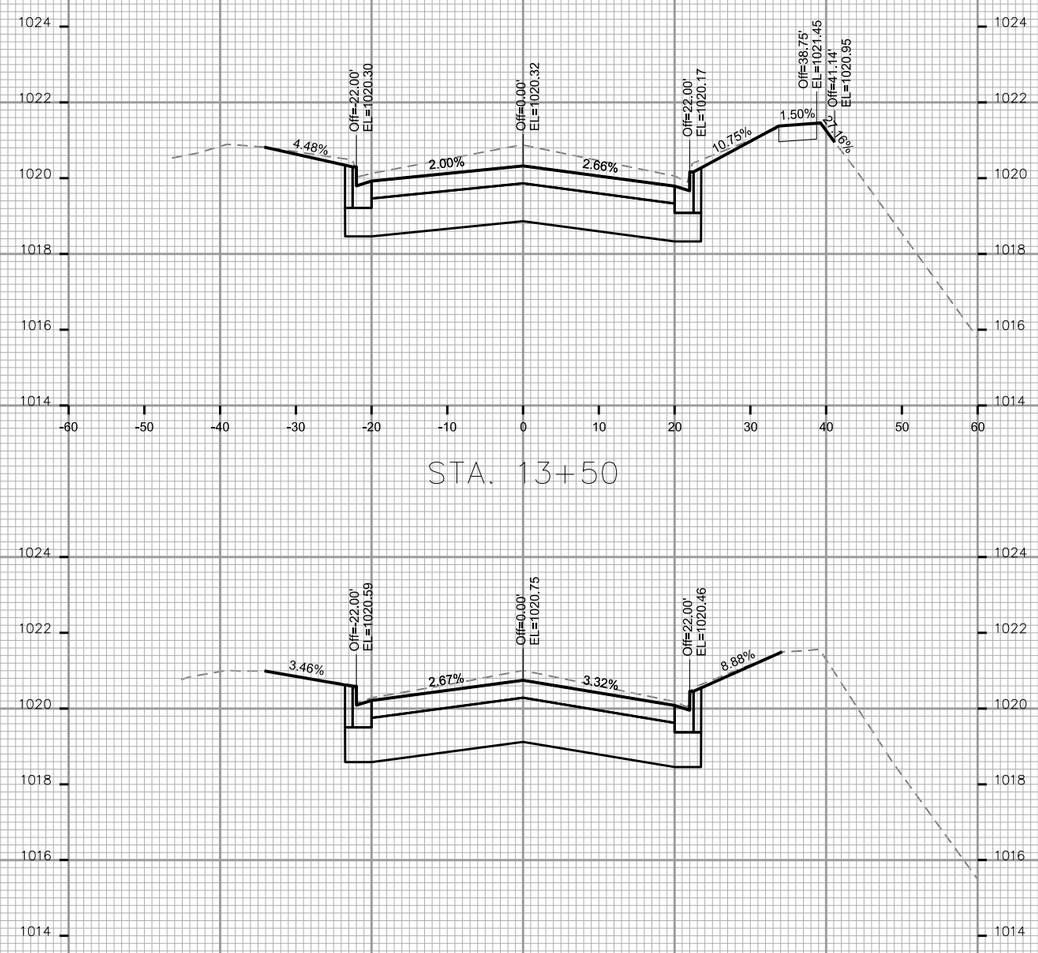
CROSS SECTIONS

SCHROEDER RD. CITY OF MADISON



STA. 13+00

STA. 12+90



STA. 13+50

STA. 13+25

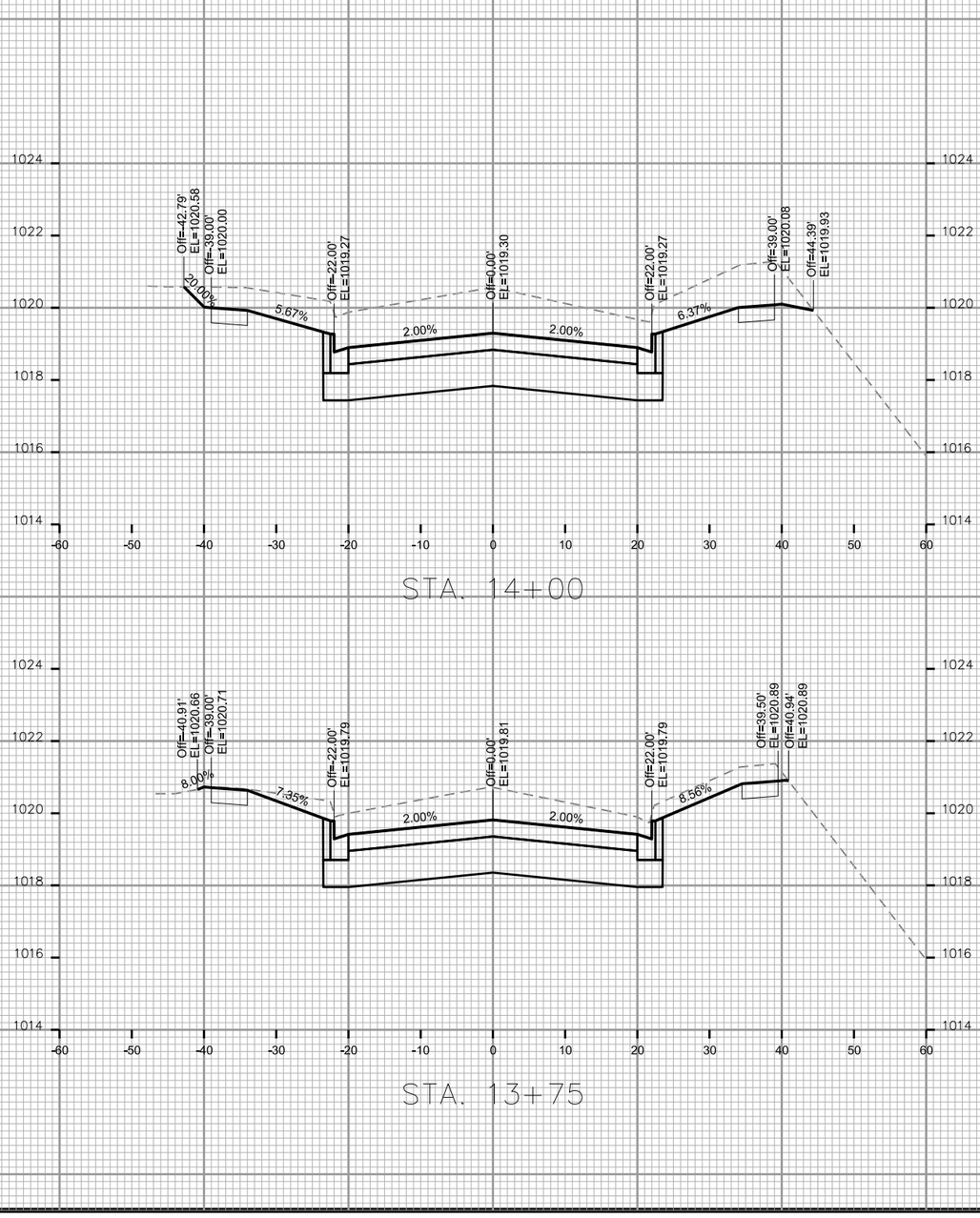
FT
FT

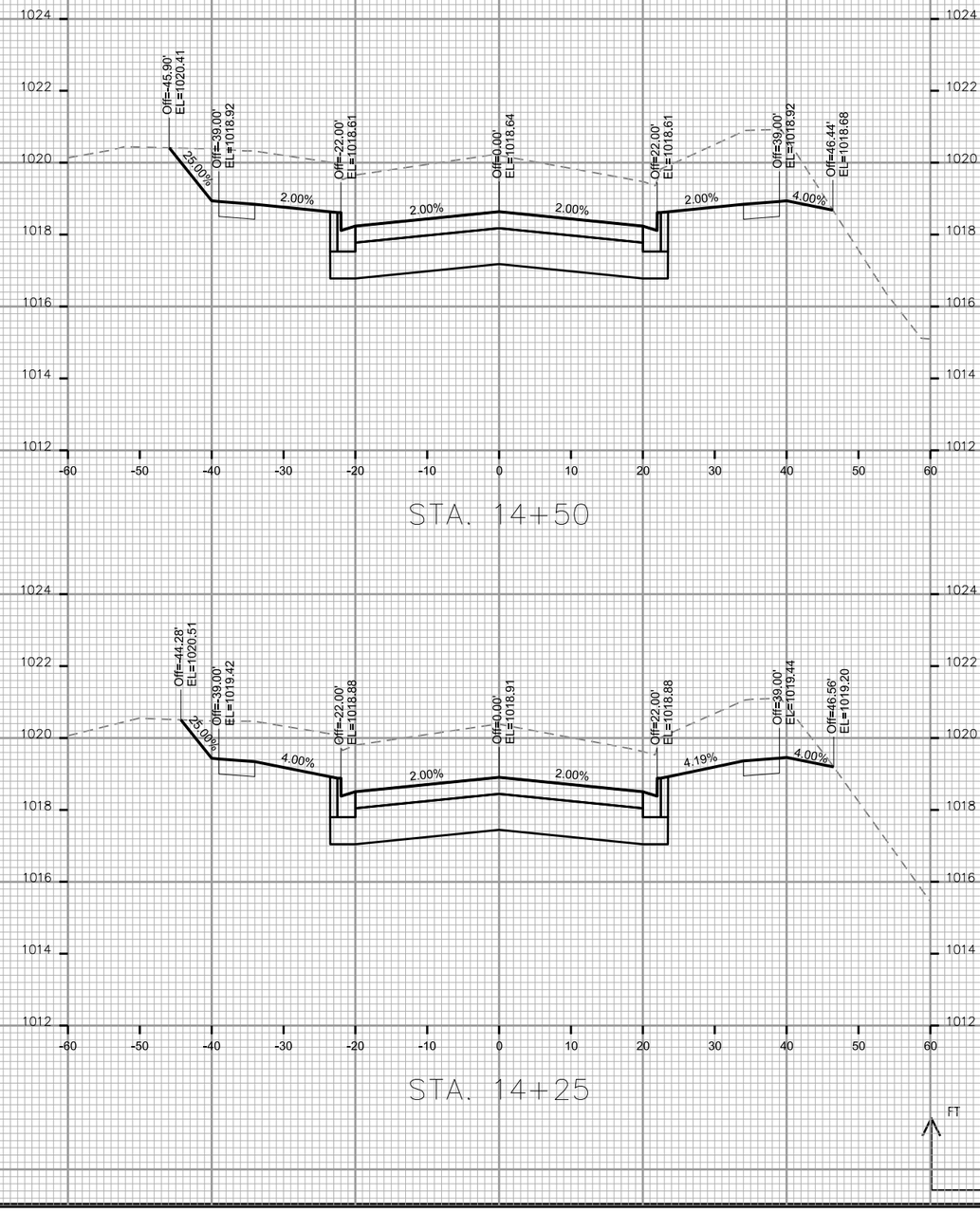
PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12011\Streets\Design\12011EN-Xsection.dgn

DATE: 3/23/2020

MCKENNA FLOOD MITIGATION PH.2 PROJECT NO. 12746	SHEET NO. X-2
CROSS SECTIONS	
SCHROEDER RD.	CITY OF MADISON





PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12011\Streets\Design\12011EN-Xsection.dgn

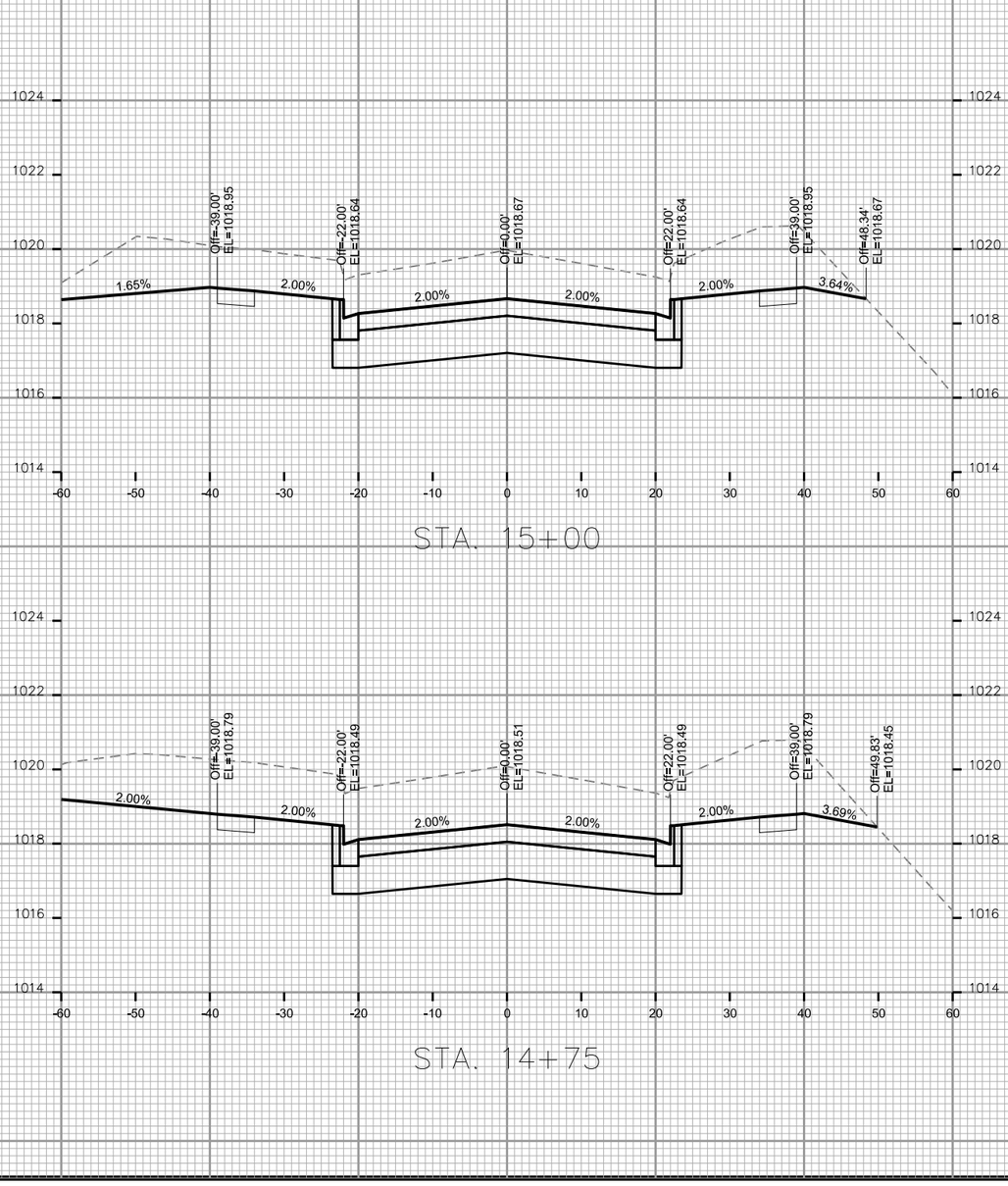
DATE: 3/23/2020

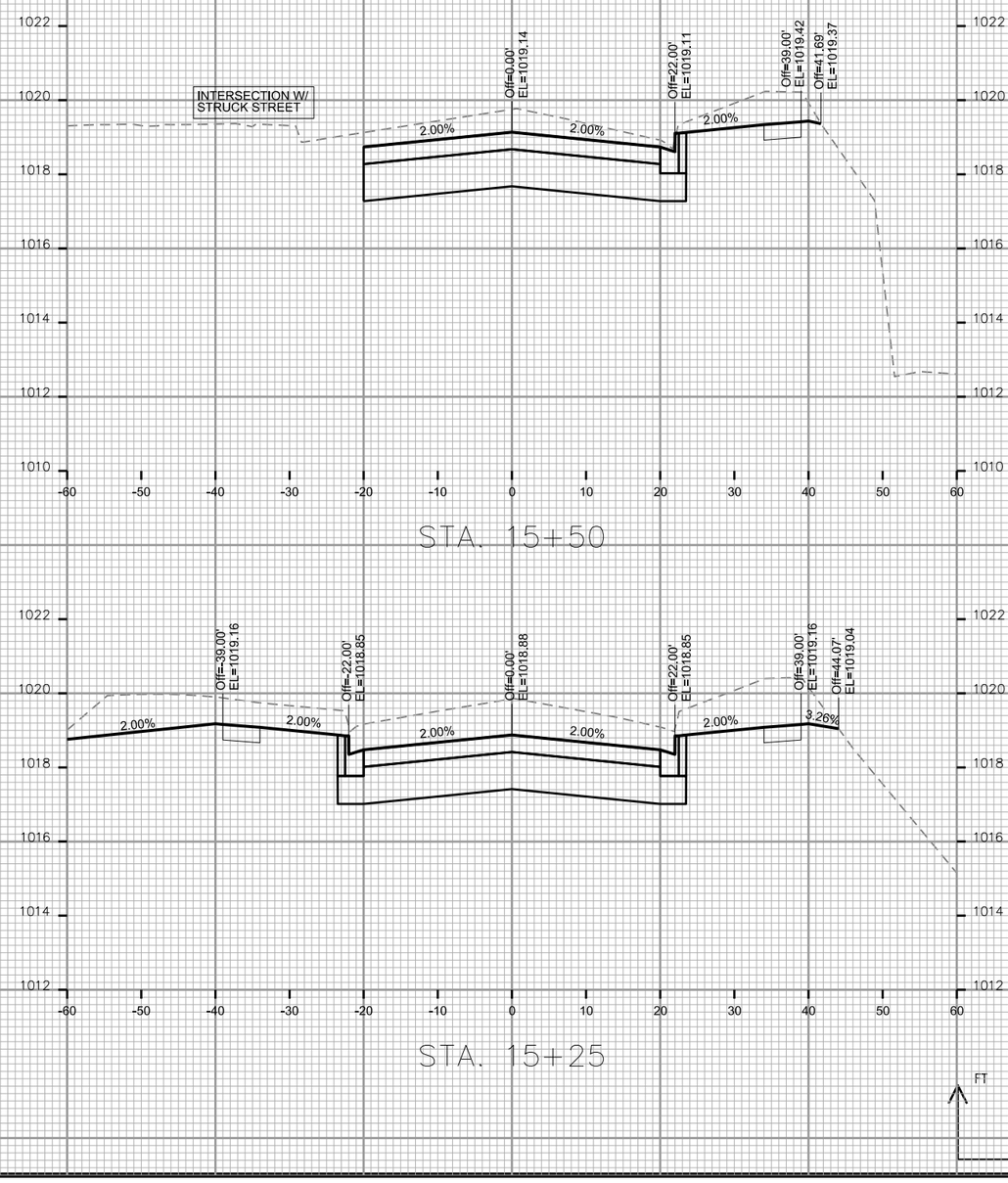
MCKENNA FLOOD MITIGATION PH.2
PROJECT NO. 12746

SHEET NO.
X-3

CROSS SECTIONS

SCHROEDER RD. CITY OF MADISON





FT
FT

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12011\Streets\Design\12011EN-Xsection.dgn

DATE: 3/23/2020

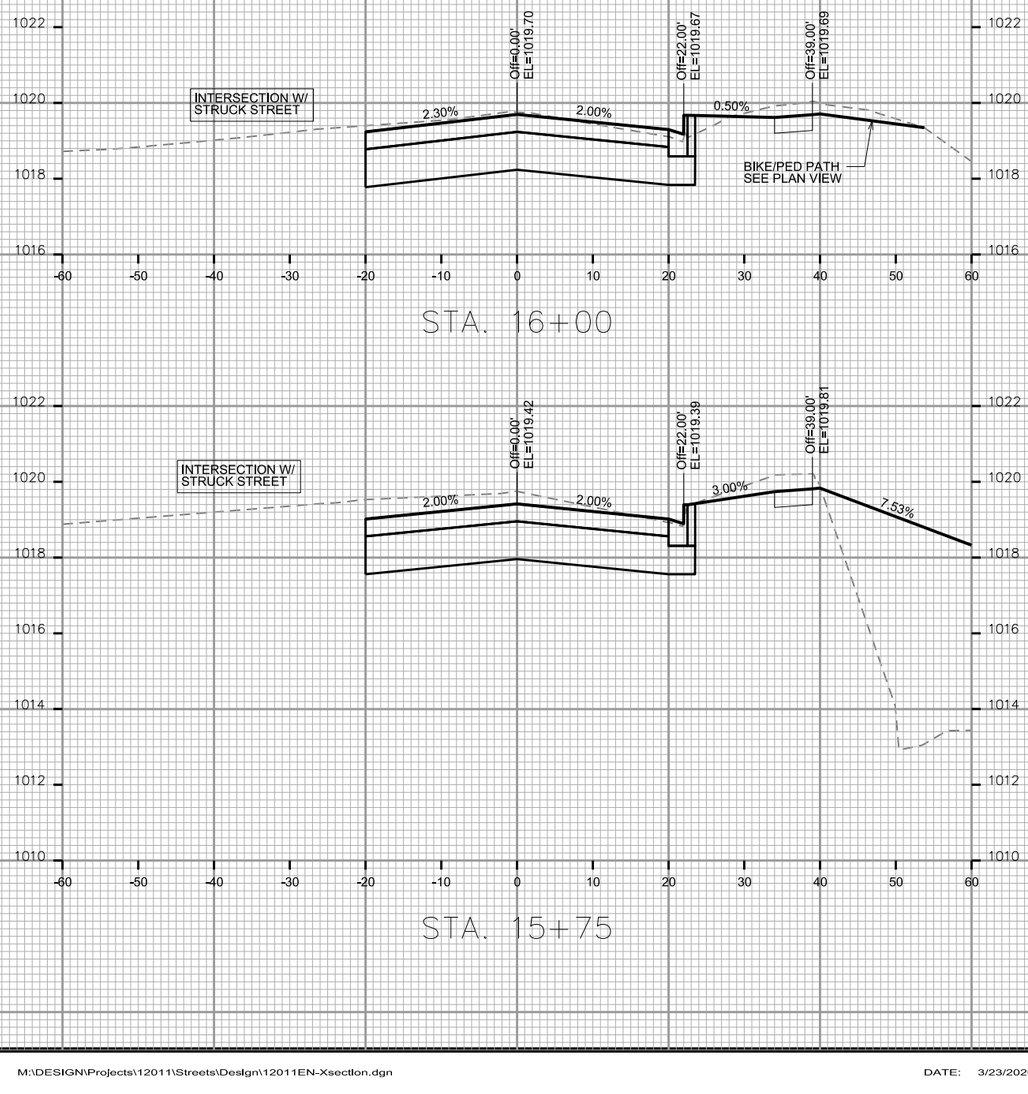
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

MCKENNA FLOOD MITIGATION PH.2 PROJECT NO. 12746	SHEET NO. X-4
CROSS SECTIONS	
SCHROEDER RD.	CITY OF MADISON



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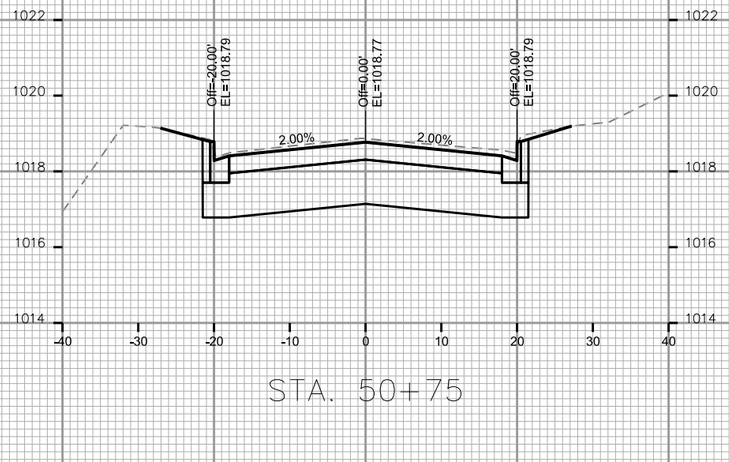
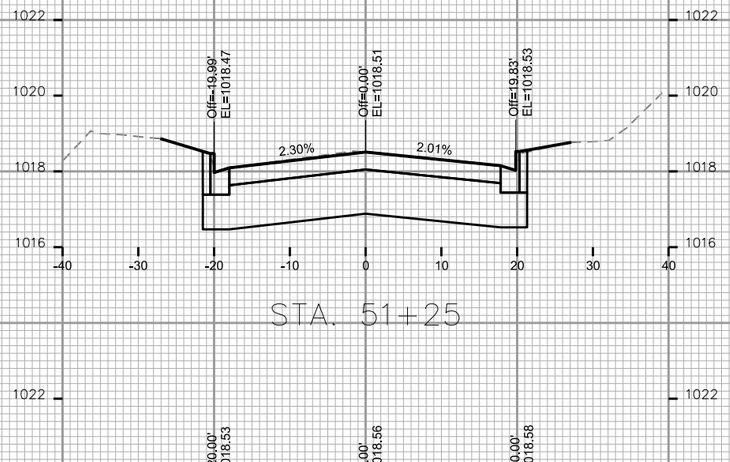
DATE: 3/23/2020

MCKENNA FLOOD MITIGATION PH.2 PROJECT NO. 12746	SHEET NO. X-5
CROSS SECTIONS	
STRUCK ST.	CITY OF MADISON



STA. 50+75



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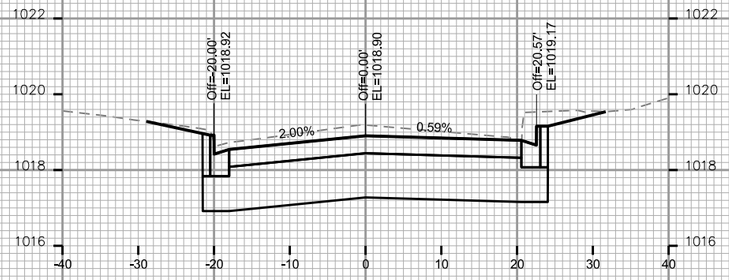
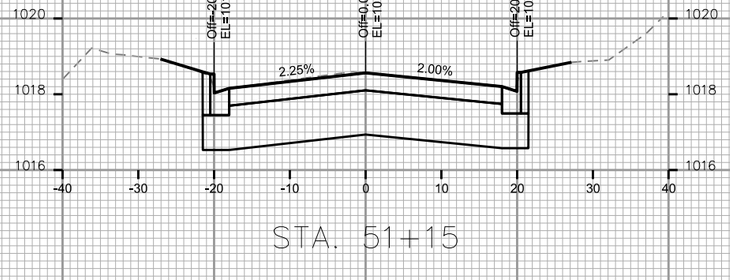


STA. 50+50



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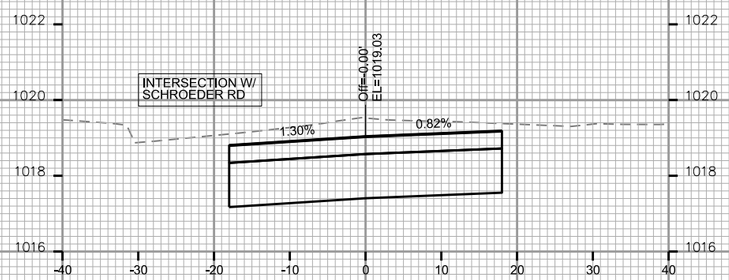
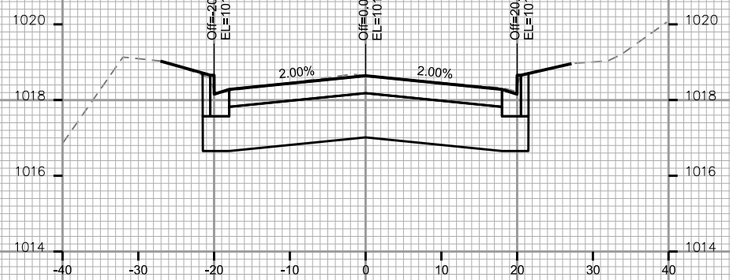


STA. 50+25



STA. 51+00

FT

FT

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

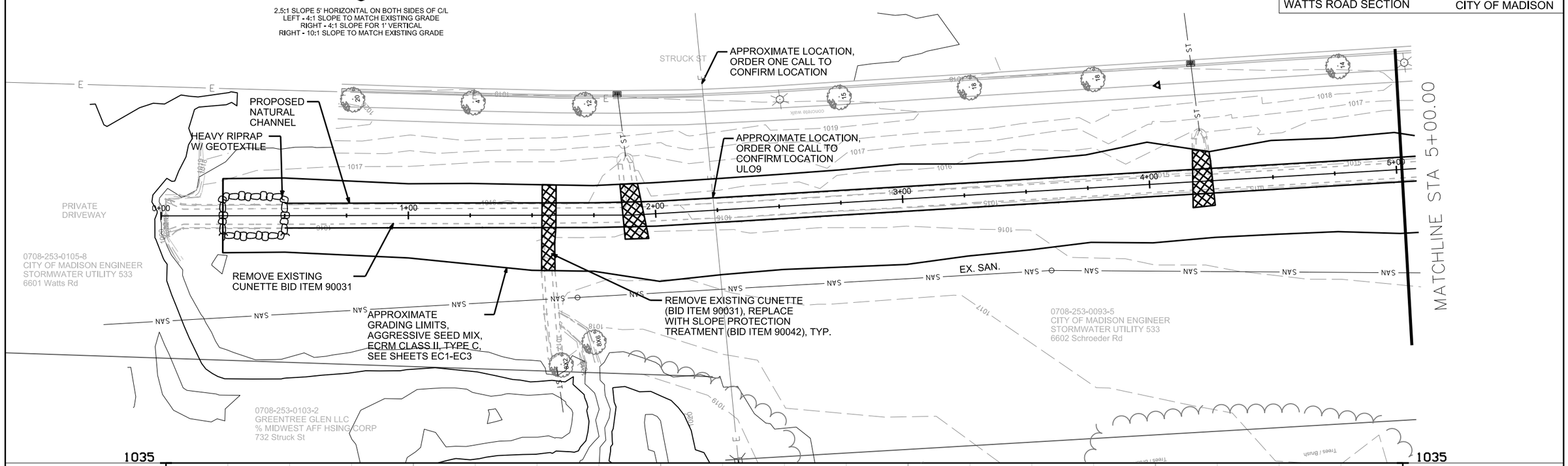
FILE NAME: M:\DESIGN\Projects\12011\Streets\Design\12011EN-Xsection.dgn

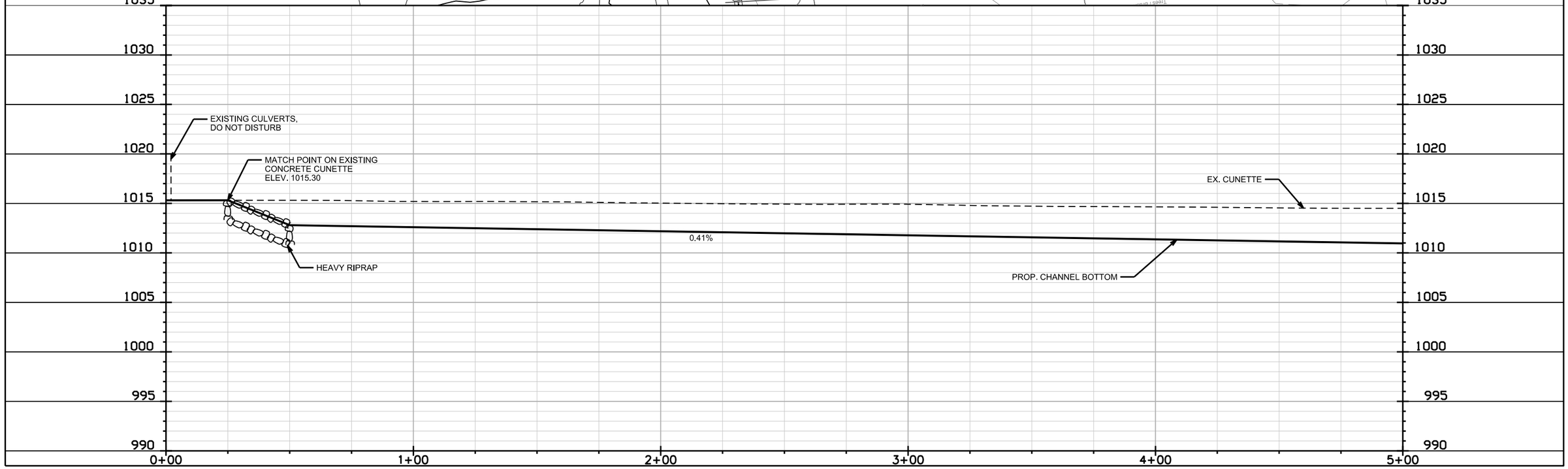
DATE: 3/23/2020

MCKENNA FLOOD MITIGATION PROJECT NO. 12746	SHEET NO. U-1
PLAN AND PROFILE	
WATTS ROAD SECTION	CITY OF MADISON

TYPICAL CHANNEL CROSS SECTION
STA'S 0+50 - 7+35
(LOOKING UPSTATION)

2.5:1 SLOPE 5' HORIZONTAL ON BOTH SIDES OF C/L
LEFT - 4:1 SLOPE TO MATCH EXISTING GRADE
RIGHT - 4:1 SLOPE FOR 1' VERTICAL
RIGHT - 10:1 SLOPE TO MATCH EXISTING GRADE





PLOT SCALE: ——
PLOT NAME: ——
REV. DATE: ——
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12011\Storm\Design\12011STM-PnP##5.dgn

DATE: 3/26/2020

MCKENNA FLOOD MITIGATION PROJECT NO. 12746	SHEET NO. U-2
PLAN AND PROFILE	
WATTS ROAD SECTION	CITY OF MADISON

PLOT SCALE: ——
PLOT NAME: ——
REV. DATE: ——
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0708-253-0209-8
PRAIRIE PK HRMNY HSNG LLC
% GREYSTONE & CO INC
6530 Schroeder Rd

0708-253-0208-0
S AND J WISCONSIN
PROPERTIES LLC
6550 Schroeder Rd

Struck Street

STRUCK STREET 51+00

STRUCK ST

MATCHLINE STA 5+00.00

MATCHLINE STA 10+00.00

PROPOSED CHANNEL

REMOVE EXISTING
CUNETTE BID ITEM 90031

APPROXIMATE
GRADING LIMITS,
AGGRESSIVE SEED MIX,
ECRM CLASS II, TYPE C,
SEE SHEETS EC1-EC3

REMOVE EXISTING
CUNETTE (BID ITEM
90031), REPLACE WITH
SLOPE PROTECTION
TREATMENT (BID
ITEM 90042), TYP.

HEAVY RIPRAP
W/ GEOTEXTILE

RCBC

INSTALL RAILING
ALONG HEADWALL
AND WINGWALL,
PER BID ITEM 90041

PLACE MARKER BALL

REMOVE RETAINING WALL
(BID ITEM 90033) AND RE-GRADE

APPROXIMATE
GRADING LIMITS,
AGGRESSIVE SEED MIX,
ECRM CLASS II, TYPE C,
SEE SHEETS EC1-EC3

INSTALL RAILING
ALONG HEADWALL
AND WINGWALL,
PER BID ITEM 90041

0708-253-0093-5
CITY OF MADISON ENGINEER
STORMWATER UTILITY 533
6602 Schroeder Rd

0708-362-0302-9
CITY OF MADISON ENGINEER
GREENTREE LANDFILL 537
6802 Hammersley Rd

EX. SAN.

ULO1 ULO2 ULO3 ULO4 ULO5 ULO6 ULO7 ULO8

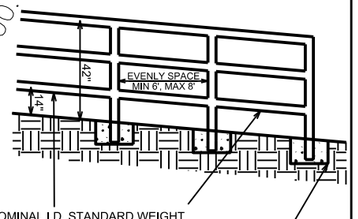
R-1 R-2 R-3 R-4 R-5 R-6 R-7 R-8 R-9 R-10 R-11
RP-1 RP-2 RP-3 RP-4
P-1 P-2 P-3 P-4 P-5 P-6 P-7
S-1 S-2 S-3 S-4 S-5 S-6 S-7
T-1 T-2 T-3

RAILING DETAILS

GENERAL RAILING NOTES:

ALL PIPES SHALL BE CUT TO FIT AND JOINTS SHALL BE WELDED CONTINUOUSLY AROUND THE PERIMETER TO ASSURE A BURR FREE AND STRUCTURALLY SOUND CONNECTION.

IF ON A SLOPE, THE POSTS SHOULD REMAIN VERTICAL AND THE RAILS SLOPED WITH THE WINGWALL (SEE BID ITEM 90041)



2½" NOMINAL I.D. STANDARD WEIGHT
STRUCTURAL STEEL TUBING
EXACT DIMENSIONS:
I.D. = 2.469"/ O.D. = 2.875"

CONCRETE AROUND
EMBEDDED POST
MIN DEPTH - 14"; MIN DIA - 18"
4" OF TOPSOIL ABOVE CONC

EX. CUNETTE
PROP. CUNETTE
HEAVY RIPRAP
0.41%
2 - RCBC
INV. EL.
1012.0
INV. EL.
1010.8

1030 1025 1020 1015 1010 1005 1000 995 990 985

5+00 6+00 7+00 8+00 9+00 10+00

FILE NAME: M:\DESIGN\Projects\12011\Storm\Design\12011STM-PnP###6.dgn

DATE: 3/26/2020

MCKENNA FLOOD MITIGATION PROJECT NO. 12746	SHEET NO. U-3
PLAN AND PROFILE	
SCHROEDER ROAD SECTION CITY OF MADISON	

CONTACT RAY SCHNEIDER (MMSD) AT LEAST FIVE (5) DAYS BEFORE EXCAVATING OVER MMSD 30" RCP SANITARY MAIN RAYS@MADSEWER.ORG OR 608-347-3628

PLACE SLOPE PROTECTION TREATMENT (BID ITEM 90042)

EX. MMSD 30" RCP SAN

MATCHLINE STA 10+00.00

WETLAND DELINEATION: W1

EXISTING CHANNEL

REMOVE TREES FOR GRADING (REPLACE OUTSIDE OF GRADED AREA)

HEAVY RIPRAP W/ GEOTEXTILE

APPROXIMATE GRADING LIMITS, AGGRESSIVE SEED MIX, ECRM CLASS II, TYPE C, SEE SHEETS EC1-EC3

APPROXIMATE DISTURBED AREA FOR SITE ACCESS; RE-GRADE, SEED, AND MAT DURING SITE RESTORATION, SEE SHEETS EC1-EC3

WETLAND DELINEATION: WATERWAY

KEEP TREE, DO NOT DISTURB

PROPOSED CHANNEL

WETLAND DELINEATION: W3

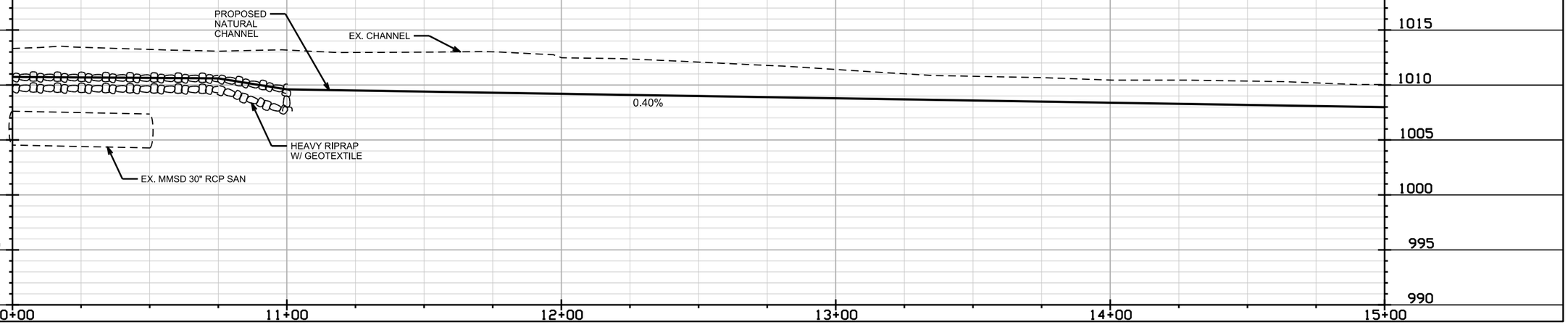
KEEP TREE, DO NOT DISTURB

KEEP TREE, DO NOT DISTURB

KEEP TREE, DO NOT DISTURB

KEEP TREE, DO NOT DISTURB

MATCHLINE STA 15+00.00



PLOT SCALE: ——

PLOT NAME: ——

REV. DATE: ——

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

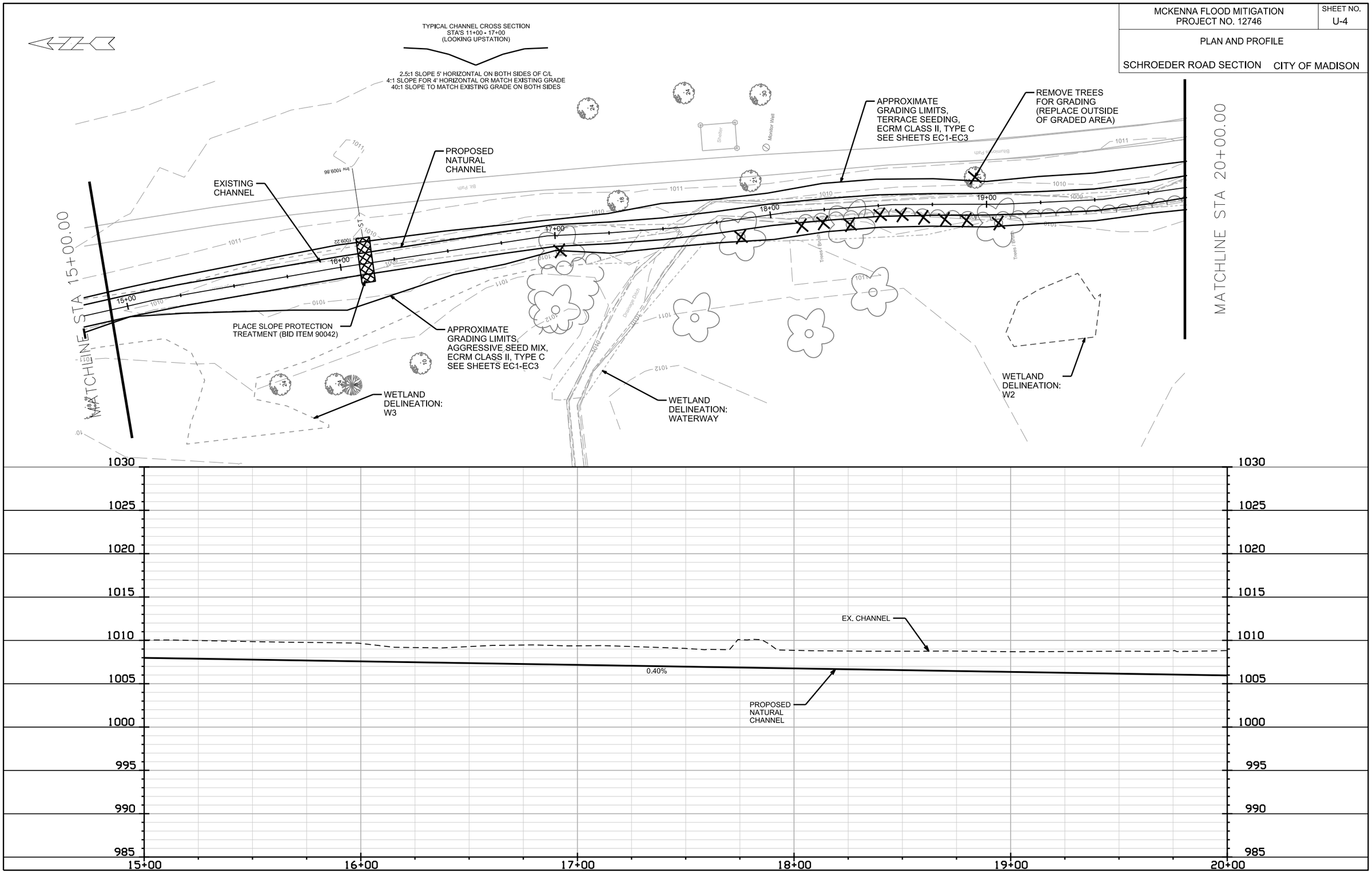
FILE NAME: M:\DESIGN\Projects\12011\Storm\Design\12011STM-PnP##7.dgn

DATE: 3/26/2020

MCKENNA FLOOD MITIGATION PROJECT NO. 12746	SHEET NO. U-4
PLAN AND PROFILE	
SCHROEDER ROAD SECTION CITY OF MADISON	

TYPICAL CHANNEL CROSS SECTION
STA'S 11+00 - 17+00
(LOOKING UPSTATION)

2.5:1 SLOPE 5' HORIZONTAL ON BOTH SIDES OF C/L
4:1 SLOPE FOR 4' HORIZONTAL OR MATCH EXISTING GRADE
40:1 SLOPE TO MATCH EXISTING GRADE ON BOTH SIDES



PLOT SCALE: ——
PLOT NAME: ——
REV. DATE: ——
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12011\Storm\Design\12011STM-PnP###8.dgn

DATE: 3/26/2020

MCKENNA FLOOD MITIGATION PROJECT NO. 12746	SHEET NO. U-5
PLAN AND PROFILE	
SCHROEDER ROAD SECTION CITY OF MADISON	

TYPICAL CHANNEL CROSS SECTION
STA'S 18+00 - 23+35
(LOOKING UPSTATION)

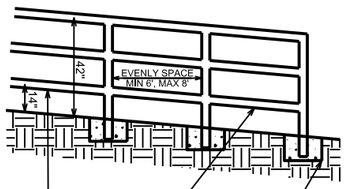
2.5:1 SLOPE 7.5' HORIZONTAL ON BOTH SIDES OF C/L
4:1 SLOPE TO MATCH EXISTING GRADE ON BOTH SIDES

RAILING DETAILS

GENERAL RAILING NOTES:

ALL PIPES SHALL BE CUT TO FIT AND JOINTS SHALL BE WELDED CONTINUOUSLY AROUND THE PERIMETER TO ASSURE A BURR FREE AND STRUCTURALLY SOUND CONNECTION.

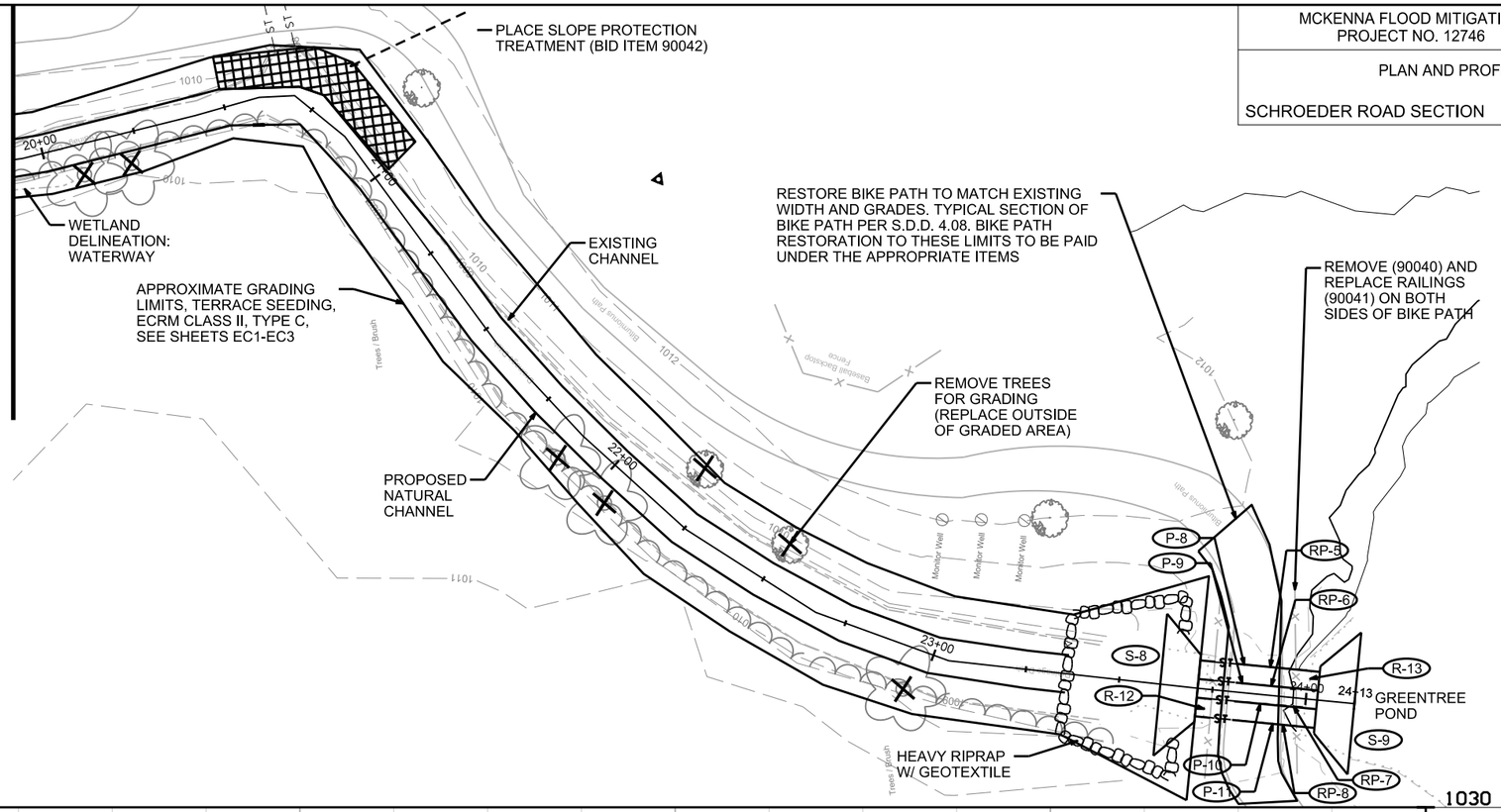
IF ON A SLOPE, THE POSTS SHOULD REMAIN VERTICAL AND THE RAILS SLOPED WITH THE WINGWALL (SEE BID ITEM 90041)

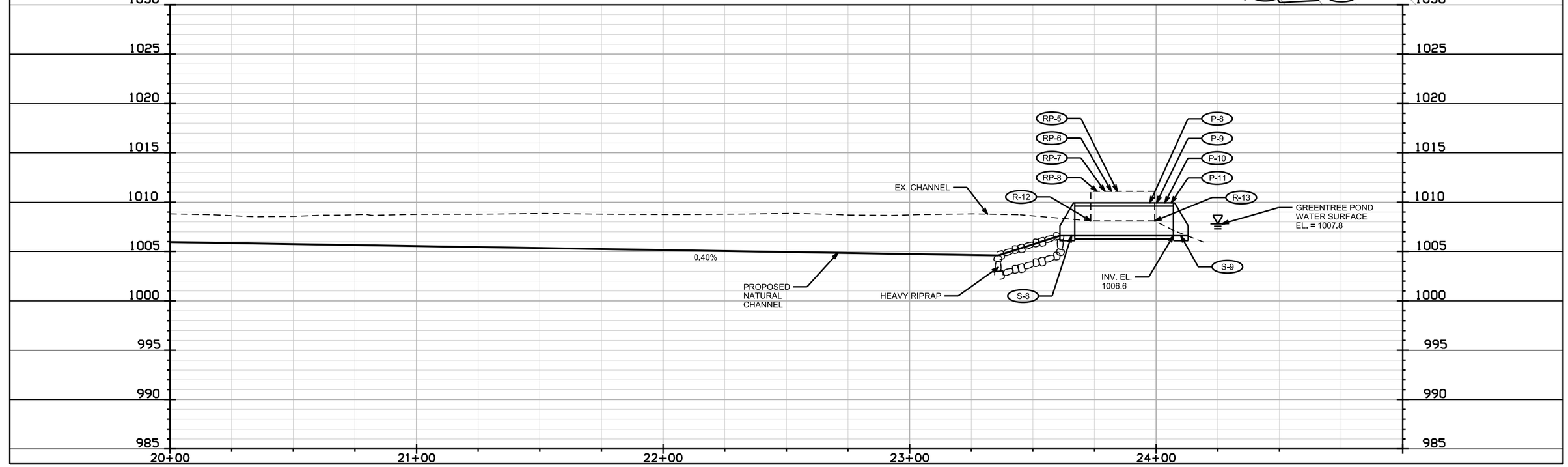


2½" NOMINAL I.D. STANDARD WEIGHT
STRUCTURAL STEEL TUBING
EXACT DIMENSIONS:
I.D. = 2.469"/ O.D. = 2.875"

CONCRETE AROUND
EMBEDDED POST
MIN DEPTH - 14"; MIN DIA - 18"
4" OF TOPSOIL ABOVE CONC

MATCHLINE STA 20+00.00





PLOT SCALE: ——
PLOT NAME: ——
REV. DATE: ——
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12011\Storm\Design\12011STM-PnP###9.dgn

DATE: 3/26/2020

STORM SEWER SCHEDULE

MCKENNA FLOOD MITIGATION PHASE 2	SHEET NO.
PROJECT NO. 12746	U-6
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
SCHROEDER ROAD							
S-1	7+70.84	CL	RCBC WINGWALL	-	1012.00	-	[1]; [2]
S-2	8+57.07	RT-16.8	H INLET	1018.53	1013.71	4.82	R-3067-7004-V
S-3	8+59.01	RT-25.6	H INLET	1018.48	1013.96	4.52	LP; w/ R-3067-7004-V
S-4	8+99.10	RT-16.6	TYPE II TERRACE INLET	1018.48	1012.10	6.38	[3]; LP; FP
S-5	9+04.89	LT-88.1	COLLAR	-	1012.94	-	-
S-6	9+15.73	LT-89.9	6X6 AS	1018.75	1012.87	5.88	FP
S-7	9+53.54	CL	RCBC WINGWALL	-	1010.80	-	[1]; [2]
GREENWAY							
S-8	23+71.03	CL	RCBC WINGWALL	-	1006.30	-	[1]
S-9	24+03.03	CL	RCBC WINGWALL	-	1006.30	-	[1]

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
SCHROEDER ROAD										
P-1	S-7	S-1	1010.80	1012.00	186.4	186.4	0.64%	8'X4'	RCBC	[4]
P-2	S-7	S-1	1010.80	1012.00	179.0	179.0	0.67%	8'X4'	RCBC	[4]
P-3	P-2	S-2	1013.40	1013.71	8.7	6.2	5.00%	12"	TYPE I	TAP RCBC AT DS END
P-4	S-2	S-3	1013.71	1013.96	8.0	5.0	5.00%	12"	TYPE I	-
P-5	P-2	S-4	1012.00	1012.10	7.8	4.4	2.27%	24"	TYPE I	[5]; TAP RCBC AT DS END
P-6	S-6	S-5	1012.87	1012.94	16.0	13.0	0.54%	48"	TYPE I	-
P-7	S-7	S-6	1010.80	1012.87	87.5	84.5	2.45%	48"	TYPE I	[6]; TAP S-7 AT DS END
GREENWAY										
P-8	S-8	S-9	1006.6	1006.6	32.0	32.0	0.00%	42"	TYPE I	-
P-9	S-8	S-9	1006.6	1006.6	32.0	32.0	0.00%	42"	TYPE I	-
P-10	S-8	S-9	1006.6	1006.6	32.0	32.0	0.00%	42"	TYPE I	-
P-11	S-8	S-9	1006.6	1006.6	32.0	32.0	0.00%	42"	TYPE I	-

STORM STRUCTURE TAPS

STRUC. NO.	STRUC. I.D.	STATION	LOCATION (OFFSET)	E.I.	NOTES
SCHROEDER ROAD					
T-1	P-2	8+55.43	RT-9.7	1012.90	RCBC (P-2)
T-2	P-2	9+00.88	RT-9.7	1012.00	RCBC (P-2)
T-3	S-6	9+16.27	LT-93.7	1014.30	6X6 AS (S-6)

SPECIFIC NOTES

[1] PER S.D.D. 5.5.1A AND 5.5.1B
[2] INSTALL RAILING ON HEADWALL AND WINGWALLS PER BID ITEM 90041
[3] PER S.D.D. 5.7.12A
[4] 8' SPAN X 4' RISE PRECAST RCBC; PER BID ITEM 50501, SPEC, AND SPECIAL PROVISION
[5] INSTALL 24" PIPE GRATE AT OUTLET, PER BID ITEM 90035
[6] INSTALL 48" PIPE GRATE AT OUTLET, PER BID ITEM 90036

STANDARD NOTES:

- KOR N SEAL BOOTS OR EQUIVALENT SHALL BE USED FOR ALL PIPE CONNECTIONS TO INLETS. IN ADDITION, KOR N SEAL BOOTS SHALL BE REQUIRED FOR ANY TYPE II PIPE CONNECTION TO SAS STORM STRUCTURES CONCRETE COLLARS OR KOR N SEAL MAY BE USED FOR ANY RCP OR HERCP CONNECTIONS TO SAS STORM STRUCTURES.
- ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.
-ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.

- 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; RCBC = REINFORCED CONCRETE BOX CULVERT; DS = DOWNSTREAM

- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT MATT OF CITY ENGINEERING AT (608) 266-4058 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO MALLIE@CITYOFMADISON.COM.

STORM SEWER SCHEDULE

MCKENNA FLOOD MITIGATION PHASE 2	SHEET NO.
PROJECT NO. 12746	U-7
STORM SEWER SCHEDULE	
CITY OF MADISON	

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	
SCHROEDER ROAD					
R-1	AE 2861-013	7+69.87	LT-17.1	AE	-
R-2	AE 2861-012	7+75.18	LT-11.0	AE	-
R-3	AE 2861-010	7+80.43	LT-4.3	AE	-
R-4	IN 2861-014	8+45.86	LT-33.0	H INLET	-
R-5	IN 2862-006	8+75.53	LT-73.9	H INLET	-
R-6	IN 2862-005	8+80.08	LT-66.1	H INLET	-
R-7	IN 2862-004	8+81.67	LT-59.0	H INLET	-
R-8	AE 2862-001	9+06.18	LT-88.3	AE	-
R-9	AE 2862-002	9+08.26	LT-81.0	AE	-
R-10	AE 2862-003	9+10.28	LT-73.4	AE	-
R-11	AE 2862-007	9+12.07	LT-66.3	AE	-
GREENWAY					
R-12		23+73.57	CL	WINGWALL	-
R-13		23+99.45	CL	WINGWALL	-

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	PLAN LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	PAY LGTH (FT)	NOTES
SCHROEDER ROAD								
RP-1	R-1	R-8	153.1	48"	RCP	Y	153.1	-
RP-2	R-2	R-10	149.5	48"	RCP	Y	141.7	-
RP-3	R-3	R-11	146.3	48"	RCP	Y	124.5	-
RP-4	R-4	RP-3	3.9	48"	RCP	N	0	-
GREENWAY								
RP-5	R-12	R-13	26.2	42"	CMP	N	0	-
RP-6	R-12	R-13	25.9	42"	CMP	N	0	-
RP-7	R-12	R-13	25.8	42"	CMP	N	0	-
RP-8	R-12	R-13	25.9	42"	CMP	N	0	-

EXISTING UTILITY LINE OPENINGS (ULO)

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
SCHROEDER ROAD					
ULO1	15+08.26	LT-31.4	TEL	1014.77	ANMW-1500 CABLE
ULO2	15+06.18	LT-27.7	ELEC	1017.74	-
ULO3	15+02.70	LT-32.3	TEL	1017.05	ANMW-1500 CABLE
ULO4	14+93.40	LT-0.6	TEL	1016.41	3"-4" PVC
ULO5	14+96.62	RT-31.6	TEL	1015.83	2"-4" PVC
ULO6	14+96.42	RT-32.1	TEL	1018.52	2"-4" PVC
ULO7	14+94.93	RT-35.8	FO	1020.18	-
ULO8	14+88.10	RT-35.5	TEL	1016.93	2"-4" PVC
GREENWAY - WATTS RD. SECTION					
ULO9	2+23.49	LT-5.3	ELEC		(elevation to be provided before pre-construction meeting)

SPECIFIC NOTES

STANDARD NOTES:

- KOR N SEAL BOOTS OR EQUIVALENT SHALL BE USED FOR ALL PIPE CONNECTIONS TO INLETS. IN ADDITION, KOR N SEAL BOOTS SHALL BE REQUIRED FOR ANY TYPE II PIPE CONNECTION TO SAS STORM STRUCTURES CONCRETE COLLARS OR KOR N SEAL MAY BE USED FOR ANY RCP OR HERCP CONNECTIONS TO SAS STORM STRUCTURES.
- ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.

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

- 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; RCBC = REINFORCED CONCRETE BOX CULVERT; DS = DOWNSTREAM

- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT MATT OF CITY ENGINEERING AT (608) 266-4058 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO MALLIE@CITYOFMADISON.COM.

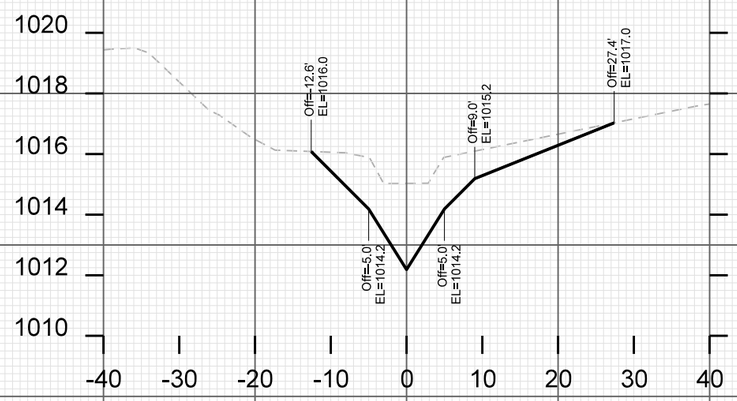
MCKENNA FLOOD MITIGATION PHASE 2
PROJECT NO. 12746

SHEET NO.
C-1

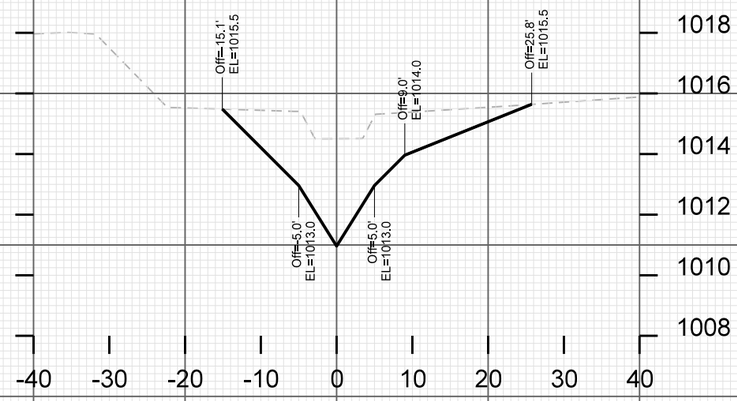
CROSS SECTIONS

WATTS RD. SECTION

CITY OF MADISON



STA. 2+00



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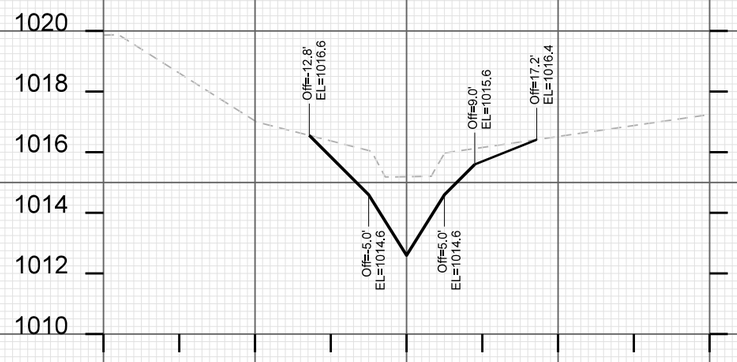
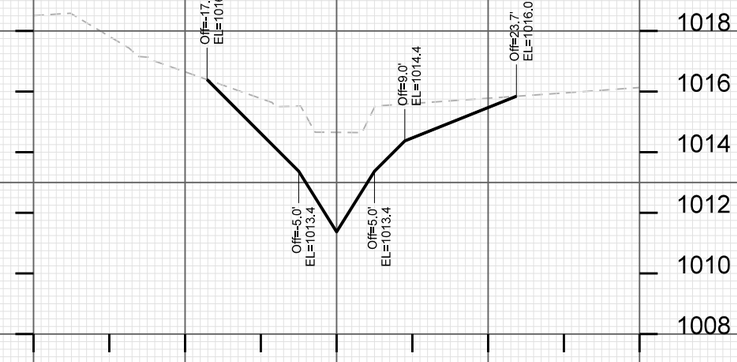


STA. 1+00



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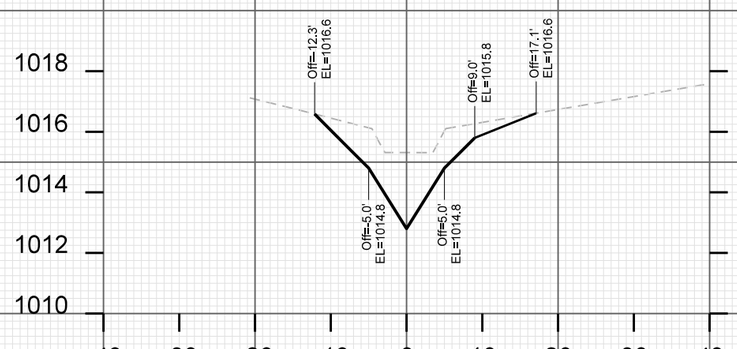

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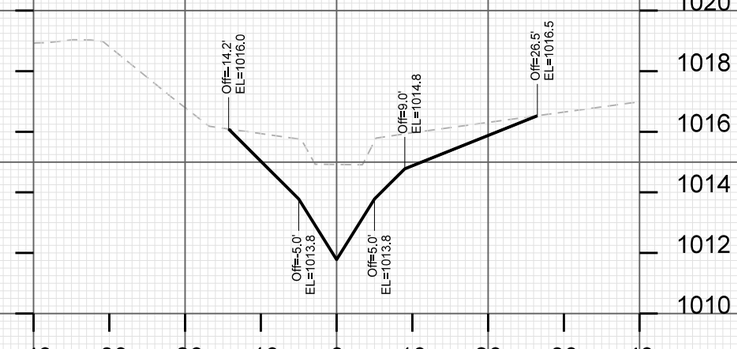


STA. 3+00

FT
FT

PLOT SCALE: ____
PLOT NAME: ____
REV. DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12746\Storm\Design\12746STM-Xsection.dgn

DATE: 3/24/2020

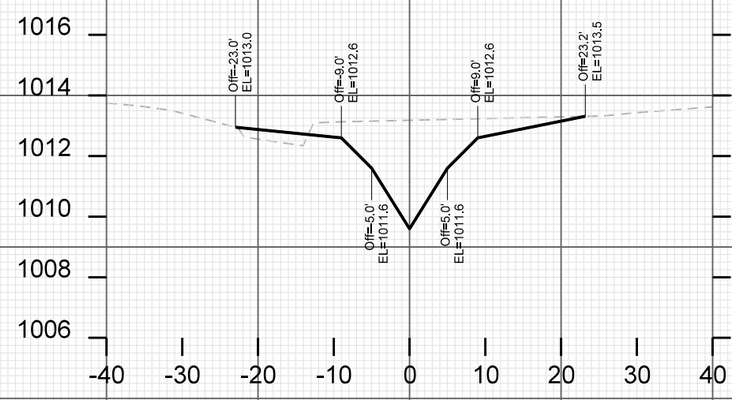
MCKENNA FLOOD MITIGATION PHASE 2
PROJECT NO. 12746

SHEET NO.
C-2

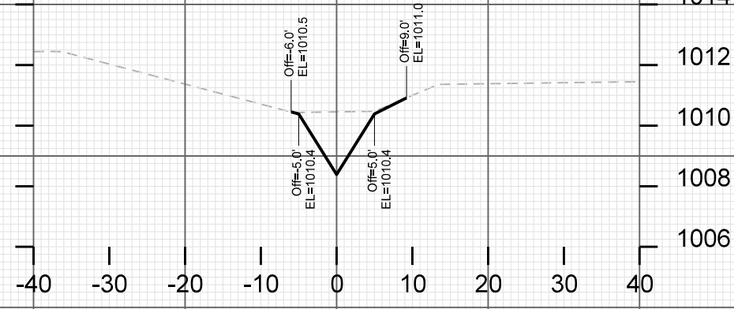
CROSS SECTIONS

WATTS & SCHROEDER
RD. SECTIONS

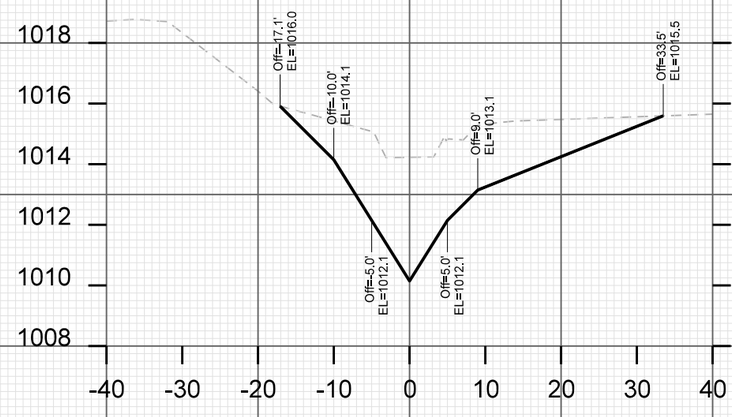
CITY OF MADISON



STA. 11+00



STA. 14+00



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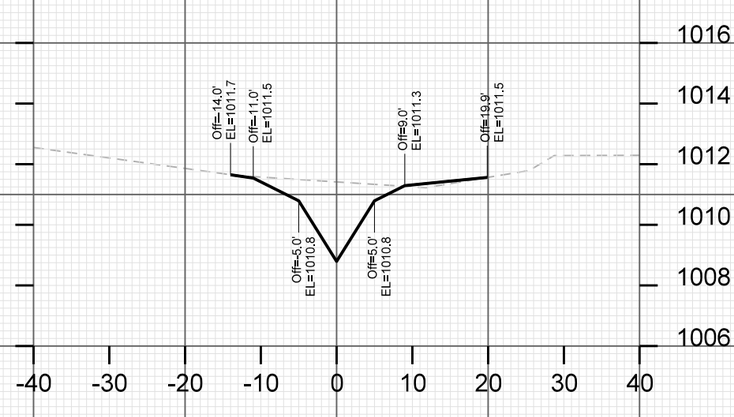
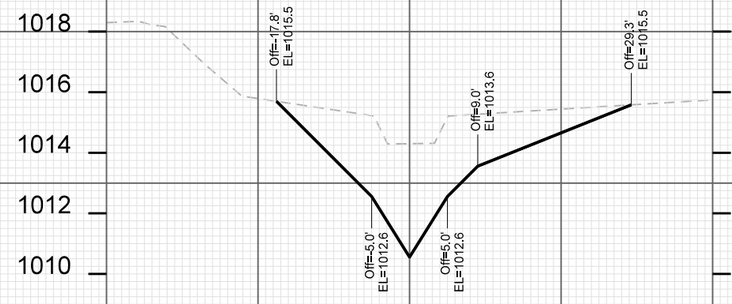
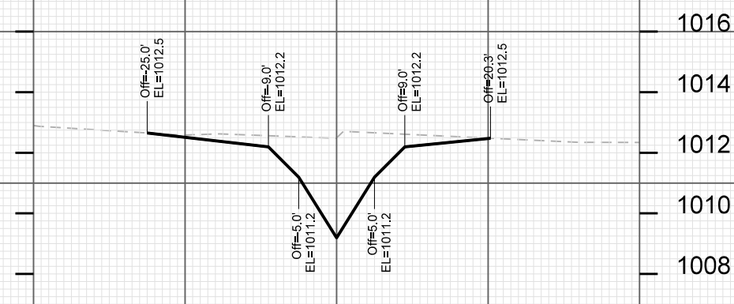


STA. 13+00



STA. 6+00



STA. 12+00

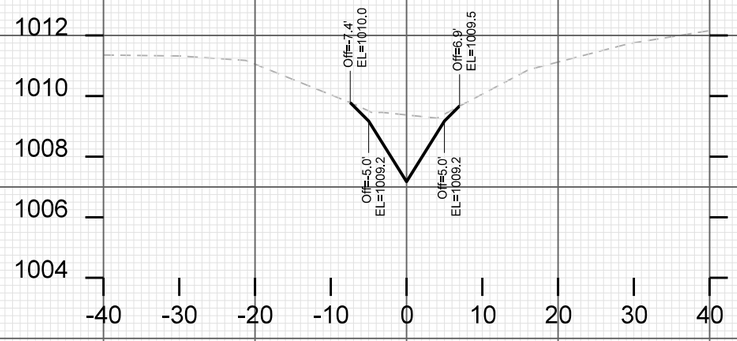
FT
FT

PLOT SCALE: ____
PLOT NAME: ____
REV. DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

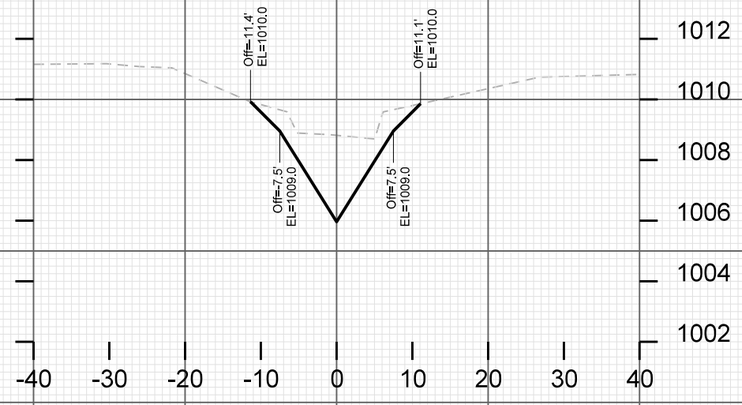
FILE NAME: M:\DESIGN\Projects\12746\Storm\Design\12746STM-Xsection.dgn

DATE: 3/24/2020

MCKENNA FLOOD MITIGATION PHASE 2 PROJECT NO. 12746	SHEET NO. C-3
CROSS SECTIONS	
SCHROEDER RD. SECTION	CITY OF MADISON

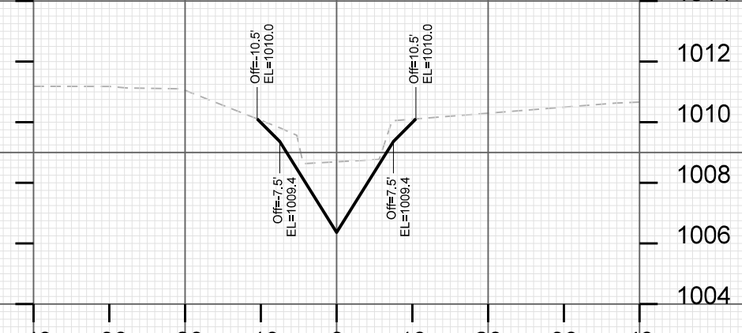


STA. 17+00

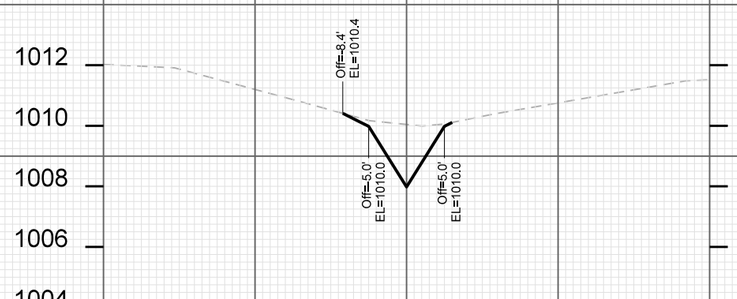


STA. 20+00

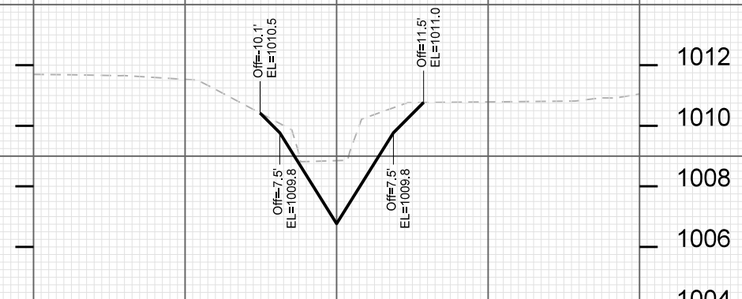
STA. 16+00



STA. 19+00



STA. 15+00



STA. 18+00

FT
FT

PLOT SCALE: ____
PLOT NAME: ____
REV. DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12746\Storm\Design\12746STM-Xsection.dgn

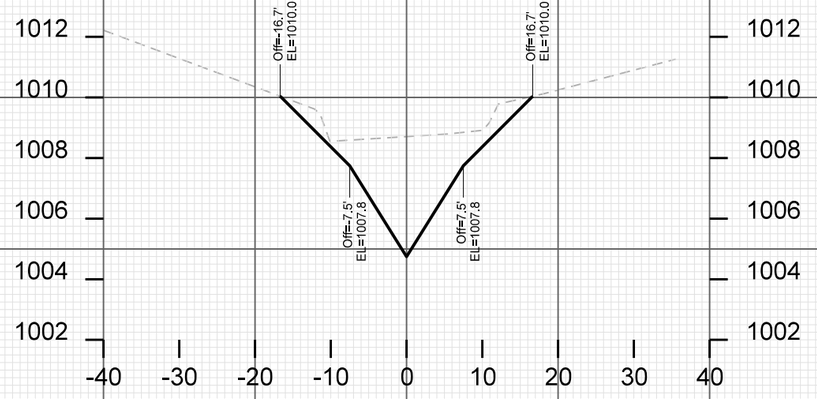
DATE: 3/24/2020

MCKENNA FLOOD MITIGATION PHASE 2
PROJECT NO. 12746

SHEET NO.
C-4

CROSS SECTIONS

SCHROEDER RD. SECTION CITY OF MADISON



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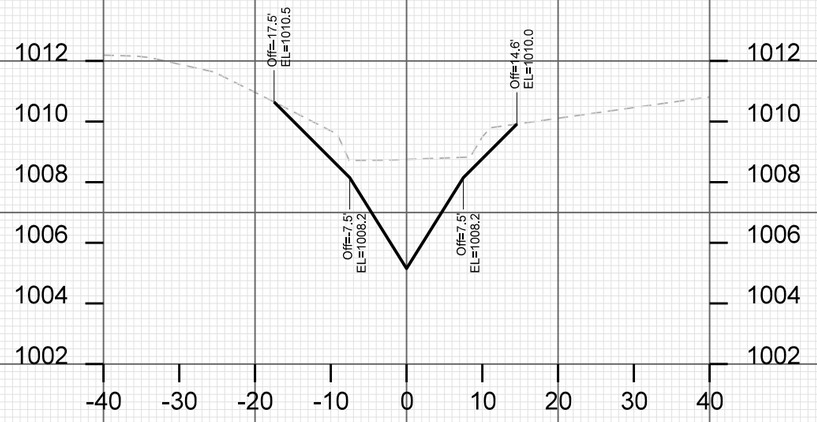
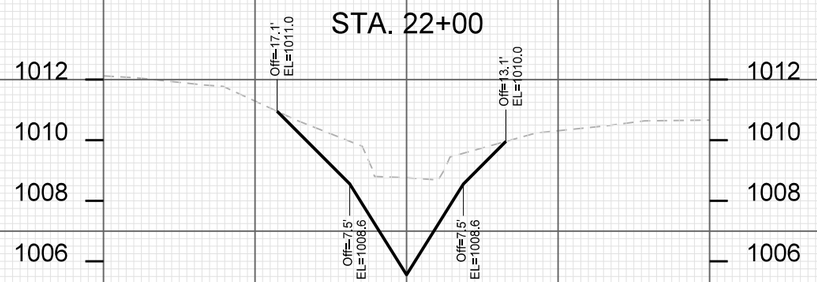


STA. 22+00



STA. 21+00

PLOT SCALE: ____

PLOT NAME: ____

REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12746\Storm\Design\12746STM-Xsection.dgn

DATE: 3/24/2020

MCKENNA FLOOD MITIGATION PH. 2 PROJECT NO. 12746	SHEET NO. W-1
WATER PLAN AND PROFILE	
SCHROEDER RD	CITY OF MADISON

PLOT SCALE: ——

PLOT NAME: ——

REV. DATE: ——

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STA 15+04.0 12.5' RT
EDGE 24-IN CASING

STA 14+80.0 RT 12.9'
EDGE 24-IN CASING

WN20
W-2

STA 14+35.0 RT 12.2±'
CUT-IN CONNECTION
W/ 12-IN VALVE

FURNISH & INSTALL ANODE

STA 15+41.0 RT 14.2'
CUT-IN CONNECTION
W/ 12-IN VALVE

WN21
W-2

STA 14+71.0 RT 13.0'
12-IN 45° BEND VERT.

STA 14+77.0 RT 13.1'
12-IN 45° BEND VERT.

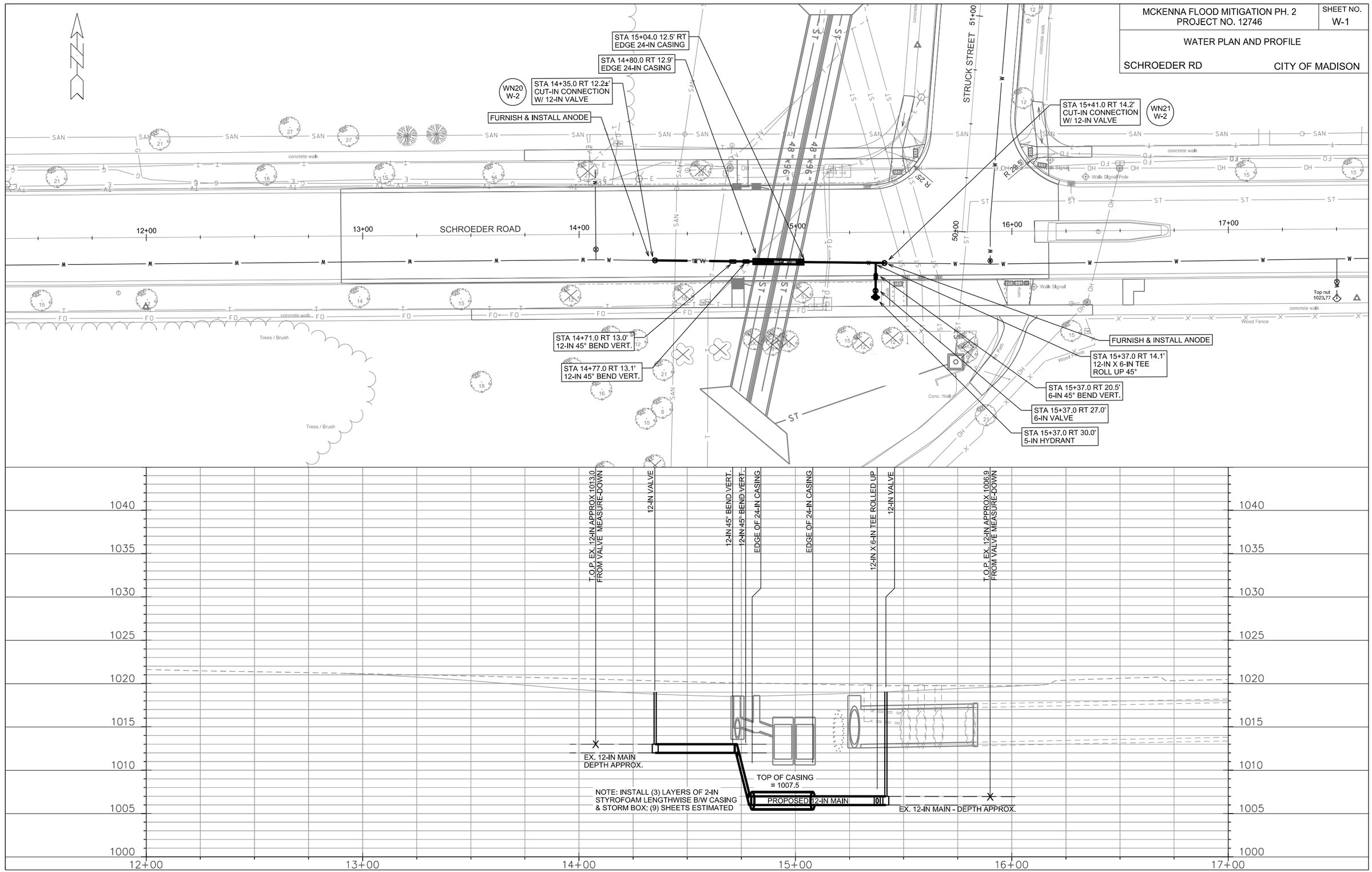
FURNISH & INSTALL ANODE

STA 15+37.0 RT 14.1'
12-IN X 6-IN TEE
ROLL UP 45°

STA 15+37.0 RT 20.5'
6-IN 45° BEND VERT.

STA 15+37.0 RT 27.0'
6-IN VALVE

STA 15+37.0 RT 30.0'
5-IN HYDRANT



FILE NAME: M:\DESIGN\Projects\12746\Water\12746WU-W1_PnP_Schroeder.dgn

DATE: 3/11/2020

MCKENNA FLOOD MITIGATION PH. 2 PROJECT NO. 12746	SHEET NO. W-4
WATER PLAN IMPACT PLAN	
SCHROEDER ROAD	CITY OF MADISON

COUNTRY MEADOWS
APARTMENTS

CONTACT LAURIE
AT (608) 273-8662

BRIGHT STAR SENIOR
LIVING OF MADISON;
SERVED OFF STRUCK
(608) 620-7900

PRAIRIE PARK
SENIOR APTS

CONTACT: MAIN NUMBER:
(608) 276-5785
OR CONTACT IN PERSON

LA PETITE ACADEMY
CHILDCARE CENTER

CONTACTS:
PRIMARY:
CARIN (608) 277-0076
SECONDARY:
JENNY (608) 222-0328

SERVICE OUTAGES
TO LA PETITE MAY
ONLY OCCUR ON A
SATURDAY OR SUNDAY

STRUCK ST

SCHROEDER RD

BERKSHIRE RD

CHAPEL HILL RD

V-11 — SV-1 — NEW 12" — NEW 12" — V-2 — SV-4 — 2-IN CURB STOP — V-5

WN20
W-1

CUT-IN CONNECTION
SCHROEDER AT STRUCK
WESTERN CUT-IN

ISOLATION VALVES:
- SV-1 (8" TO 6702 SCHROEDER)
- V-11 (12" NEAR 6708 SCHROEDER)
- NEW 12" (SHROEDER AT STRUCK)

NOTE:
IF THIS OPERATION IS PERFORMED
WITH WN21 IT WILL REQUIRE A
SERVICE OUTAGE TO LA PETITE
CHILDCARE CENTER. IN THAT
CASE, IT MAY ONLY BE PERFORMED
ON A SATURDAY OR SUNDAY

WN21
W-1

CUT-IN CONNECTION
SCHROEDER AT STRUCK
EASTERN CUT-IN

ISOLATION VALVES:
- V-2 (10" STRUCK AT SCHROEDER)
- SV-1 (8" TO 6702 SCHROEDER)
- V-11 (12" NEAR 6708 SCHROEDER)
- SV-4 (8" TO 6518 & 6530 SCHROEDER)
- 2" CURB STOP (6514 SCHROEDER)
- V-5 (12" SCHROEDER AT CHAPEL HILL)

NOTE:
THIS OPERATION MAY ONLY
BE PERFORMED ON A SATURDAY
OR SUNDAY TO AVOID WEEKDAY
SERVICE OUTAGES TO LA PETITE
CHILDCARE CENTER

PLOT SCALE: ——
PLOT NAME: ——
REV. DATE: ——
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: $$...designfile,...$$

DATE: $$...plottingdate...$$

MCKENNA FLOOD MITIGATION PH. 2 PROJECT NO. 12746	SHEET NO. W-3
WATER ESTIMATE OF MATERIALS	
SCHROEDER ROAD	CITY OF MADISON

CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.

WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.

WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.

WN4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.

WN5 RELOCATE THE EXISTING FIRE HYDRANT.

WN6 ABANDON WATER VALVE ACCESS STRUCTURE.

WN7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.

WN8 ABANDON THE VALVE BOX.

WN9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.

WN10 REMOVE AND SALVAGE EXISTING HYDRANT

WN11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE

WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTFICATION INFORMATION.

WATER UTILITY ULO SCHEDULE:

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

20-FT - 6-IN PIPE
110-FT - 12-IN PIPE

24-FT - 24-IN CASING

1 - 6-IN VALVE & BOX
2 - 12-IN VALVE & BOX

1 - 12-IN X 6-IN TEE

1 - 6-IN 45° BEND
2 - 12-IN 45° BEND

1 - 5-IN HYDRANT

2 - ANODE

72-FT - 2-IN STYROFOAM INSULATION

150-FT - POLY WRAP

MATERIALS SUPPLIED BY CITY:

** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

NONE

ESTIMATE OF MATERIALS REUSED:

** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

NONE

TO OBTAIN LOCATION OF
PARTICIPANTS' UNDERGROUND
FACILITIES BEFORE YOU
DIG IN WISCONSIN

CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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

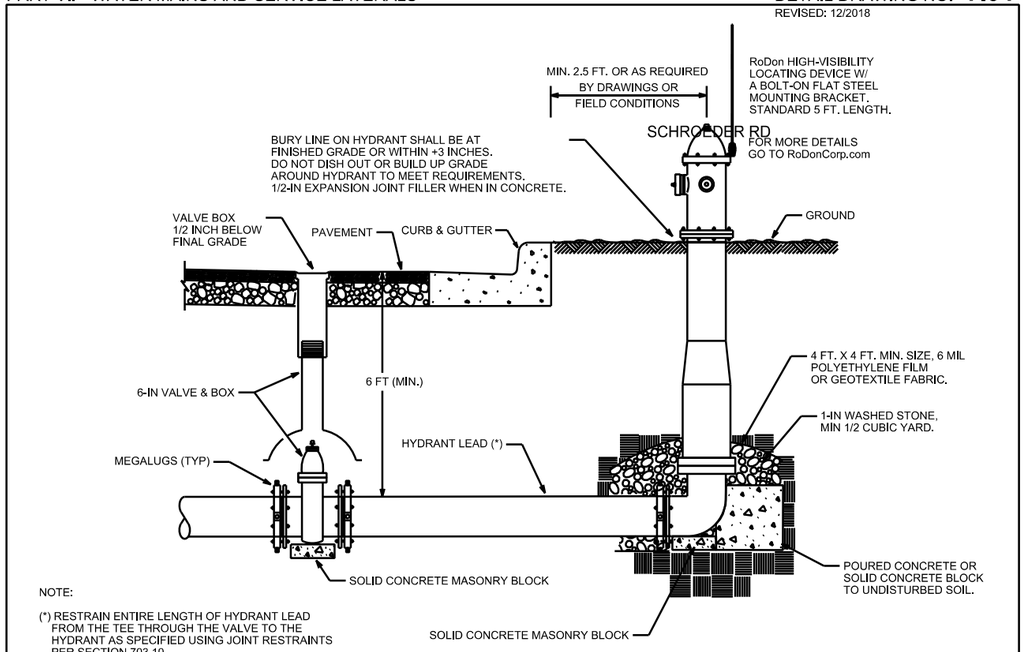
MEMBER
ONE CALL SYSTEMS INTERNATIONAL

DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. **7.04**

REVISED: 12/2018



NOTE:

(*) RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL HYDRANT INSTALLATION

City of Madison Standard Specifications for Public Works Construction

PLOT SCALE: ____
PLOT NAME: ____
REV. DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\12746\Water\12746WU-W3_Materials.dgn

DATE: 3/11/2020

Schroeder Rd
Project No. 12746

SHEET NO.
TC-1

Vehicle Detour Plan

CITY OF MADISON

Watts Rd

Schroeder Rd

S Gammon Rd

Struck St

Rayovac Dr

Park Ridge Dr

N

LEGEND
- Sign
- Work Zone
- Barricade

SCHROEDER RD
DETOUR

SCHROEDER RD
END DETOUR

SCHROEDER RD
DETOUR AHEAD

SCHROEDER RD
ROAD CLOSED AHEAD

ROAD CLOSED TO THRU TRAFFIC

PLOT SCALE:

PLOT NAME:

REV, DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

FILE NAME: $$....designfile....$$

DATE: $$...plottingdate...$$

Schroeder Rd
Project No. 12746

SHEET NO.
TC-2

Bike Path Detour Plan

CITY OF MADISON

LEGEND
- Sign
- Work Zone
- Barricade

McKenna Blvd
Hammersley Rd
Schroeder Rd
Watts Rd
Struck St
Chapel Hill Rd
Rayovac Dr
N

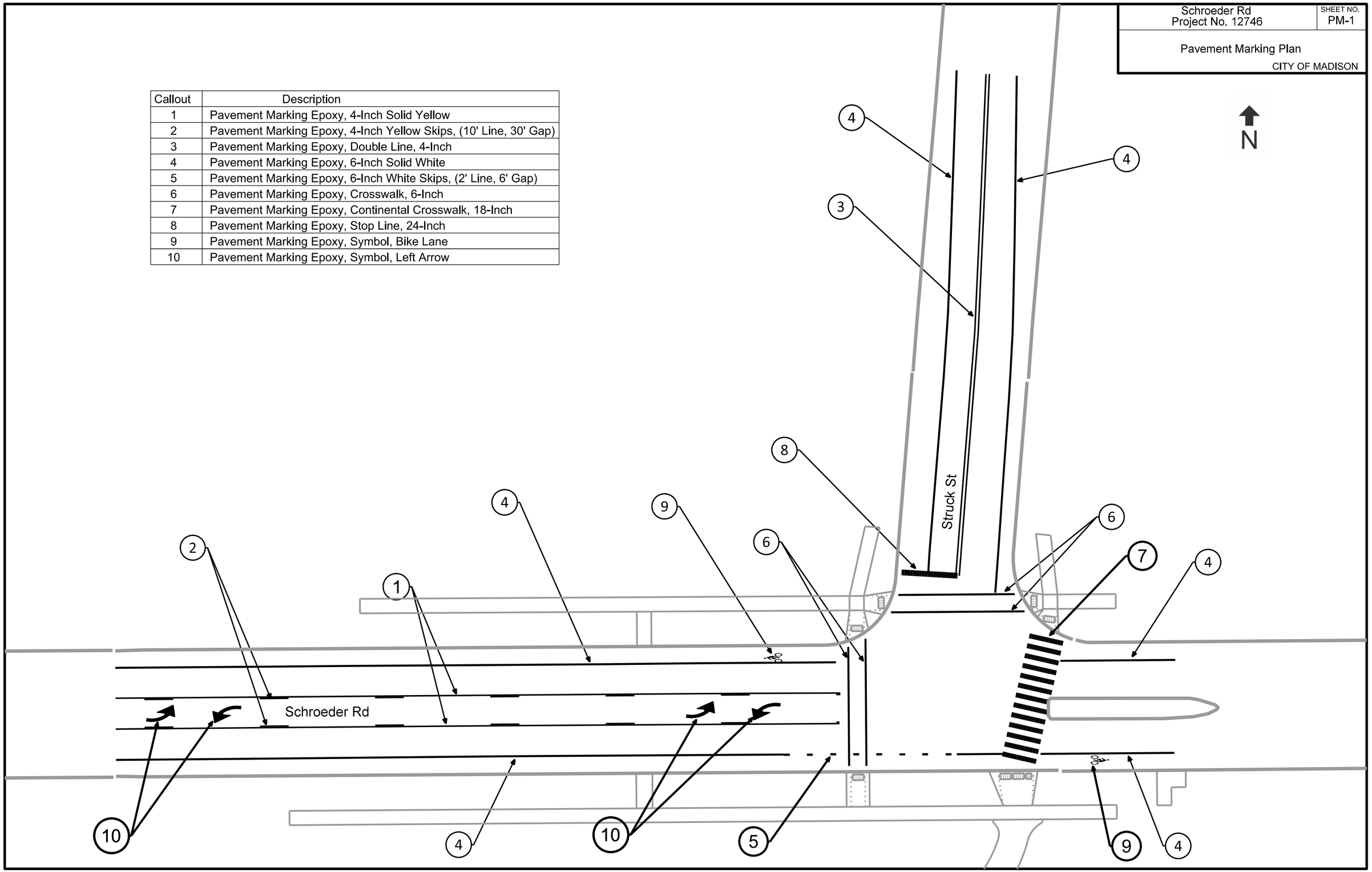
END DETOUR
DETOUR

PLOT SCALE:
PLOT NAME:
REV, DATE:
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG., DIV.

FILE NAME: $$....designfile....$$

DATE: $$...plottingdate...$$

Callout	Description
1	Pavement Marking Epoxy, 4-Inch Solid Yellow
2	Pavement Marking Epoxy, 4-Inch Yellow Skips, (10' Line, 30' Gap)
3	Pavement Marking Epoxy, Double Line, 4-Inch
4	Pavement Marking Epoxy, 6-Inch Solid White
5	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
6	Pavement Marking Epoxy, Crosswalk, 6-Inch
7	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
8	Pavement Marking Epoxy, Stop Line, 24-Inch
9	Pavement Marking Epoxy, Symbol, Bike Lane
10	Pavement Marking Epoxy, Symbol, Left Arrow



PLOT SCALE:

PLOT NAME:

REV, DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

FILE NAME: $$....designfile....$$

DATE: $$...plottingdate...$$