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SHEET NO.

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

CONVENTIONAL SIGNS FIELD VERIFY ALL UTILITY LOCATIONS GAS STORM SEWER SANITARY SEWER WATER OVERHEAD ELECTRIC POWER POLE

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 I" 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%.

SCHROEDER RD PIPING ROCK RD 6500 EDGARTOWN CT CONNECTICUT CT GEORGETOWN CT **ELVER**

6700

BY THE COMMON COUNCIL OF MADISON, WISCONSIN PUBLIC IMPROVEMENT DESIGN

PUBLIC IMPROVEMENT PROJECT APPROVED

MARCH 17, 2020

MNITARY SEWER DESIGNED BY:



STORM SEWER
DESIGNED BY: MATTHEW ALLIE E-44986

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

MCKENNA FLOOD MITIGATION PHASE 2 PROJECT NO. 12746 EC-1

EROSION CONTROL & RESTORATION PLAN

CITY OF MADISON

EROSION CONTROL LEGEND



VELOCITY CHECK / DEWATERING BARRIER



INLET PROTECTION RIGID FRAME



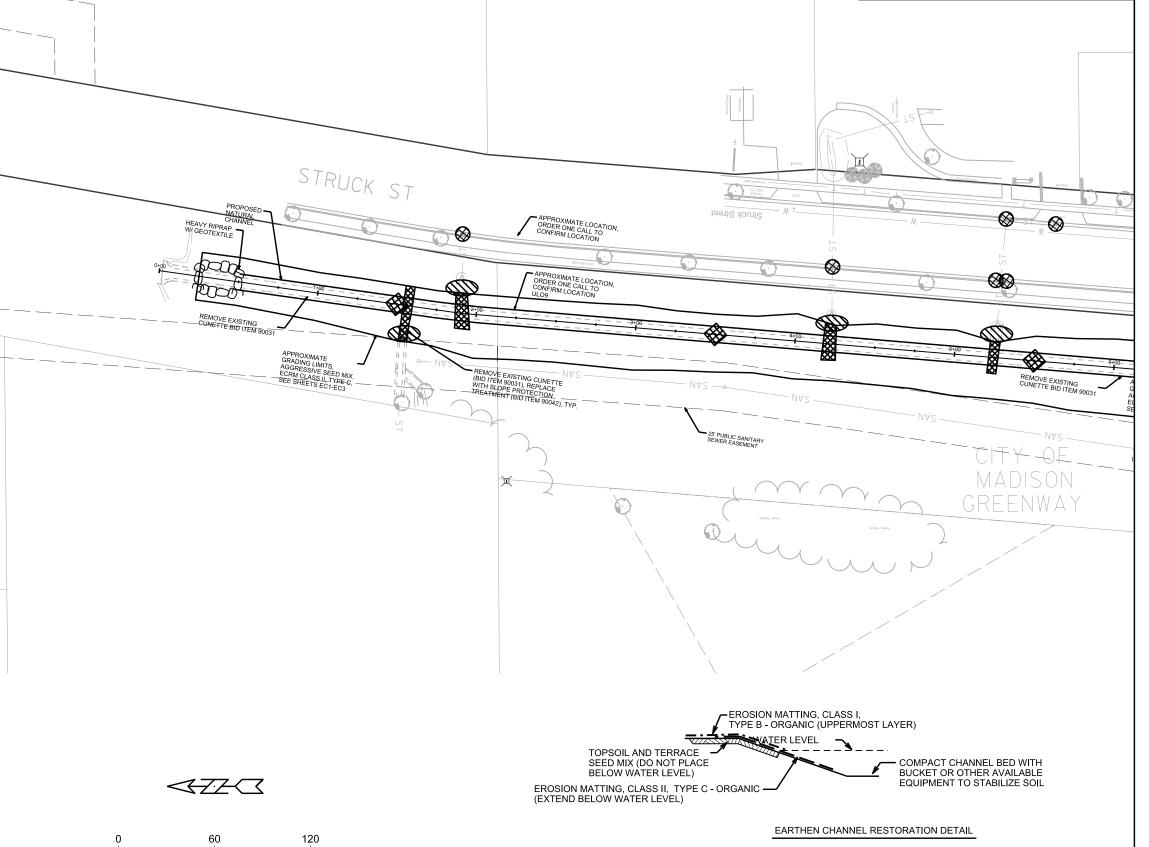
DITCH CHECK SEE DETAIL (S.D.D. 1.05)

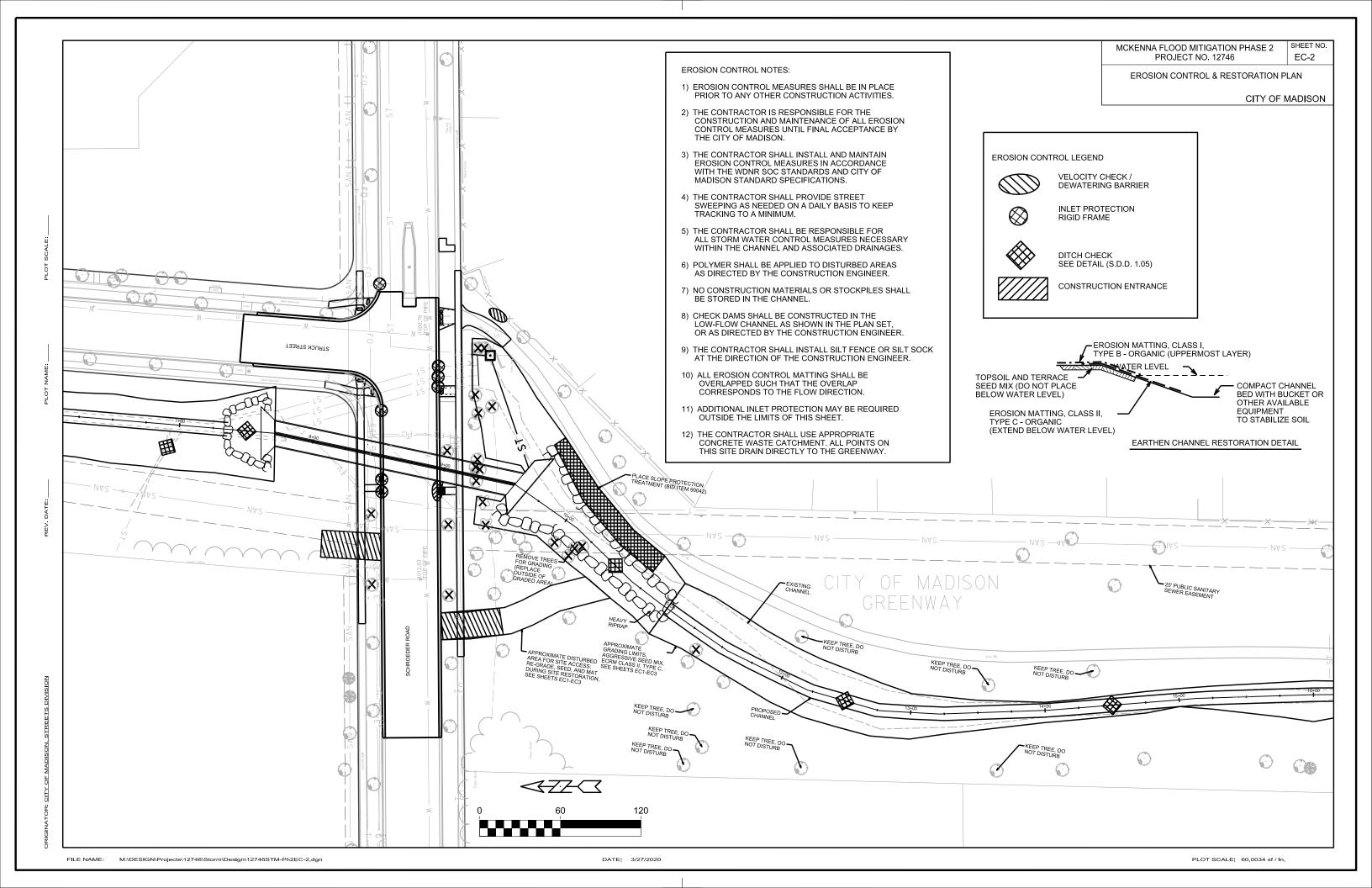


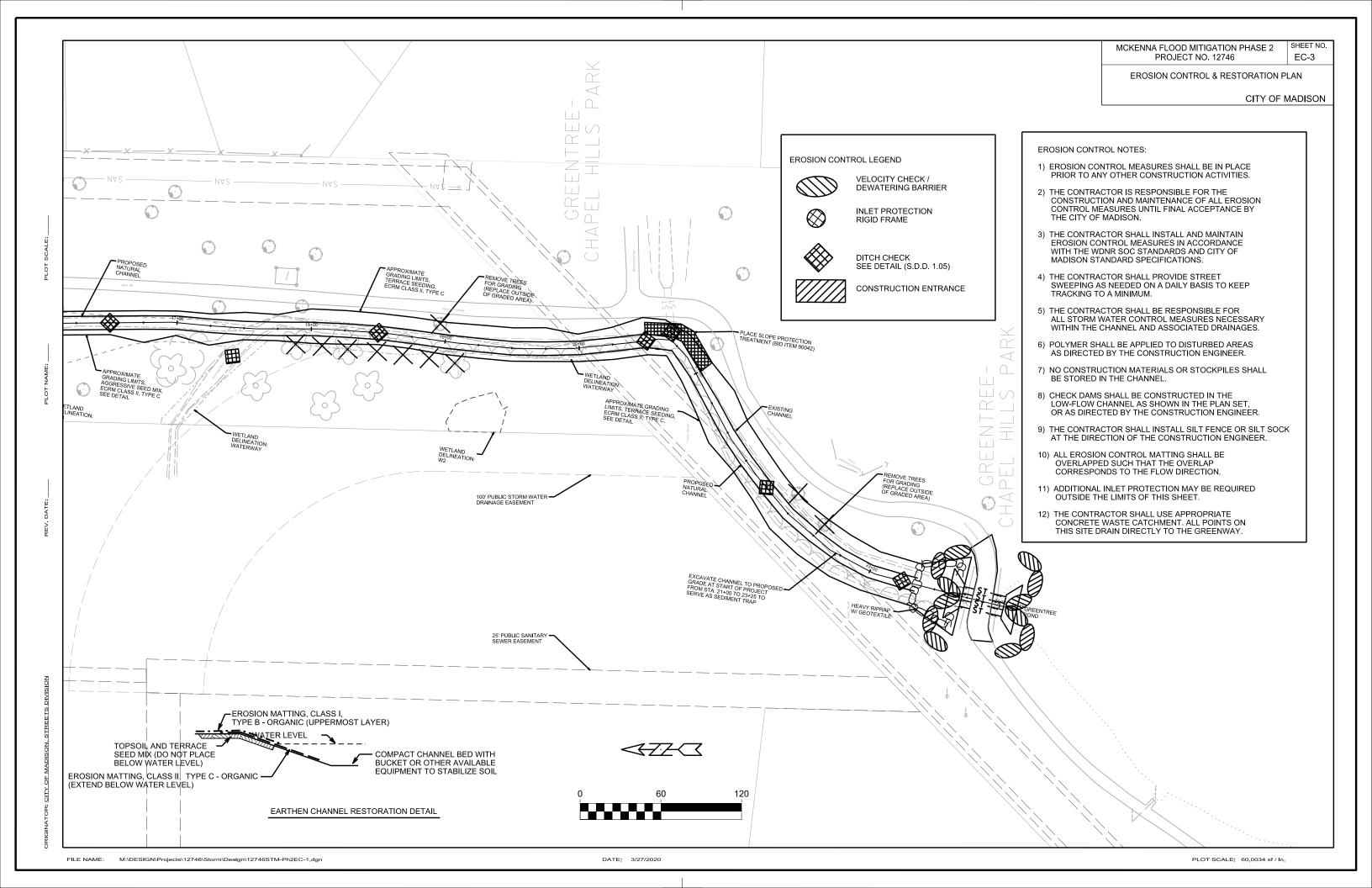
CONSTRUCTION ENTRANCE

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.





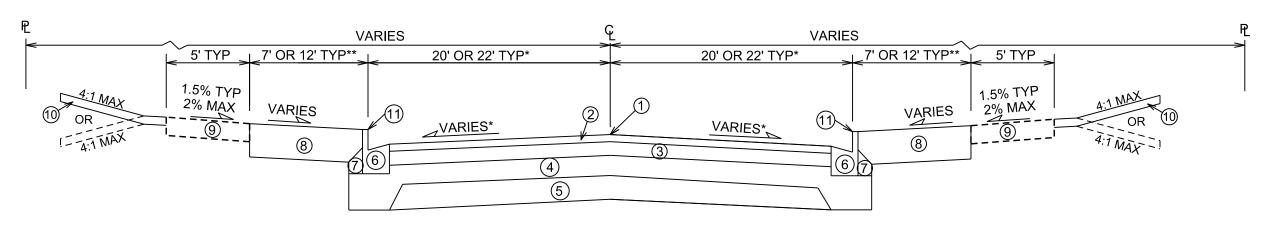


SHEET NO. D-1

DETAILS

TYPICAL SECTIONS

CITY OF MADISON



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

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

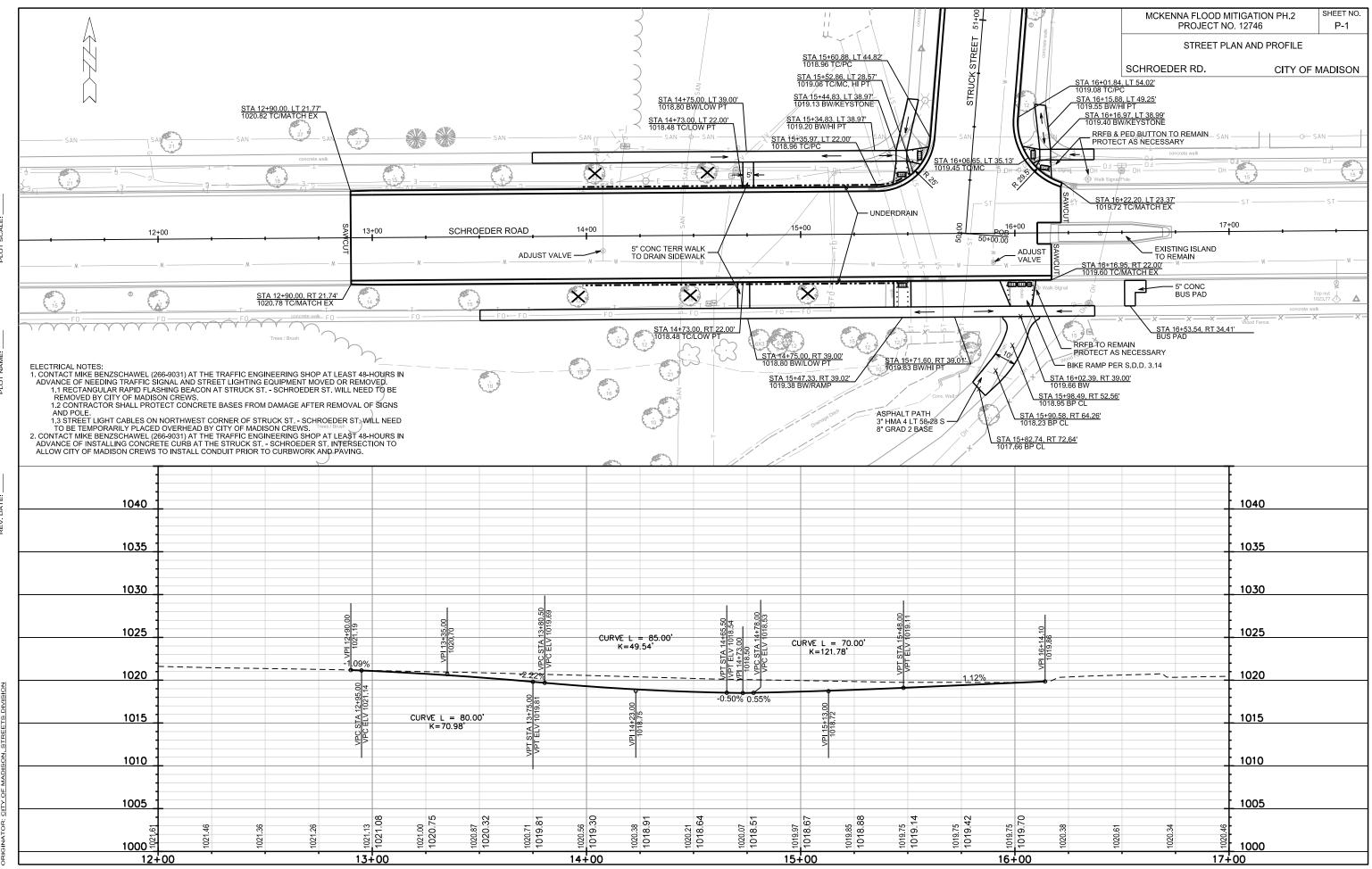
TYPICAL FINISHED SECTION
SCHROEDER RD & STRUCK ST
NOT TO SCALE

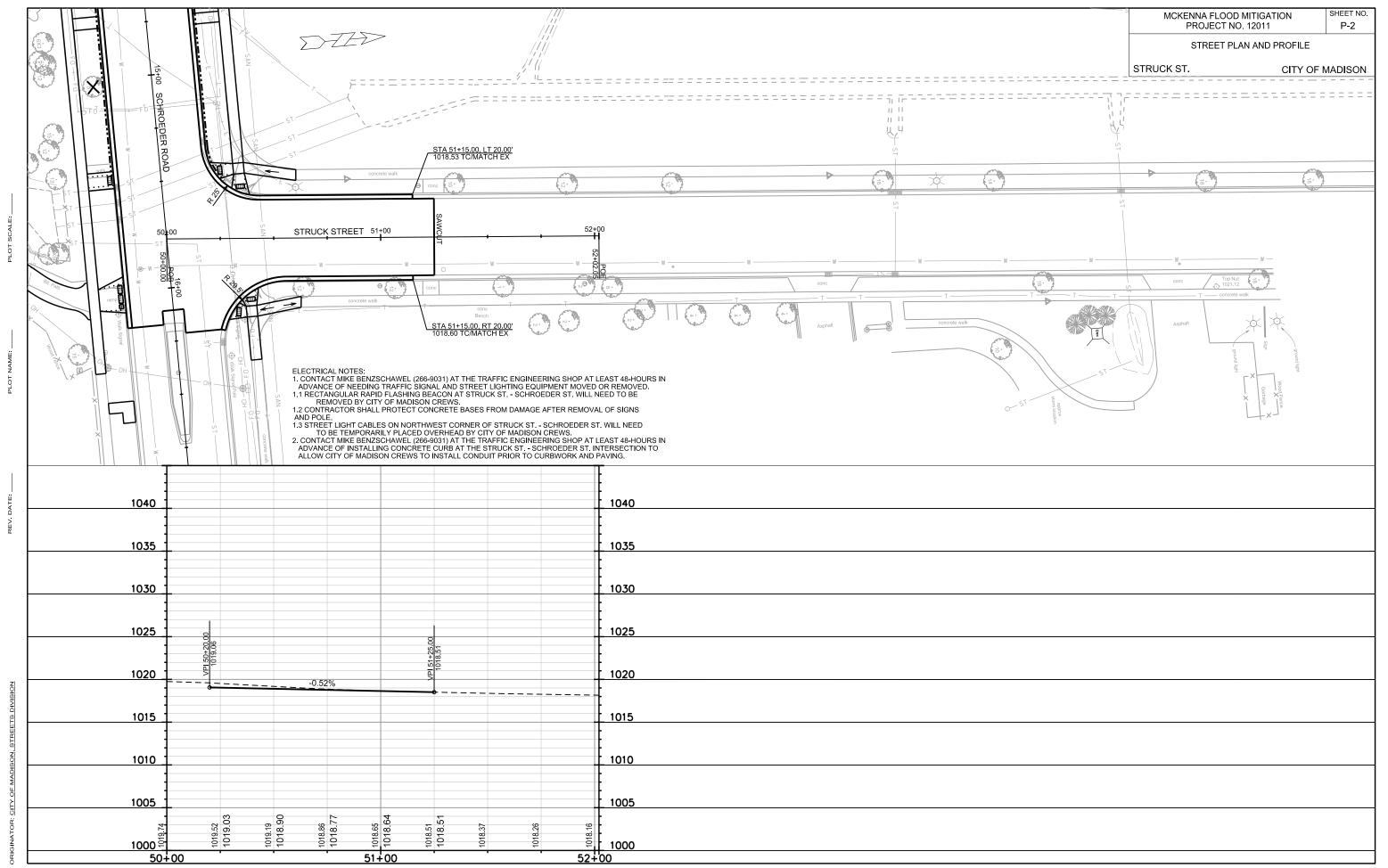
- ① POINT REFERRED TO ON PROFILE
- ② 2" HMA PAVEMENT, 4 MT 58-28 S
- ③ 3.5" HMA PAVEMENT, 3 MT 58-28 S
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE
- **⑤** 6" GRADATION 1 CRUSHED AGGREGATE BASE
- © TYPE 'A' CONCRETE CURB & GUTTER
- ⑦ FILL, INCIDENTAL
- **8** 12" TOPSOIL, SEED & EROSION MAT
- 9 5" CONCRETE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

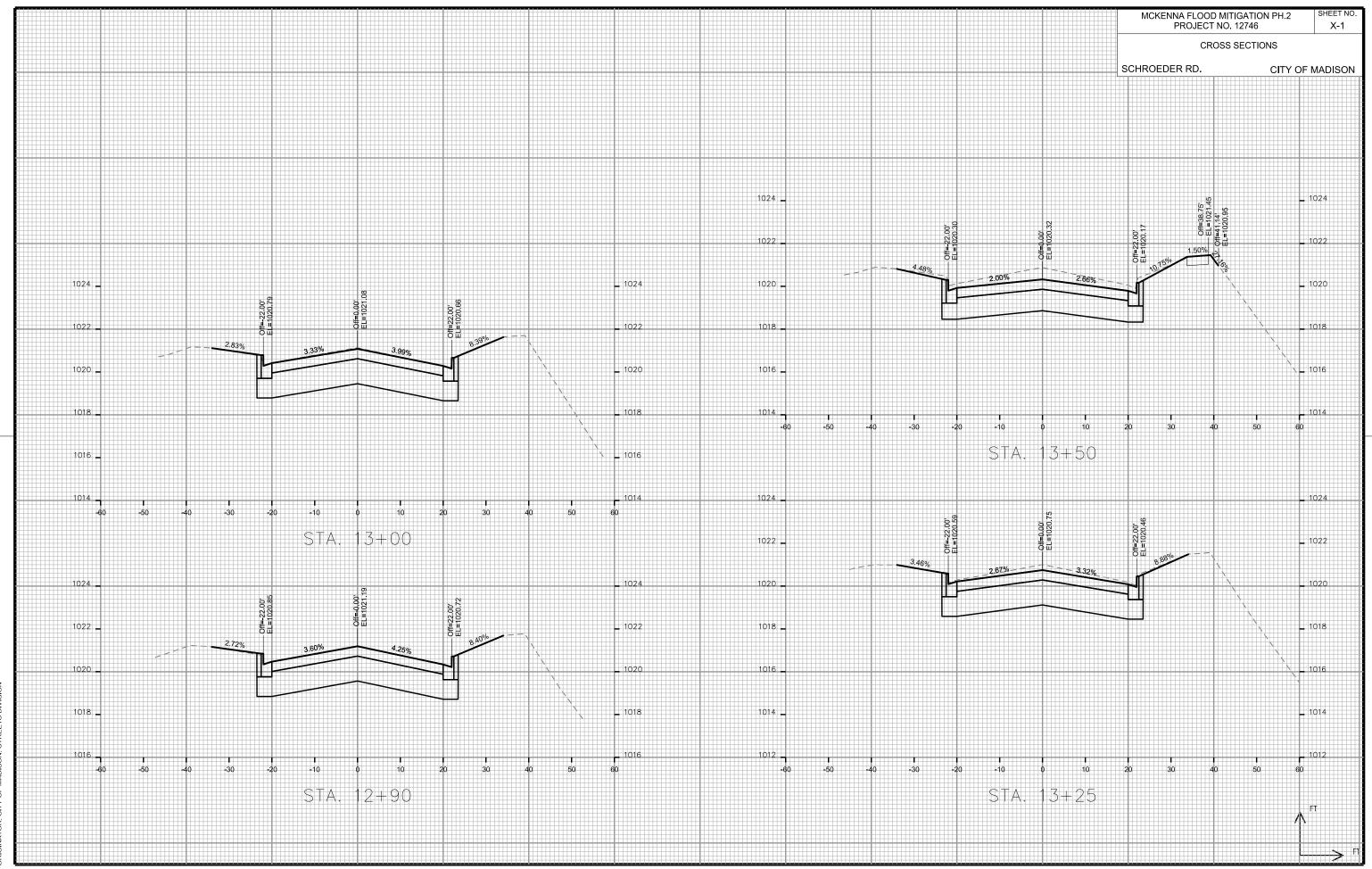
FOR BIKE PATH TYPICAL SECTION SEE S.D.D. 4.08. WIDTH VARIES; SEE PLAN FOR OFFSETS & DIMENSIONS EARTHWORK SUMMARY:

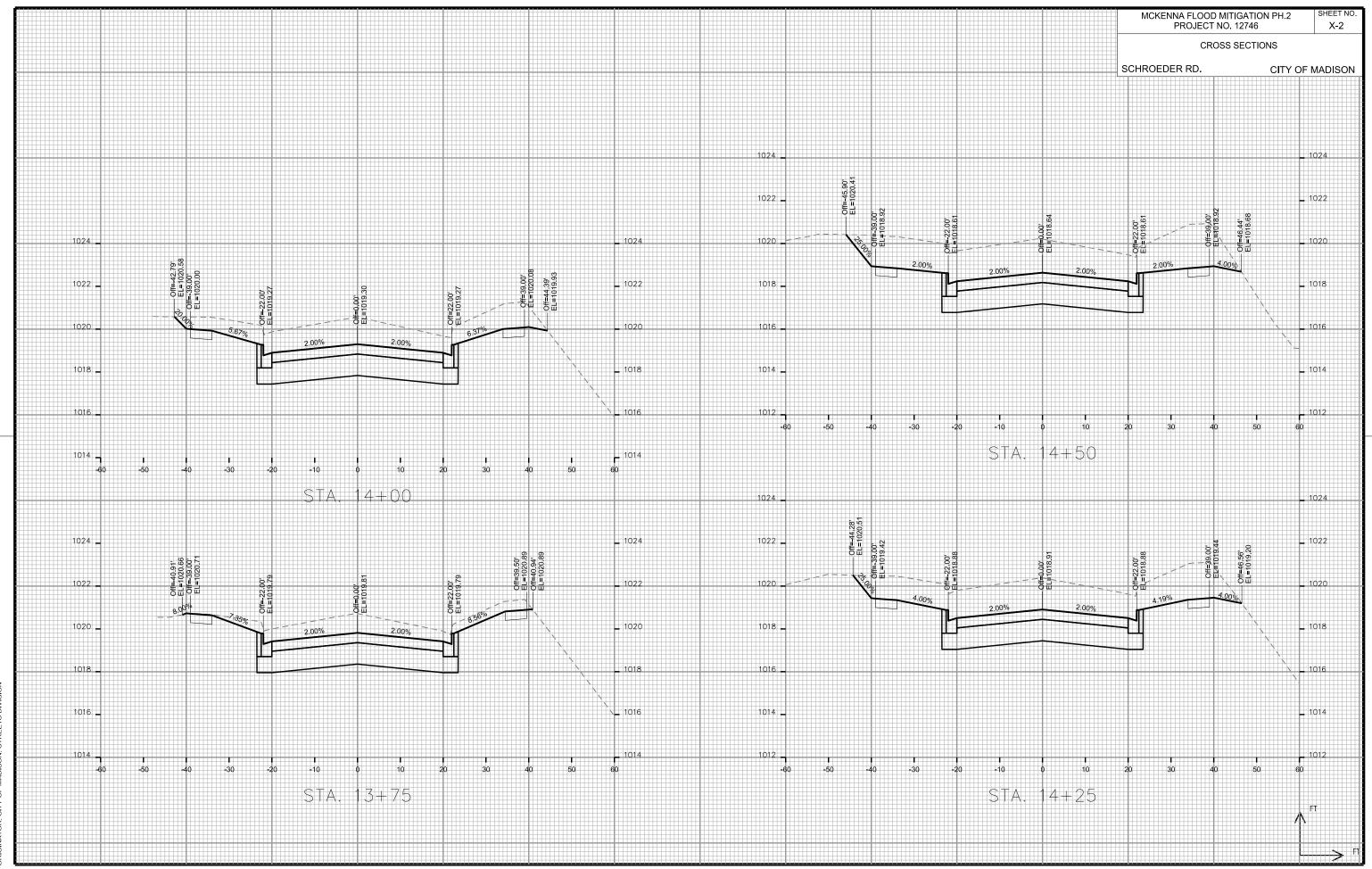
EXCAVATION CUT (MEASURED PLAN QUANTITY).......1,870 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT......250 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT......2,120 C.Y.

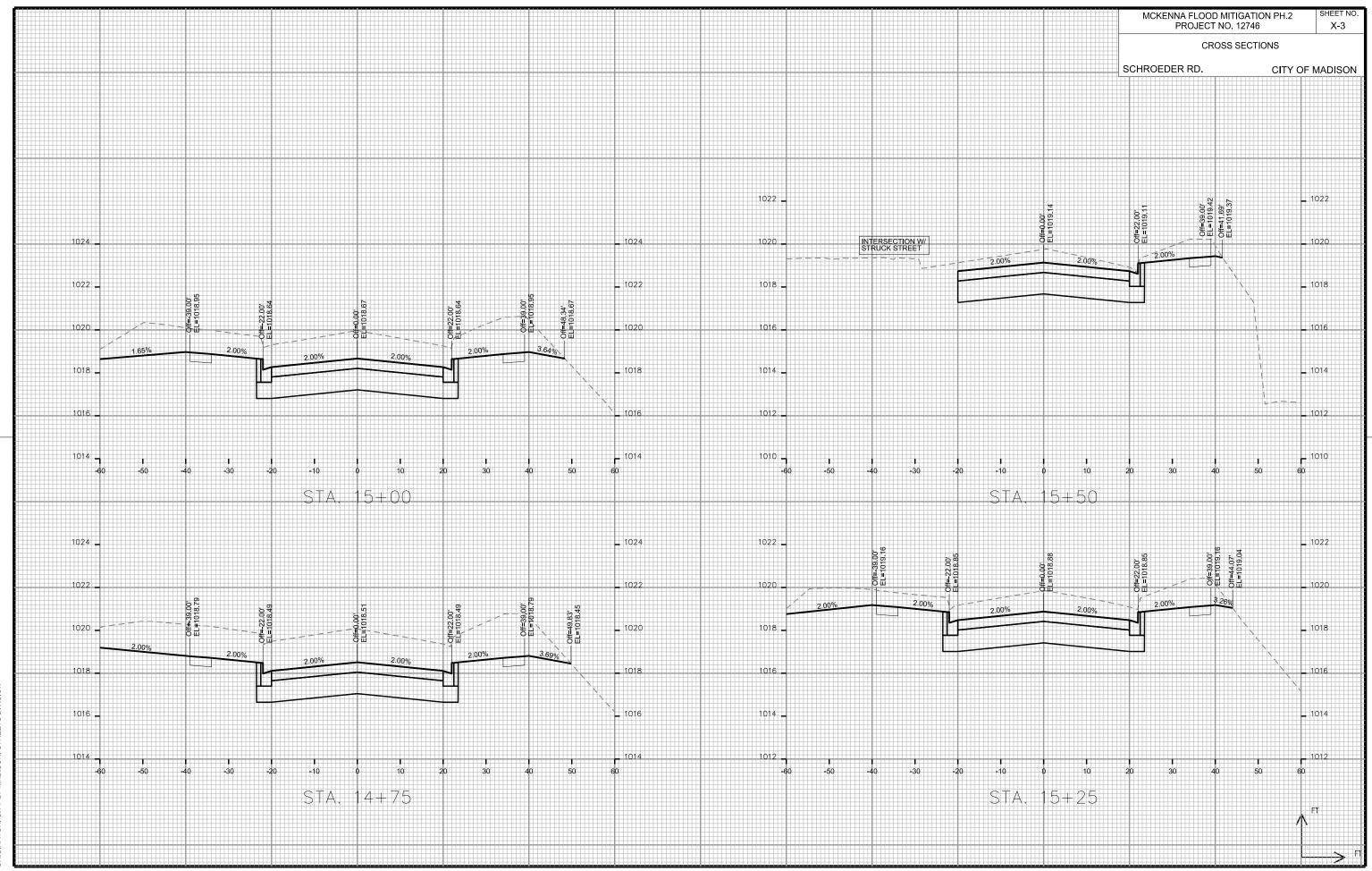
OBIGINATOR: CITY OF MADISON STREE

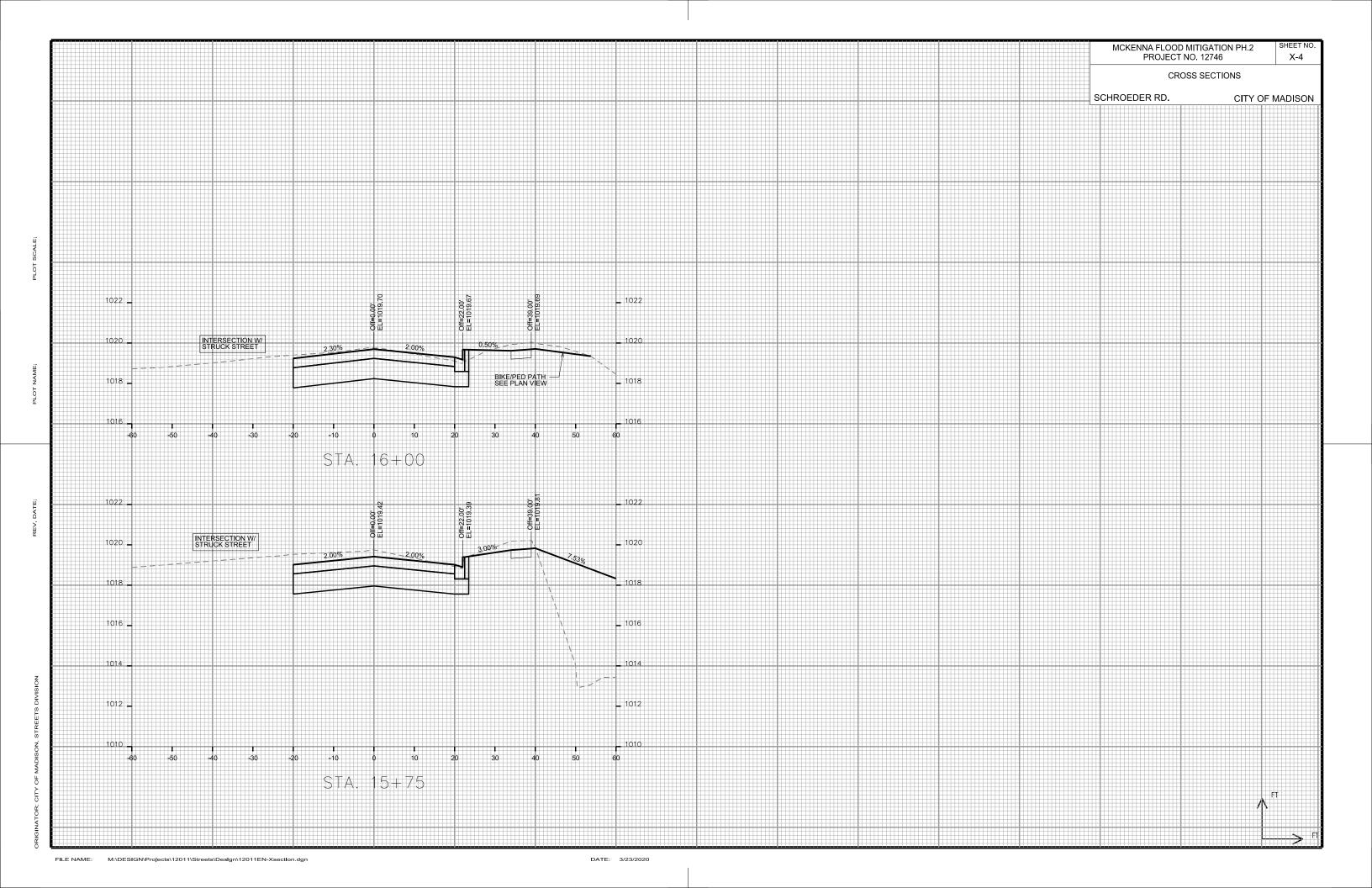


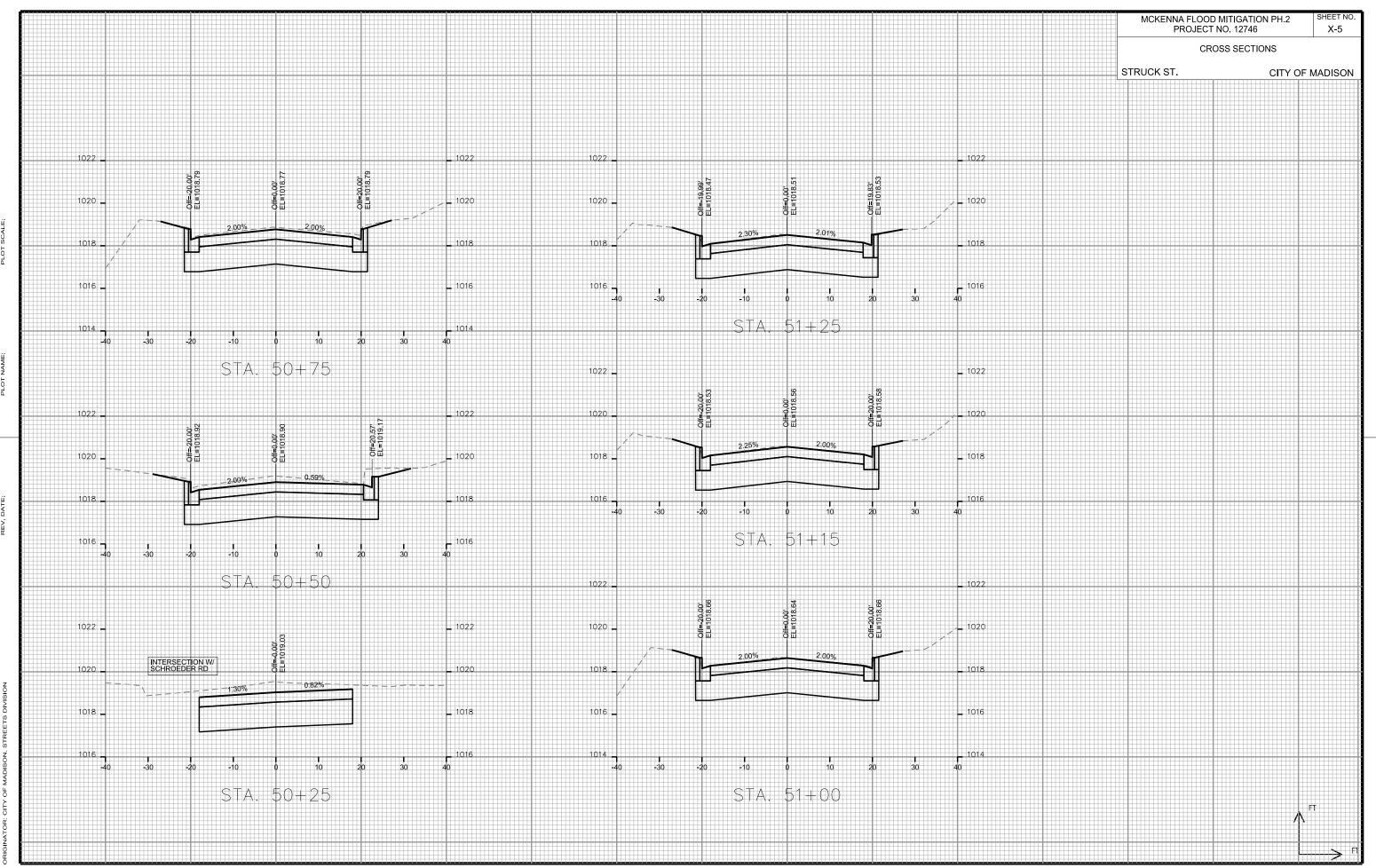


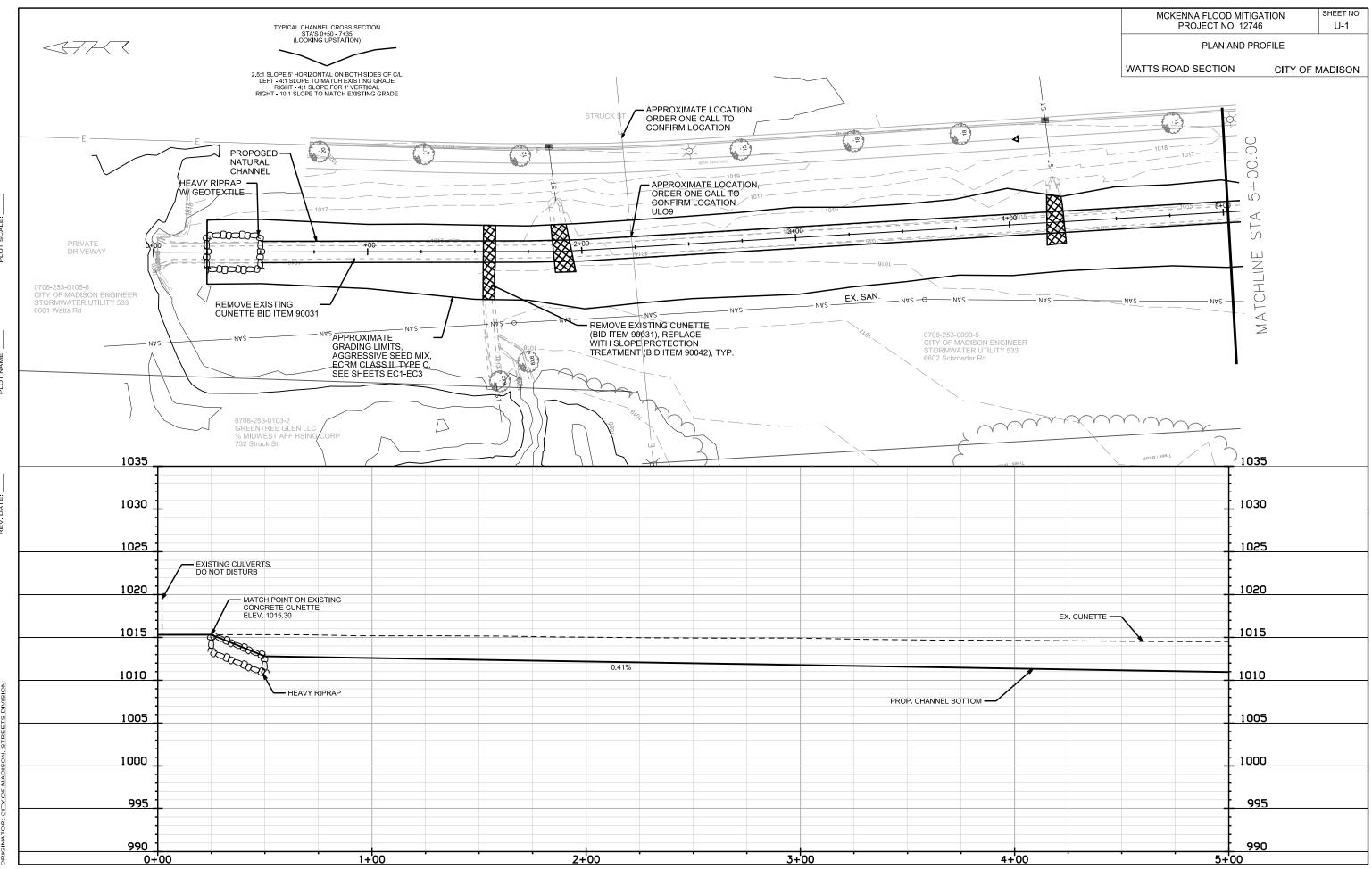


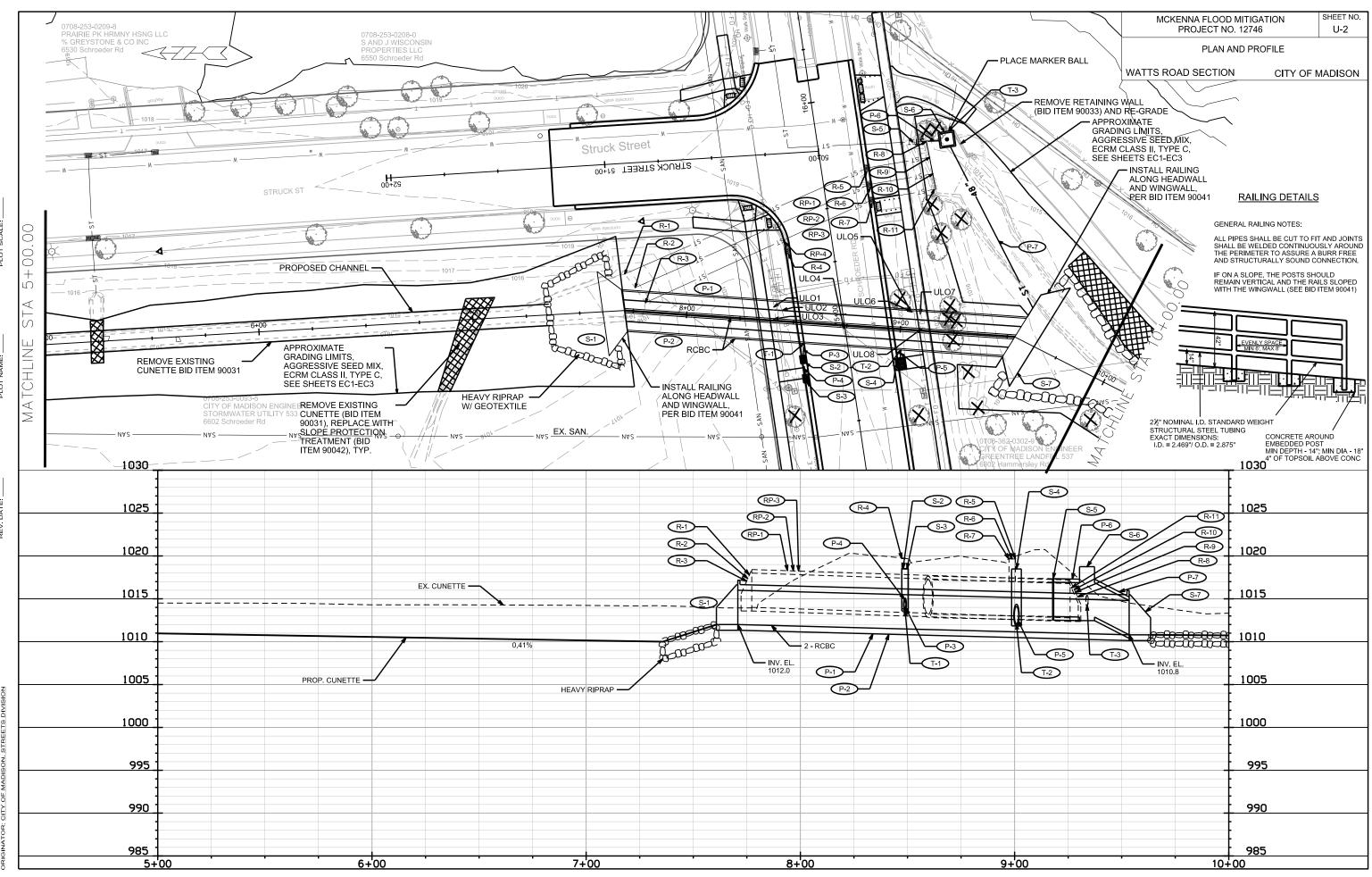


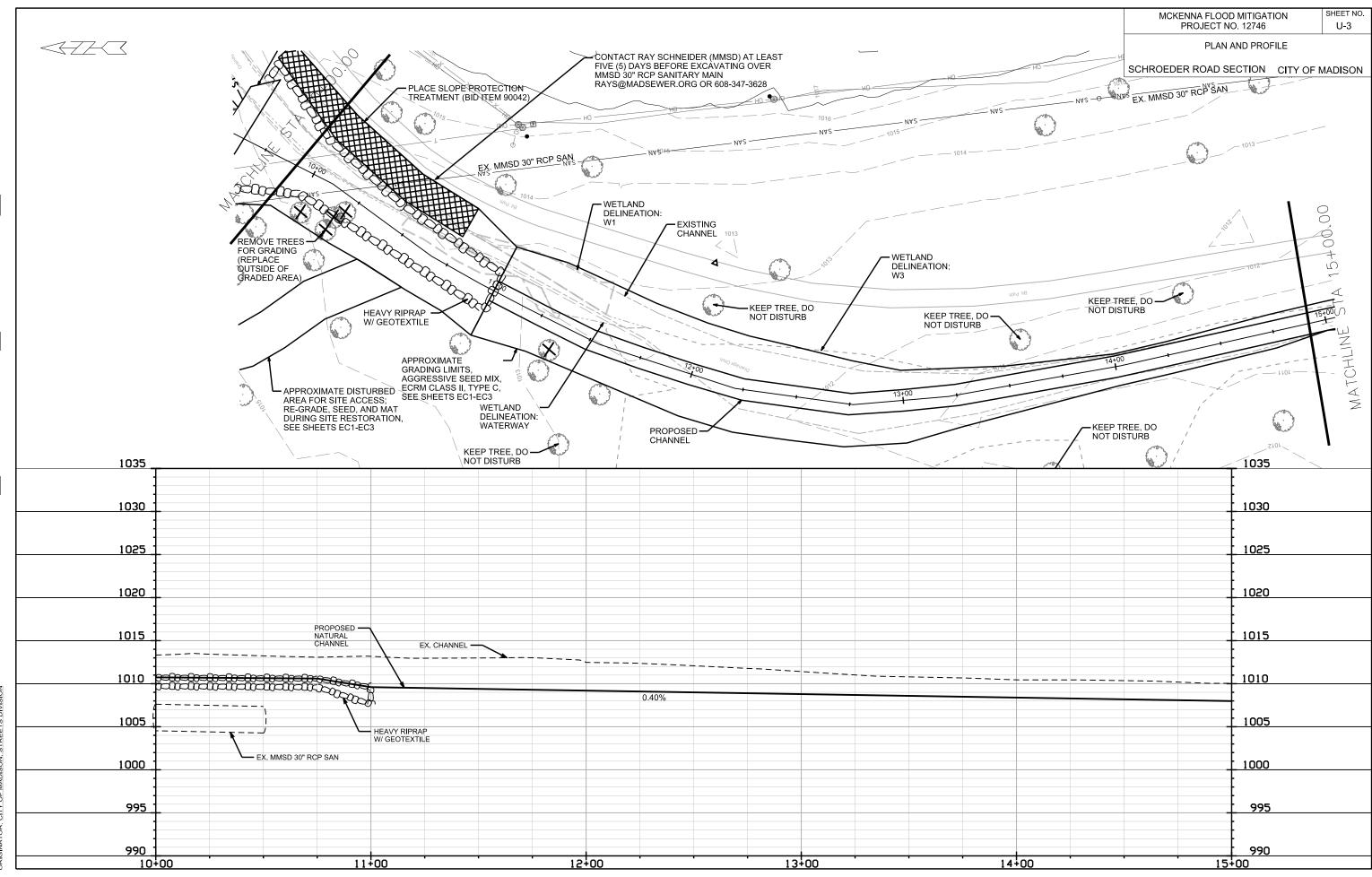


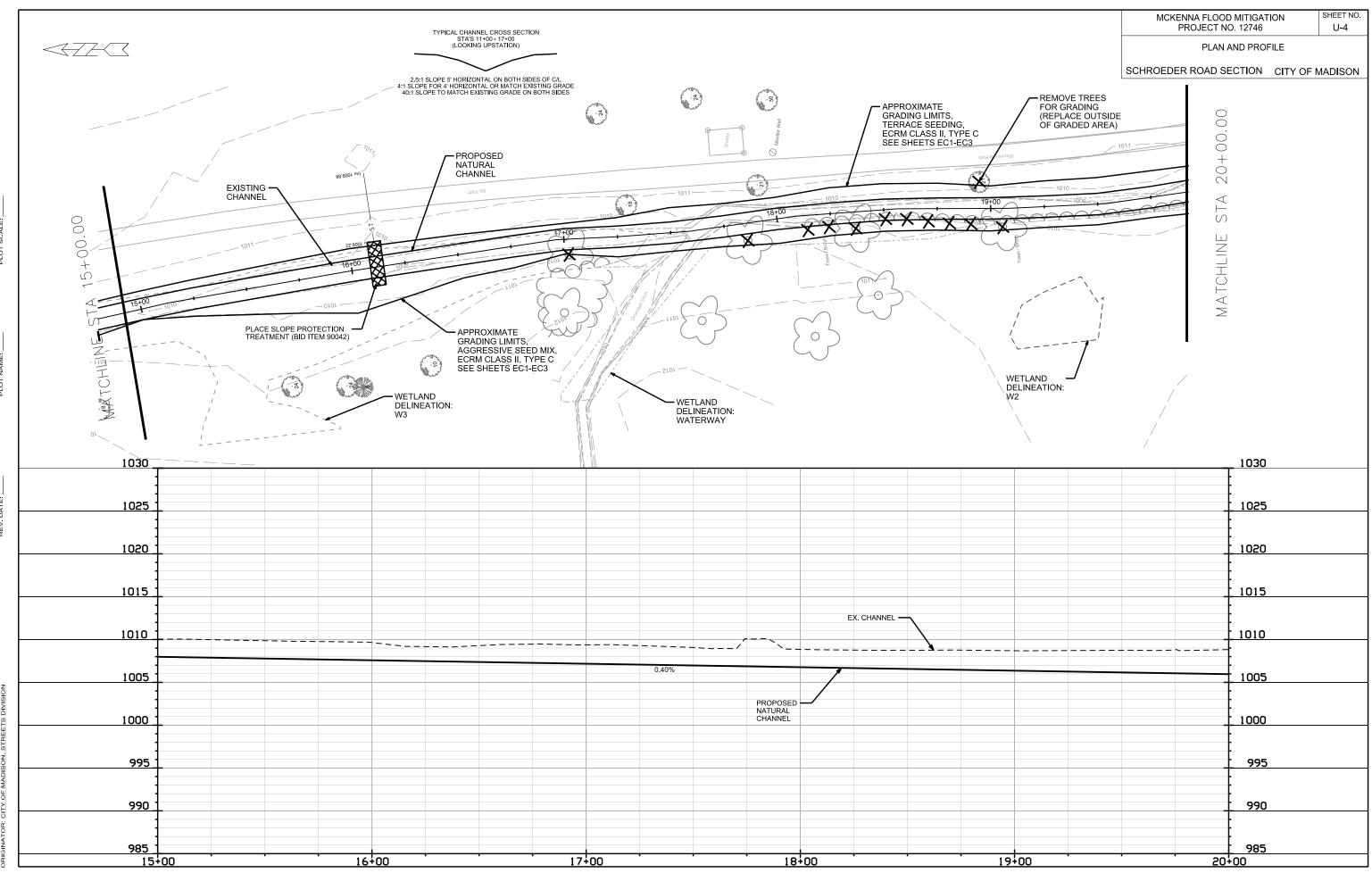


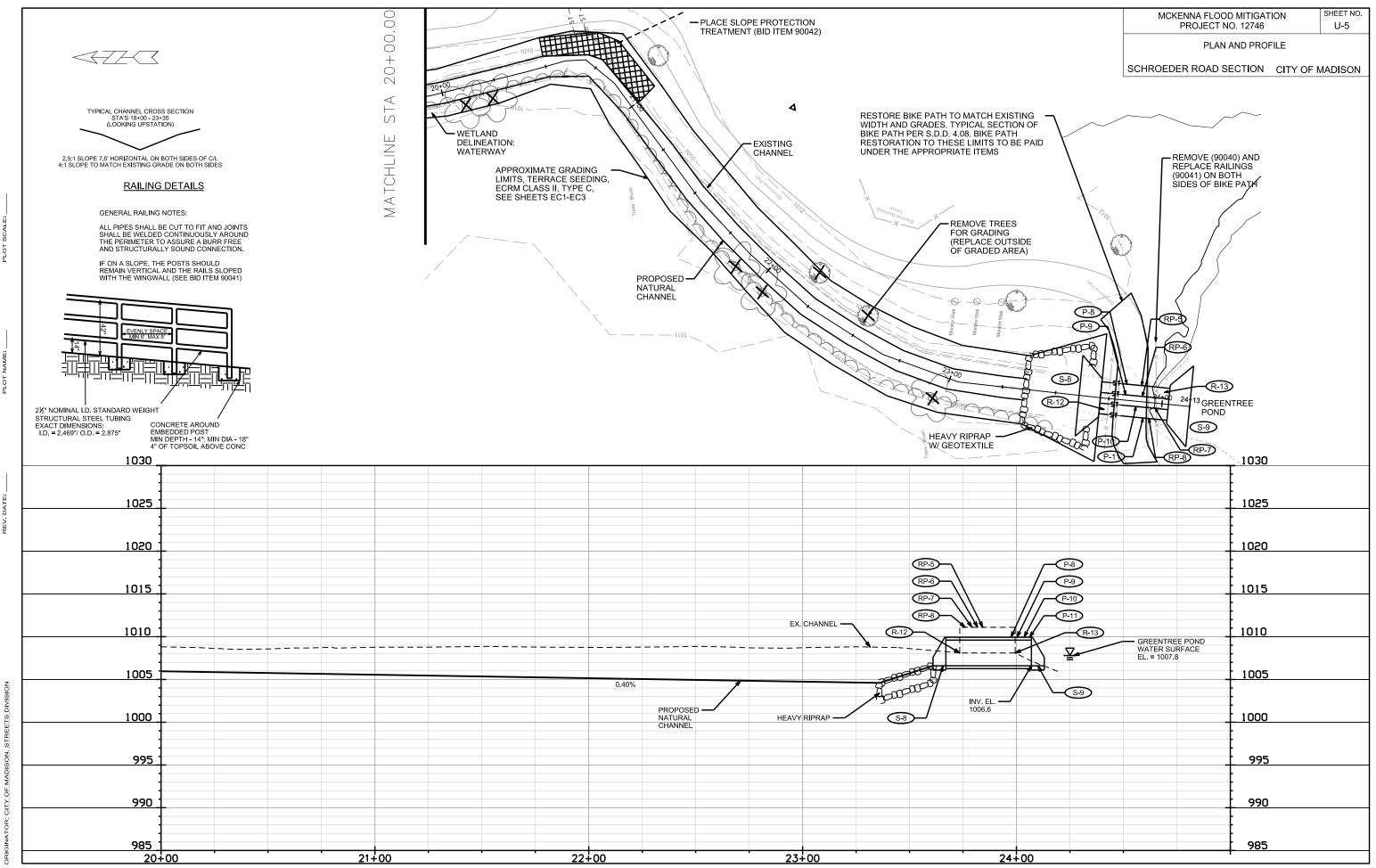












STORM SEWER SCHEDULE

MCKENNA FLOOD MITIGATION PHASE 2 SHEET NO.
PROJECT NO. 12746 U-6

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSE	D STORM	<u>STRUCT</u>	<u>URES</u>					PROF	<u>'OSED STOI</u>	<u>RM PIPES</u>								
STRUC.	STATION	LOCATION	TYPE	TOP OF	E.I.	DEPTH	NOTES	PIPE	FROM	TO	DISCH.	INLET	PLAN (PAY)	PIPE	SLOPE	PIPE	TYPE	NOTES
NO.		(OFFSET)		CASTING				NO.	(DNSTM)	(UPSTM)	E.I.	E.I.	LGTH (FT)	LGTH (FT)	(%)	SIZE		
SCHROEDER ROAD SCHROEDER ROAD																		
S-1	7+70.84	CL	RCBC WINGWALL	-	1012.00	-	[1]; [2]	P-1	S-7	S-1	1010.80	1012.00	186.4	186.4	0.64%	8'X4'	RCBC	[4]
S-2	8+57.07	RT-16.8	H INLET	1018.53	1013.71	4.82	R-3067-7004-V	P-2	S-7	S-1	1010.80	1012.00	179.0	179.0	0.67%	8'X4'	RCBC	[4]
S-3	8+59.01	RT-25.6	H INLET	1018.48	1013.96	4.52	LP; w/ R-3067-7004-V	P-3	P-2	S-2	1013.40	1013.71	8.7	6.2	5.00%	12"	TYPE I	TAP RCBC AT DS END
S-4	8+99.10	RT-16.6	TYPE II TERRACE INLET	1018.48	1012.10	6.38	[3]; LP; FP	P-4	S-2	S-3	1013.71	1013.96	8.0	5.0	5.00%	12"	TYPE I	-
S-5	9+04.89	LT-88.1	COLLAR	-	1012.94	-	-	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
S-6	9+15.73	LT-89.9	6X6 AS	1018.75	1012.87	5.88	FP	P-6	S-6	S-5	1012.87	1012.94	16.0	13.0	0.54%	48"	TYPE I	-
S-7	9+53.54	CL	RCBC WINGWALL	-	1010.80	-	[1]; [2]	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								GREENV	VAY									
S-8	23+71.03	CL	RCBC WINGWALL	-	1006.30	-	[1]	P-8	S-8	S-9	1006.6	1006.6	32.0	32.0	0.00%	42"	TYPE I	=
S-9	24+03.03	CL	RCBC WINGWALL	-	1006.30	-	[1]	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
SCHROEDE	R 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)

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.

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

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.	ID	STATION	LOCATION	TYPE	
NO.	NO.	0.71.1011	(OFFSET)	=	
			(
SCHROEDEI	R 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 RP-2 RP-3 RP-4	R-1 R-2 R-3 R-4	R-8 R-10 R-11 RP-3	153.1 149.5 146.3 3.9	48" 48" 48" 48"	RCP RCP RCP RCP	Y Y Y N	153.1 141.7 124.5 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	-

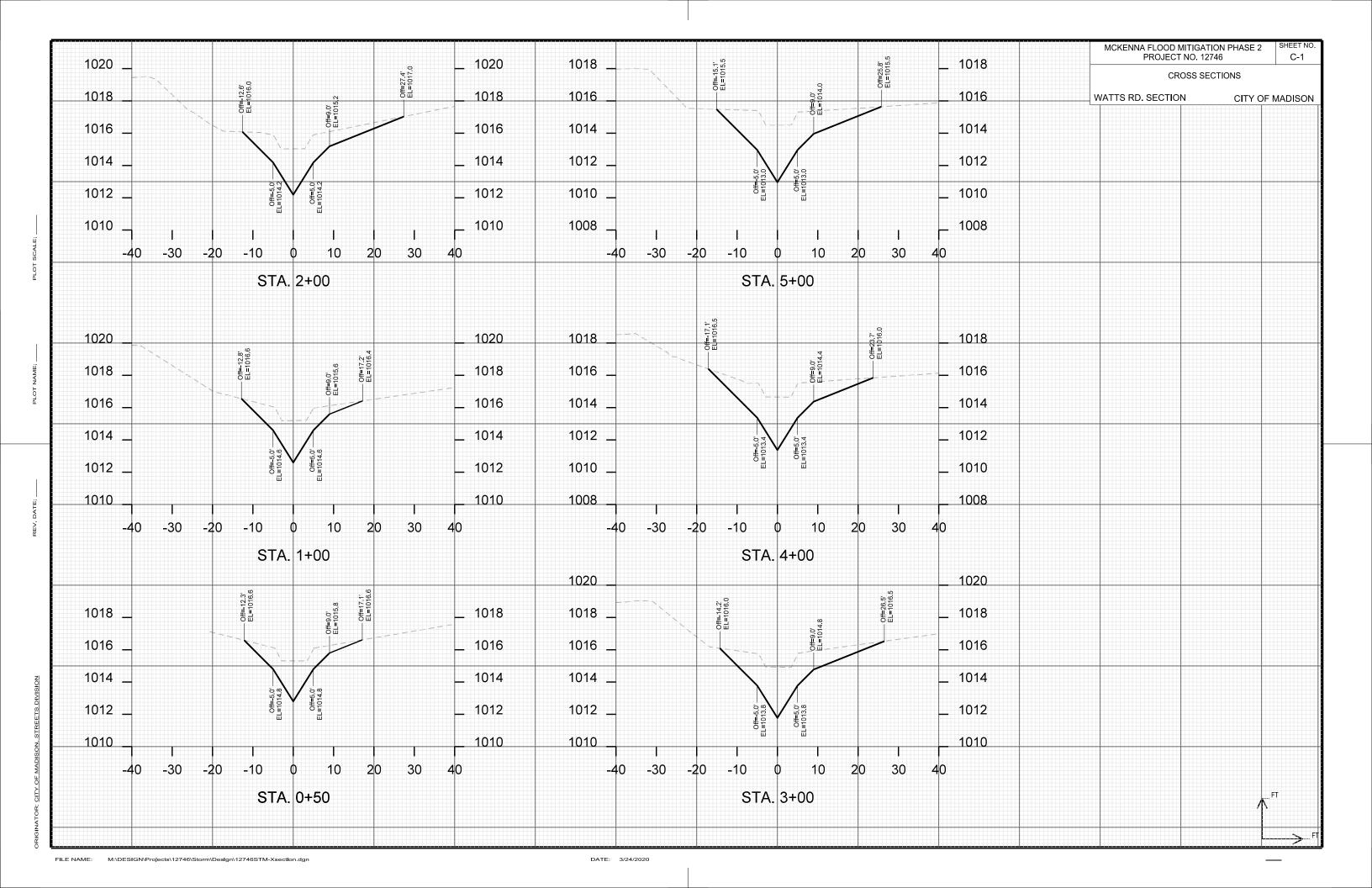
EXISTING UTILITY LINE OPENINGS (ULO)

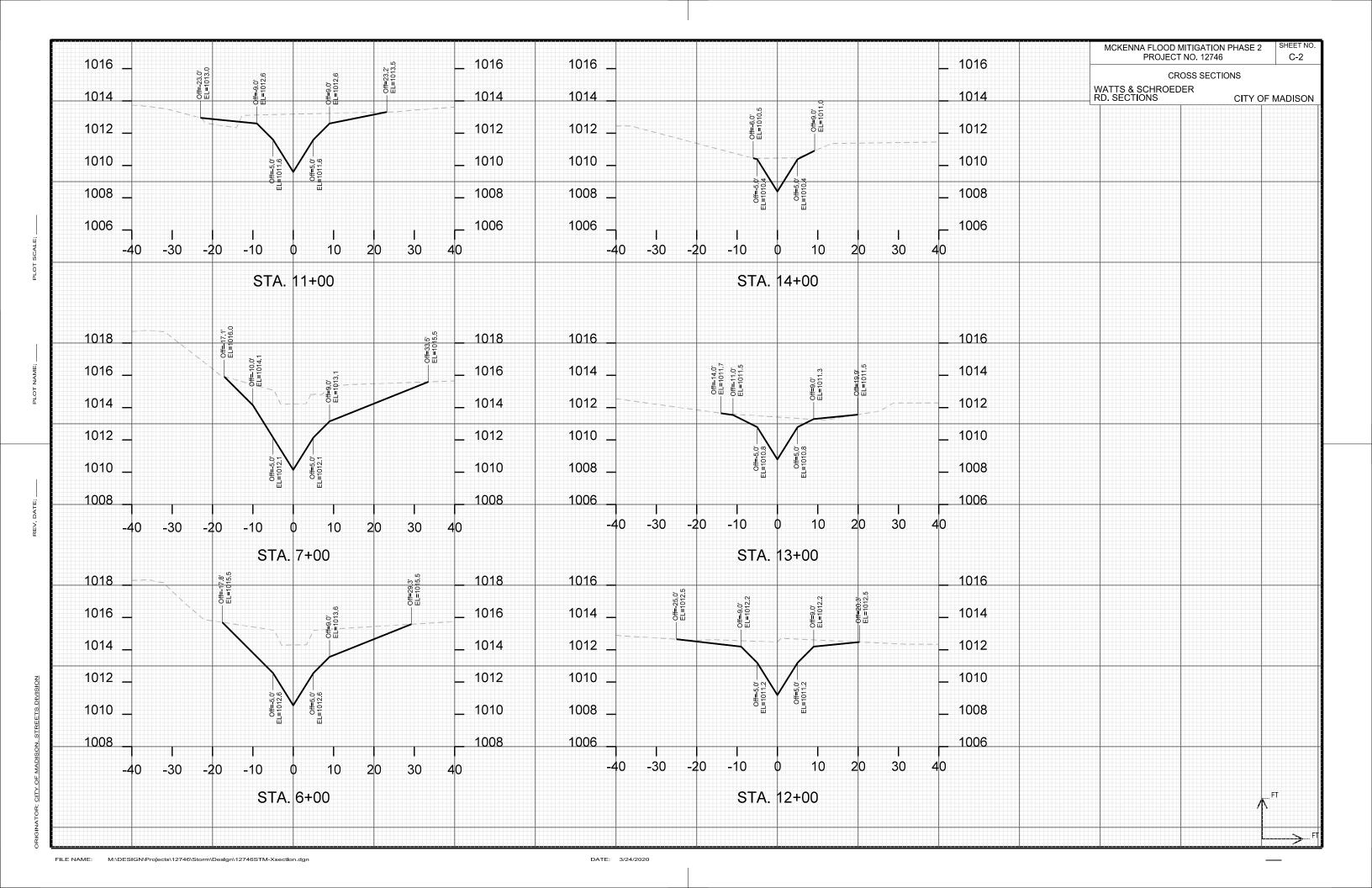
ULO	STATION	LOCATION	TYPE	TOP	NOTES
NO.		(OFFSET)		ELEV.	
SCHROE	DER ROAD				
ULO1	15+08.26	LT-31.4	TEL	1014.77	ANMW-1500 CABLE
ULO2	15+06.18	LT-27.7	ELEC	1017.74	-
ULO3	15+02.70	LT-32.3	TEL	1017.05	ANMW-1500 CABLE
ULO4	14+93.40	LT-0.6	TEL	1016.41	3"-4" PVC
ULO5	14+96.62	RT-31.6	TEL	1015.83	2"-4" PVC
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
GREENW	AY - WATTS RD.	SECTION			
ULO9	2+23.49	LT-5.3	ELEC		(elevation to be provided before pre-

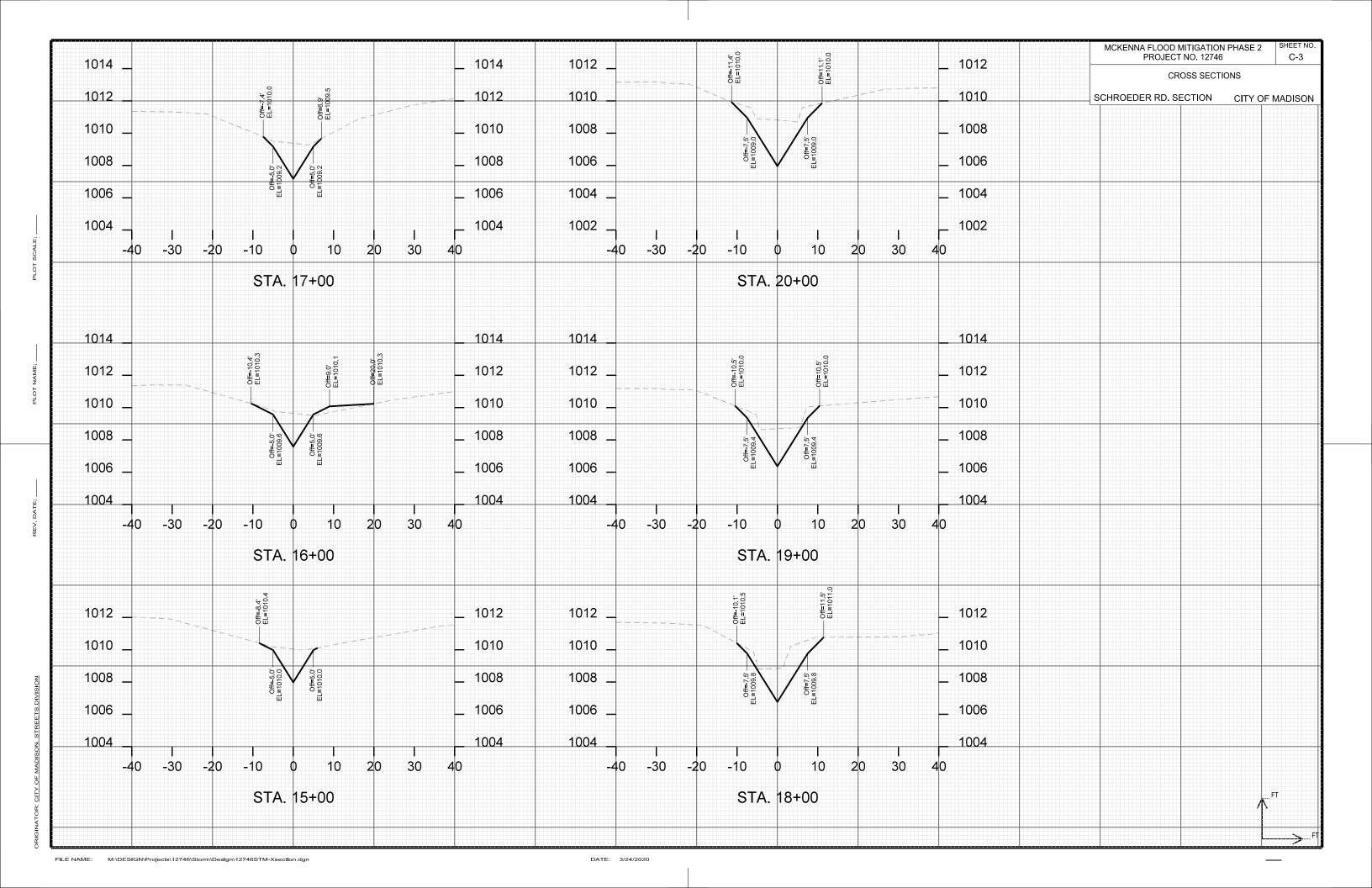
STANDARD NOTES:

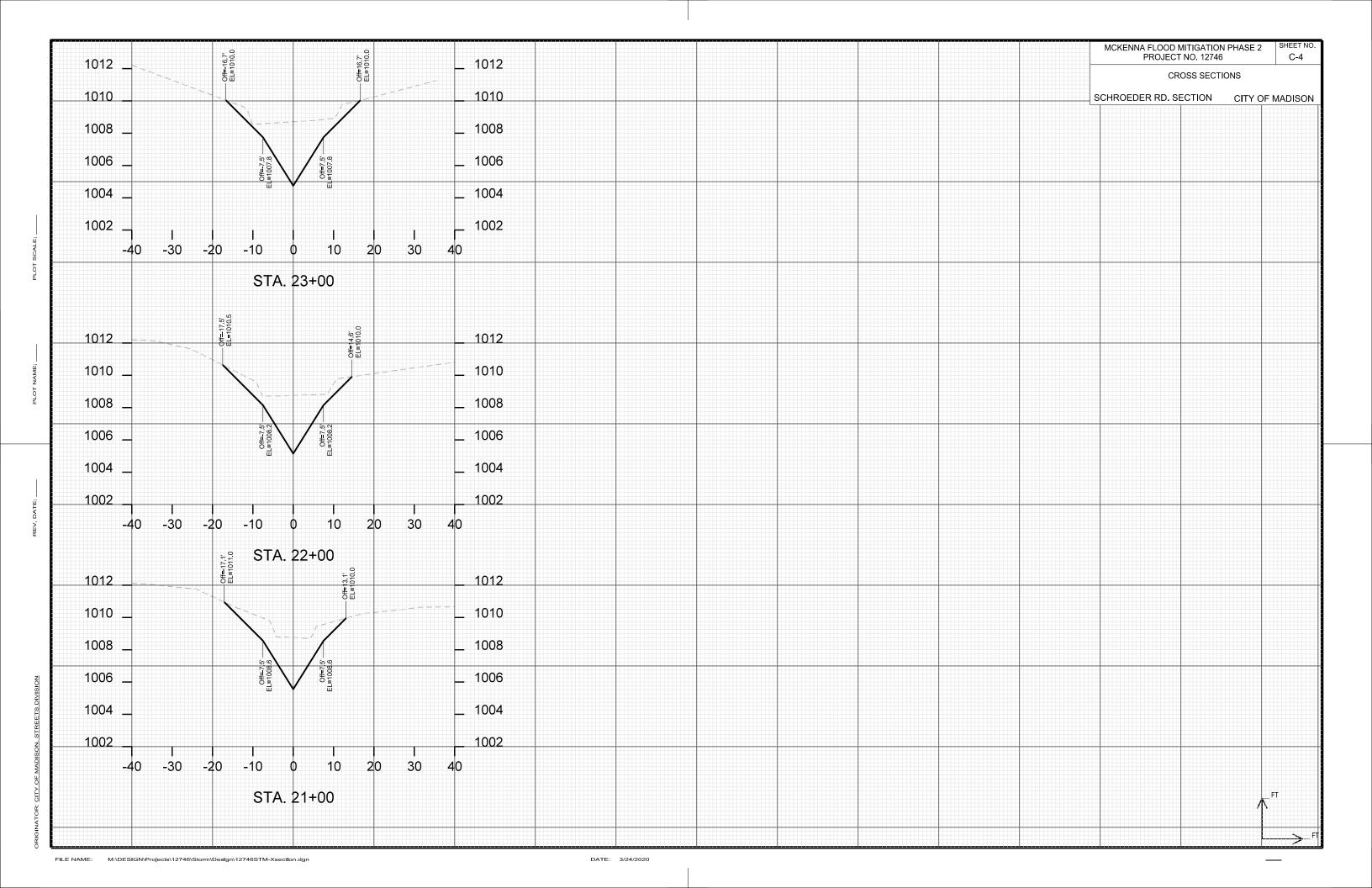
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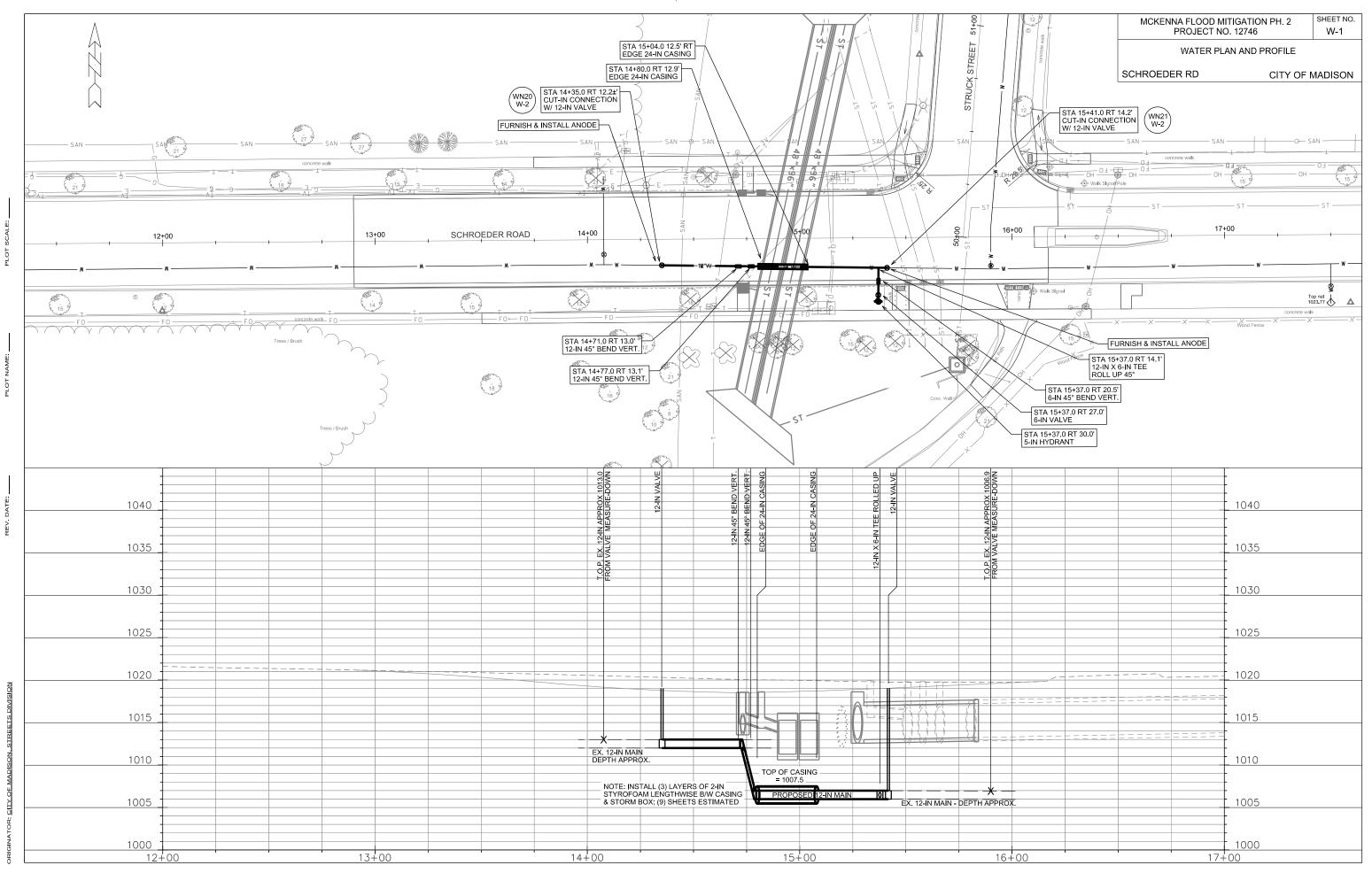
SPECIFIC NOTES

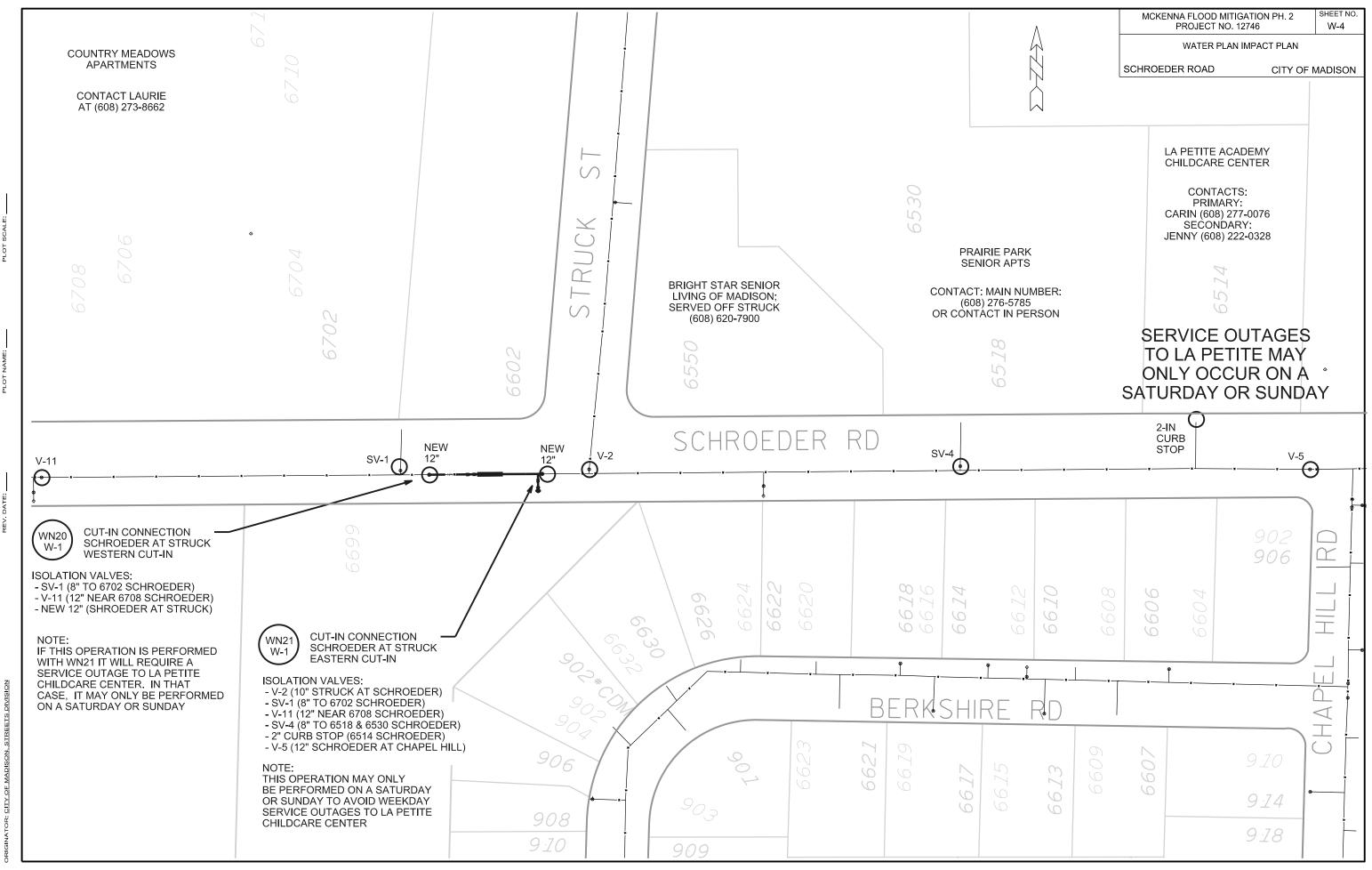












- VERIFY SIZE OF EXISTING
 WATER SERVICES AND RECONNECT SERVICES
 AS INDICATED.
- 3. MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
- 4. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER 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.

MCKENNA FLOOD MITIGATION PH. 2 PROJECT NO. 12746

WATER ESTIMATE OF MATERIALS

SCHROEDER ROAD

CITY OF MADISON

SHEET NO.

W-3

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 1 - 6-IN 45° BEND 2 - 12-IN 45° BEND

24-FT - 24-IN CASING

1 - 5-IN HYDRANT

1 - 6-IN VALVE & BOX

2 - ANODE

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

72-FT - 2-IN STYROFOAM INSULATION

150-FT - POLY WRAP

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

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

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



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

MATERIALS SUPPLIED BY CITY:

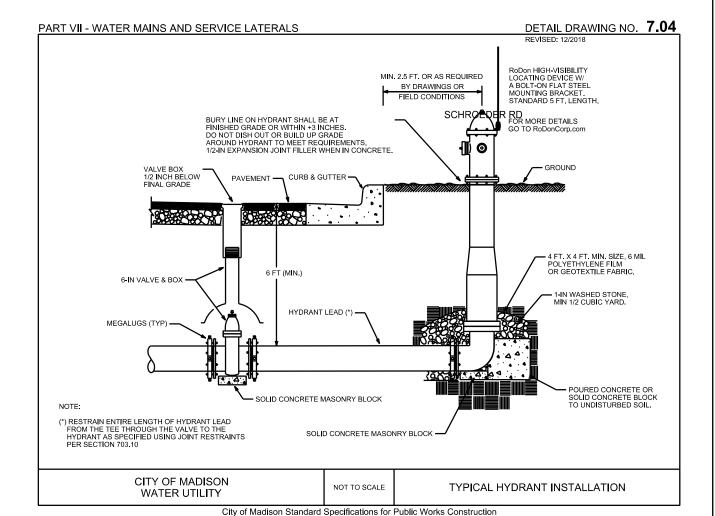
ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

NONE

ESTIMATE OF MATERIALS REUSED:

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

NONE



FILE NAME: M:\DESIGN\Projects\12746\Water\12746\WU-W3_Materlals.dgn

DATE: 3/11/2020

