

Madison, Wisconsin

INDEX OF SHEETS

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CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	■
COMBUSTIBLE FLUIDS	⚠

CONSTRUCTION
PROJECT LOCATION

NOTES:

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

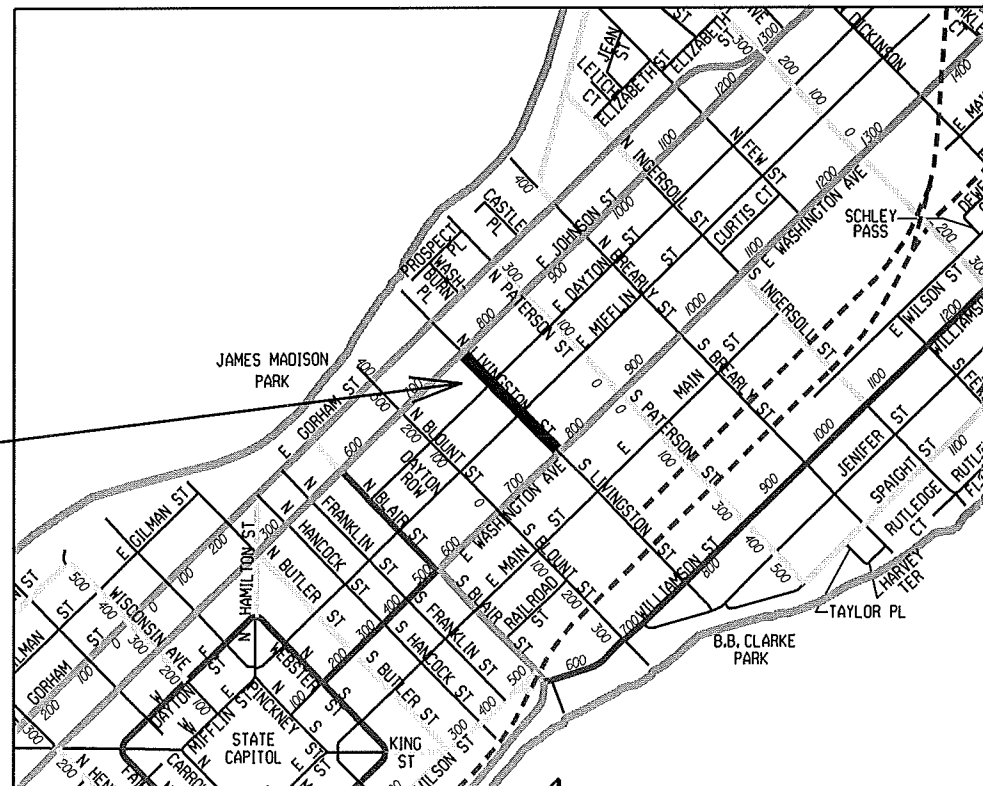
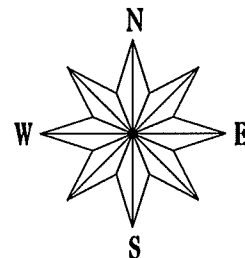
SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

CITY OF MADISON
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

NORTH LIVINGSTON STREET
ASSESSMENT DISTRICT - 2013

CITY PROJECT NO. 53W1462

CONTRACT NO. 6994



EARTH WORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY)..... 1801 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT..... 500 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT..... 2301 C.Y.

PUBLIC IMPROVEMENT PROJECT
APPROVED

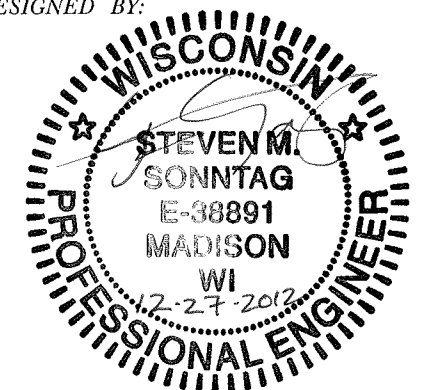
DECEMBER 11, 2012

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

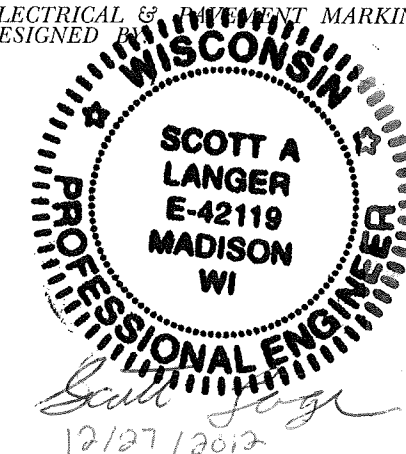
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Michael R. Dailey 12/28/12
For City Engineer Date

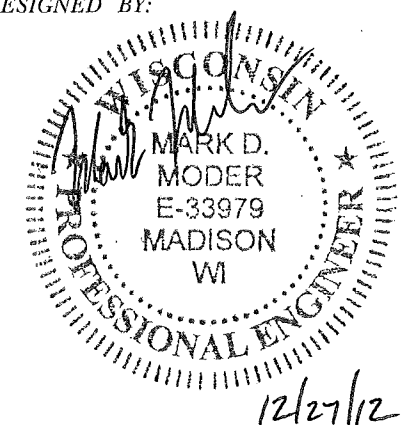
STREET
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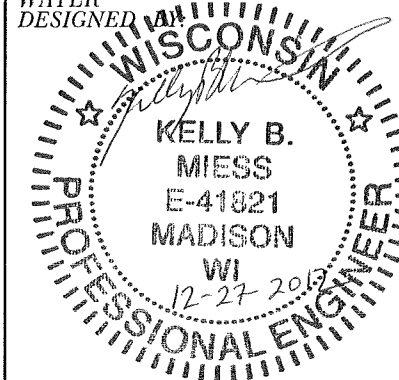
ELECTRICAL & PAVEMENT MARKINGS
DESIGNED BY:



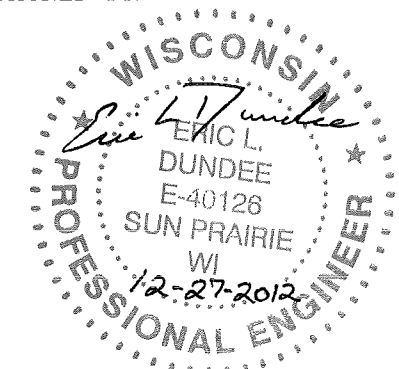
SANITARY SEWER
DESIGNED BY:

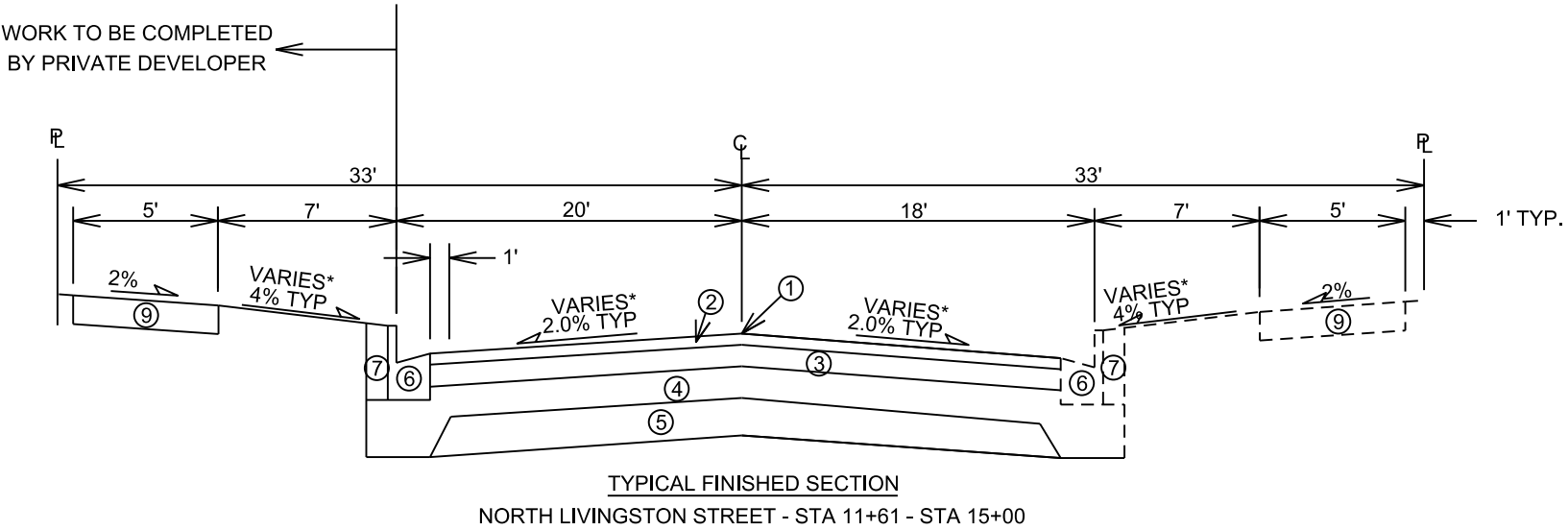


WATER
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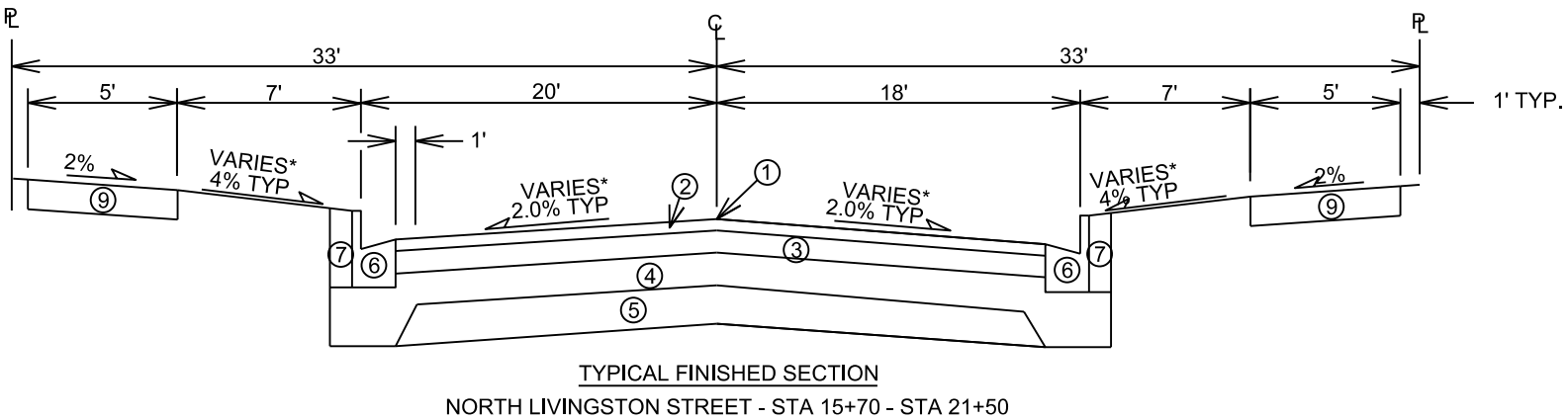
STORM SEWER
DESIGNED BY:





- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER, TYPE E-1
- ③ 2.25" BITUMINOUS LOWER LAYER, TYPE E-1
- ④ 4" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' OR 'X' CONCRETE CURB & GUTTER
- ⑦ FILL
- ⑧ 4" TOPSOIL, SEED & MAT
- ⑨ 5" CONCRETE SIDEWALK, REPLACE AS NOTED IN PLAN

* SEE CROSS SECTION SHEETS FOR CROSS SLOPES AND TOP OF CURB ELEVATIONS.
TYPICAL SECTIONS NOT TO SCALE

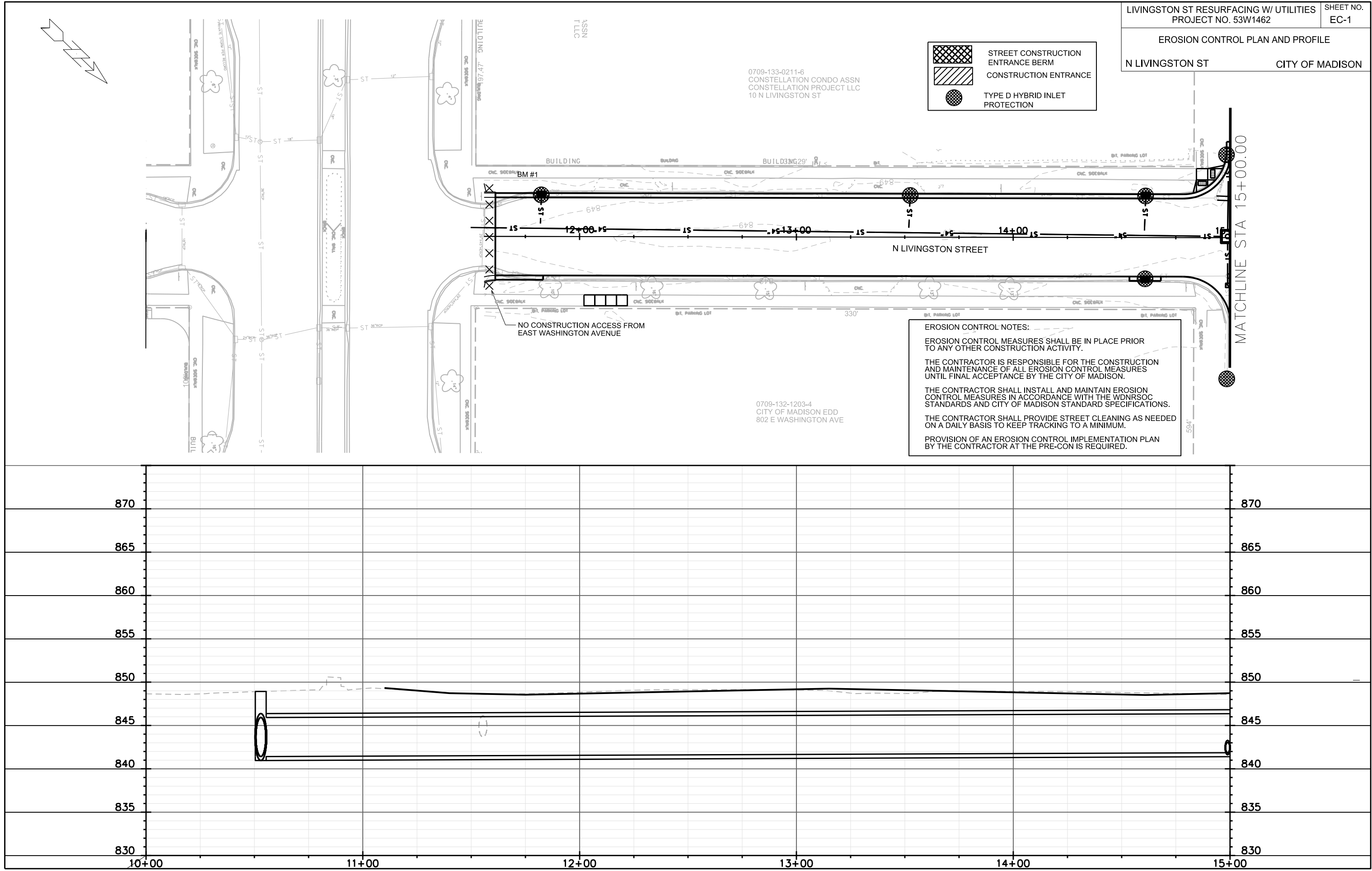


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

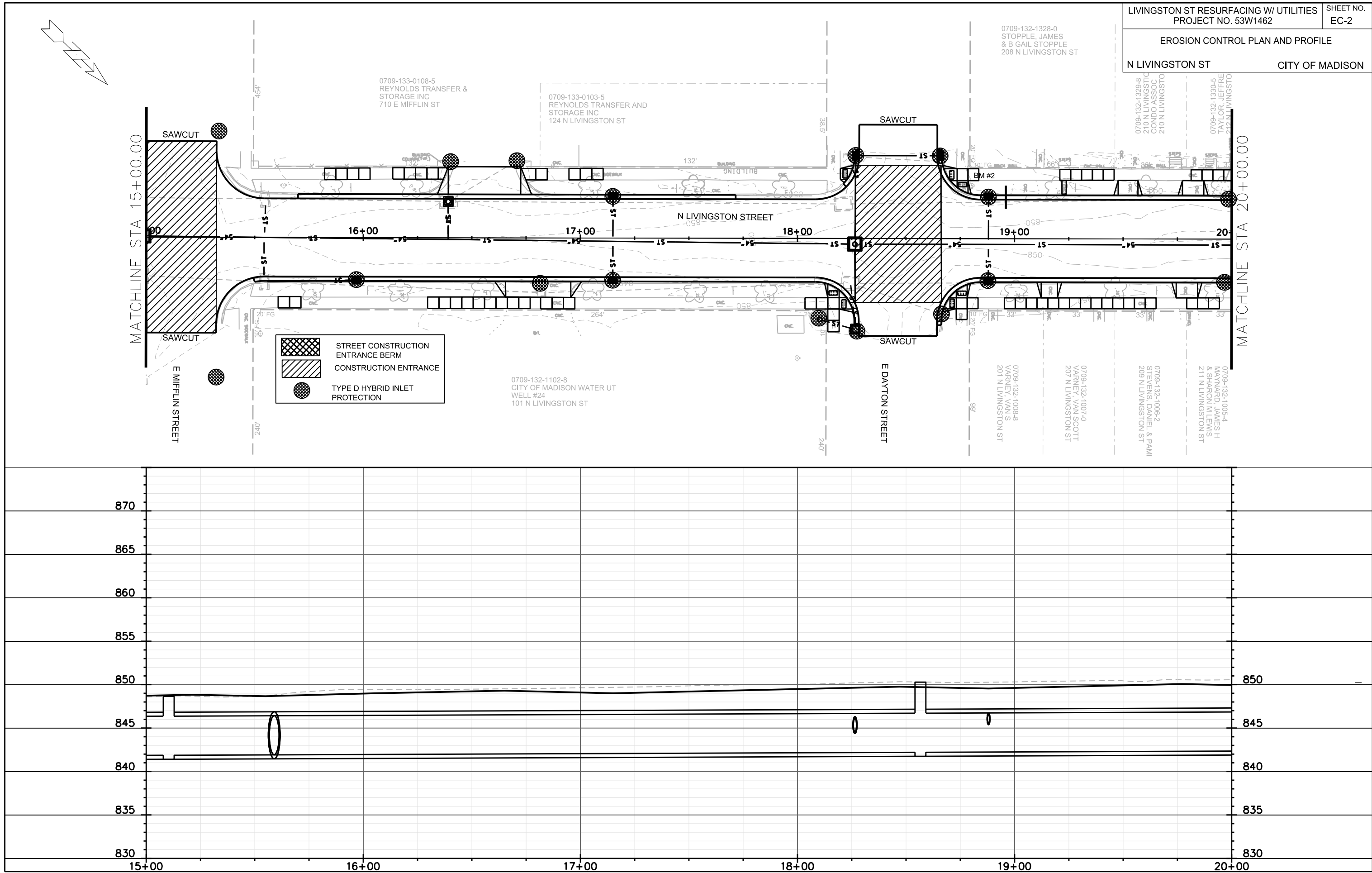


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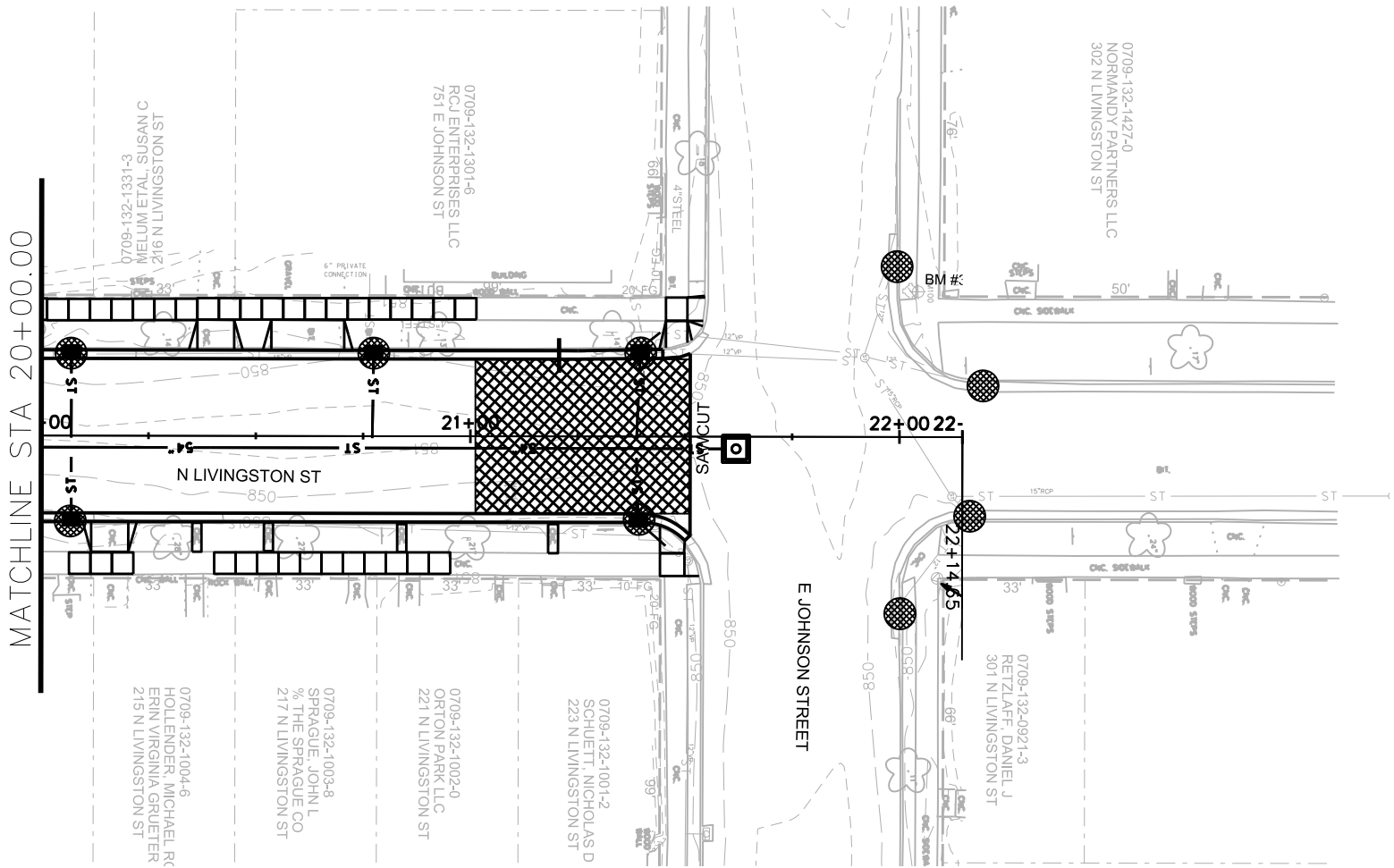
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

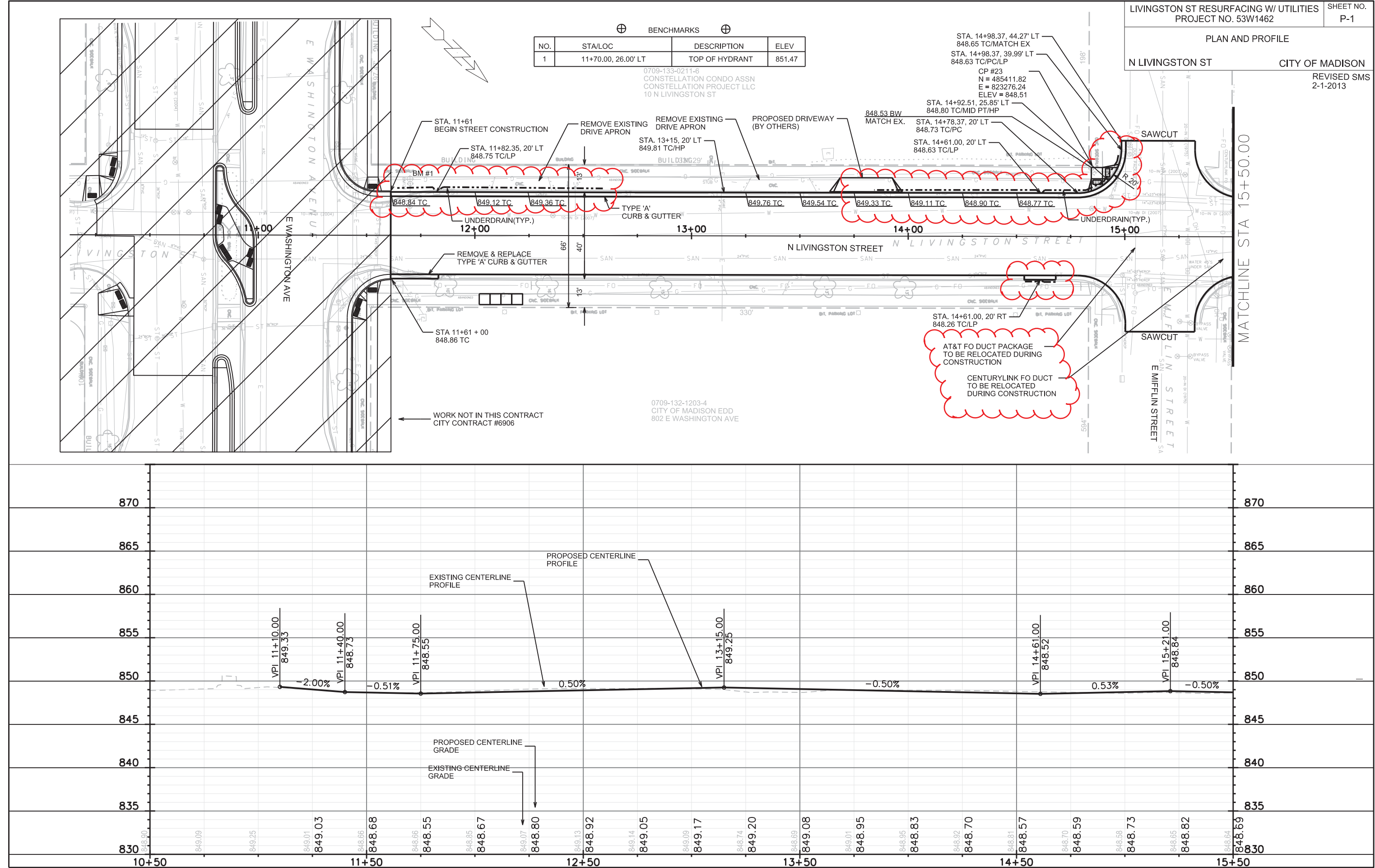


STREET CONSTRUCTION
ENTRANCE BERM

CONSTRUCTION ENTRANCE

TYPE D HYBRID INLET
PROTECTION





PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

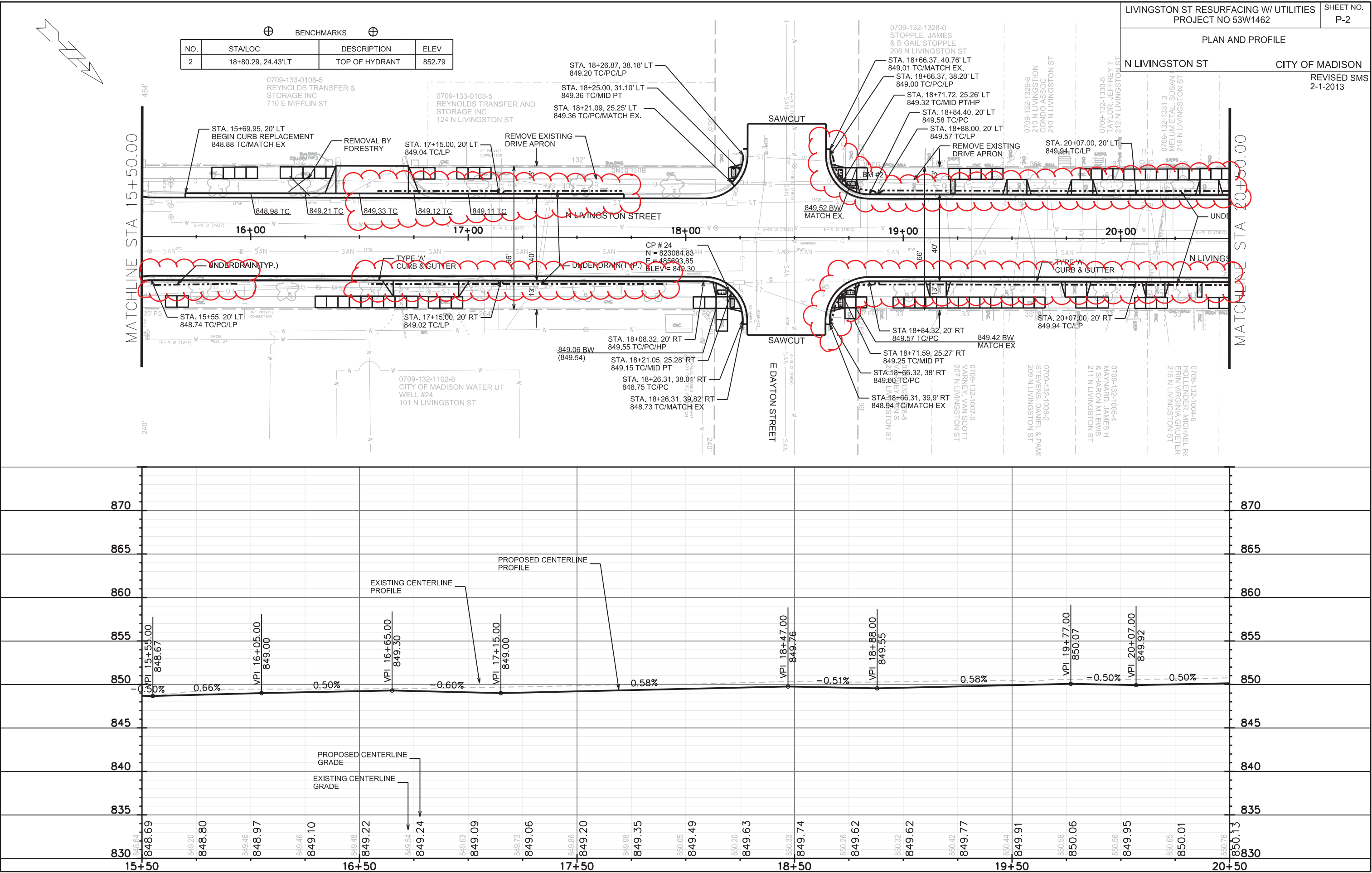
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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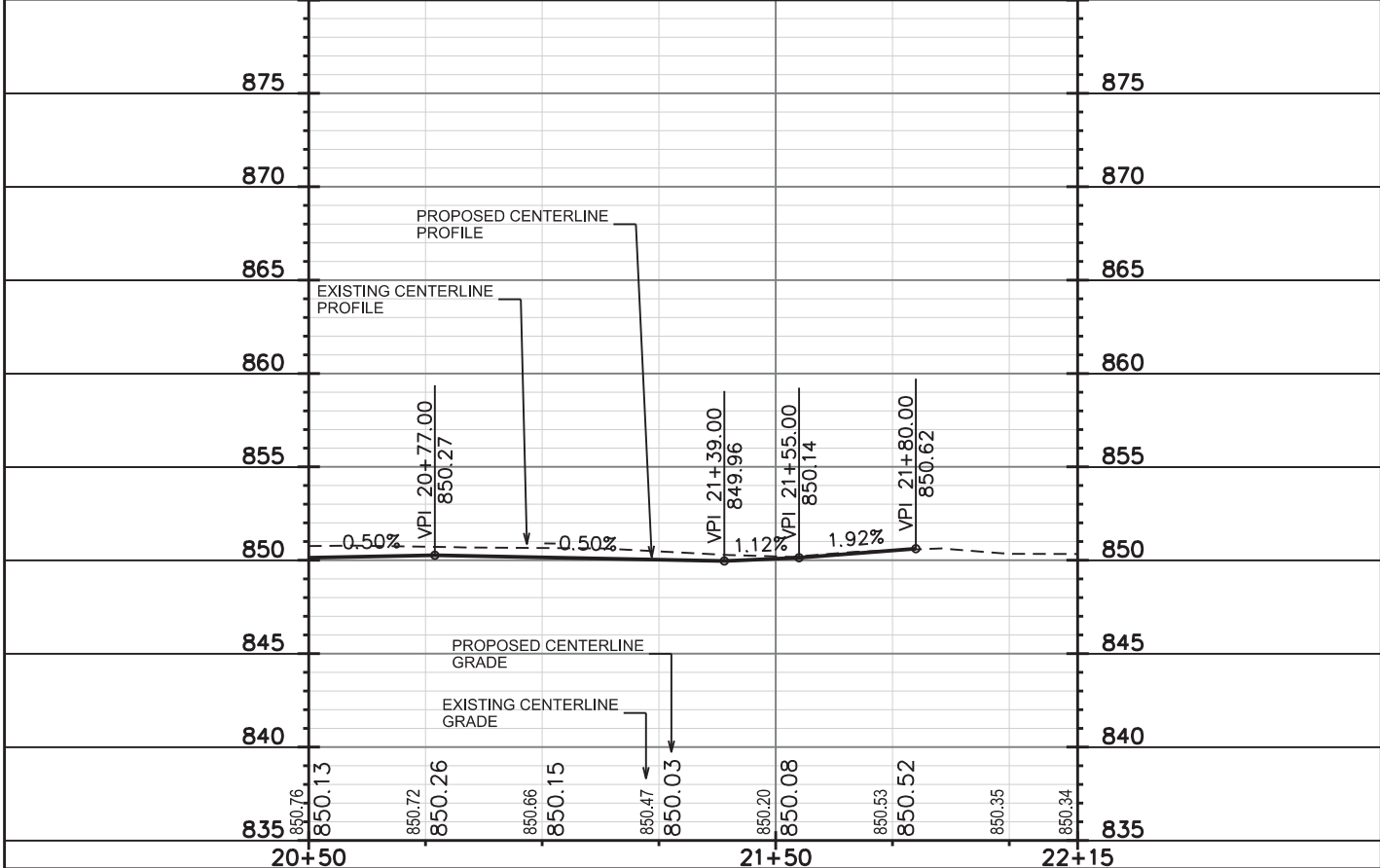
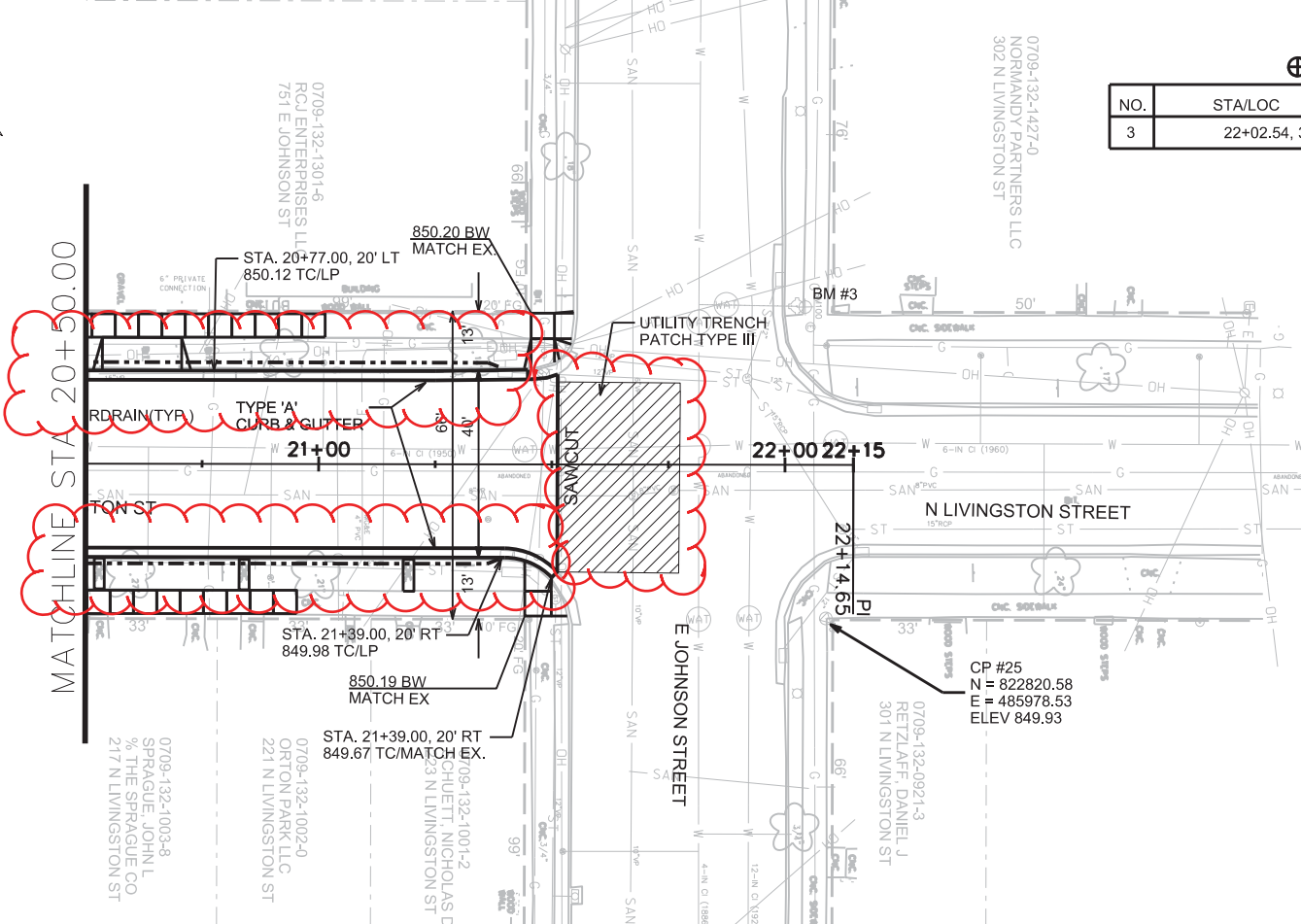
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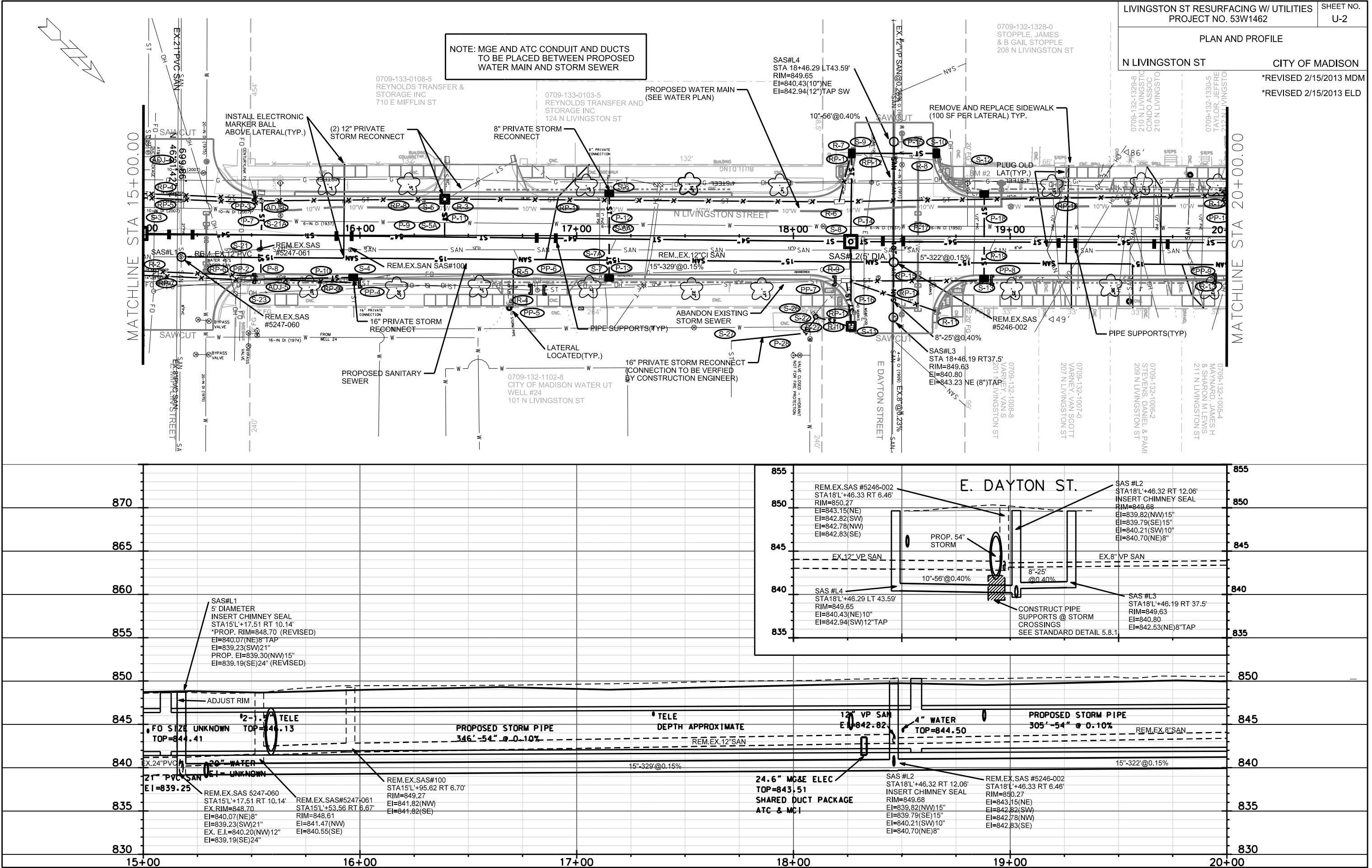
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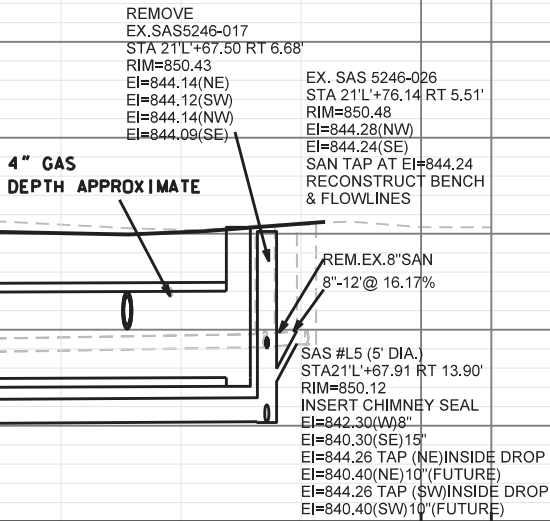
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NO.	STA/LOC	DESCRIPTION	ELEV
3	22+02.54, 34'LT	TOP OF HYDRANT	852.71







ORIGINATOR: CITY OF MADISON STREETS DIVISION

STORM SEWER SCHEDULE

ALIGNMENT CODES:

'L' = LIVINGSTON

REVISED 1/4/2013 ELD

REVISED 2/1/2013 ELD

LIVINGSTON ST RESRFACING W/ UTILITIES

SHEET NO.

PROJECT NO. 53W1462

U-4

UTILITIES

STORM SEWER SCHEDULE

CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	14'L'+61.00	LT-19.50	H INLET	848.17	845.27	2.90	LP; W/ R-3067-7004-VB
S-1A	14'L'+60.50	LT-3.80	TAP		844.08		(1)
S-2	14'L'+61.00	RT-19.50	H INLET	848.26	845.05	3.21	SADDLE INLET; LP; W/ R-3067-7004-VB
S-3	14'L'+98.88	LT-.58	5x5 SAS	848.66	841.87	6.79	FP, W/ R-1550-0054
S-4	15'L'+96.94	RT-19.50	H INLET	848.97	845.73	3.24	FP; W/ R-3067-7004-V; (2)
S-5	16'L'+39.11	LT-16.67	3x3 SAS	848.92	845.00	3.92	FP, W/ R-1550-0054; (2)
S-5A	16'L'+39.11	LT-1.67	TAP		844.25		(1)
S-6	17'L'+15.00	LT-19.50	H INLET	849.04	845.49	3.55	LP; W/ R-3067-7004-VB
S-6A	17'L'+15.00	LT-.55	TAP		844.33		(1)
S-7	17'L'+15.00	RT-19.50	H INLET	849.02	845.47	3.55	LP; W/ R-3067-7004-VB
S-7A	17'L'+15.00	RT-3.75	TAP		844.33		(1)
S-8	18'L'+26.44	RT-2.58	5x5 SAS	850.12	842.20	7.92	FP, W/ R-1550-0054
S-9	18'L'+26.87	LT-38.18	H INLET	849.20	844.97	4.23	LP; W/ R-3067-7004-VB
S-10	18'L'+65.85	LT-38.20	H INLET	849.00	845.84	3.16	LP; W/ R-3067-7004-VB
S-11	18'L'+26.70	RT-41.65	3x3 SAS	849.00	844.38	4.62	W/ R-3067-7004
S-12	18'L'+88.00	LT-19.50	H INLET	849.57	845.75	3.82	LP; W/ R-3067-7004-VB
S-12A	18'L'+88.00	CL	TAP		844.50		(1)
S-13	18'L'+88.00	RT-19.50	H INLET	849.57	845.70	3.87	LP; W/ R-3067-7004-VB
S-13A	18'L'+88.00	RT-4.50	TAP		844.50		(1)
S-14	20'L'+07.00	LT-19.50	H INLET	849.94	845.87	4.07	LP; W/ R-3067-7004-VB
S-14A	20'L'+07.00	LT-.50	TAP		844.60		(1)
S-15	20'L'+07.00	RT-19.50	H INLET	849.94	845.82	4.12	LP; W/ R-3067-7004-VB
S-15A	20'L'+07.00	RT-4.00	TAP		844.60		(1)
S-16	20'L'+77.50	LT-19.50	H INLET	850.12	845.94	4.18	W/ R-3067-7004-V; (2)
S-16A	20'L'+77.50	LT-.50	TAP		844.68		(1)
S-17	21'L'+39.58	LT-19.50	H INLET	849.98	845.44	4.54	LP; W/ R-3067-7004-VB
S-17A	21'L'+39.00	LT-.50	TAP		844.75		(1)
S-18	21'L'+39.12	RT-19.50	H INLET	849.98	845.50	4.48	LP; W/ R-3067-7004-VB
S-18A	21'L'+38.62	RT-4.00	TAP		844.75		(1)
S-19	21'L'+61.92	RT-2.82	6x6 SAS	850.34	842.51	7.83	W/ R-1550-0054
S-20	11'L'+81.84	LT-6.00	TAP		843.08		(1)
S-20A	13'L'+51.65	RT-4.30	TAP		843.97		(1)
S-21	15'L'+53.00	RT-2.45	TAP		844.22		(1)
S-21A	15'L'+54.50	LT-2.96	TAP		844.22		(1)
S-22	18'L'+10.36	RT-37.30	24" STANDPIPE	849.10	845.00	4.10	SPECIAL ITEM 90161
S-23	15'L'+54.50	LT-20.50	TAP(2)		845.53		(1)
S-24	11'L'+81.84	LT-18.00	TAP		844.70		(1)
S-25	13'L'+52.60	LT-18.00	TAP		845.46		(1)
S-26	18'L'+10.36	RT-37.30	TAP		845.25		
S-27	17'L'+71.41	RT-48.50	CONCRETE COLLAR				CONNECT TO EXISTING

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	EX. 54"	S-3	441	841.42	841.87	0.10%	54"	RCP	
P-2	S-20	ADJ-1	14	843.80	844.70	6.43%	12"	RCP	
P-3	S-20A	ADJ-2	15	843.97	845.46	9.93%	12"	RCP	
P-4	S-1A	S-1	17	844.08	845.27	7.01%	12"	RCP	
P-5	S-3	ADJ-3	37	841.87	845.70	10.34%	14"x23"	HERCP	COLLAR
P-6	S-3	CC-1	22	841.87	845.20	15.13%	14"x23"	HERCP	COLLAR
P-7	S-21A	IN 5247-163	14	844.22	845.65	10.21%	12"	RCP	
P-8	S-21	IN 5247-180	17	844.22	845.55	7.82%	18"	RCP	
P-9	S-3	S-8	328	841.87	842.20	0.10%	54"	RCP	
P-10	IN 5247-180	S-4	43	845.53	845.73	0.47%	18"	RCP	
P-11	S-5A	S-5	16	844.25	845.00	4.69%	15"	RCP	
P-12	S-6A	S-6	19	844.33	845.49	6.11%	12"	RCP	
P-13	S-7A	S-7	16	844.33	845.47	7.12%	12"	RCP	
P-14	S-8	S-9	41	844.60	844.97	0.90%	18"	RCP	
P-15	S-9	S-10	40	845.47	845.84	0.93%	12"	RCP	
P-16	S-8	S-11	40	844.20	844.38	0.45%	24"	RCP	
P-17	S-8	S-19	337	842.20	842.51	0.09%	54"	RCP	
P-18	S-12A	S-12	20	844.50	845.75	6.25%	12"	RCP	
P-19	S-13A	S-13	16	844.50	845.70	7.50%	12"	RCP	
P-20	S-14A	S-14	20	844.60	845.87	6.35%	12"	RCP	
P-21	S-15A	S-15	20	844.60	845.82	6.10%	12"	RCP	
P-22	S-16A	S-16	20	844.68	845.94	6.30%	12"	RCP	
P-23	S-17A	S-17	22	844.75	845.44	3.14%	18"	RCP	
P-24	S-17	EX. PIPE	8				12"	PVC	COLLAR
P-25	S-18A	S-18	16	845.00	845.50	3.13%	18"	RCP	
P-26	S-18	EX. PIPE	8				12"	PVC	COLLAR
P-27	S-11	S-22	16	844.38	845.00	3.88%	24"	RCP	
P-28	S-26	S-27	43			0.00%			

STANDARD NOTES:

- 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

- 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 ERIC DUNDEE OF CITY ENGINEERING AT (608) 266-4913 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

SPECIFIC NOTES

~~(1) EI OF TAP AT 54" RCP TO BE 3" ABOVE 54" RCP SPRINGLINE~~

(2) CONNECT PRIVATE DRAIN - BID ITEM 90031

ORIGINATOR: CITY OF MADISON STREET'S DIVISION

PLOT SCALE: ---

PLOT NAME: ---

REV. DATE: ---

STORM SEWER REMOVAL SCHEDULE

ALIGNMENT CODES:

'L' = LIVINGSTON

LIVINGSTON ST RESURFACING W/ UTILITIES	SHEET NO.
PROJECT NO. 53W1462	U-5

STORM SEWER REMOVAL SCHEDULE	CITY OF MADISON
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STORM SEWER STRUCTURE REMOVALS

STRUCTURE REMOVAL NO.	STRUC. ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
R-1	CB 5247-161	14'L'+93.58	LT-19.50	CB	
R-2	AS 5247-179	14'L'+99.07	RT-18.00	6x3 BOX	
R-3	AS 5247-063	16'L'+38.97	LT-17.00	7x5 BOX	
R-4	AS 5246-001	16'L'+82.10	RT-25.50	3x3 BOX	
R-5	AS 5246-002	16'L'+82.00	RT-20.50	H INLET	
R-6	AS 5246-057	18'L'+21.07	LT-15.87	7x5 BOX	
R-7	AS 5246-065	18'L'+26.11	LT-37.58	H INLET	
R-8	IN 5246-064	18'L'+65.81	LT-35.36	H INLET	
R-9	AS 5246-058	18'L'+24.77	RT-20.65	7x5 BOX	
R-10	IN 5246-063	18'L'+27.43	RT-42.87	H INLET	
R-11	IN 5246-062	18'L'+66.32	RT-34.62	H INLET	
R-12	IN 5246-061	20'L'+01.23	LT-18.50	H INLET	
R-13	AS 5246-059	19'L'+97.15	RT-19.50	3x3 BOX	
R-14	AS 5246-048	21'L'+39.86	LT-23.33	7x5 BOX	
R-15	AS 5246-047	21'L'+41.97	RT-23.13	7x5 BOX	
R-16	IN 5247-129	11'L'+55.40	LT-14.00	6x6 BOX	

STORM SEWER STRUCTURE ADJUSTS

STRUCTURE REMOVAL NO.	STRUC. ID NO.	STATION	LOCATION (OFFSET)	TYPE	EX. TOP O CASTING	ADJ TOP OF CASTING
ADJ-1	IN 5247-130	11'L'+82.17	LT-19.50	H INLET	848.60	849.00
ADJ-2		13'L'+52.25	LT-19.50	H INLET	849.12	849.62
ADJ-3	IN 5247-162	14'L'+98.55	LT-38.10	H INLET	848.32	848.64
ADJ-4		15'L'+00.82	LT-38.00	SAS	848.32	848.64
ADJ-5	IN 5247-163	15'L'+54.60	LT-15.85	H INLET	848.78	848.74
ADJ-6	IN 5247-180	15'L'+55.00	RT-20.00	SAS	848.36	848.36

STORM SEWER PIPE PLUGS

PIPE PLUG NO.	STATION	LOCATION (OFFSET)	PIPE SIZE	NOTES
PP-1	14'L'+63.86	RT-18.00	24"	RCP
PP-2	15'L'+51.56	LT-19.50	14"x23"	HERCP (2)
PP-3	15'L'+52.01	RT-20.00	14"x23"	HERCP (2)
PP-4	16'L'+00.00	LT-18.00	12"	VP
PP-5	16'L'+79.11	RT-22.00	12"	VP
PP-6	16'L'+84.50	RT-25.10	12"	VP
PP-7	18'L'+19.25	RT-24.90	12"	VP
PP-8	18'L'+91.75	RT-20.85	12"	VP
PP-9	19'L'+94.60	RT-20.15	12"	VP
PP-10	19'L'+98.90	RT-19.75	12"	VP
PP-11	20'L'+10.50	LT-18.50	12"	VP
PP-12	20'L'+10.33	LT-18.65	12"	VP
PP-13	21'L'+37+00	RT-22.85	12"	VP
PP-14	21'L'+37.30	LT-19.87	12"	VP

SPECIFIC NOTES

PIPES

PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	PIPE SIZE	NOTES
RP-1	ADJ-2	ADJ-1	170	Y	24"	
RP-2	R-1	ADJ-2	142	Y	24"	
RP-3	ADJ-3	R-1	17	Y	14"x23"	HERCP
RP-4	IN 5247-163	R-1	58	Y	14"x23"	HERCP
RP-5	IN 5247-163	R-1	58	Y	14"x23"	HERCP
RP-6	IN 5247-180	R-2	54	Y	14"x23"	HERCP
RP-7	IN 5247-180	R-2	54	Y	14"x23"	HERCP
RP-8	R-3	IN 5247-16	86	Y	18"	
RP-9	R-4	IN 5247-18	129	N	12"	
RP-10	R-6	R-3	184	Y	18"	
RP-11	R-7	R-6	24	N	12"	
RP-12	R-8	R-7	41	N	12"	
RP-13	R-10	R-9	24	N	12"	
RP-14	R-11	R-9	45	Y	12"	
RP-15	S-13	R-9	62	N	12"	
RP-16	R-12	R-6	181	Y	15"	
RP-17	R-16	PLUG	29.00	Y	29"x45"	HERCP
RP-18	ADJ-1	RP16	25	Y	24"	

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- 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 CONC
- 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 MAX CONWAY OF CITY ENGINEERING AT (608) 261-9127 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

SANITARY SCHEDULE

ALIGNMENT CODES:

'L'- N LIVINGSTON STREET

N. LIVINGSTON
PROJECT NO. 53W1462

SHEET NO.
U-6

SANITARY SEWER SCHEDULE CITY OF MADISON
* REVISED 2/15/13 MDM

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
* SAS#L1	15'L'+17.51	RT-10.14	848.70	839.19	9.51	5' DIA.,(1)
SAS#L2	18'L'+46.32	RT-12.06	849.68	839.79	9.89	(1)
SAS#L3	18'L'+46.19	RT-37.50	849.63	840.80	8.83	
SAS#L4	18'L'+46.29	LT-43.59	849.65	840.43	9.22	
SAS#L5	21'L'+67.91	RT-13.90	850.12	840.30	9.82	5' DIA.,(1), TWO INSIDE DROPS(3.44 V.F. EACH)

PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES
SAS#L1	SASL#2	839.30	839.79	329	0.15%	15"	SDR-35	
SAS#L2	SASL#4	840.21	840.43	56	0.39%	8"	SDR-35	
SAS#L2	SAS#L3	840.70	840.80	25	0.40%	10"	SDR-35	
SAS#L2	SAS#L5	839.82	840.30	322	0.15%	15"	SDR-35	
SAS#L5	5246-026	842.30	844.24	12	16.17%	8"	SDR-35	
SAS#L5	21'L'+67.46 RT0.51'	844.26	844.36	14	0.71%	6"	SDR-35	COMPRESSION COUPLING

SANITARY SEWER PIPE REMOVAL

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	LENGTH Feet	PAID (Y/N)	SIZE (DIA in)	PIPE TYPE	NOTES
5247-060	5246-061	36.00	N	15"	PVC	
5247-061	EX.SAS#100	42.00	N	12"	CAST IRON	INCIDENTAL TO 54" STM INSTALL
EX.SAS#100	5246-002	306.00	N	12"	CAST IRON	INCIDENTAL TO 54" STM INSTALL
5246-002	5246-017	95.00	N	8"	VP	INCIDENTAL TO 54" STM INSTALL
5246-002	SAS#L3	31.00	N	8"	VP	
5246-002	SAS#L4	50.00	N	12"	VP	
5246-017	STA 21'L'+67.46 RT0.51'	6.00	N	6"	VP	
5246-017	SAS#L5	7.00	N	10"	VP	
5246-017	5246-026	9.00	N	8"	PVC	

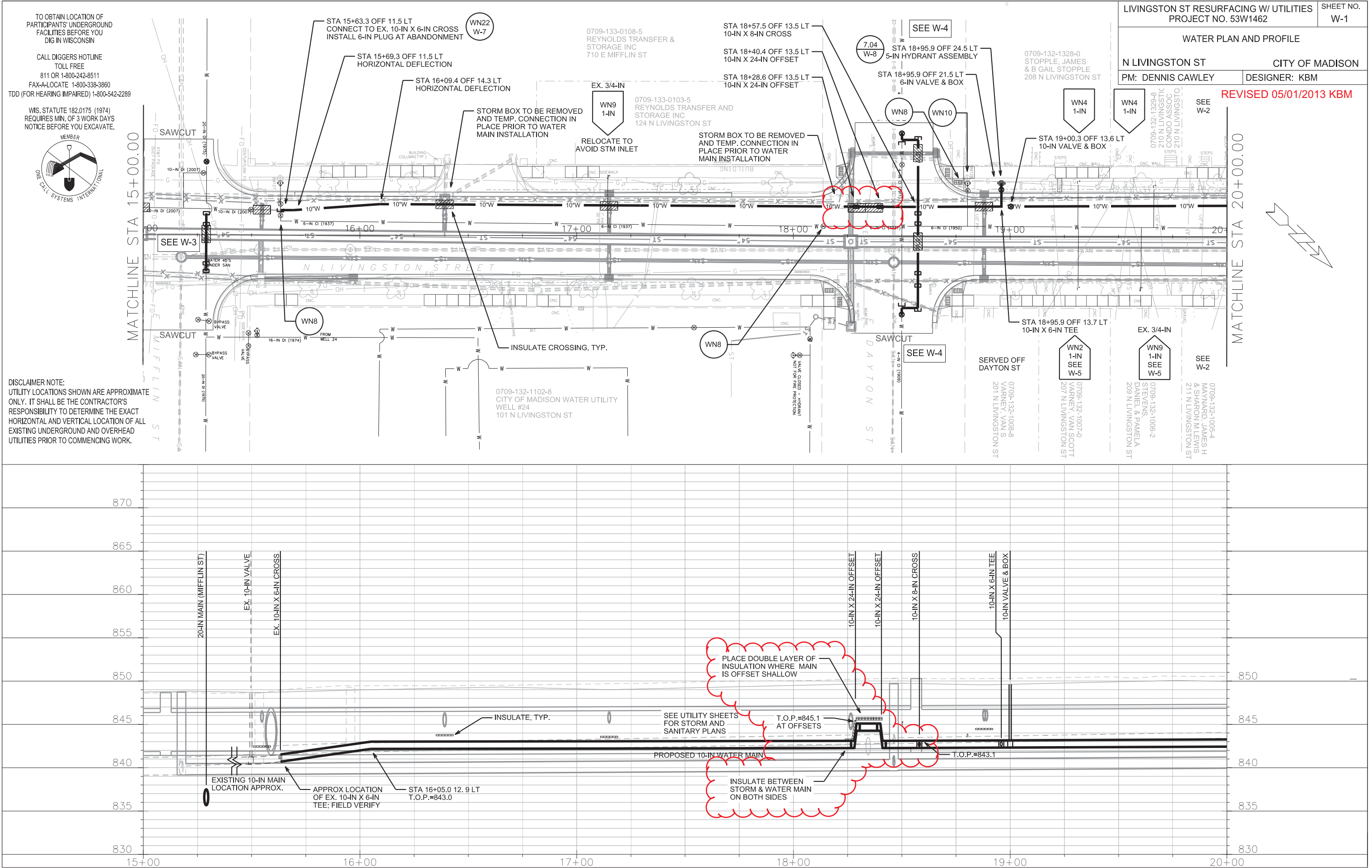
REMOVE SEWER ACCESS STRUCTURES

STRUCTURE	STATION	LOCATION (OFFSET)	RIM	EI	DEPTH	NOTES
5247-060	15'L'+17.51	RT-10.14	848.7	839.13	9.57	
5247-061	15'L'+53.56	RT-6.67	848.61	840.55	8.06	
EX.SAS	15'L'+95.62	RT-6.70	849.27	841.82	7.45	
5246-002	18'L'+46.33	RT-6.46	850.27	842.78	7.49	
5246-017	21'L'+67.50	RT-6.68	850.43	844.14	6.29	

ADJUST SANITARY STRUCTURES

STRUCTURE	STATION	LOCATION (OFFSET)	EX. ADJ.HT (FT)	EX. RIM	PROP. RIM	NOTES
5247-053	12'L'+11.71	RT-10.48	1.250	848.87	848.53	(1)

NOTES:
* (1) CHIMNEY SEAL REQUIRED

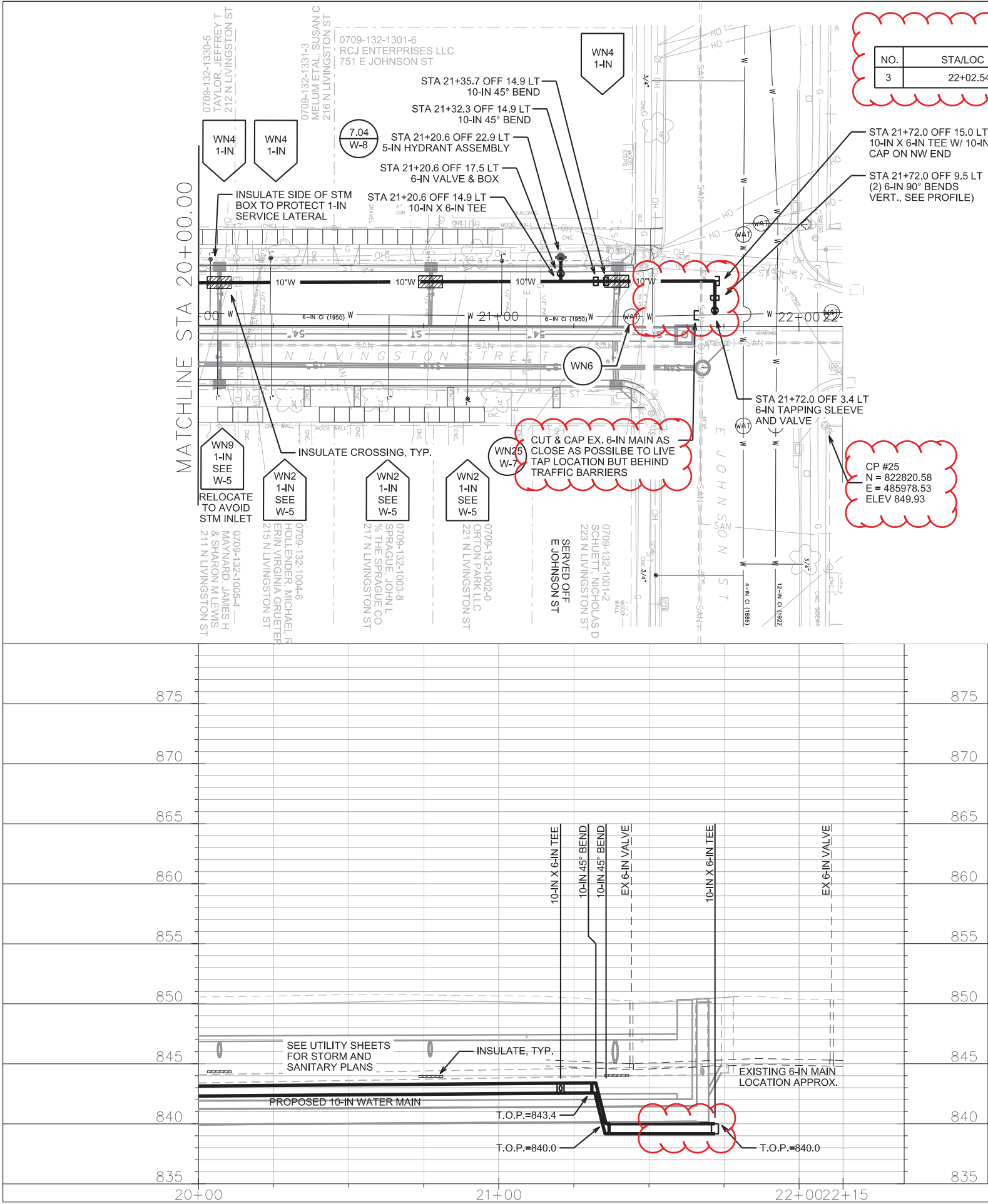


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

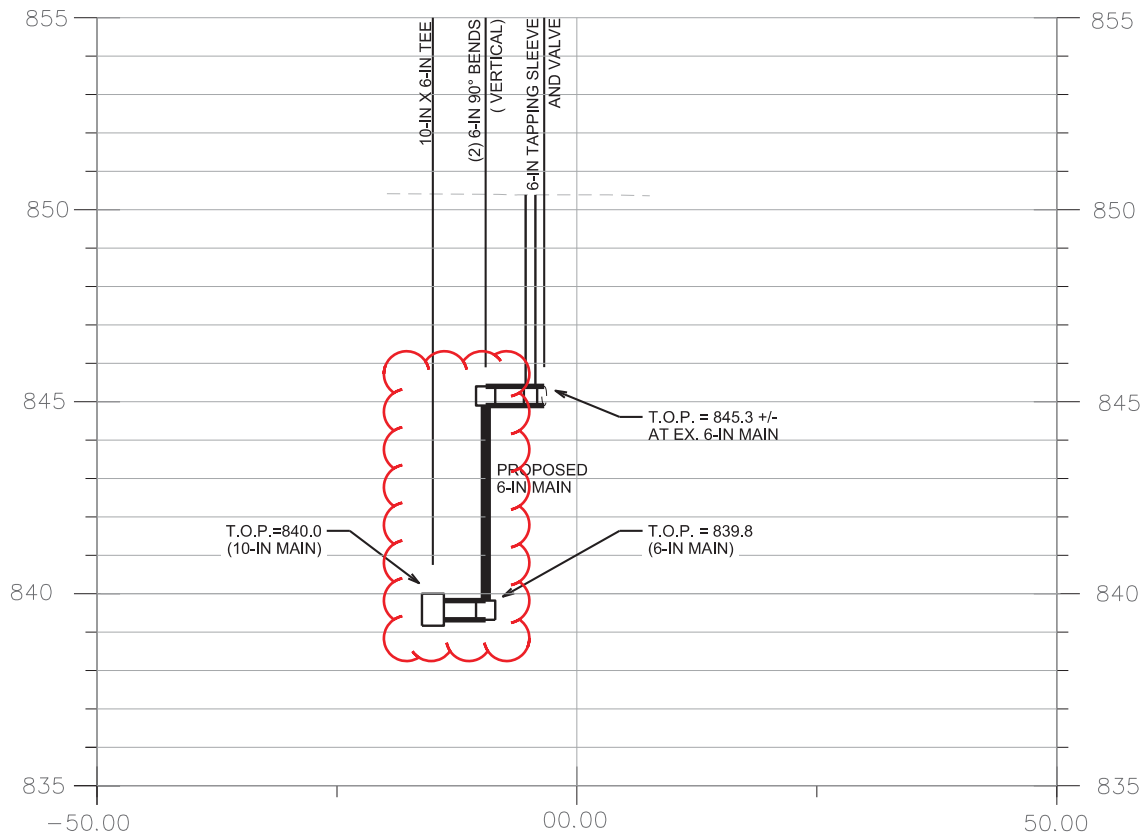


BENCHMARKS			
NO.	STA/LOC	DESCRIPTION	ELEV
3	22+02.54, 34'LT	TOP OF HYDRANT	852.71

WATER INSTALLATION NOTES:

- 1) ALL WATER-RELATED WORK REQUIRING TRAFFIC LANE CLOSURE ON E JOHNSON STREET THAT OCCURS OUTSIDE OF THE TRAFFIC CONTROL PROJECT BOUNDARY SHOWN ON SHEET TC-1 OR THAT DEVIATES FROM THE TRAFFIC CONTROL PLAN SHALL OCCUR ONLY DURING THE NON-PEAK TRAVEL HOURS OF 8:30AM TO 3:00PM. THE TRAFFIC CONTROL PLAN MUST BE COMPLETELY REESTABLISHED TO TWO LANE TRAFFIC BY 3:00PM EACH DAY.
- 2) COORDINATE THE LIVE TAPPING OF THE 6-IN MAIN WITH THE WATER UTILITY INSPECTOR. PROVIDE A MINIMUM OF 72 HOURS NOTICE.

E. JOHNSON PROFILE DETAIL STA 21+72.0
SCALE = 1" = 20'



REVISED 2/14/2013

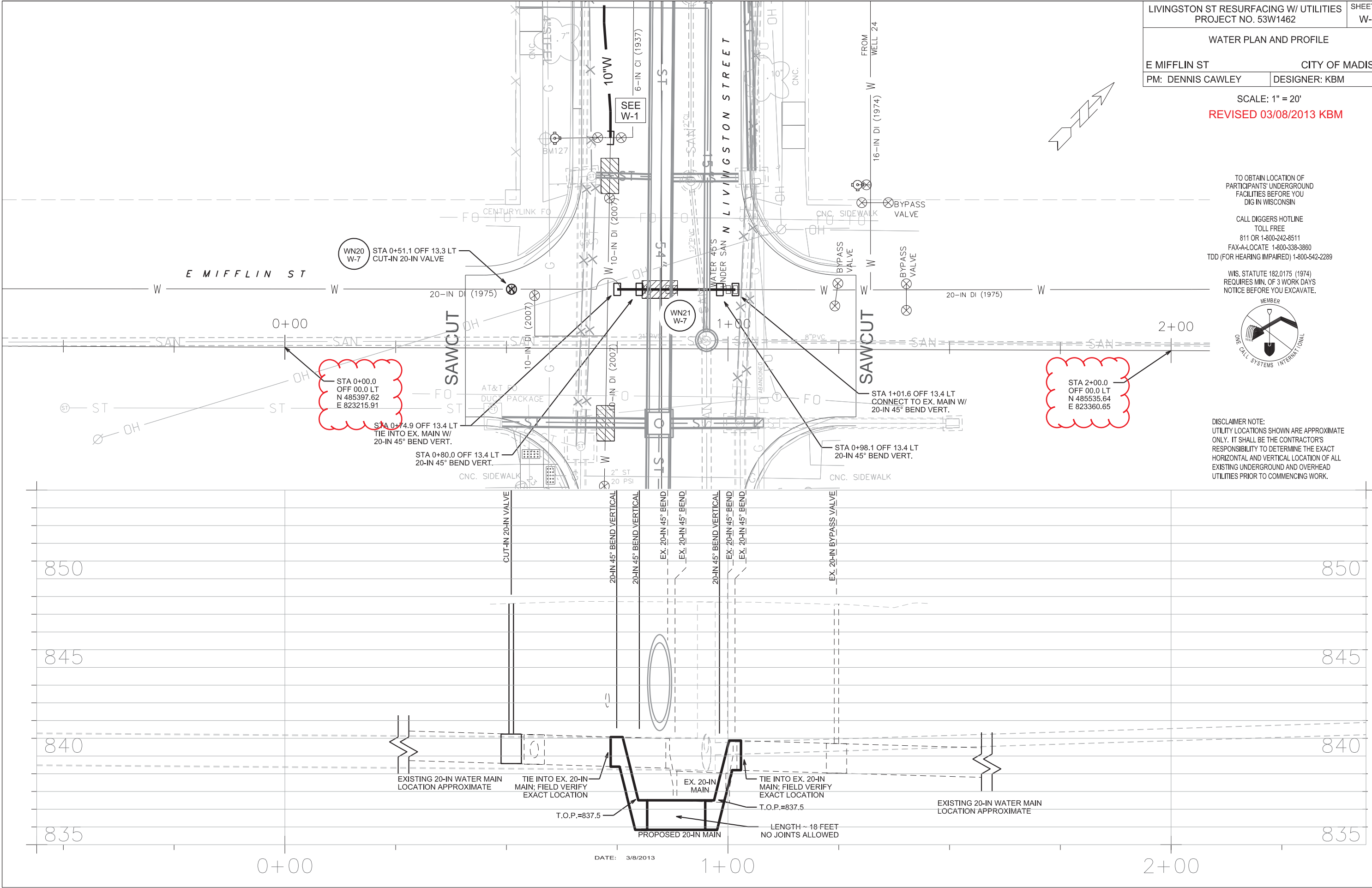
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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.



LIVINGSTON ST RESURFACING W/ UTILITIES
PROJECT NO. 53W1462

SHEET NO.
W-3

WATER PLAN AND PROFILE

E MIFFLIN STCITY OF MADISON

PM: DENNIS CAWLEYDESIGNER: KBM

SCALE: 1" = 20'
REVISED 03/08/2013 KBM

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
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PLOT SCALE: _____

PLOT NAME: _____

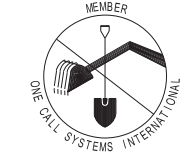
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

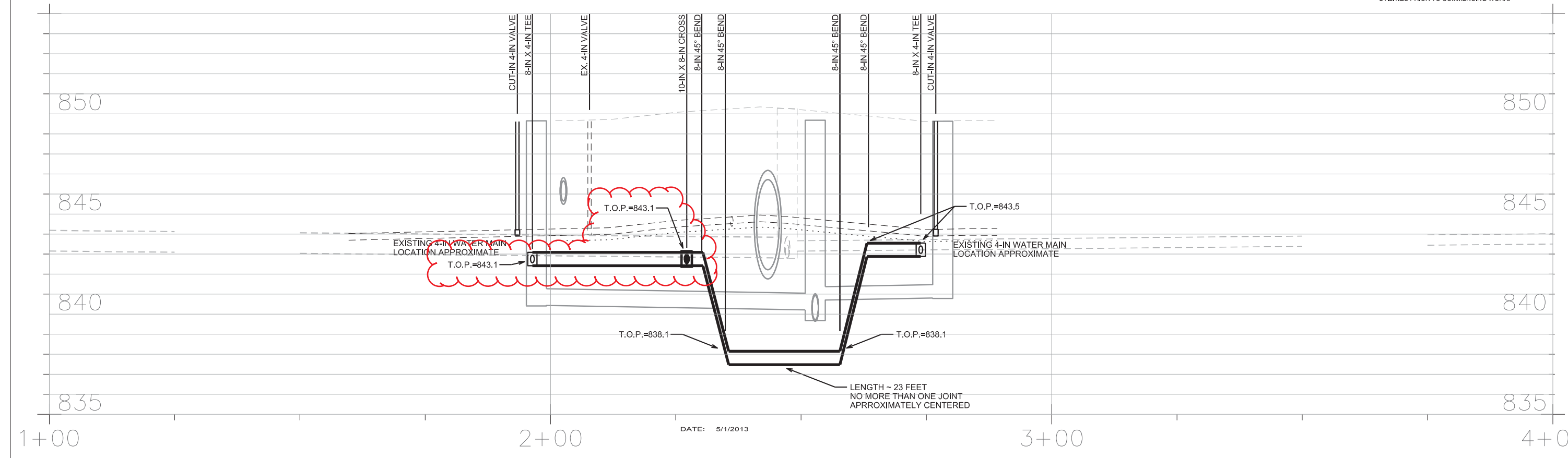
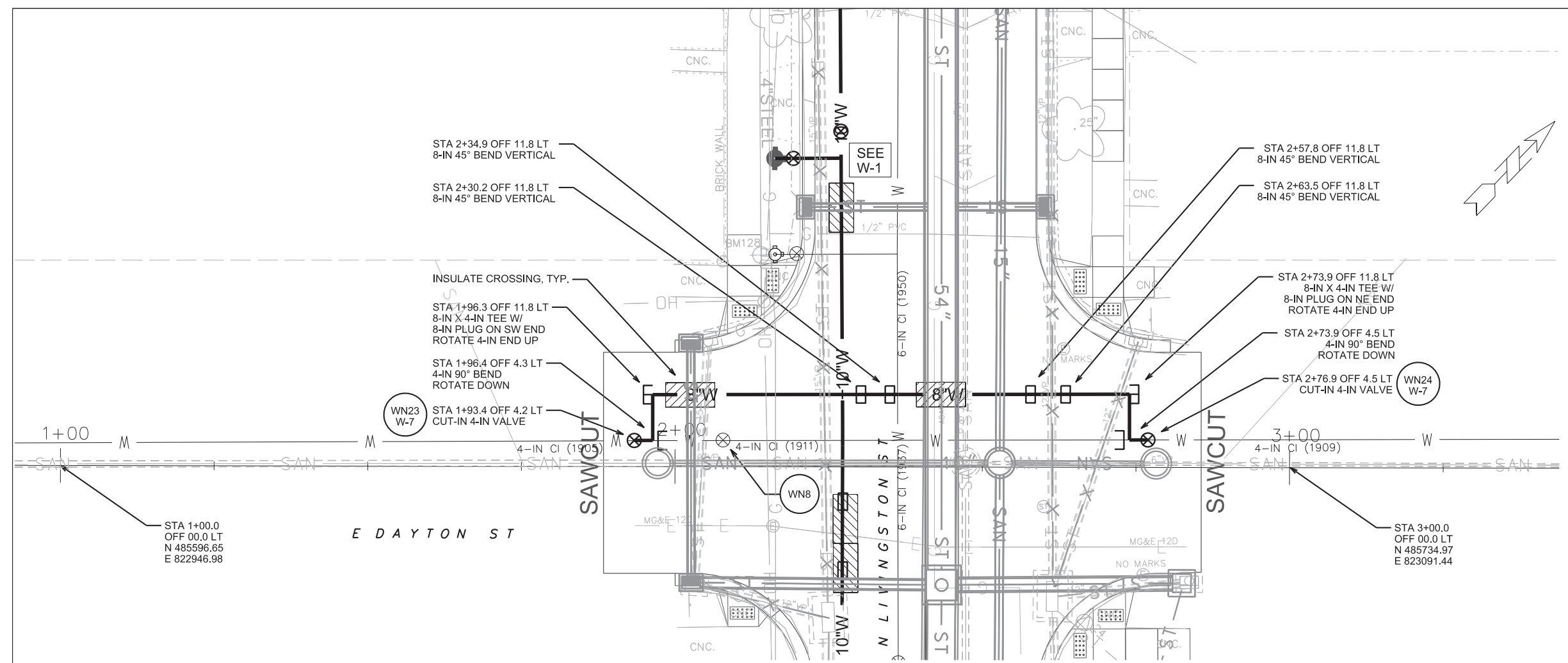
SCALE: 1" = 20'
REVISED 05/01/2013 KBM

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
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811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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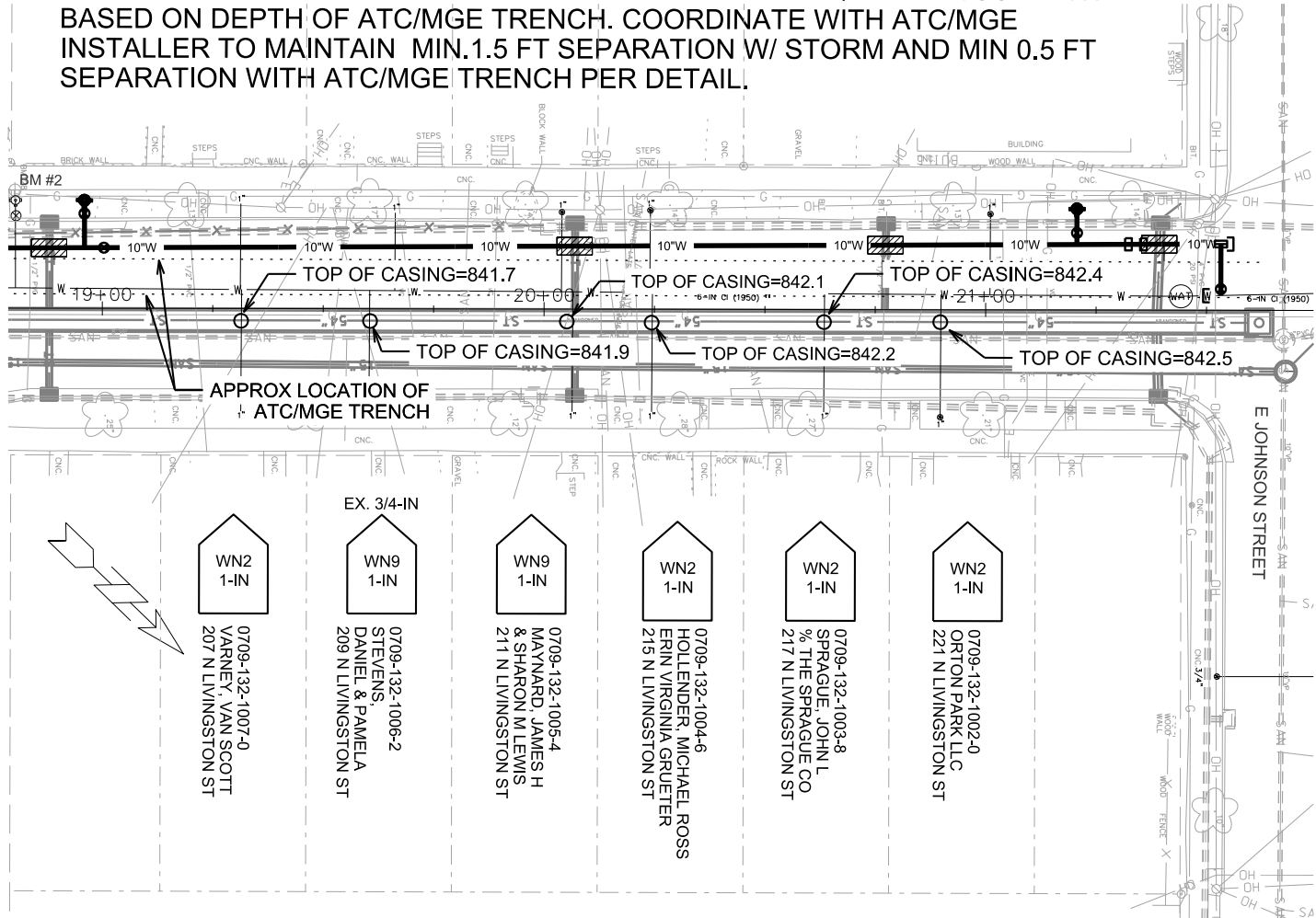
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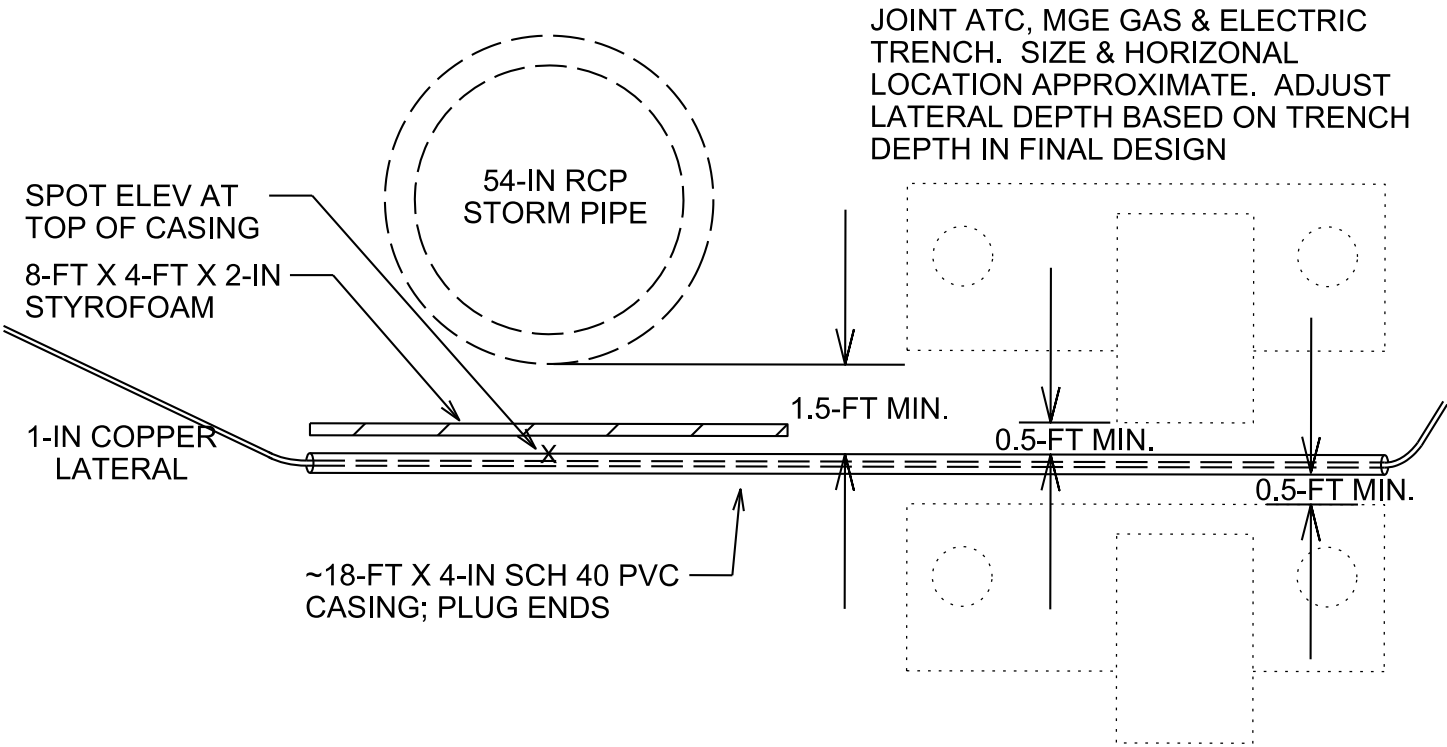
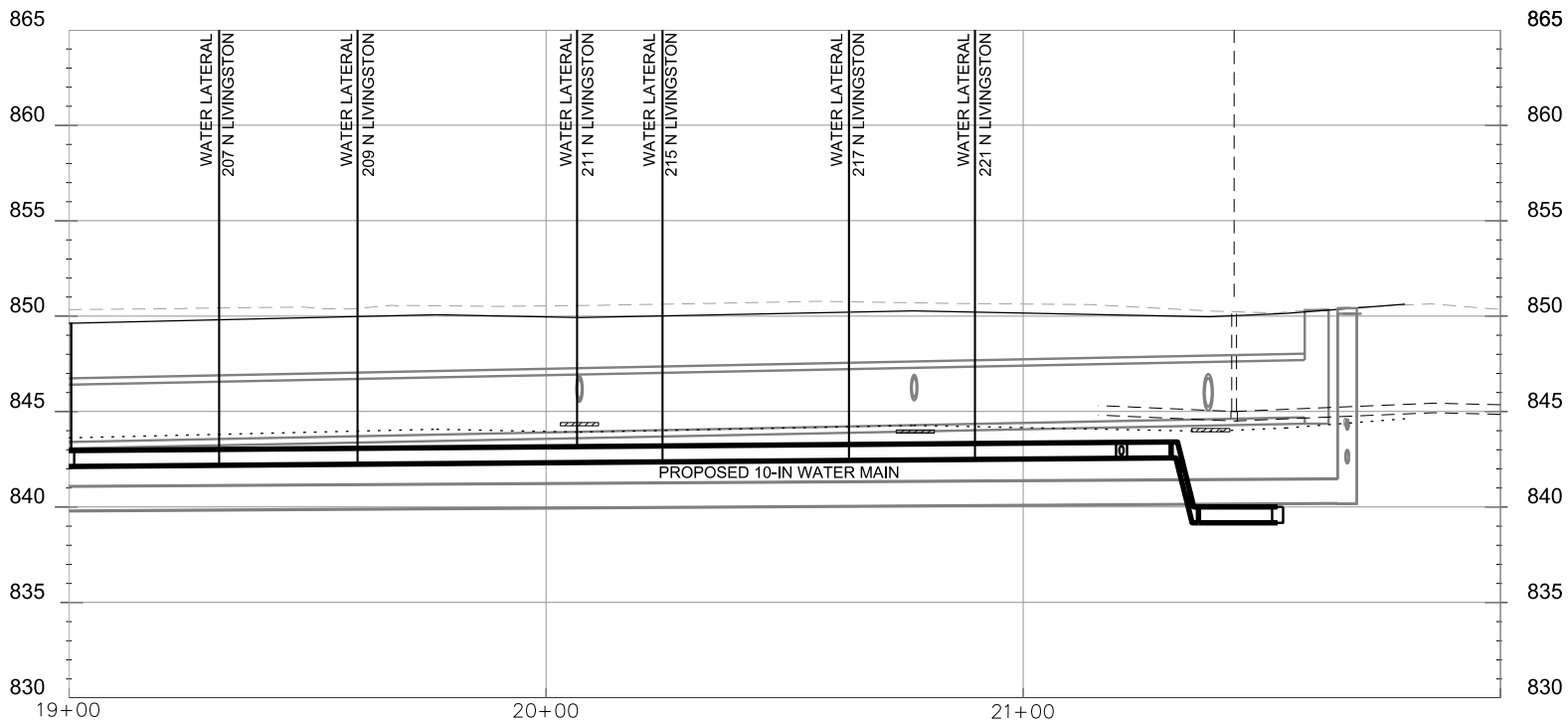
DATE: 5/1/2013

NOTE:
SPOT ELEVATIONS PROVIDED BASED ON 1.5 FT VERTICAL SEPARATION WITH BOTTOM OF STORM PIPE. CASING DEPTH MAY REQUIRE ADJUSTMENT BASED ON DEPTH OF ATC/MGE TRENCH. COORDINATE WITH ATC/MGE INSTALLER TO MAINTAIN MIN.1.5 FT SEPARATION W/ STORM AND MIN 0.5 FT SEPARATION WITH ATC/MGE TRENCH PER DETAIL.

LIVINGSTON ST RESURFACING W/ UTILITIES PROJECT NO. 53W1462		SHEET NO. W-5
WATER SERVICE DETAILS		
N LIVINGSTON ST		CITY OF MADISON
PM: DENNIS CAWLEY	DESIGNER: KBM	



WATER SERVICE LATERALS REQUIRING DETAILED INSTALLATION



INSTALLTION DETAIL FOR IDENTIFIED WATER SERVICE LATERALS

NOTES:

THIS SHEET PROVIDES ADDITIONAL SERVICE INSTALLATION NOTES AND DETAILS FOR THE INSTALLATION OF WATER SERVICE LATERALS THAT WILL EXTEND FROM THE PROPOSED 10-IN WATER MAIN ON LIVINGSTON STREET UNDERNEATH (OR OVER) THE PROPOSED ATC/MGE TRENCH AND UNDER THE 54-IN RCP STORM PIPE TO THE CURB STOP. SERVICE LOCATIONS THAT REQUIRE THIS EXTRA TREATMENT ARE LOCATED ON THE NORTHEAST SIDE OF THE 200 BLOCK OF LIVINGSTON STREET, ODD SIDE ONLY.

- THE INTENT OF THE SPECIAL LATERAL INSTALLATION IS TO TAP THE LATERALS AT NEW MAIN, BEND THE COPPER DOWN UNDER THE (OR OVER) THE PROPOSED ATC/MGE TRENCH AND UNDER THE PROPOSED 54-IN STORM PIPE THROUGH THE PVC CASING AND BEND THE COPPER BACK UP TO THE STANDARD BURY DEPTH TO COUPLE TO THE EXISTING LATERAL.
- ALL IDENTIFIED SERVICES SHALL BE PLACED INSIDE 4-IN PVC CASING WITH THE TOP OF CASING AT LEAST 1.5 FEET BELOW THE BOTTOM OF THE O. D. OF THE 54-IN RCP STORM PIPE AND AT LEAST 0.5 FT ABOVE OR BELOW THE ATC/MGE TRENCH. PLUG BOTH ENDS OF EACH LENGTH OF CASING.
- (1) SHEET OF 8-FT X 4-FT X 2-IN STYROFOAM INSULATION SHALL BE INSTALLED ~6-IN ABOVE THE CASING PARALLEL W/ LATERAL AT THE STORM CROSSING.
- SPOT ELEVATIONS FOR THE TOP OF CASING ARE CALLED OUT FOR EACH LATERAL AT THE STORM CROSSING ON THIS SHEET. THIS ELEVATION IS BASED ON THE KNOWN STORM DEPTH. ADJUST THE CASING DEPTH AS NEEDED TO MAINTAIN VERTICAL SEPARATIONS.

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: _____

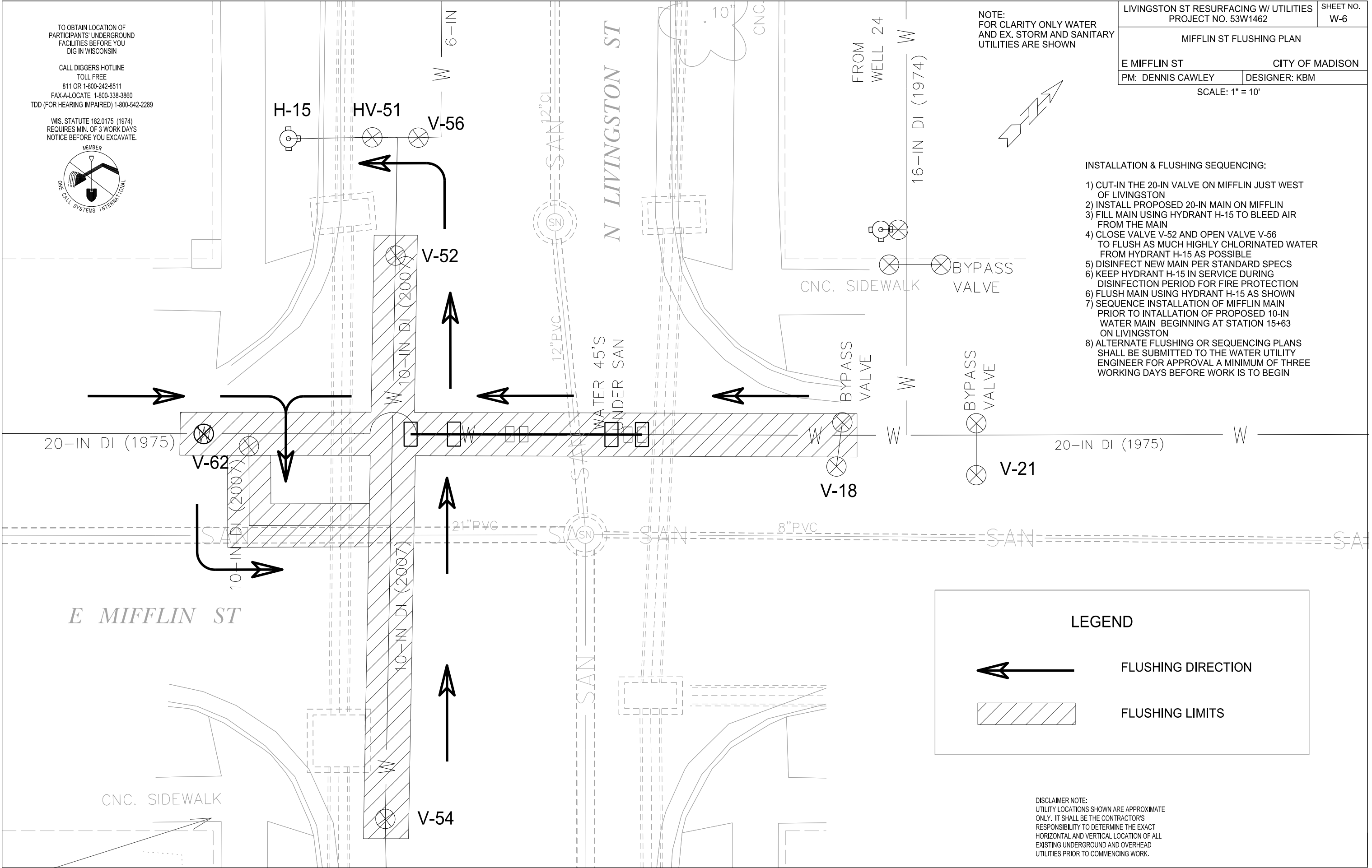
PLOT NAME: _____

PLOT SCALE: _____

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

CALL DIGGERS HOTLINE
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811 OR 1-800-242-8511
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TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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



NOTE:
FOR CLARITY ONLY WATER
AND EX. STORM AND SANITARY
UTILITIES ARE SHOWN

LIVINGSTON ST RESURFACING W/ UTILITIES PROJECT NO. 53W1462		SHEET NO. W-6
MIFFLIN ST FLUSHING PLAN		
E MIFFLIN ST		CITY OF MADISON
PM: DENNIS CAWLEY	DESIGNER: KBM	
SCALE: 1" = 10'		

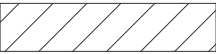
INSTALLATION & FLUSHING SEQUENCING:

- 1) CUT-IN THE 20-IN VALVE ON MIFFLIN JUST WEST OF LIVINGSTON
- 2) INSTALL PROPOSED 20-IN MAIN ON MIFFLIN
- 3) FILL MAIN USING HYDRANT H-15 TO BLEED AIR FROM THE MAIN
- 4) CLOSE VALVE V-52 AND OPEN VALVE V-56 TO FLUSH AS MUCH HIGHLY CHLORINATED WATER FROM HYDRANT H-15 AS POSSIBLE
- 5) DISINFECT NEW MAIN PER STANDARD SPECS
- 6) KEEP HYDRANT H-15 IN SERVICE DURING DISINFECTION PERIOD FOR FIRE PROTECTION
- 6) FLUSH MAIN USING HYDRANT H-15 AS SHOWN
- 7) SEQUENCE INSTALLATION OF MIFFLIN MAIN PRIOR TO INTALLATION OF PROPOSED 10-IN WATER MAIN BEGINNING AT STATION 15+63 ON LIVINGSTON
- 8) ALTERNATE FLUSHING OR SEQUENCING PLANS SHALL BE SUBMITTED TO THE WATER UTILITY ENGINEER FOR APPROVAL A MINIMUM OF THREE WORKING DAYS BEFORE WORK IS TO BEGIN

LEGEND

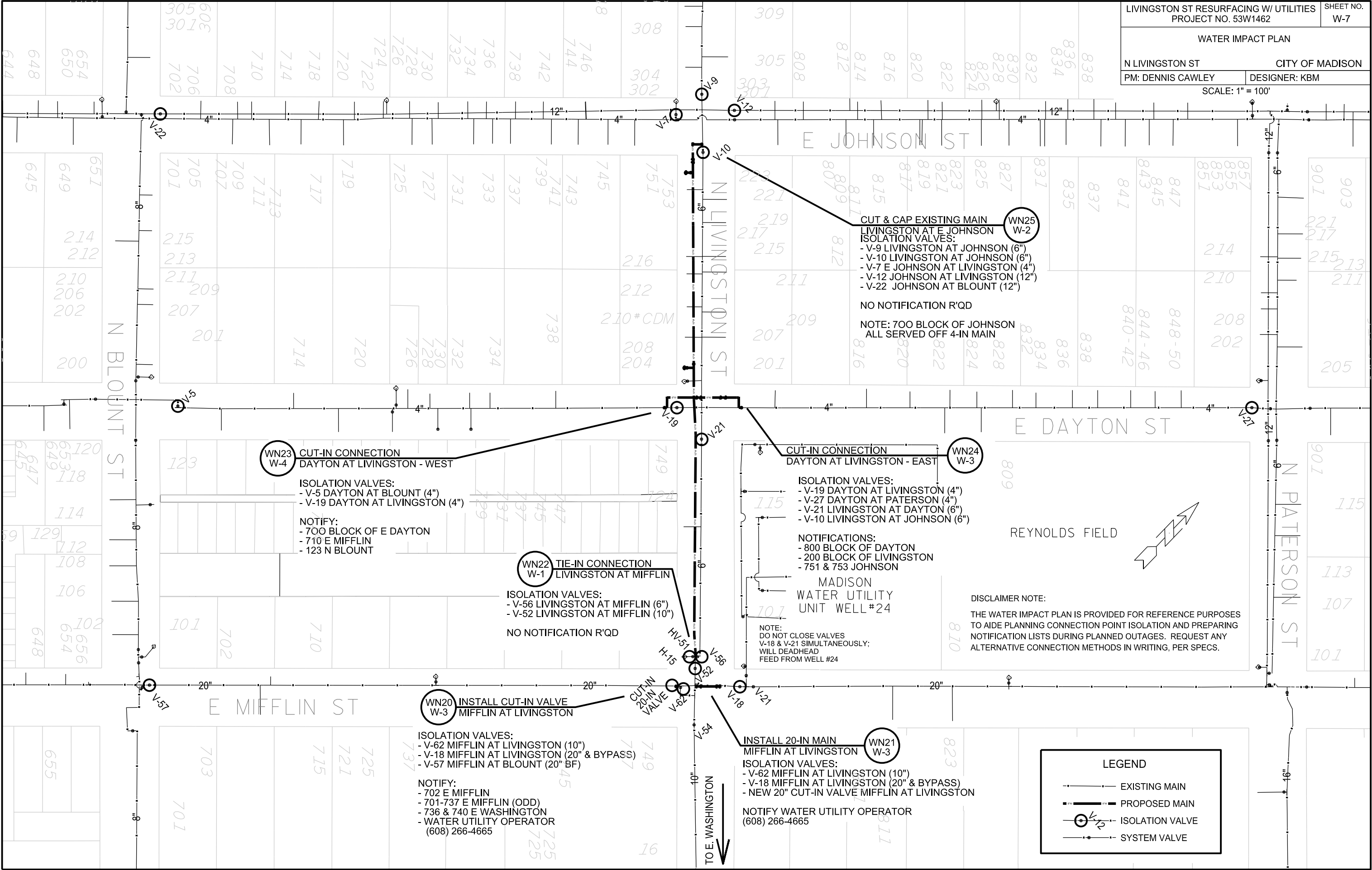


FLUSHING DIRECTION



FLUSHING LIMITS

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

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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 DISTRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. EXISTING WATER MAIN SHALL REMAIN IN SERVICE UNTIL NEW WATER MAIN IS TESTED AND ACCEPTED BY MADISON WATER UTILITY AND ALL SERVICES ARE RECONNECTED.
5. 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.

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

30' - 4" PIPE
40' - 6" PIPE
90' - 8" PIPE
600' - 10" PIPE
40' - 20" PIPE

950' - POLYWRAP

2 - 5" HYDRANT

2 - 4" VALVE & BOX
2 - 6" VALVE & BOX
1 - 10" VALVE & BOX
1 - 20" VALVE & BOX

2 - 8"X4" TEE
3 - 10"X6" TEE

1 - 10"X8" CROSS

2 - 4" 90° BEND
2 - 6" 90° BEND
4 - 8" 45° BEND
2 - 10" 45° BEND
4 - 20" 45° BEND

1 - 20" SLEEVE

2 - 4" MJ CAP
1 - 6" MJ PLUG
2 - 6" MJ CAP
2 - 8" MJ PLUG

152' - 2" STYROFOAM INSULATION

1" COPPER (AS R'QD)

MATERIALS SUPPLIED BY CITY:

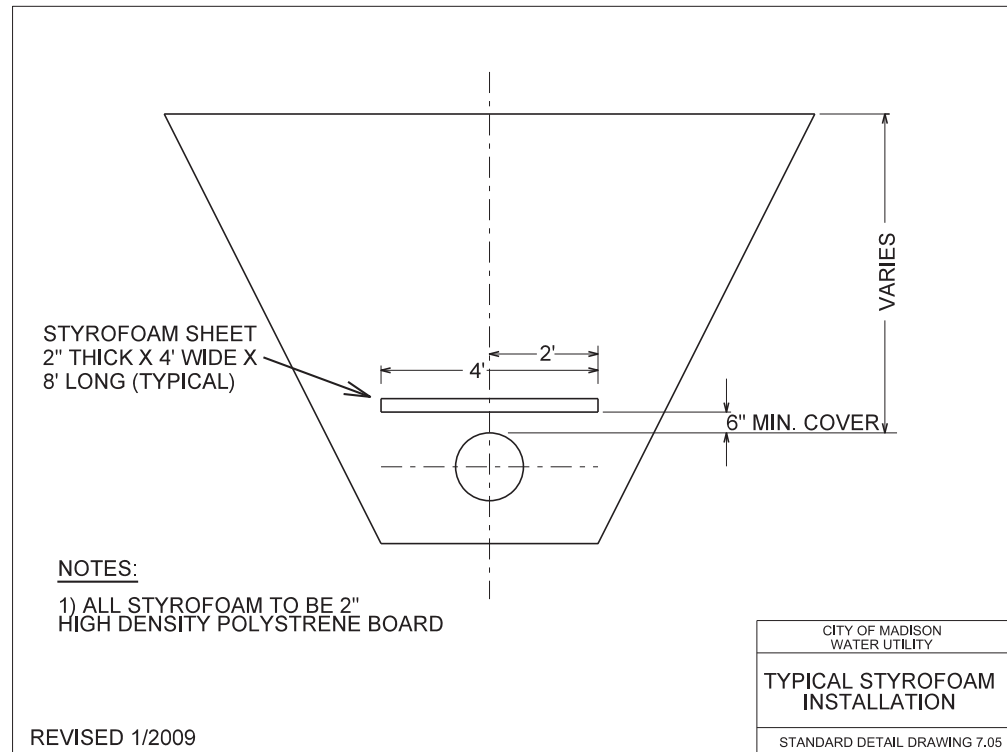
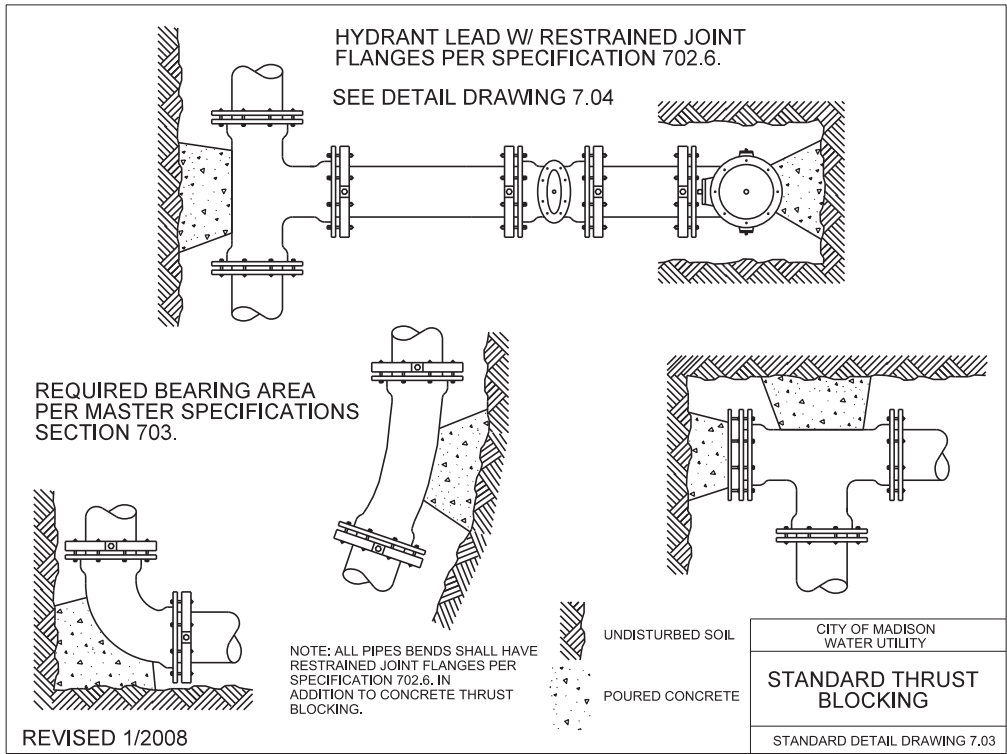
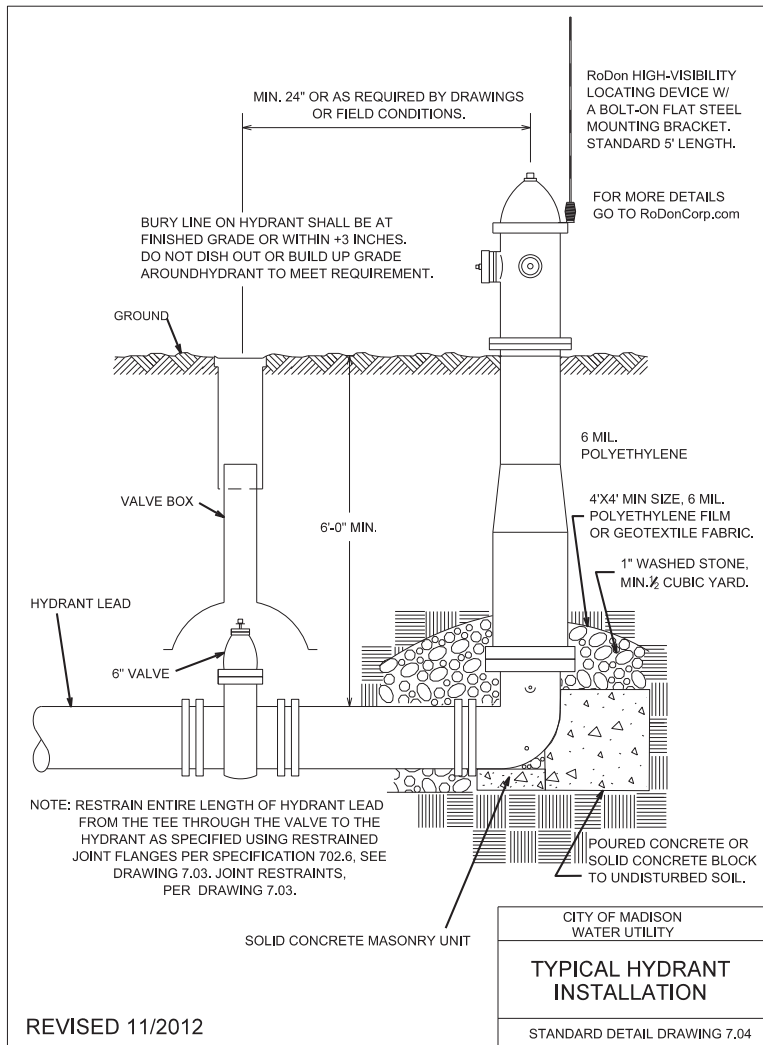
1 - 6-IN X 6-IN TAPPING SLEEVE & VALVE

REMOVED/SALVAGED MATERIALS:

NONE

REUSED MATERIALS:

NONE

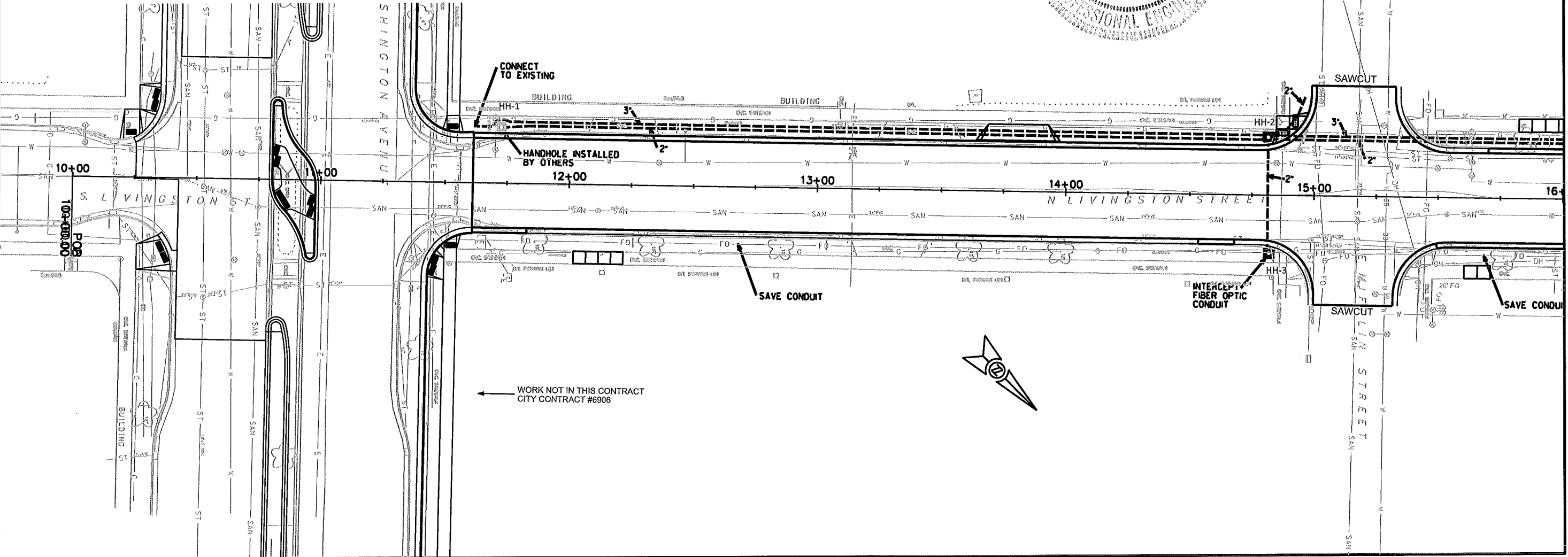
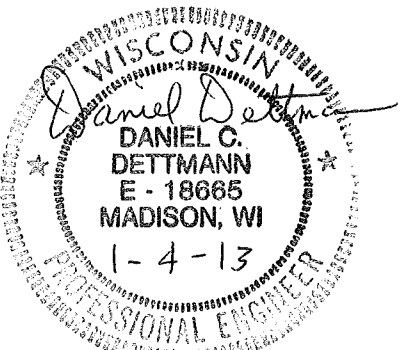


GENERAL ELECTRIC NOTES:

1. ALL LOCATIONS ARE APPROXIMATE. THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK, IN THE FIELD AFTER NEW CURB AND SIDEWALK HAS BEEN LOCATED. THE CONTRACTOR SHALL NOTIFY DAN DETTMANN (266-) CITY TRAFFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING CONDUIT OR HANDHOLE LOCATIONS MARKED.
2. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2013 EDITION" AND ALL ADDENDUMS THERETO. ALL CONDUIT SHALL BE PVC, SCHEDULE 80 UNDER ROADWAY PAVEMENT AND DRIVEWAYS OR SCHEDULE 40 OTHERWISE. PULL WIRE REQUIRED AS PER STANDARD SPECIFICATIONS.
3. THE CONTRACTOR SHALL CALL MIKE CHRISTOPH (266-9031) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF BURYING CONDUIT TO ARRANGE FOR INSPECTION. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
4. CONDUIT IN THE 10 N LIVINGSTON BLOCK MAY NEED TO BE TURNED OUT TOWARD SIDEWALK AT THREE LOCATIONS.
5. CONDUIT LOCATIONS WILL BE DETERMINED BY T.E. ELECTRICAL INSPECTOR FOR ROADWAY SEGMENTS WHERE CURB & GUTTER IS NOT BEING REPLACED.

LEGEND

- INSTALL PVC (SIZE NOTED)
- ELECTRICAL HANDHOLE TYPE I
- E- EXISTING CONDUIT
- FO- EXISTING FIBER OPTIC
- EXISTING HANDHOLE



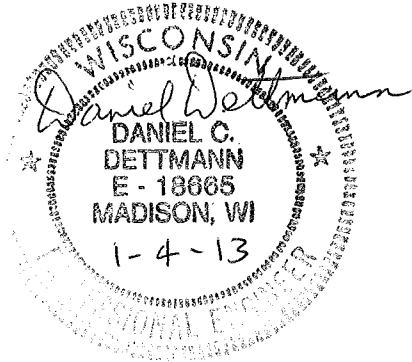
SL1225
12/26/2012 SAL
1/3/2013 KJF

PROJECT NO. 53W1462

SHEET NO.
E-2

Livingston Street Construction
Electrical Plan

CITY OF MADISON

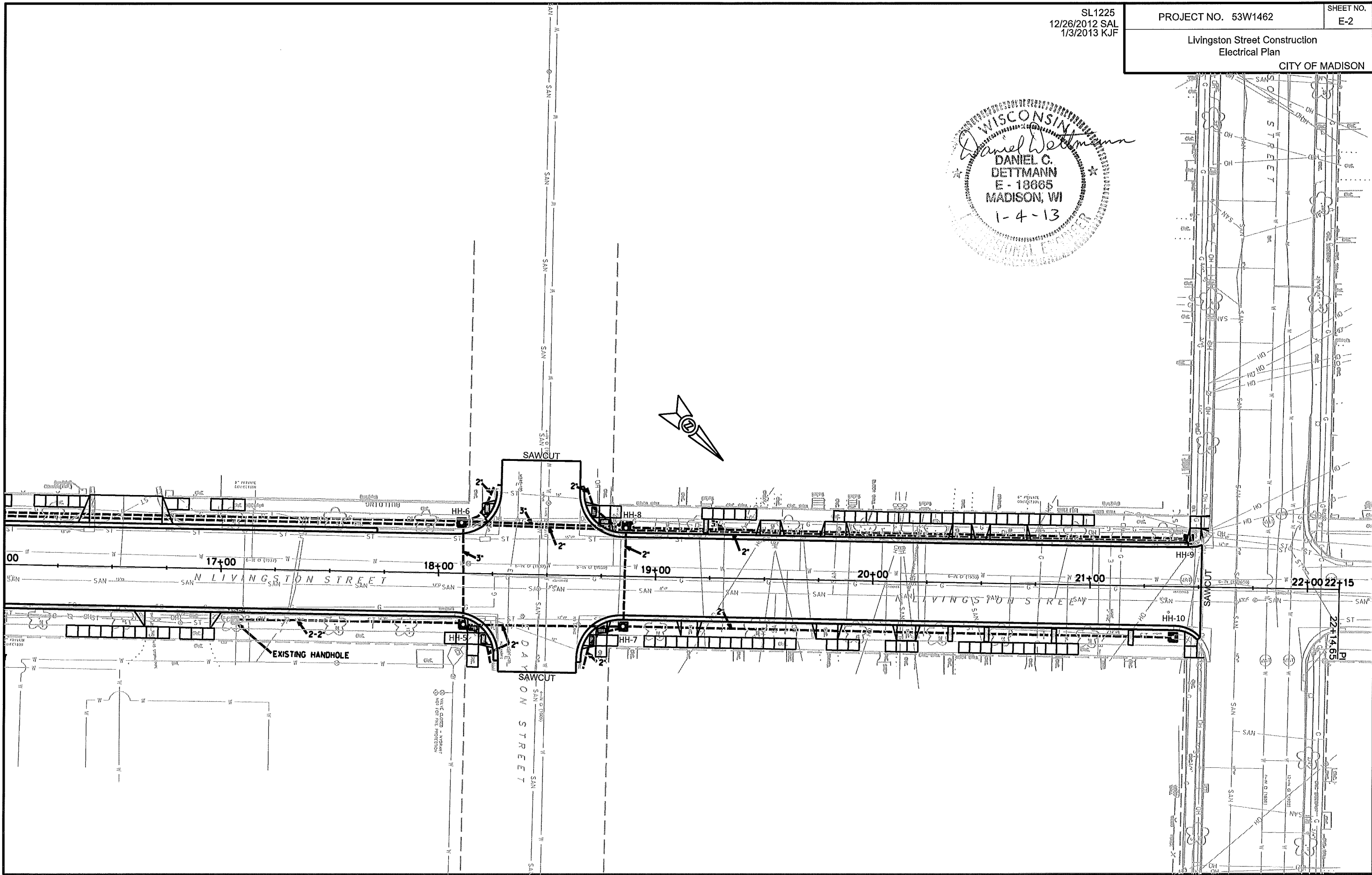


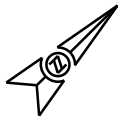
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



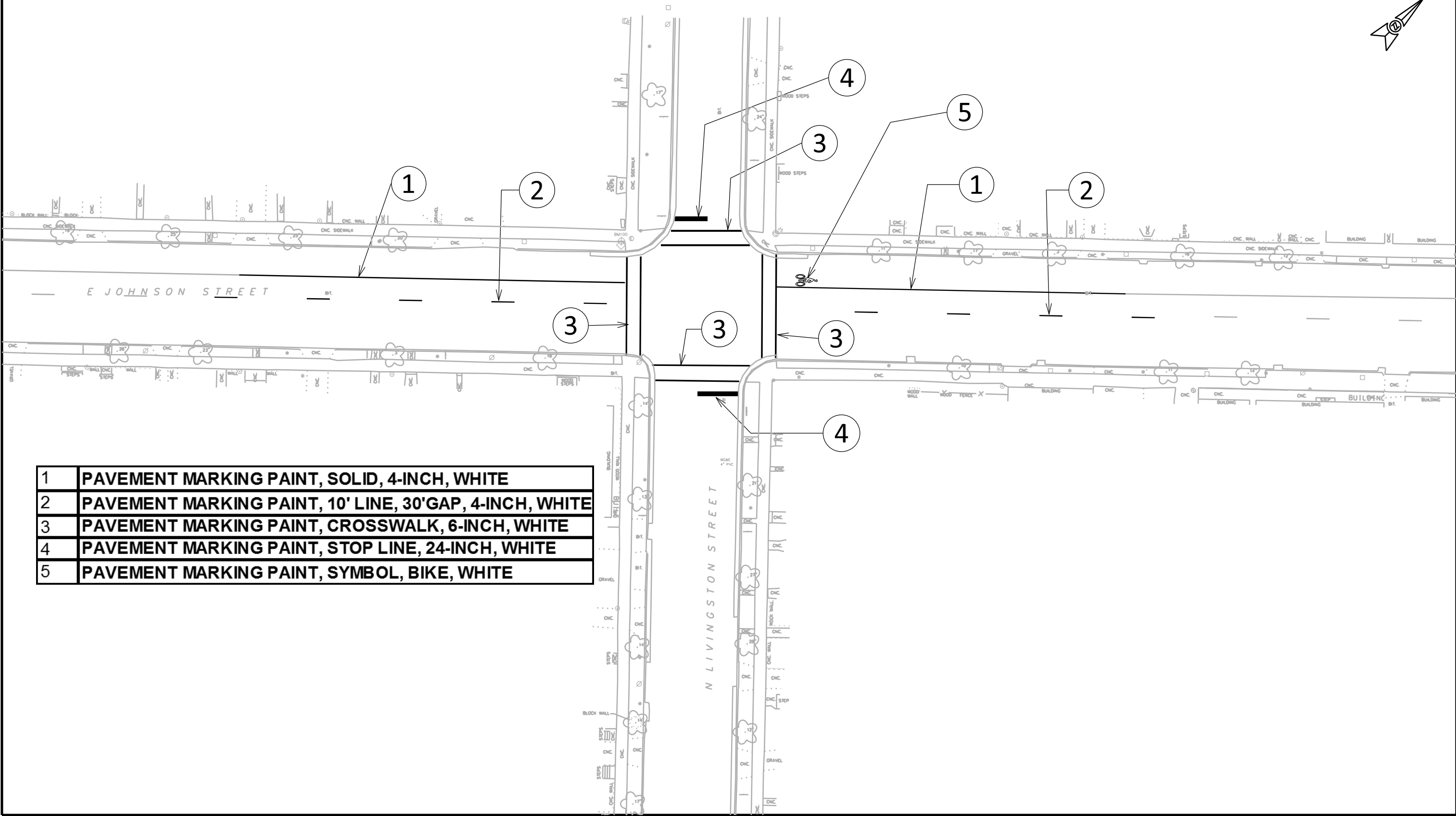


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



1	PAVEMENT MARKING PAINT, SOLID, 4-INCH, WHITE
2	PAVEMENT MARKING PAINT, 10' LINE, 30'GAP, 4-INCH, WHITE
3	PAVEMENT MARKING PAINT, CROSSWALK, 6-INCH, WHITE
4	PAVEMENT MARKING PAINT, STOP LINE, 24-INCH, WHITE
5	PAVEMENT MARKING PAINT, SYMBOL, BIKE, WHITE

PLOT SCALE:

PLOT NAME:

REV. DATE:

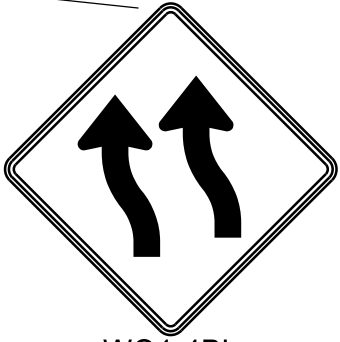
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

R1	PAVEMENT MARKING REMOVAL PAINT, 4-INCH, SOLID
R2	PAVEMENT MARKING REMOVAL PAINT, 4-INCH, 10' LINE, 30' GAP
T1	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, WHITE, SOLID

SHEET NO. TC-1
LIVINGSTON STREET CONSTRUCTION TRAFFIC CONTROL PLAN 53W1462 CITY OF MADISON



LEGEND
DRUM DELINEATOR WITH LIGHTS
TYPE 3 BARRICADE
WORK ZONE
TEMPORARY CONCRETE BARRIER



MAINTAIN BIKE LANE
AT ALL TIMES

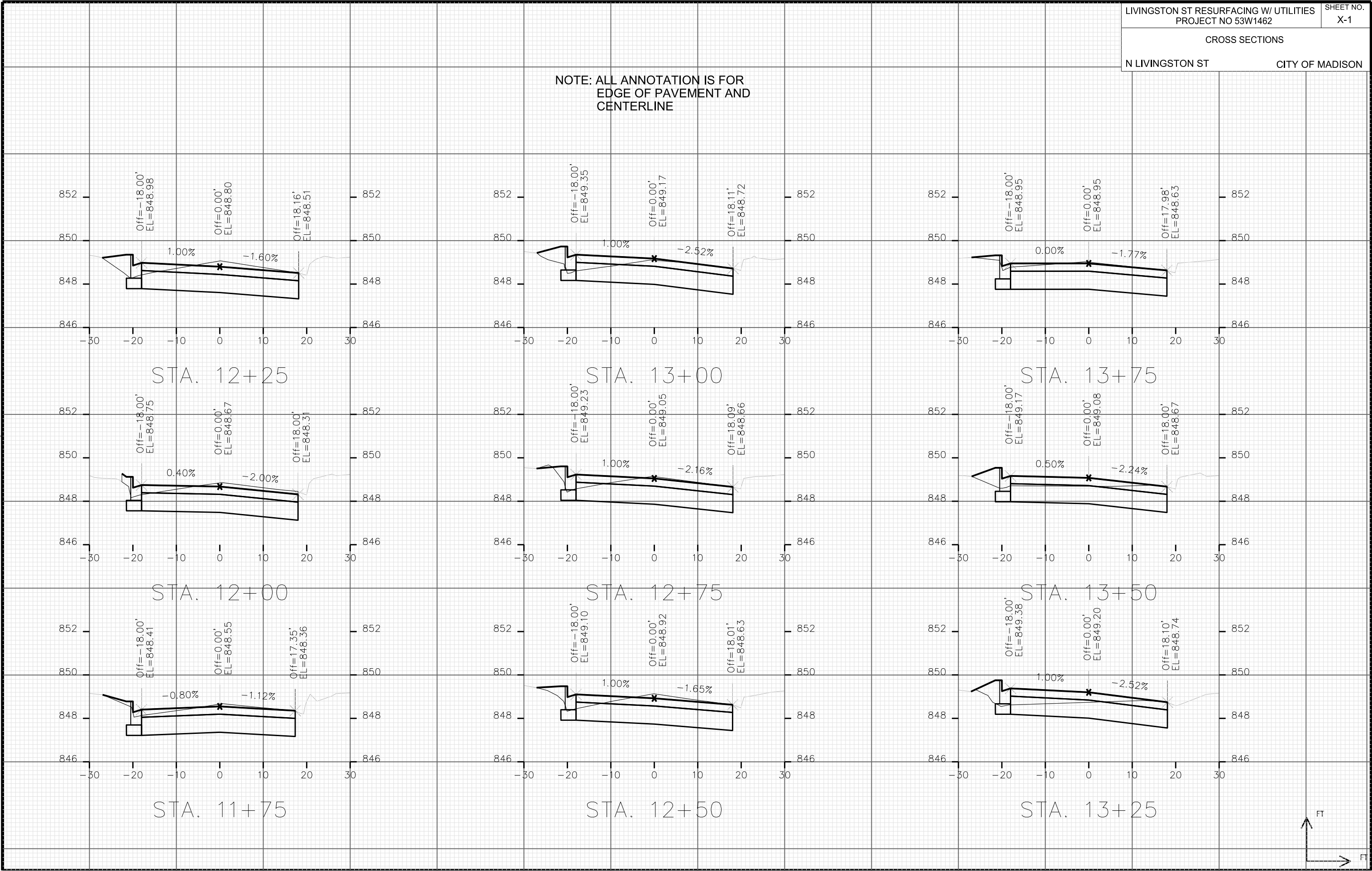
150' TAPER

150' TAPER

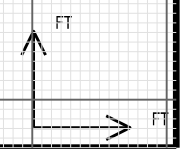
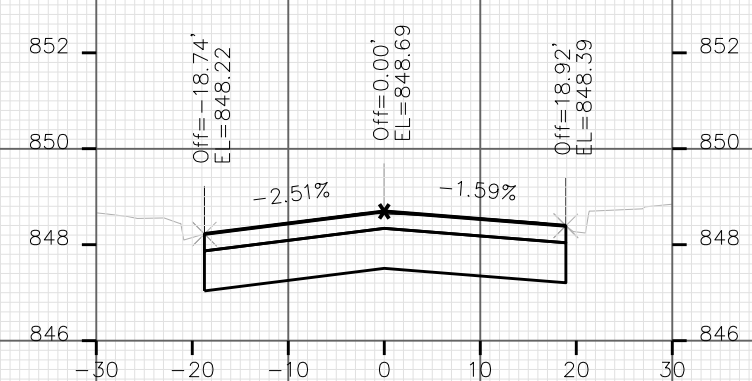
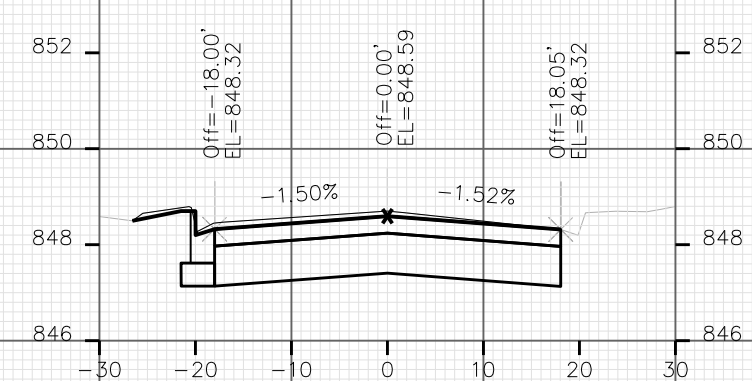
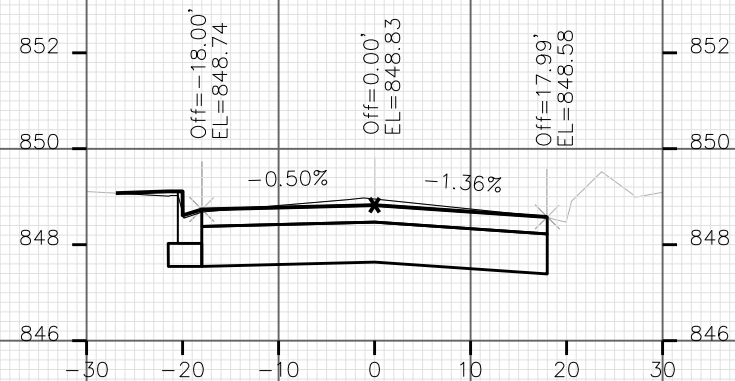
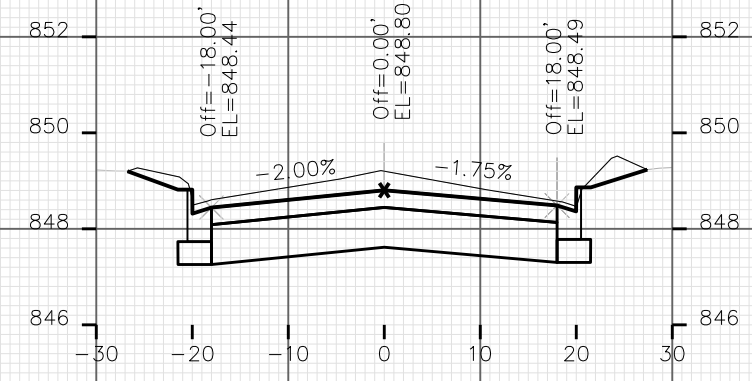
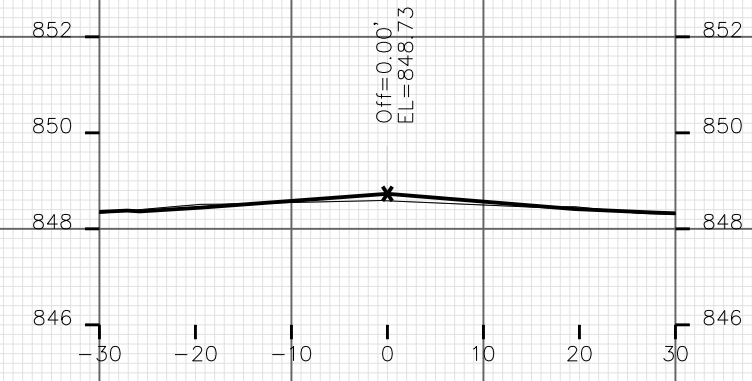
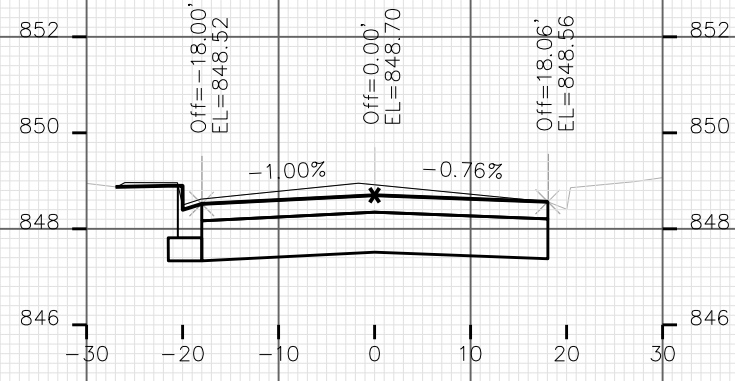
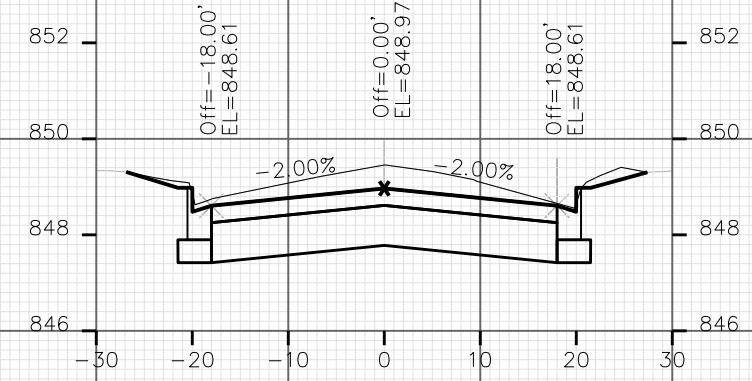
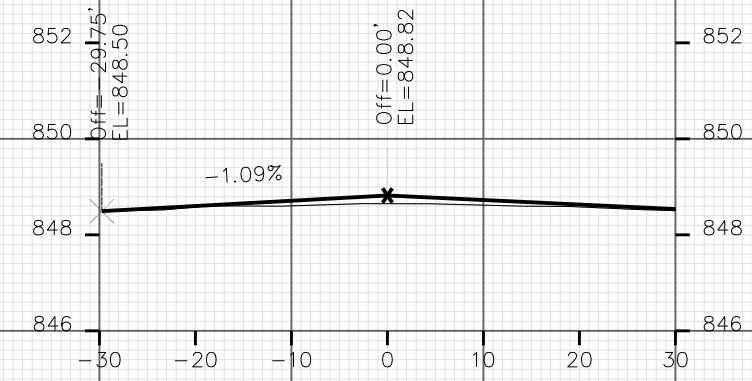
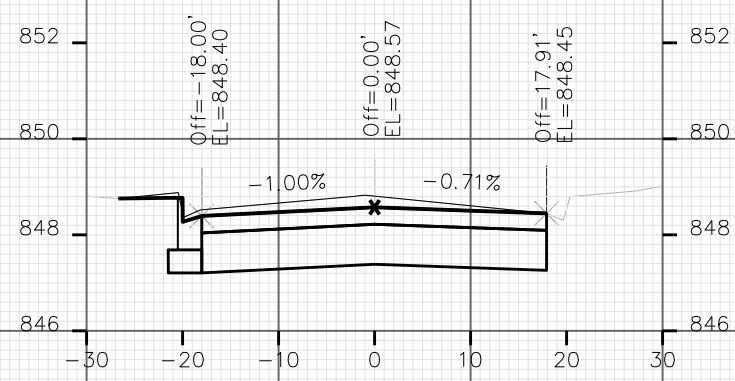
4:1 TAPER MINIMUM TO A
POINT 4' FROM EDGE OF
TRAVEL LANE

MAINTAIN CROSSWALK
WHENEVER POSSIBLE

NOTE: TRAFFIC CONTROL IN
JOHNSON STREET SHALL BE IN
PLACE FOR NO MORE THAN THREE
CONSECUTIVE WEEKS



NOTE: ALL ANNOTATION IS FOR
EDGE OF PAVEMENT AND
CENTERLINE



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

N LIVINGSTON ST _ 854 CITY OF MADISON

Profile view of N Livingston St showing a sag vertical curve. The graph plots elevation (846 to 854) against stationing (-30 to 30). A black line represents the existing ground, and a red line represents the proposed road grade. The curve has a -1.81% approach slope and a 1.97% departure slope. Key points are labeled: Off = -27.17', EL = 849.14 at station -27.17; Off = 0.00', EL = 849.63 at station 0; and Off = 26.98', EL = 849.10 at station 26.98.

The diagram shows a cross-section of a bridge deck on a grid. The vertical axis represents elevation (EL) from 846 to 852. The horizontal axis represents stationing from -30 to 30. Three lines are plotted: the centerline (top), the grade line (middle), and the existing ground line (bottom). The centerline is a straight line with a slope of -2.00% on the left and +2.00% on the right. The grade line is a curve that follows the centerline but has a slight dip in the center. The existing ground line is a straight line that is lower than the grade line. Key points are labeled with their offset (Off) from the centerline and their elevation (EL):

- At station -20: Off = -18.00', EL = 848.73
- At station 0: Off = 0.00', EL = 849.09
- At station 20: Off = 18.00', EL = 848.73

The slopes of the grade line are indicated as -2.00% on the left and +2.00% on the right.

DATE: 12/27/2012

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

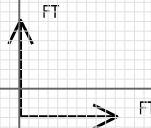
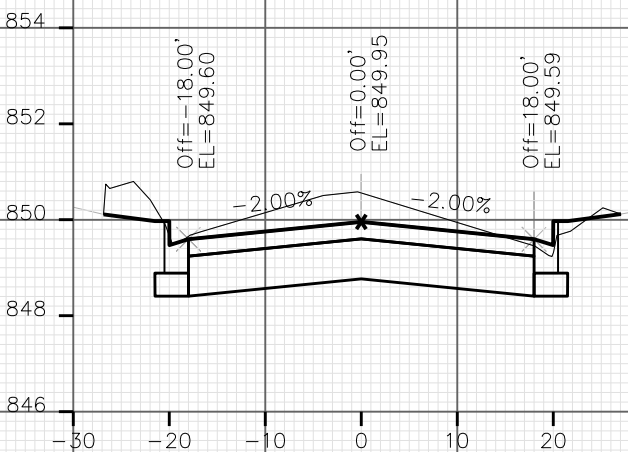
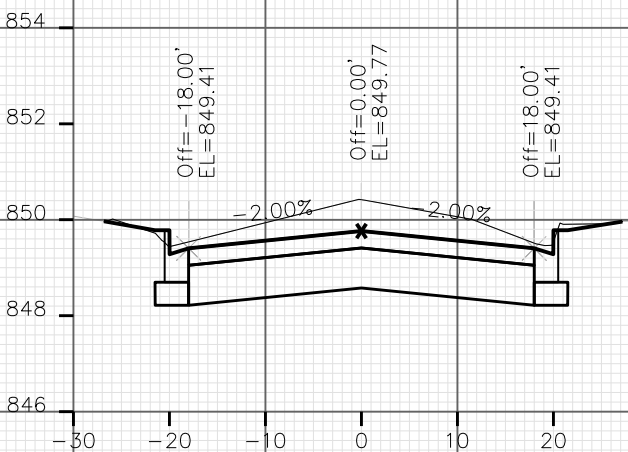
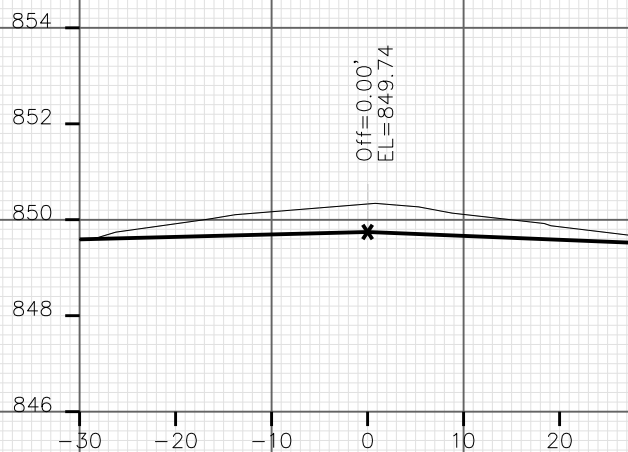
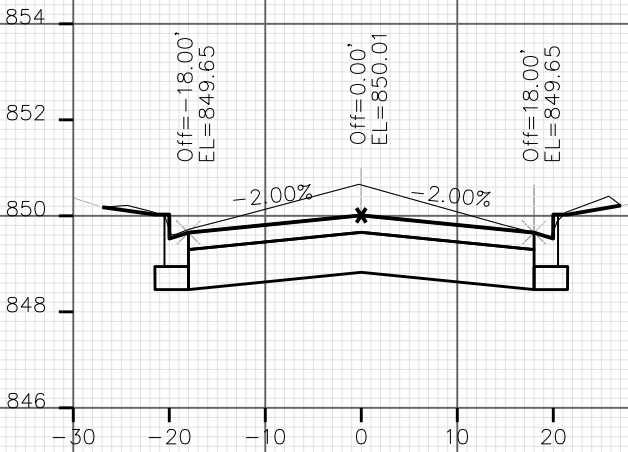
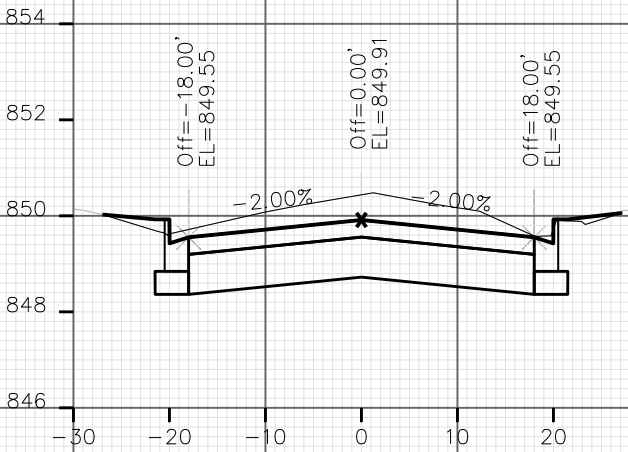
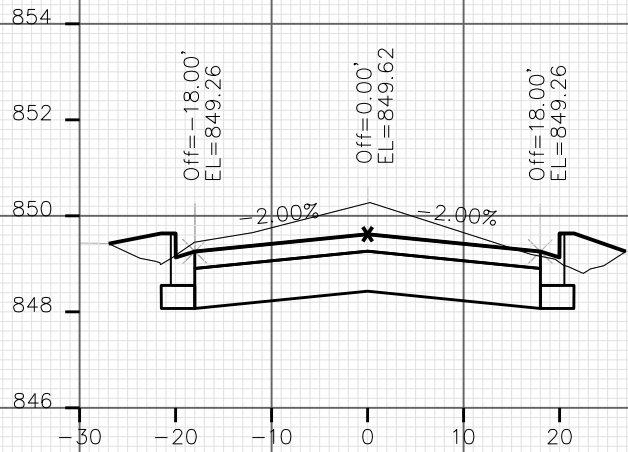
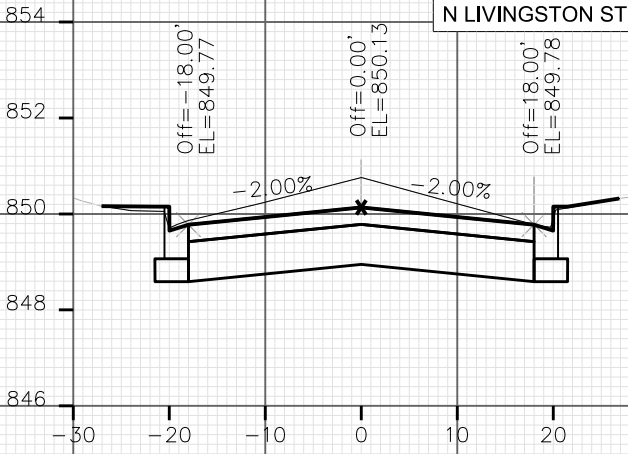
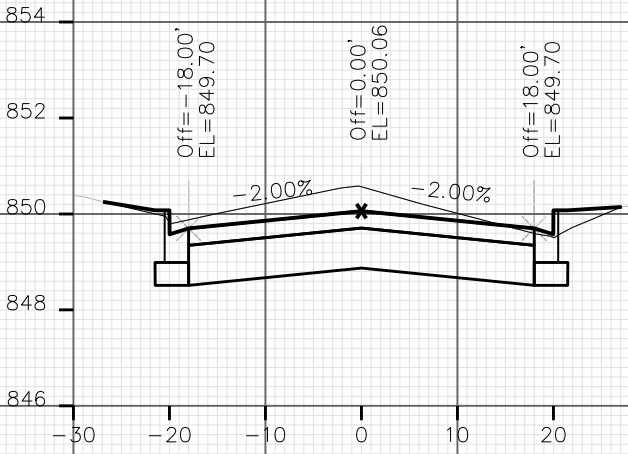
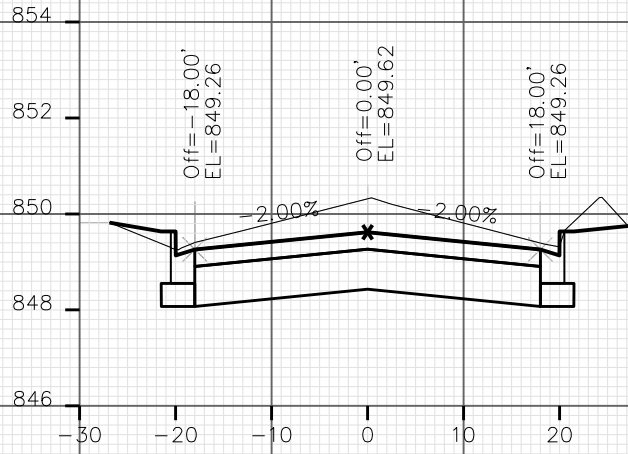
NOTE: ALL ANNOTATION IS FOR
EDGE OF PAVEMENT AND
CENTERLINE

LIVINGSTON ST RESURFACING W/ UTILITIES
PROJECT NO 53W1462

SHEET NO.
X-4

CROSS SECTIONS

N LIVINGSTON ST — 854 CITY OF MADISON



CROSS SECTIONS

N LIVINGSTON ST

CITY OF MADISON

NOTE: ALL ANNOTATION IS FOR
EDGE OF PAVEMENT AND
CENTERLINE

PLOT SCALE:

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REV. DATE:

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