

Madison, Wisconsin

CITY OF MADISON

MADISON WATER UTILITY

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT
APPROVED
JANUARY 21, 2014
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

WATER SYSTEM IMPROVEMENTS
APPROVED BY:

Principal Engineer Date 1-21-14

WATER
DESIGNED BY:

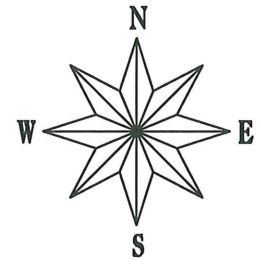
1-21-2014

INDEX OF SHEETS

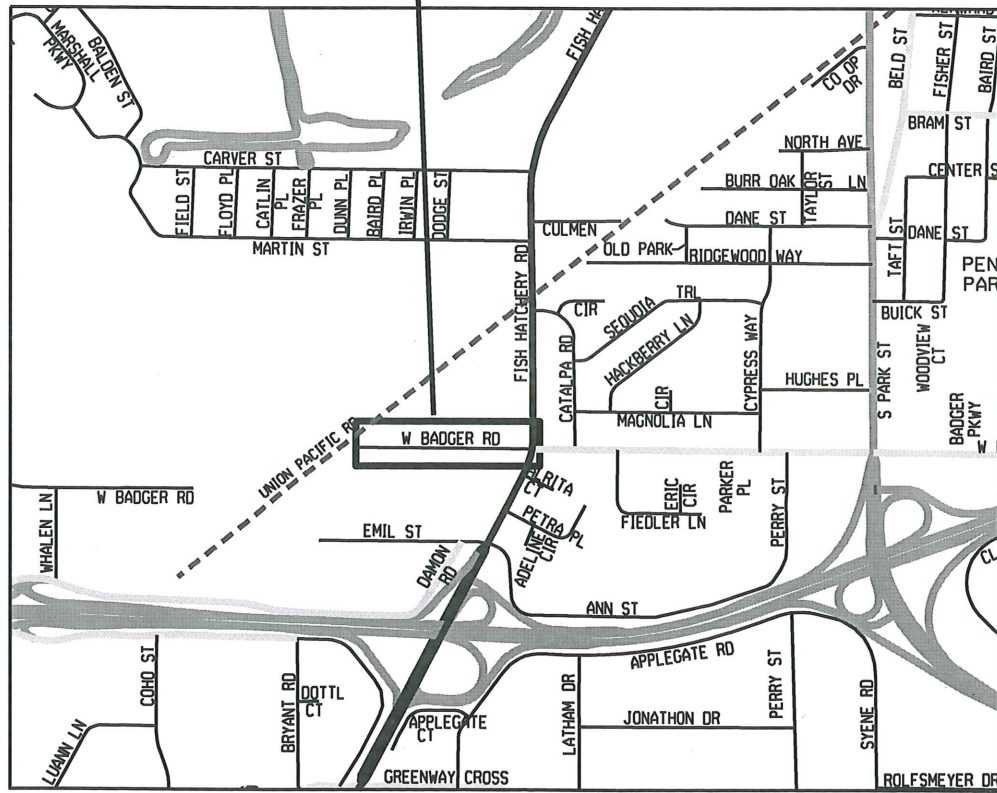
SHEET NO.	1	TITLE
SHEET NO.	A1-A2	ALIGNMENT & CONTROL
SHEET NO.	EC1-EC5	EROSION CONTROL PLAN
SHEET NO.	W1-W5	WATER PLAN & PROFILE
SHEET NO.	W6-W7	WATER IMPACT PLAN
SHEET NO.	W8	WATER ESTIMATE OF MATERIALS
SHEET NO.	R1-R5	RESTORATION PLAN

WEST BADGER ROAD & LANCASTER DRIVE WATER MAIN REPLACEMENT

CITY PROJECT NO. 53W1709
CITY CONTRACT NO. 7211

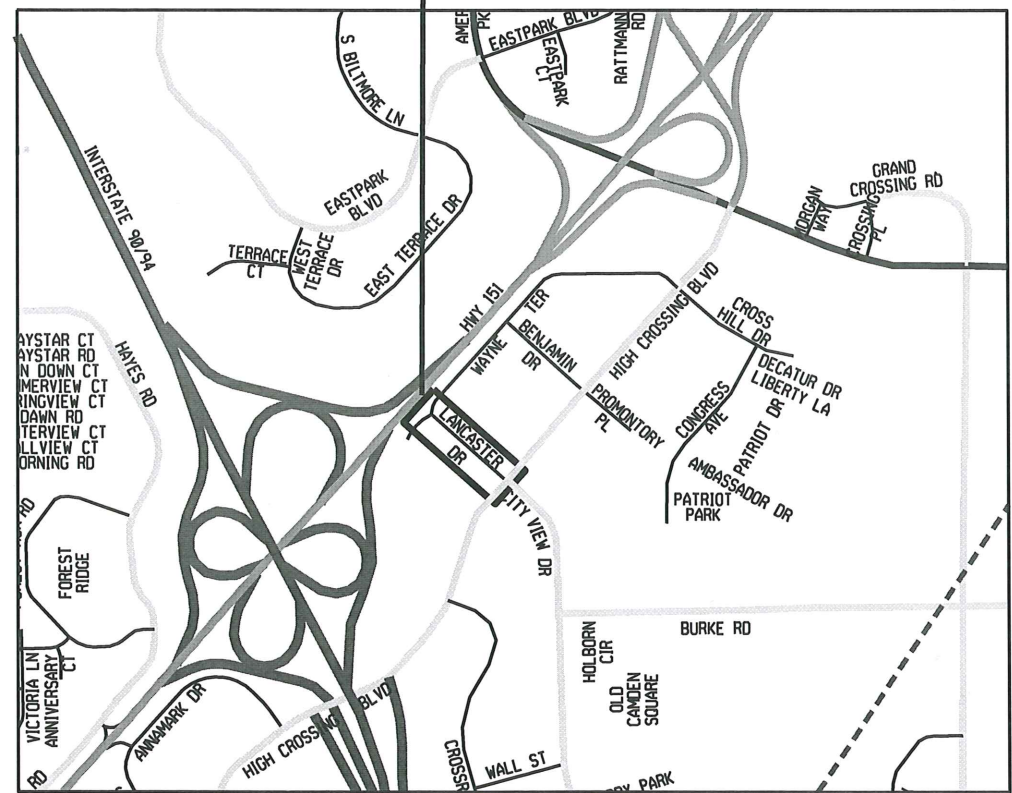


PROJECT
LOCATION



W BADGER ROAD

PROJECT
LOCATION



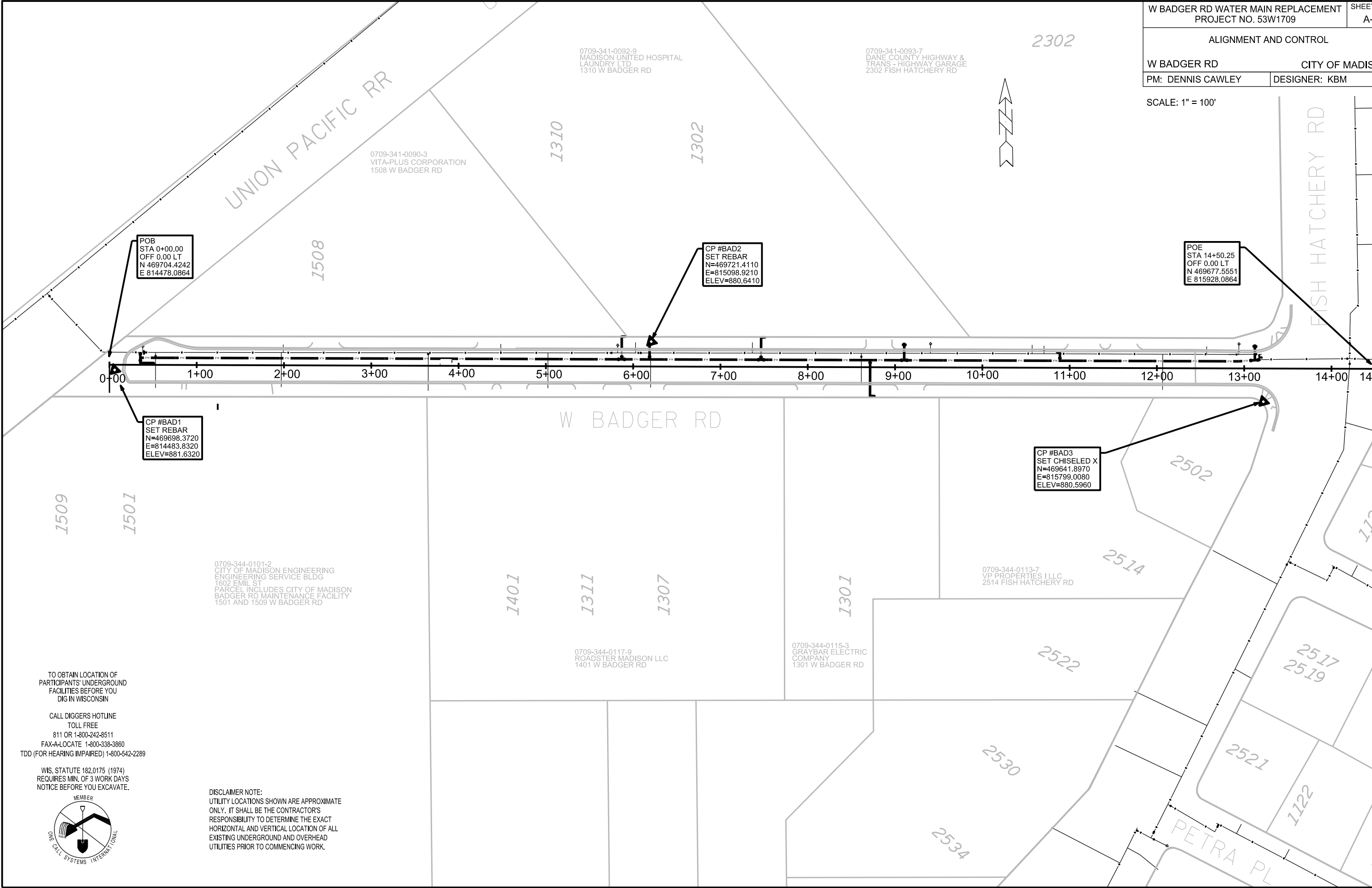
LANCASTER DRIVE

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	

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



W BADGER RD WATER MAIN REPLACEMENT PROJECT NO. 53W1709		SHEET NO. A-1	
ALIGNMENT AND CONTROL			
W BADGER RD		CITY OF MADISON	
PM: DENNIS CAWLEY		DESIGNER: KBM	
SCALE: 1" = 100'			

PLOT SCALE: _____

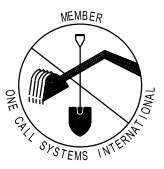
PLOT NAME: _____

REV. DATE: _____

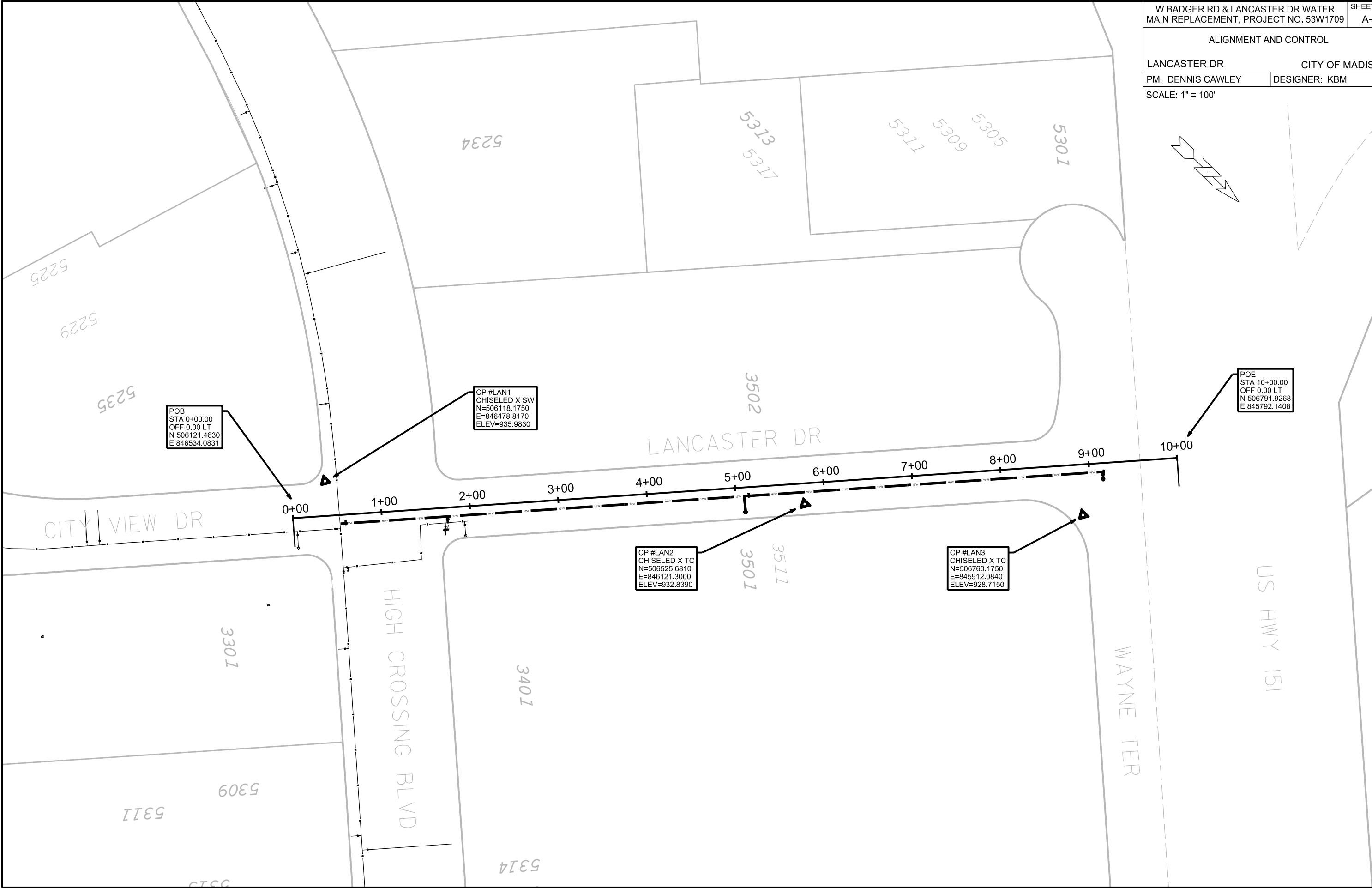
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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



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.



W BADGER RD & LANCASTER DR WATER MAIN REPLACEMENT; PROJECT NO. 53W1709		SHEET NO. A-2
ALIGNMENT AND CONTROL		
LANCASTER DR		CITY OF MADISON
PM: DENNIS CAWLEY	DESIGNER: KBM	
SCALE: 1" = 100'		

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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



0709-341-0090-3
VITA-PLUS CORPORATION
1508 W BADGER RD

NO EROSION CONTROL
R'QD ON THIS PAGE

0709-341-0092-9
MADISON UNITED HOSPITAL
LAUNDRY LTD
1310 W BADGER RD

W BADGER RD & LANCASTER DR WATER MAIN REPLACEMENT; PROJECT NO. 53W1709	SH E
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SHEET NO.
EC-2

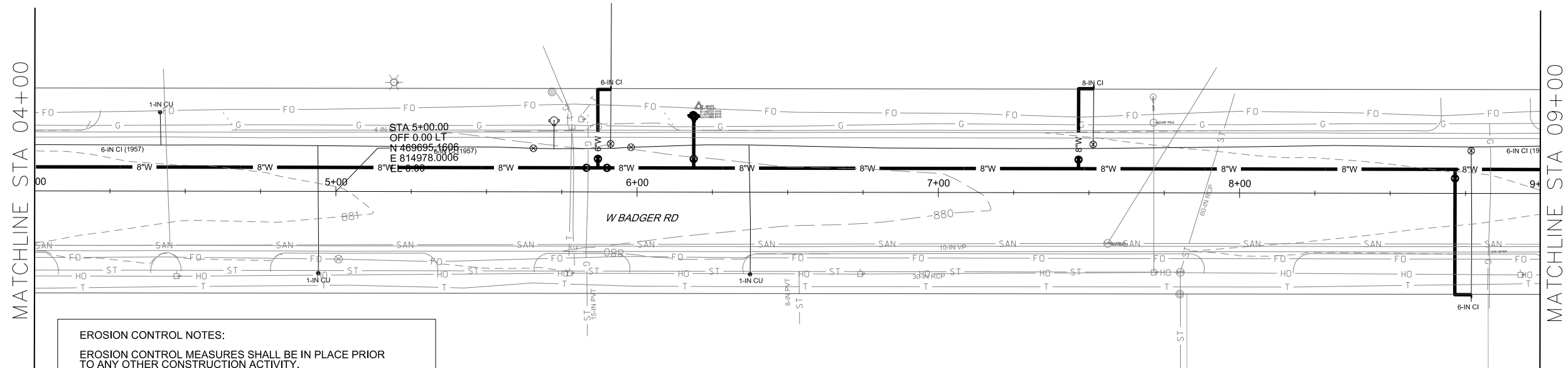
EROSION CONTROL PLAN

W BADGER RD

CITY OF MADISON

PM: DENNIS CAWLEY

DESIGNER: KBM



EROSION CONTROL NOTES:

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

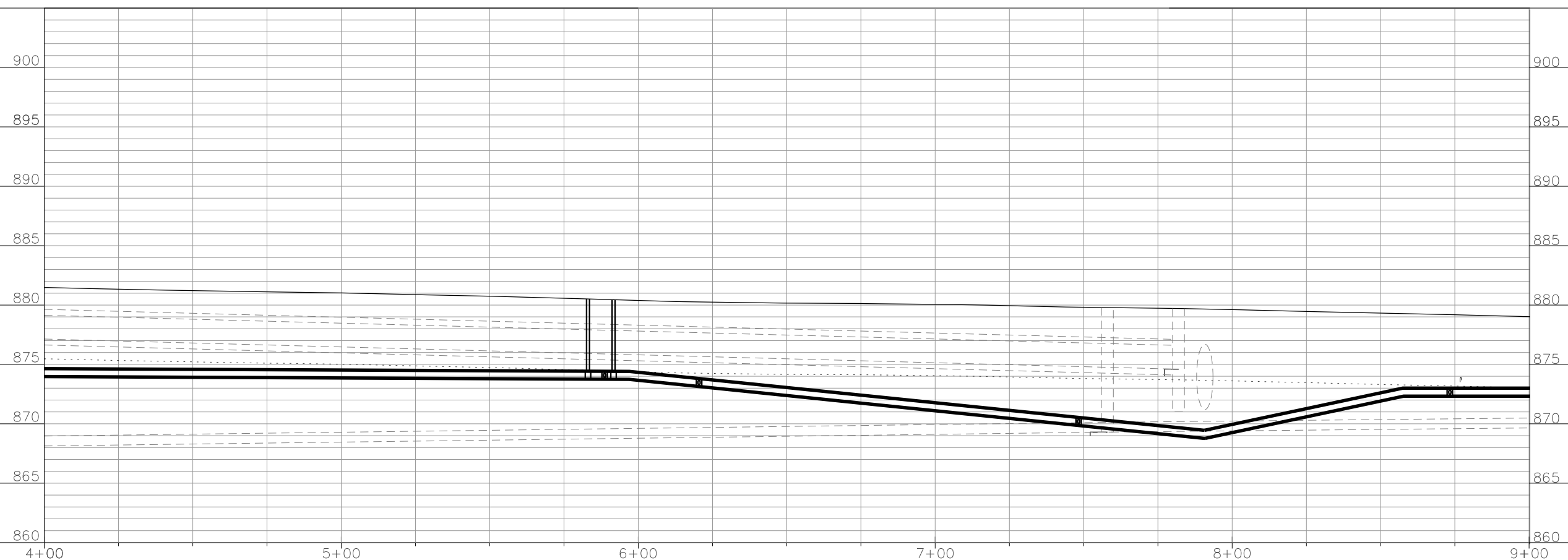
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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

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

0709-344-0117-9
ROADSTER MADISON LLC
1401 W BADGER RD

0709-344-0115-3
GRAYBAR ELECTRIC COMPANY
1301 W BADGER RD



FILE NAME: M:\DESIGN\Projects\53W1709\Badger Rd\Water\Design\53W1709WU-EC2.dgn

DATE: 1/14/2014

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



0709-341-0093-7
DANE COUNTY HIGHWAY &
TRANS - HIGHWAY GARAGE
2302 FISH HATCHERY RD

MATCHLINE STA 09+00

TYPE D HYBRID
INLET PROTECTION

TYPE D HYBRID
INLET PROTECTION

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TYPE D HYBRID
INLET PROTECTION

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INLET PROTECTION

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INLET PROTECTION

W BADGER RD & LANCASTER DR WATER MAIN REPLACEMENT; PROJECT NO. 53W1709	SH E
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SHEET NO.
EC-3

EROSION CONTROL PLAN

W BADGER RD

CITY OF MADISON

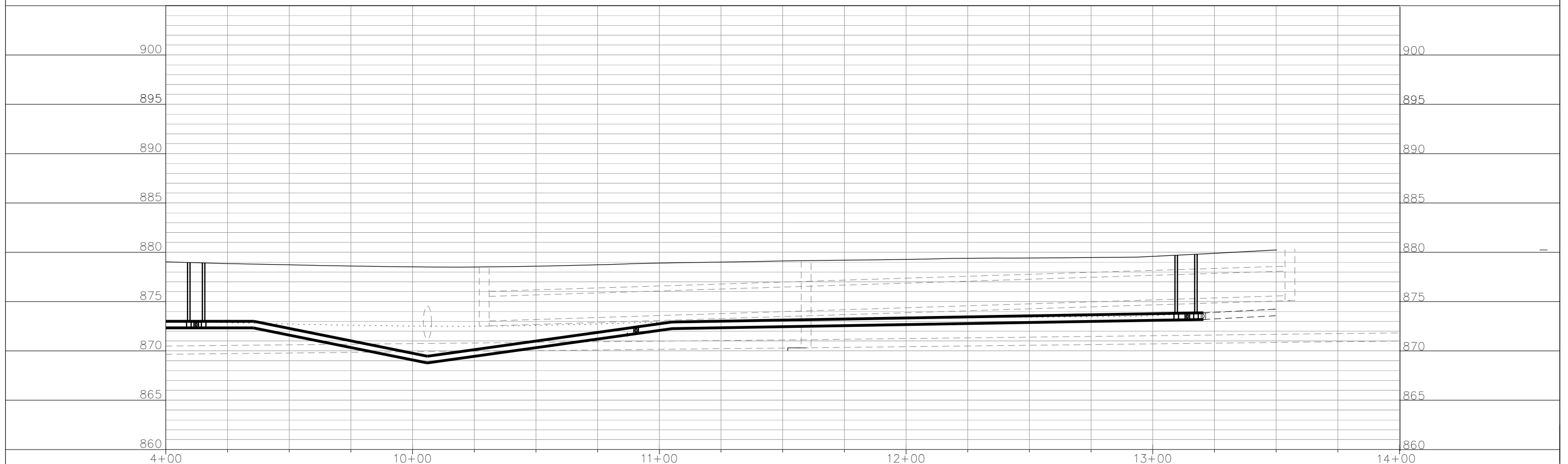
PM: DENNIS CAWLEY

DESIGNER: KBM

0709-344-0115-3
GRAYBAR ELECTRIC CO
1301 W BADGER RD

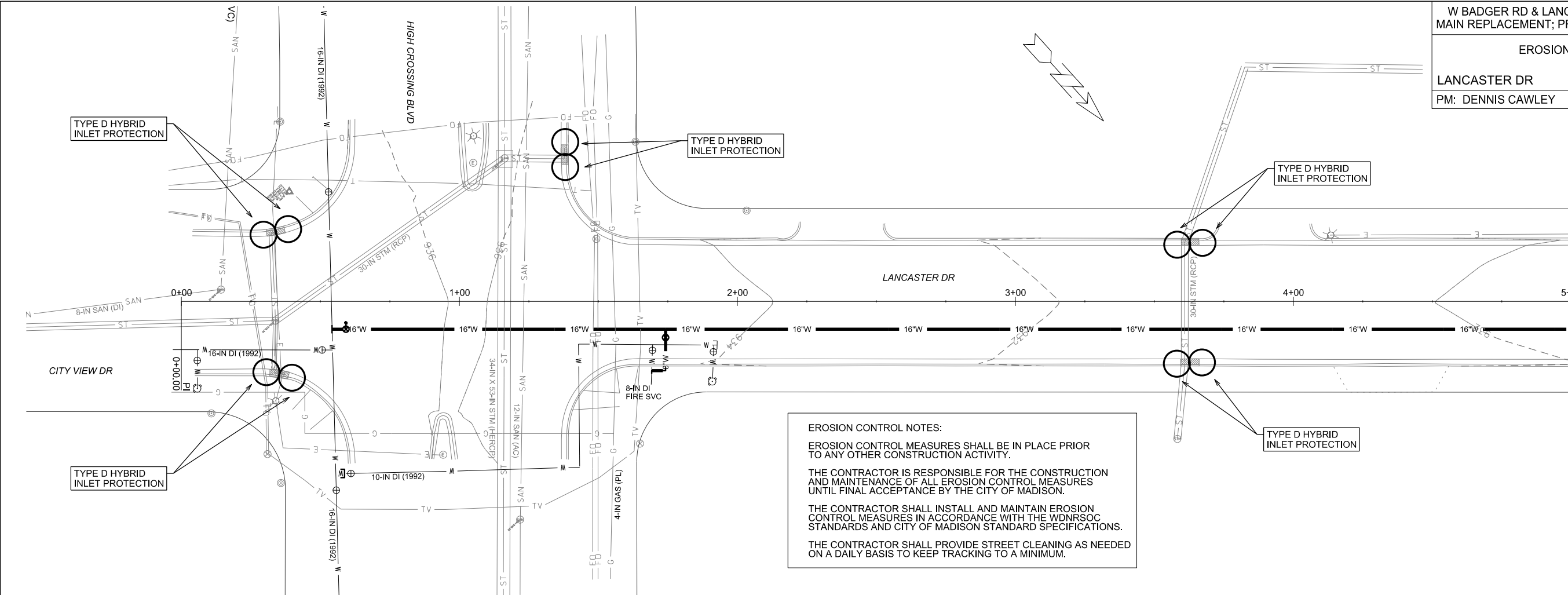
0709-344-0113-7
VP PROPERTIES I LLC
2514 FISH HATCHERY RD

0709-344-0114-5
VP PROPERTIES I LLC
2502 FISH HATCHERY RD



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DATE: 1/14/2014



EROSION CONTROL NOTES:

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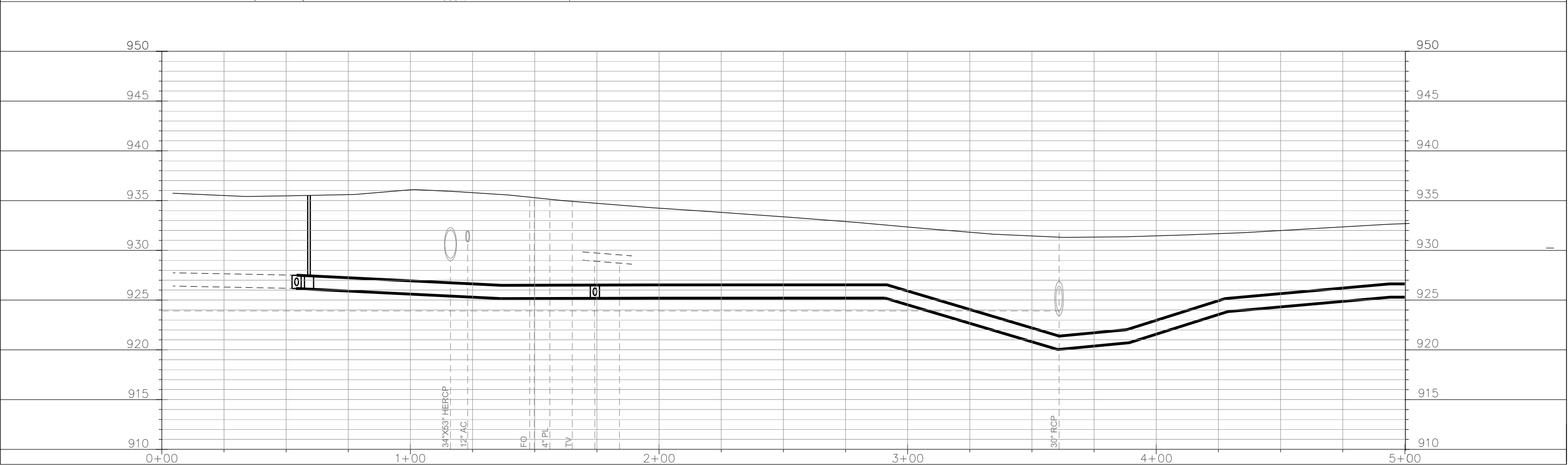
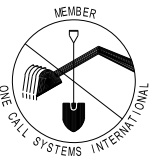
THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

MATCHLINE STA 5+00

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

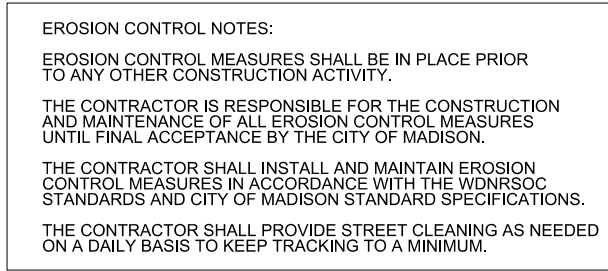
CALL DIGGERS HOTLINE
TOLL FREE
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TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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NOTICE BEFORE YOU EXCAVATE.

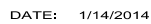


SHEET NO.
EC-5

LANCASTER DR		CITY OF MADISON
PM: DENNIS CAWLEY	DESIGNER: KBM	



ORIGINATOR: CITY OF MADISON, STREETS DIVISION

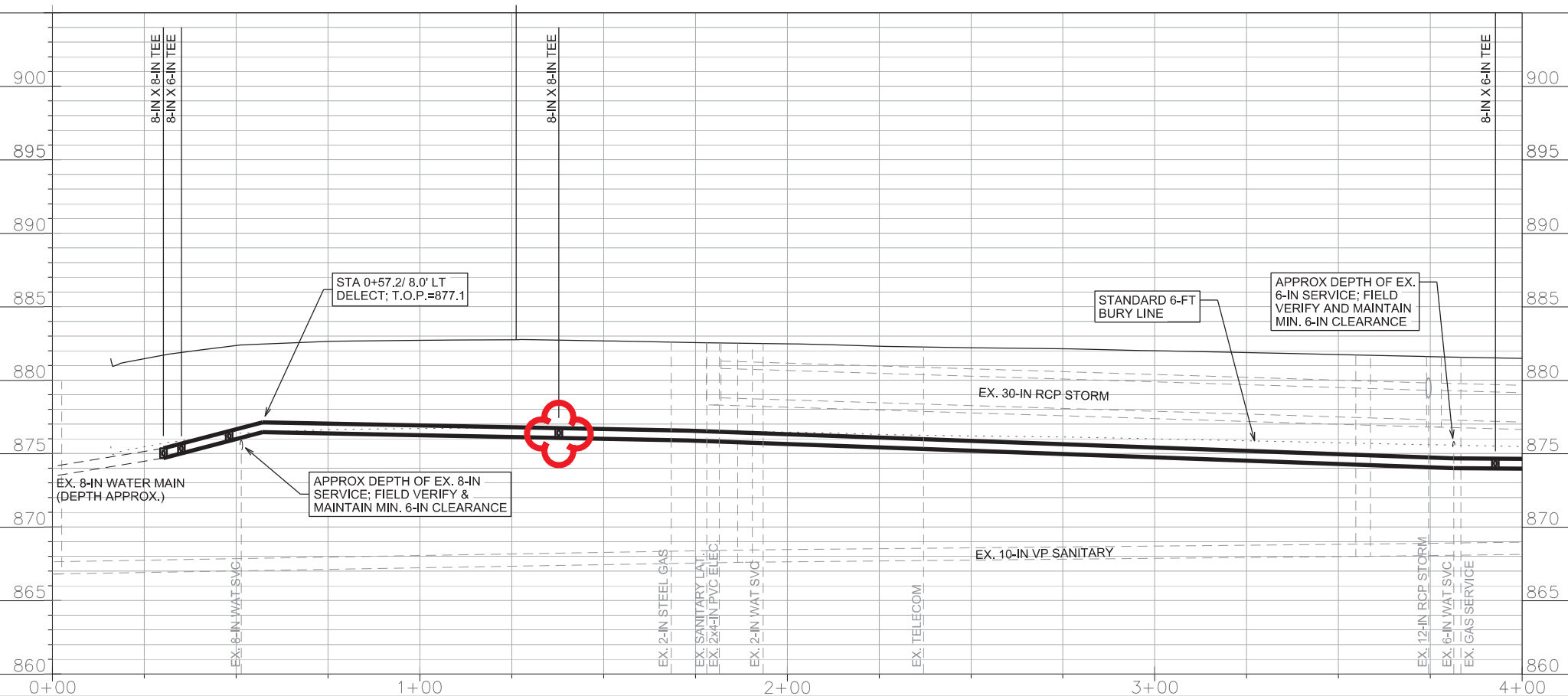


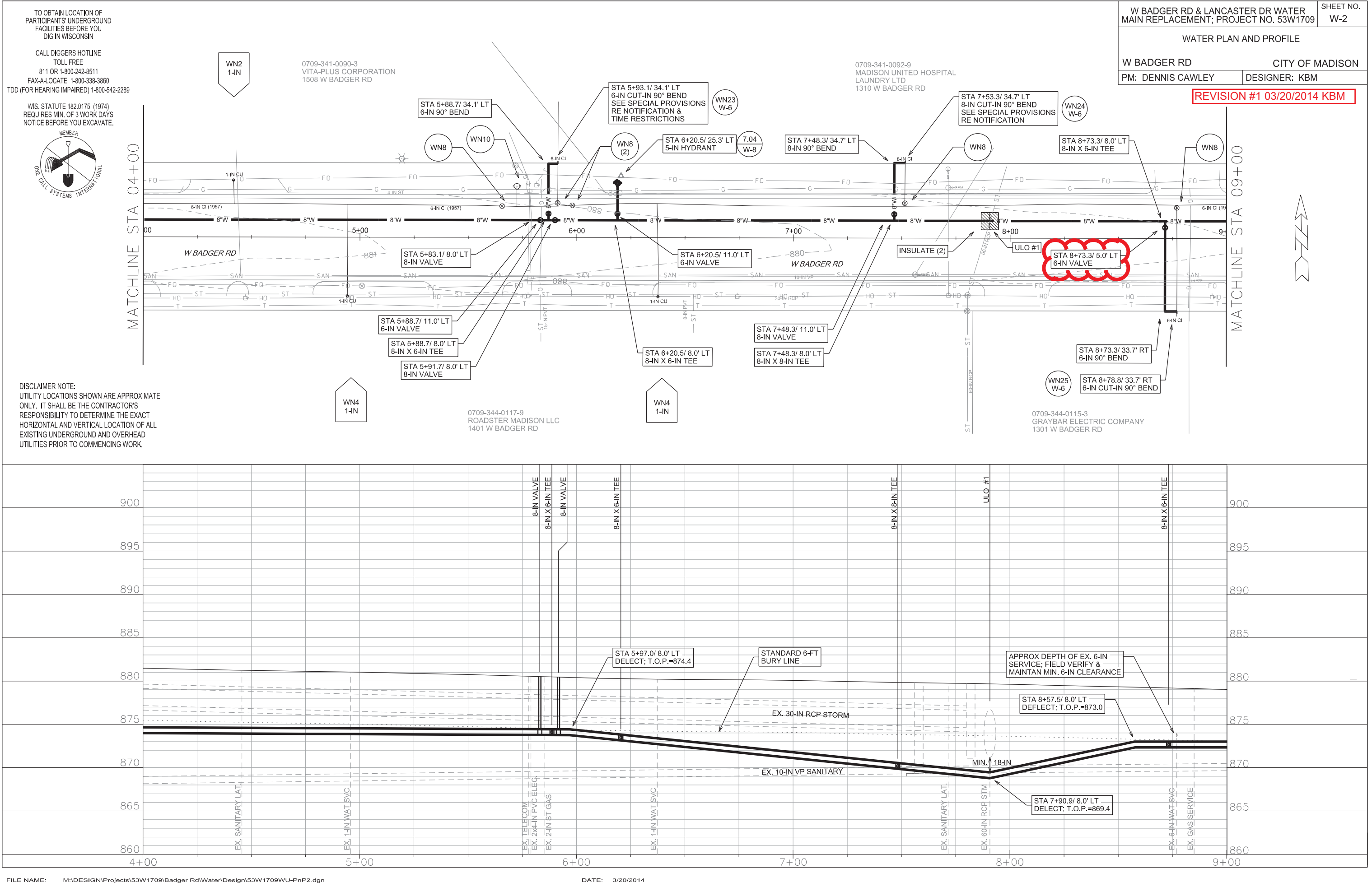
MATCHLINE STA 04+00



0709-344-0101-2
CITY OF MADISON ENGINEERING
ENGINEERING SERVICE BLDG
1602 EMIL ST
PARCEL INCLUDES CITY OF MADISON
BADGER RD MAINTENANCE FACILITY
1501 AND 1509 W BADGER RD

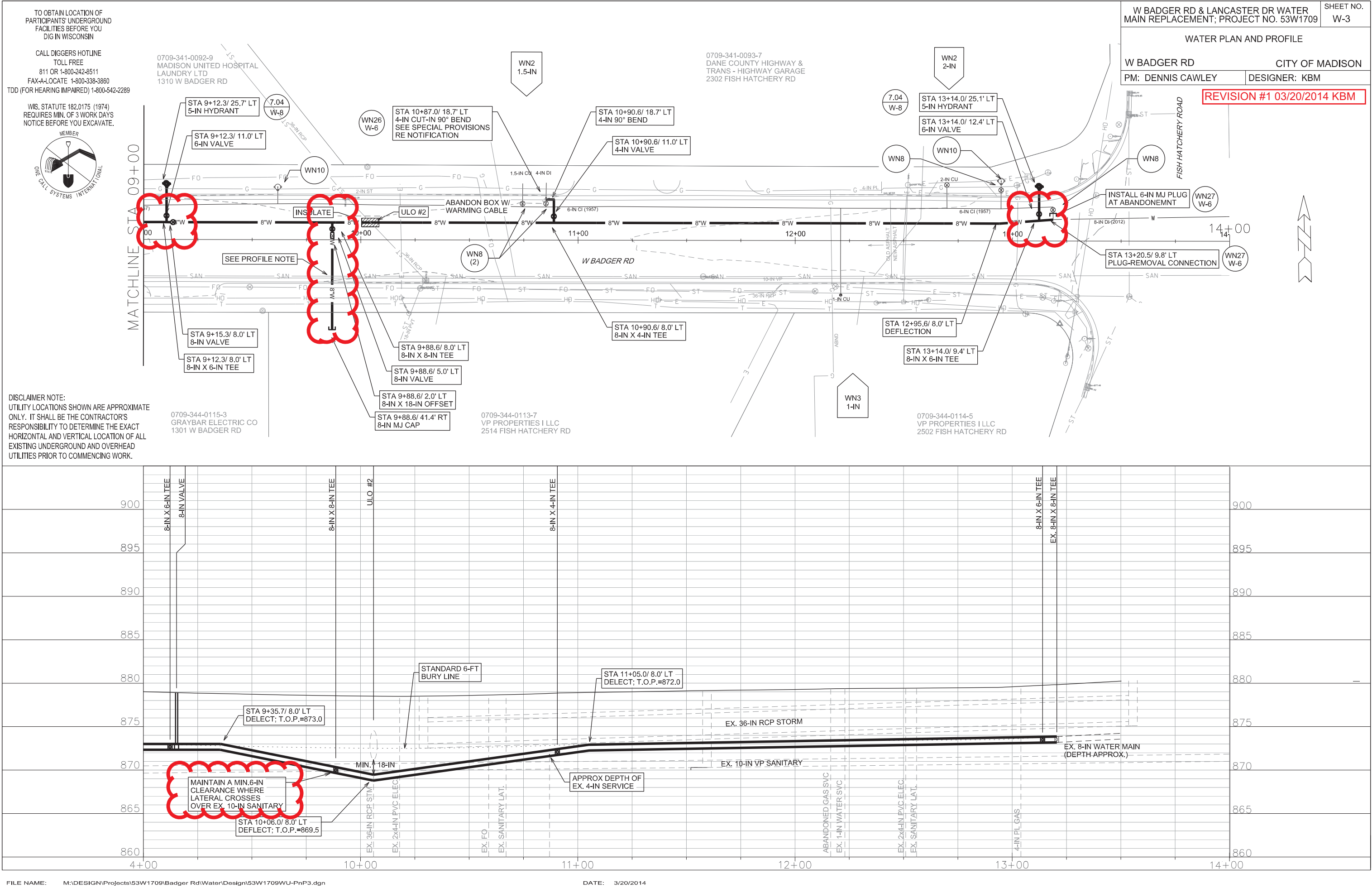
0709-344-0101-2
CITY OF MADISON ENGINEERING
ENGINEERING SERVICE BLDG
1602 EMIL ST
PARCEL INCLUDES CITY OF MADISON
BADGER RD MAINTENANCE FACILITY
1501 AND 1509 W BADGER RD

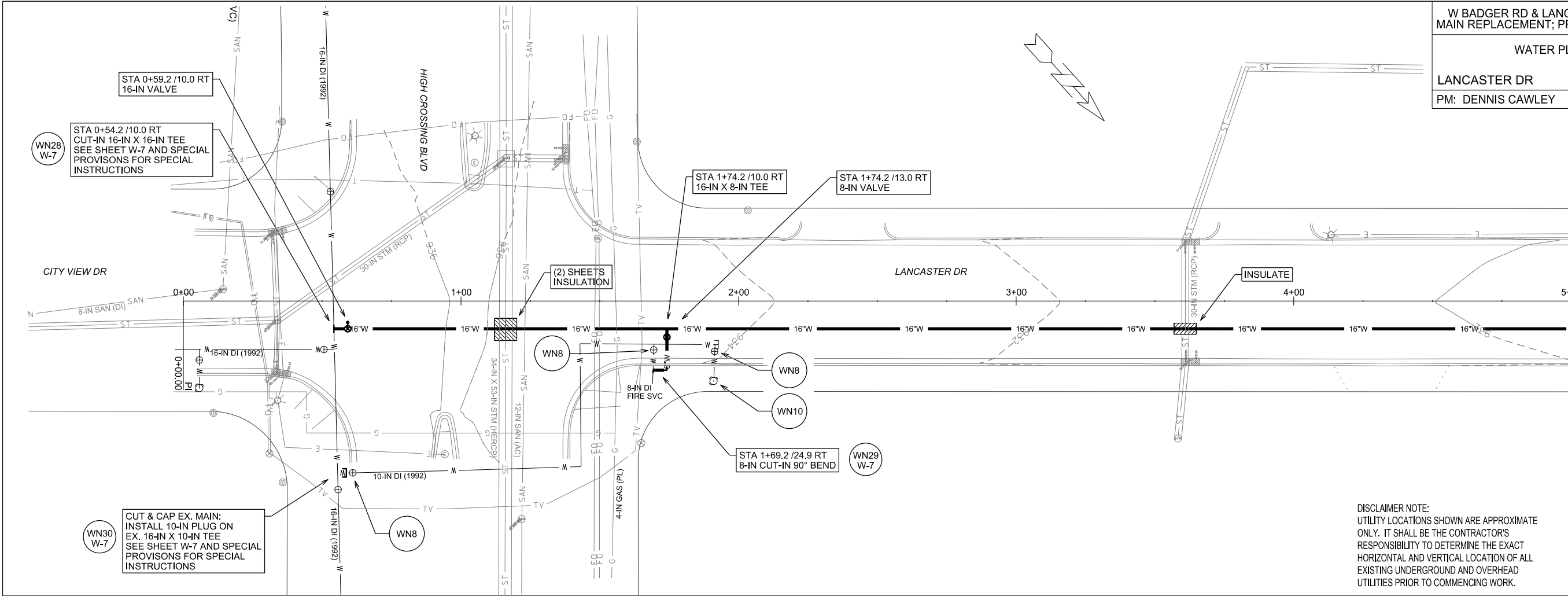




FILE NAME: M:\DESIGN\Projects\53W1709\Badger Rd\Water\Design\53W1709WU-Pn2.dgn

DATE: 3/20/2014





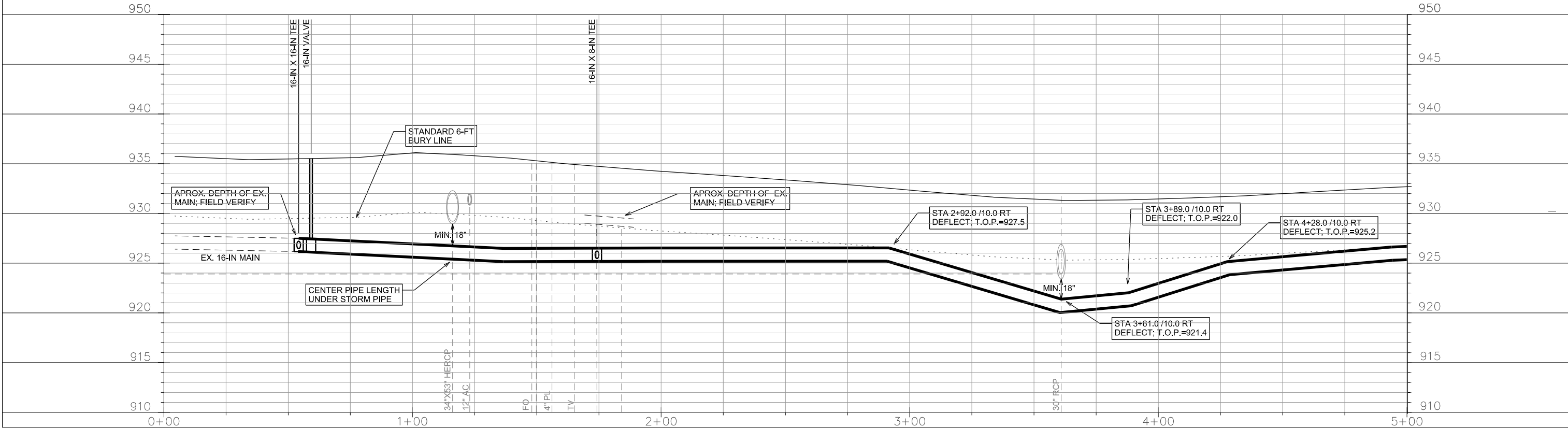
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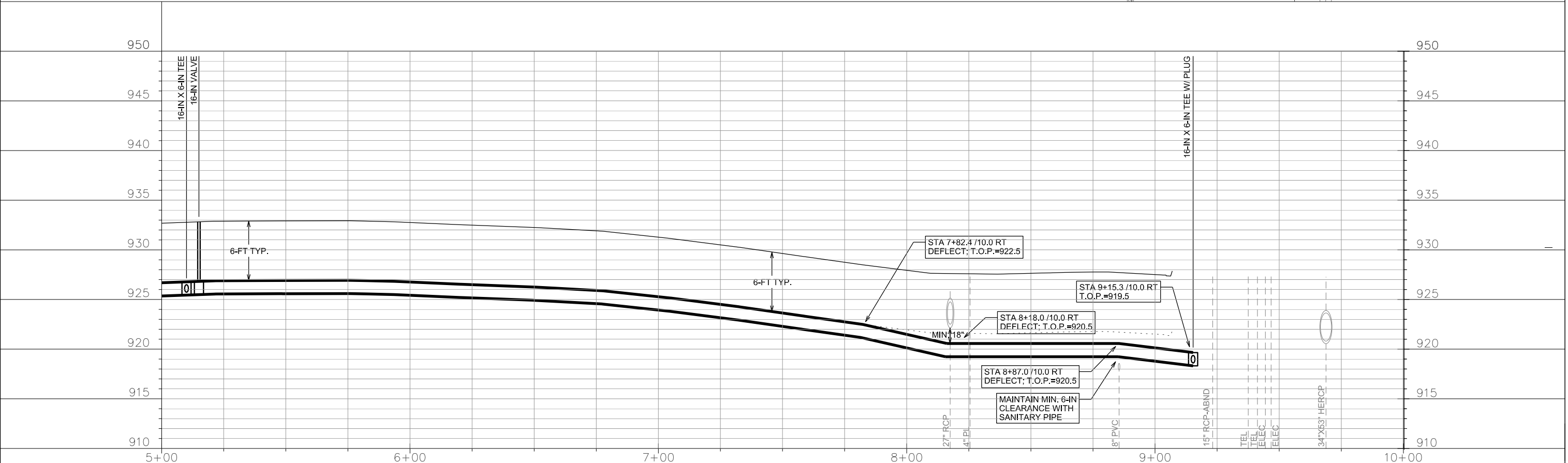
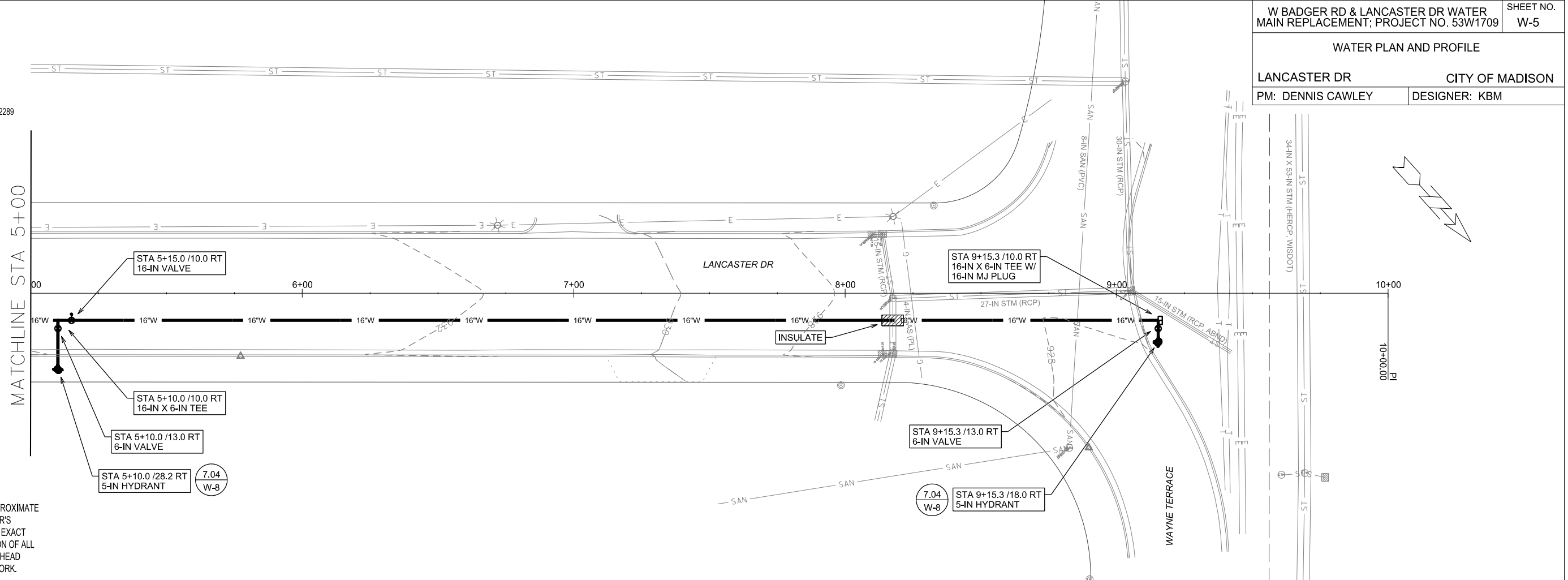
W BADGER RD & LANCASTER DR WATER
MAIN REPLACEMENT; PROJECT NO. 53W1709

WATER PLAN AND PROFILE

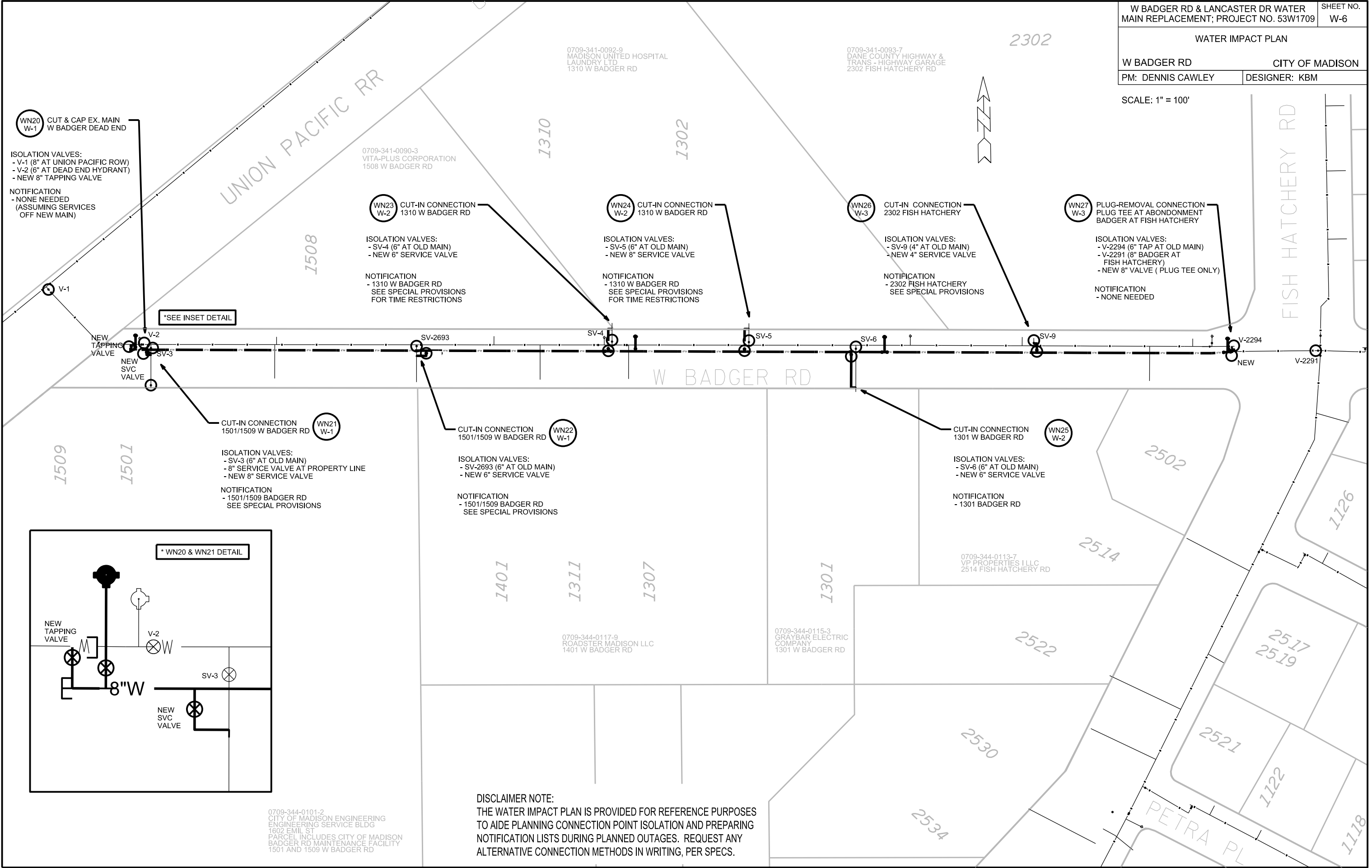
LANCASTER DR CITY OF MADISON

PM: DENNIS CAWLEY DESIGNER: KBM

SHEET NO.
W-5

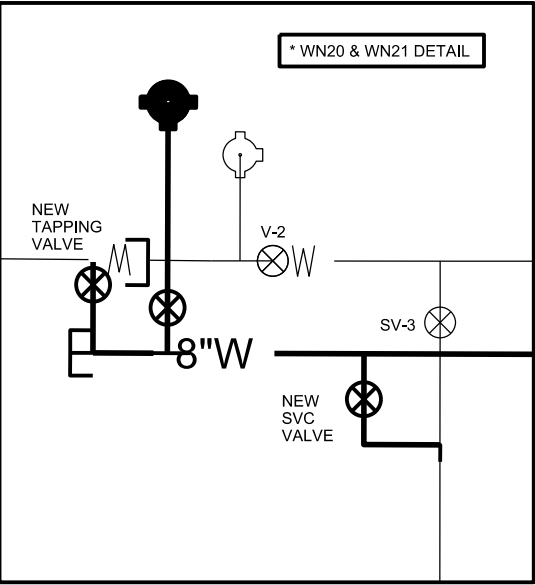


SCALE: 1" = 100'

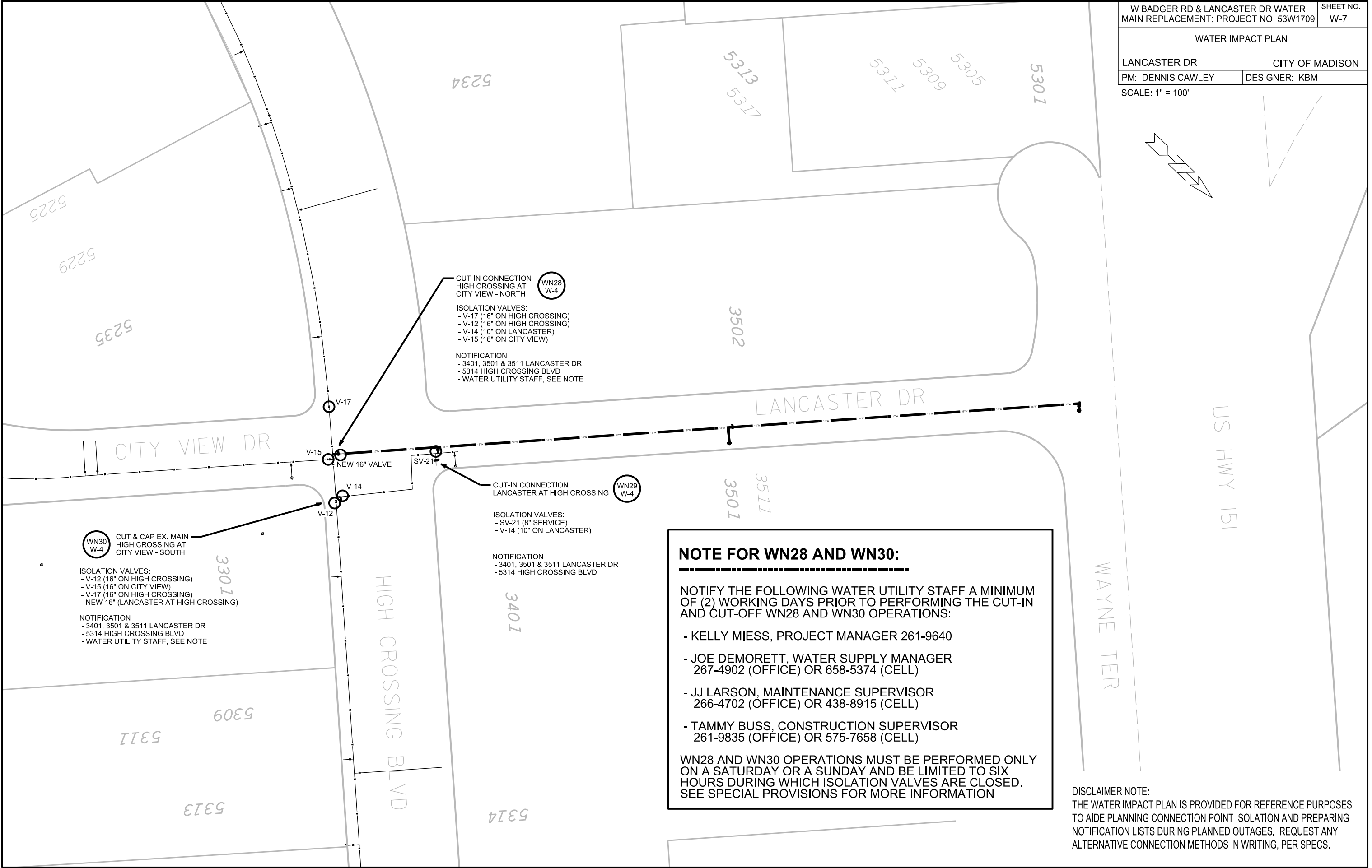


*SEE INSET DETAIL

*WN20 & WN21 DETAIL



DISCLAIMER NOTE:
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES
TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING
NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY
ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.



W BADGER RD & LANCASTER DR WATER MAIN REPLACEMENT; PROJECT NO. 53W1709		SHEET NO. W-7
WATER IMPACT PLAN		
LANCASTER DR		CITY OF MADISON
PM: DENNIS CAWLEY	DESIGNER: KBM	
SCALE: 1" = 100'		

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.

14-FT - 4-IN PIPE	4 - 4-IN 90° BEND
170-FT - 6-IN PIPE	4 - 6-IN 90° BEND
1344-FT - 8-IN PIPE	4 - 8-IN 90° BEND
864-FT - 16-IN PIPE	
2631-FT - POLYWRAP	1 - 6-IN MJ PLUG
	1 - 8-IN MJ PLUG
	1 - 10-IN MJ PLUG
	1 - 16-IN MJ PLUG
1 - 4-IN VALVE & BOX	1 - 8-IN MJ CAP
5 - 6-IN VALVE & BOX	
11 - 8-IN VALVE & BOX	6 - 5-IN HYDRANT
2 - 16-IN VALVE & BOX	
1 - 8-IN X 4-IN TEE	64-FT - 2-IN STYROFOAM INSULATION
7 - 8-IN X 6-IN TEE	
3 - 8-IN X 8-IN TEE	1-IN COPPER (AS R'QD)
2 - 16-IN X 6-IN TEE	1.5-IN COPPER (AS R'QD)
1 - 16-IN X 8-IN TEE	2-IN COPPER (AS R'QD)
1 - 16-IN X 16-IN TEE	

MATERIALS SUPPLIED BY CITY:

1 - 8-IN X 8-IN TAPPING SLEEVE & VALVE

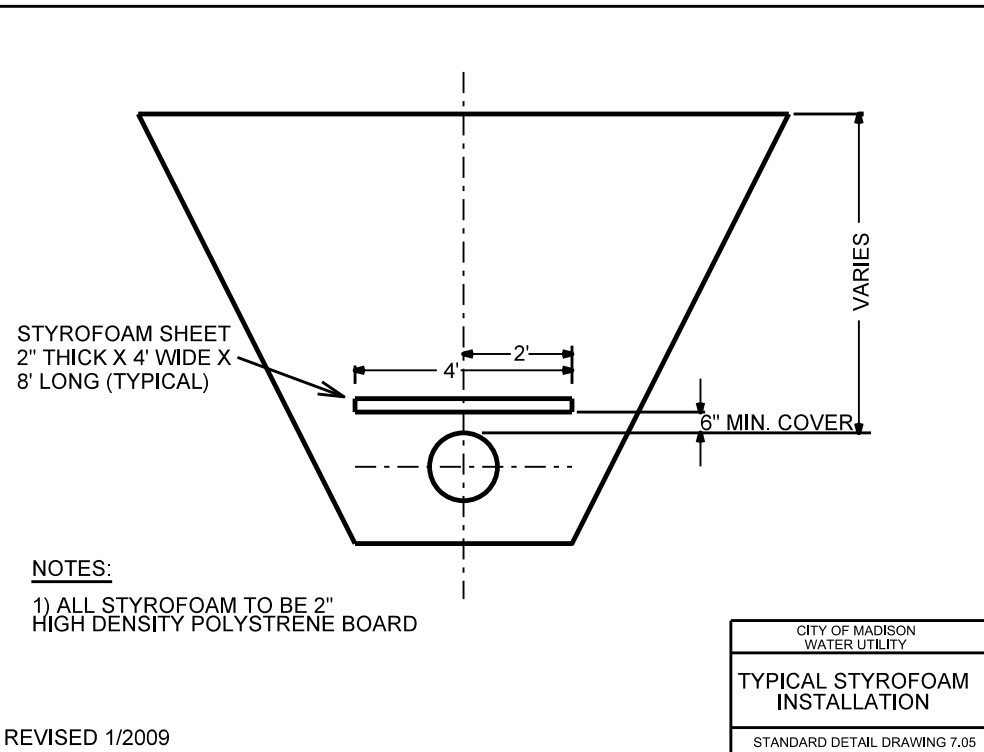
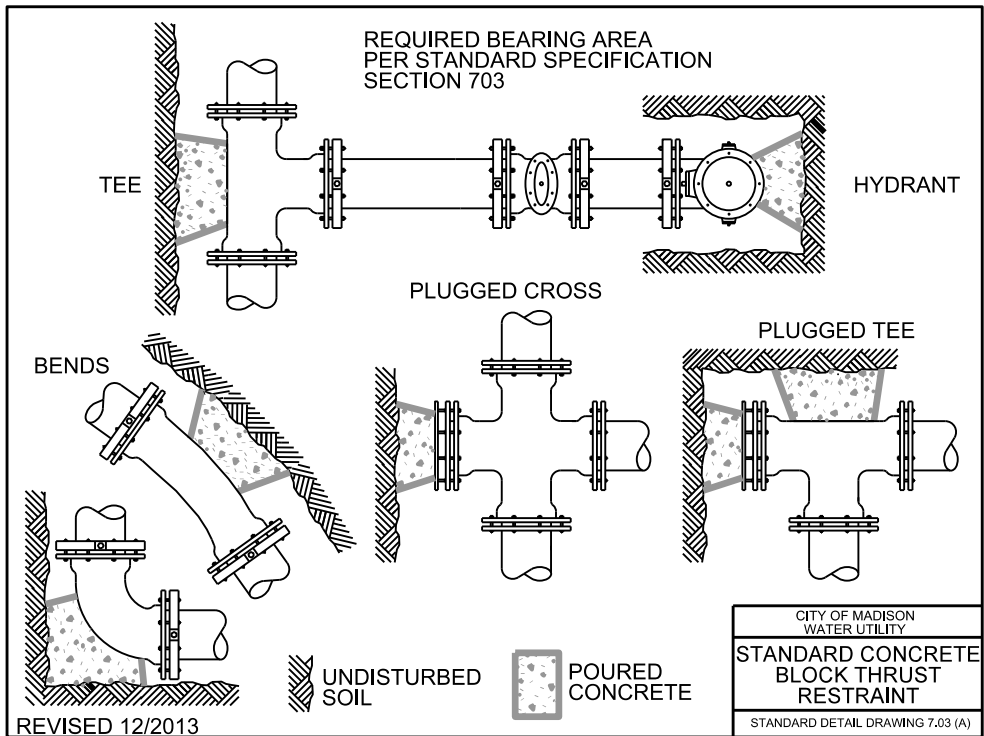
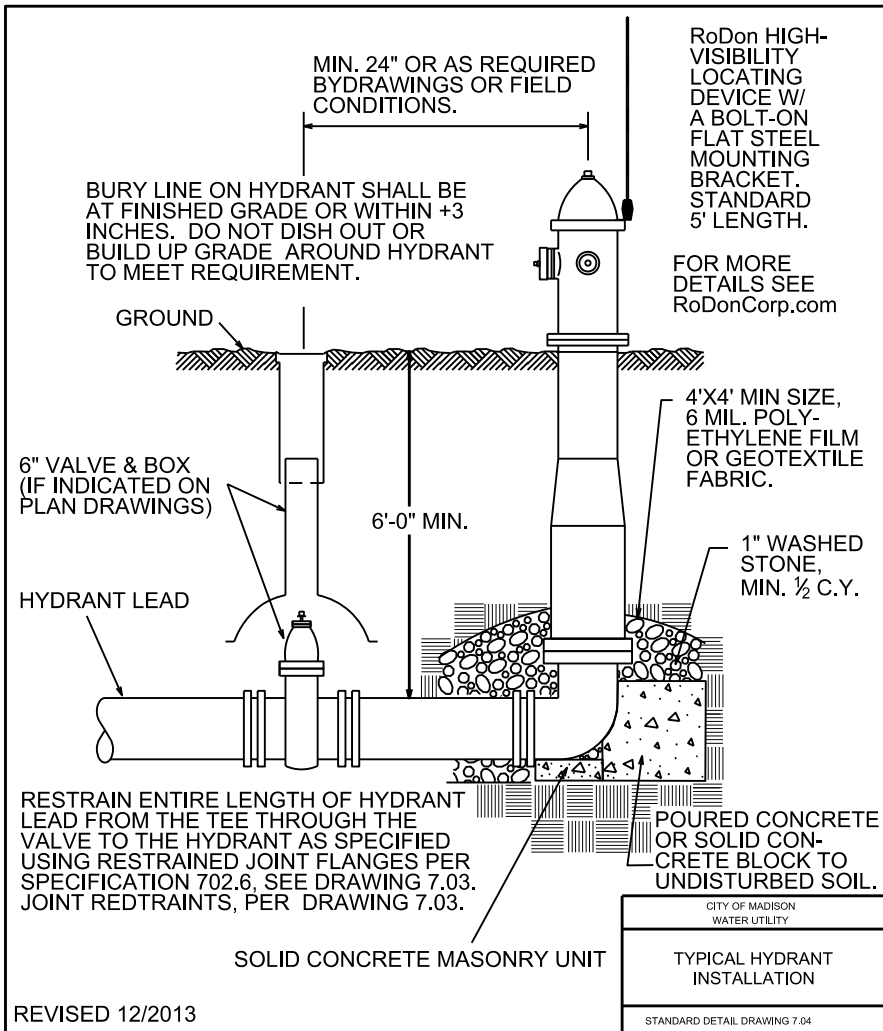
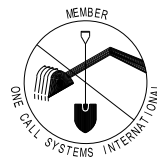
REUSED MATERIALS

NONE

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WIS. STATUTE 182.0175 (1974)
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NOTICE BEFORE YOU EXCAVATE.



NOTES:

- 1) ALL STYROFOAM TO BE 2" HIGH DENSITY POLYSTYRENE BOARD

REVISED 1/2009

W BADGER RD & LANCASTER DR WATER
MAIN REPLACEMENT; PROJECT NO. 53W1709

SHEET NO.
W-8

WATER ESTIMATE OF MATERIALS

BADGER/LANCASTER CITY OF MADISON
PM: DENNIS CAWLEY DESIGNER: KBM



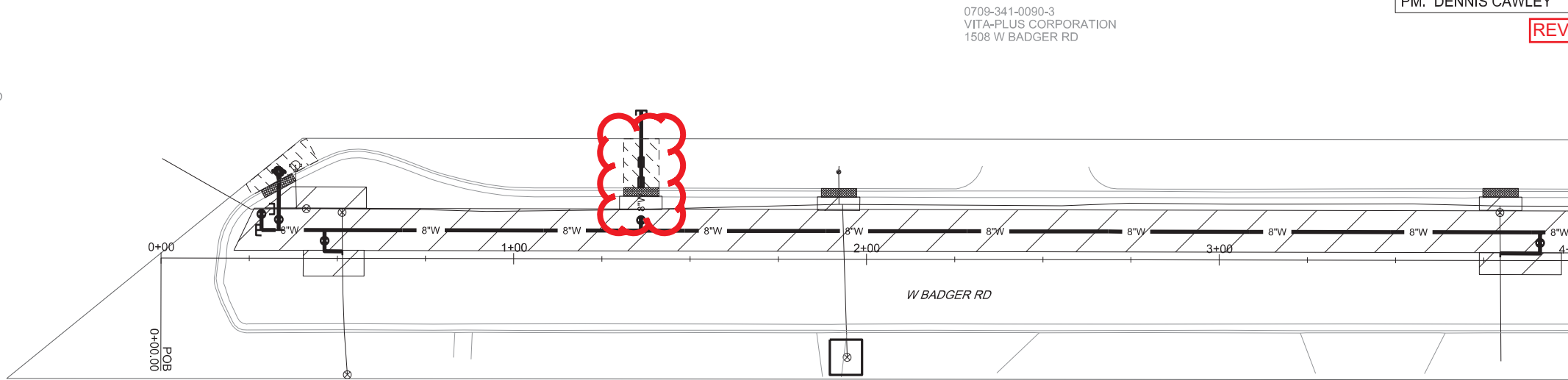
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0709-344-0101-2
CITY OF MADISON ENGINEERING
ENGINEERING SERVICE BLDG
1602 EMIL ST
PARCEL INCLUDES CITY OF MADISON
BADGER RD MAINTENANCE FACILITY
1501 AND 1509 W BADGER RD

UTILITY TRENCH
PATCH TYPE III

DRIVEWAY
REPAIR

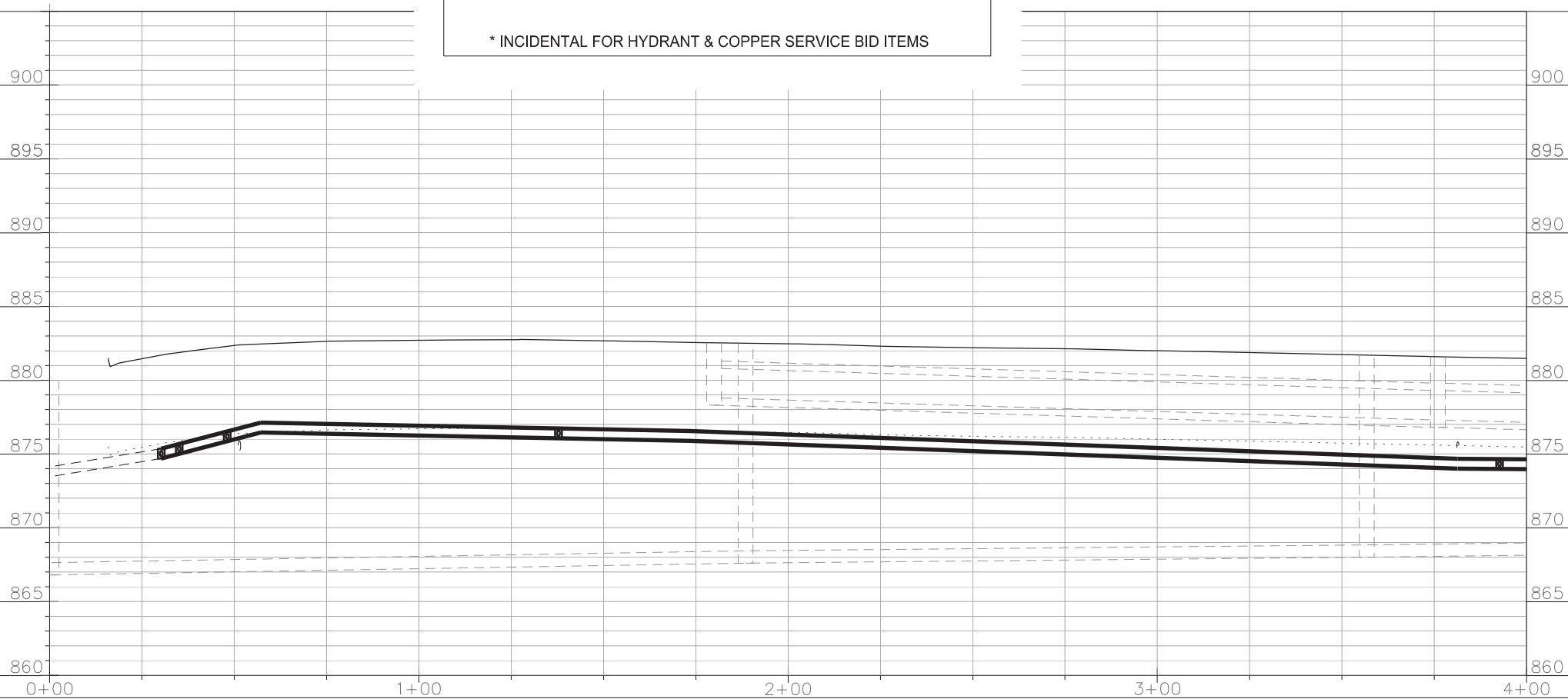
CURB & GUTTER
REPAIR

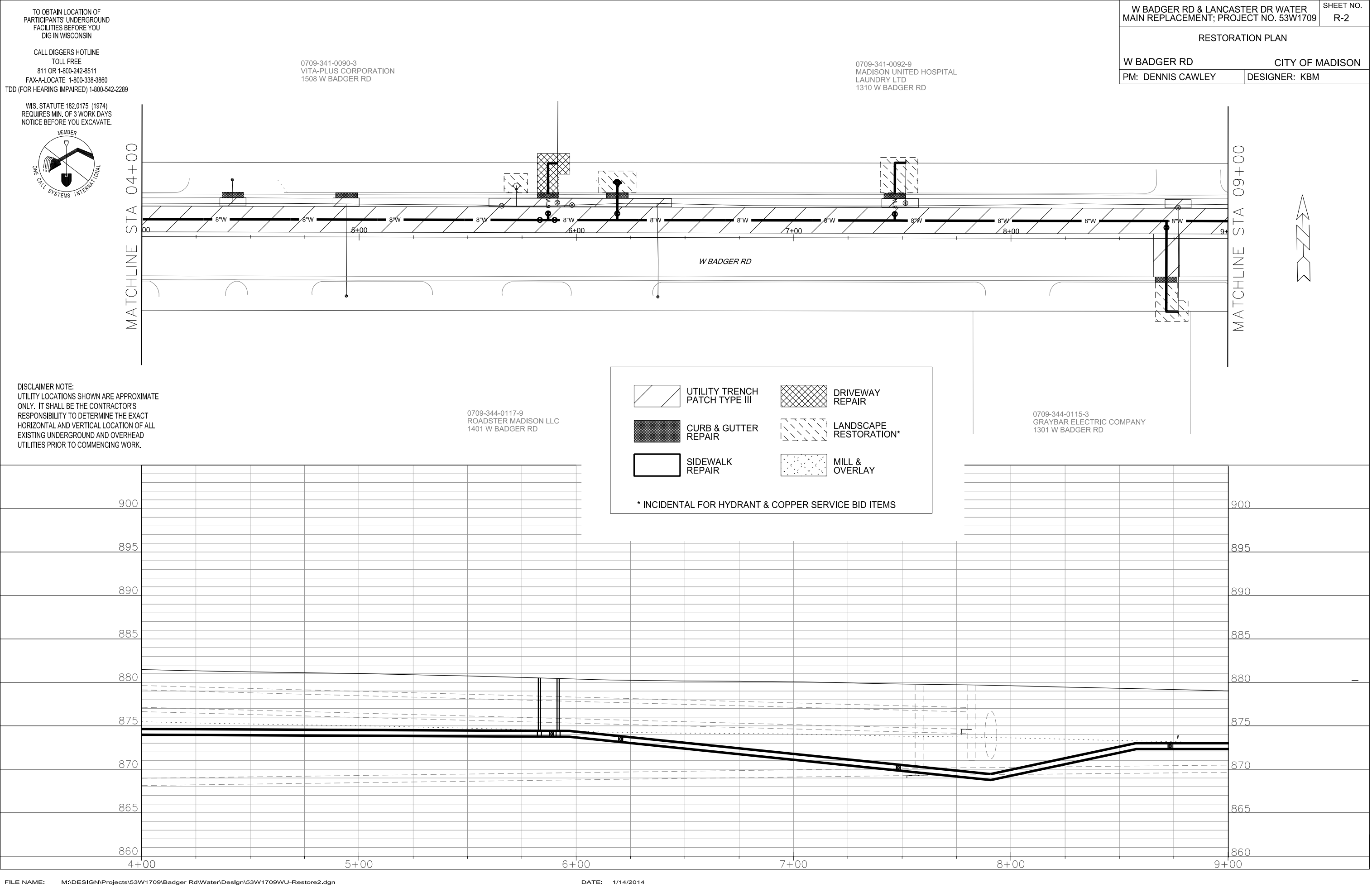
LANDSCAPE
RESTORATION*

SIDEWALK
REPAIR

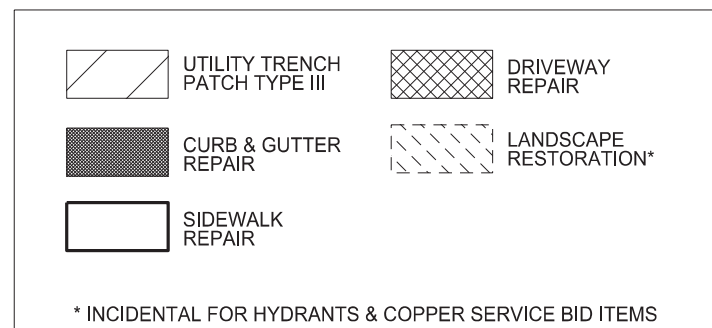
* INCIDENTAL FOR HYDRANT & COPPER SERVICE BID ITEMS

0709-344-0101-2
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ENGINEERING SERVICE BLDG
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PARCEL INCLUDES CITY OF MADISON
BADGER RD MAINTENANCE FACILITY
1501 AND 1509 W BADGER RD



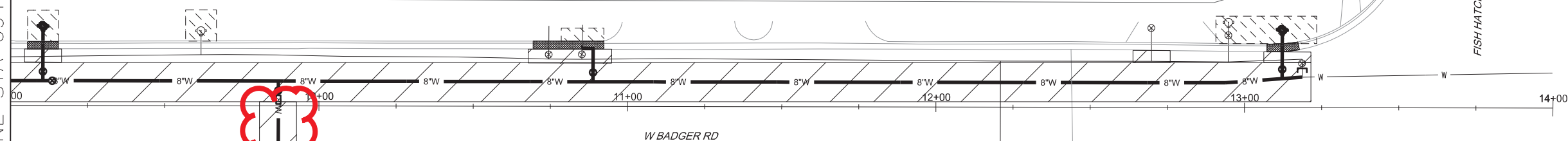


MATCHLINE STA 09+00



0709-341-0093-7
DANE COUNTY HIGHWAY &
TRANS - HIGHWAY GARAGE
2302 FISH HATCHERY RD

W BADGER RD & LANCASTER DR WATER MAIN REPLACEMENT; PROJECT NO. 53W1709		SHEET NO. R-3
RESTORATION PLAN		
W BADGER RD		CITY OF MADISON
PM: DENNIS CAWLEY	DESIGNER: KBM	
REVISION #1 03/20/2014 KBM		

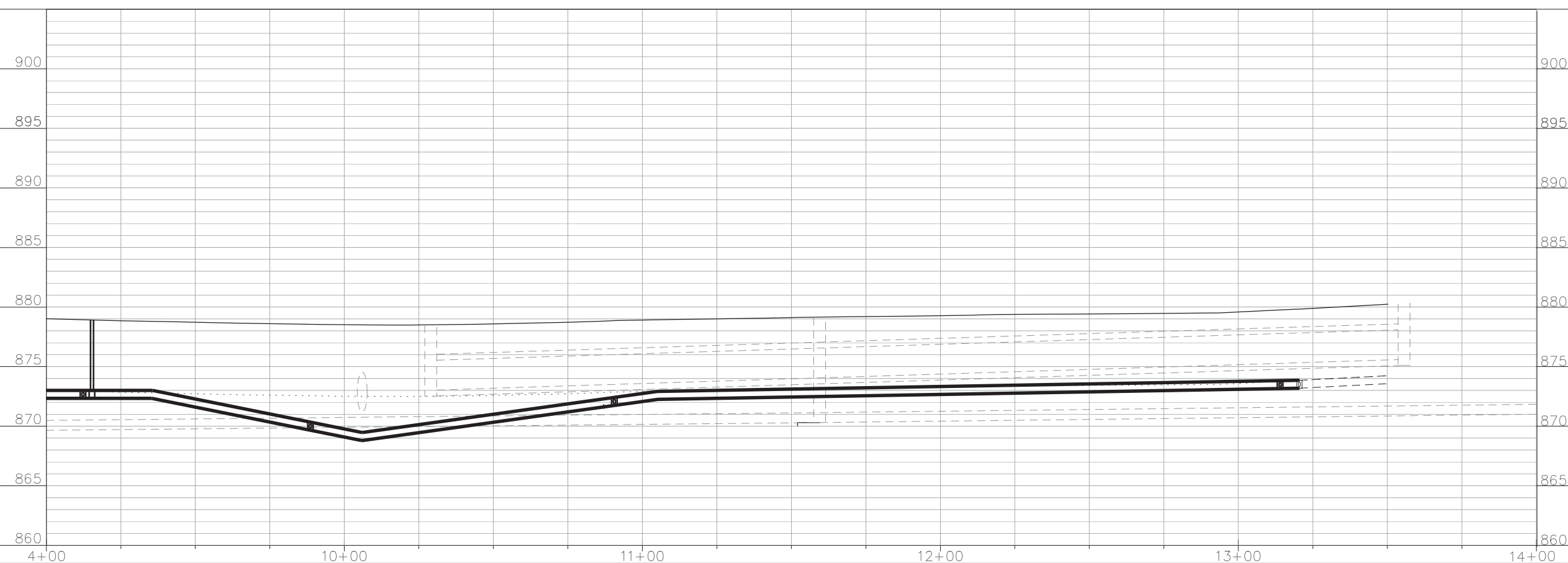


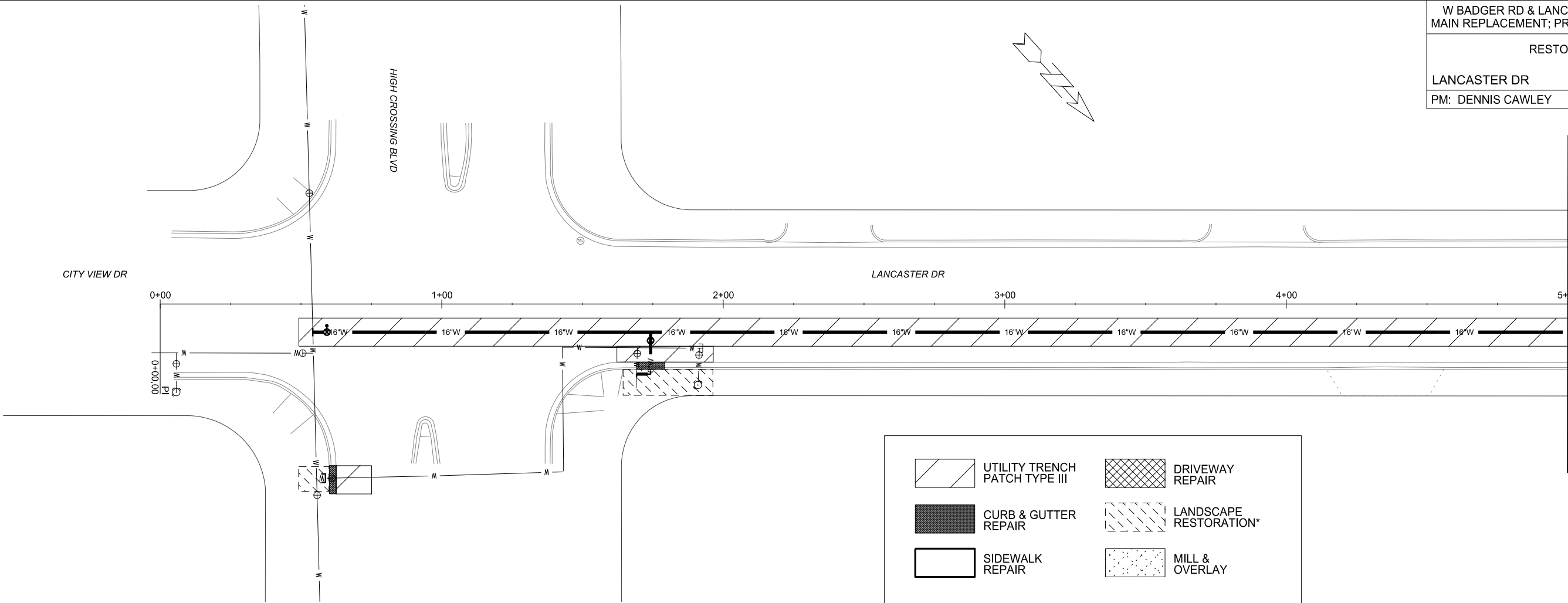
DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE
ONLY. IT SHALL BE THE CONTRACTOR'S
RESPONSIBILITY TO DETERMINE THE EXACT
HORIZONTAL AND VERTICAL LOCATION OF ALL
EXISTING UNDERGROUND AND OVERHEAD
UTILITIES PRIOR TO COMMENCING WORK.

0709-344-0115-3
GRAYBAR ELECTRIC CO
1301 W BADGER RD

0709-344-0113-7
VP PROPERTIES I LLC
2514 FISH HATCHERY RD

0709-344-0114-5
VP PROPERTIES I LLC
2502 FISH HATCHERY RD





	UTILITY TRENCH PATCH TYPE III		DRIVEWAY REPAIR
	CURB & GUTTER REPAIR		LANDSCAPE RESTORATION*
	SIDEWALK REPAIR		MILL & OVERLAY

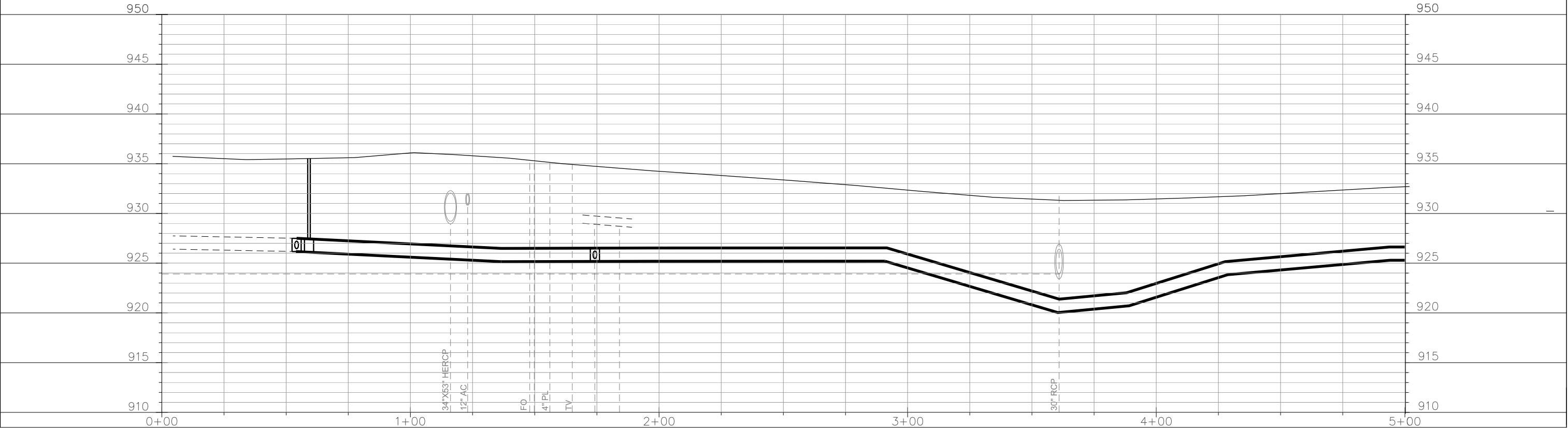
* INCIDENTAL FOR HYDRANT & COPPER SERVICE BID ITEMS

MATCHLINE STA 5+00

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.



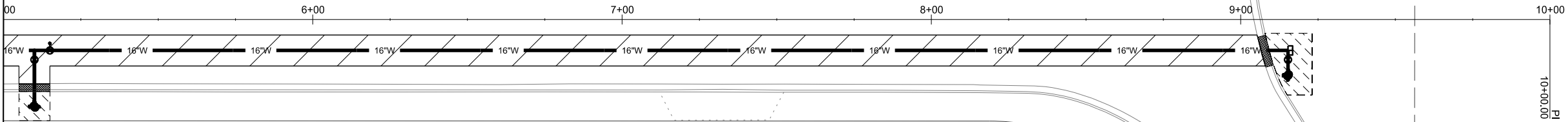
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MATCHLINE STA 5+00



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PATCH TYPE III

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CURB & GUTTER
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LANDSCAPE
RESTORATION*

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