

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS

### PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT  
APPROVED

JUNE 3, 2014

BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

*[Signature]* 6/3/14  
City Engineer Date

SANITARY SEWER  
DESIGNED BY:

*[Signature]*  
MARK D. MODER  
#33979  
MADISON  
WI  
PROFESSIONAL ENGINEER  
7/31/14

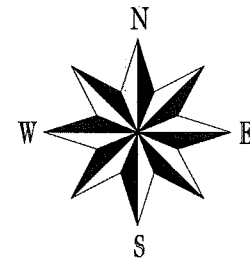
#### INDEX OF SHEETS

SHEET NO.	1	TITLE
SHEET NO.	D1	TYPICAL SECTION
SHEET NO.	U1-U2	UTILITY OVERVIEW PLAN
SHEET NO.	U3-U18	UTILITY PLAN AND PROFILE
SHEET NO.	U19	SANITARY SEWER SCHEDULE
SHEET NO.	MI-M3	PAVEMENT MARKING PLANS

### LOWER BADGER MILL CREEK SANITARY SEWER INTERCEPTOR, PHASE 2

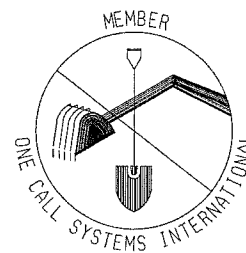
PROJECT NO. 53W1299

CONTRACT NO. 7291



CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
FIBER OPTIC	FO
TELEPHONE	T
GAS	G
STORM SEWER	ST
SANITARY SEWER	SAN
WATER	W
OVERHEAD ELECTRIC	OH
POWER POLE	[Symbol]
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	[Symbol]
COMBUSTIBLE FLUIDS	CAUTION

### PROJECT LIMITS



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

CALL DIGGERS HOTLINE

811

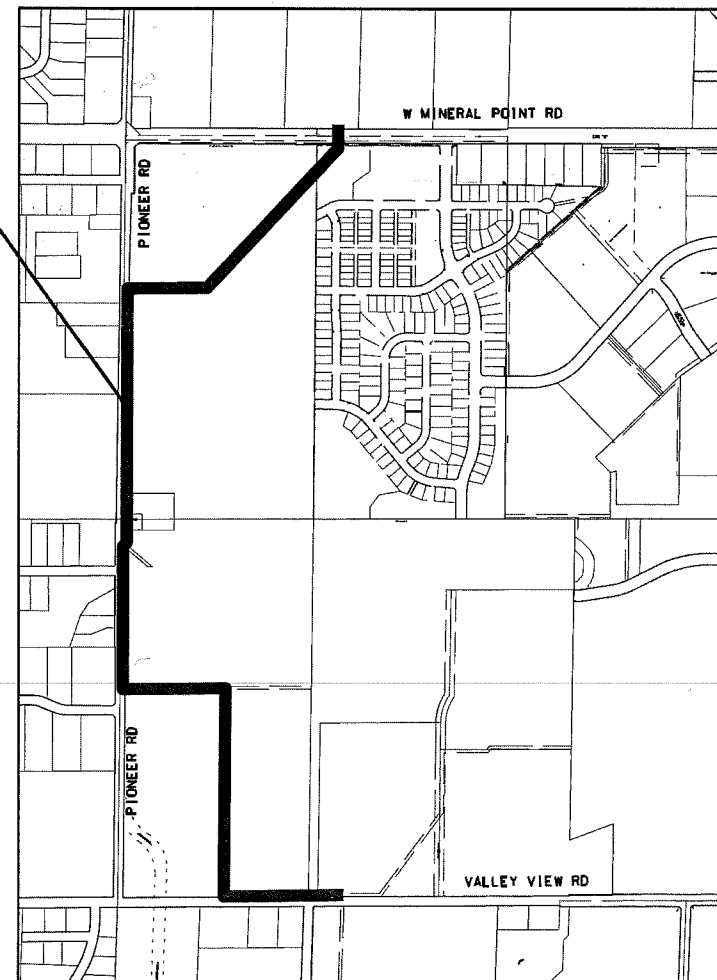
or 1-800-242-8511

TOLL FREE

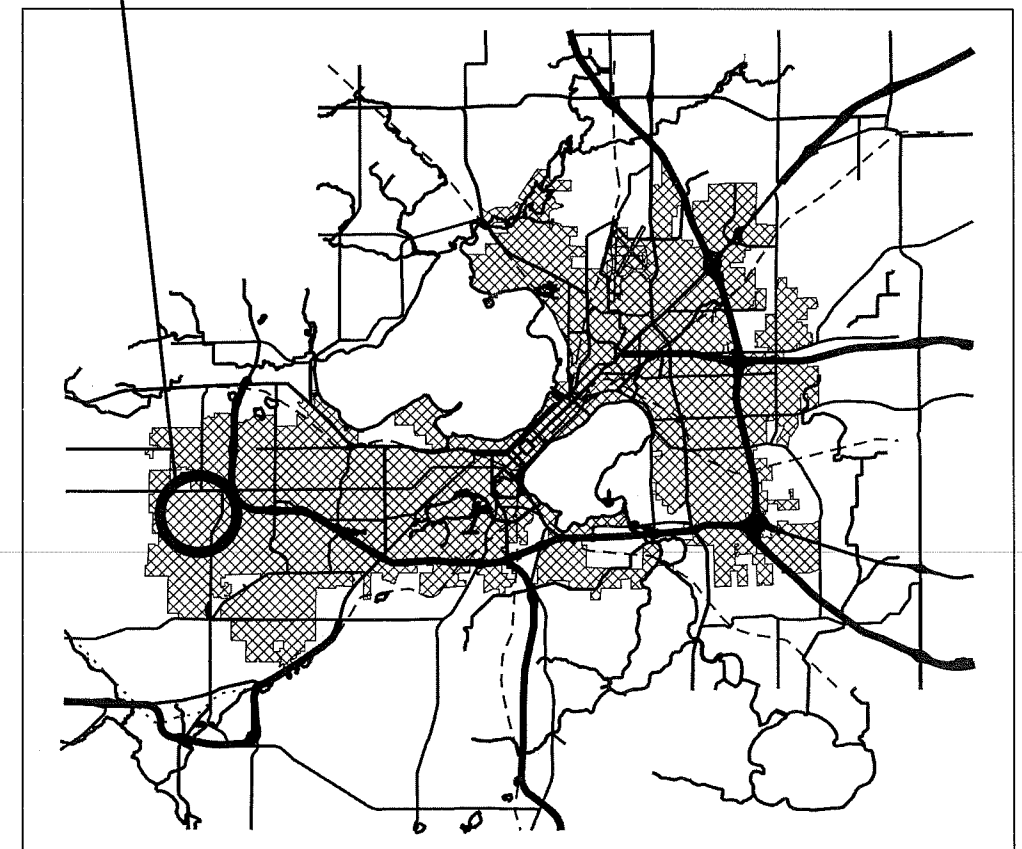
FAX-A-LOCATE 1-800-338-3860

TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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



### PROJECT LOCATION

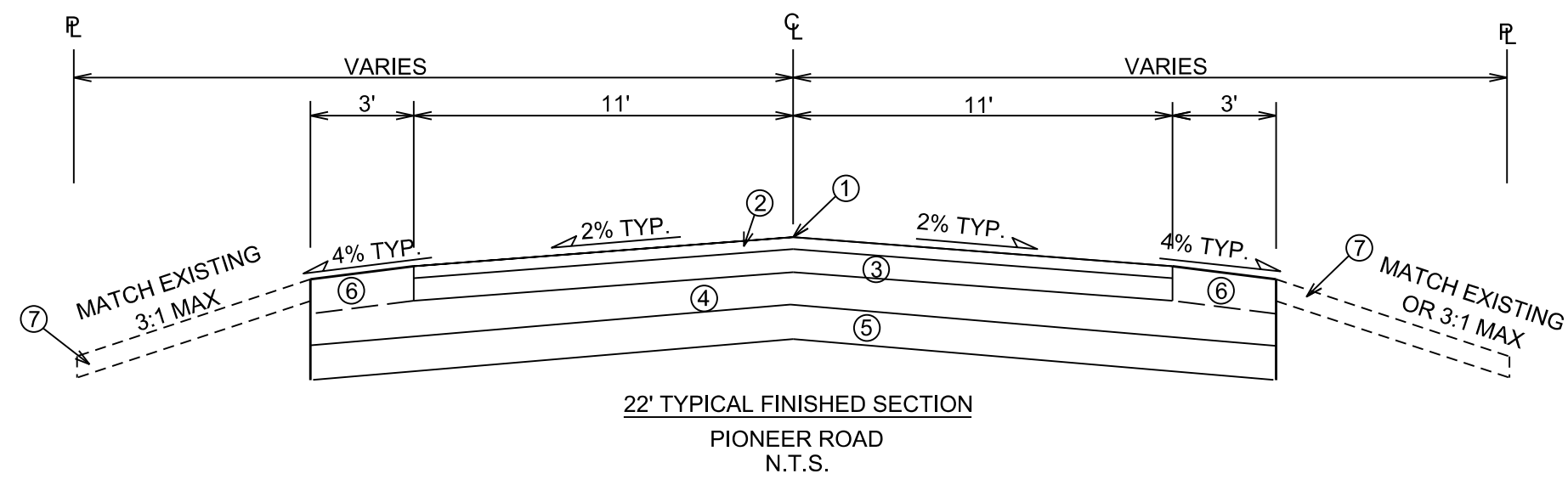


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



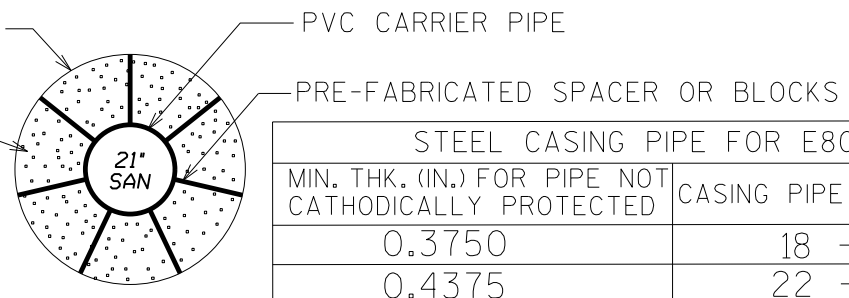
- ① POINT REFERRED TO ON PROFILE
- ② 1 3/4" BITUMINOUS UPPER LAYER, TYPE E-1
- ③ 2 1/4" BITUMINOUS LOWER BINDER LAYER, TYPE E-1
- ④ 6" GRADATION 2 OR 3 CRUSHED AGGREGATE
- ⑤ 6" CRUSHED STONE BASE COURSE NO. 1
- ⑥ 3.5" CRUSHED STONE BASE COURSE NO. 3
- ⑦ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED & MAT

CASING PIPE TO BE SIZED BY THE CONTRACTOR  
MIN. CASING SIZE 36" DIAMETER

FILL VOIDS W/ BLOWN SAND.

NOTE:

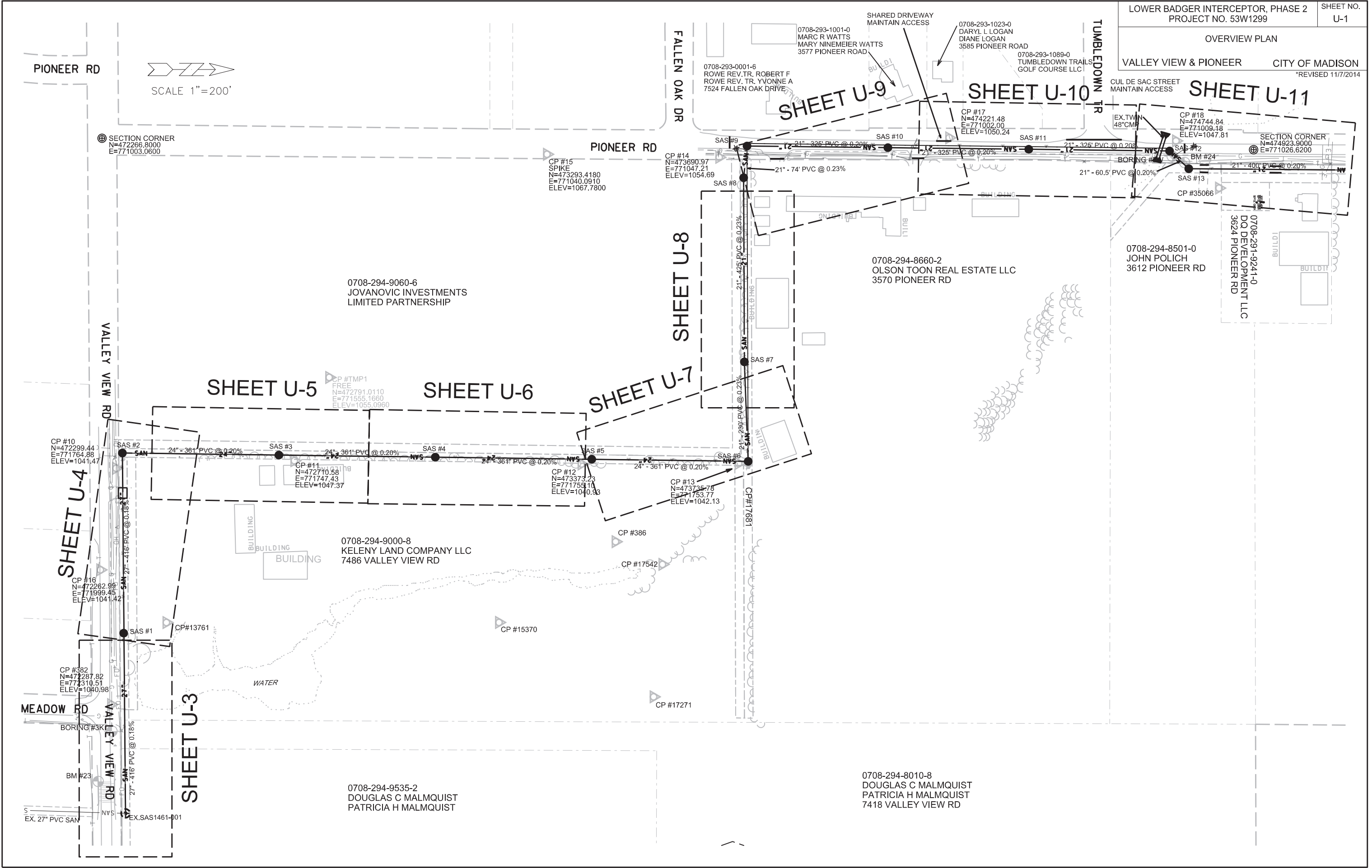
WALL THICKNESS FOR STEEL CASING PIPE WITH 35,000 P.S.I. MIN. YIELD STRENGTH. FOR MATERIAL OF LOWER YIELD STRENGTH, INCREASE THICKNESS AN ADDITIONAL 1/16".



STEEL CASING PIPE FOR E80 LOADING	
MIN. THK. (IN.) FOR PIPE NOT CATHODICALLY PROTECTED	CASING PIPE DIAMETER (IN.)
0.3750	18 - 22
0.4375	22 - 25
0.500	25 - 34
0.5625	34 - 42
0.6250	42 - 48

MINERAL POINT ROAD CROSSING CASING PIPE DETAIL  
NOT TO SCALE

PLOT SCALE: \_\_\_\_\_  
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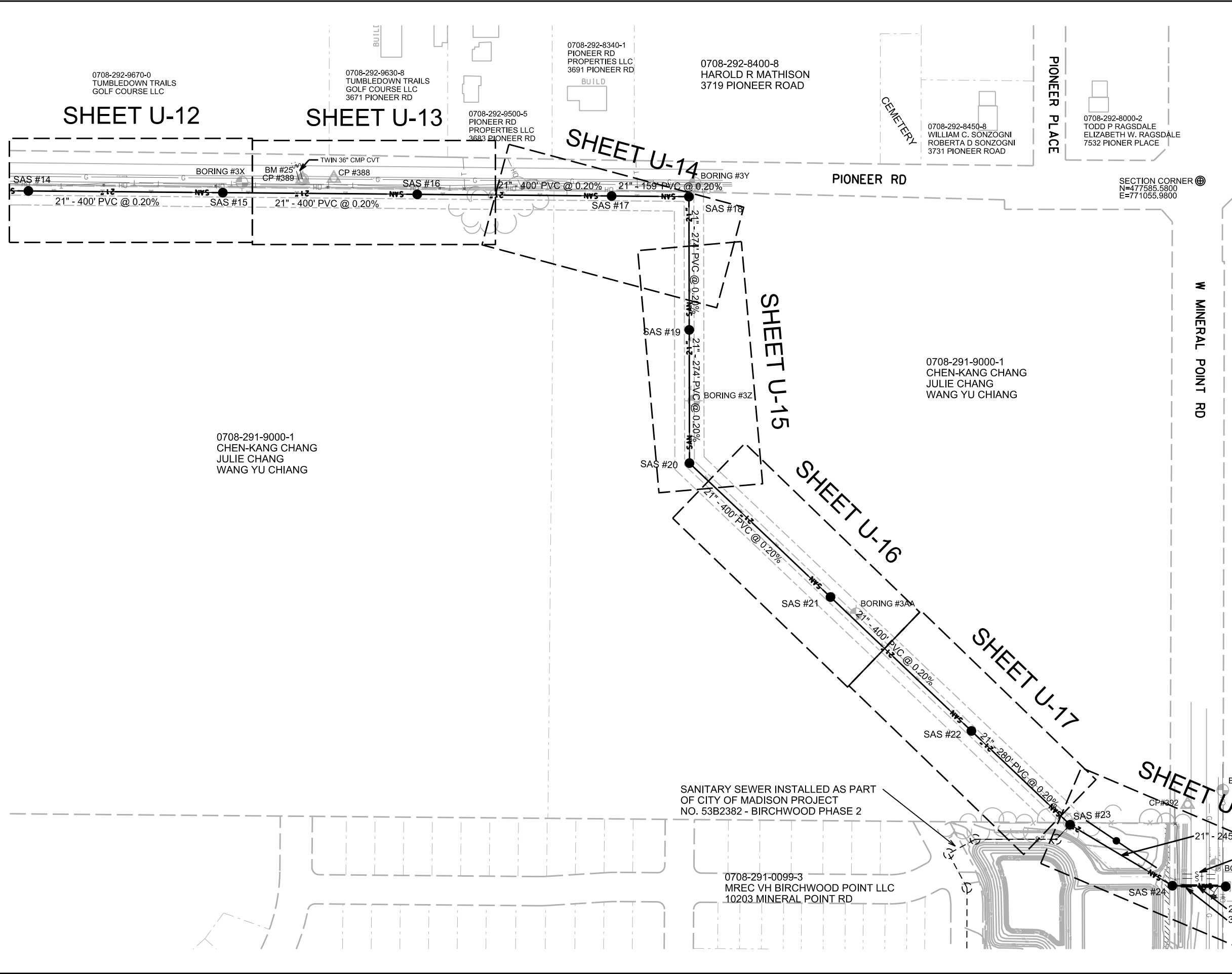
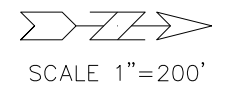


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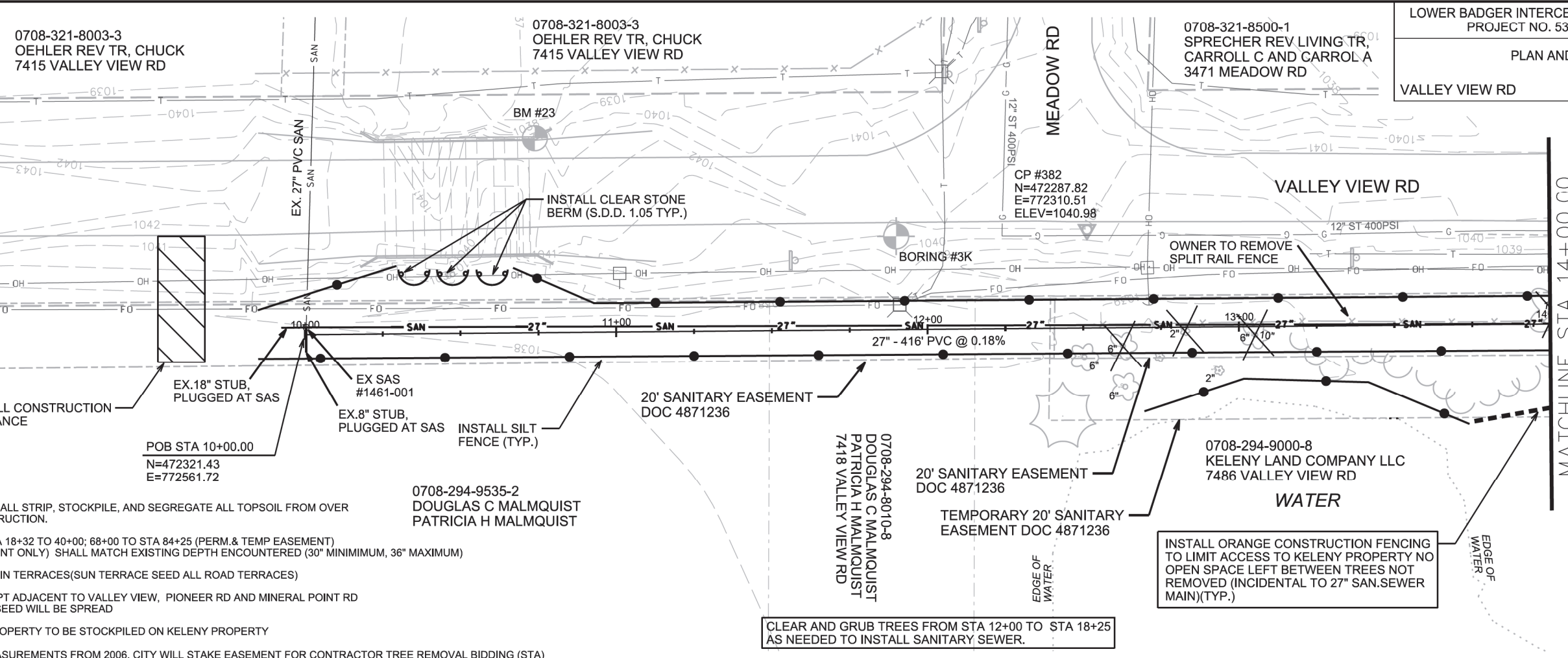
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SANITARY SEWER INSTALLED AS PART  
OF CITY OF MADISON PROJECT  
NO. 53B2382 - BIRCHWOOD PHASE 2

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

\*REVISED 11/7/2014 MDM  
\*REVISED 12/12/2014 MDM



SALVAGE TOPSOIL: CONTRACTOR SHALL STRIP, STOCKPILE, AND SEGREGATE ALL TOPSOIL FROM OVER TRENCH PRIOR TO START OF CONSTRUCTION.

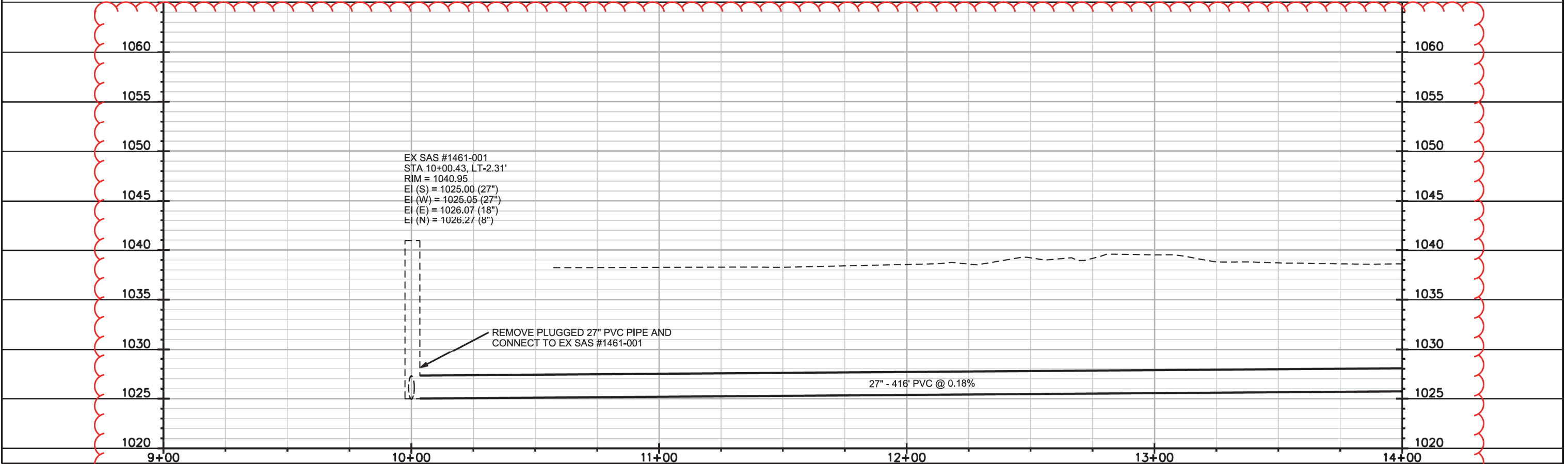
TOPSOIL PLACEMENT FARMLAND STA 18+32 TO 40+00; 68+00 TO STA 84+25 (PERM. & TEMP EASEMENT) & STA 53+77 TO 68+00 (TEMP EASEMENT ONLY) SHALL MATCH EXISTING DEPTH ENCOUNTERED (30" MINIMUM, 36" MAXIMUM)

TOPSOIL DEPTH GENERAL- 6" DEPTH IN TERRACES(SUN TERRACE SEED ALL ROAD TERRACES)

TEMPORARY SEED CROPLAND EXCEPT ADJACENT TO VALLEY VIEW, PIONEER RD AND MINERAL POINT RD WHERE SUN TERRACE PERMANENT SEED WILL BE SPREAD

SURPLUS TOPSOIL FROM KELENY PROPERTY TO BE STOCKPILED ON KELENY PROPERTY

NOTE: TREE SIZES ON PLAN ARE MEASUREMENTS FROM 2006. CITY WILL STAKE EASEMENT FOR CONTRACTOR TREE REMOVAL BIDDING (STA)



EX SAS #1461-001  
STA 10+00.43, LT-2.31'  
RIM = 1040.95  
EI (S) = 1025.00 (27")  
EI (W) = 1025.05 (27")  
EI (E) = 1026.07 (18")  
EI (N) = 1026.27 (8")

REMOVE PLUGGED 27" PVC PIPE AND  
CONNECT TO EX SAS #1461-001

27" - 416' PVC @ 0.18%

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0708-321-8520-7  
ROWLEY REV TR, WILLARD G  
ROWLEY REV TR, MONNA MILTON  
7475 VALLEY VIEW RD

CP #16  
N=472262.99  
E=771999.45  
ELEV=1041.42

INSTALL TEMPORARY  
DRIVEWAY w/ CULVERT  
MAINTAIN ACCESS  
AT ALL TIMES

CONSTRUCT 12' WIDE SAS ACCESS  
ROAD, IN ACCORDANCE TO S.D.D.  
5.1.4, FROM STA 18+32 TO 40+00

INSTALL CLEAR STONE  
BERM (S.D.D. 1.05 TYP.)

INSTALL CONSTRUCTION  
ENTRANCE

REMOVE AND REPLACE 20' X 24'  
OF 7" CONCRETE DRIVEWAY,  
SAWCUT FULL DEPTH

PI STA 18+32.00  
N=472314.28  
E=771729.75

\*REVISED 11/7/2014 MDM  
\*REVISED 12/12/2014 MDM

TEMPORARY 20' SANITARY  
EASEMENT DOC 4837821

0708-294-9060-6  
JOVANOVIC INVESTMENTS  
LIMITED PARTNERSHIP

INSTALL SILT  
FENCE (TYP.)

20' SANITARY EASEMENT  
DOC 4837821

0708-294-9000-8  
KELENY LAND COMPANY LLC  
7486 VALLEY VIEW RD

20' SANITARY EASEMENT  
DOC 4871236

TEMPORARY 20' SANITARY  
EASEMENT DOC 4871236

CLEAR AND GRUB TREES FROM STA 12+00 TO STA 18+25  
AS NEEDED TO INSTALL SANITARY SEWER.

INSTALL ORANGE CONSTRUCTION FENCING  
TO LIMIT ACCESS TO KELENY PROPERTY NO  
OPEN SPACE LEFT BETWEEN TREES NOT  
REMOVED (INCIDENTAL TO 27" SAN. SEWER  
MAIN)(TYP.)

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TRENCH PRIOR TO START OF CONSTRUCTION.

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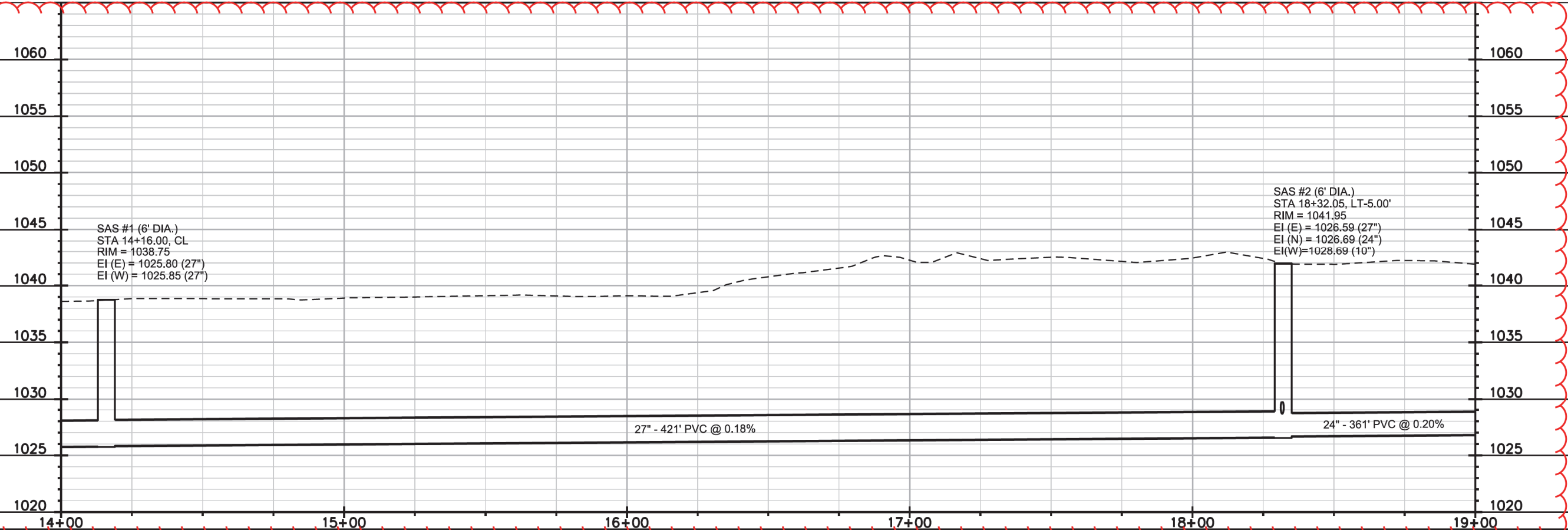
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MATCHLINE STA 14+00.00

MATCHLINE STA 19+00.00



SAS #1 (6' DIA.)  
STA 14+16.00, CL  
RIM = 1038.75  
EI (E) = 1025.80 (27")  
EI (W) = 1025.85 (27")

SAS #2 (6' DIA.)  
STA 18+32.05, LT-5.00'  
RIM = 1041.95  
EI (E) = 1026.59 (27")  
EI (N) = 1026.69 (24")  
EI (W) = 1028.69 (10")

27" - 421' PVC @ 0.18%

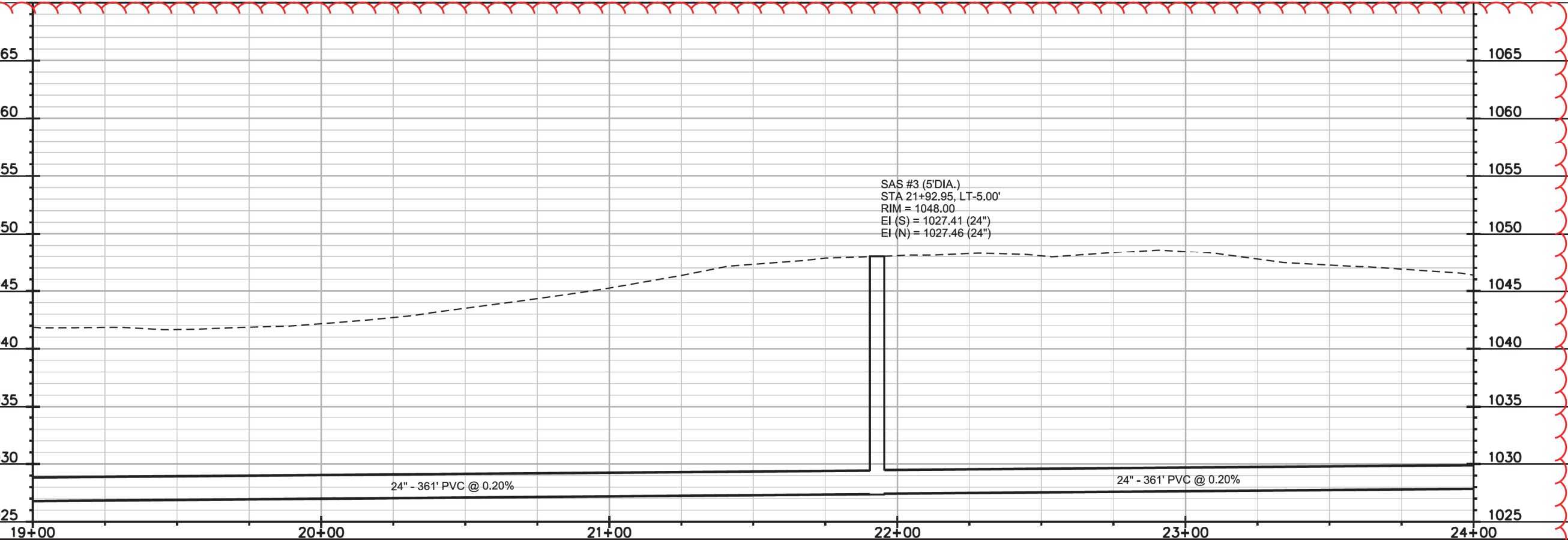
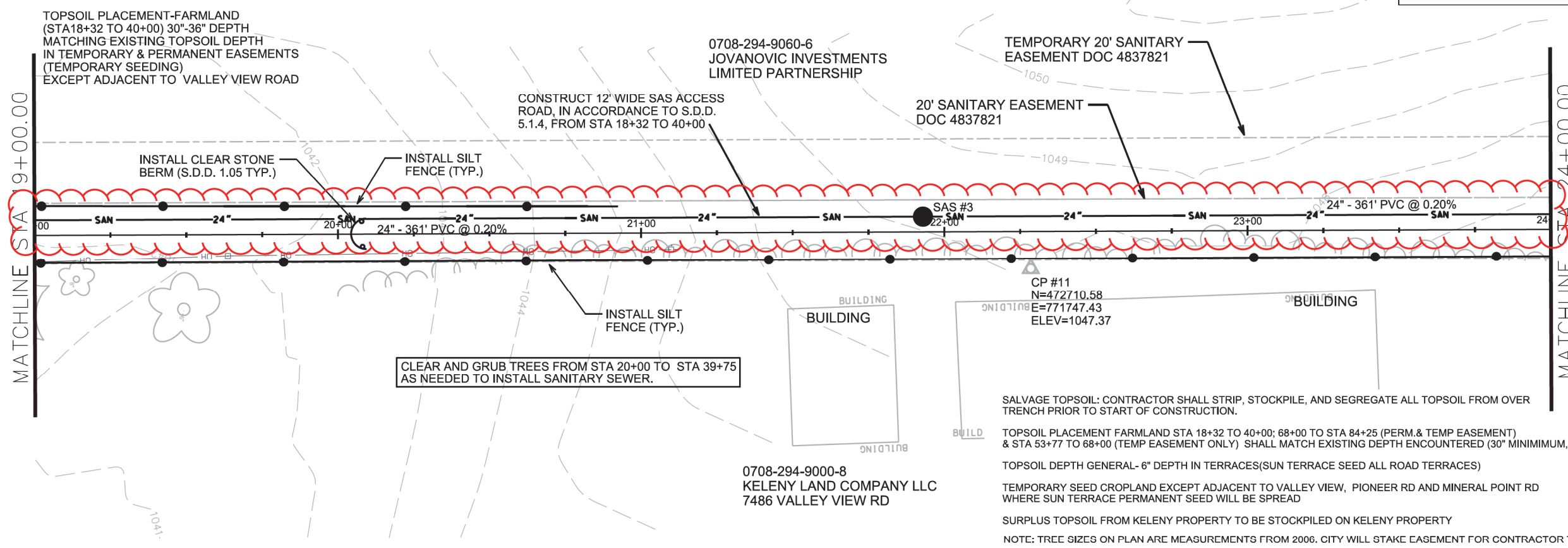
24" - 361' PVC @ 0.20%

PLOT SCALE:

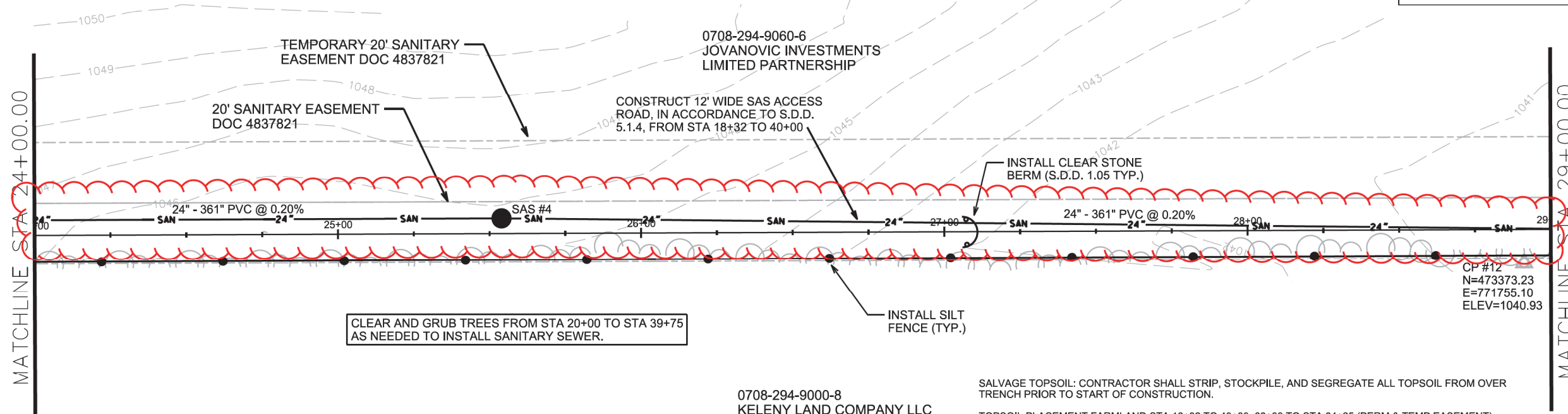
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REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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



CLEAR AND GRUB TREES FROM STA 20+00 TO STA 39+75 AS NEEDED TO INSTALL SANITARY SEWER.

0708-294-9000-8  
KELENY LAND COMPANY LLC  
7486 VALLEY VIEW RD

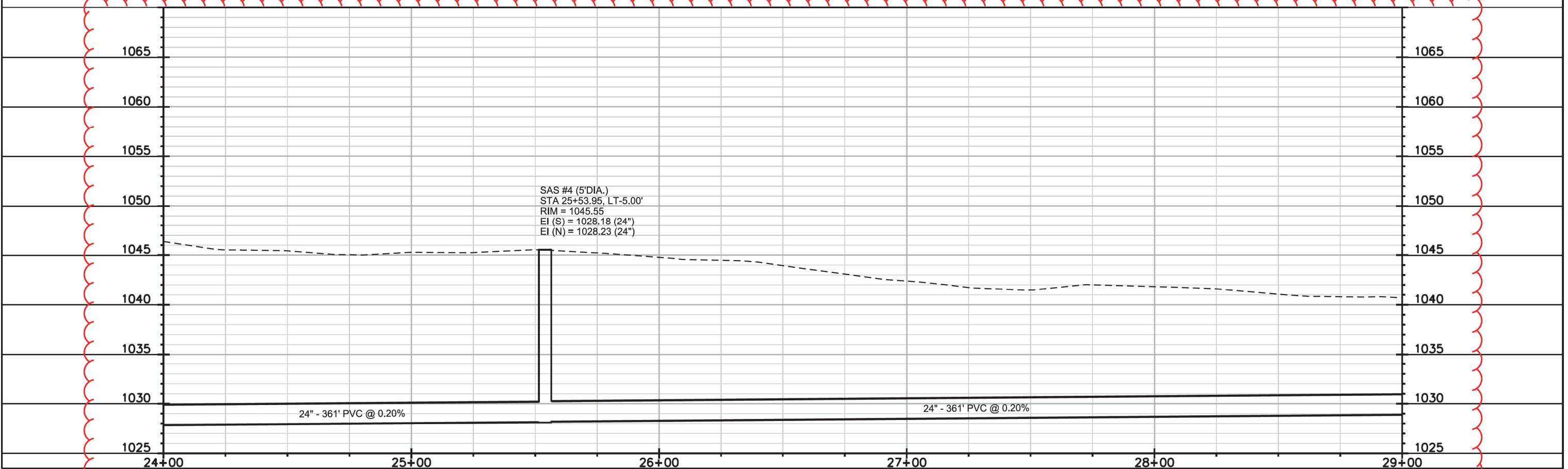
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PLOT SCALE:

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REV. DATE:

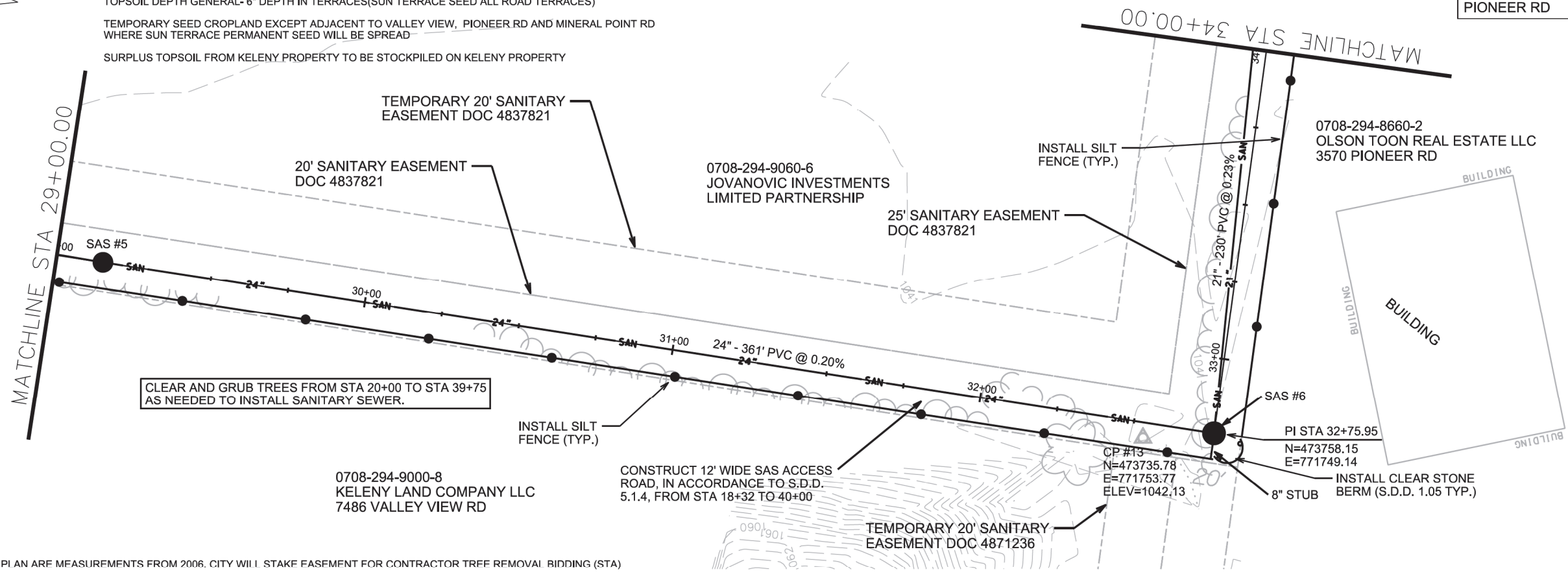
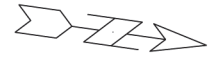
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SAS #4 (5'DIA.)  
STA 25+53.95, LT-5.00'  
RIM = 1045.55  
EI (S) = 1028.18 (24")  
EI (N) = 1028.23 (24")



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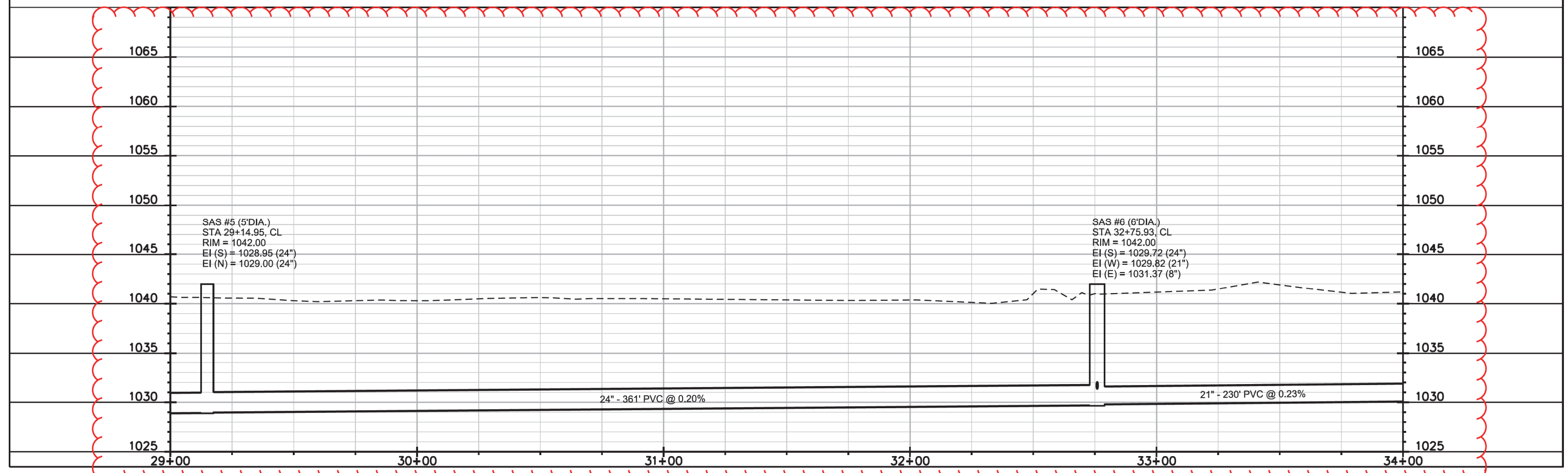
NOTE: TREE SIZES ON PLAN ARE MEASUREMENTS FROM 2006. CITY WILL STAKE EASEMENT FOR CONTRACTOR TREE REMOVAL BIDDING (STA)

PLOT SCALE:

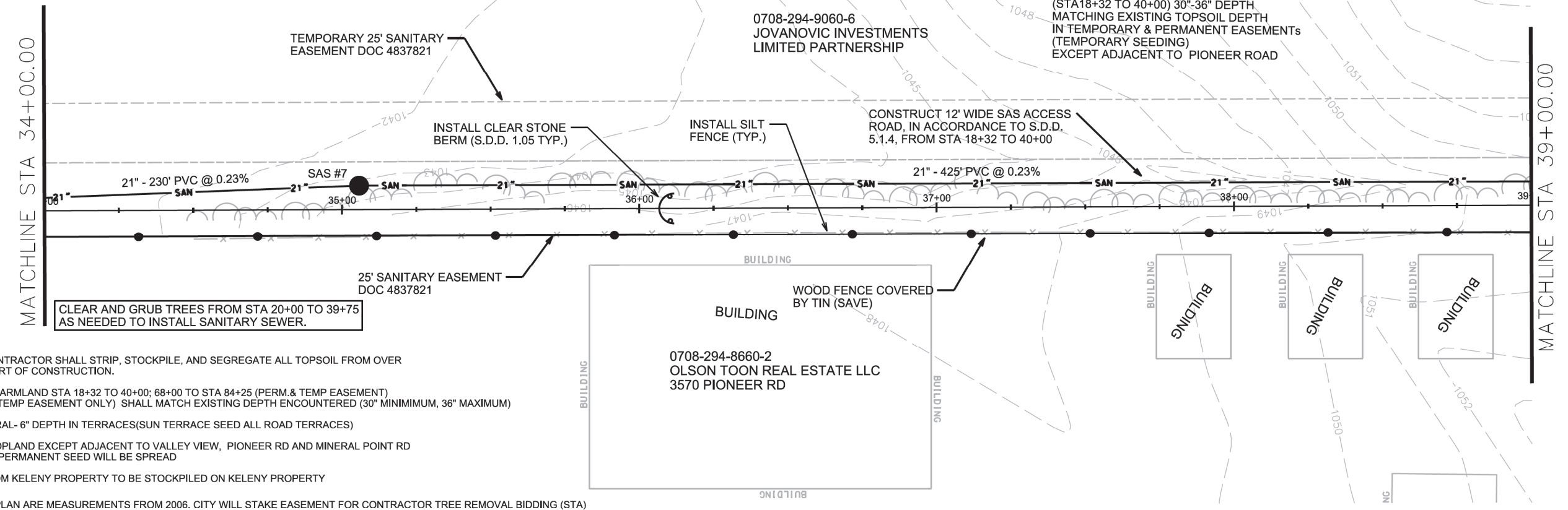
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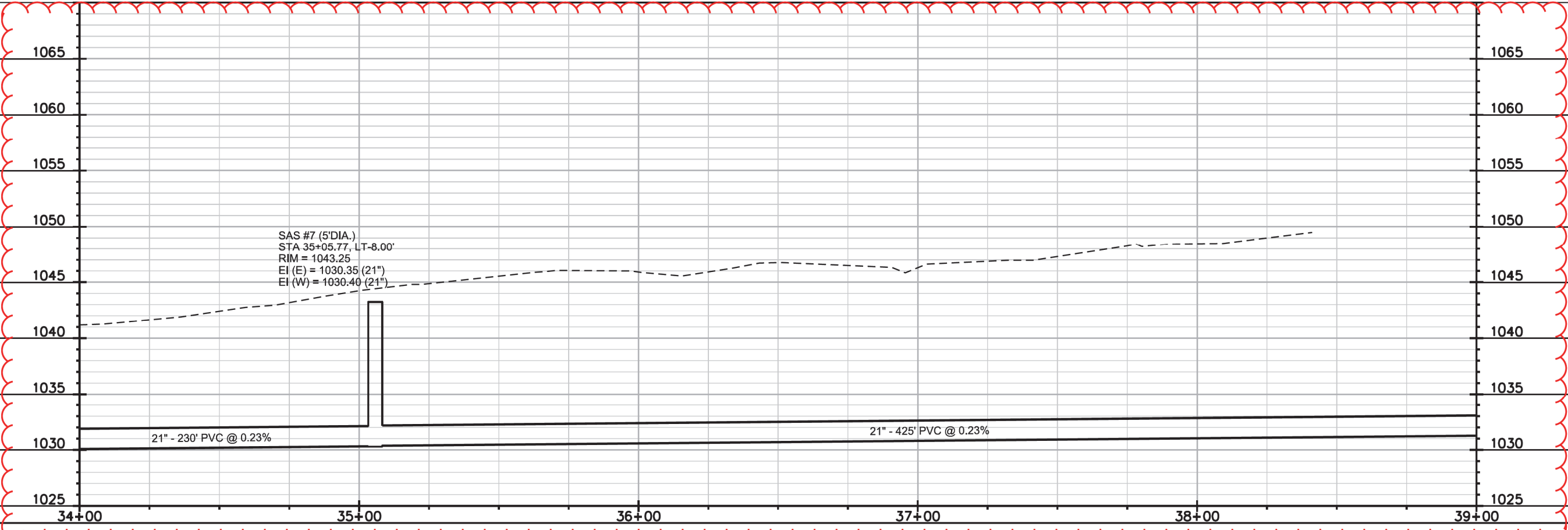


\*REVISED 11/7/2014 MDM  
\*REVISED 12/12/2014 MDM



CLEAR AND GRUB TREES FROM STA 20+00 TO 39+75 AS NEEDED TO INSTALL SANITARY SEWER.

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SAS #7 (5'DIA.)  
STA 35+05.77, LT-8.00'  
RIM = 1043.25  
EI (E) = 1030.35 (21")  
EI (W) = 1030.40 (21")

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

0708-293-0001-6  
ROWE REV TR, ROBERT F  
ROWE REV TR, YVONNE A  
7524 FALLEN OAK DR

0708-293-1001-0  
MARC R WATTS  
MARY NINEMEIER WATTS  
3577 PIONEER RD

0708-294-9060-6  
JOVANOVIC INVESTMENTS  
LIMITED PARTNERSHIP

0708-294-8660-2  
OLSON TOON REAL ESTATE LLC  
3570 PIONEER RD

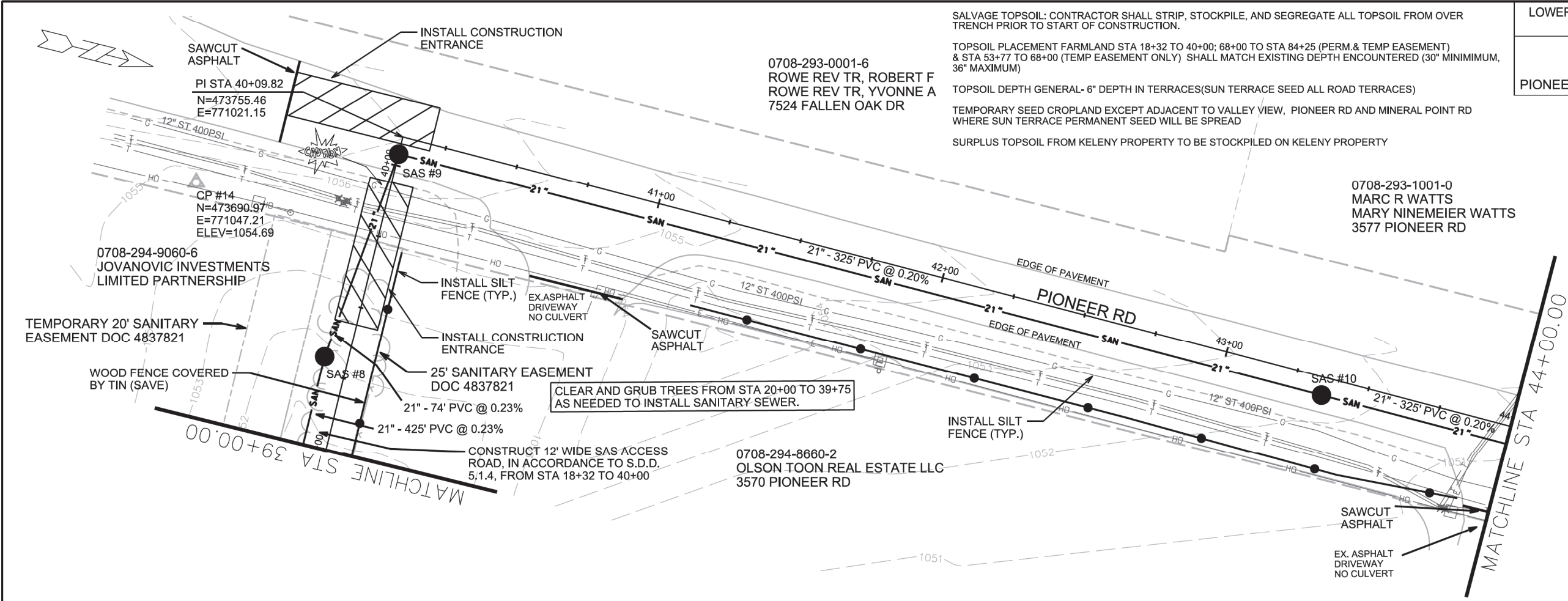
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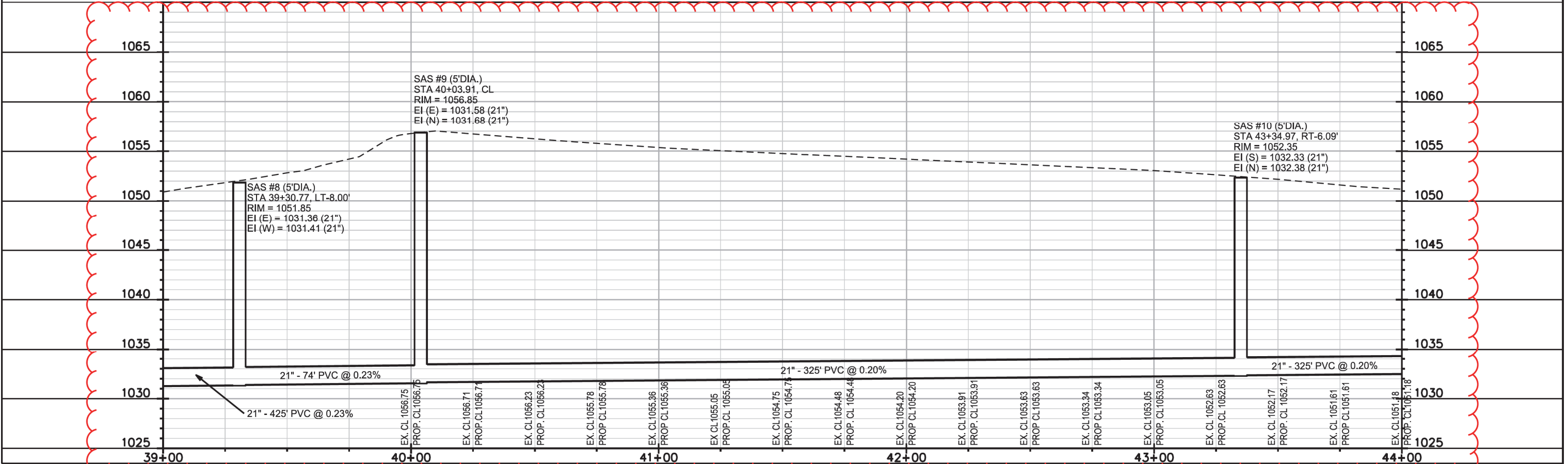
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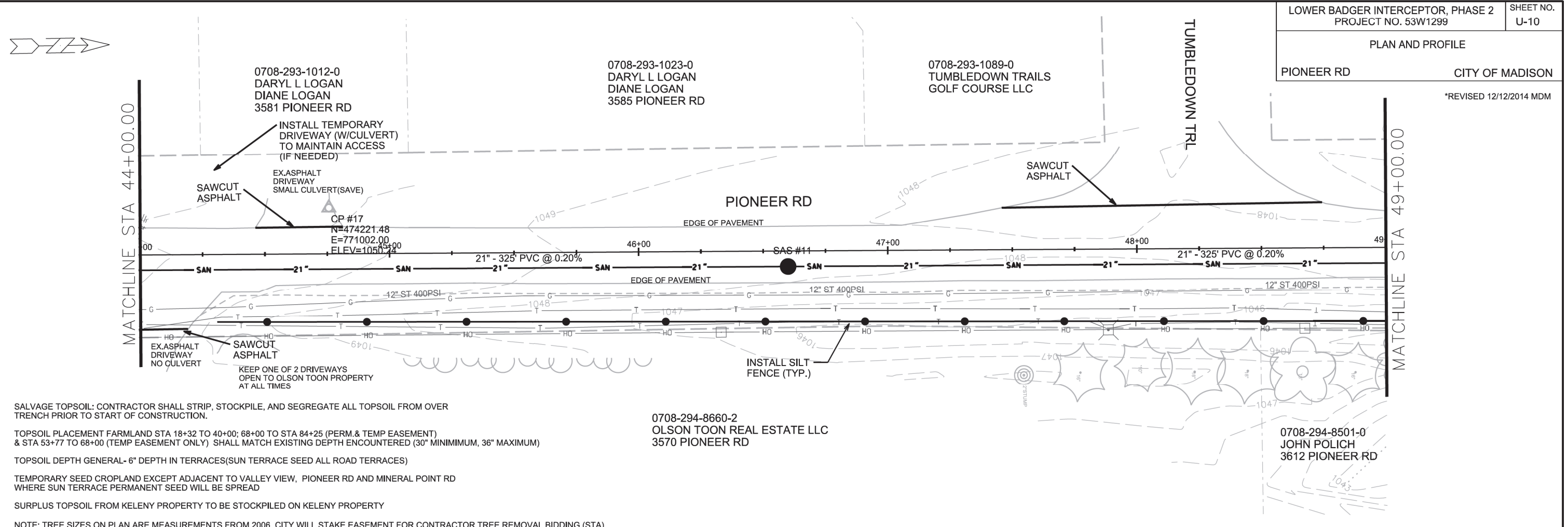
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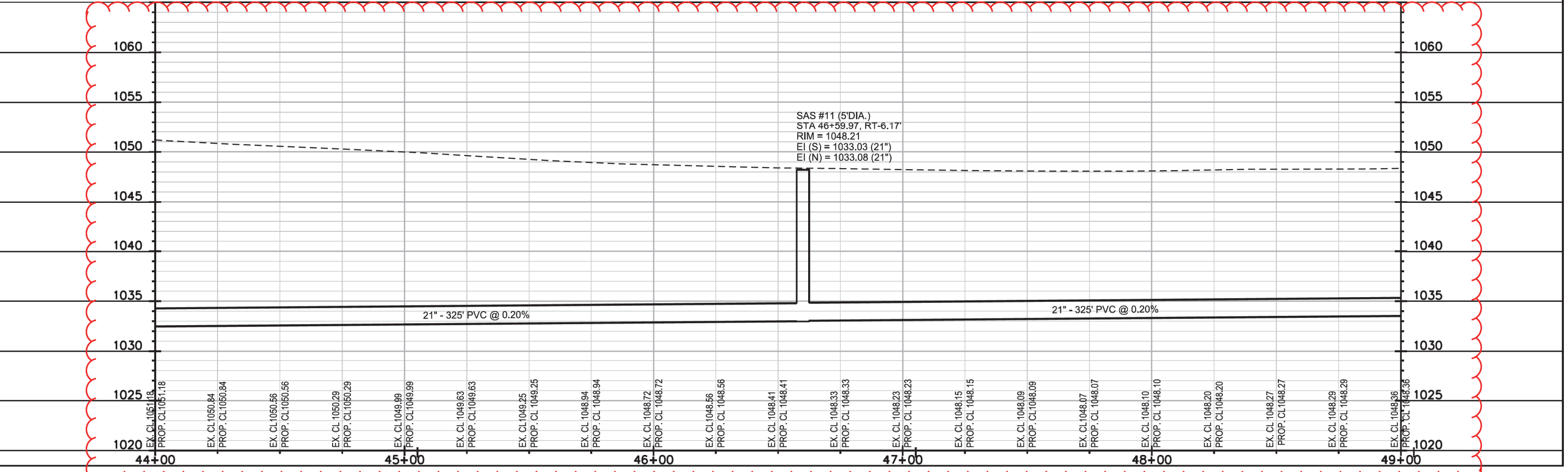
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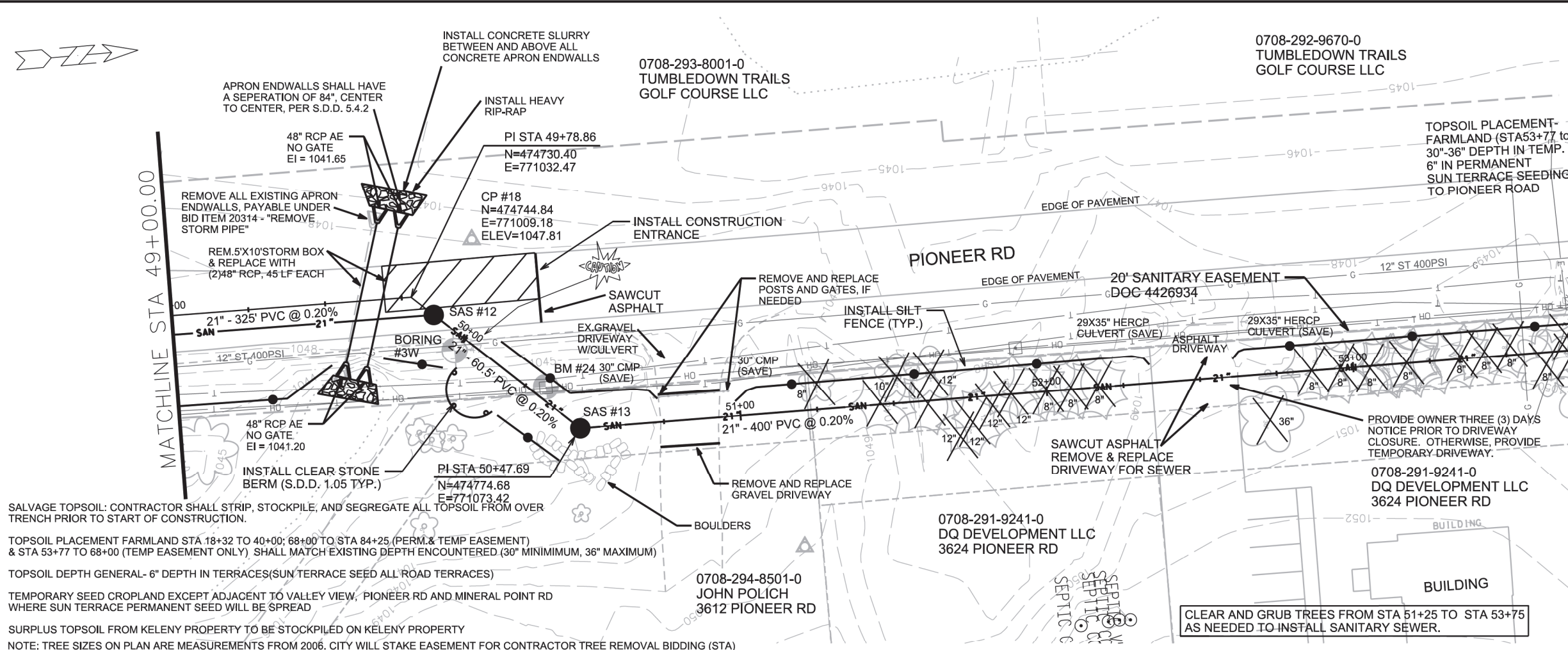
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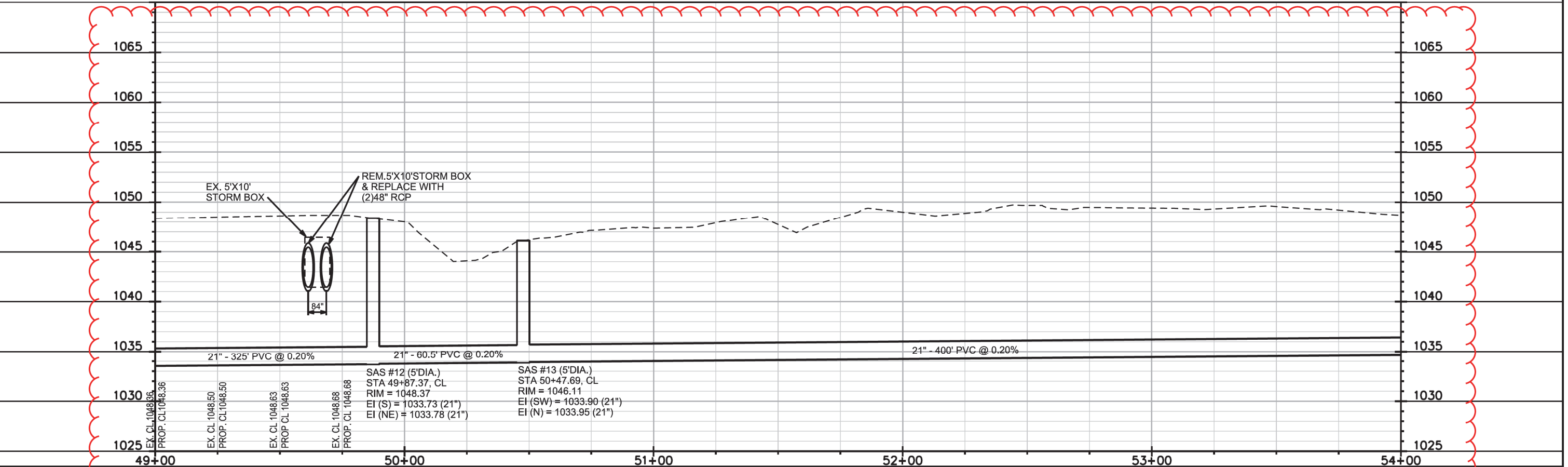
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TOPSOIL DEPTH GENERAL- 6\"/>

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

0708-292-9670-0  
 TUMBLEDOWN TRAILS  
 GOLF COURSE LLC

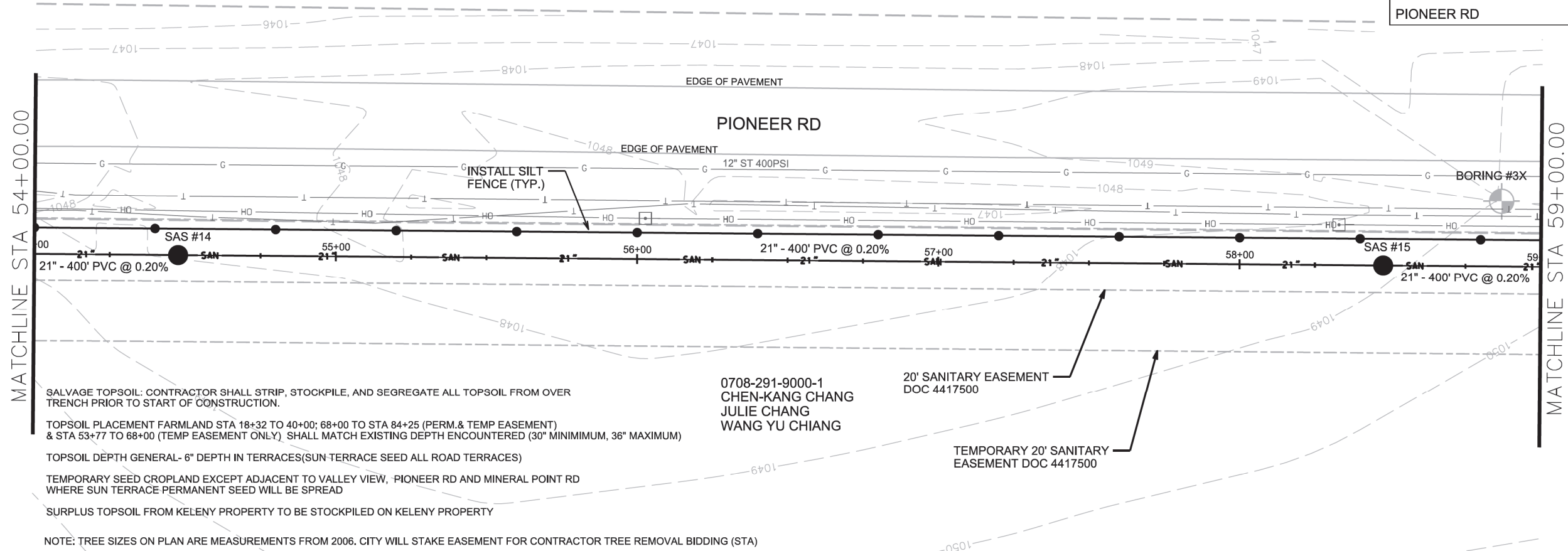
LOWER BADGER INTERCEPTOR, PHASE 2  
 PROJECT NO. 53W1299

PLAN AND PROFILE

PIONEER RD CITY OF MADISON

SHEET NO.  
 U-12

\*REVISED 12/12/2014 MDM



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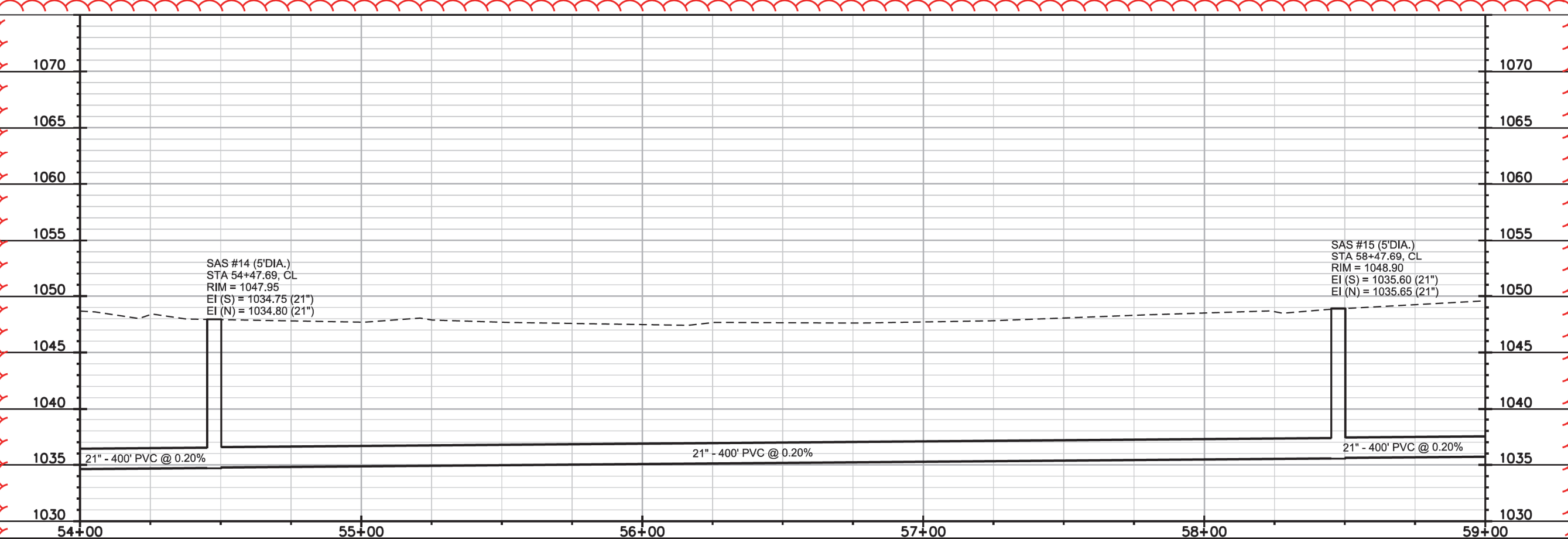
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0708-291-9000-1  
 CHEN-KANG CHANG  
 JULIE CHANG  
 WANG YU CHIANG

20' SANITARY EASEMENT  
 DOC 4417500

TEMPORARY 20' SANITARY  
 EASEMENT DOC 4417500

NOTE: TREE SIZES ON PLAN ARE MEASUREMENTS FROM 2006. CITY WILL STAKE EASEMENT FOR CONTRACTOR TREE REMOVAL BIDDING (STA)



SAS #14 (5'DIA.)  
 STA 54+47.69, CL  
 RIM = 1047.95  
 EI (S) = 1034.75 (21\"/>

SAS #15 (5'DIA.)  
 STA 58+47.69, CL  
 RIM = 1048.90  
 EI (S) = 1035.60 (21\"/>

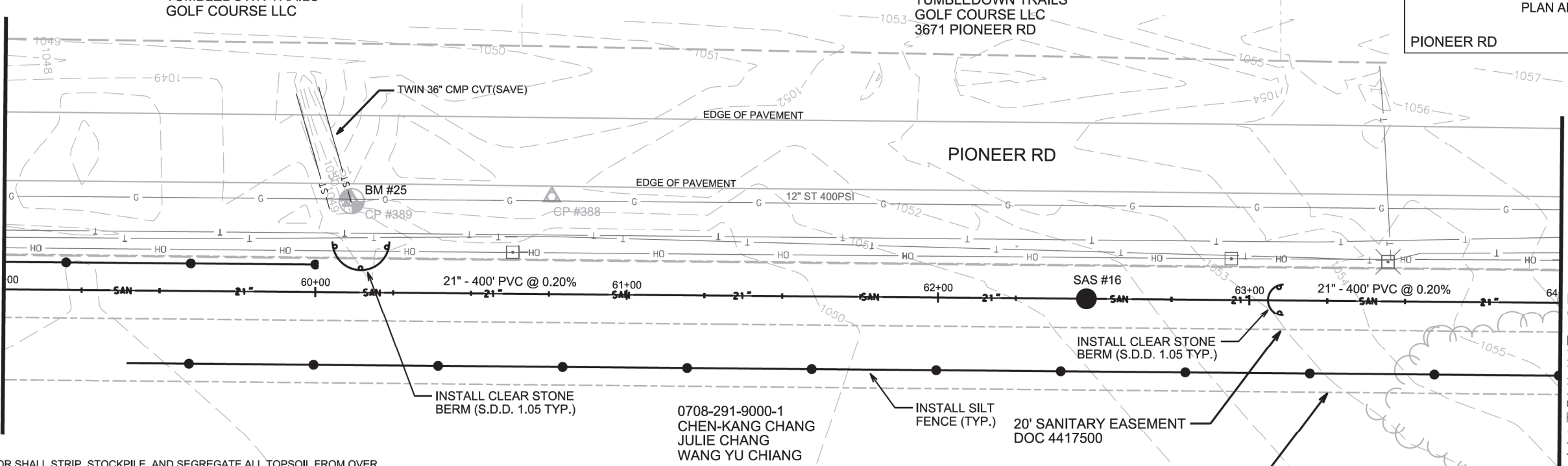
PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0708-292-9670-0  
TUMBLEDOWN TRAILS  
GOLF COURSE LLC

0708-292-9630-8  
TUMBLEDOWN TRAILS  
GOLF COURSE LLC  
3671 PIONEER RD

MATCHLINE STA 59+00.00

MATCHLINE STA 64+00.00



SALVAGE TOPSOIL: CONTRACTOR SHALL STRIP, STOCKPILE, AND SEGREGATE ALL TOPSOIL FROM OVER TRENCH PRIOR TO START OF CONSTRUCTION.

TOPSOIL PLACEMENT FARMLAND STA 18+32 TO 40+00; 68+00 TO STA 84+25 (PERM. & TEMP EASEMENT) & STA 53+77 TO 68+00 (TEMP EASEMENT ONLY) SHALL MATCH EXISTING DEPTH ENCOUNTERED (30" MINIMUM, 36" MAXIMUM)

TOPSOIL DEPTH GENERAL- 6" DEPTH IN TERRACES(SUN TERRACE SEED ALL ROAD TERRACES)

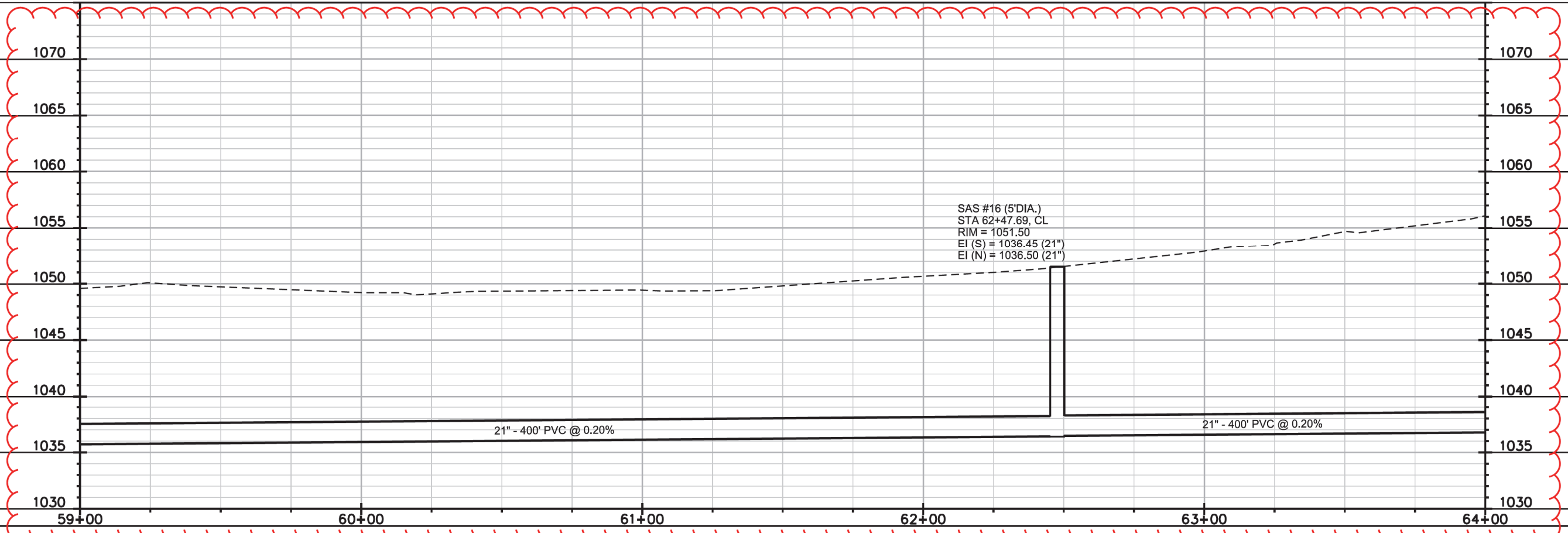
TEMPORARY SEED CROPLAND EXCEPT ADJACENT TO VALLEY VIEW, PIONEER RD AND MINERAL POINT RD WHERE SUN TERRACE PERMANENT-SEED WILL BE SPREAD

SURPLUS TOPSOIL FROM KELENY PROPERTY TO BE STOCKPILED ON KELENY PROPERTY

NOTE: TREE SIZES ON PLAN ARE MEASUREMENTS FROM 2006. CITY WILL STAKE EASEMENT FOR CONTRACTOR TREE REMOVAL BIDDING (STA)

0708-291-9000-1  
CHEN-KANG CHANG  
JULIE CHANG  
WANG YU CHIANG

CLEAR AND GRUB TREES FROM STA 63+25 TO STA 65+25 AS NEEDED TO INSTALL SANITARY SEWER.



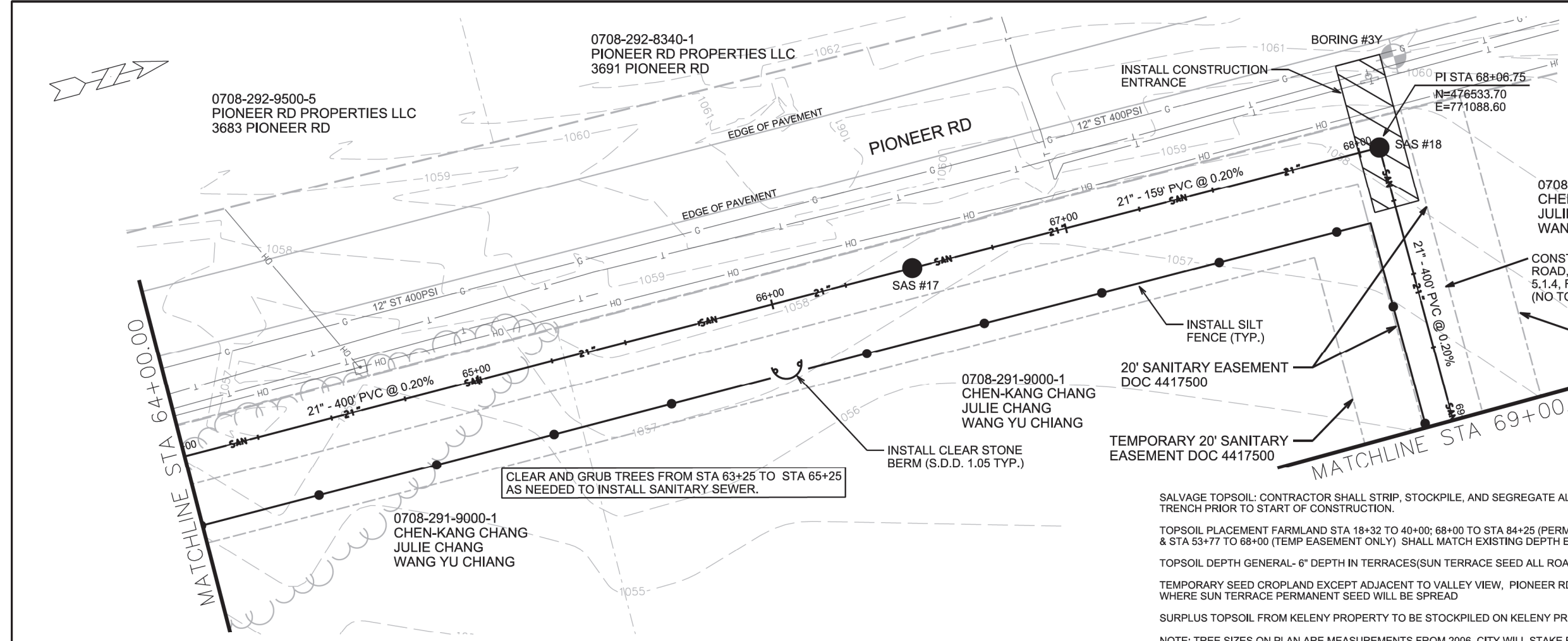
SAS #16 (5'DIA.)  
STA 62+47.69, CL  
RIM = 1051.50  
EI (S) = 1036.45 (21")  
EI (N) = 1036.50 (21")

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SALVAGE TOPSOIL: CONTRACTOR SHALL STRIP, STOCKPILE, AND SEGREGATE ALL TOPSOIL FROM OVER TRENCH PRIOR TO START OF CONSTRUCTION.

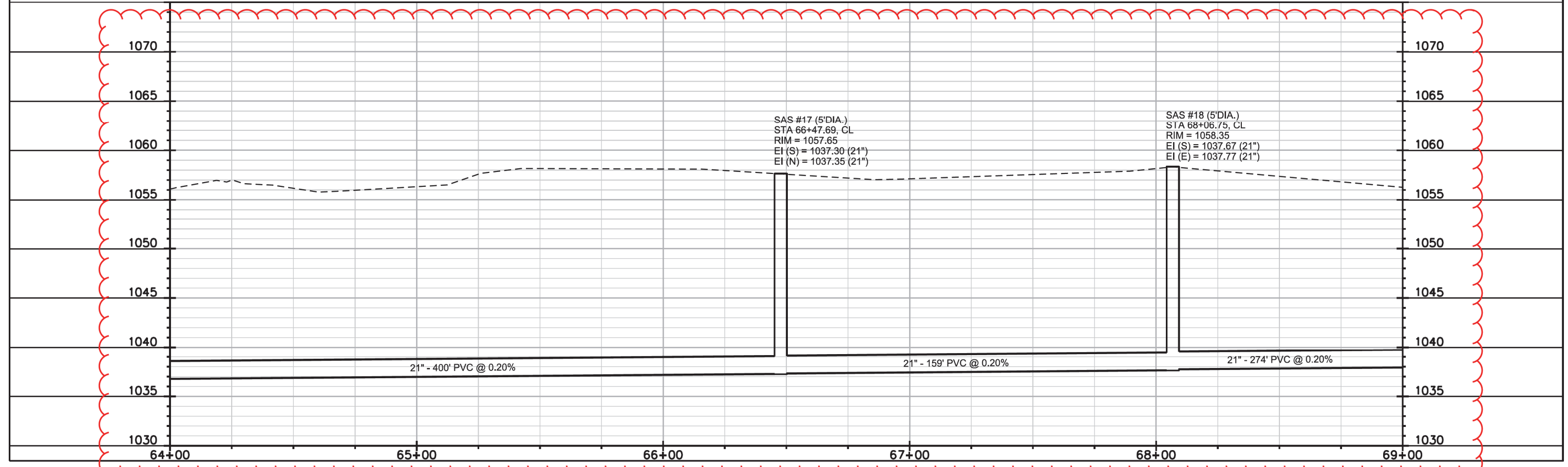
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SURPLUS TOPSOIL FROM KELENY PROPERTY TO BE STOCKPILED ON KELENY PROPERTY

NOTE: TREE SIZES ON PLAN ARE MEASUREMENTS FROM 2006. CITY WILL STAKE EASEMENT FOR CONTRACTOR TREE REMOVAL BIDDING (STA)



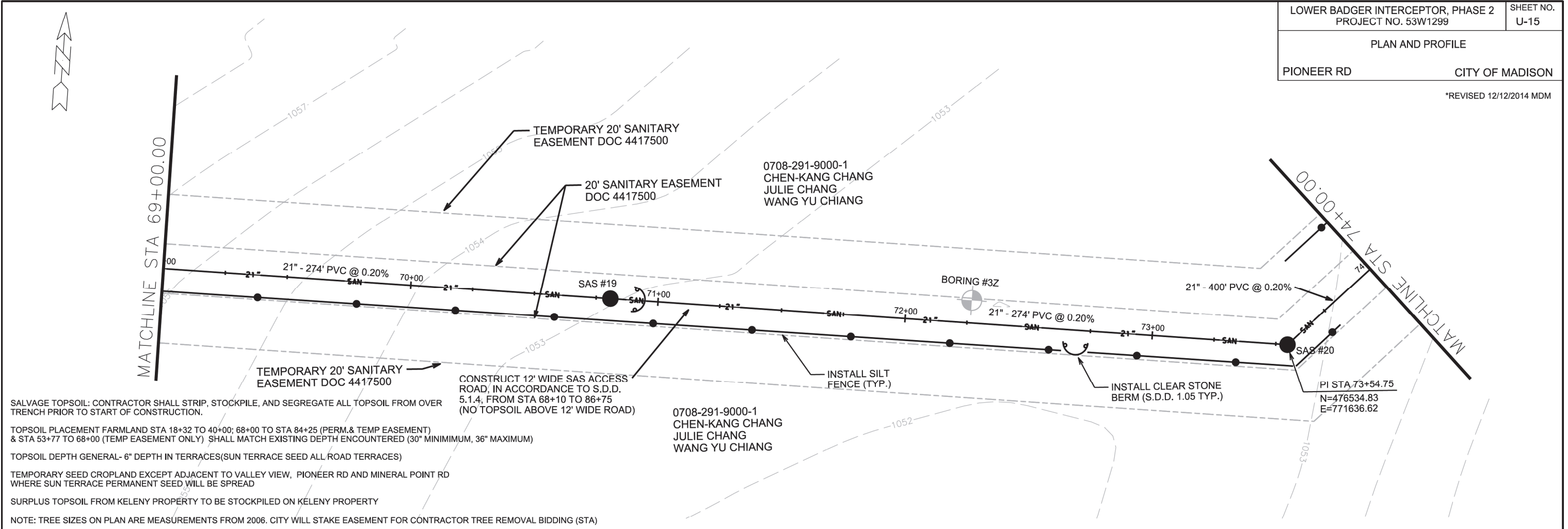
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





SALVAGE TOPSOIL: CONTRACTOR SHALL STRIP, STOCKPILE, AND SEGREGATE ALL TOPSOIL FROM OVER TRENCH PRIOR TO START OF CONSTRUCTION.

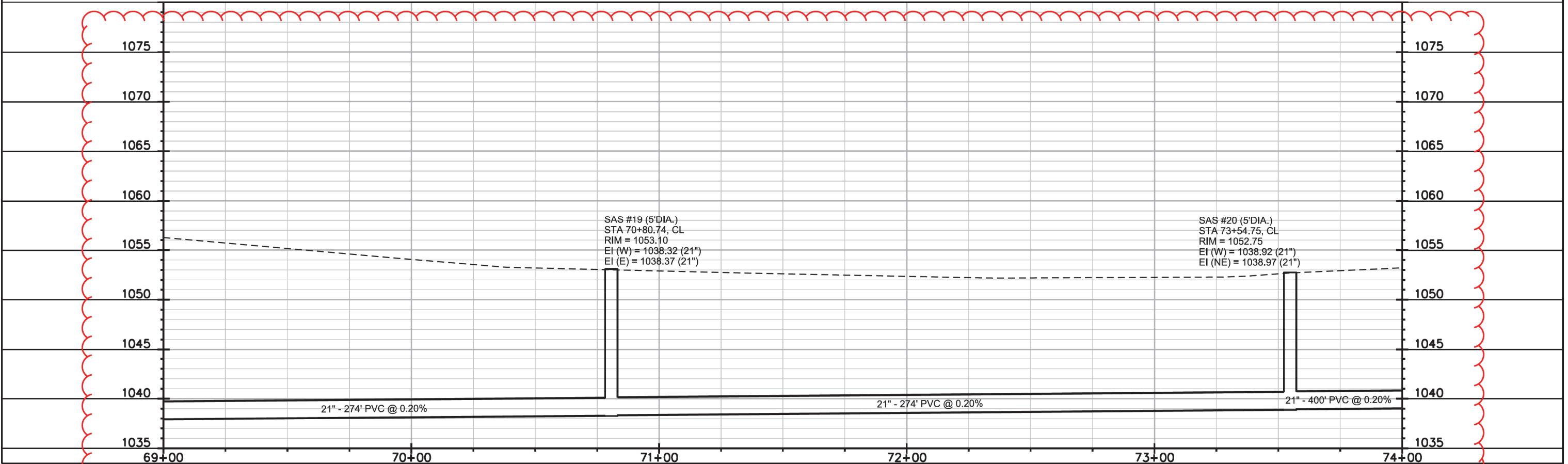
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NOTE: TREE SIZES ON PLAN ARE MEASUREMENTS FROM 2006. CITY WILL STAKE EASEMENT FOR CONTRACTOR TREE REMOVAL BIDDING (STA)

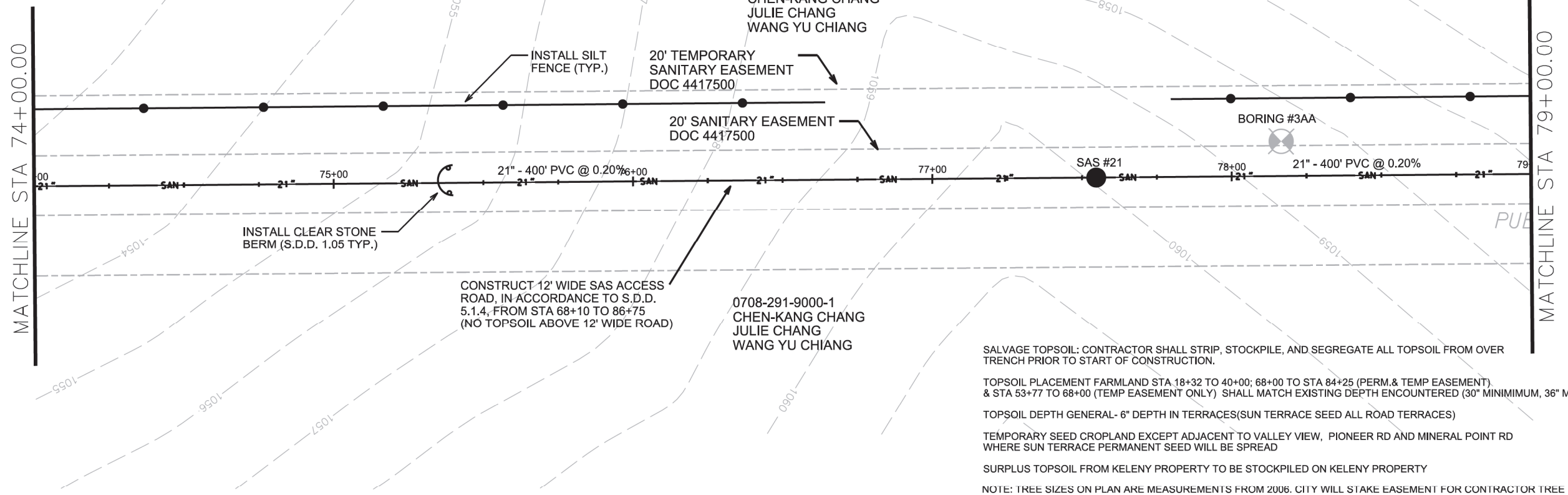
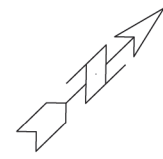


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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SURPLUS TOPSOIL FROM KELENY PROPERTY TO BE STOCKPILED ON KELENY PROPERTY

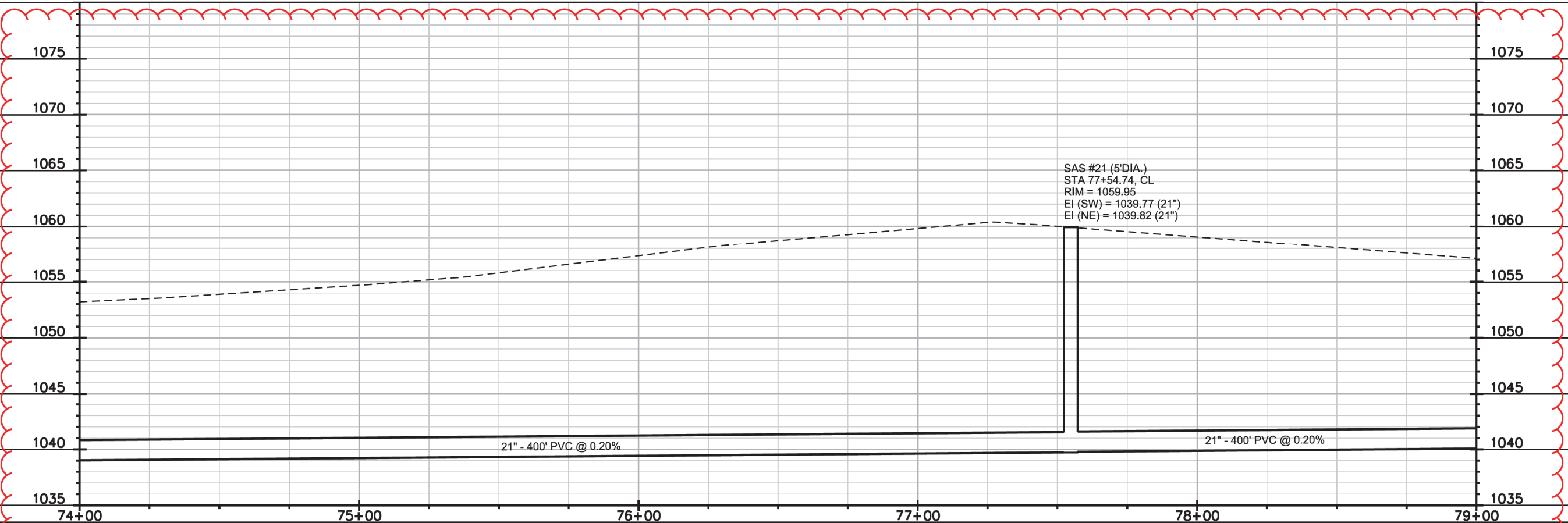
NOTE: TREE SIZES ON PLAN ARE MEASUREMENTS FROM 2006. CITY WILL STAKE EASEMENT FOR CONTRACTOR TREE REMOVAL BIDDING (STA)

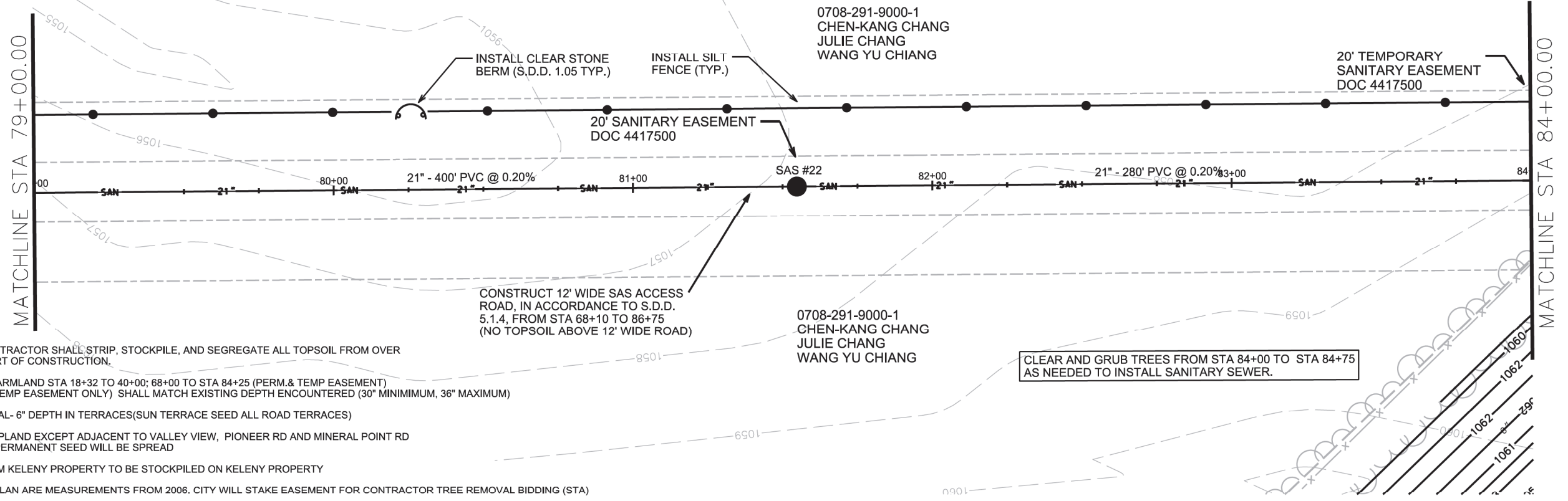
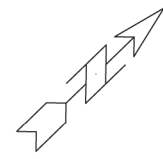
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





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NOTE: TREE SIZES ON PLAN ARE MEASUREMENTS FROM 2006. CITY WILL STAKE EASEMENT FOR CONTRACTOR TREE REMOVAL BIDDING (STA)

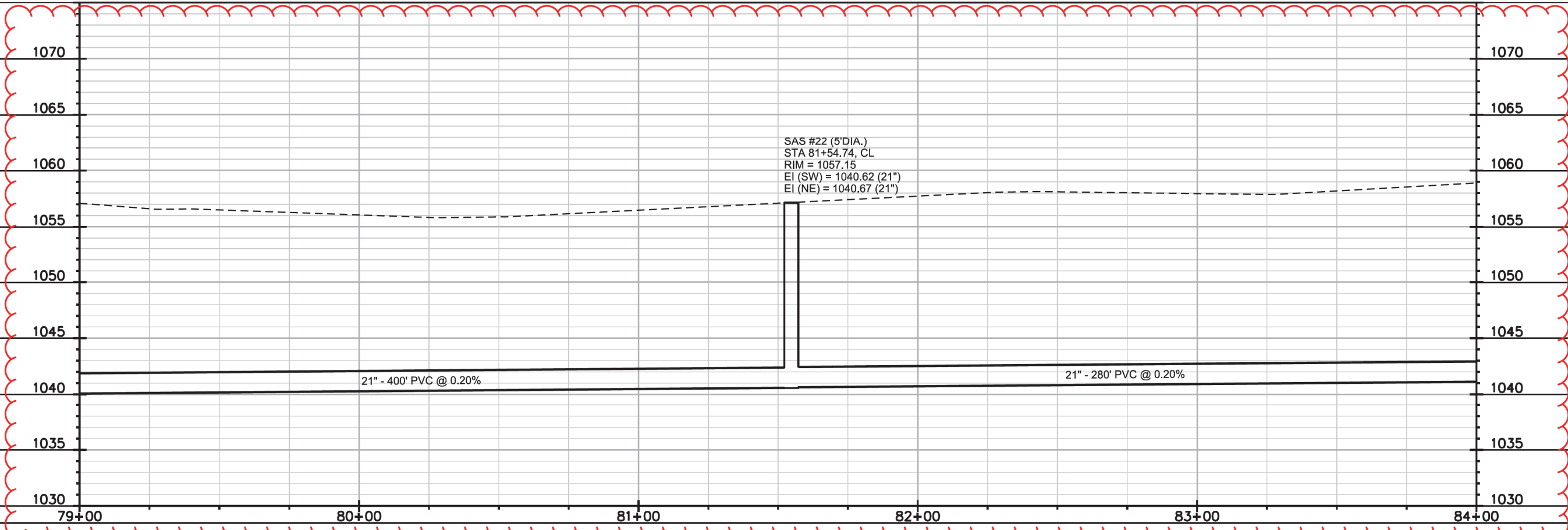
CLEAR AND GRUB TREES FROM STA 84+00 TO STA 84+75 AS NEEDED TO INSTALL SANITARY SEWER.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



\*REVISED 11/7/2014 MDM  
\*REVISED 12/12/2014 MDM

CLEAR AND GRUB TREES FROM STA 84+00 TO STA 84+75 AS NEEDED TO INSTALL SANITARY SEWER.

TOPSOIL PLACEMENT-FARMLAND (STA 68+00 TO 84+25) 30"-36" DEPTH MATCHING EXISTING IN TEMPORARY & PERMANENT EASEMENT 6" OVER CONSTRUCTION ACCESS ROAD PERMANENT (TEMPORARY SEEDING) EXCEPT ADJACENT TO PIONEER ROAD

TOPSOIL PLACEMENT (6") SUN TERRACE SEEDING STA 84+25 TO NORTH PROJECT LIMIT

0708-291-8500-8  
CHEN-KANG CHANG  
JULIE CHANG  
WANG YU CHIANG

0708-291-0099-3  
MREC VH BIRCHWOOD POINT LLC  
10203 MINERAL POINT RD

0708-204-9600-0  
HERRLING FAMILY  
LIMITED PARTNERSHIP

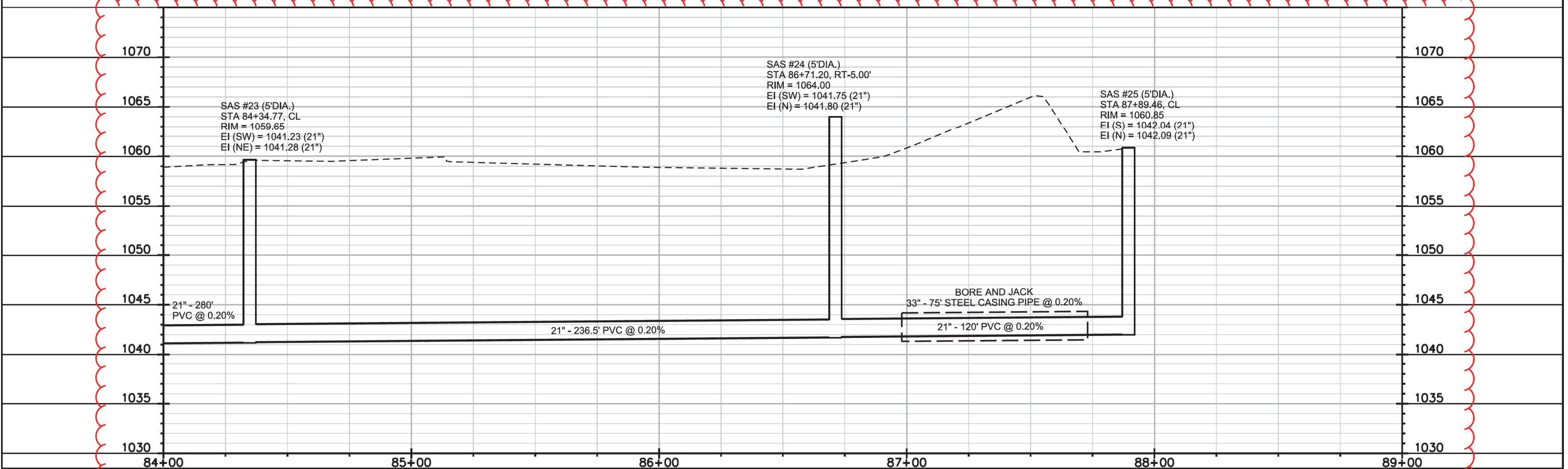
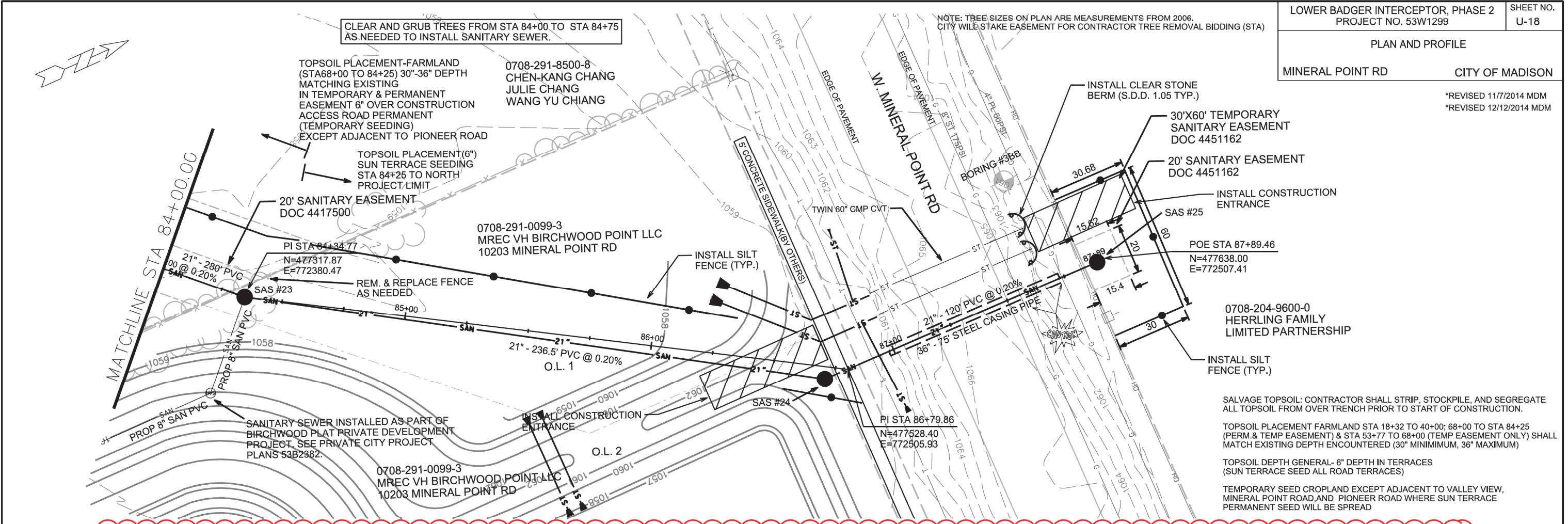
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PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# SANITARY SEWER SCHEDULE

\*\*REVISED 11/7/2014 MDM

+REVISED 12/12/2014 MDM

LOWER BADGER INTERCEPTOR, PHASE 2  
PROJECT NO. 53W1299

SHEET NO.  
U-19

SANITARY SEWER SCHEDULE

CITY OF MADISON

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>PIONEER ROAD</b>						
+ SAS #1	14+16.00	CL	1038.75	1025.80	12.95	(1), 6' DIA SAS
+ SAS #2	18+32.05	LT-5.00	1041.95	1026.59	15.36	(1), 6' DIA SAS
+ SAS #3	21+92.95	LT-5.00	1048.00	1027.41	20.59	(1), 5' DIA SAS
+ SAS #4	25+53.95	LT-5.00	1045.55	1028.18	17.37	(1), 5' DIA SAS
+ SAS #5	29+14.95	CL	1042.00	1028.95	13.05	(1), 5' DIA SAS
+ SAS #6	32+75.93	CL	1042.00	1029.72	12.28	(1), 6' DIA SAS
+ SAS #7	35+05.77	LT-8.00	1043.25	1030.35	12.90	(1), 5' DIA SAS
+ SAS #8	39+30.77	LT-8.00	1051.85	1031.36	20.49	(1), 5' DIA SAS
+ SAS #9	40+03.91	CL	1056.85	1031.58	25.27	5' DIA SAS
+ SAS #10	43+34.97	RT-6.09	1052.35	1032.33	20.02	5' DIA SAS
+ SAS #11	46+59.97	RT-6.17	1048.21	1033.03	15.18	5' DIA SAS
+ SAS #12	49+87.37	CL	1048.37	1033.73	14.64	5' DIA SAS
+ SAS #13	50+47.69	CL	1046.11	1033.90	12.21	(1), 5' DIA SAS
+ SAS #14	54+47.69	CL	1047.95	1034.75	13.20	(1), 5' DIA SAS
+ SAS #15	58+47.69	CL	1048.90	1035.60	13.30	(1), 5' DIA SAS
+ SAS #16	62+47.69	CL	1051.50	1036.45	15.05	(1), 5' DIA SAS
+ SAS #17	66+47.69	CL	1057.65	1037.30	20.35	(1), 5' DIA SAS
+ SAS #18	68+06.75	CL	1058.35	1037.67	20.68	(1), 5' DIA SAS
+ SAS #19	70+80.74	CL	1053.10	1038.32	14.78	(1), 5' DIA SAS
+ SAS #20	73+54.75	CL	1052.75	1038.92	13.83	(1), 5' DIA SAS
+ SAS #21	77+54.74	CL	1059.95	1039.77	20.18	(1), 5' DIA SAS
+ SAS #22	81+54.74	CL	1057.15	1040.62	16.53	(1), 5' DIA SAS
+ SAS #23	84+34.77	CL	1059.65	1041.23	18.42	(1), 5' DIA SAS
+ SAS #24	86+71.20	RT-5.00	1064.00	1041.75	22.25	(1), 5' DIA SAS
+ SAS #25	87+89.46	CL	1060.85	1042.04	18.81	(1), 5' DIA SAS

## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>PIONEER ROAD</b>								
+ EX SAS #1461-001	SAS #1	1025.05	1025.80	416	0.18%	27"	ASTM F679, PS115	
+ SAS #1	SAS #2	1025.85	1026.59	421	0.18%	27"	ASTM F679, PS115	
+ SAS #2	SAS #3	1026.69	1027.41	361	0.20%	24"	ASTM F679, PS115	
+ SAS #3	SAS #4	1027.46	1028.18	361	0.20%	24"	ASTM F679, PS115	
+ SAS #4	SAS #5	1028.23	1028.95	361	0.20%	24"	ASTM F679, PS115	
+ SAS #5	SAS #6	1029.00	1029.72	361	0.20%	24"	ASTM F679, PS115	
+ SAS #6	SAS #7	1029.82	1030.35	230	0.23%	21"	ASTM F679, PS115	
+ SAS #7	SAS #8	1030.40	1031.36	425	0.23%	21"	ASTM F679, PS115	
+ SAS #8	SAS #9	1031.41	1031.58	74	0.23%	21"	ASTM F679, PS115	
+ SAS #9	SAS #10	1031.68	1032.33	325	0.20%	21"	ASTM F679, PS115	
+ SAS #10	SAS #11	1032.38	1033.03	325	0.20%	21"	ASTM F679, PS115	
+ SAS #11	SAS #12	1033.08	1033.73	325	0.20%	21"	ASTM F679, PS115	
+ SAS #12	SAS #13	1033.78	1033.90	60.5	0.20%	21"	ASTM F679, PS115	
+ SAS #13	SAS #14	1033.95	1034.75	400	0.20%	21"	ASTM F679, PS115	
+ SAS #14	SAS #15	1034.80	1035.60	400	0.20%	21"	ASTM F679, PS115	
+ SAS #15	SAS #16	1035.65	1036.45	400	0.20%	21"	ASTM F679, PS115	
+ SAS #16	SAS #17	1036.50	1037.30	400	0.20%	21"	ASTM F679, PS115	
+ SAS #17	SAS #18	1037.35	1037.67	159	0.20%	21"	ASTM F679, PS115	
+ SAS #18	SAS #19	1037.77	1038.32	274	0.20%	21"	ASTM F679, PS115	
+ SAS #19	SAS #20	1038.37	1038.92	274	0.20%	21"	ASTM F679, PS115	
+ SAS #20	SAS #21	1038.97	1039.77	400	0.20%	21"	ASTM F679, PS115	
+ SAS #21	SAS #22	1039.82	1040.62	400	0.20%	21"	ASTM F679, PS115	
+ SAS #22	SAS #23	1040.67	1041.23	280	0.20%	21"	ASTM F679, PS115	
+ SAS #23	SAS #24	1041.28	1041.75	236.5	0.20%	21"	ASTM F679, PS115	
+ SAS #24	SAS #25	1041.80	1042.04	120	0.20%	21"	ASTM F679, PS115	

## SPECIFIC NOTES

(1) CASTING SHALL BE R-1916-C W/ FOUR (4) STAINLESS STEEL HEX BOLT

PAVEMENT MARKING PLAN  
CITY OF MADISON

FALLEN OAK DR

↑ N PIONEER RD

Project Limits

Install 4" Yellow

11'

11'

45'

Install 4" Yellow 12' x 38' Skips

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

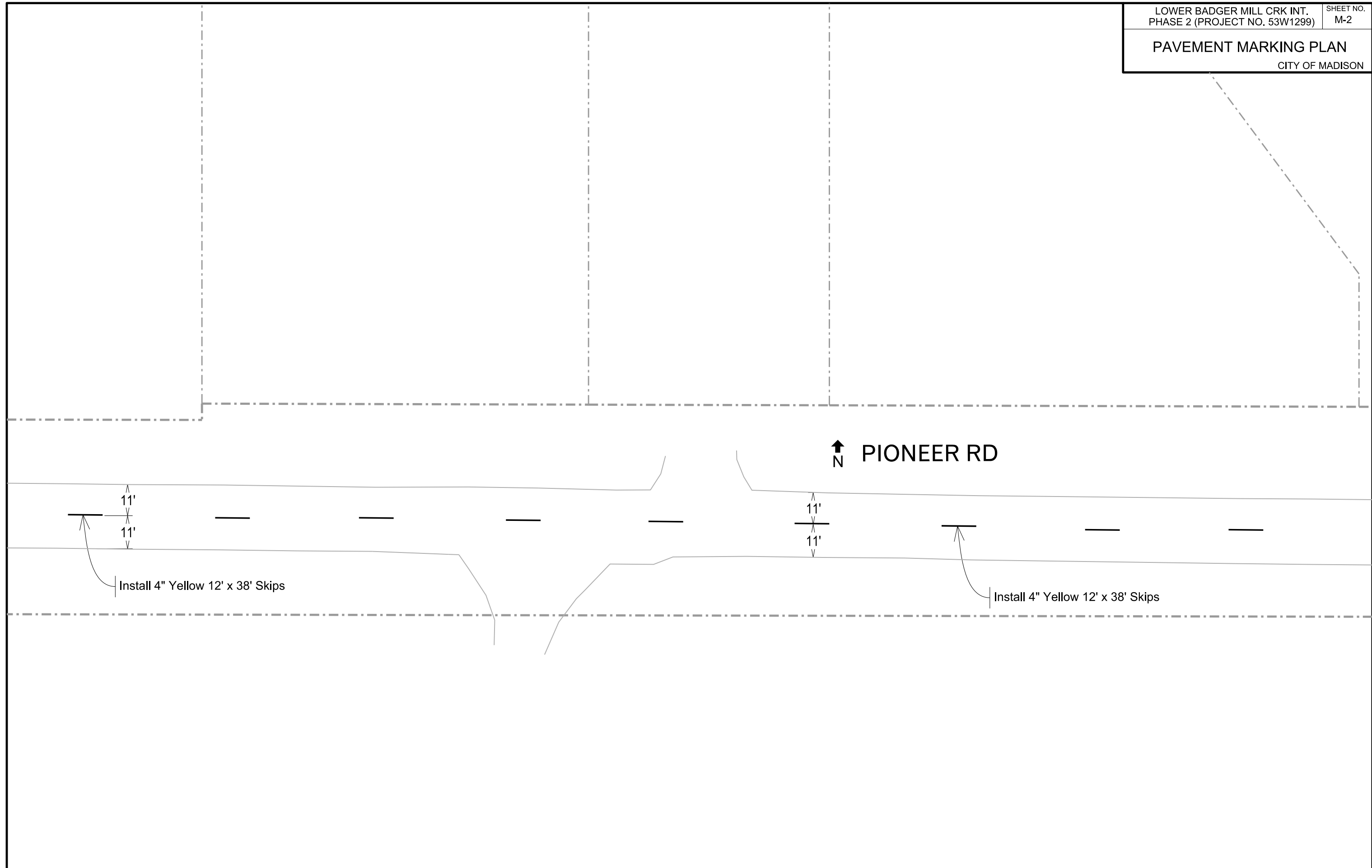
PAVEMENT MARKING PLAN  
CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



PAVEMENT MARKING PLAN  
CITY OF MADISON

TUMBLEDOWN TRL

↑  
N PIONEER RD

Project Limits

Install 4" Yellow 12' x 38' Skips

11'  
11'

11'  
11'

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.