



MADISON, WISCONSIN

# CITY OF MADISON

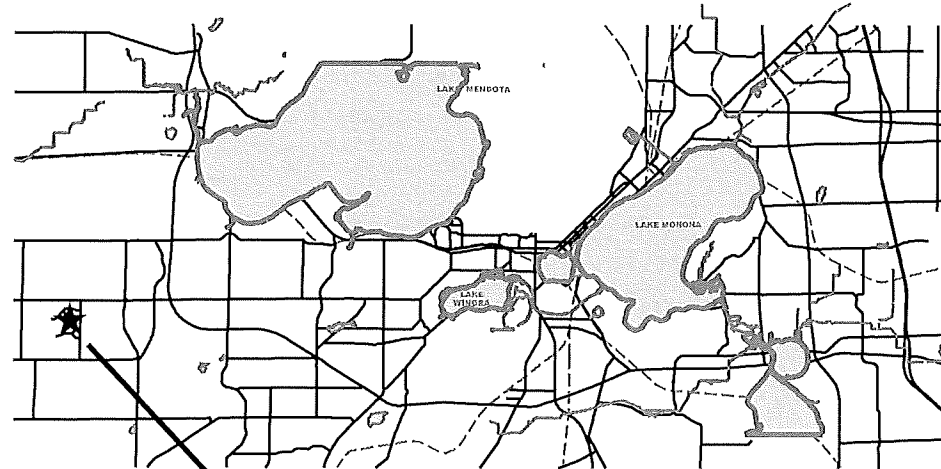
## ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

### PLAN OF PROPOSED IMPROVEMENT

### SOUTH POINT RD TRUCK SCALE AND FUEL POINT

PROJECT NO. 12444  
CONTRACT NO. 8606



STREETS DIVISION - FAR WEST  
402 SOUTH POINT RD

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- GS-2 FENCE & GATE DETAILS

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- EC-1 EROSION CONTROL PLAN
- G-1 SITE GRADING PLAN
- P-1 YARD DR. AND PUBLIC WORKS DRIVEWAY PLAN & PROFILE
- P-2 EXISTING DRIVEWAY PLAN AND PROFILE
- U-1 UTILITY PLAN & PROFILE
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- 4 SCALE ELECTRICAL SCHEMATIC

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**PUBLIC WORKS IMPROVEMENT PROJECT**

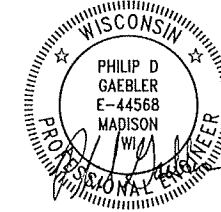
APPROVED BY THE COMMON COUNCIL  
OF MADISON WISCONSIN

RESOLUTION: RES-21-00598

FILE ID: 65674

DATE: AUGUST 31, 2021

**STORM SEWER AND STORMWATER MANAGEMENT DESIGNED BY:**



Nov 19, 2021

FOR SHEETS: EC-1 & U-1 THRU U-9

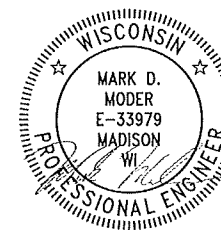
**STRUCTURAL DESIGNED BY:**



Nov 18, 2021

FOR SHEET: 11

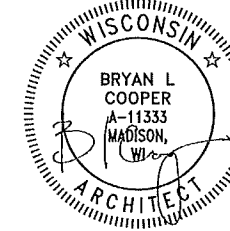
**SANITARY SEWER DESIGNED BY:**



Nov 19, 2021

FOR SHEETS: U-1 THRU U-7 & U-10

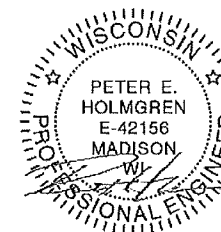
**BUILDING DESIGNED BY:**



Nov 18, 2021

FOR SHEETS: 9, 10, 12, & 13

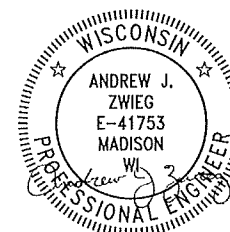
**WATER DESIGNED BY:**



Nov 18, 2021

FOR SHEET: W-1

**CIVIL DESIGNED BY:**



Nov 18, 2021

FOR SHEETS: D-1, G-1, P-1 & P-2

**PUBLIC WORKS IMPROVEMENT DESIGN**

**APPROVED BY**

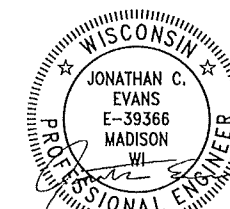
*Christy Fuchs*

CITY ENGINEER

Nov 22, 2021

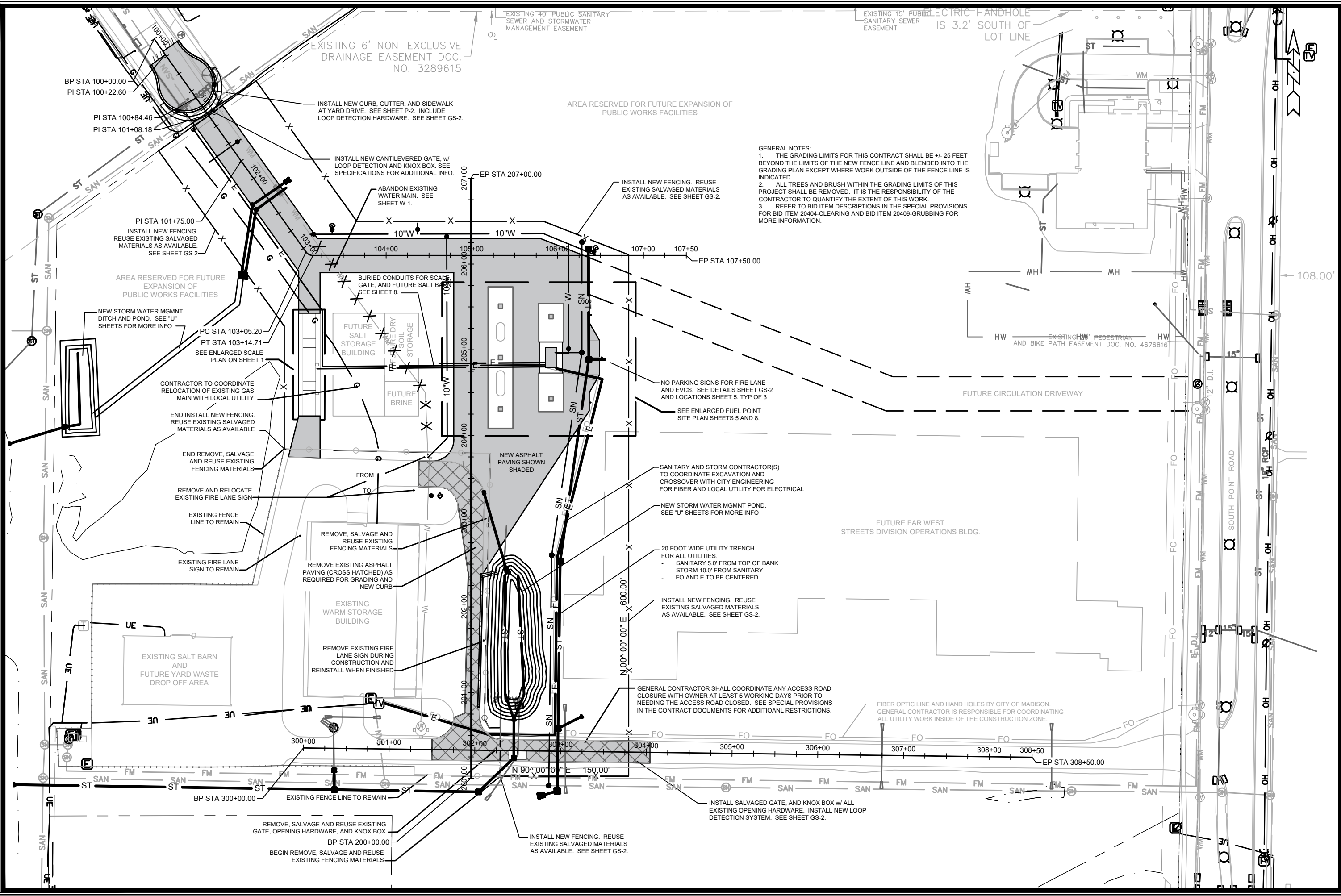
DATE

**ELECTRICAL & HEATING DESIGNED BY:**



Nov 18, 2021

FOR SHEETS: 14, 15, & 16



EXISTING 6' NON-EXCLUSIVE DRAINAGE EASEMENT DOC. NO. 3289615

EXISTING 40' PUBLIC SANITARY SEWER AND STORMWATER MANAGEMENT EASEMENT

EXISTING 75' PUBLIC SANITARY SEWER EASEMENT IS 3.2' SOUTH OF LOT LINE

AREA RESERVED FOR FUTURE EXPANSION OF PUBLIC WORKS FACILITIES

- GENERAL NOTES:
1. THE GRADING LIMITS FOR THIS CONTRACT SHALL BE +/- 25 FEET BEYOND THE LIMITS OF THE NEW FENCE LINE AND BLENDED INTO THE GRADING PLAN EXCEPT WHERE WORK OUTSIDE OF THE FENCE LINE IS INDICATED.
  2. ALL TREES AND BRUSH WITHIN THE GRADING LIMITS OF THIS PROJECT SHALL BE REMOVED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO QUANTIFY THE EXTENT OF THIS WORK.
  3. REFER TO BID ITEM DESCRIPTIONS IN THE SPECIAL PROVISIONS FOR BID ITEM 20404-CLEARING AND BID ITEM 20409-GRUBBING FOR MORE INFORMATION.

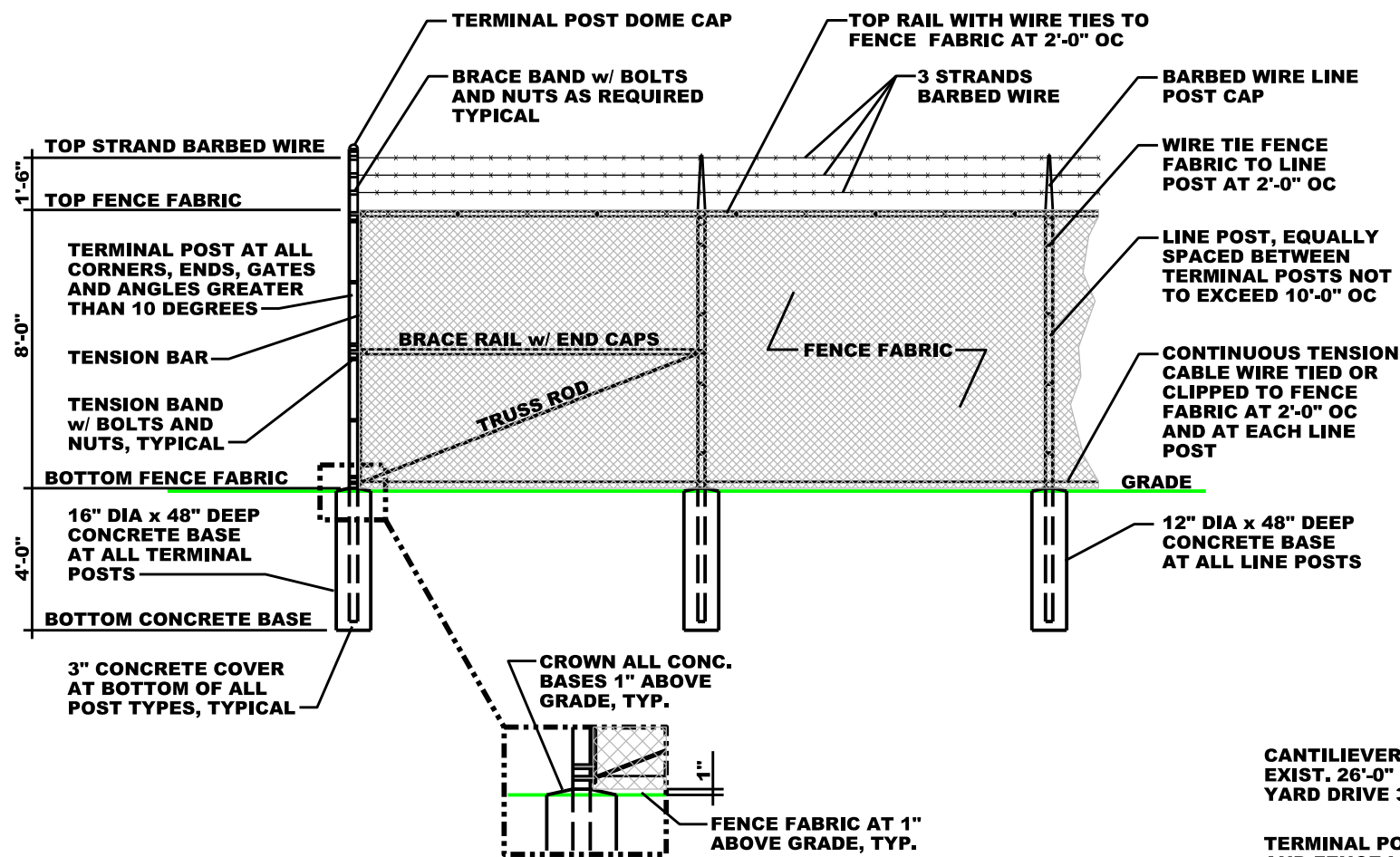
DATE	BY
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MARK	
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12444	GS-1

12444  
MADISON, WI  
8606  
CONTRACT NO:

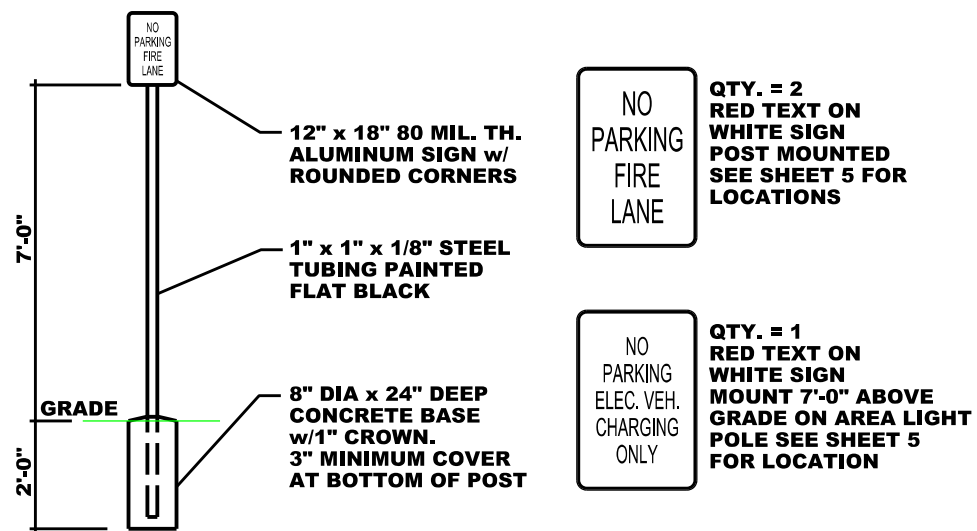
GENERAL SITE PLAN  
SOUTH POINT SCALE AND FUELING  
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12444  
GS-1



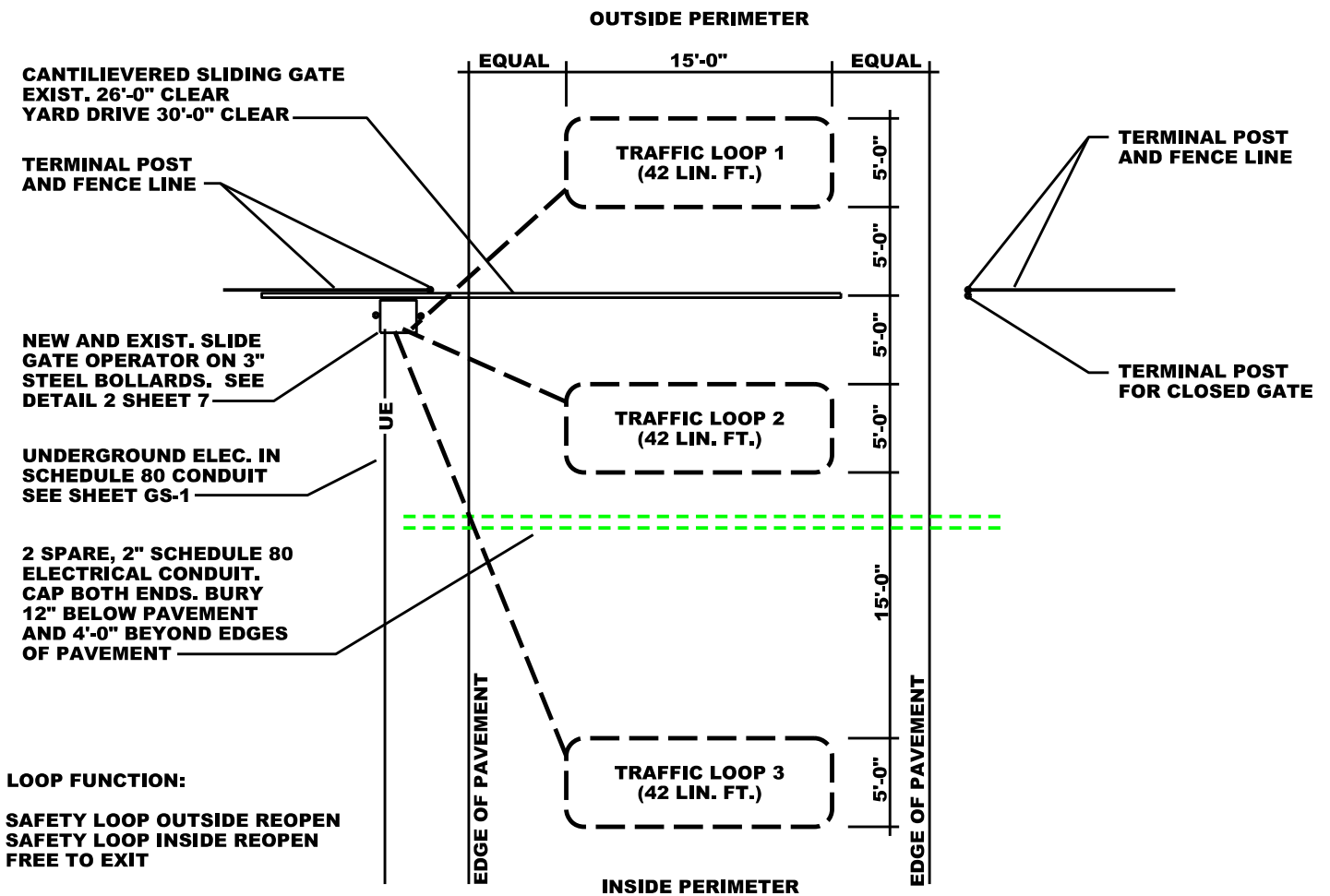
**1/GS-2 GENERAL FENCE DETAIL**  
NOT TO SCALE



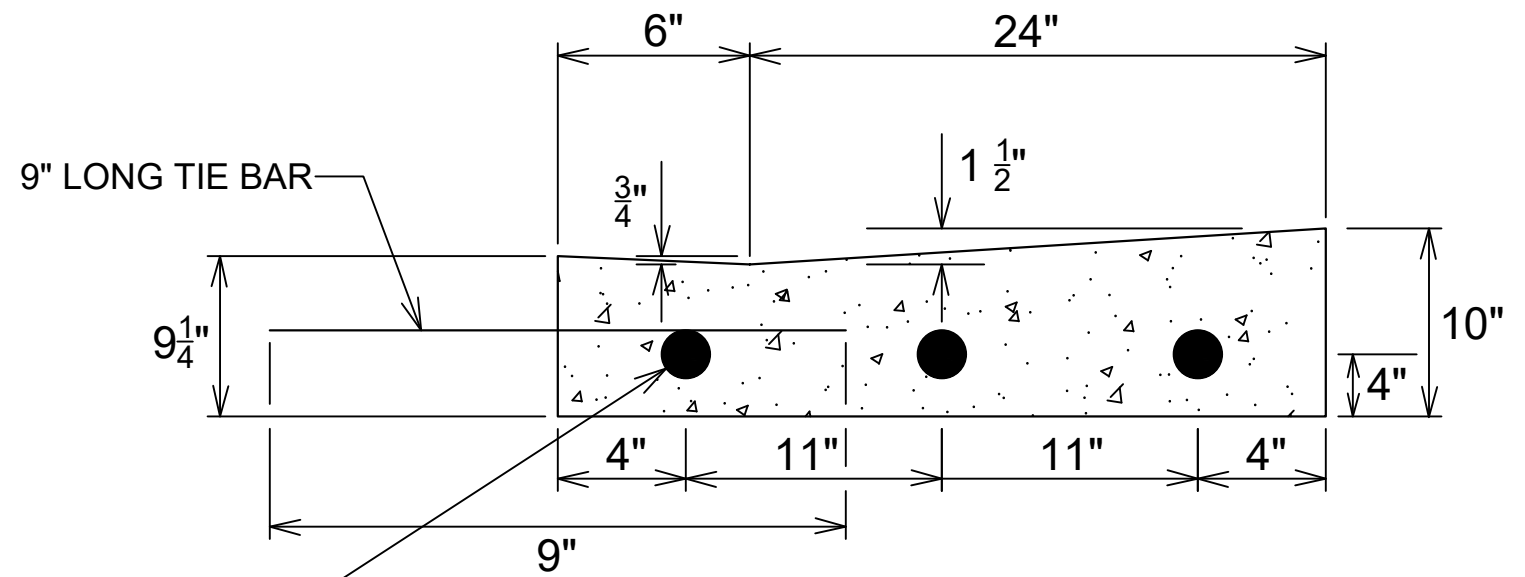
**3/GS-2 PARKING SIGN DETAILS**  
NOT TO SCALE

**FENCING AND GATE CONSTRUCTION NOTES:**

1. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS, DETAILS, AND SPECIFICATIONS ASSOCIATED WITH THIS CONTRACT SO THEY HAVE A FULL UNDERSTANDING OF THE CONTRACT AND SCOPE OF WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF MADISON DURING THE BIDDING PHASE.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING RESPONSIBILITIES OF ALL WORK INVOLVED TO COMPLETE THIS CONTRACT. THIS SHALL INCLUDE BUT NOT BE LIMITED TO DEMOLITION, EXCAVATION, TRENCHING, BACKFILL, AND ANY OTHER WORK THAT COULD CROSS AREAS OF RESPONSIBILITY.
3. THE FENCING AND GATE CONTRACTOR AND THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING DETAILS ON THIS SHEET, LOCATIONS INDICATED ON SHEET GS-1, AND SPECIFICATION 32 31 13 "CHAIN LINK FENCES AND GATES" IN EXHIBIT B OF THE CONTRACT DOCUMENTS.
4. THE FENCING AND GATE CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH THE SPECIFIED MANUFACTURERS GATE CONSTRUCTION DETAILS AND SHALL BE RESPONSIBLE FOR A COMPLETE INSTALLATION OF ALL COMPONENTS NOT PROVIDED WITH THE GATE, INCLUDING BUT NOT LIMITED TO SUPPORT POLES, CONCRETE, CAPS, BANDS, TENSION BARS, TENSION CABLE, AND BARBED WIRE.
5. PROVIDE AND INSTALL A NEW KNOX BOX AT THE YARD DRIVE GATE. COORDINATE MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLATION.



**2/GS-2 TRAFFIC LOOP DETAIL & ELECTRICAL SCHEMATIC**  
NOT TO SCALE



3 -  $\frac{1}{2}$ " DIA. EPOXY COATED BARS,  
 SPACED 3' ON CENTER  
 PERPENDICULAR TO THE CURB.  
 LOCATION OF TYPE 'A' REINFORCED  
 CONCRETE CURB AND GUTTER  
 SHOWN ON PLANS.

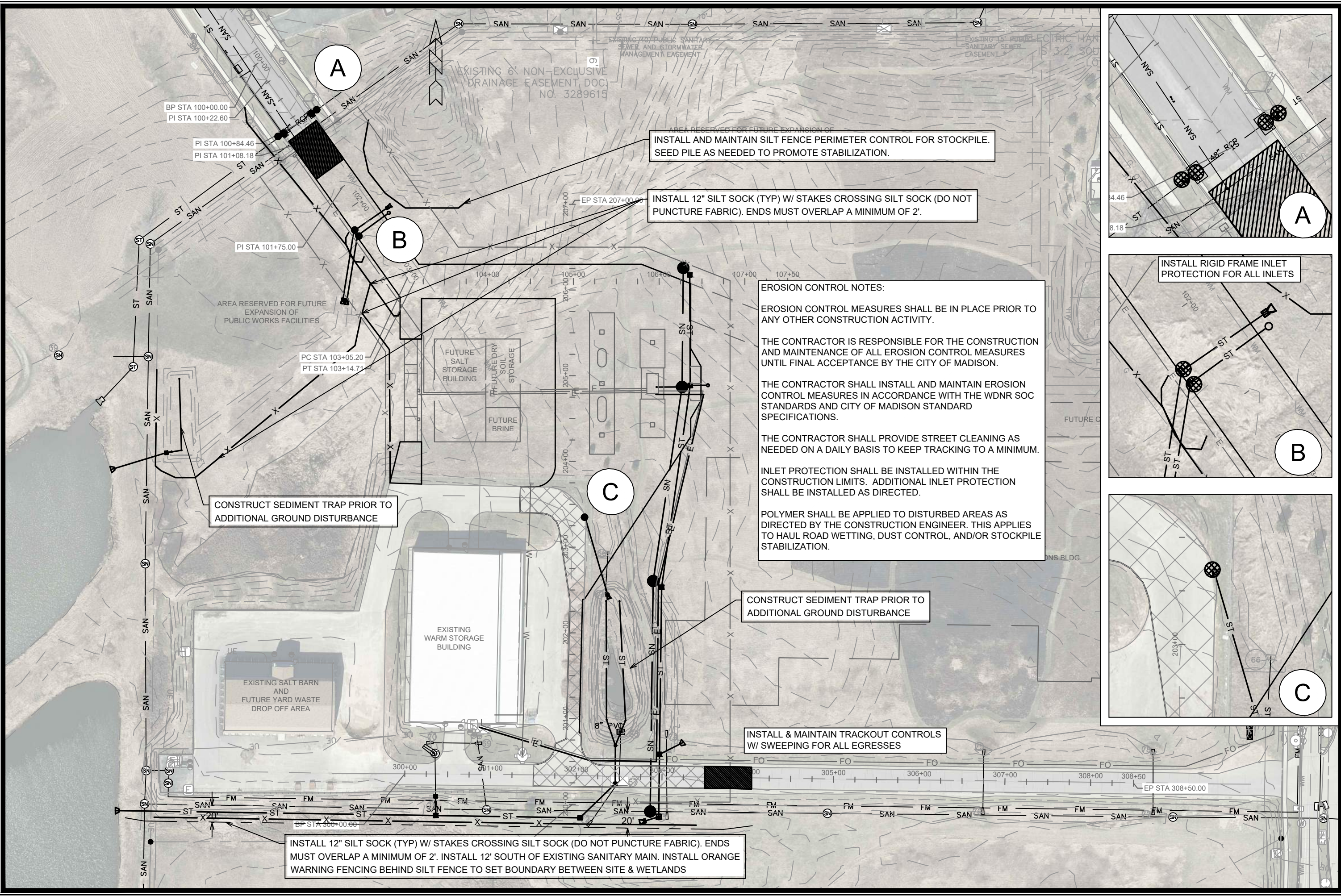
REINFORCED TYPE 'A' CONCRETE  
 CURB & GUTTER DETAIL

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12444  
 MADISON, WI  
 CONTRACT NO: 8606

STREET DETAILS  
 SOUTH POINT SCALE AND FUELING  
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INSTALL AND MAINTAIN SILT FENCE PERIMETER CONTROL FOR STOCKPILE. SEED PILE AS NEEDED TO PROMOTE STABILIZATION.

INSTALL 12" SILT SOCK (TYP) W/ STAKES CROSSING SILT SOCK (DO NOT PUNCTURE FABRIC). ENDS MUST OVERLAP A MINIMUM OF 2'.

**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.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

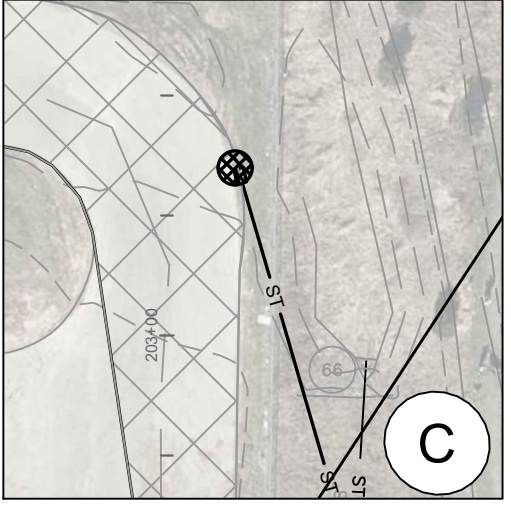
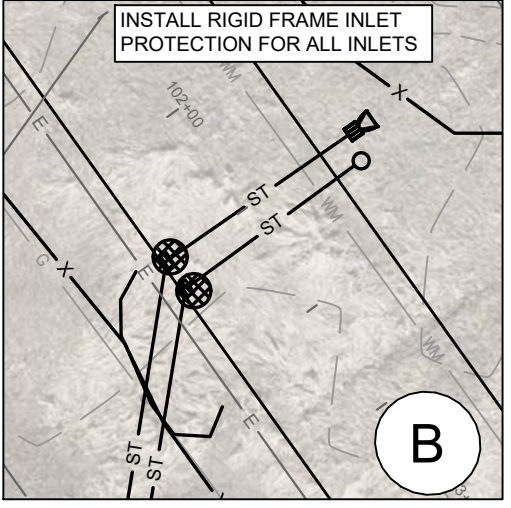
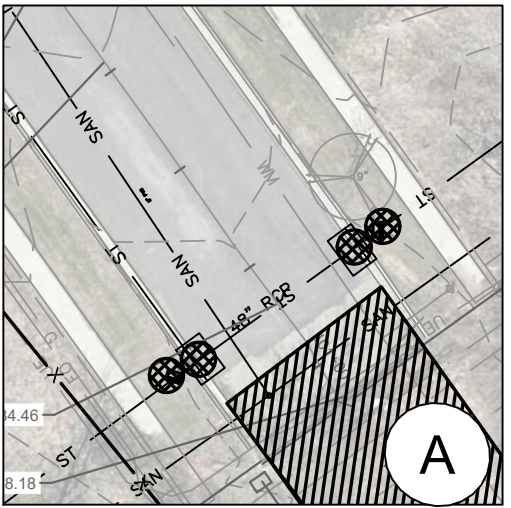
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER. THIS APPLIES TO HAUL ROAD WETTING, DUST CONTROL, AND/OR STOCKPILE STABILIZATION.

CONSTRUCT SEDIMENT TRAP PRIOR TO ADDITIONAL GROUND DISTURBANCE

CONSTRUCT SEDIMENT TRAP PRIOR TO ADDITIONAL GROUND DISTURBANCE

INSTALL & MAINTAIN TRACKOUT CONTROLS W/ SWEEPING FOR ALL EGRESSES

INSTALL 12" SILT SOCK (TYP) W/ STAKES CROSSING SILT SOCK (DO NOT PUNCTURE FABRIC). ENDS MUST OVERLAP A MINIMUM OF 2'. INSTALL 12' SOUTH OF EXISTING SANITARY MAIN. INSTALL ORANGE WARNING FENCING BEHIND SILT FENCE TO SET BOUNDARY BETWEEN SITE & WETLANDS

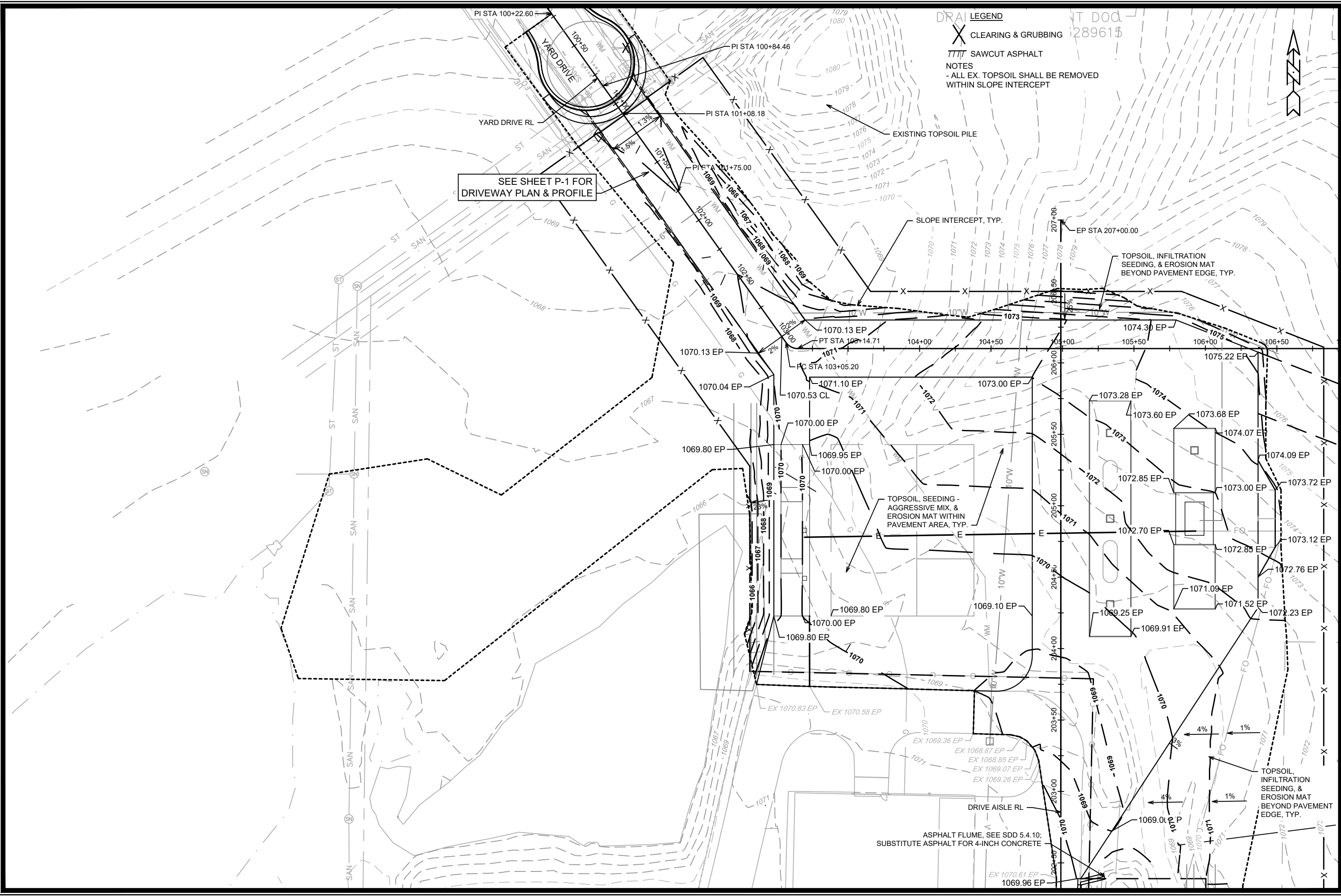


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12444  
MADISON, WI  
8606  
CONTRACT NO:

EROSION CONTROL PLAN  
SOUTH POINT SCALE AND FUELING  
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12444  
EC-1



**DRAIN LEGEND**  
 X CLEARING & GRUBBING  
 TTTT SAWCUT ASPHALT  
 NOTES  
 - ALL EX. TOPSOIL SHALL BE REMOVED WITHIN SLOPE INTERCEPT

SEE SHEET P-1 FOR DRIVEWAY PLAN & PROFILE

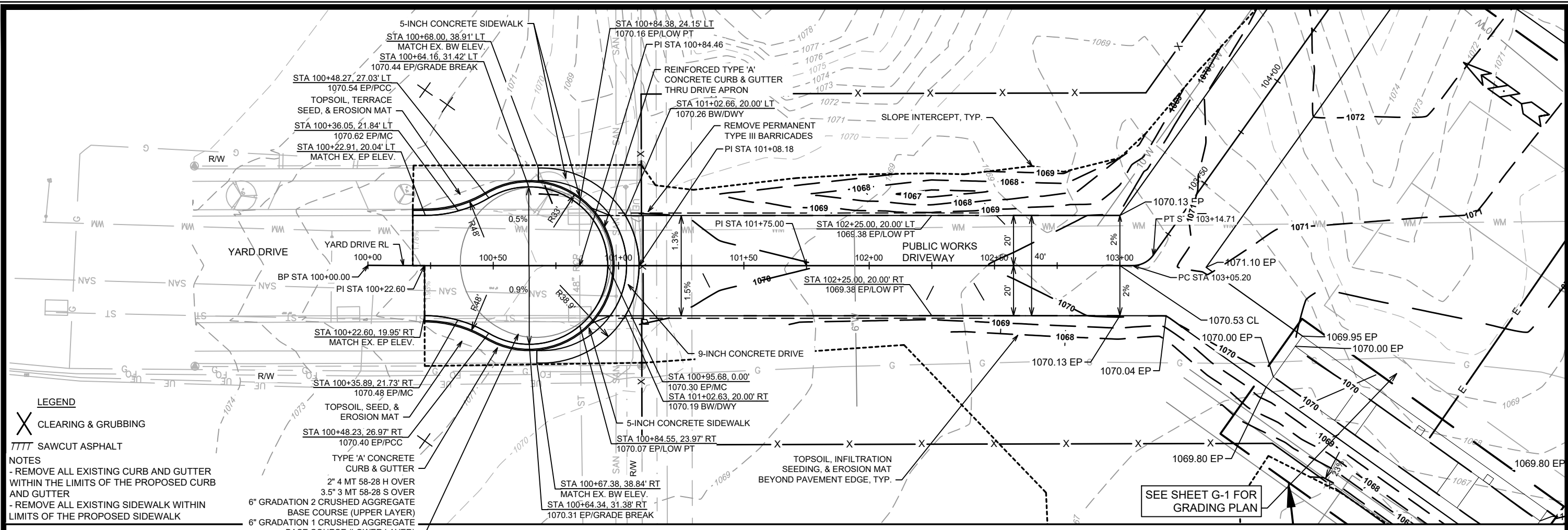
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MARK	
Designed By: ALZ	Date: 8/11/2021 11:24 AM
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12444	G-1

12444  
 MADISON, WI  
 CONTRACT NO: 8606

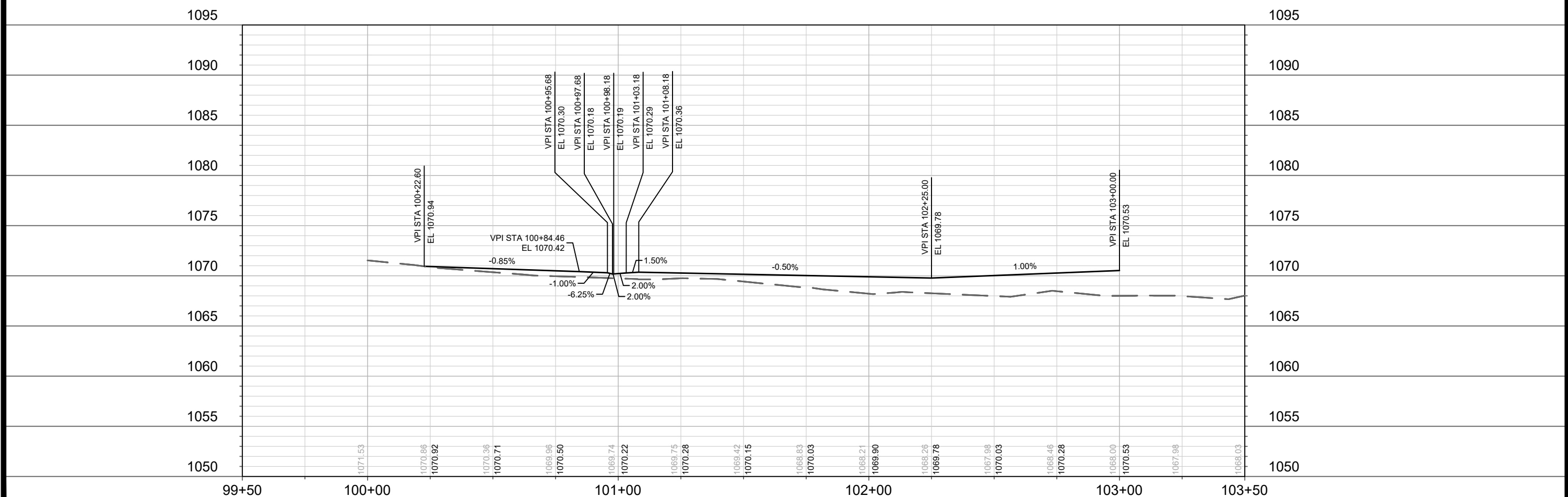
SITE GRADING PLAN  
 SOUTH POINT SCALE AND FUELING  
 M:\DESIGN\Projects\12444\CAD\Streets\12444EN-GradingPlan.dwg

12444  
 G-1





- LEGEND**
- X CLEARING & GRUBBING
  - TTTT SAWCUT ASPHALT
- NOTES**
- REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER
  - REMOVE ALL EXISTING SIDEWALK WITHIN LIMITS OF THE PROPOSED SIDEWALK
- TYPE 'A' CONCRETE CURB & GUTTER**  
 2" 4 MT 58-28 H OVER  
 3.5" 3 MT 58-28 S OVER
- 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE (UPPER LAYER)**  
**6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE (LOWER LAYER)**



DATE	BY	REVISION	SCALE	P-1
11/24/2021	AZJ	12444	1" = 40'	P-1

**12444 MADISON, WI 8606**

**CONTRACT NO. 12444**

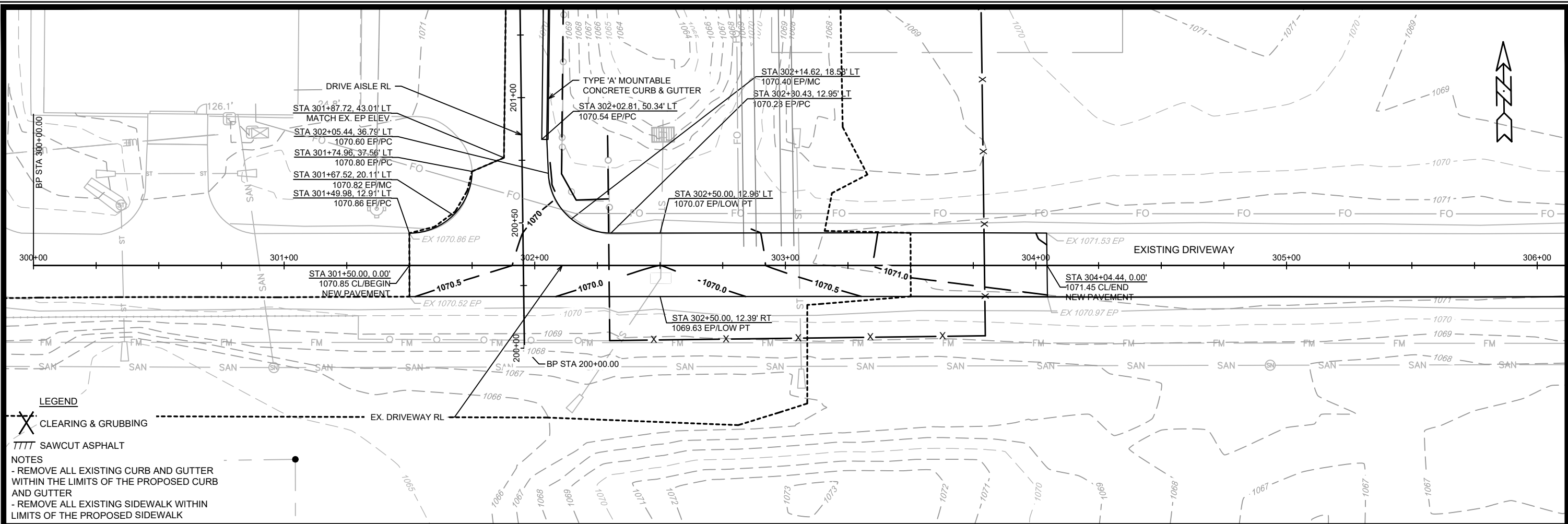
**YARD DRIVE AND PUBLIC WORKS DRIVEWAY PLAN AND PROFILE**

**SOUTH POINT SCALE AND FUELING**

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**12444**

**P-1**



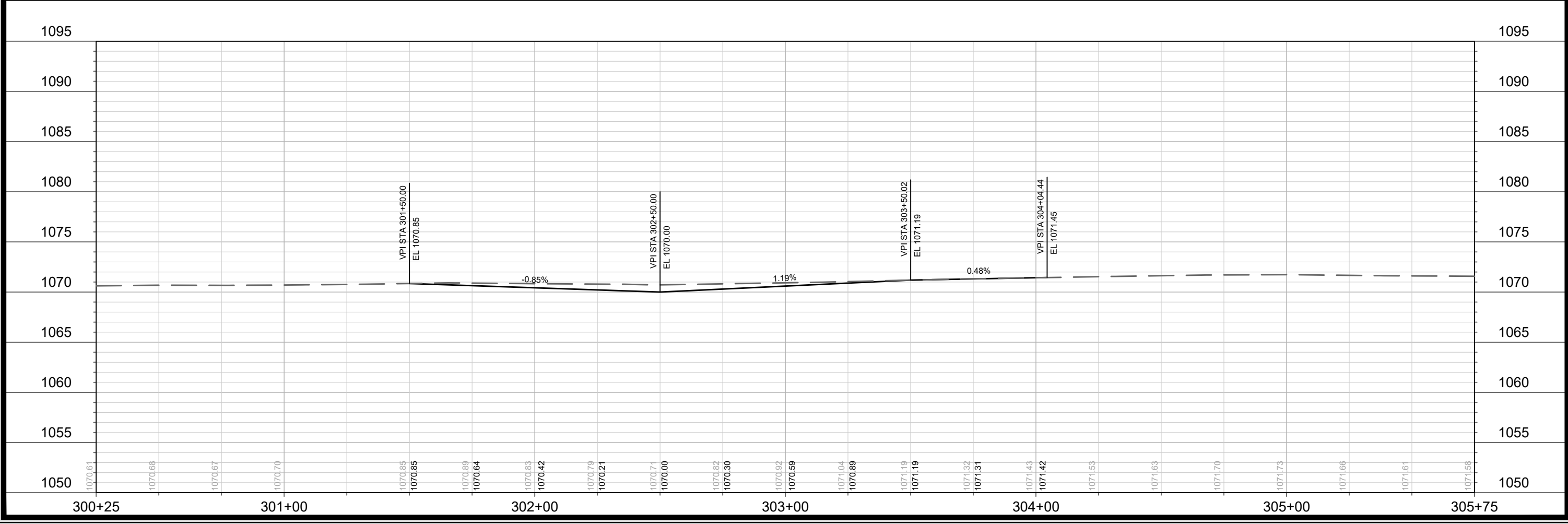
**LEGEND**

X CLEARING & GRUBBING

TTTT SAWCUT ASPHALT

**NOTES**

- REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER
- REMOVE ALL EXISTING SIDEWALK WITHIN LIMITS OF THE PROPOSED SIDEWALK




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12444  
MADISON, WI  
8606  
CONTRACT NO:

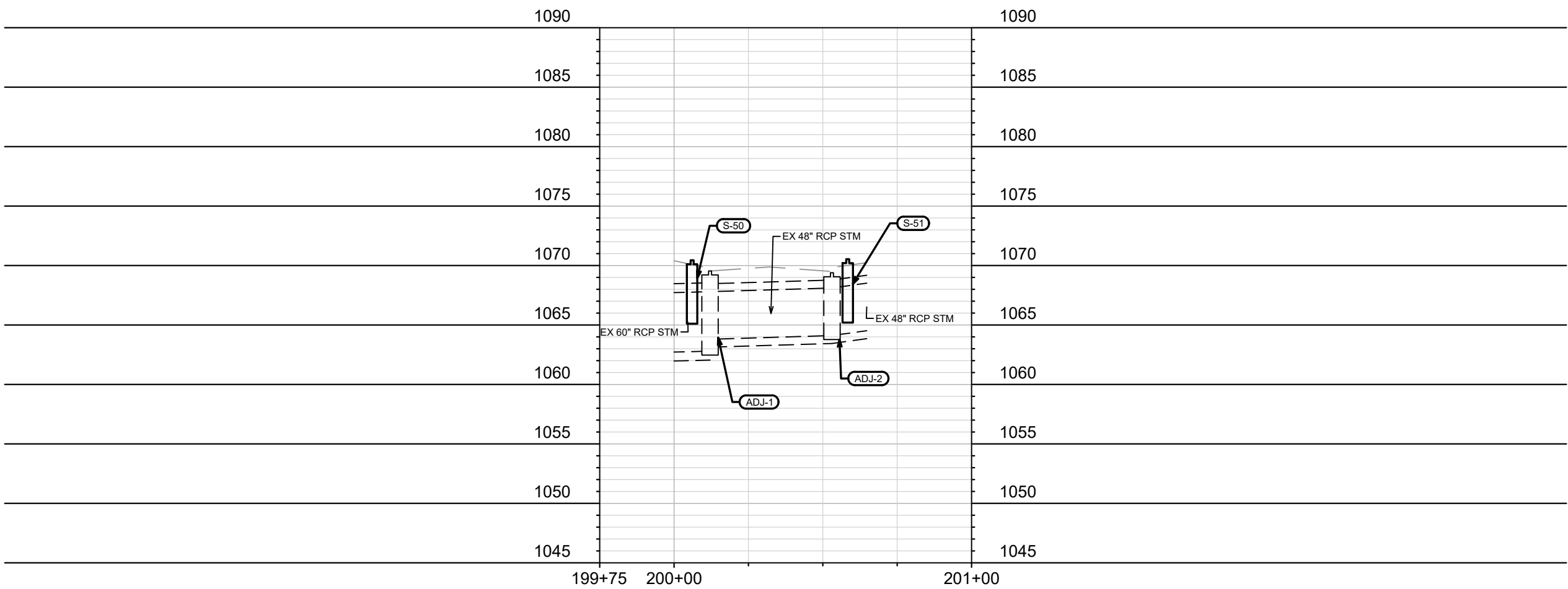
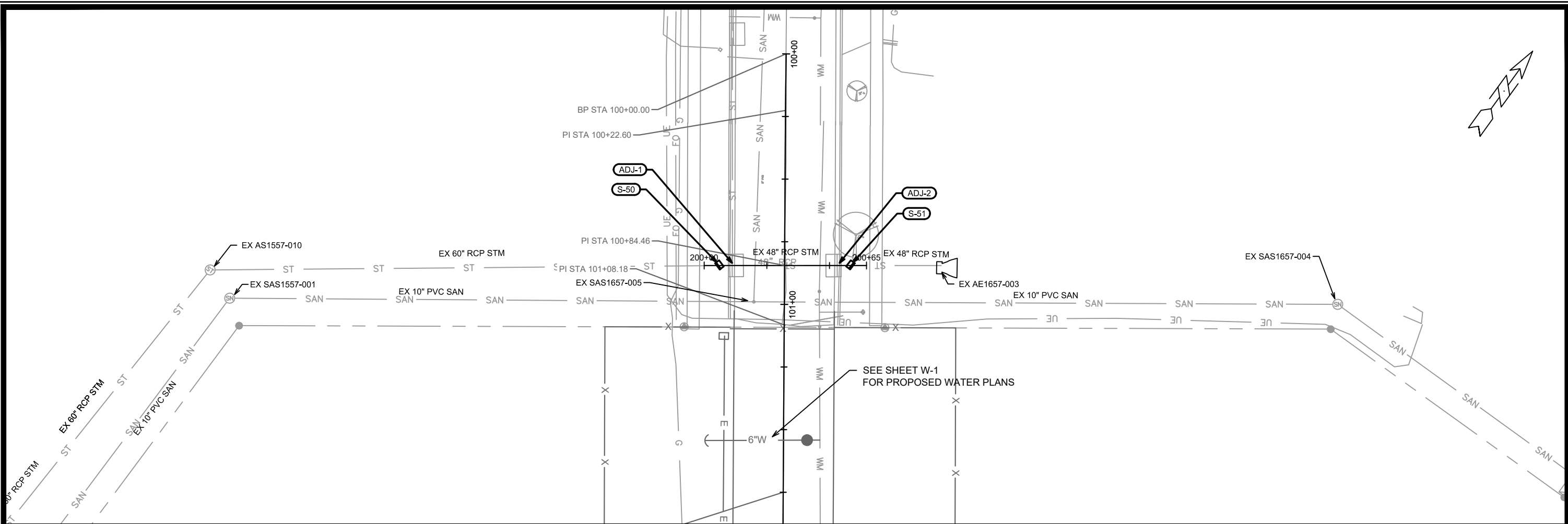
EXISTING DRIVEWAY PLAN AND PROFILE  
SOUTH POINT SCALE AND FUELING

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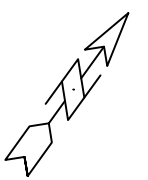


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P-2





SEE SHEET W-1 FOR PROPOSED WATER PLANS

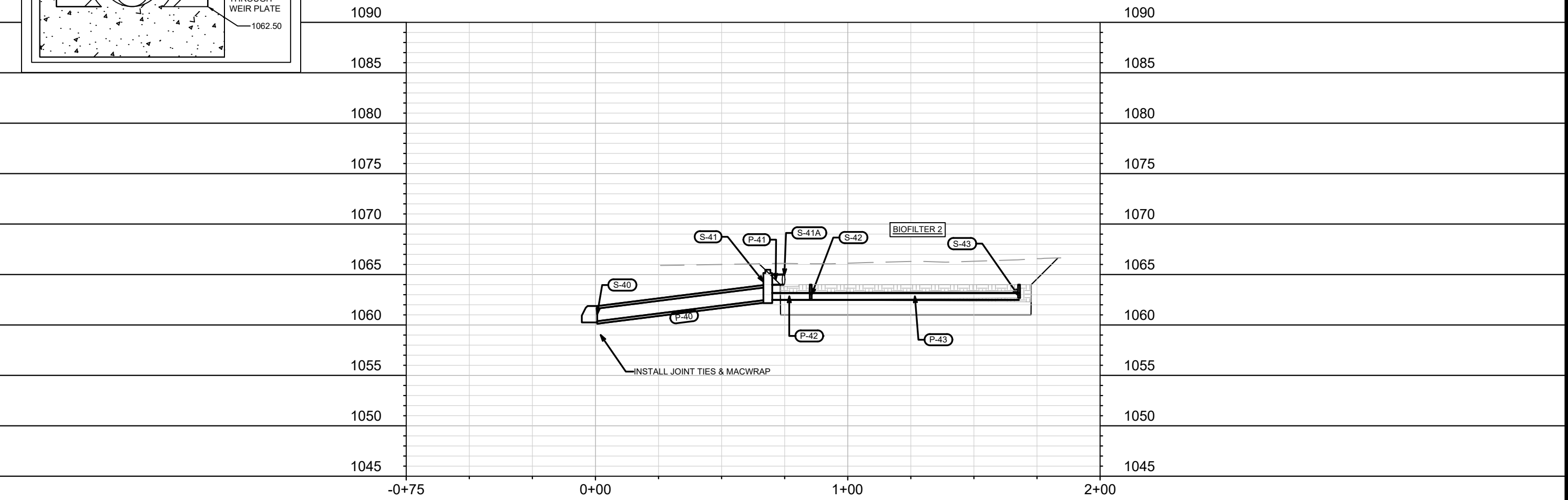
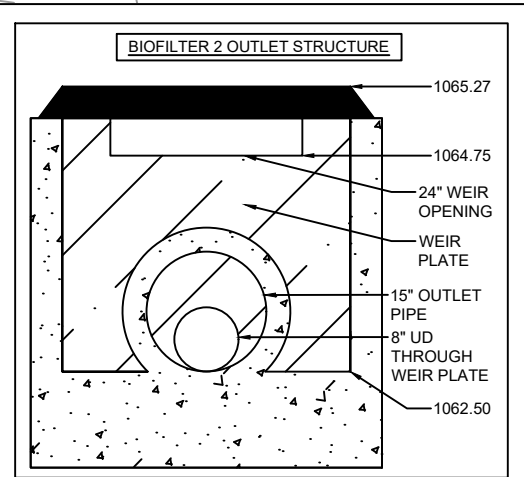
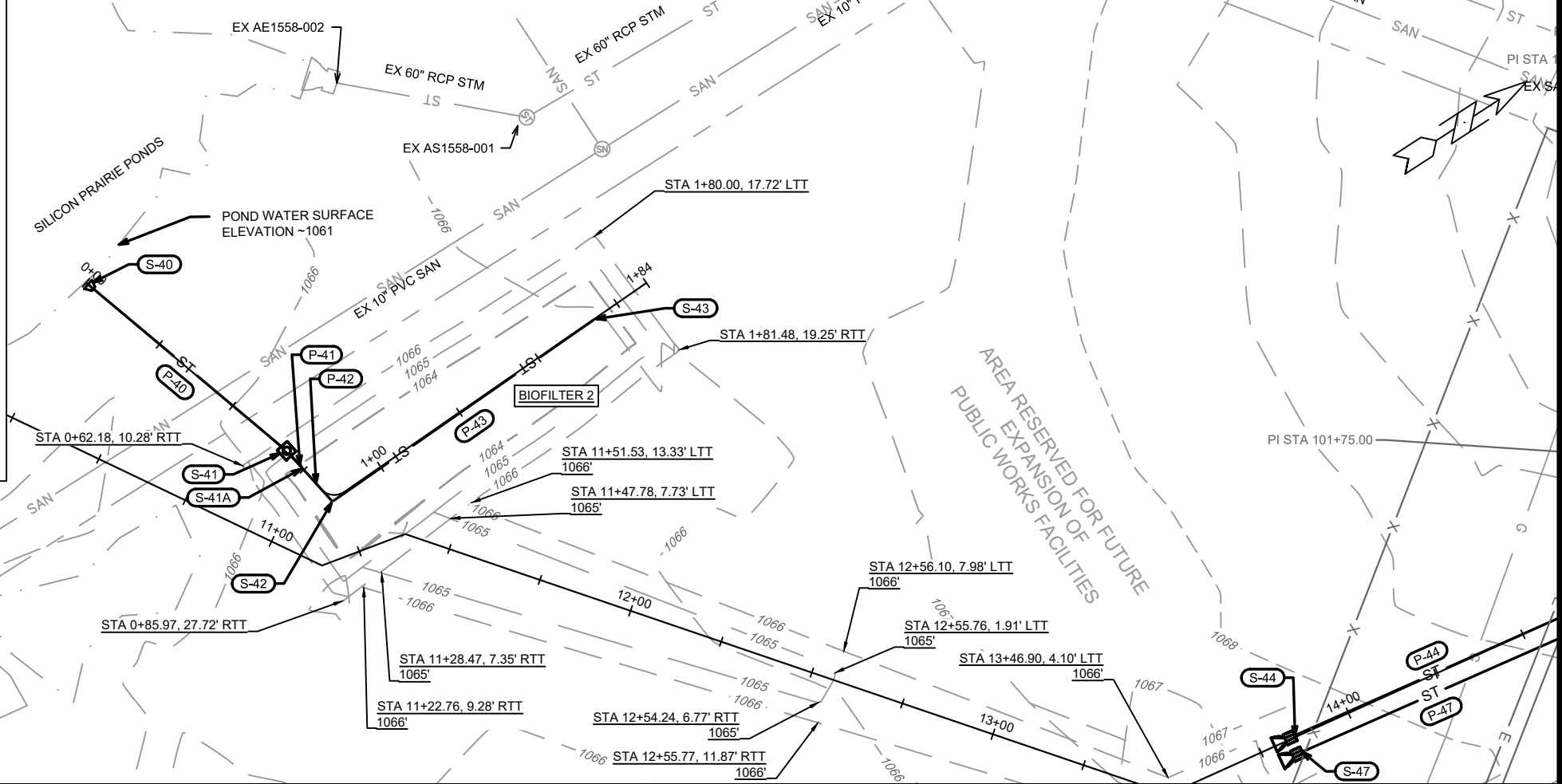
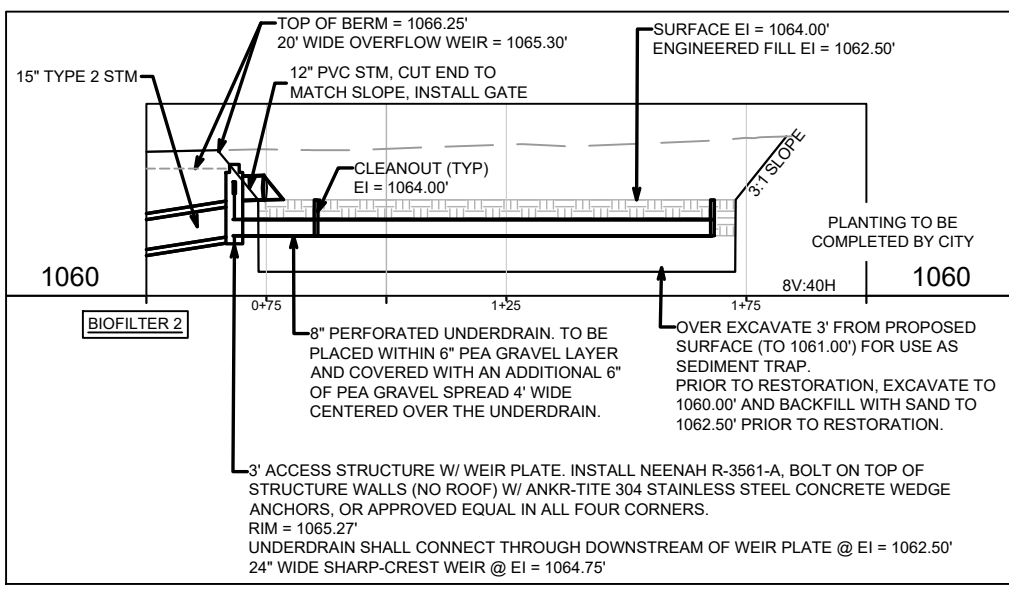


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12444  
 MADISON, WI  
 8606  
 CONTRACT NO:  
 WEST SIDE PUBLIC WORKS - YARD DR STORM PLAN & PROFILE  
 SOUTH POINT SCALE AND FUELING  
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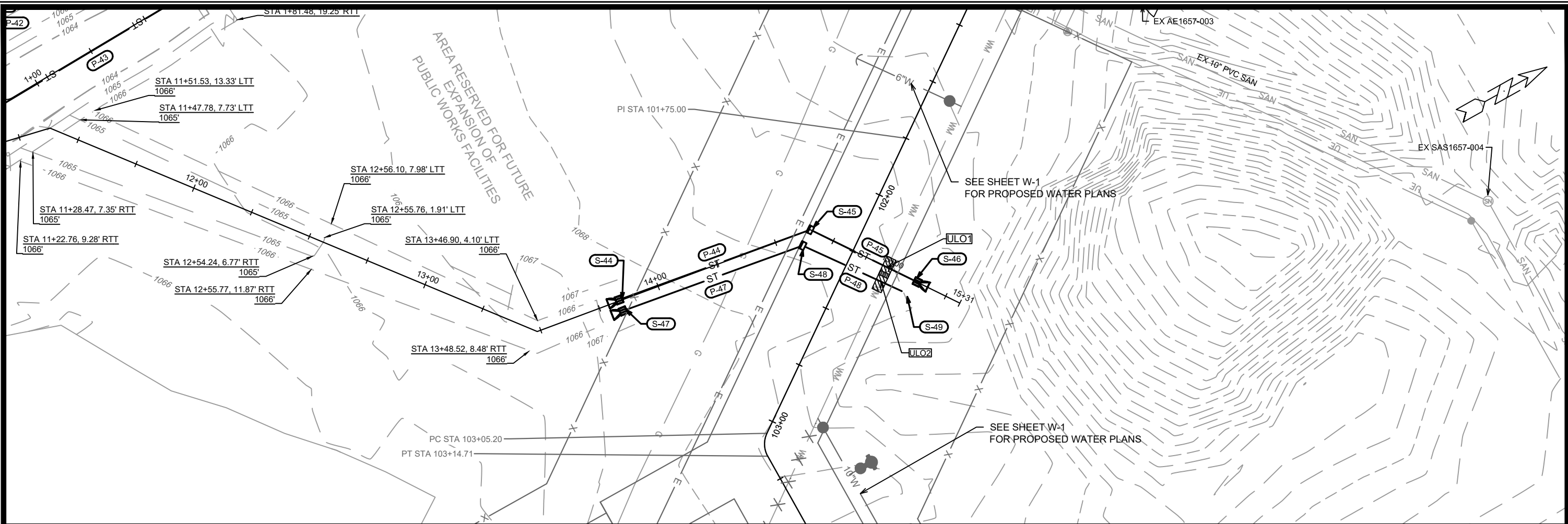


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 U-1



DATE	BY	U-2
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PROJECT TITLE:		12444 WEST SIDE PUBLIC WORKS - WEST STORM PLAN & PROFILE
LOCATION:		MADISON, WI
SCALE:		SOUTH POINT SCALE AND FUELING
FILE NAME:		M:\DESIGN\Projects\12444\CAD\sewers\12444SWR-PnP.dwg
PROJECT NUMBER:		12444
SHEET NUMBER:		U-2



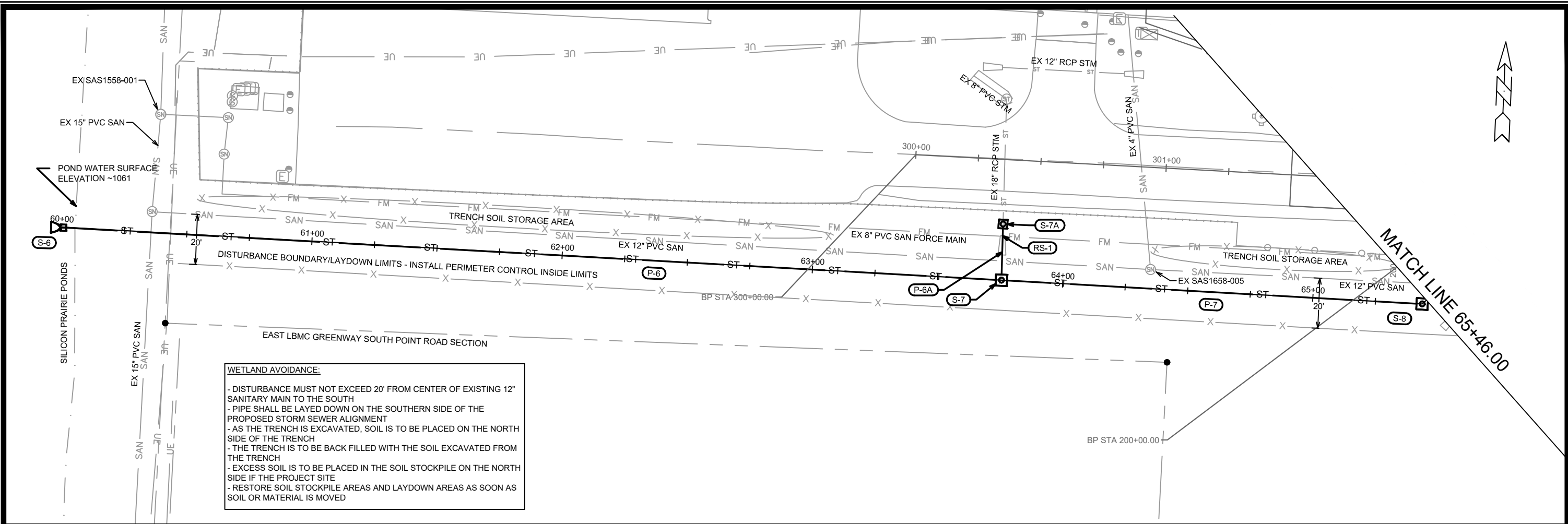


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12444  
 MADISON, WI  
 CONTRACT NO: 8606  
 WEST SIDE PUBLIC WORKS - NW STORM PLAN & PROFILE  
 SOUTH POINT SCALE AND FUELING  
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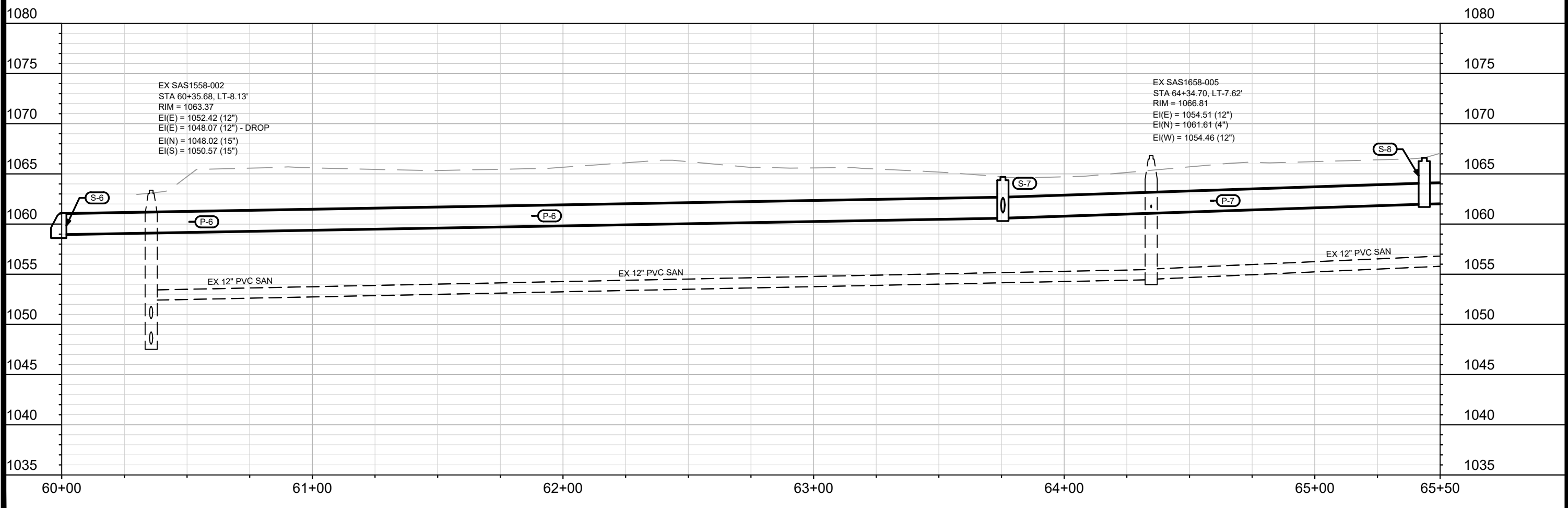


12444  
 U-3



**WETLAND AVOIDANCE:**

- DISTURBANCE MUST NOT EXCEED 20' FROM CENTER OF EXISTING 12" SANITARY MAIN TO THE SOUTH
- PIPE SHALL BE LAYED DOWN ON THE SOUTHERN SIDE OF THE PROPOSED STORM SEWER ALIGNMENT
- AS THE TRENCH IS EXCAVATED, SOIL IS TO BE PLACED ON THE NORTH SIDE OF THE TRENCH
- THE TRENCH IS TO BE BACK FILLED WITH THE SOIL EXCAVATED FROM THE TRENCH
- EXCESS SOIL IS TO BE PLACED IN THE SOIL STOCKPILE ON THE NORTH SIDE IF THE PROJECT SITE
- RESTORE SOIL STOCKPILE AREAS AND LAYDOWN AREAS AS SOON AS SOIL OR MATERIAL IS MOVED



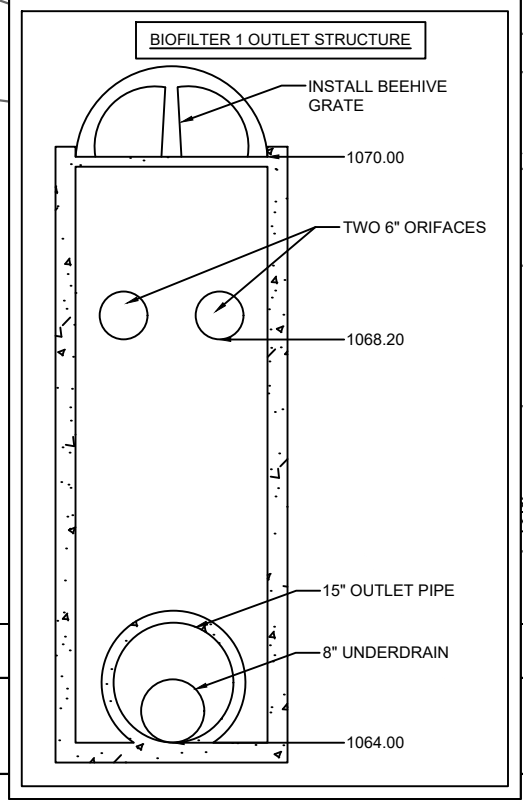
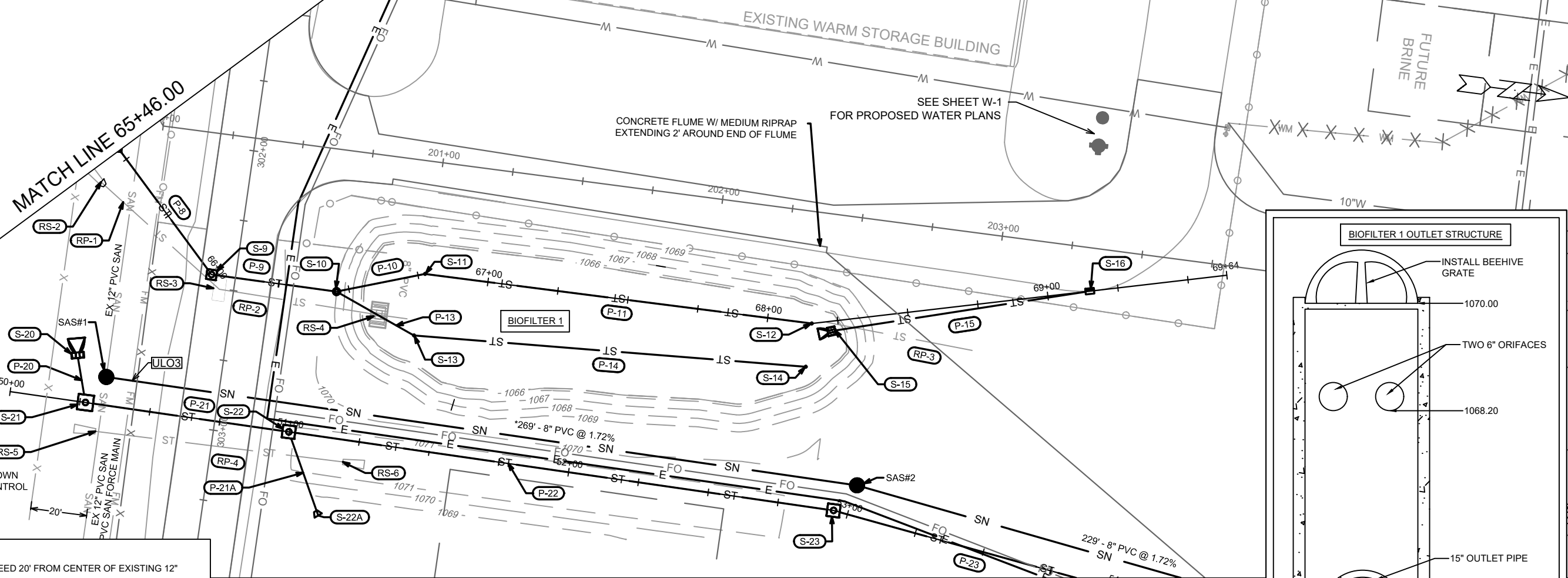
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12444  
MADISON, WI  
8606  
CONTRACT NO:

WEST SIDE PUBLIC WORKS - SOUTH STORM PLAN & PROFILE  
SOUTH POINT SCALE AND FUELING  
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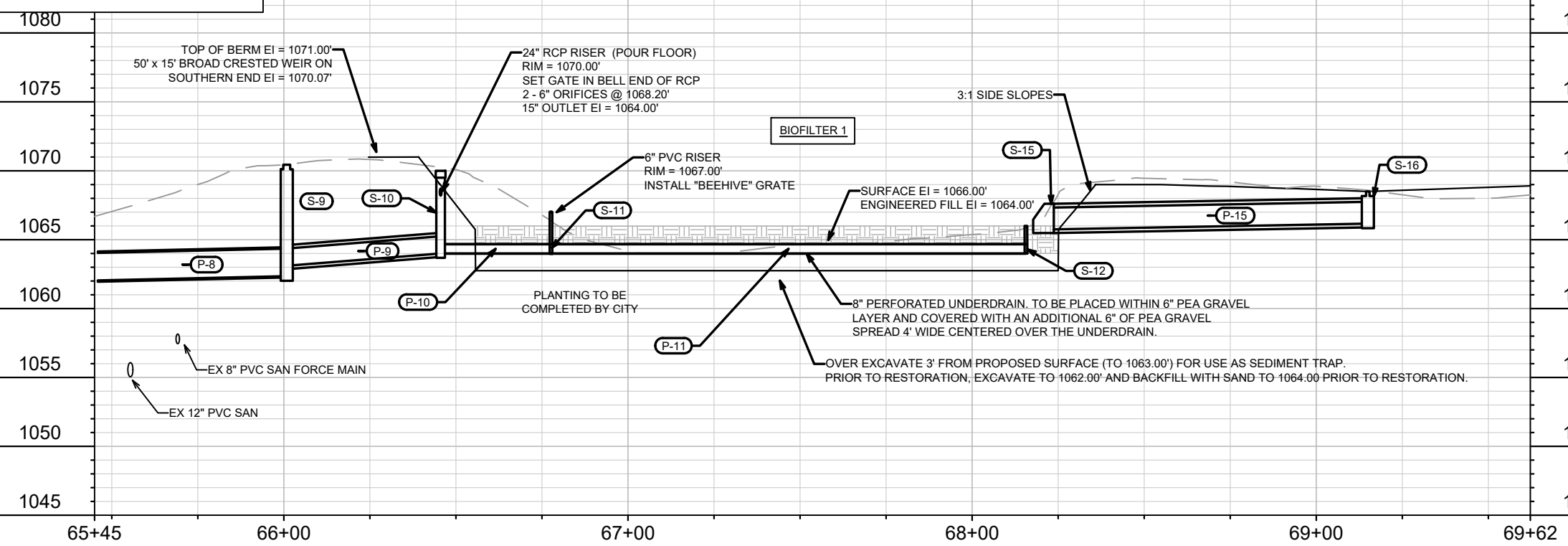


12444  
U-4



**WETLAND AVOIDANCE:**

- DISTURBANCE MUST NOT EXCEED 20' FROM CENTER OF EXISTING 12" SANITARY MAIN TO THE SOUTH
- PIPE SHALL BE LAYED DOWN ON THE SOUTHERN SIDE OF THE PROPOSED STORM SEWER ALIGNMENT
- AS THE TRENCH IS EXCAVATED, SOIL IS TO BE PLACED ON THE NORTH SIDE OF THE TRENCH
- THE TRENCH IS TO BE BACK FILLED WITH THE SOIL EXCAVATED FROM THE TRENCH
- EXCESS SOIL IS TO BE PLACED IN THE SOIL STOCKPILE ON THE NORTH SIDE IF THE PROJECT SITE
- RESTORE SOIL STOCKPILE AREAS AND LAYDOWN AREAS AS SOON AS SOIL OR MATERIAL IS MOVED

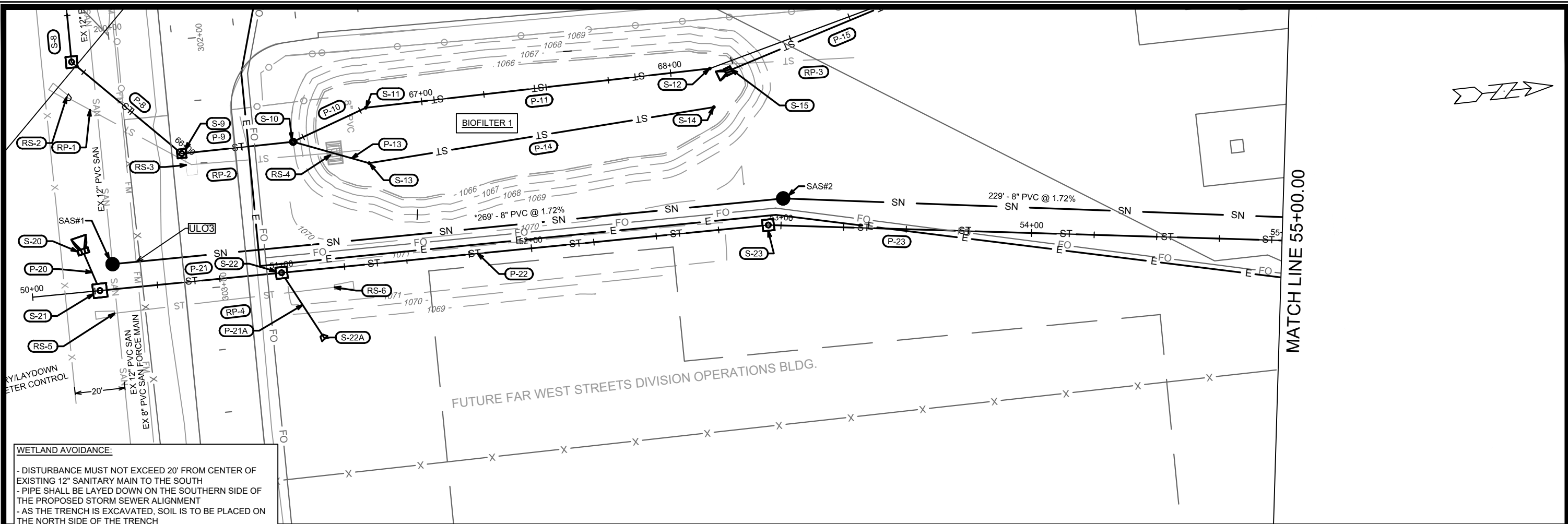


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12444  
 MADISON, WI  
 CONTRACT NO: 8606  
 WEST SIDE PUBLIC WORKS - SOUTH STORM PLAN & PROFILE  
 SOUTH POINT SCALE AND FUELING  
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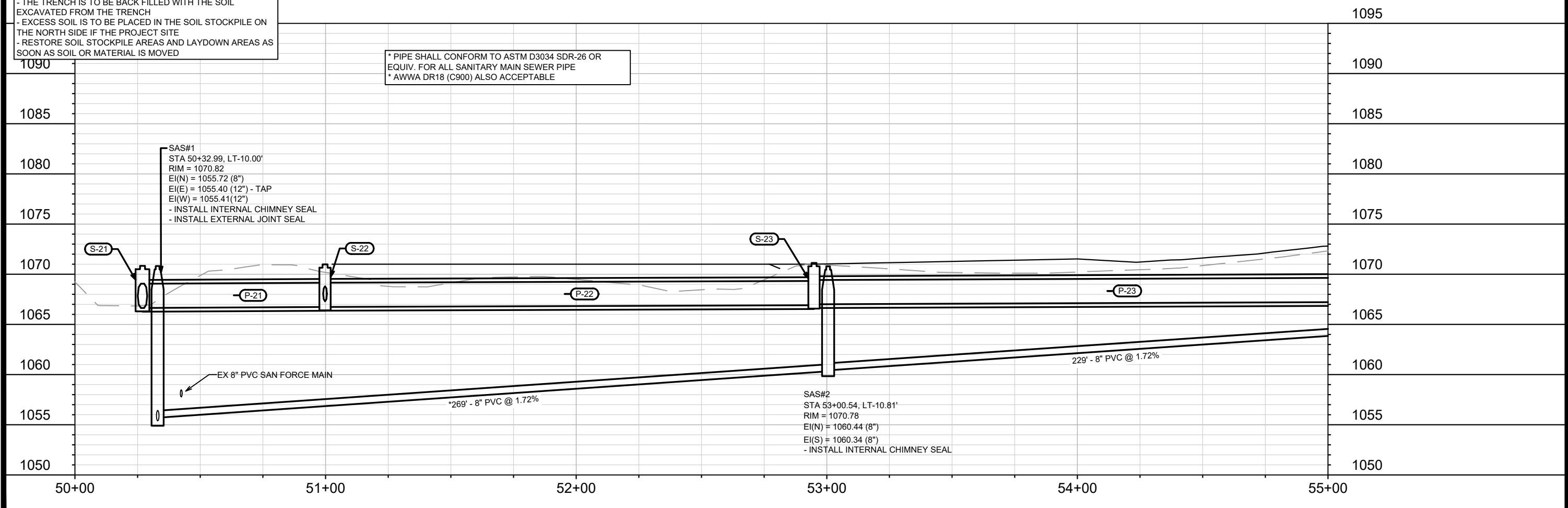
12444  
 U-5



**WETLAND AVOIDANCE:**

- DISTURBANCE MUST NOT EXCEED 20' FROM CENTER OF EXISTING 12" SANITARY MAIN TO THE SOUTH
- PIPE SHALL BE LAYED DOWN ON THE SOUTHERN SIDE OF THE PROPOSED STORM SEWER ALIGNMENT
- AS THE TRENCH IS EXCAVATED, SOIL IS TO BE PLACED ON THE NORTH SIDE OF THE TRENCH
- THE TRENCH IS TO BE BACK FILLED WITH THE SOIL EXCAVATED FROM THE TRENCH
- EXCESS SOIL IS TO BE PLACED IN THE SOIL STOCKPILE ON THE NORTH SIDE IF THE PROJECT SITE
- RESTORE SOIL STOCKPILE AREAS AND LAYDOWN AREAS AS SOON AS SOIL OR MATERIAL IS MOVED

\* PIPE SHALL CONFORM TO ASTM D3034 SDR-26 OR EQUIV. FOR ALL SANITARY MAIN SEWER PIPE  
 \* AWWA DR18 (C900) ALSO ACCEPTABLE



SAS#1  
 STA 50+32.99, LT-10.00'  
 RIM = 1070.82  
 EI(N) = 1055.72 (8")  
 EI(E) = 1055.40 (12") - TAP  
 EI(W) = 1055.41(12")  
 - INSTALL INTERNAL CHIMNEY SEAL  
 - INSTALL EXTERNAL JOINT SEAL

SAS#2  
 STA 53+00.54, LT-10.81'  
 RIM = 1070.78  
 EI(N) = 1060.44 (8")  
 EI(S) = 1060.34 (8")  
 - INSTALL INTERNAL CHIMNEY SEAL

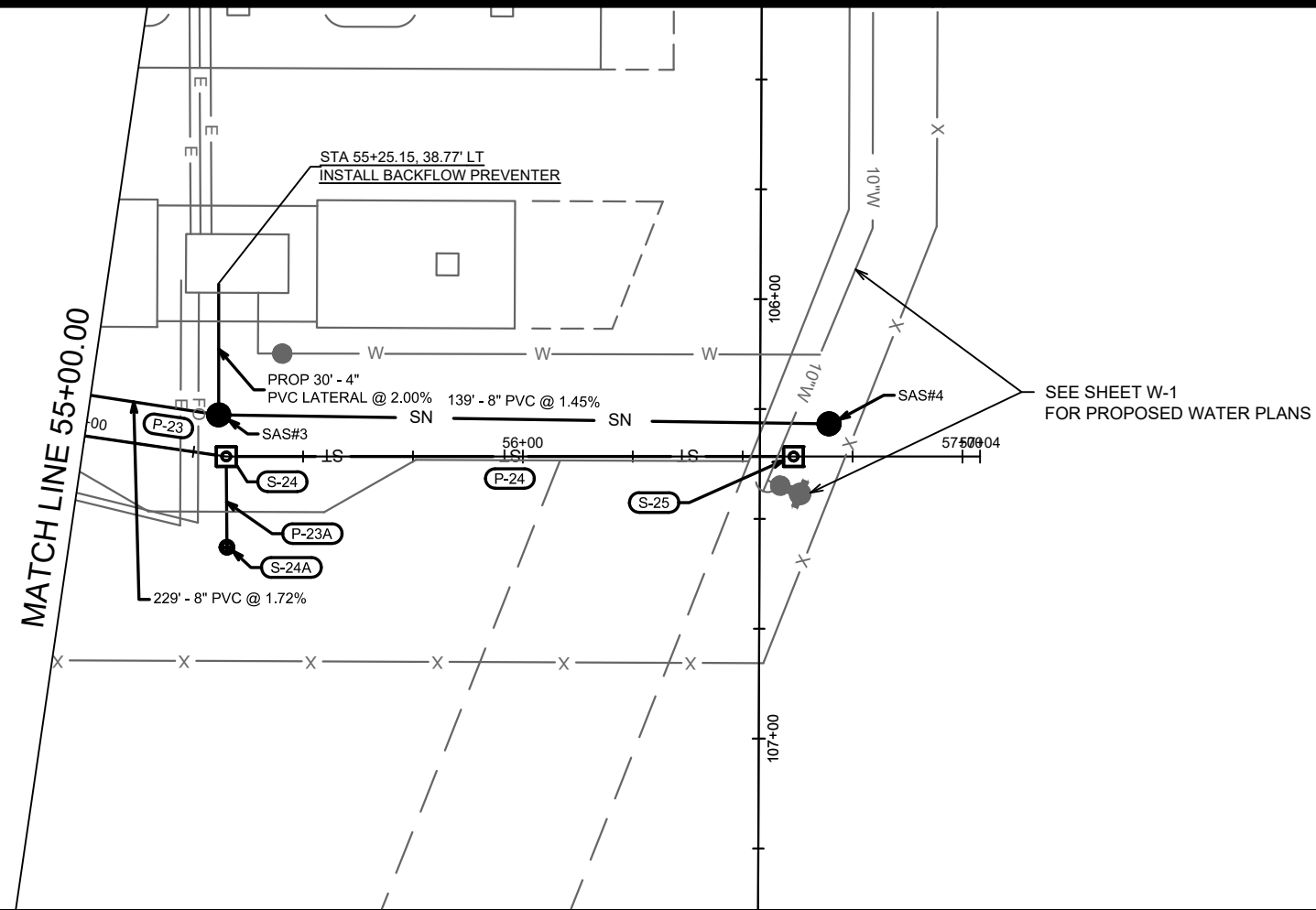
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 MADISON, WI  
 8606  
 CONTRACT NO:

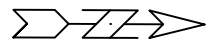
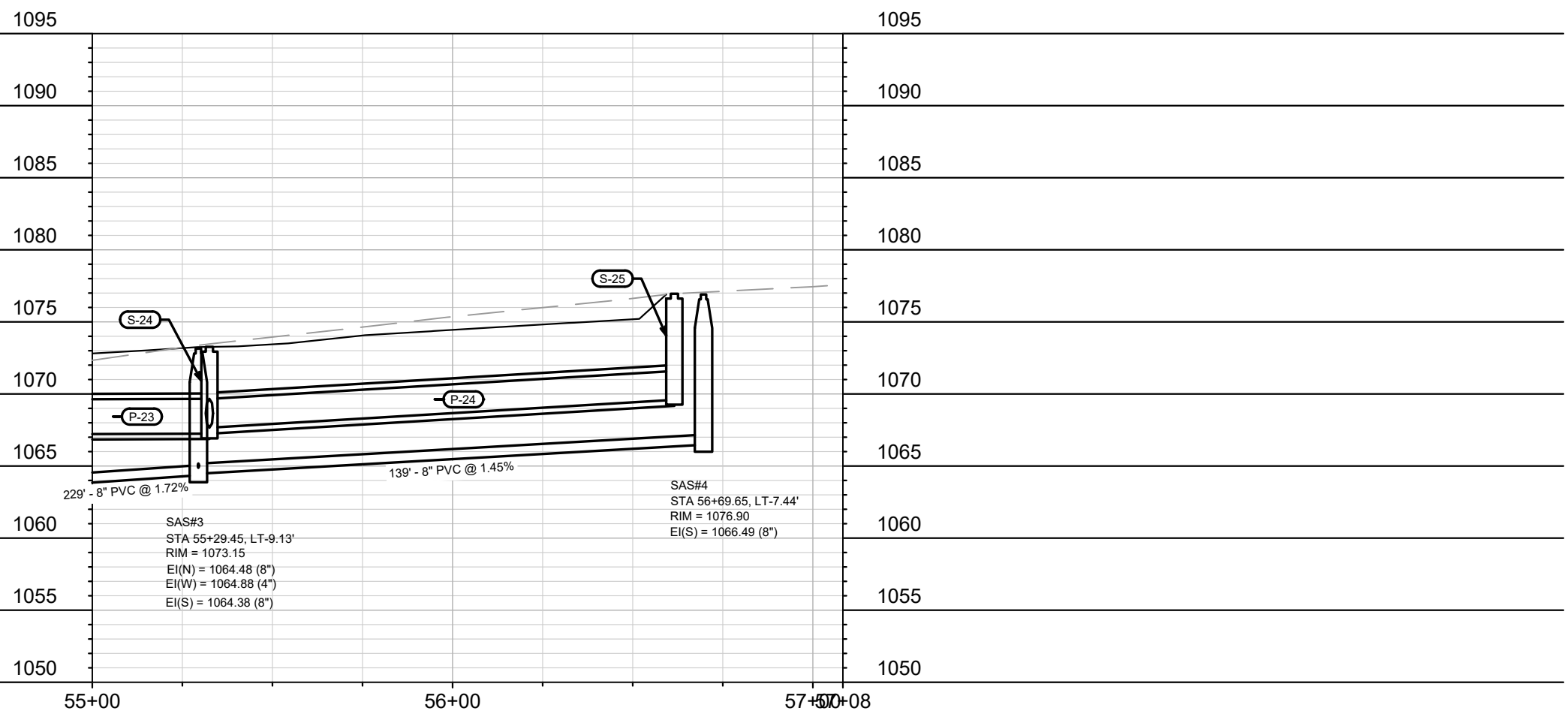
WEST SIDE PUBLIC WORKS - EAST SEWER PLAN & PROFILE  
 SOUTH POINT SCALE AND FUELING  
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WEST SIDE PUBLIC WORKS - EAST SEWER PLAN & PROFILE  
 SOUTH POINT SCALE AND FUELING  
 CONTRACT NO: 8606  
 12444  
 MADISON, WI  
 U-7



12444  
 U-7

# STORM SEWER SCHEDULE

SOUTH POINT SCALE AND FUELING	SHEET NO.
PROJECT NO. 12444	U-8
STORM SEWER SCHEDULE	
CITY OF MADISON	

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>YARD DR</b>							
S-50	100+84.38	RT-26.01	SADDLED INLET TYPE 2	1070.53	1068.81	-	LP; FP; W/3067-7004-VB; (1)
S-51	100+84.07	LT-26.30	SADDLED INLET TYPE 2	1070.44	1068.95	-	LP; FP; W/3067-7004-VB; (1)

## WEST ALIGNMENT

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-40	0+00.68	LT-0.05	15" AE & GATE	-	1060.37	-	
S-41	0+68.32	LT-0.29	BF OUTLET 2	1065.27	1062.50	2.77	FP; W/3561-A; (2)
S-41A	0+74.56	LT-0.21	12" PVC MATCH GRADE W/ GATE	-	1064.00	-	(3)
S-42	0+85.32	RT-1.71	6" CLEANOUT & CAP	1064.00	1062.50	1.50	
S-43	1+67.90	RT-0.11	6" CLEANOUT & CAP	1064.00	1062.50	1.50	

## NORTHWEST ALIGNMENT

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-44	13+84.88	LT-0.45	19X30 HERCP AE & GATE	-	1066.09	-	
S-45	14+64.78	CL	4X4 SAS	1069.40	1066.41	2.99	FP; W/1878-B7G
S-46	15+10.91	LT-0.09	19X30 HERCP AE & GATE	-	1066.60	-	
S-47	13+84.83	RT-4.25	19X30 HERCP AE & GATE	-	1066.09	-	
S-48	14+59.73	RT-4.87	3X3 SAS	1069.46	1066.41	3.05	FP; W/1878-B7G
S-49	15+10.06	RT-5.84	PLUG FOR 19X30 HERCP	-	1066.60	-	

## SOUTH ALIGNMENT

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-6	60+01.88	RT-0.18	24" AE & GATE	-	1059.00	-	
S-7	63+75.55	CL	4X4 SAS	1064.70	1060.63	4.07	W/1550-0054
S-7A	63+74.92	LT-22.42	3X3 SAS	1067.65	1063.87	3.78	W/1550-0054
S-8	65+43.69	CL	4X4 SAS	1066.60	1062.03	4.57	W/1550-0054
S-9	66+00.82	CL	3X3 SAS	1070.44	1062.35	8.09	W/1550-0054
S-10	66+45.53	CL	BF OUTLET 1	1070.00	1064.00	6.00	W/4730-23H; (4)
S-11	66+77.54	CL	6" PVC STANDPIPE W/ GRATE	1067.00	1064.00	3.00	(5)
S-12	68+15.74	CL	6" CLEANOUT & CAP	1066.00	1064.00	2.00	
S-13	66+69.43	RT-20.62	6" CLEANOUT & CAP	1066.00	1064.00	2.00	
S-14	68+15.57	RT-15.49	6" CLEANOUT & CAP	1066.00	1064.00	2.00	
S-15	68+23.74	RT-3.41	19X30 HERCP AE & GATE	-	1065.75	-	
S-16	69+14.97	CL	H INLET	1068.50	1066.16	2.34	LP; FP; W/3067-7004-VB

## EAST ALIGNMENT

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-20	50+22.08	LT-15.22	29X45 HERCP AE & GATE	-	1066.63	-	
S-21	50+26.96	CL	5X5 SAS	1070.83	1066.63	4.20	W/1550-0054
S-22	50+99.80	CL	4X4 SAS	1070.99	1066.74	4.25	W/1550-0054
S-22A	51+14.35	RT-27.86	18" AE & GATE	-	1067.33	-	
S-23	52+94.90	CL	4X4 SAS	1071.13	1066.91	4.22	W/1550-0054
S-24	55+32.52	CL	4X4 SAS	1073.22	1067.25	5.97	W/1550-0054
S-24A	55+32.67	RT-20.65	24" PLUG	-	1067.76	-	
S-25	56+61.57	CL	4X4 SAS	1076.95	1069.60	7.35	W/1550-0054

## SPECIFIC NOTES:

- EI GIVEN IS TOP OF PIPE
- INSTALL WEIR PLATE W/ 24" WIDE SHARP-CREST WEIR AT EI = 1064.75'; CONNECT 8" UNDERDRAIN THROUGH WEIR (SEE BID ITEM 90009)
- CUT END OF P-41A TO MATCH GRADE OF BASIN SLOPE & INSTALL GATE (PAID AS 50601)
- CORE TWO (2) SIX-INCH (6") OPENINGS ON THE UPSTREAM SIDE AT EI = 1068.20' (SEE BID ITEM 90008)

## STANDARD NOTES:

- PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.
- 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
- 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.
- 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.

## PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>WEST ALIGNMENT</b>										
P-40	S-40	S-41	1060.37	1062.50	68	66	3.15%	15"	TYPE 2	
P-41	S-41	S-41A	1063.97	1064.00	6	5	0.50%	12"	PVC	
P-42	S-41	S-42	1062.50	1062.50	18	15	0.00%	8"	PERF PVC UD	
P-43	S-42	S-43	1062.50	1062.50	83	81	0.00%	8"	PERF PVC UD	
<b>NORTHWEST ALIGNMENT</b>										
P-44	S-44	S-45	1066.09	1066.41	80	77	0.40%	19 x 30	HERCP	
P-45	S-45	S-46	1066.41	1066.60	46	44	0.40%	19 x 30	HERCP	
P-47	S-47	S-48	1066.09	1066.41	75	73	0.43%	19 x 30	HERCP	
P-48	S-48	S-49	1066.41	1066.60	45	44	0.42%	19 x 30	HERCP	
<b>SOUTH ALIGNMENT</b>										
P-6	S-6	S-7	1059.00	1060.63	374	372	0.44%	24"	TYPE 2	
P-6A	S-7	S-7A	1061.13	1063.87	22	19	12.21%	18"	TYPE 1	
P-7	S-7	S-8	1060.63	1062.03	168	164	0.83%	24"	TYPE 2	
P-8	S-8	S-9	1062.03	1062.35	57	52	0.56%	24"	TYPE 2	
P-9	S-9	S-10	1063.10	1064.00	45	42	2.01%	15"	TYPE 1	
P-10	S-10	S-11	1064.00	1064.00	32	31	0.00%	8"	PERF PVC UD	
P-11	S-11	S-12	1064.00	1064.00	138	138	0.00%	8"	PERF PVC UD	
P-13	S-10	S-13	1064.00	1064.00	32	31	0.00%	8"	PERF PVC UD	
P-14	S-13	S-14	1064.00	1064.00	139	139	0.00%	8"	PERF PVC UD	
P-15	S-15	S-16	1065.75	1066.16	91	90	0.45%	19 x 30	HERCP	
<b>EAST ALIGNMENT</b>										
P-20	S-20	S-21	1066.63	1066.64	16	13	0.05%	29 X 45	HERCP	
P-21	S-21	S-22	1066.64	1066.74	73	68	0.13%	29 X 45	HERCP	
P-21A	S-22	S-22A	1067.30	1067.33	31	29	0.10%	18"	TYPE 1	
P-22	S-22	S-23	1066.74	1066.91	195	191	0.09%	29 X 45	HERCP	
P-23	S-23	S-24	1067.01	1067.25	238	234	0.10%	29 X 45	HERCP	
P-23A	S-24	S-24A	1067.66	1067.76	21	19	0.50%	24"	TYPE 1	
P-24	S-24	S-25	1067.66	1069.60	129	125	1.50%	24"	TYPE 1	

- PAID AS CLEANOUT; INSTALL GRATE INSTEAD OF CAP

- ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.
- 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 JOJO O'BRIEN OF CITY ENGINEERING AT (608) 266-9721 FOR STORM SEWER PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO JOBRIEN@CITYOFMADISON.COM.
- FOR SWM PRECAST APPROVALS CONTACT PHIL GAEBLER AT (608) 266-4059 OR EMAIL SWM SHOP DRAWINGS TO PGAEBLER@CITYOFMADISON.COM



# STORM SEWER SCHEDULE

SOUTH POINT SCALE AND FUELING	SHEET NO.
PROJECT NO. 12444	U-9
STORM SEWER SCHEDULE	
CITY OF MADISON	

## STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>SOUTH ALIGNMENT</b>					
RS-1		63+75.05	LT-17.69	18" APRON END	(1)
RS-2		65+51.16	RT-12.03	12" APRON END	(1)
RS-3		66+04.25	RT-4.77	2X3 INLET	
RS-4		66+58.65	RT-11.04	2X3 INLET	
<b>EAST ALIGNMENT</b>					
RS-5		50+31.91	RT-9.61	18" APRON END	(1)
RS-6		51+50.27	RT-7.81	18" APRON END	(1)

## STORM PIPE REMOVALS

PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID REM (FT)	SIZE	TYPE	NOTES	TYPE	NOTES
<b>SOUTH ALIGNMENT</b>									
RP-1	RS-2	RS-3	57	57	12"	RCP			
RP-2	RS-3	RS-4	57	57	12"	RCP			
RP-3	STA 68+21.10, RT-0.23	STA 68+71.11, RT-16.02	52	34	18"	RCP			
<b>EAST ALIGNMENT</b>									
RP-4	RS-5	RS-6	89	89	18"	RCP			

## STORM STRUCTURE ADJUSTMENT

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>YARD DR</b>					
ADJ-1	IN1657-001	100+84.60	RT-19.98	5X5 INLET	INSTALL R-1878-B7G
ADJ-2	IN1657-002	100+84.37	LT-21.00	5X5 INLET	INSTALL R-1878-B7G

## ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	EASTING	NORTHING
<b>YARD DR</b>					
ULO1	102+24.87	LT-15.20	10" WATER	775154.6263	475966.73
ULO2	102+31.00	LT-15.20	10" WATER	775158.235	475961.775
<b>EAST ALIGNMENT</b>					
ULO3	50+42.44	LT-10.00	4" FORCE MAIN	775472.0948	475279.075

## SPECIFIC NOTES:

(1) SALVAGE IF POSSIBLE; REMOVAL PAID AS INCIDENTAL TO PIPE REMOVAL

## STANDARD NOTES:

- PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.
- 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
- 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.
- 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 FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.

- 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 DAINEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.

# SANITARY SEWER SCHEDULE

SOUTH POINT SCALE AND FUELING

SHEET NO.

PROJECT NO. 12444

U-10

SANITARY SEWER SCHEDULE

CITY OF MADISON

## PROPOSED SANITARY

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
<b>424 SOUTH POINT RD</b>						
SAS#1	50+32.99	LT-10.00	1070.82	1055.40	15.42	(1)(4)
SAS#2	53+00.54	LT-10.81	1070.78	1060.34	10.44	(4)
SAS#3	55+29.45	LT-9.13	1073.15	1064.38	8.77	
SAS#4	56+69.65	LT-7.44	1076.90	1066.49	10.41	
LAT	55.25.15	LT-38.78	-	1065.48	-	(2)

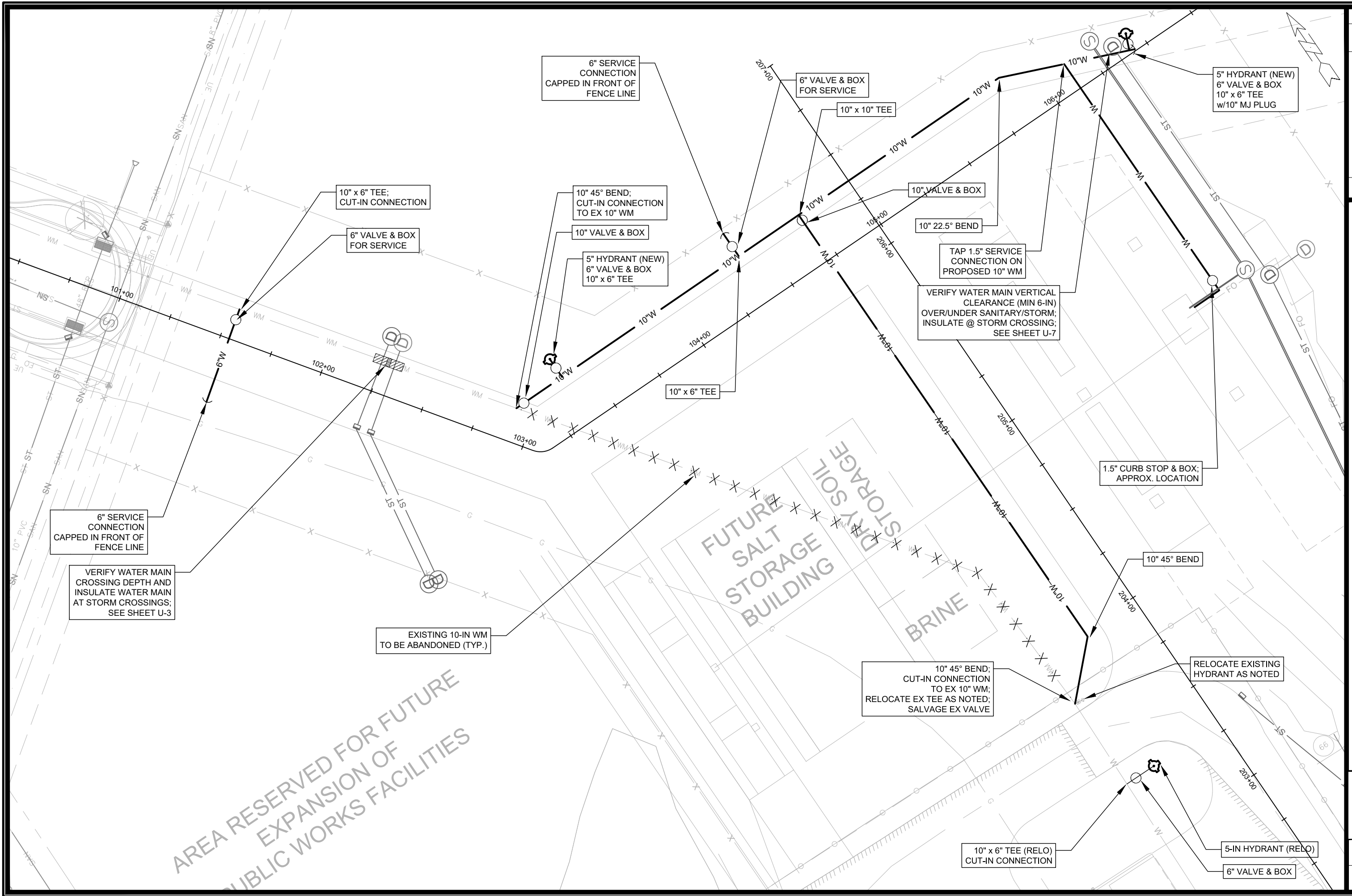
## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>424 SOUTH POINT RD</b>								
SAS#1	SAS#2	1055.72	1060.34	269	1.72%	8"	SDR-26	(3)
SAS#2	SAS#3	1060.44	1064.38	229	1.72%	8"	SDR-35	
SAS#3	SAS#4	1064.48	1066.49	139	1.45%	8"	SDR-35	
SAS#3	LAT	1064.88	1065.48	30	2.00%	4"	SDR-35	

### NOTES:

- (1) INSTALL EXTERNAL JOINT SEAL IN CONFORMANCE WITH SDD 5.7.2
- (2) INSTALL LATERAL BACKFLOW PREVENTOR (BACKWATER VALVE)
- (3) MAY BE SUBSTITUTED WITH AWWA DR18 (C900) WITH C900 JOINTS IF SDR-26 IS NOT AVAILABLE
- (4) INSTALL INTERNAL CHIMNEY SEAL IN CONFORMANCE WITH SDD 5.7.17

- ALL STRUCTURES SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL. CONTACT DAINEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.



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EXPANSION OF  
PUBLIC WORKS FACILITIES

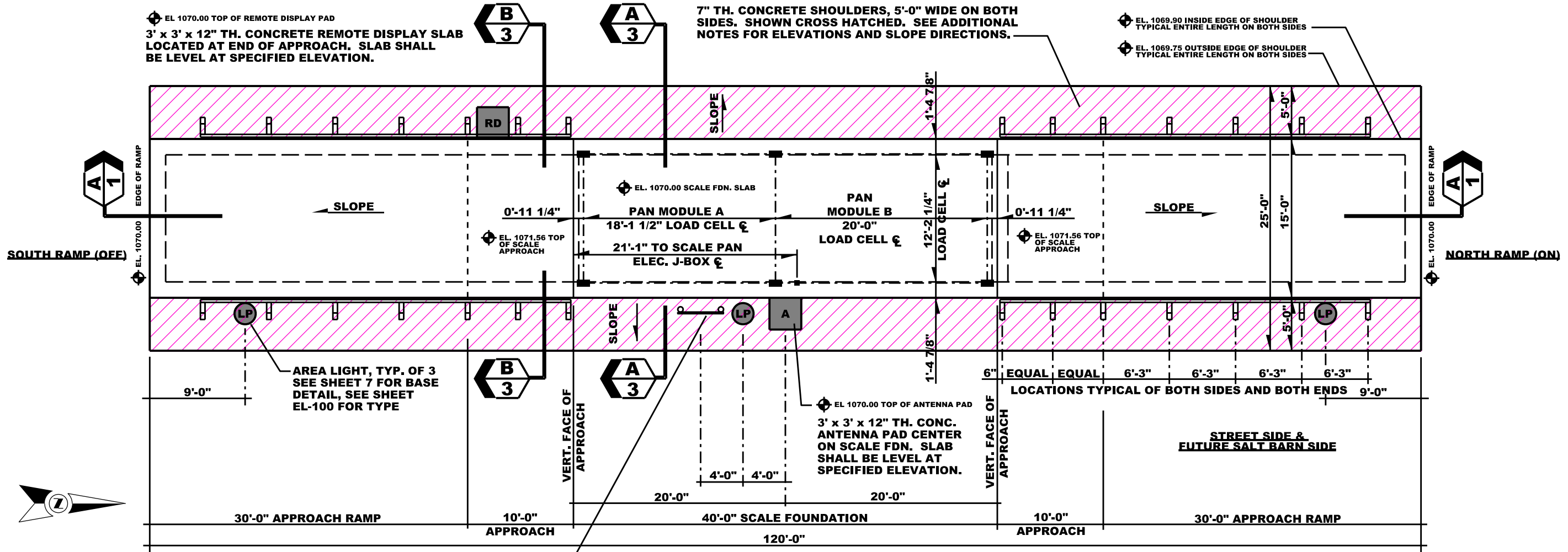
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12444  
MADISON, WI  
8606  
CONTRACT NO:

WATER MAINS AND SERVICES (PLAN ONLY)  
SOUTH POINT SCALE AND FUELING  
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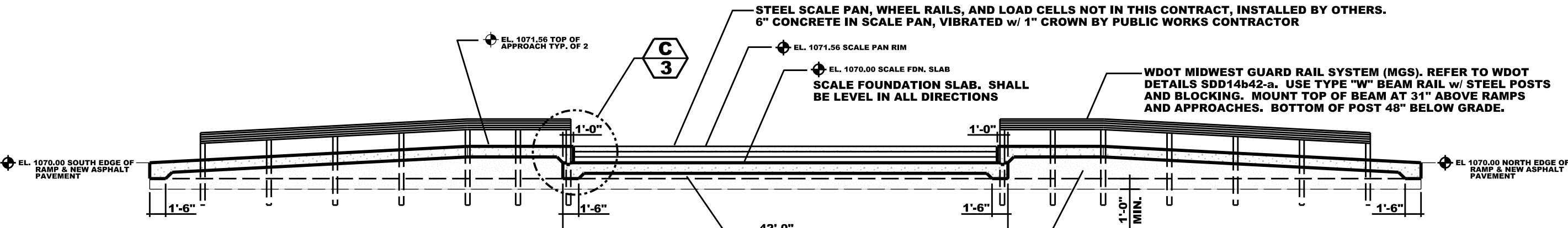


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W-1



**SCALE CONTROL PANEL:**  
 BOLLARD B-2, 2 EACH - 3" DIA. STEEL PIPE  
 UNISTRUT AS REQUIRED FOR MOUNTING  
 3/4" EXTERIOR GRADE PLYWOOD BACKER  
 BOARD. MOUNT PC CABINET (PROVIDED  
 BY SCALE VENDOR), AND WP-GFCI  
 COURTESY OUTLET TO BACKER BOARD.

**NOTE: ANTENNA SIDE IS "STREET SIDE"**  
**ENLARGED SCALE PLAN VIEW**  
 SCALE 11x17 PRINT: 1" = 10"



**SELECT FILL NOTE FOR ALL DETAILS, PER CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS:**  
 1. SELECT FILL GRADATION # 2 SHALL BE 1-1/4" UNWASHED CRUSHED STONE  
 2. SELECT FILL GRADATION #5 SHALL BE BREAKER RUN BASE

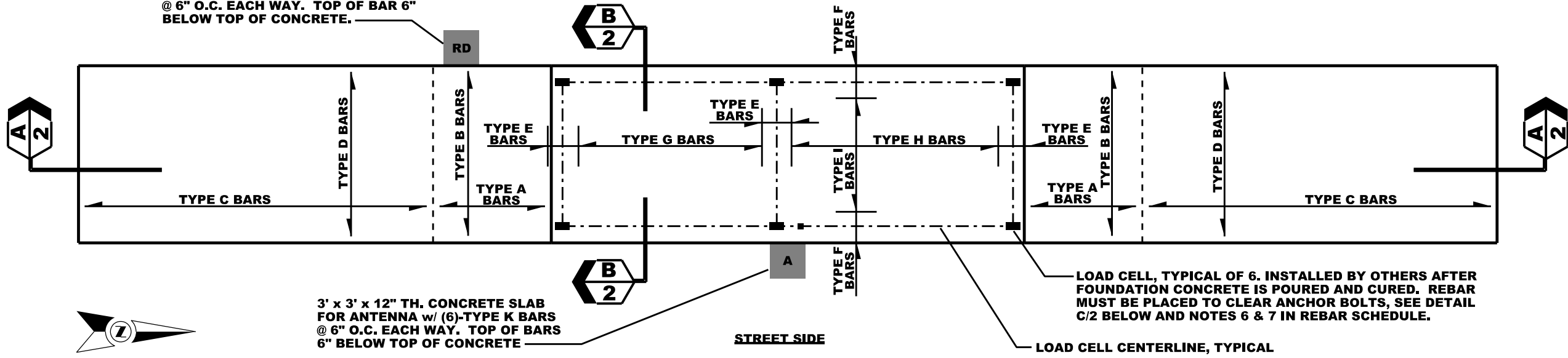
SELECT FILL GRADE #2 AS NEEDED  
 TO ACHIEVE BOTTOM OF CONCRETE  
 COMPACTED IN 6" LIFTS

**BASE PREPARATION:**  
 - REMOVE EXISTING SOILS TO 1'-0" BELOW BOTTOM OF SLAB  
 FOUNDATION  
 - COMPACT EXCAVATION AND PROOF ROLL  
 - INSTALL SELECT FILL GRADE #5 AND COMPACT IN 6" LIFTS  
 (MINIMUM OF ONE (1)-6" LIFT)  
 - INSTALL SELECT FILL GRADE #2 AND COMPACT IN 6" LIFTS  
 (MINIMUM OF ONE (1)-6" LIFT)

**A-A/1 SECTION THRU FDN SLAB AND APPROACHES**

3' x 3' x 12" TH. CONCRETE SLAB FOR REMOTE DISPLAY w/ (6)-TYPE K BARS @ 6" O.C. EACH WAY. TOP OF BAR 6" BELOW TOP OF CONCRETE.

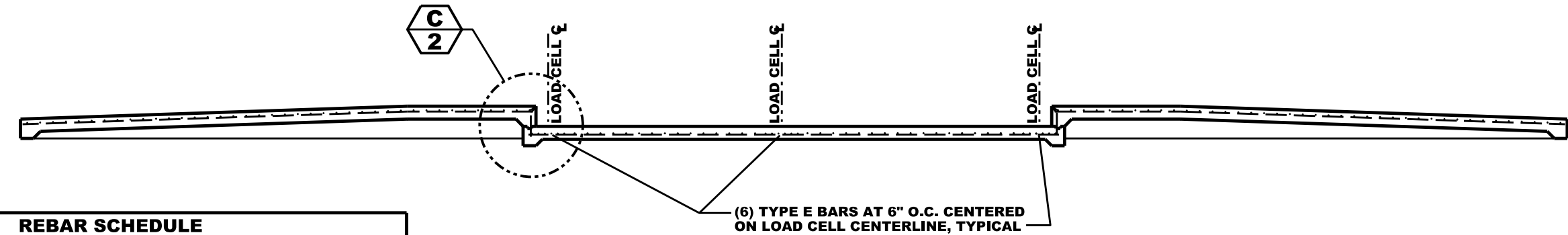
NON STREET SIDE



3' x 3' x 12" TH. CONCRETE SLAB FOR ANTENNA w/ (6)-TYPE K BARS @ 6" O.C. EACH WAY. TOP OF BARS 6" BELOW TOP OF CONCRETE

LOAD CELL, TYPICAL OF 6. INSTALLED BY OTHERS AFTER FOUNDATION CONCRETE IS POURED AND CURED. REBAR MUST BE PLACED TO CLEAR ANCHOR BOLTS, SEE DETAIL C/2 BELOW AND NOTES 6 & 7 IN REBAR SCHEDULE.

**REINFORCING BAR PLAN**



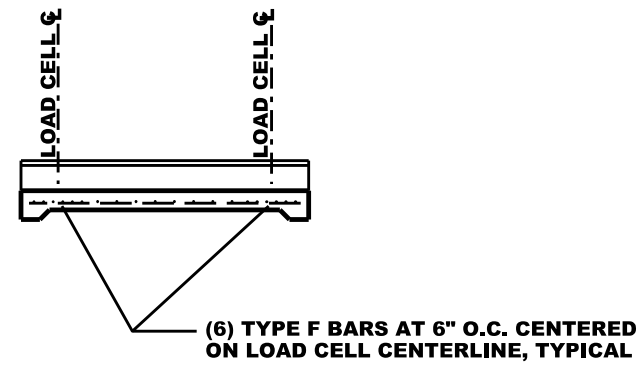
(6) TYPE E BARS AT 6" O.C. CENTERED ON LOAD CELL CENTERLINE, TYPICAL

**A-A/2 SECTION DETAIL**

**REBAR SCHEDULE**

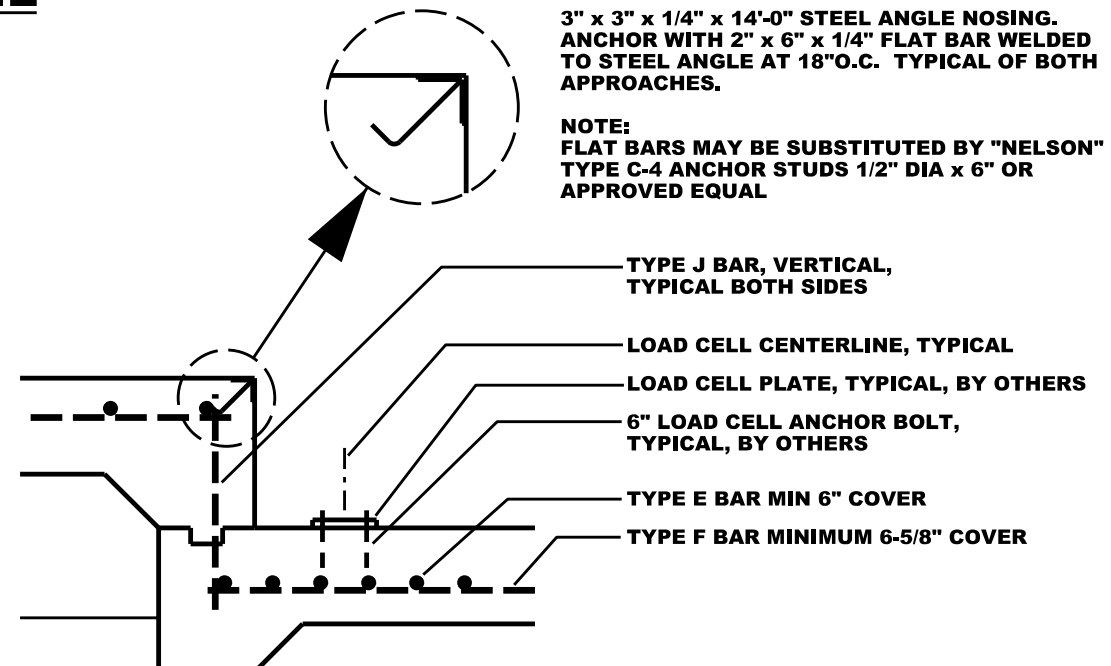
ID NO.	SIZE	SPACING	REMARKS
A	# 5	@ 12" O.C.	NOTE 5
B	# 5	@ 12" O.C.	NOTE 5
C	# 5	@ 12" O.C.	NOTE 5
D	# 5	@ 12" O.C.	NOTE 5
E	# 5	@ 6" O.C.	NOTE 6 & 7
F	# 5	@ 6" O.C.	NOTE 6 & 8
G	# 5	@ 12" O.C.	NOTE 5
H	# 5	@ 12" O.C.	NOTE 5
I	# 5	@ 12" O.C.	NOTE 5
J	# 5	@ 12" O.C.	NOTE 5
K	# 5	@ 6" O.C.	EACH WAY

1. REINFORCING STEEL SHALL BE DEFORMED BARS MEETING ASTM A615 GRADE 60.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITY AND LENGTHS OF REBAR REQUIRED FOR A COMPLETE INSTALLATION.
3. CONTRACTOR SHALL LAP REBARS A MINIMUM OF 40 BAR DIAMETERS.
4. ALL REBAR SHALL BE TIED PRIOR TO CONCRETE PLACEMENT.
5. MINIMUM COVER ON REBAR SHALL BE 2" UNLESS NOTED OTHERWISE.
6. CENTER BAR SPACING ON LOAD CELL CENTERLINE.
7. MINIMUM COVER ON REBAR SHALL BE 6".
8. MINIMUM COVER ON REBAR SHALL BE 6-5/8".



(6) TYPE F BARS AT 6" O.C. CENTERED ON LOAD CELL CENTERLINE, TYPICAL

**B-B/2 SECTION DETAIL**



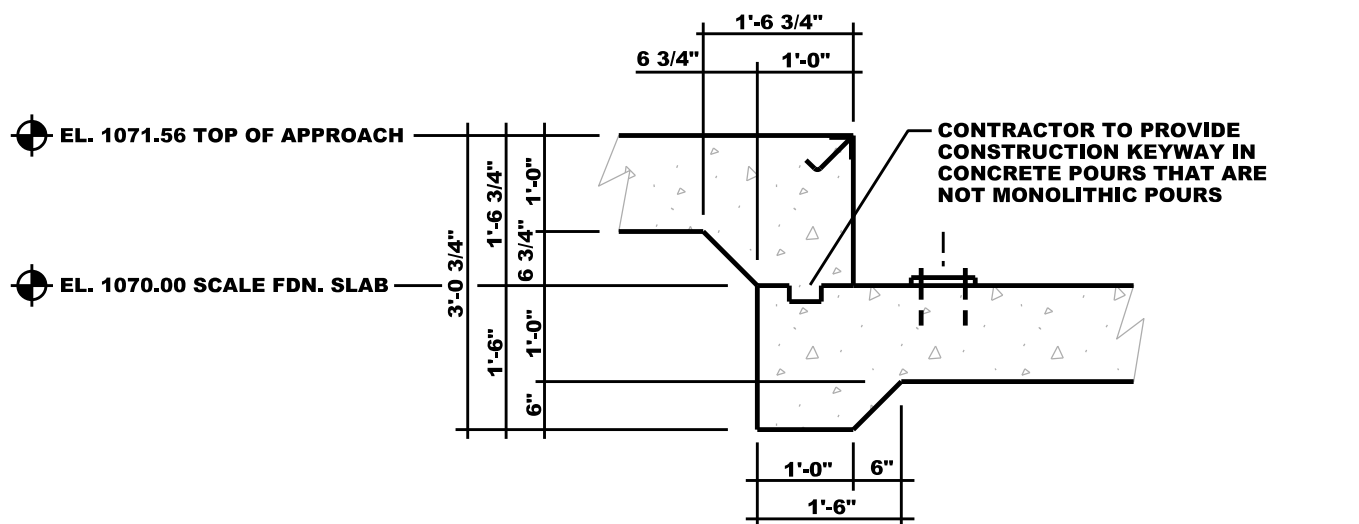
3" x 3" x 1/4" x 14'-0" STEEL ANGLE NOSING. ANCHOR WITH 2" x 6" x 1/4" FLAT BAR WELDED TO STEEL ANGLE AT 18" O.C. TYPICAL OF BOTH APPROACHES.

NOTE: FLAT BARS MAY BE SUBSTITUTED BY "NELSON" TYPE C-4 ANCHOR STUDS 1/2" DIA x 6" OR APPROVED EQUAL

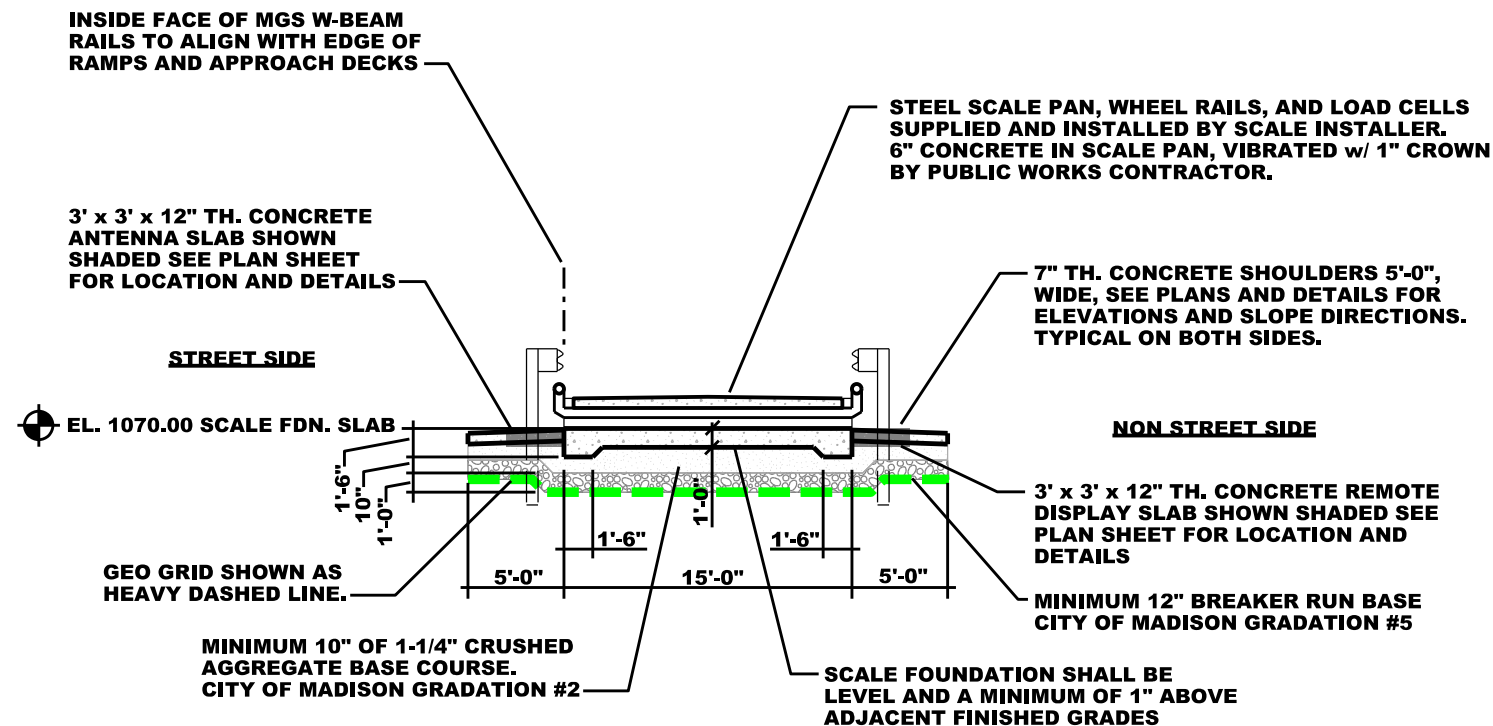
**C/2 ENLARGED DETAIL**

**GENERAL CONSTRUCTION NOTES:**

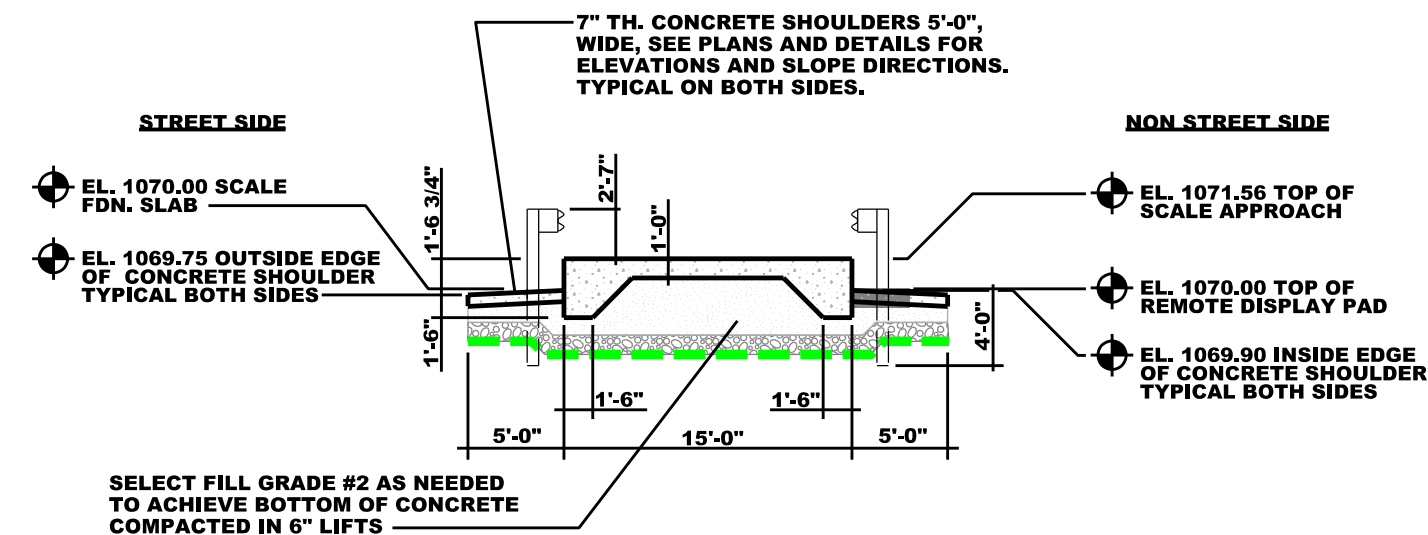
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE PREPARATION; INSTALLATION OF ALL PAVEMENTS, MGS GUARD RAILS; ELECTRICAL ROUGH-IN; SITE CLEANUP; AND OTHER MISCELLANEOUS WORK ASSOCIATED WITH COMPLETING THE INTENT OF THIS CONTRACT.
2. THE CONTRACTOR SHALL REVIEW BID ITEM 20101 EXCAVATION CUT IN THE SPECIAL PROVISIONS FOR INFORMATION REGARDING UNDERCUT.
3. THE SCALE INSTALLER SHALL BE RESPONSIBLE FOR THE DELIVERY AND INSTALLATION OF ALL SCALE EQUIPMENT AFTER THE CONTRACTOR HAS COMPLETED HIS/HER PORTION OF THE SITE PREPARATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND POURING THE SCALE PAN CONCRETE AFTER THE INSTALLATION OF ALL SCALE EQUIPMENT IS COMPLETED. THE CONTRACTOR SHALL VERIFY ALL CONCRETE AND INSTALLATION REQUIREMENTS WITH THE SCALE INSTALLER PRIOR TO ORDERING THE CONCRETE.
5. ALL CONCRETE SHALL BE  $f_c = 3000$  psi @ 28 DAYS STRENGTH. THE CONTRACTOR SHALL SCHEDULE ALL SLUMP AND CYLINDER TESTING WITH THE SOILS ENGINEER UNDER CONTRACT WITH CITY ENGINEERING.
6. ALL CONCRETE SHALL HAVE A BROOM SWEPT FINISH.
7. SEE REBAR SCHEDULE ON SHEET 2 FOR SPECIFICATIONS ON REINFORCING STEEL. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES AND LENGTHS REQUIRED INCLUDING OVERLAPS.
8. THE CITY PROJECT MANAGER SHALL REVIEW ALL REBAR PLACEMENT PRIOR TO EACH CONCRETE POUR. THE CONTRACTOR SHALL PROVIDE THE CPM WITH A 2 WORKING DAY NOTICE BEFORE NEEDING REVIEW.
9. THE CONTRACTOR SHALL COMPACT ALL GRANULAR FILL WITH A VIBRATORY TYPE DEVICE TO 95% MAXIMUM DRY DENSITY. COMPACTION WITH A BACKHOE BUCKET (RAMMING) SHALL NOT BE PERMITTED. THE CONTRACTOR SHALL SCHEDULE ALL COMPACTION TESTING WITH THE SOILS ENGINEER UNDER CONTRACT WITH CITY ENGINEERING.
10. AT THE DISCRETION OF THE CONTRACTOR A MONOLITHIC POUR OF THE SCALE FOUNDATION SLAB, RAMPS AND APPROACHES SHALL BE ALLOWED. SEE EXPANSION JOINT DETAILS ON VARIOUS SHEETS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND INSTALLING ALL CONTROL JOINTS.
11. THE CONTRACTOR SHALL PROVIDE 1/2" EXPANSION JOINT FILLER AND SEAL ALL CONCRETE JOINTS ADJACENT TO SCALE FOUNDATIONS/RAMPS. JOINT FILLER AND SEALANT SHALL BE AS PER CITY STANDARD SPECIFICATION FOR PUBLIC WORKS SECTION 303.2(d) AND THIS CONTRACTS SPECIAL PROVISIONS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND INSTALLING ALL EXPANSION JOINTS AND CONTROL JOINTS ON CONCRETE SHOULDERS.



**C/3 ENLARGED SECTION THRU SLAB AT APPROACH**



**A-A/3 SECTION THRU FOUNDATION SLAB**



**B-B/3 SECTION THRU APPROACH**

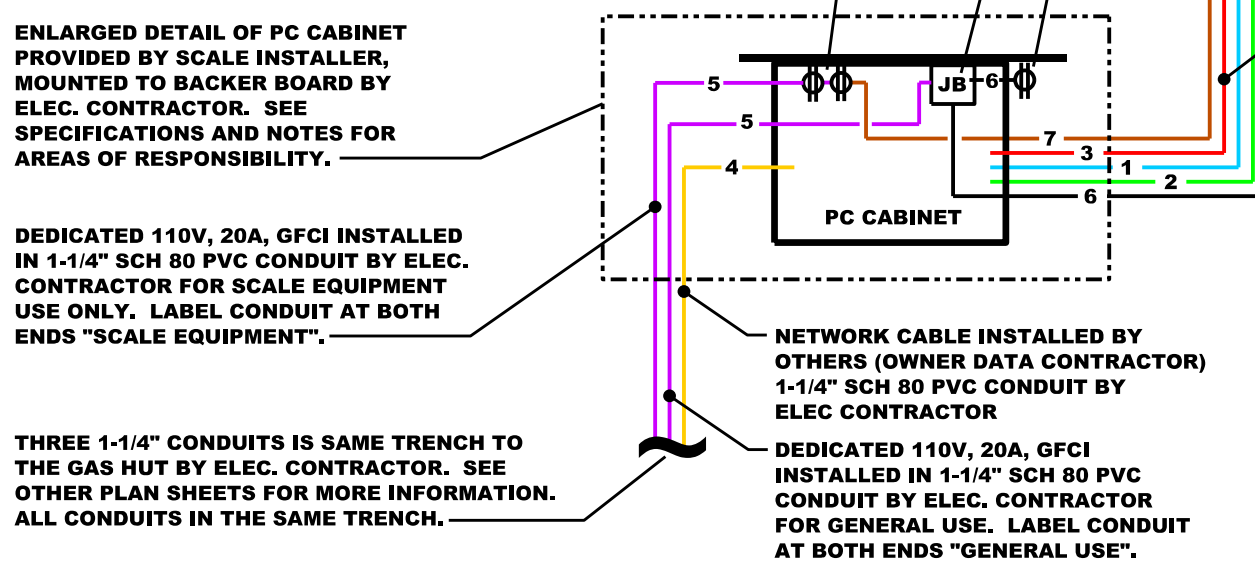
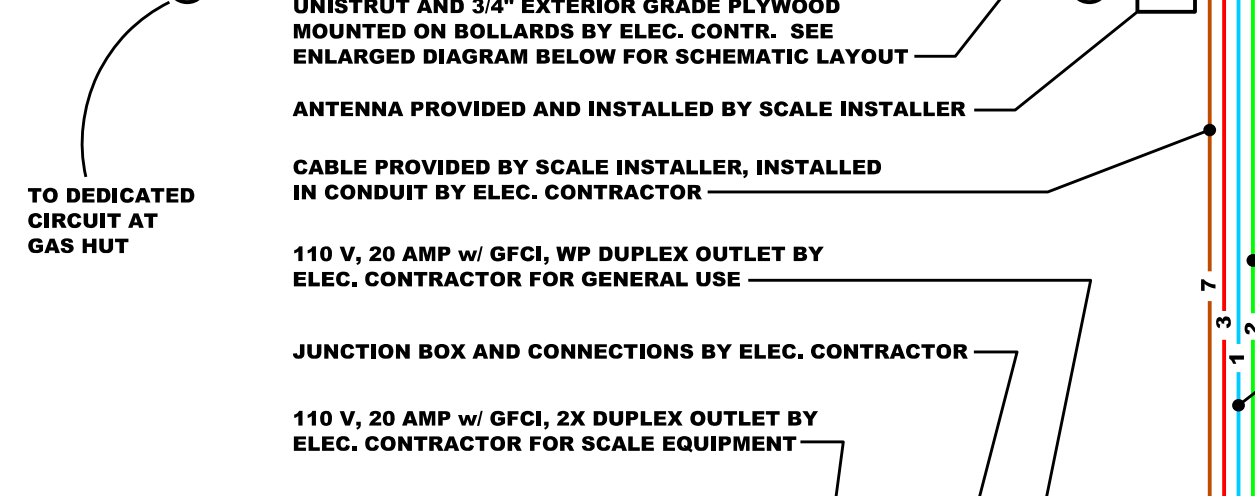
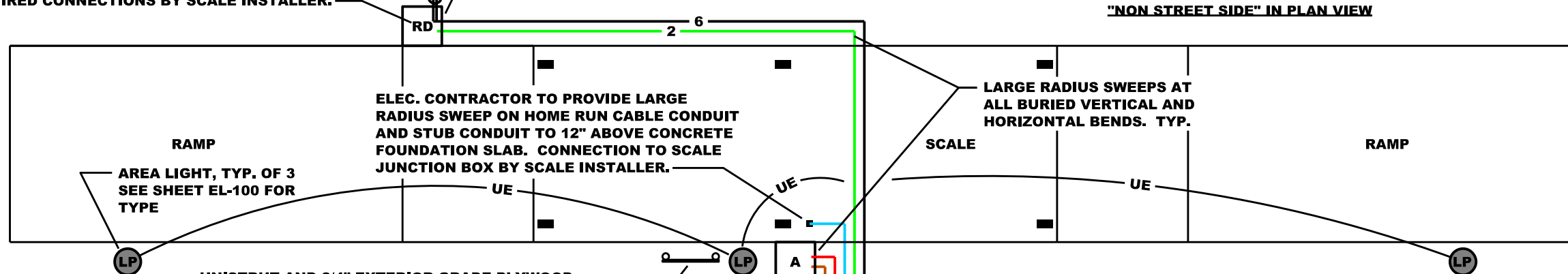
110 V, 20 AMP w/ GFCI, W.P. OUTLET BY ELEC. CONTRACTOR FOR GENERAL USE MOUNT OUTLET TO POLE. POLE BY SCALE INSTALLER

REMOTE DISPLAY PROVIDED, INSTALLED, AND WIRED CONNECTIONS BY SCALE INSTALLER.

CONDUITS TO HAVE LARGE RADIUS SWEEPS. TERMINATE 12" ABOVE SLAB.

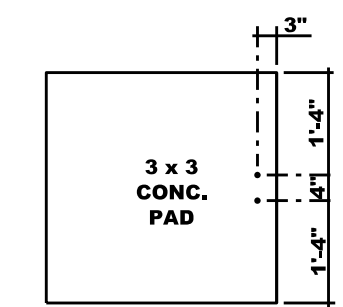
**LEGEND:**

- A ANTENNA
- RD REMOTE DISPLAY
- PC PC ENCLOSURE
- JB JUNCTION BOX
- 1 HOME RUN
- 2 COMMUNICATION WIRE
- 3 ANTENNA WIRE
- 4 NETWORK CABLE
- 5 DEDICATED A/C CIRCUIT
- 6 A/C POWER, DEDICATED FOR GENERAL USE
- 7 A/C POWER, DEDICATED FOR SCALE EQUIP.



THIS IS "STREET SIDE" IN PLAN VIEW

- 110V, 20A A/C POWER FOR GENERAL USE BY THE ELEC. CONTRACTOR.
- 22 GA., 2 PAIR, COMMUNICATION WIRE PROVIDED BY THE SCALE INSTALLER. INSTALLED BY THE ELEC. CONTRACTOR.
- HOME RUN CABLE, PROVIDED BY THE SCALE INSTALLER, INSTALLED BY THE ELEC. CONTRACTOR, EQUIP. CONNECTIONS BY SCALE THE INSTALLER.
- ANTENNA CABLE, PROVIDED BY SCALE INSTALLER, INSTALLED IN CONDUIT BY ELEC. CONTRACTOR, EQUIP. CONNECTIONS BY SCALE INSTALLER.



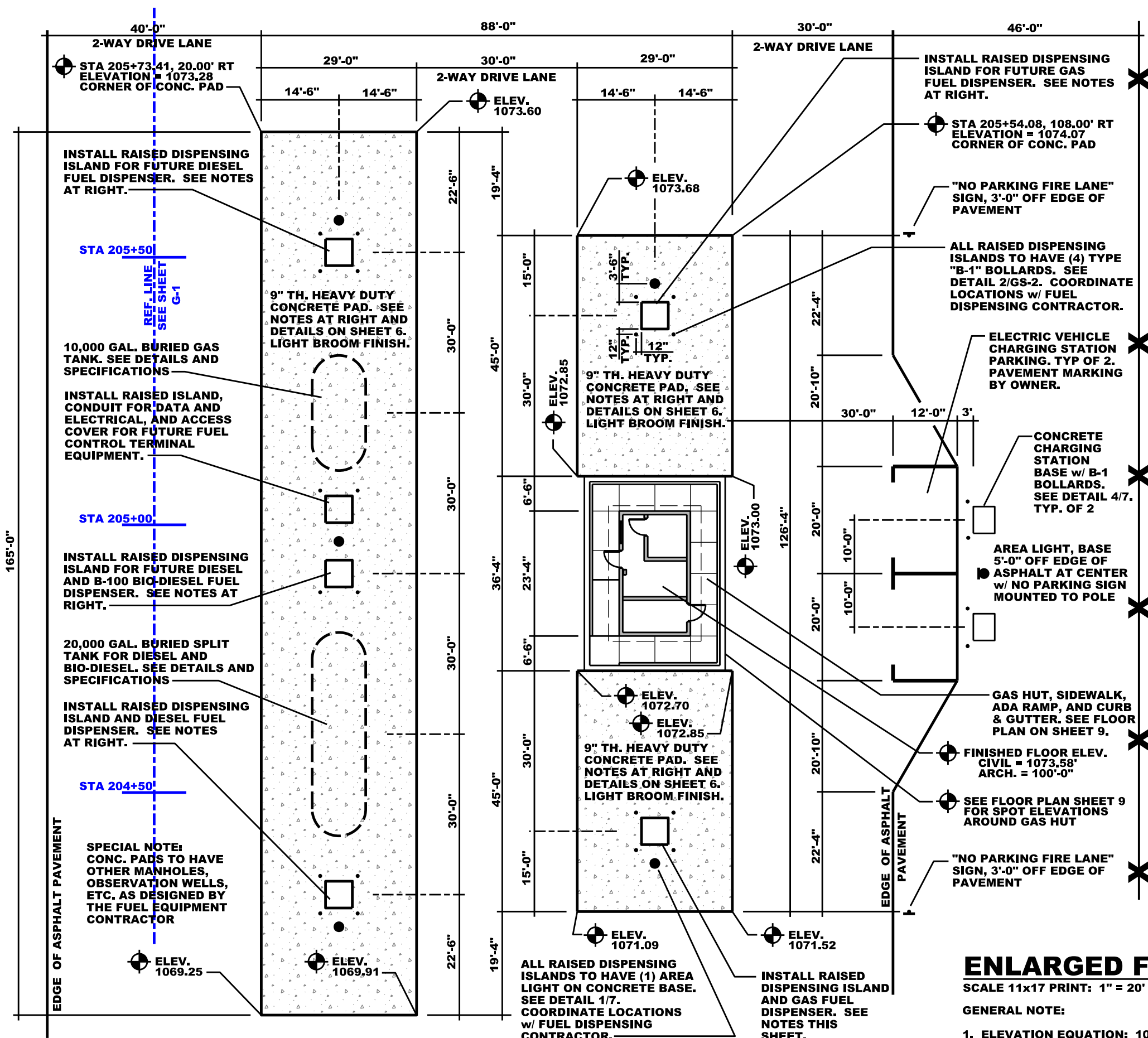
LOCATE CONDUIT STUB-UPS IN ANTENNA AND DISPLAY SLABS AS SHOWN. ORIENTATE SCHEMATIC DETAIL TO SITE LOCATIONS.

**GENERAL ELECTRICAL NOTES:**

1. THIS SHEET IS SCHEMATICALLY DRAWN FOR DETAIL PURPOSES ONLY REVIEW SITE PLANS AND ELECTRICAL PLANS FOR MORE INFORMATION.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, BOXES, OUTLETS, COVERS, BREAKERS, WIRE PULLS, AND OTHER RELATED MATERIALS NECESSARY FOR A CODE COMPLIANT INSTALLATION DEPICTED IN THIS SCHEMATIC UNLESS NOTED AS FURNISHED AND INSTALLED BY OTHERS.
3. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL OUTLET AND CONNECTION LOCATIONS AND OTHER RELATED INSTALLATION REQUIREMENTS WITH THE SCALE INSTALLER PRIOR TO BEGINNING ANY ROUGH-IN.
4. SEE SPECIFIC NOTES IN THE SCHEMATIC PLAN FOR CONNECTION RESPONSIBILITIES.
5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL MATERIALS FURNISHED BY THE SCALE INSTALLER TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR ARE COMPLETE, NEW, AND IN SERVICEABLE CONDITION PRIOR TO INSTALLATION.
6. THE SCALE INSTALLER SHALL FURNISH, INSTALL, AND CONNECT THE SCALE PAN JUNCTION BOX, REMOTE DISPLAY, ANTENNA, AND ALL EQUIPMENT INSIDE THE PC ENCLOSURE. THIS SHALL INCLUDE ALL EQUIPMENT WIRING BETWEEN LOAD SENSORS AND OTHER MISCELLANEOUS EQUIPMENT WIRING NOT SPECIFIED AS BEING INSTALLED BY THE ELECTRICAL CONTRACTOR.
7. ALL CONDUIT SHALL BE BURIED A MINIMUM OF 2'-0" BELOW GRADE IN THE UTILITY TRENCH. ELECTRICAL/DATA CAUTION TAPE SHALL BE PLACED IN THE TRENCH 1'-0" ABOVE EACH CONDUIT DURING TRENCH BACKFILL. COMPACT BACKFILL IN 6" LIFTS.
8. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING ALL HOLES THROUGH BUILDING MATERIALS AS NEEDED TO COMPLETE THE ELECTRICAL INSTALLATIONS DEPICTED IN THE PLANS. ALL HOLES SHALL BE SEALED AND WATER PROOF AFTER CONDUIT HAS BEEN INSTALLED. SEALANT SHALL BE COLOR MATCHED TO ADJACENT MATERIALS. ALL HOLES AND PATCH WORK SHALL HAVE A NEAT APPEARANCE WHEN COMPLETED.
9. ALL ELECTRICAL CONDUIT SHALL BE A MINIMUM OF 1" DIAMETER UNLESS OTHERWISE IN PLANS AND DETAILS OR REQUIRED BY CODE.
10. SIGNAL BOOSTER PROVIDED AND INSTALLED IN THE PC ENCLOSURE BY THE SCALE INSTALLER IF REQUIRED FOR BOOSTING DATA SIGNAL.

**ELECTRIC SCHEMATIC**

**CONDUIT IN CONC. PAD LOCATION DETAIL**



**FUEL POINT CONSTRUCTION NOTES:**

1. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS, DETAILS, AND SPECIFICATIONS ASSOCIATED WITH THIS CONTRACT SO THEY HAVE A FULL UNDERSTANDING OF THE CONTRACT AND SCOPE OF WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF MADISON DURING THE BIDDING PHASE.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE RESPONSIBILITIES OF ALL WORK INVOLVED TO COMPLETE THIS CONTRACT UNLESS NOTED AS WORK BY OTHERS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO DEMOLITION, EXCAVATION, TRENCHING, BACKFILL, AND ANY OTHER WORK THAT COULD CROSS AREAS OF RESPONSIBILITY.
3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING WITH A STATE OF WISCONSIN CERTIFIED FUEL TANK AND DISPENSING INSTALLATION CONTRACTOR (HEREAFTER REFERRED TO AS THE "FUEL EQUIPMENT CONTRACTOR").
4. THE FUEL EQUIPMENT CONTRACTOR SHALL REVIEW SPECIFICATION 23 10 00 IN EXHIBIT C OF THE CONTRACT DOCUMENTS FOR A COMPLETE DESCRIPTION OF ALL WORK AND EQUIPMENT DESCRIPTIONS REQUIRED FOR A COMPLETE CODE COMPLIANT INSTALLATION OF ALL FUEL EQUIPMENT AND ALL ROUGH-IN FOR FUTURE EXPANSION OF FUEL EQUIPMENT.
5. ALL PAVEMENT TYPES SHALL BE AS INDICATED IN THE SPECIAL PROVISIONS THIS SHALL INCLUDE ANY ADDITIONAL SPECIFICATIONS PROVIDED WITH THE CONTRACT DOCUMENTS. THICKNESSES SHALL BE AS NOTED IN THE PLANS AND DETAILS.
6. REFER TO OTHER SHEETS REFERENCED FOR BUILDING CONSTRUCTION, STRUCTURAL, AND MECHANICAL INFORMATION.
7. ALL RAISED FUEL DISPENSING ISLANDS (TOTAL OF 6) SHALL BE INSTALLED UNDER THIS CONTRACT. ISLANDS DESIGNATED FOR FUTURE USE SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: RAISED CONCRETE ISLAND, MANHOLE, CONDUITS, PIPING, CAPS, VALVES, AND MAN HOLE COVER. RAISED ISLAND LENGTH AND WIDTH ARE THE RESPONSIBILITY OF THE FUEL EQUIPMENT CONTRACTOR. RAISED ISLAND CURB SHALL BE CITY OF MADISON TYPE D, SEE DETAIL 3/7.
8. THE CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXPANSION AND CONTRACTION JOINTS. PROVIDE A SHOP DRAWING OF ALL PROPOSED JOINTS A MINIMUM OF 2 WEEKS PRIOR TO THE FIRST PAD POUR.

**ENLARGED FUEL POINT SITE PLAN**

SCALE 11x17 PRINT: 1" = 20'

**GENERAL NOTE:**

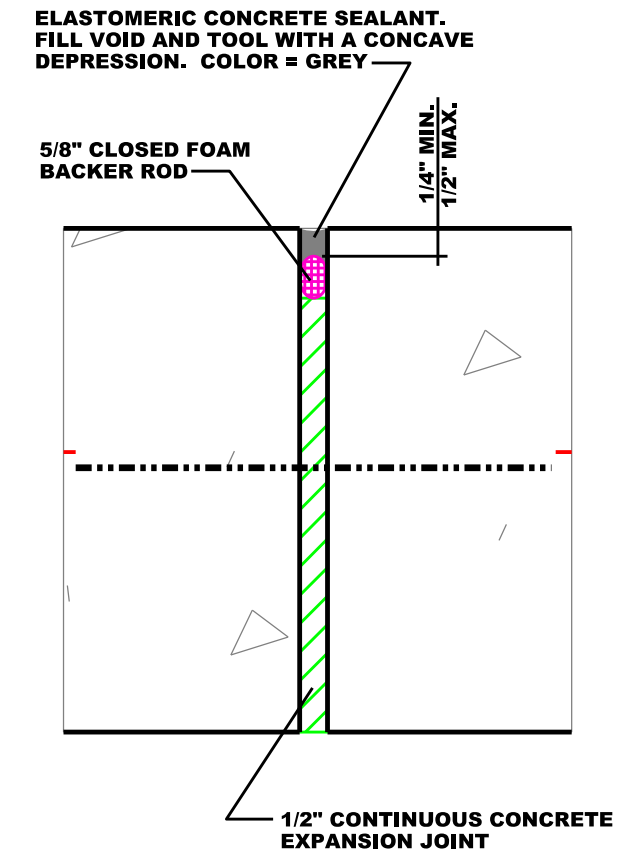
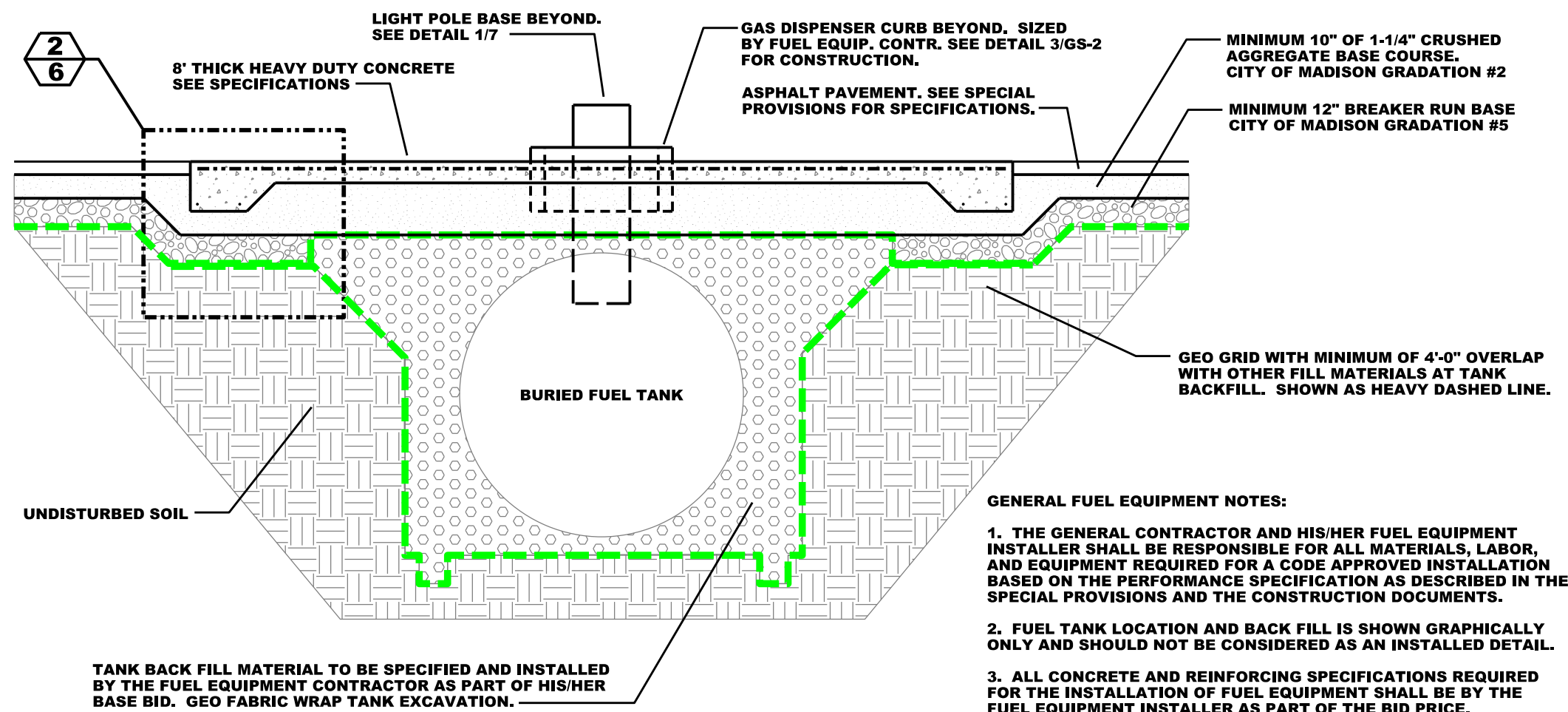
1. ELEVATION EQUATION: 100'-0" ARCHITECTURAL = 1073.58' CIVIL



**CITY OF MADISON - ENGINEERING**  
**CONTRACT 8606**  
**SOUTH POINT SCALE AND FUELING**

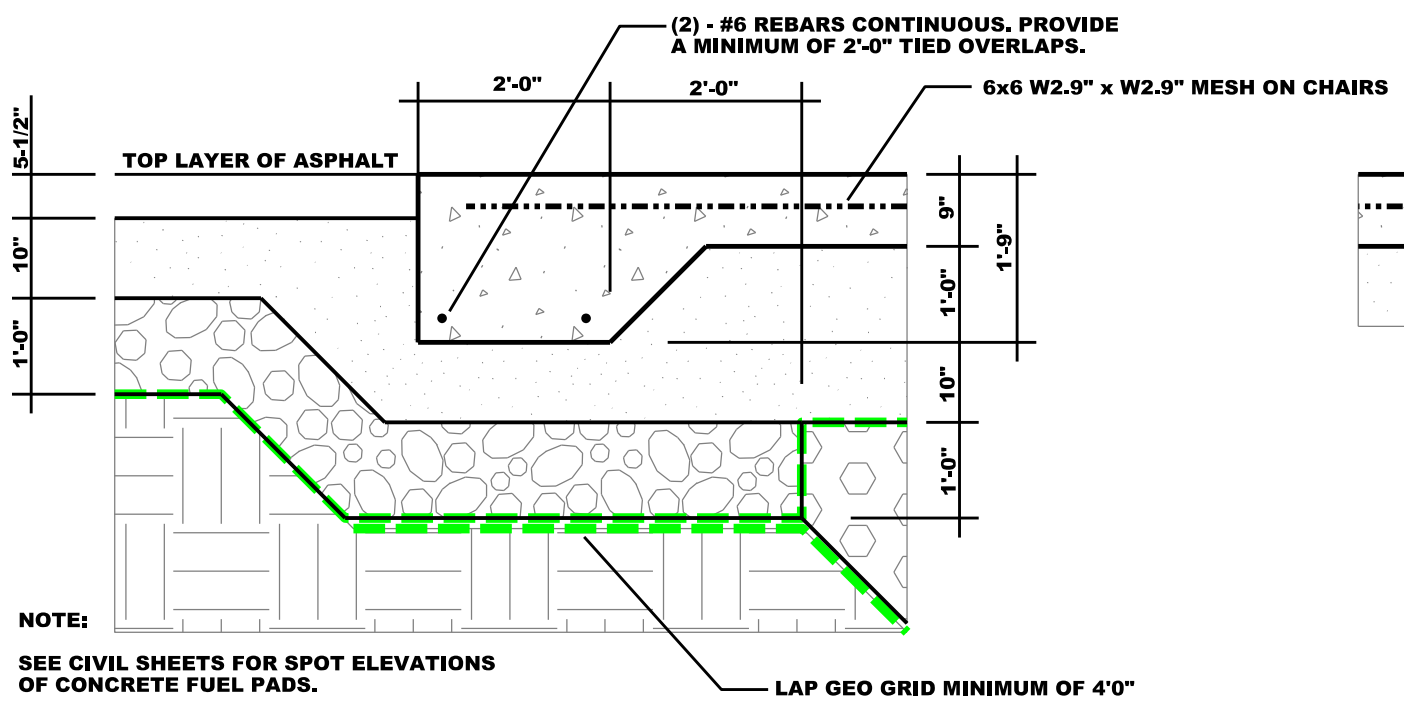
**FUEL POINT ENLARGED PLAN**  
**AND SPECIFICATIONS**





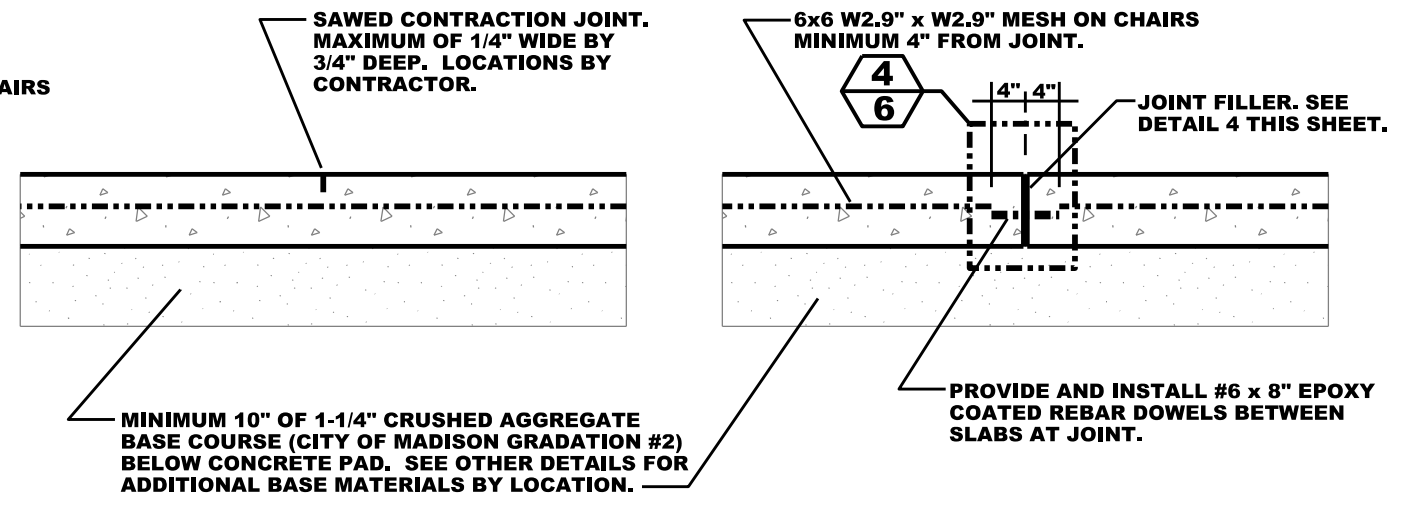
**1/6 CROSS SECTION THRU CONCRETE FUEL POINT PAVEMENT**

SCALE 11x17 PRINT: 1" = 5'



**4/6 EXPANSION JOINT DETAIL**

NOT TO SCALE



**SAWED CONTRACTION JOINT**

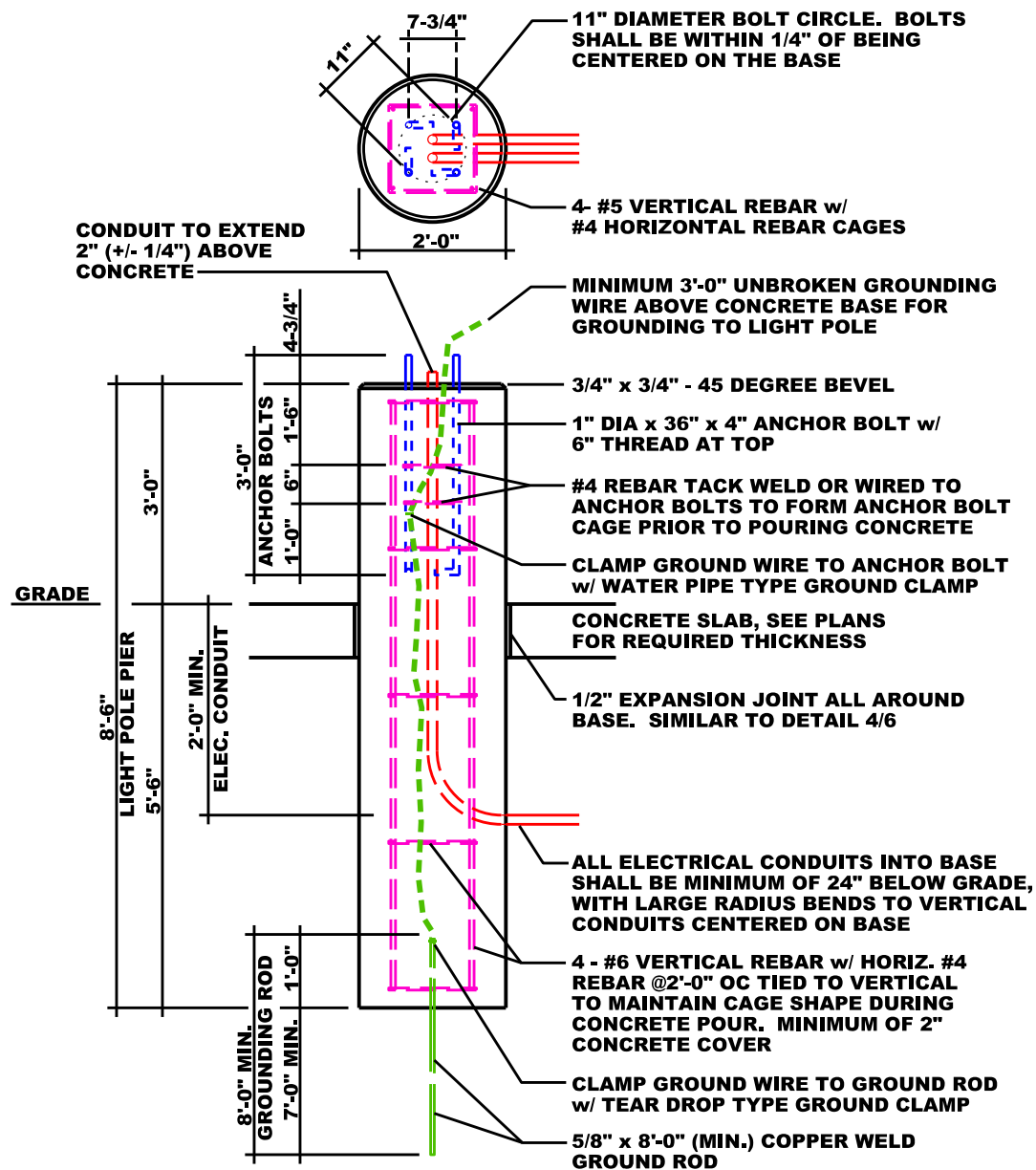
**CONSTRUCTED EXPANSION JOINT**

**3/6 HEAVY DUTY CONCRETE JOINT DETAILS**

NOT TO SCALE

**2/6 ENLARGED PAVEMENT GRADE BEAM DETAIL**

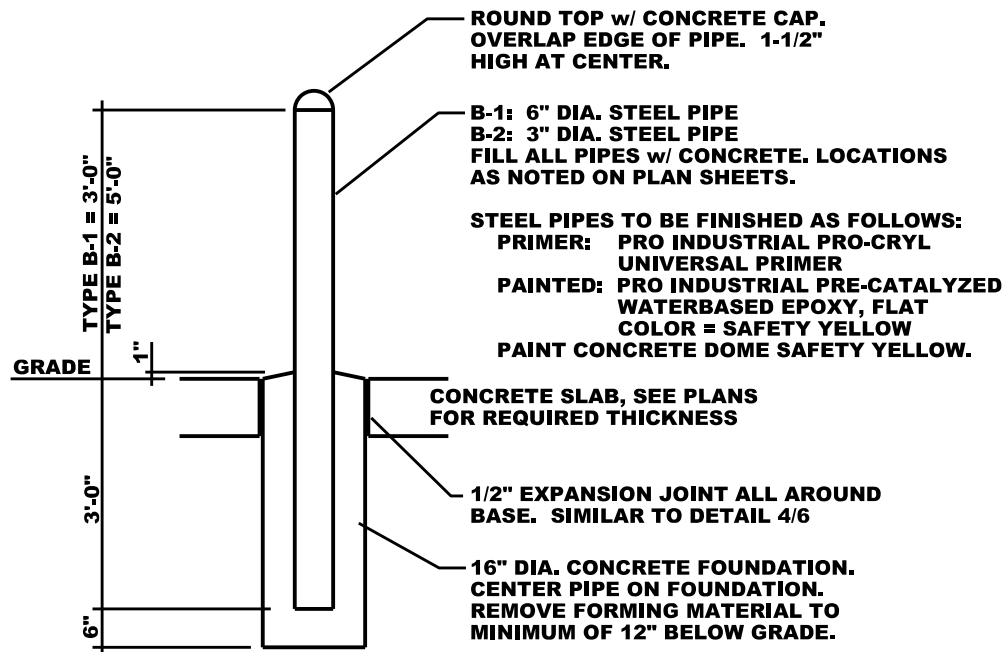
NOT TO SCALE



- NOTES:**
1. THE EXCAVATION HOLE FOR THE LIGHT POLE BASE MAY BE DUG WITH A 24" DIAMETER AUGER. HOWEVER, THE BASE FROM 12" BELOW GRADE (MINIMUM) TO THE TOP SHALL BE FORMED AS A 24" CIRCLE.
  2. ALL FORMING MATERIALS FOR BASE SHALL BE REMOVED TO 12" BELOW GRADE (MINIMUM).

### 1/7 LIGHT POLE BASE DETAILS

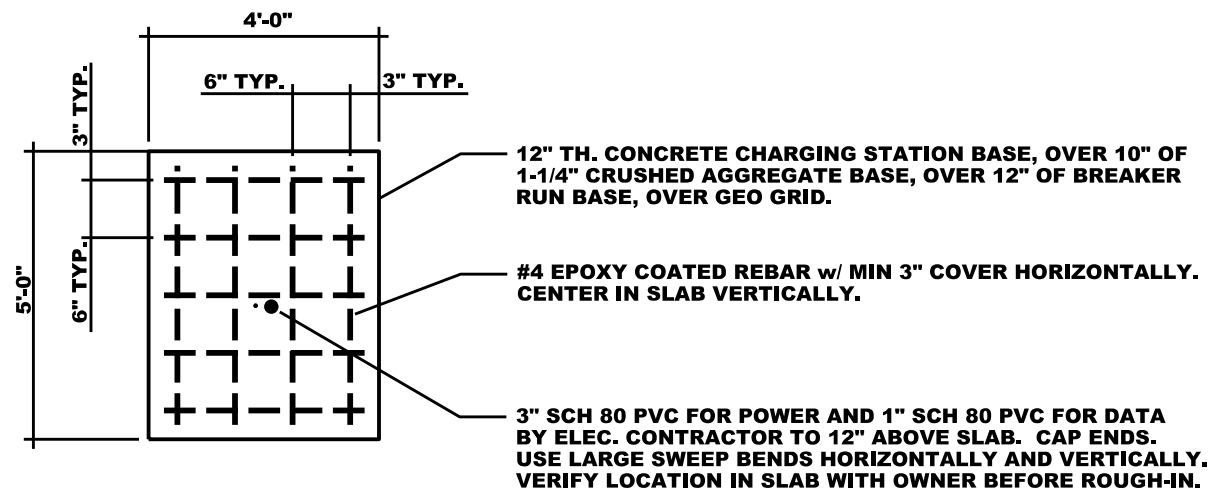
NOT TO SCALE



- NOTES:**
1. TYPES B-1 AND B-2 ARE SIMILAR EXCEPT AS NOTED IN THE DETAIL.
  2. TYPE B-1 BOLLARDS ARE USED AT ALL RAISED FUEL DISPENSING ISLANDS.
  3. TYPE B-2 BOLLARDS ARE USED AT THE TRUCK SCALE CONTROL PANEL AND AT BOTH VEHICLE GATE OPERATORS.

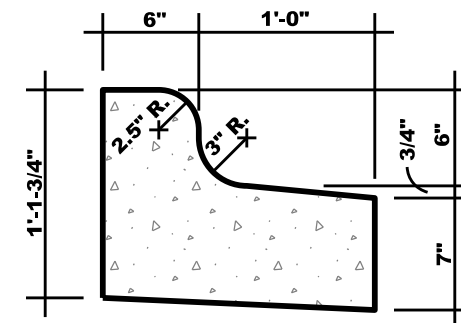
### 2/7 BOLLARD DETAIL

NOT TO SCALE



### 4/7 ELECTRIC VEHICLE CHARGING BASE

NOT TO SCALE



**NOTE:**  
TYPE 'D' CURB WITH REJECT GUTTER. CITY STANDARD DETAIL DRAWING 3.08. TYPICAL OF ALL CURB & GUTTER. SEE DETAIL 8/12 FOR MODIFIED CURB AT GAS HUT ONLY.

### 3/7 TYPE 'D' CURB AT GAS ISLANDS

NOT TO SCALE

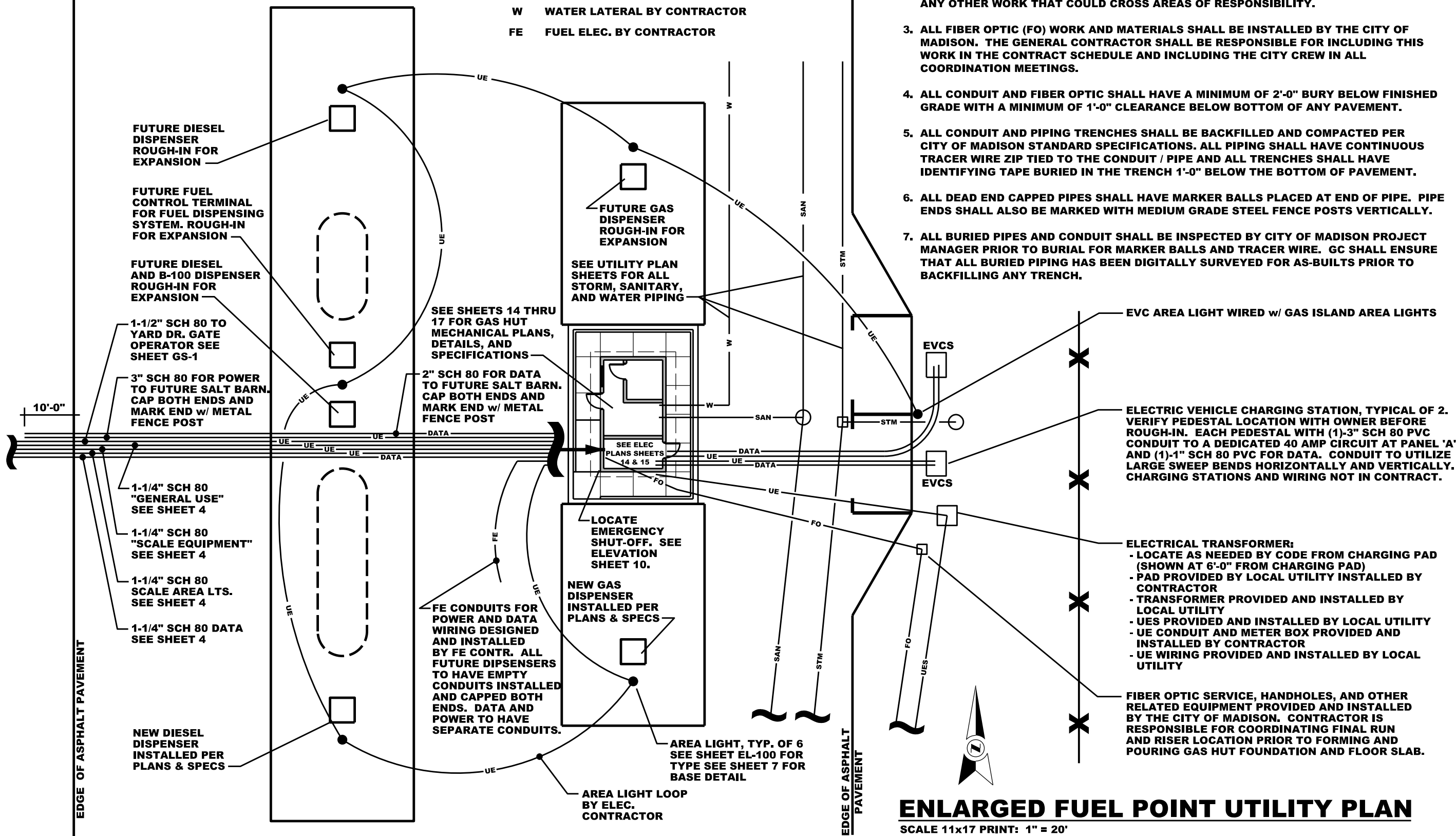
**GENERAL FUEL DISPENSING NOTE:**

ALL FUEL DISPENSING ISLANDS DESIGNATED AS ROUGH-IN FOR EXPANSION SHALL INCLUDE CONDUITS AND PIPING FOR PRODUCT, DATA CABLING AND ELECTRICAL. PROVIDE SHUT OFFS AND CAPS AS NEEDED.

- UES UNDERGROUND ELEC. SERVICE BY UTILITY
- UE UNDERGROUND ELEC. BY CONTRACTOR
- FO FIBER OPTIC SERVICE BY CITY OF MADISON
- DATA DATA LINE BY CONTRACTOR
- SAN SANITARY SEWER BY CONTRACTOR
- STM STORM SEWER BY CONTRACTOR
- W WATER LATERAL BY CONTRACTOR
- FE FUEL ELEC. BY CONTRACTOR

**FUEL POINT UTILITY NOTES:**

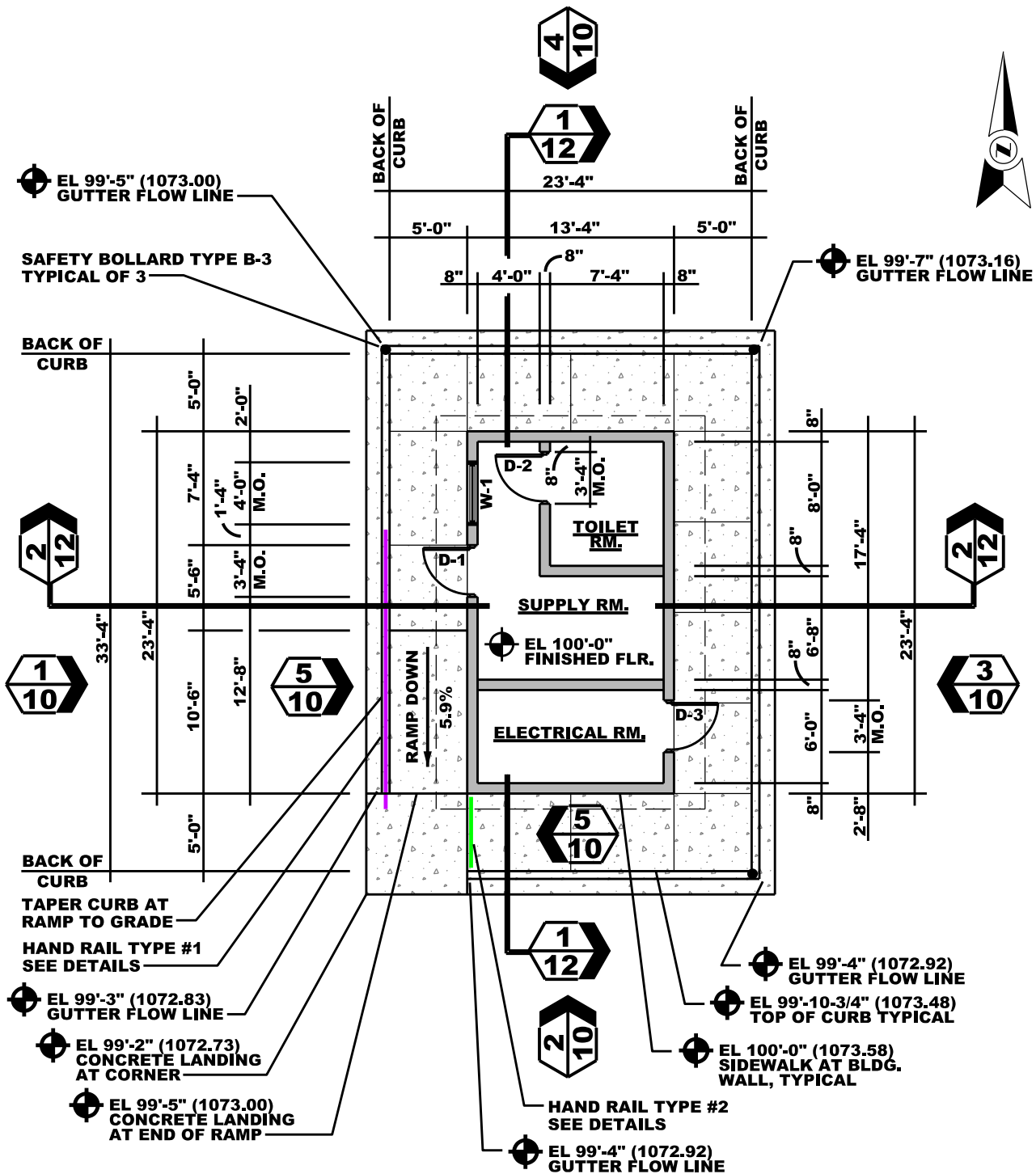
1. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS, DETAILS, AND SPECIFICATIONS ASSOCIATED WITH THIS CONTRACT SO THEY HAVE A FULL UNDERSTANDING OF THE CONTRACT AND SCOPE OF WORK.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING RESPONSIBILITIES OF ALL WORK INVOLVED TO COMPLETE THIS CONTRACT. THIS SHALL INCLUDE BUT NOT BE LIMITED TO DEMOLITION, TRENCHING, BACKFILL, AND ANY OTHER WORK THAT COULD CROSS AREAS OF RESPONSIBILITY.
3. ALL FIBER OPTIC (FO) WORK AND MATERIALS SHALL BE INSTALLED BY THE CITY OF MADISON. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THIS WORK IN THE CONTRACT SCHEDULE AND INCLUDING THE CITY CREW IN ALL COORDINATION MEETINGS.
4. ALL CONDUIT AND FIBER OPTIC SHALL HAVE A MINIMUM OF 2'-0" BURY BELOW FINISHED GRADE WITH A MINIMUM OF 1'-0" CLEARANCE BELOW BOTTOM OF ANY PAVEMENT.
5. ALL CONDUIT AND PIPING TRENCHES SHALL BE BACKFILLED AND COMPACTED PER CITY OF MADISON STANDARD SPECIFICATIONS. ALL PIPING SHALL HAVE CONTINUOUS TRACER WIRE ZIP TIED TO THE CONDUIT / PIPE AND ALL TRENCHES SHALL HAVE IDENTIFYING TAPE BURIED IN THE TRENCH 1'-0" BELOW THE BOTTOM OF PAVEMENT.
6. ALL DEAD END CAPPED PIPES SHALL HAVE MARKER BALLS PLACED AT END OF PIPE. PIPE ENDS SHALL ALSO BE MARKED WITH MEDIUM GRADE STEEL FENCE POSTS VERTICALLY.
7. ALL BURIED PIPES AND CONDUIT SHALL BE INSPECTED BY CITY OF MADISON PROJECT MANAGER PRIOR TO BURIAL FOR MARKER BALLS AND TRACER WIRE. GC SHALL ENSURE THAT ALL BURIED PIPING HAS BEEN DIGITALLY SURVEYED FOR AS-BUILTS PRIOR TO BACKFILLING ANY TRENCH.



CITY OF MADISON - ENGINEERING  
CONTRACT 8606  
SOUTH POINT SCALE AND FUELING

FUEL POINT ENLARGED  
UTILITY PLAN

**ENLARGED FUEL POINT UTILITY PLAN**  
SCALE 11x17 PRINT: 1" = 20'



**GENERAL NOTES:**

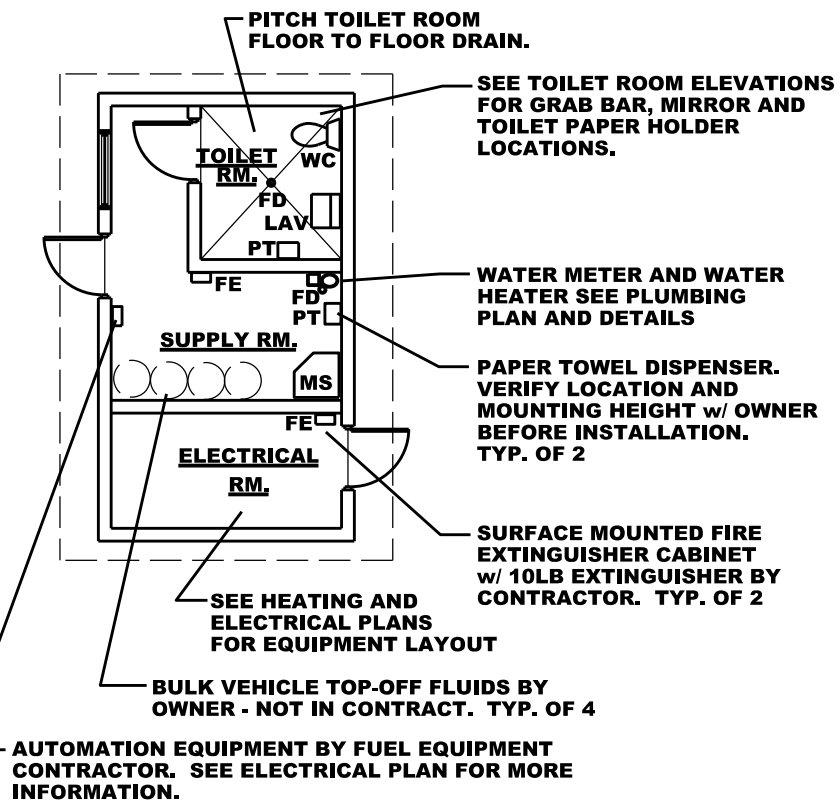
- ELEVATION EQUATION: 100'-0" ARCHITECTURAL = 1073.58' CIVIL

**FLOOR PLAN**

SCALE 11x17 PRINT: 1" = 10'

**GAS HUT CONSTRUCTION NOTES:**

- ALL CONTRACTORS SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS, DETAILS, AND SPECIFICATIONS ASSOCIATED WITH THIS CONTRACT SO THEY HAVE A FULL UNDERSTANDING OF THE CONTRACT AND SCOPE OF WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF MADISON DURING THE BIDDING PHASE.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING RESPONSIBILITIES OF ALL WORK INVOLVED TO COMPLETE THIS CONTRACT. THIS SHALL INCLUDE BUT NOT BE LIMITED TO DEMOLITION, EXCAVATION, TRENCHING, BACKFILL, AND ANY OTHER WORK THAT COULD CROSS AREAS OF RESPONSIBILITY.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE CODE COMPLIANT CONSTRUCTION OF THE STRUCTURE AND ALL COMPONENTS.

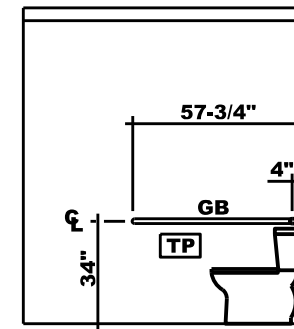


**INTERIOR FINISH PLAN**

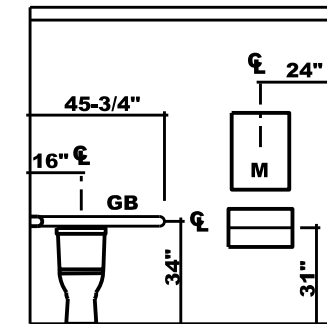
SCALE 11x17 PRINT: 1" = 10'

**INTERIOR FINISH NOTES:**

- ALL INTERIOR CONCRETE FLOORS TO HAVE A TROWELED FINISH.
- ALL INTERIOR WALLS SHALL BE TYPE N GRADE, NOMINAL BLOCK 8" x 8" x 16". PROVIDE ALL STRETCHERS, CORNERS, CAPS, CAP ENDS, BULLNOSES AND BOND BEAMS AS REQUIRED FOR A COMPLETE INSTALLATION.
- ALL INTERIOR CEILINGS SHALL BE 5/8" TYPE X DRYWAL WITH A 1 HOUR FIRE RATING. TAPED, SANDED, PRIMED AND PAINTED (SEE NOTE 5 BELOW).
- ALL INTERIOR CMU WALLS TO BE PRIMED AND PAINTED AS FOLLOWS:  
PRIMER: PREPRITE BLOCK FILLER, B25W25, APPLIED PER MANUFACTURER INSTRUCTIONS  
PAINTED: TWO COATS SHERWIN WILLIAMS, PROMAR 200 ZERO VOC INTERIOR LATEX, EGGSHELL, COLOR = SW7006, EXTRA WHITE
- ALL INTERIOR GYPSUM BOARD AND WOOD TRIM TO BE PRIMED AND PAINTED AS FOLLOWS:  
PRIMER: SHERWIN WILLIAMS, PROMAR 200 ZERO VOC LATEX PRIMER PER MFR. INSTRUCTIONS  
PAINTED: TWO COATS SHERWIN WILLIAMS, PROMAR 200 ZERO VOC INTERIOR LATEX, FLAT, COLOR = SW7006, EXTRA WHITE
- SEE EXHIBIT-B, SPECIFICATION 08-11-13 "HOLLOW METAL DOORS AND FRAMES" FOR HOLLOW METAL DOOR, DOOR/WINDOW FRAME, CONSTRUCTION AND FINISHES.
- GRAB BAR (GB); BOBRICK B-5897 TWO WALL BAR 42 x 54, 1-1/4" DIA. STAINLESS STEEL WITH NO SLIP FINISH AND SNAP FLANGES. FURNISHED AND INSTALLED BY CONTRACTOR.
- MIRROR (M); BOBRICK B-165 1824 CHANNEL FRAME MIRROR. FURNISHED AND INSTALLED BY CONTRACTOR.
- PAPER TOWEL (PT) AND TOILET PAPER (TP) DISPENSERS; FURNISHED BY OWNER (2 EA. PT AND 1 EA TP), INSTALLED BY CONTRACTOR VERIFY LOCATION AND MOUNTING HEIGHTS WITH OWNER PRIOR TO INSTALLATION.



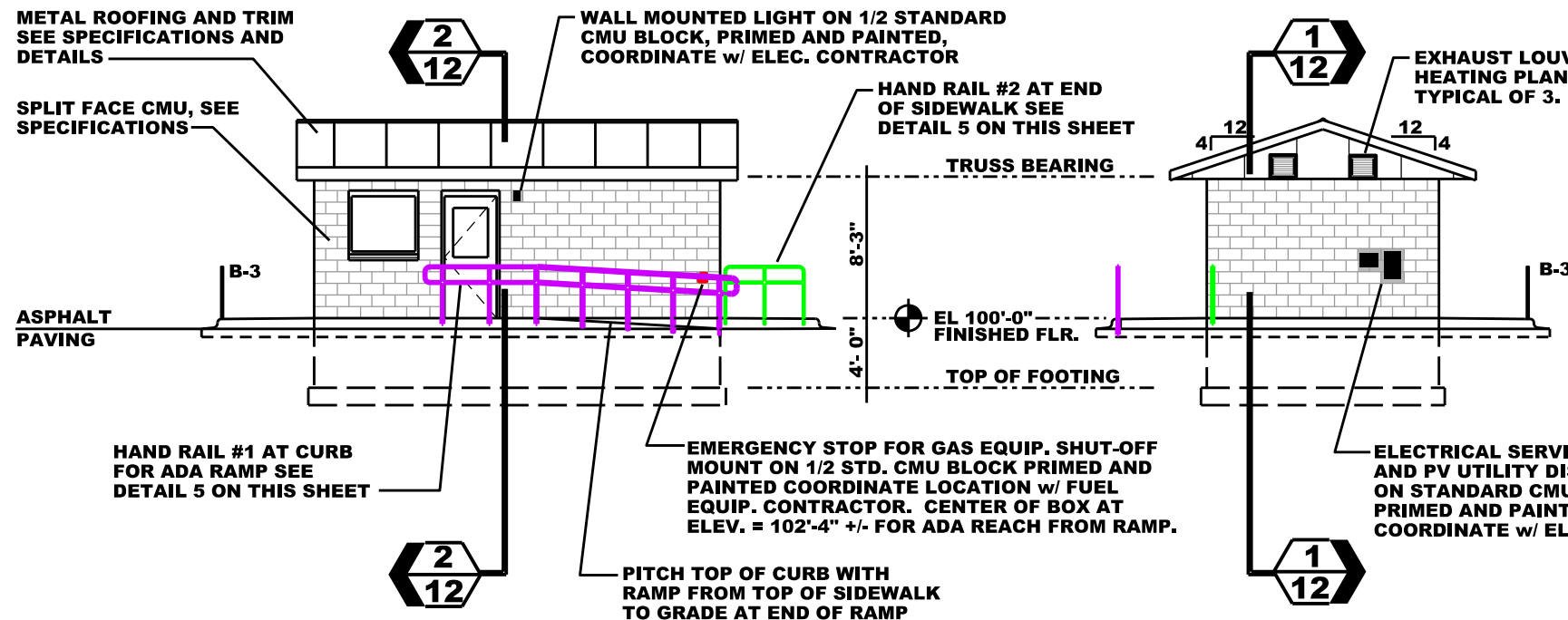
**NORTH TOILET RM. ELEV.**  
NOT TO SCALE



**EAST TOILET RM. ELEV.**  
NOT TO SCALE

CITY OF MADISON - ENGINEERING  
CONTRACT 8606  
SOUTH POINT SCALE AND FUELING

GAS HUT FLOOR PLAN AND  
INTERIOR FINISH PLAN / NOTES



**1/10 WEST ELEVATION**

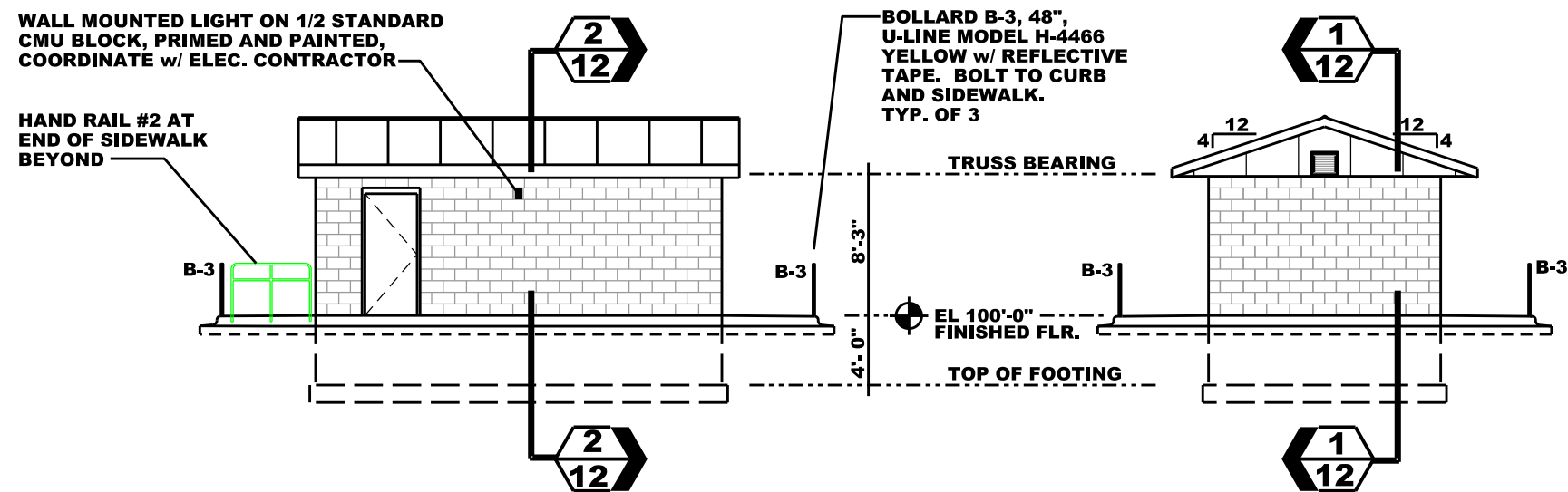
SCALE 11x17 PRINT: 1" = 10'

**2/10 SOUTH ELEVATION**

SCALE 11x17 PRINT: 1" = 10'

**GENERAL ELEVATION NOTES:**

1. ELEVATION EQUATION: EL 100'-0" ON ARCHITECTURAL SHEETS = EL 1073.58' ON CIVIL SHEETS
2. ALL ELEVATIONS ARE SHOWN WITHOUT REQUIRED PHOTOVOLTAIC (PV) SOLAR PANELS. SEE DETAILS SHEET 14 FOR MORE INFORMATION ON PV INSTALLATION REQUIREMENTS.



**3/10 EAST ELEVATION**

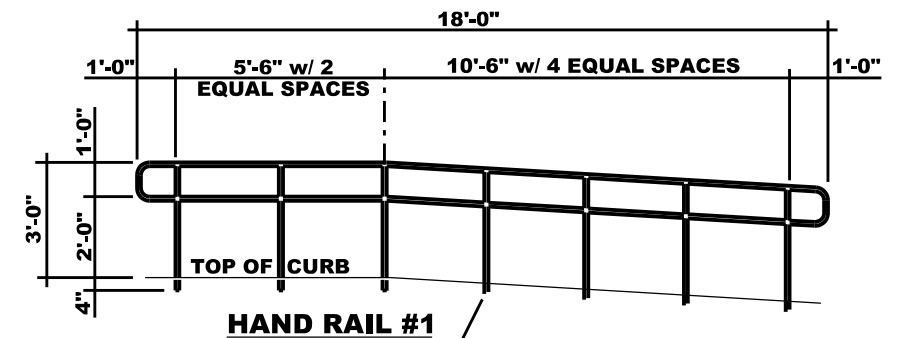
SCALE 11x17 PRINT: 1" = 10'

**4/10 NORTH ELEVATION**

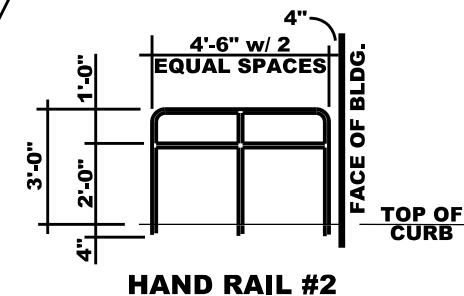
SCALE 11x17 PRINT: 1" = 10'

**EXTERIOR FINISH NOTES:**

1. METAL DOORS AND FRAMES REFER TO INTERIOR FINISH NOTES ON SHEET 9.
2. ALL EXTERIOR CMU WALLS SHALL BE TYPE N GRADE, NOMINAL BLOCK 8" x 8" x 16", COLORED SPLIT-FACE MASONRY UNITS AS MANUFACTURED BY COUNTY MATERIALS OR APPROVED EQUAL. COLOR BASED ON COUNTY MATERIALS #252 - TANNED LEATHER. PROVIDE COLORED SAMPLES TO OWNER REP PRIOR TO ORDERING BLOCK. PROVIDE ALL STRETCHERS, CORNERS, CAPS, CAP ENDS, BULLNOSES AND BOND BEAMS AS REQUIRED FOR A COMPLETE INSTALLATION.
3. ALL EXTERIOR CMU WALLS (STANDARD CMU - NOT SPLIT FACE BLOCK) SHALL BE TYPE N GRADE, NOMINAL BLOCK 8" x 8" x 16", PROVIDE ALL STRETCHERS AS REQUIRED FOR A COMPLETE INSTALLATION. STANDARD CMU BLOCK SHALL BE PRIMED AND PAINTED AS FOLLOWS:  
 PRIMER: PREPRITE BLOCK FILLER, B25W25, APPLIED PER MANUFACTURER INSTRUCTIONS  
 PAINTED: TWO (2) COATS SHERWIN WILLIAMS, PROMAR 200 ZERO VOC INTERIOR LATEX, EGSHEL, COLOR = MATCH COLOR OF SPLIT FACE BLOCK  
 \*\*NOTE SEE BUILDING ELEVATIONS ON THIS SHEET FOR EXACT LOCATIONS OF THIS APPLICATION.
4. ALL EXTERIOR CAULKING OF DOORS AND WINDOW SHALL BE WEATHERPROOF AND COLOR MATCHED TO FRAMES.
5. ALL METAL ROOFING AND TRIM, COLOR = HUNTER GREEN



CONTRACTOR TO PROVIDE AND INSTALL PIPE SLEEVES IN CONCRETE CURB POURS FOR ALL RAILING POSTS. BOLTED CONNECTIONS TO CONCRETE WILL NOT BE PERMITTED. TYPICAL FOR BOTH HAND RAILS.

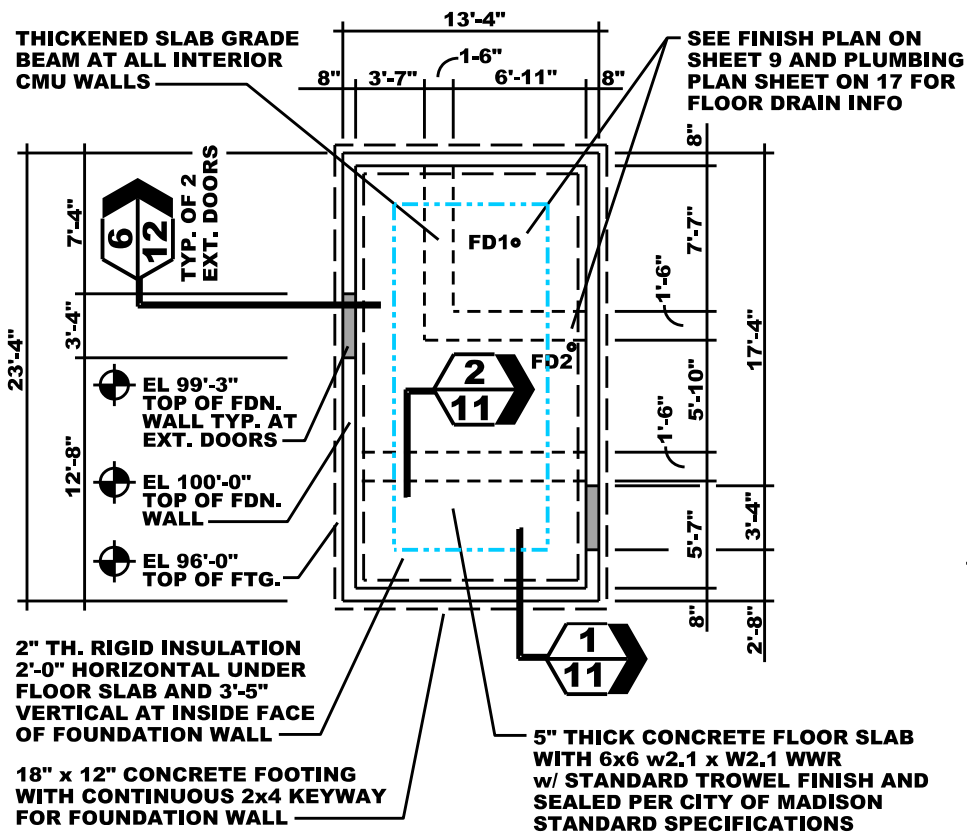


**HANDRAIL NOTES:**

1. ALL PIPING TO BE 1-1/4" ROUND STEEL PIPING.
2. ALL WELDS TO BE FILLED, COMPLETE, AND GROUND SMOOTH.
3. HANDRAILS TO BE PRIMED AND PAINTED AS FOLLOWS:  
 PRIMER: PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER  
 PAINTED: PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY, FLAT, COLOR = SAFETY YELLOW  
 CONTRACTOR SHALL TOUCH-UP AS NEEDED PRIOR TO OCCUPANCY

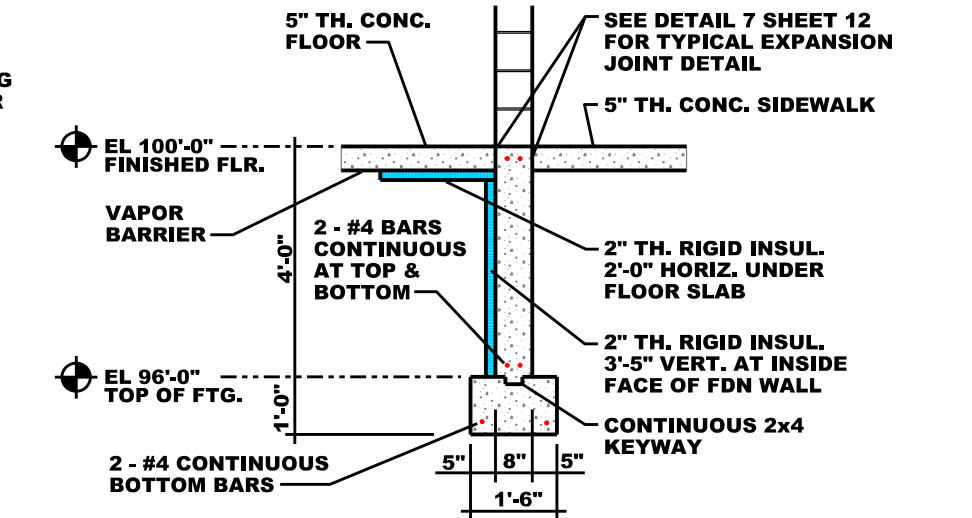
**5/10 HANDRAIL DETAILS**

NOT TO SCALE



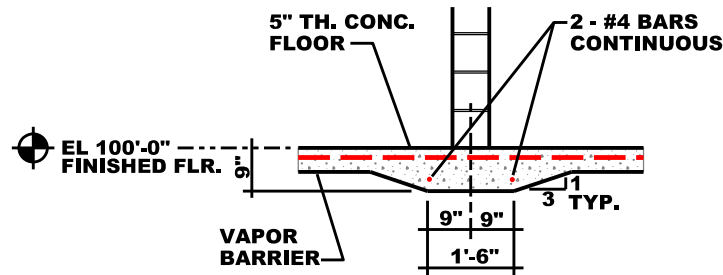
### FOOTING AND FOUNDATION PLAN

SCALE 11x17 PRINT: 1" = 10'



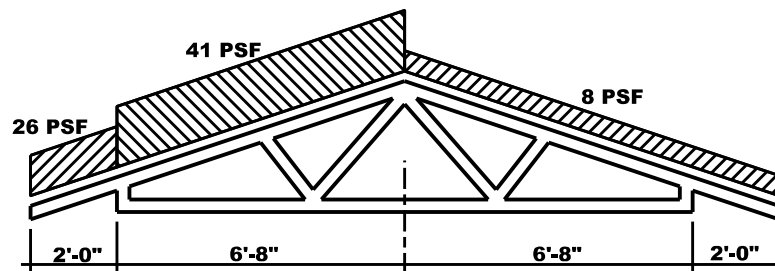
### 1/11 TYP. FTG. & FDN. WALL DETAIL

NOT TO SCALE



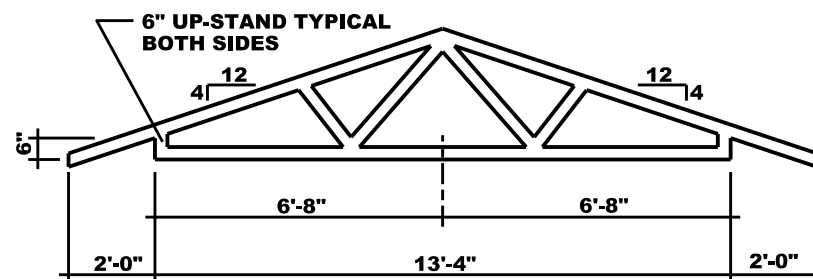
### 2/11 THICKENED SLAB AT INTERIOR CMU WALL

NOT TO SCALE



### UNBALANCED SNOW LOAD DIAGRAM

NOT TO SCALE



NOTE: GABLE END TRUSS IS SIMILAR

### COMMON TRUSS DIAGRAM

NOT TO SCALE

DESIGN DEAD LOADS (ROOF):  
 TOP CHORD (DOES NOT INCL. PV).....10 PSF  
 BOTTOM CHORD.....10 PSF

DESIGN LIVE LOADS:  
 FLOOR.....100 PSF  
 BALANCED SNOW LOAD.....26 PSF  
 UN-BALANCED SNOW LOAD.....SEE DETAIL BELOW  
 WIND LOAD.....30 PSF  
 PHOTOVOLTAIC LOAD.....10 PSF

BUILDING VOLUME.....2,565 CF

SOIL BEARING PRESSURE.....2,000 PSF

CAST IN PLACE CONCRETE, 28 DAY  $f_c$  STRENGTH  
 FOOTINGS.....3,000 PSI  
 FOUNDATION WALLS.....4,000 PSI  
 BUILDING FLOOR SLAB.....4,000 PSI

CONCRETE MASONRY UNIT (CMU) - ASTM C90  
 DESIGN ASSEMBLY STRENGTH..... $f_m$  2,000 PSI  
 EXTERIOR SPLIT FACE CMU.....2,000 PSI  
 INTERIOR STANDARD CMU.....2,000 PSI

MORTAR MATERIALS, TYPE S - ASTM C270.....1,800 PSI

GROUT FOR CMU - ASTM C476.....2,000 PSI

DEFORMED REBAR - ASTM A615, GRADE 60..... $F_y$  60 KSI  
 NOTE: USE EPOXY COATED WHERE NOTED IN DETAILS

WELDED WIRE REINFORCING - ASTM A1064..... $F_y$  65 KSI

ANCHOR BOLTS FOR MASONRY - ASTM A307, GRADE A

REINFORCING STEEL FOR MASONRY - ASTM A615, GRADE 60 (UNO)

SHEET METAL ANCHORS AND TIES - ASTM A1008

WIRE TIES AND ANCHORS - ASTM A951

DIMENSIONAL LUMBER, #2 OR BETTER..... $F_b$  850 PSI

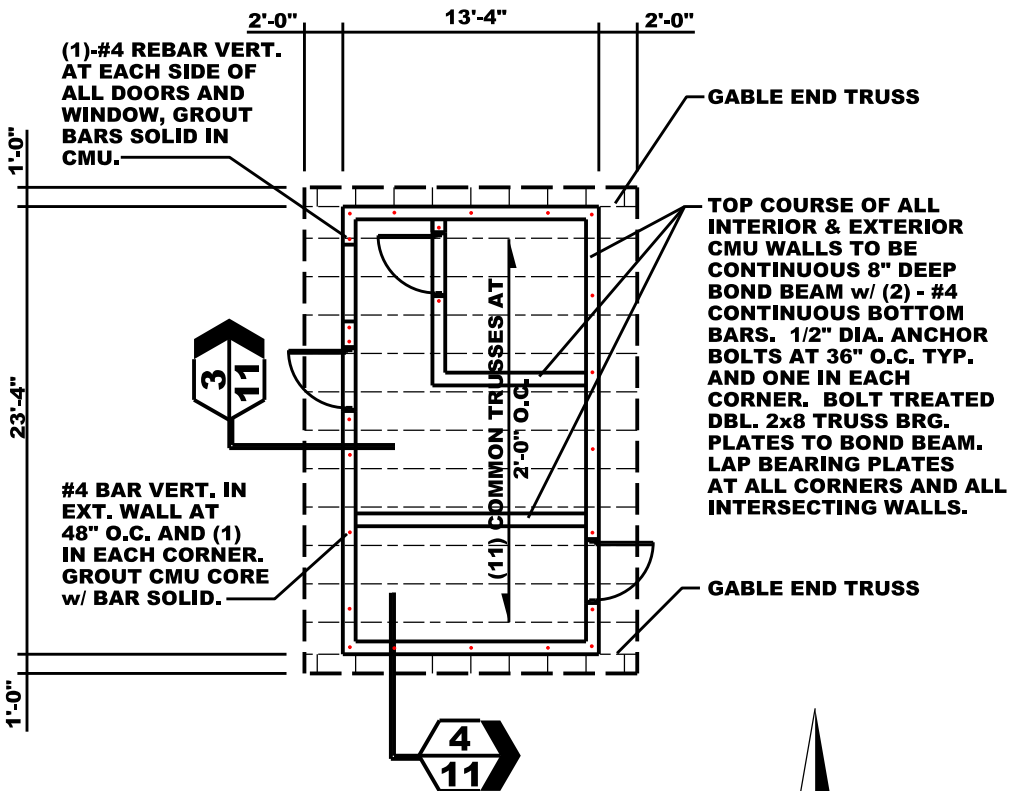
ROOF SHEATHING: 1/2" OSB, (EXP 1) w/ 24/16 APA SPAN RATING FASTENED w/ 8d COMMON NAILS @ 6" O.C. AT SUPPORTING PANEL EDGES AND 8d COMMON NAILS @ 12" O.C. AT INTERIOR SUPPORTS.

#### FOOTING AND FOUNDATION NOTES:

- ELEVATION EQUATION:  
EL 100'-0" ON ARCHITECTURAL SHEETS = EL 1073.58' ON CIVIL SHEETS.
- THE CONTRACTOR SHALL HOLD A PRE-INSTALLATION MEETING WITH ALL CONTRACTORS PRIOR TO FORMING AND POURING THE BUILDING FOUNDATION TO ENSURE ALL CONDUITS AND ROUGH-INS HAVE BEEN INSTALLED BELOW THE FOOTINGS.
- ALL PLUMBING AND ELECTRICAL ROUGH-INS BELOW GRADE SHALL BE IN A SAND BED AS PER CITY OF MADISON STANDARD DETAILS.
- EXCEPT FOR #3 ABOVE ALL OTHER FILL WITHIN THE FOUNDATION SHALL BE 1-1/4" CRUSHED AGGREGATE IN LIFTS NOT EXCEEDING 6". USE VIBRATORY TYPE DEVICE TO COMPACT FILL TO 95% MAX. DRY DENSITY. COMPACTION WITH A BACKHOE BUCKET (RAMMING) SHALL NOT BE PERMITTED.

#### STRUCTURAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL REQUIRED COMPACTION TESTS REQUIRED BY THE CONTRACT DOCUMENTS.



### STRUCTURAL PLAN

SCALE 11x17 PRINT: 1" = 10'



CITY OF MADISON - ENGINEERING  
 CONTRACT 8606  
 SOUTH POINT SCALE AND FUELING

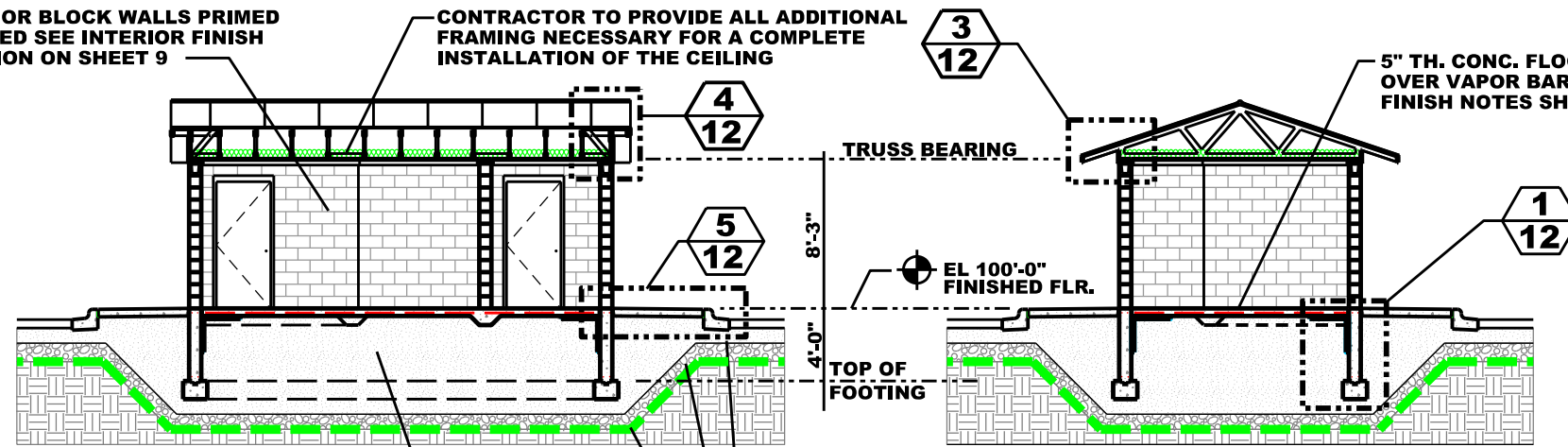
GAS HUT STRUCTURAL PLANS  
 DETAILS, AND SPECIFICATIONS

ALL INTERIOR BLOCK WALLS PRIMED AND PAINTED SEE INTERIOR FINISH INFORMATION ON SHEET 9

CONTRACTOR TO PROVIDE ALL ADDITIONAL FRAMING NECESSARY FOR A COMPLETE INSTALLATION OF THE CEILING

5" TH. CONC. FLOOR SLAB OVER VAPOR BARRIER. SEE FINISH NOTES SHEET 9.

ELASTOMERIC CONCRETE SEALANT. FILL VOID AND TOOL WITH A CONCAVE DEPRESSION. COLOR = GREY

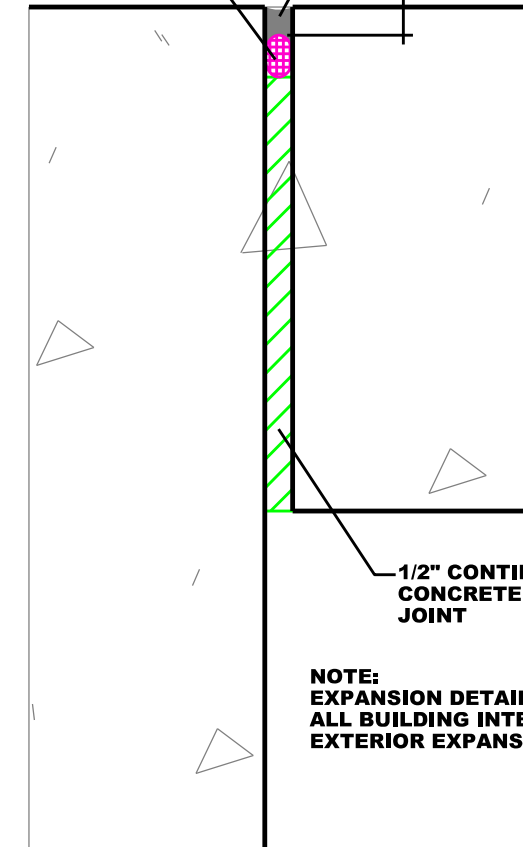


1-1/4" COMPACTED CRUSHED AGGREGATE BELOW FLOOR SLAB. USE MINIMUM OF 6" SAND AROUND ALL BURIED PIPES AND CONDUITS

MINIMUM 10" OF 1-1/4" COMPACTED CRUSHED AGGREGATE  
MINIMUM 12" OF BREAKER RUN BASE  
CONTINUOUS GEO-GRID FABRIC

5/8" CLOSED FOAM BACKER ROD

1/4" MIN.  
1/2" MAX.



NOTE: EXPANSION DETAIL SIMILAR AT ALL BUILDING INTERIOR AND EXTERIOR EXPANSION JOINTS

TREATED DBL 2x8 CONTINUOUS TRUSS BEARING PLATE, BOLT TO BOND BEAM

METAL ROOF PANEL VERTICAL ON CONTINUOUS 3/4" PLYWOOD NAILER INSTALL APPROPRIATE METAL TRIM

CONTINUOUS VENTED SOFFIT PANEL INSTALL w/ APPROPRIATE METAL TRIM

1x4 FASCIA NAILER w/ METAL FASCIA, INSTALL w/ APPROPRIATE METAL TRIM

2x4 OUTRIGGERS AT 24" O.C. PROVIDE SIMPSON H2.5A TIE AT CONNECTION TO GABLE END TRUSS AND SIMPSON LU24 HANGER AT CONNECTION TO COMMON TRUSS. TYPICAL.

METAL ROOFING ON ICE & WATER SHIELD, ON 1/2" OSB ROOF SHEATHING. ROOFING w/ CONTINUOUS RIDGE VENT. INSTALL INSECT FOAM AT RIDGE VENT AND EAVE OPENINGS.

COMMON TRUSS AT 24" O.C., TYP.  
6" KRAFT FACED FIBERGLASS INSULATION (R-19), TYPICAL  
5/8" TYPE X MOLD & MOISTURE RESISTANT DRYWALL CEILING

TRUSS BEARING

1x3 CONT. TRIM BOARD  
SIMPSON H2.5A TYP. AT EACH ROOF TRUSS (SHADED)  
BOND BEAM w/ (2) - #4 BARS CONTINUOUS, IMBEDDED 1/2" DIA ANCHOR BOLTS AT 36" O.C.

2x4 BRACING @ 4'-0" O.C. MAX. FASTEN TO OUTRIGGER w/ (4) 10d NAILS

PROVIDE BLOCKING BETWEEN OUTRIGGERS

2x4 FLY RAFTER FRAMING WITH 1x6 FASCIA NAILER AND METAL FASCIA, INSTALL WITH APPROPRIATE METAL TRIM

SHORTENED GABLE END TRUSS  
SIMPSON GBC SHOWN SHADED, EACH SIDE OF BRACE

CONTINUOUS VENTED SOFFIT PANEL INSTALL WITH APPROPRIATE METAL TRIM

METAL ROOF PANEL VERTICAL ON CONTINUOUS 3/4" PLYWOOD NAILER INSTALL APPROPRIATE METAL TRIM

**3/12 ROOF EAVE DETAIL**

NOT TO SCALE

**4/12 ROOF GABLE DETAIL**

NOT TO SCALE

5" TH. INTERIOR CONCRETE FLOOR SLAB

7/12 TYPICAL OF ALL BUILDING EXPANSION JOINTS

5" TH. CONCRETE SIDE WALK SEE CITY STANDARD SPECIFICATIONS

2" TH. RIGID INSULATION 2'-0" HORIZONTAL UNDER FLOOR SLAB AND 3'-7" VERTICAL AT INSIDE FACE OF FOUNDATION WALL

**5/12 SIDEWALK DETAIL**

NOT TO SCALE

MASONRY WALL AND DOOR JAMB BEYOND

DOOR THRESHOLD PLATE

EL 100'-0" FINISHED FLR.

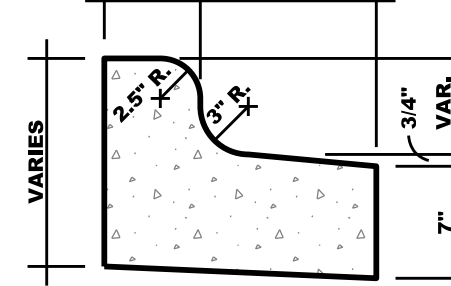
(3) - #4 x 1'-6" x 1'-6" BENT EPOXY REBAR BOTH SIDES OF EXP. JOINT. BARS TO BE EQUALLY SPACED

EL 99'-3" TOP OF FDN. WALL TYP. AT EXT. DOORS

**6/12 EXP. JOINT AT D-1 & D-3**

NOT TO SCALE

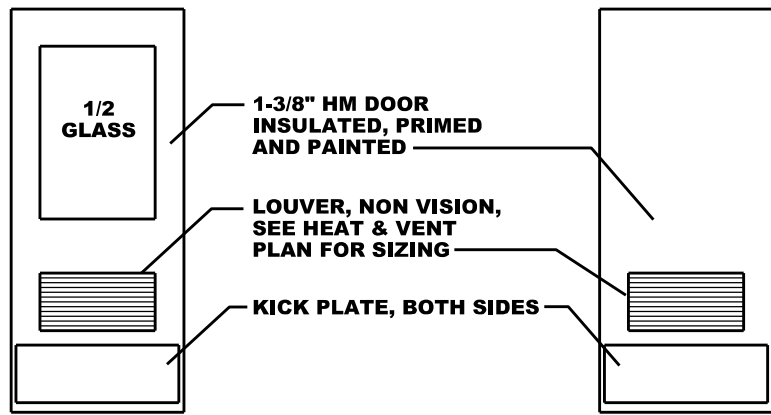
6" 12"



EL 99'-10-3/4" (1073.48) TOP OF CURB, TYPICAL

SPOT ELEVATION GUTTER FLOW LINE SEE FLOOR PLAN

NOTE: TYPE 'D' CURB WITH REJECT GUTTER. CITY STANDARD DETAIL DRAWING 3.08. TYPICAL OF ALL CURB & GUTTER AROUND THE GAS HUT.

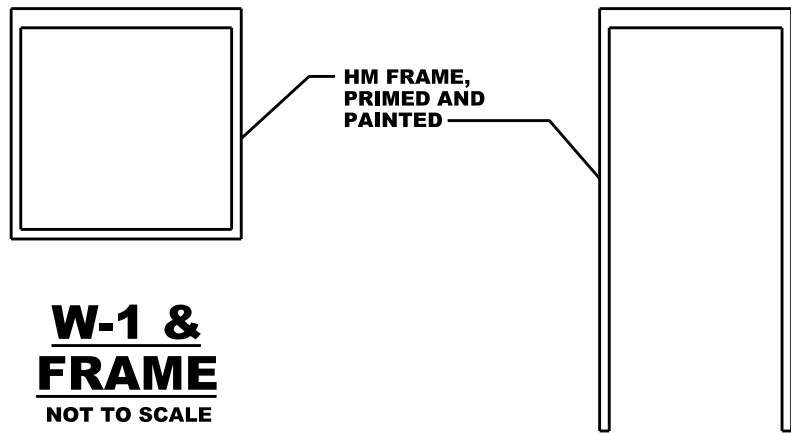


**D-1**

NOT TO SCALE

**D-2 & D-3**

NOT TO SCALE



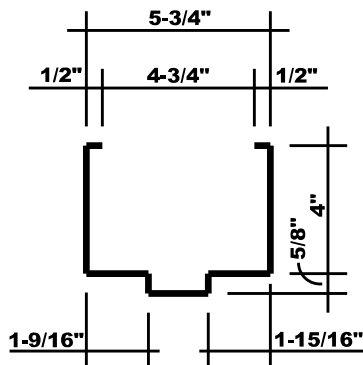
**W-1 & FRAME**

NOT TO SCALE

NOTE: SEE CHART THIS SHEET FOR M.O. DIMENSIONS

**TYP. DOOR FRAME**

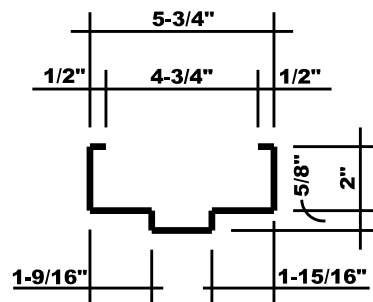
NOT TO SCALE



NOTE: WINDOW FRAMES SIMILAR WITH GLAZING STOPS

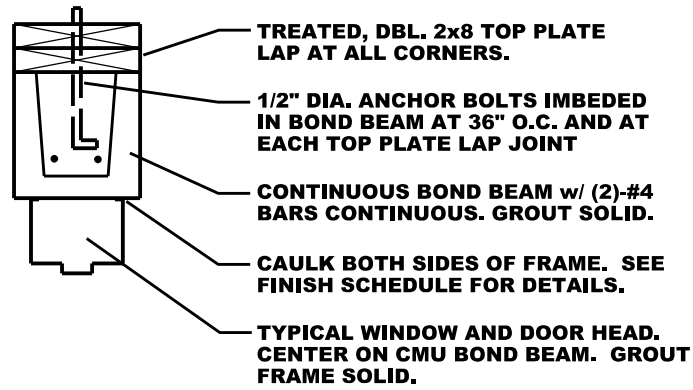
**HM DOOR HEAD**

NOT TO SCALE



**HM DOOR JAMB**

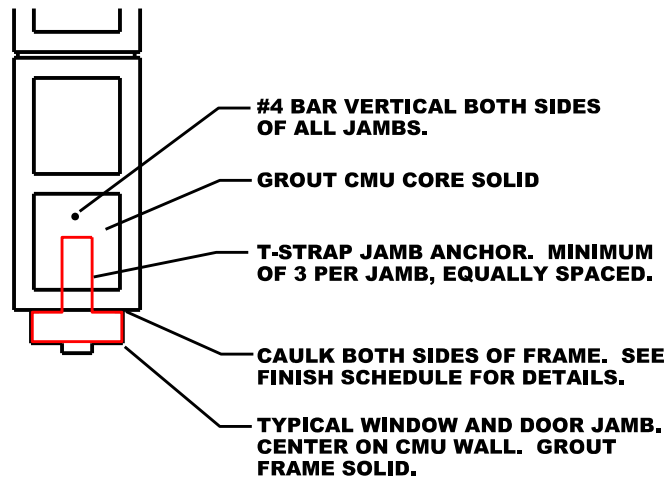
NOT TO SCALE



NOTE: BOND BEAM, DBL. TOP PLATE, ANCHOR BOLT, AND CONTINUOUS REBAR CONSTRUCTION IS TYPICAL OF ALL EXTERIOR AND INTERIOR WALLS.

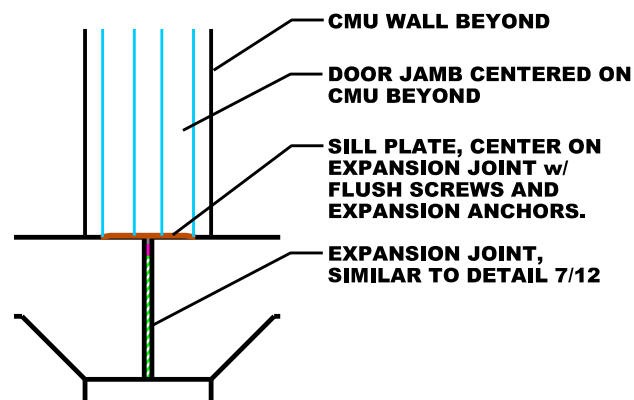
**1/13 METAL FRAME HEAD DETAIL, TYP.**

NOT TO SCALE



**2/13 METAL FRAME JAMB DETAIL, TYP.**

NOT TO SCALE



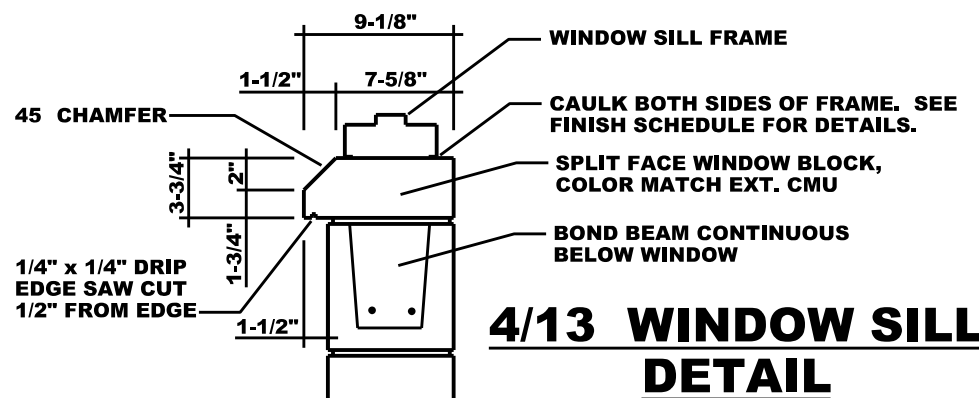
**3/13 EXT. DOOR SILL DETAIL**

NOT TO SCALE

**DOORS, FRAMES AND WINDOW NOTES:**

1. SEE EXHIBIT B, SPECIFICATION 08 11 13 HOLLOW METALS DOORS AND FRAMES.
2. SEE EXHIBIT B, SPECIFICATION 08 71 00 HARDWARE.
3. 1/4" LOW E INSULATED GLAZING SIZES AS NOTED IN DETAILS FOR D-1 AND W-1.

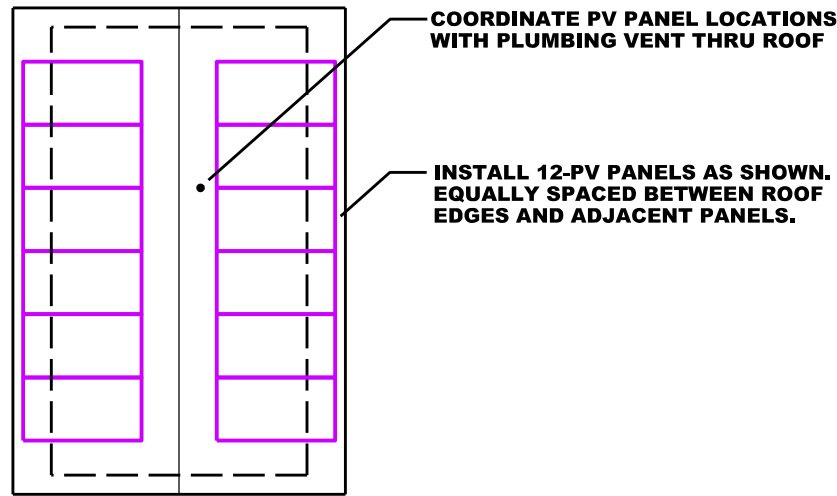
DOOR AND WINDOW OPENING SCHEDULE					
PLAN ID	MO-W	MO-H	WIDTH	HEIGHT	REMARKS
D-1	3'-4"	7'-0"	3'-0"	6'-8"	ALL DOORS AND FRAMES SHALL BE PRIMED AND PAINTED BOTH SIDES. SEE INTERIOR FINISH NOTES ON SHEET 9 FOR MORE INFO.
D-2	3'-4"	7'-0"	3'-0"	6'-8"	
D-3	3'-4"	7'-0"	3'-0"	6'-8"	
W-1	4'-0"	3'-8"	-	-	CAULK ALL FRAMES INTERIOR AND EXTERIOR PER FINISH NOTES ON SHEETS 9 AND 10.



**4/13 WINDOW SILL DETAIL**

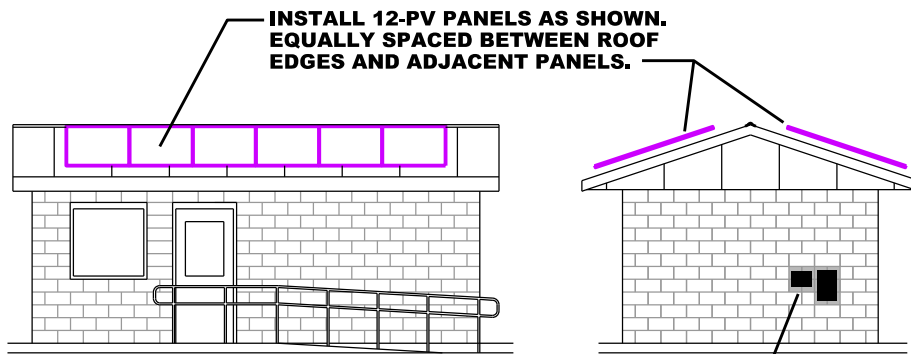
NOT TO SCALE





### PV SOLAR PLAN

SCALE 11x17 PRINT: 1" = 10'



APPROXIMATE LOCATION FOR UTILITY DISCONNECT BOX SHOWN SHADED VERIFY FINAL LOCATION WITH MASON AND ELECTRICAL CONTR. BEFORE INSTALLATION

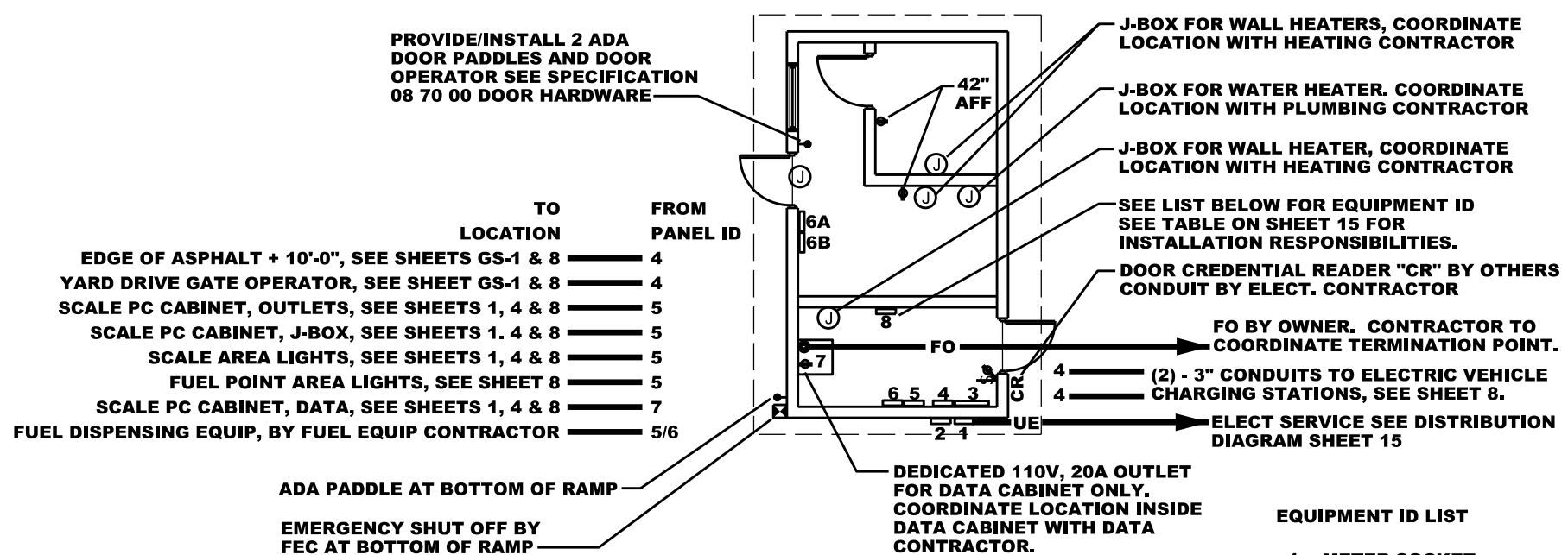
NOTE: OPPOSITE ELEVATIONS SIMILAR FOR PANEL LOCATIONS ONLY.

### PV WEST ELEV.

### PV SOUTH ELEV.

#### PV SOLAR INSTALLATION NOTES:

1. THE PV CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS AND SPECIFICATIONS ASSOCIATED WITH THIS CONTRACT PRIOR TO BIDDING THE CONTRACT.
2. THE PV CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING SPECIFICATION "26 31 00 PHOTOVOLTAIC SYSTEM PERFORMANCE REQUIREMENTS" AND ALL REFERENCED SPECIFICATIONS THERE-IN PRIOR TO BIDDING THIS CONTRACT.
3. THE PV CONTRACTOR SHALL PROVIDE ALL EQUIPMENT SUBMITTALS FOR APPROVAL AND THE APPROVED UTILITY INTERCONNECTION AGREEMENT PRIOR TO ORDERING ANY MATERIALS OR EQUIPMENT.
4. THE PV CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AS NEEDED PRIOR TO INSTALLING ANY EQUIPMENT.



### ELECTRICAL PLAN

SCALE 11x17 PRINT: 1" = 10'

NOTE: ALL WIRING AND CONDUITS SHALL BE TO PANEL 'A' UNLESS OTHERWISE NOTED.

EXHAUST FAN, COORDINATE LOCATION WITH HEATING CONTRACTOR

OCCUPANCY SENSOR, TYP. OF 3.

L2, LOCATE AS SHOWN ON ELEVATIONS SEE SHEET 10. COORDINATE INSTALLATION w/ THE MASONRY CONTRACTOR. TYP. OF 2.

L1, CENTER ON EACH AREA AS SHOWN. WIRE TO ROOM OCCUPANCY SENSOR. TYP. OF 4.

EXHAUST FAN, COORDINATE LOCATION WITH HEATING CONTRACTOR

TO GAS ISLAND AREA LIGHTS TYPE L3, TYP. OF 6

TO TRUCK SCALE AREA LIGHTS TYPE L3, TYP. OF 3

### REFLECTED CEILING PLAN

SCALE 11x17 PRINT: 1" = 10'

#### GENERAL NOTES:

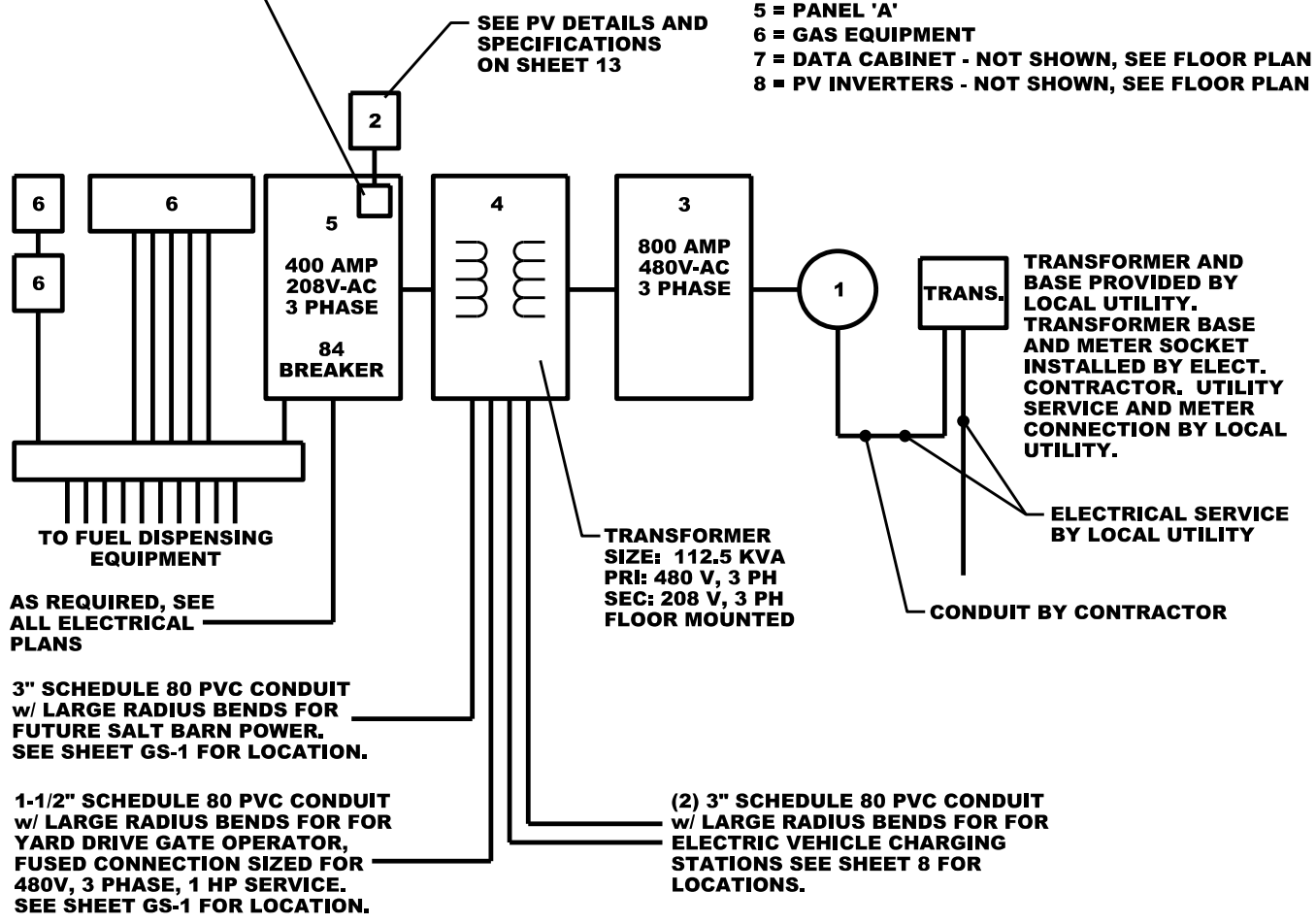
1. ALL WIRING AND CONDUITS SHALL BE TO PANEL 'A' UNLESS OTHERWISE NOTED.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL 3/4" FIRE PROOF PLYWOOD BACKER BOARDS FOR ALL PANELS, CABINETS AND FUEL DISPENSING EQUIPMENT. COORDINATE LOCATIONS WITH OTHER TRADES AS REQUIRED.

#### LIGHTING SCHEDULE:

- L1 = LITHONIA, CLX-L48-3000LM-SEF-WDL-120-GZ10-40K-80CRI-WH, SURFACE MOUNT TO CEILING
- L2 = SEE SHEET EL-100 FOR FIXTURE TYPE

DISTRIBUTION PANEL TO HAVE A 40 AMP BREAKER FOR PV PANEL INTERCONNECTION. PV BREAKER SHALL BE AS FAR AWAY AS POSSIBLE FROM THE MAIN CIRCUIT BREAKER. PROVIDE LABEL ON BREAKER THAT STATES "FOR PV SYSTEM".

- 1 = METER SOCKET
- 2 = UTILITY DISCONNECT FOR PV
- 3 = DISTRIBUTION PANEL
- 4 = TRANSFORMER
- 5 = PANEL 'A'
- 6 = GAS EQUIPMENT
- 7 = DATA CABINET - NOT SHOWN, SEE FLOOR PLAN
- 8 = PV INVERTERS - NOT SHOWN, SEE FLOOR PLAN



## ELECTRICAL DISTRIBUTION SCHEMATIC

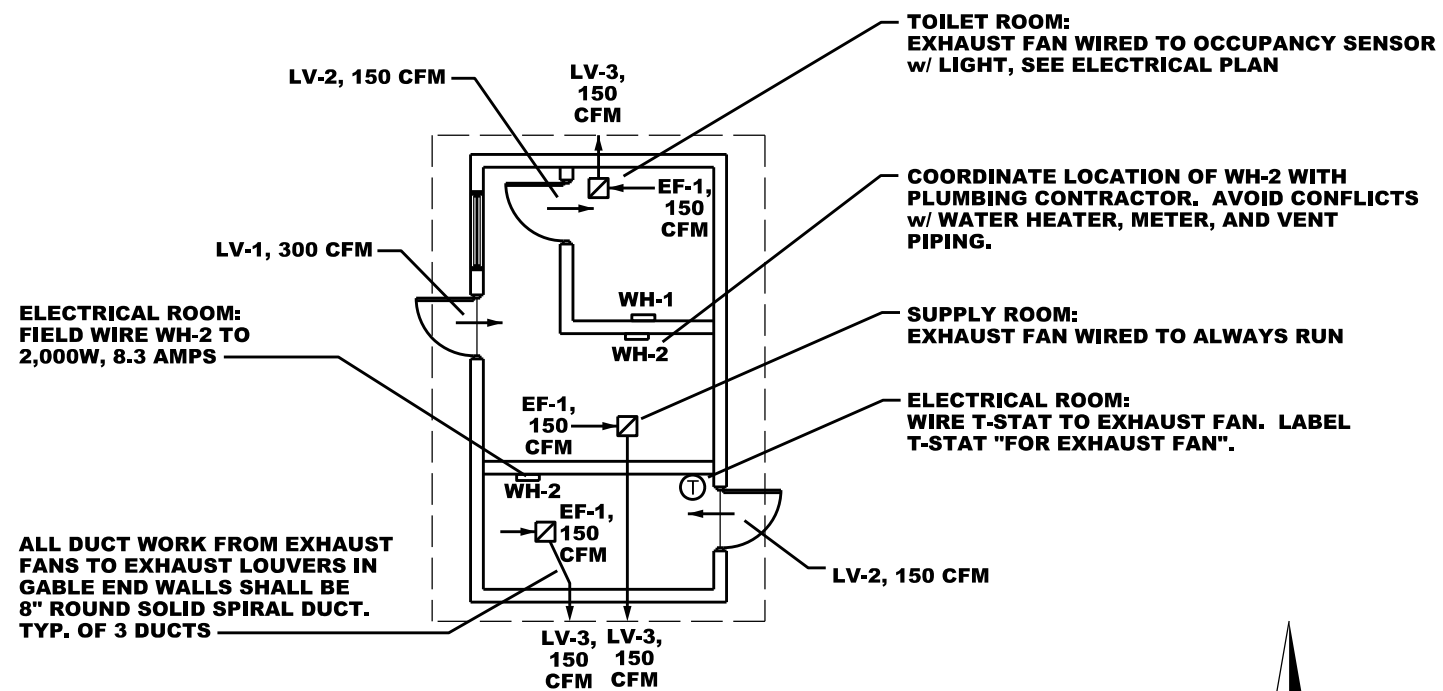
EQUIP. ID	NAME	PROVIDE	INSTALL	DESCRIPTION
1	METER SOCKET	ELECT.	ELECT.	AS REQUIRED BY LOCAL UTILITY
2	UTILITY DISCON.	PV	PV	AS REQUIRED BY LOCAL UTILITY
3	DIST. PANEL	ELECT.	ELECT.	SQUARE D, 400 AMP DISTRIBUTION PANEL w/ 42 CIRCUIT BREAKER CAPACITY, 450A BUS BAR
4	PANEL 'A'	ELECT.	ELECT.	SQUARE D, 200 AMP, 42 CIRCUIT BREAKER CAPACITY
5	PANEL 'B'	ELECT.	ELECT.	SQUARE, 200 AMP, 42 CIRCUIT BREAKER CAPACITY DEDICATED FOR FUEL EQUIPMENT ONLY
6	GAS EQUIP	GAS EQUIP	GAS EQUIP	ALL REQUIRED FUEL AUTOMATION AND DISPENSE MONITORING EQUIPMENT BY FUEL EQUIP. CONTRACTOR
7	DATA	ELECT.	ELECT.	EATON V-LINE WALL MOUNT CABINET, SEE ADDITIONAL SPECIFICATIONS ON THIS SHEET.
8	PV INVERT.	PV	PV	AS REQUIRED BY LOCAL UTILITY

### ELECTRICAL INSTALLATION NOTES:

1. THE ELECTRICAL CONTRACTOR AND FEC CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS AND SPECIFICATIONS ASSOCIATED WITH THIS CONTRACT PRIOR TO BIDDING THE CONTRACT.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PANELS, CONDUITS, AND WIRING AND OTHER RELATED MATERIALS REQUIRED FOR A CODE COMPLIANT INSTALLATION FOR THIS CONTRACT EXCEPT WHERE NOTED AS WORK BY OTHERS.
3. THE FUEL EQUIPMENT CONTRACTOR (FEC) SHALL BE RESPONSIBLE FOR ALL CONDUITS, WIRING, AND OTHER RELATED MATERIALS REQUIRED FOR A CODE COMPLIANT INSTALLATION OF FUEL DISPENSING AND CONTROL EQUIPMENT FOR THIS CONTRACT.
4. ALL CONTRACTORS SHALL PROVIDE SUBMITTALS FOR EQUIPMENT AND MATERIALS TO THE OWNER FOR APPROVAL PRIOR TO ORDERING ANY MATERIALS OR EQUIPMENT.
5. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO INSTALLING ANY EQUIPMENT.
6. ALL CONDUIT, FITTINGS, PULL BOXES, AND OTHER RELATED MATERIALS SHALL BE SCHEDULE 80 UNLESS OTHERWISE NOTED. ALL BURIED BENDS SHALL BE LARGE RADIUS SWEEPS. NO BURIED PULL BOXES WILL BE PERMITTED.
7. ALL OUTLETS TO BE GFCI UNLESS OTHERWISE NOTED.
8. ALL CONTROL WIRING SHALL BE IN SEPARATE CONDUIT FROM LINE VOLTAGE.

### DATA EQUIPMENT INSTALLATION NOTES:

1. THE ELECTRICAL CONTRACTOR AND FEC CONTRACTOR SHALL REVIEW ALL PLANS AND DETAILS FOR WORK ASSOCIATED WITH DATA AND CONTROLS CABLING.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL OF THE DATA/CONTROL CONDUITS (ONLY) FOR THE FOLLOWING WORK. DATA/CONTROL WIRING SHALL BE BY OTHERS EXCEPT WHERE NOTED:
  - A. DATA CONDUITS TO THE SCALE
  - B. DATA CONDUIT FOR FUTURE SALT BARN
  - C. DATA CONDUITS FROM THE DATA CABINET TO GAS EQUIPMENT CABINETS LOCATED WITHIN THE GAS HUT
  - D. CONTROL CONDUITS FROM THE DATA CABINET TO THE DOOR CONTROL HARDWARE
3. THE FUEL EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DATA/CONTROL CONDUITS AND DATA/CONTROL WIRING NECESSARY FOR A COMPLETE INSTALLATION OF THE FUEL DISPENSING SYSTEM. SEE SPECIFICATION 23 10 00 "FUEL DISPENSING" IN EXHIBIT B OF THE CONTRACT DOCUMENTS.
4. THE CITY OF MADISON SHALL BE RESPONSIBLE FOR PROVIDING THE FIBER OPTIC SERVICE AND ALL RELATED MATERIALS AND EQUIPMENT UP TO THE DATA CABINET SHOWN ON THE ELECTRICAL PLANS. THE CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING THE TERMINATION POINT WITH THE CITY PRIOR TO THE GAS HUT FOOTING/FOUNDATION BEING INSTALLED.
5. THE CITY OF MADISON DATA/CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE FOLLOWING WORK:
  - A. MOUNTING DATA CABINET TO ELEC. CONTRACTOR INSTALLED PLYWOOD BACKER BOARD.
  - B. ALL EQUIPMENT MODULES NEEDED FOR THE CARD ACCESS READERS.
  - C. ALL DATA/CONTROL CABLING IN CONDUIT INSTALLED BY THE ELECTRICAL CONTRACTOR
6. ALL CONTRACTORS SHALL PROVIDE EQUIPMENT SUBMITTALS FOR APPROVAL PRIOR TO ORDERING ANY MATERIALS OR EQUIPMENT.
7. THE GC SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK FOR ALL TRADES INCLUDING WORK PERFORMED BY THE OWNER OR OWNER PROVIDED CONTRACTORS.
8. ALL CONDUIT, FITTINGS, PULL BOXES, AND OTHER RELATED MATERIALS SHALL BE SCHEDULE 80 UNLESS OTHERWISE NOTED. ALL BURIED CONDUIT SHALL USE LARGE RADIUS SWEEPS. NO BURIED PULL BOXES WILL BE PERMITTED.
9. DATA CABINET: EATON V-LINE WALL MOUNTED CABINET ENCLOSURE, 36" TALL, 25" WIDE, 25" DEEP, w/ RCI ELECTRONIC LOCKING HANDLE ON FRONT DOOR.
  - A. ALL SWITCHES AND SERVERS PROVIDED BY CITY OF MADISON IT DEPARTMENT, INSTALLED AND CONNECTED BY THE CITY DATA/CONTROL CONTRACTOR. GC SHALL COORDINATE SCHEDULING THROUGH THE CITY PROJECT MANAGER.
  - B. CITY DATA/CONTROL CONTRACTOR SHALL PROVIDE AND INSTALL APPROPRIATE KEY SCAN DOOR SECURITY DEVICES INSIDE THE DATA CABINET, ELECTRICAL ROOM AND FOR DOOR 3 AS NOTED IN THE PLANS AND SPECIFICATION. SEE EXHIBIT B SPECIFICATION 28 13 00 "ACCESS CONTROL SYSTEM (KEYSCAN) FOR MORE INFORMATION. COORDINATE ACCESS SECURITY CODE SETUP THROUGH THE CITY PROJECT MANAGER.



## HEATING AND VENTILATING PLAN

SCALE 11x17 PRINT: 1" = 10'



LOUVER SCHEDULE					
ID	TYPE	CFM	SIZE (IN.)	QTY.	REMARKS
LV-1	DOOR	300	24Wx12H	1	NATIONAL GUARD L-700-RX-24x12, INVERTED V-NO VISION, PRIMED GREY, PAINT TO MATCH DOOR
LV-2	DOOR	150	24Wx12H	2	NATIONAL GUARD L-700-RX-24x12, INVERTED V-NO VISION, PRIMED GREY, PAINT TO MATCH DOOR
LV-3	GABLE END	150	18Wx16H	3	KEES, MODEL 'L', FREE AREA 0.61 SF, PRESSURE DROP 0.02", BLACK, w/ BIRD & INSECT SCREEN

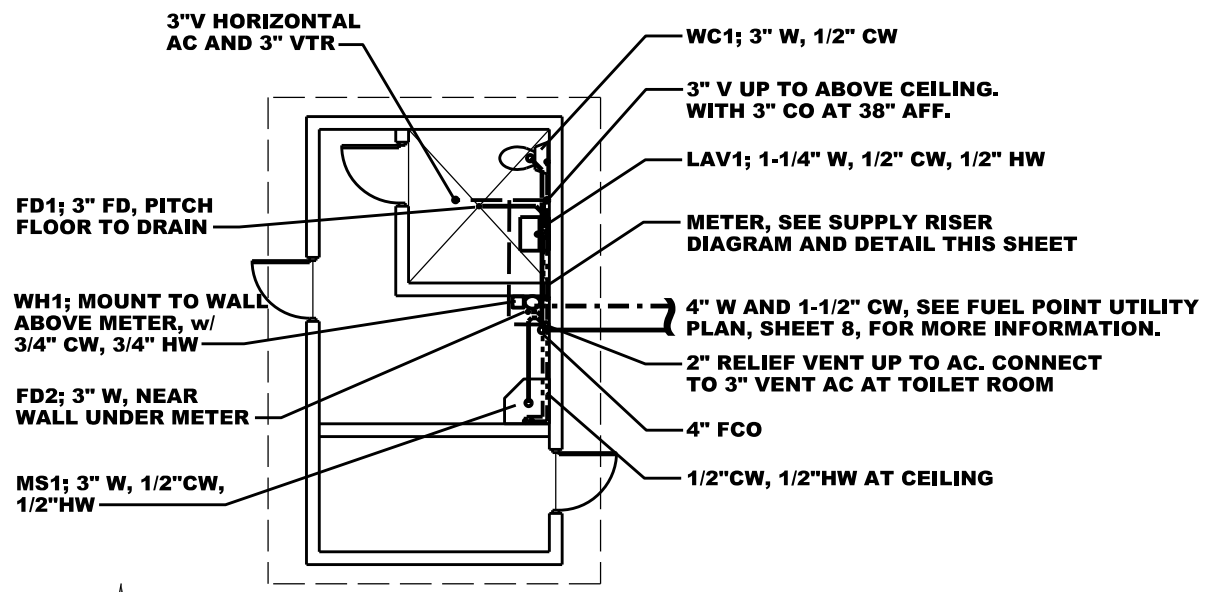
EXHAUST FAN SCHEDULE					
ID	TYPE	CFM	QTY.	REMARKS	
EF-1	CEILING	150	3	GREENHECK, SP-A200, 115/1, 900 RPM, 0.5" PD, 0.5 BHP, 150 CFM (ADJUSTABLE FROM 68 TO 267) 3.5 SONES, 26.1 WATTS, w/ VIBRATION KIT	

WALL HEATER SCHEDULE					
ID	TYPE	WATTS	BTU/HR	QTY.	REMARKS
WH-1	WALL MTD.	3,000	10,235	2	Q-MARK AWH-4407W, 240/1, 12.5 AMPS, w/ INTEGRAL T-STAT, WHITE
WH-2	WALL MTD.	4,000	13,650	1	Q-MARK AWH-4404, 240/1, 16.7 AMPS, w/ INTEGRAL T-STAT, WHITE

### HEATING AND VENTILATING INSTALLATION NOTES:

1. THE HEATING / VENTILATING CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS AND SPECIFICATIONS ASSOCIATED WITH THIS CONTRACT PRIOR TO BIDDING THE CONTRACT.
2. THE HEATING / VENTILATING CONTRACTOR SHALL PROVIDE ALL EQUIPMENT SUBMITTALS FOR APPROVAL PRIOR TO ORDERING ANY MATERIALS OR EQUIPMENT.
3. THE HEATING / VENTILATING CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AS NEEDED PRIOR TO INSTALLING ANY EQUIPMENT.
4. EACH WALL HEATER AND EXHAUST FAN SHALL BE WIRED TO PANEL 'A' ON SEPERATE DEDICATED CIRCUIT.
5. ALL EXHAUST GRILLES FOR EXHAUST FANS SHALL BE MOUNTED IN GABLE END WALLS. COORDINATE WITH CONTRACTOR INSTALLING METAL SIDING. INSTALLATION TO BE PROPERLY INSTALLED, FLUSH WITH SIDING AND TRIMMED FOR A NEAT APPEARANCE.

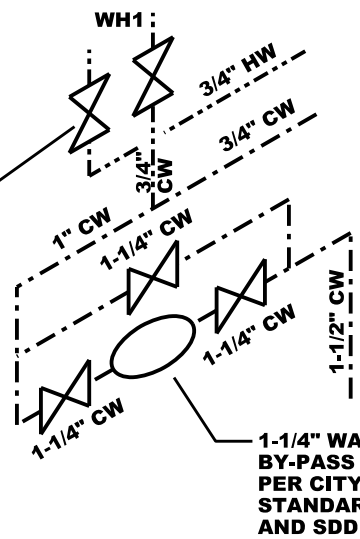
FIXTURE	D F U	H-S F U	C-S F U	DESCRIPTION
WC1	6	0	2	AMERICAN STANDARD, CADET 1.28 GPF, 215AA.709, WHITE, w/ ELONGATED BOWL, 4000.709 TOUCHLESS TANK w/ SENSOR, w/ OPEN ELONGATED SEAT NO LID, WHITE, ANTIMICROBIAL SURFACE
LAV1	1	0.5	0.5	KOHLER, K-2032-O, WALL MOUNT, WHITE, w/ 4" FAUCET CENTERSET, AMERICAN STANDARD FAUCET 6059.205, w/ POWER KIT PK00.CRP, w/ MIXING VALVE 605XTMV1070
FD1	4	0	0	ZURN, SIOUX CHIEF, OR APPROVED EQUAL, 3" WASTE, POLISHED NICKEL BRONZE STRAINER, PITCH TOILET ROOM FLOOR TO DRAIN
FD2	4	0	0	ZURN, SIOUX CHIEF, OR APPROVED EQUAL, 3" WASTE, POLISHED NICKEL BRONZE STRAINER, SLIGHT FLOOR DEPRESSION BELOW WATER METER AND WATER HEATER
WH1	0	0	0	RHEEM RTEK-27 ELECTIC - TANKLESS WATER HEATER, 27kW 208V 112 A, FLOW = 6.0 GPM, WALL MOUNTED
FCO	0	0	0	ZURN, SIOUX CHIEF, OR APPROVED EQUAL, 4", POLISHED NICKEL BRONZE
MS1	2	2	2	ZURN, Z-5850 CUSTODIAL FLOOR SINK, CAST IRON, w/ 3" WASTE, RIM GUARD, w/ T&S BRASS B-0662 SERVICE SINK FAUCET FOR EXPOSED CEILING SUPPLY, POLISHED CHROME, w/ WALL PLATE AND HOSE THREADED VACUUM BREAKER
TOTAL	17	2.5	4.5	



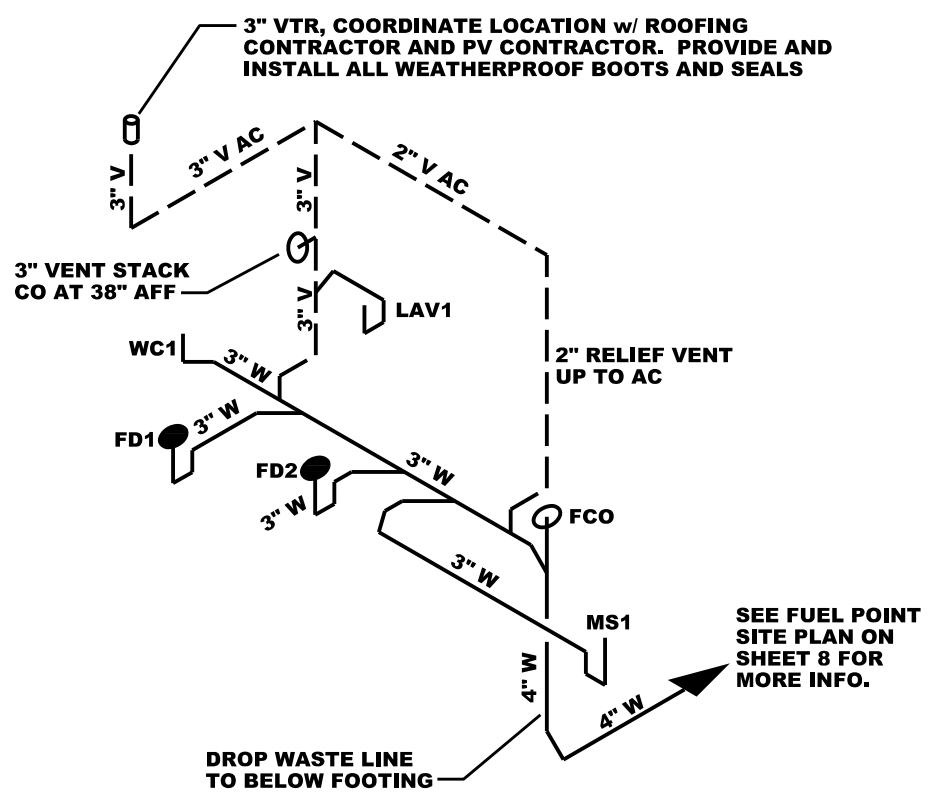
**PLUMBING PLAN**  
 SCALE 11x17 PRINT: 1" = 10'



BALL VALVE SHUT-OFF. TYPICAL ALL FIXTURES. SIZED FOR THE PIPE IT CONTROLS.



**ENLARGED METER DETAIL**  
 NOT TO SCALE



**PLUMBING RISER DIAGRAMS**

**PLUMBING INSTALLATION NOTES:**

1. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS AND SPECIFICATIONS ASSOCIATED WITH THIS CONTRACT PRIOR TO BIDDING THE CONTRACT.
2. THE PLUMBING CONTRACTOR SHALL PROVIDE SUBMITTALS FOR REVIEW OF ALL FIXTURES AND MATERIALS BEING INSTALLED PRIOR TO ORDERING ANY FIXTURES OR MATERIALS.
3. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AS NEEDED PRIOR TO INSTALLING ANY FIXTURES OR MATERIALS.
4. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED FIXTURES, TRIM, AND MATERIALS FOR A COMPLETE CODE COMPLIANT INSTALLATION.
5. ALL CW, HW PIPING INSIDE OF THE GAS HUT SHALL BE RUN EXPOSED EXCEPT WHERE PENETRATING THE TOILET ROOM WALL. ALL PIPING PENETRATIONS THROUGH WALLS AND CEILINGS SHALL BE FIRE STOPPED AND TRIMMED WITH ESCUTCHEON PLATES ON ALL FINISHED SURFACES.
6. ALL CW AND HW PIPING SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATION WITH INTEGRAL VAPOR BARRIER.

AFF	ABOVE FINISHED FLOOR	V	VENT
AC	ABOVE CEILING	VTR	VENT THRU ROOF
CW	COLD WATER	W	WASTE
CO	CLEANOUT	WC	WATER CLOSET
FCO	FLOOR CLEAN OUT	WH	WATER HEATER
FD	FLOOR DRAIN	⊗	BALL VALVE
HW	HOT WATER	- - - -	COLD WATER PIPE
LAV	LAVATORY (SINK)	- · - · - ·	HOT WATER PIPE
MS	MOP SINK	- - -	VENT PIPE
SDD	STANDARD DETAIL DRAWING	- - - - -	WASTE PIPE

