

CONSTRUCTION DRAWINGS FOR UNIT WELL 12 RECONSTRUCTION FOR MADISON WATER UTILITY MADISON, WISCONSIN



Project Owner

MADISON, WISCONSIN
UNIT WELL 12 RECONSTRUCTION

801 S. Whitney Way
Madison WI 53711

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SEH Project MADWU 182222
Checked By IS
Drawn By DD

Project Status Issue Date
DNR SUBMITTAL 6/30/2025

REVISION SCHEDULE
REV. # DESCRIPTION DATE

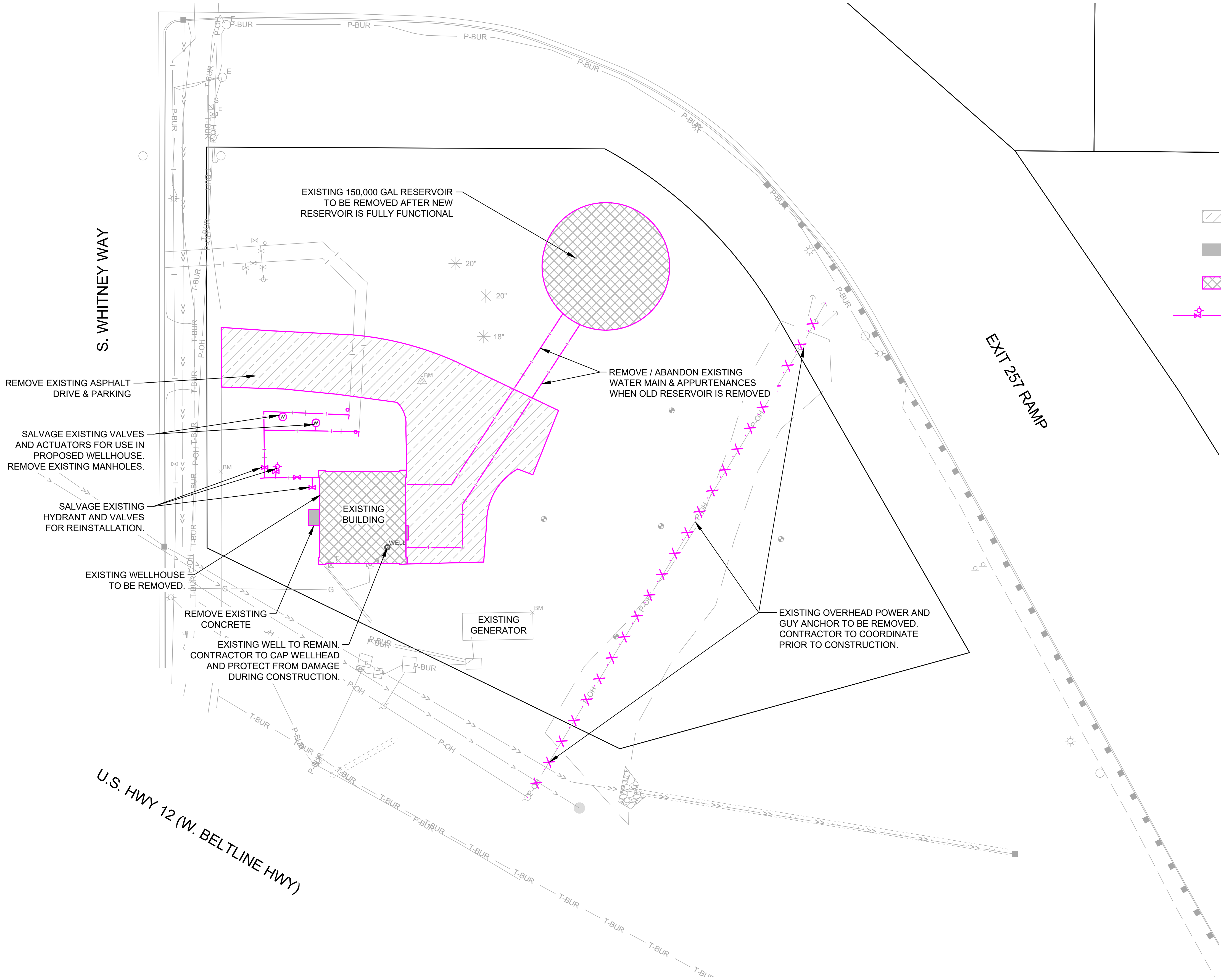
TITLE SHEET

G001



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REMOVALS

-  BITUMINOUS DRIVE REMOVAL
-  CONCRETE PAVEMENT REMOVAL
-  STRUCTURE REMOVAL
-  WATER MAIN & APPURTENANCES REMOVAL



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SEH Project	MADWU_182222
Checked By	KB
Drawn By	PAL

Project Status	Issue Date
DNR SUBMITTAL	06/30/2025
CITY SUBMITTAL	09/22/2025

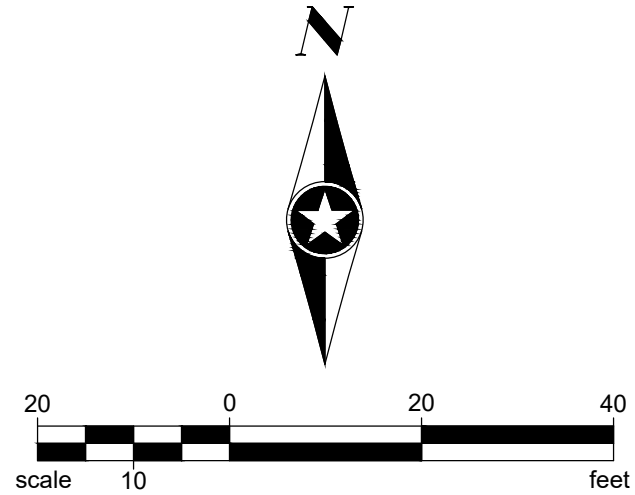
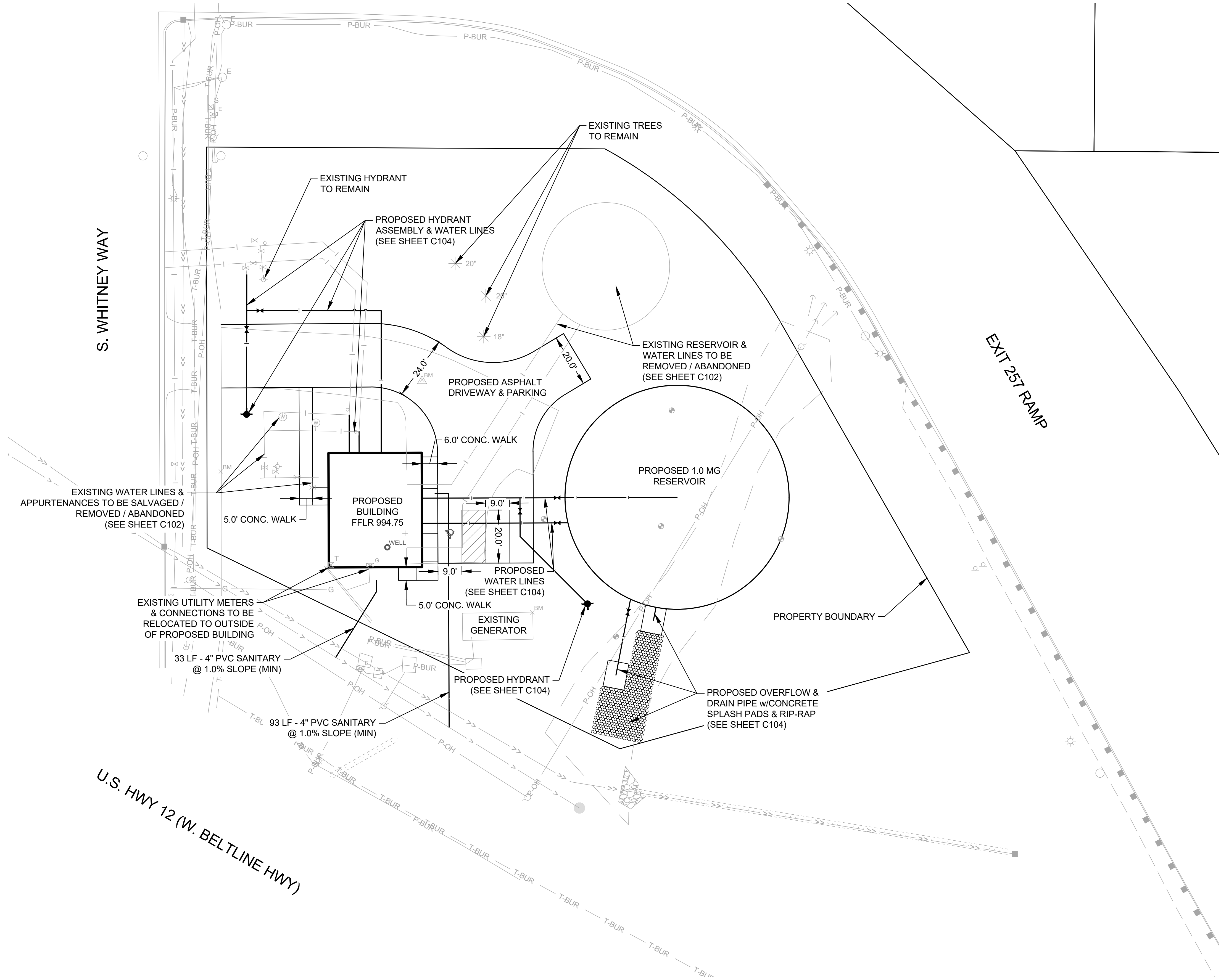
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REV. #	DESCRIPTION	DATE

REMOVALS PLAN

C102

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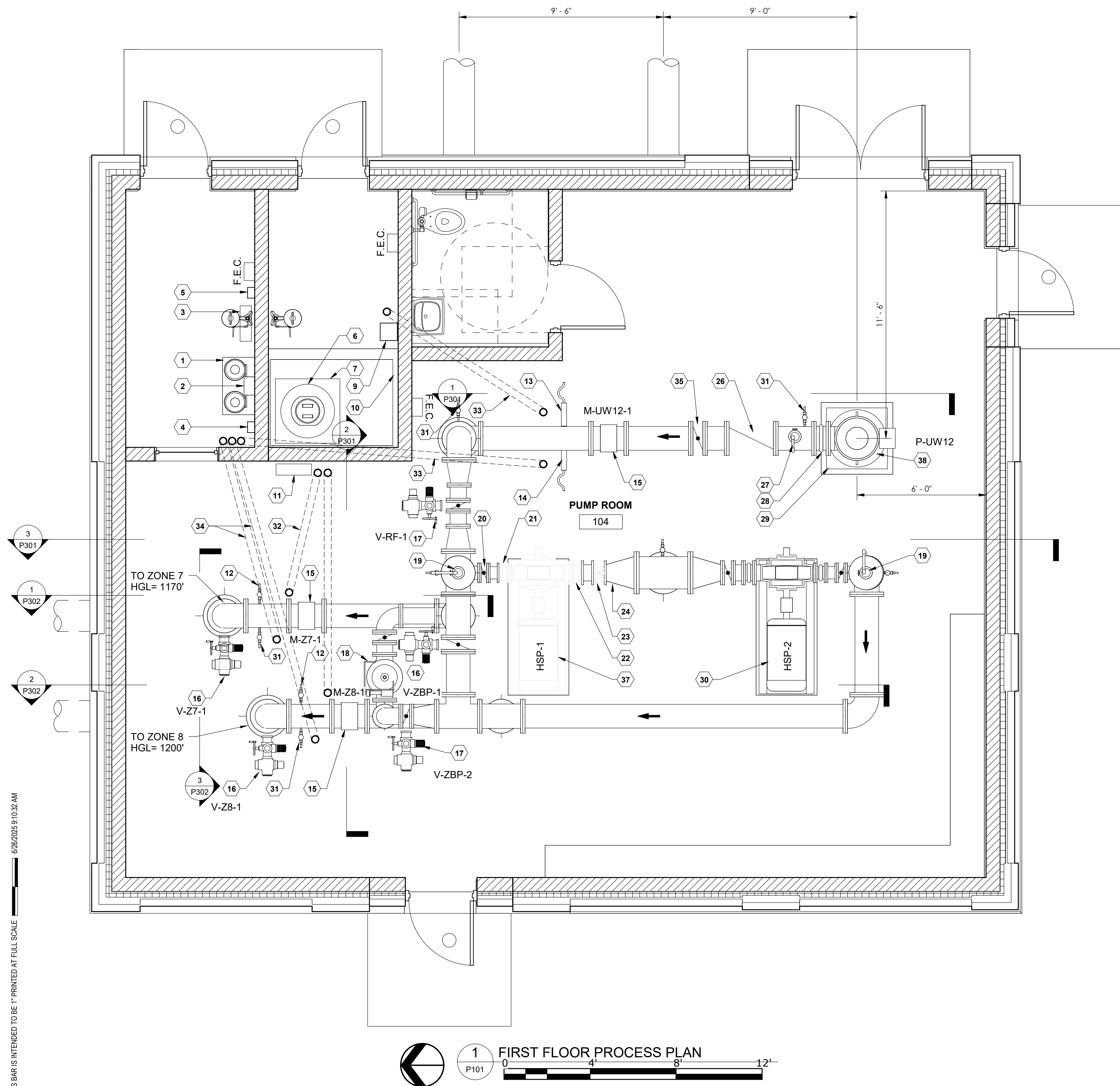
SITE PLAN

C101

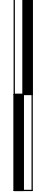
KEYNOTES:

- 1 DUAL CYLINDER PLATFORM WITH INDICATOR
- 2 GAS CHLORINE FEED SYSTEM - SEE DETAIL E/DP1
- 3 EMERGENCY CHLORINE SHUTOFF PANEL
- 4 CHLORINE GAS DETECTOR
- 5 LOSS OF VACCUUM DETECTOR
- 6 165 GALON FLUORIDE TANK
- 7 36" x 36" SCALE PLATFORM
- 8 DIGITAL SCALE INDICATOR
- 9 FLUORIDE METERING PUMP - SEE DETAIL F/DP1
- 10 16" HIGH CHEMICAL CONTAINMENT WALL
- 11 CHLORINE ANALYZER - ROTATE PIPING AS REQUIRED
- 12 TAP PIPE FOR 1/2" CHLORINE ANALYZER SUPPLY - INSTALL 1/2" BALL VALVE - ROUTE PIPE TO CHLORINE ANALYZER
- 13 FLUORIDE INJECTION POINT - SEE DETAIL D/DP1
- 14 CHLORINE INJECTION POINT - SEE DETAIL D/DP1
- 15 12" MAGNETIC FLOW METER (FURNISHED BY OWNER)
- 16 12" BUTTERFLY VALVE W/ELECTRIC ACTUATOR
- 17 8" BUTTERFLY VALVE W/ELECTRIC ACTUATOR
- 18 8" PRESSURE SUSTAINING/PRESSURE REDUCING VALVE (V-PSV/PRV-1)
- 19 AIR RELEASE VALVE - ROUTE VENT TO NEARBY HUB DRAIN SEE DETAIL A/DP1
- 20 6" BUTTERFLY VALVE
- 21 6" EXPANSION JOINT
- 22 8" EXPANSION JOINT
- 23 8" BUTTERFLY VALVE
- 24 16x8 ECCENTRIC REDUCER
- 25 12" BUTTERFLY VALVE
- 26 12" CHECK VALVE
- 27 AIR/VACUUM VALVE - ROUTE VENT TO NEARBY FLOOR DRAIN - SEE DETAIL A/DP1
- 28 12" EXPANSION JOINT
- 29 VERTICAL TURBINE WELL, PUMP, MOTOR AND PUMP BASE - SEE DP3 FOR DETAILS
- 30 HIGH SERVICE PUMP
- 31 SAMPLE TAP - SEE DETAIL B/DP2
- 32 4" CONDUIT WITH LONG SWEEP BENDS UNDER FLOOR FOR CHLORINE ANALYZER TUBING
- 33 4" CONDUIT WITH LONG SWEEP BENDS UNDER FLOOR FOR CHEMICAL FEED TUBING
- 34 4" CONDUIT WITH LONG SWEEP BENDS UNDER FLOOR FOR ALTERNATE CHLORINE FEED
- 35 12" BUTTERFLY VALVE W/HANDWHEEL
- 36 EMERGENCY SHOWER, TYP.
- 37 EXISTING HIGH SERVICE PUMP SALVAGED FROM EXISTING WELLHOUSE
- 38 EXISTING UW 12 DEEP WELL TO REMAIN, PROTECT FROM DAMAGE DURING CONSTRUCTION, SEE PUMP BASE DETAIL.
-CONTRACTOR TO FIELD VERIFY LOCATION

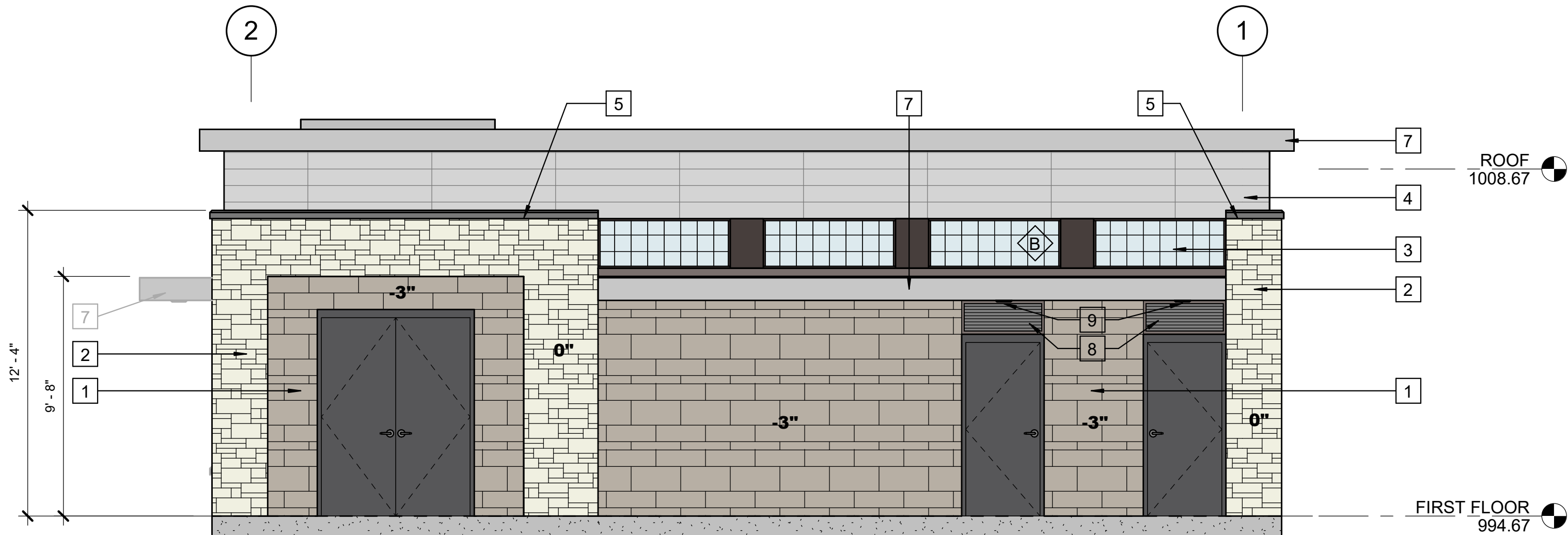
NOTE:
ENCASE BELOW FLOOR PIPING ACCORDING TO DETAIL K/DP1



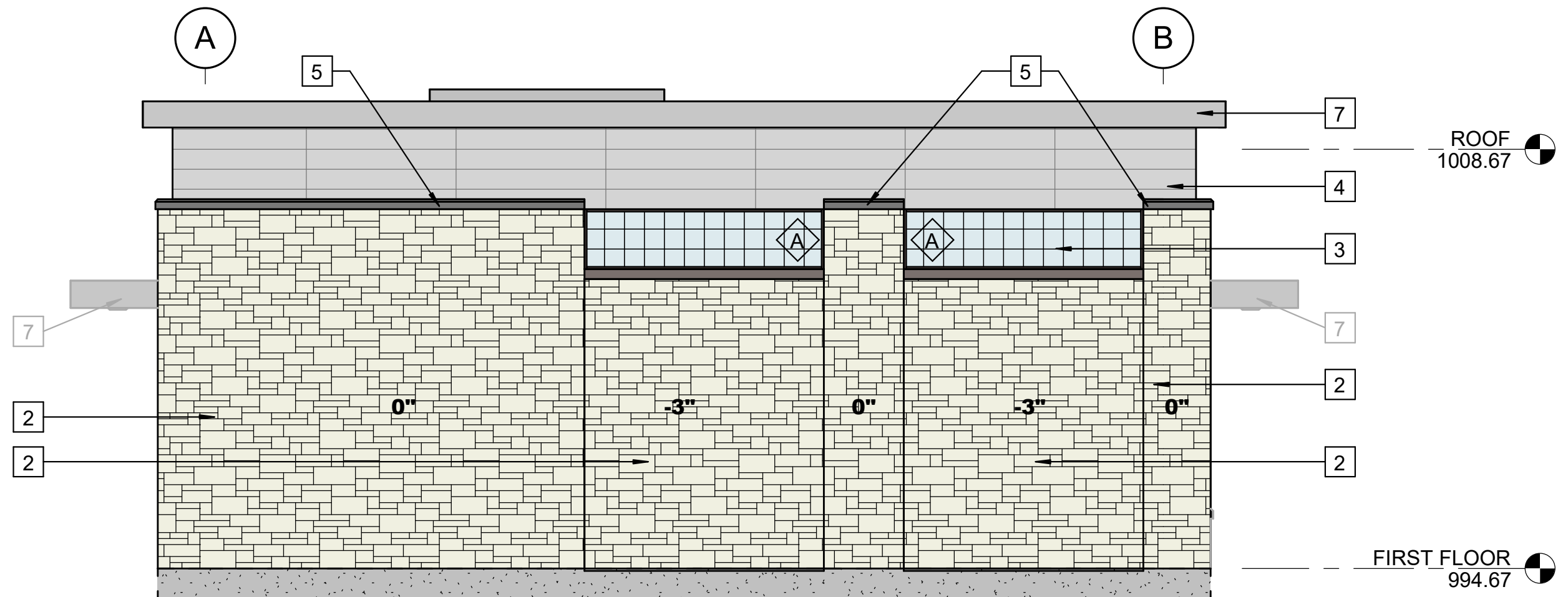
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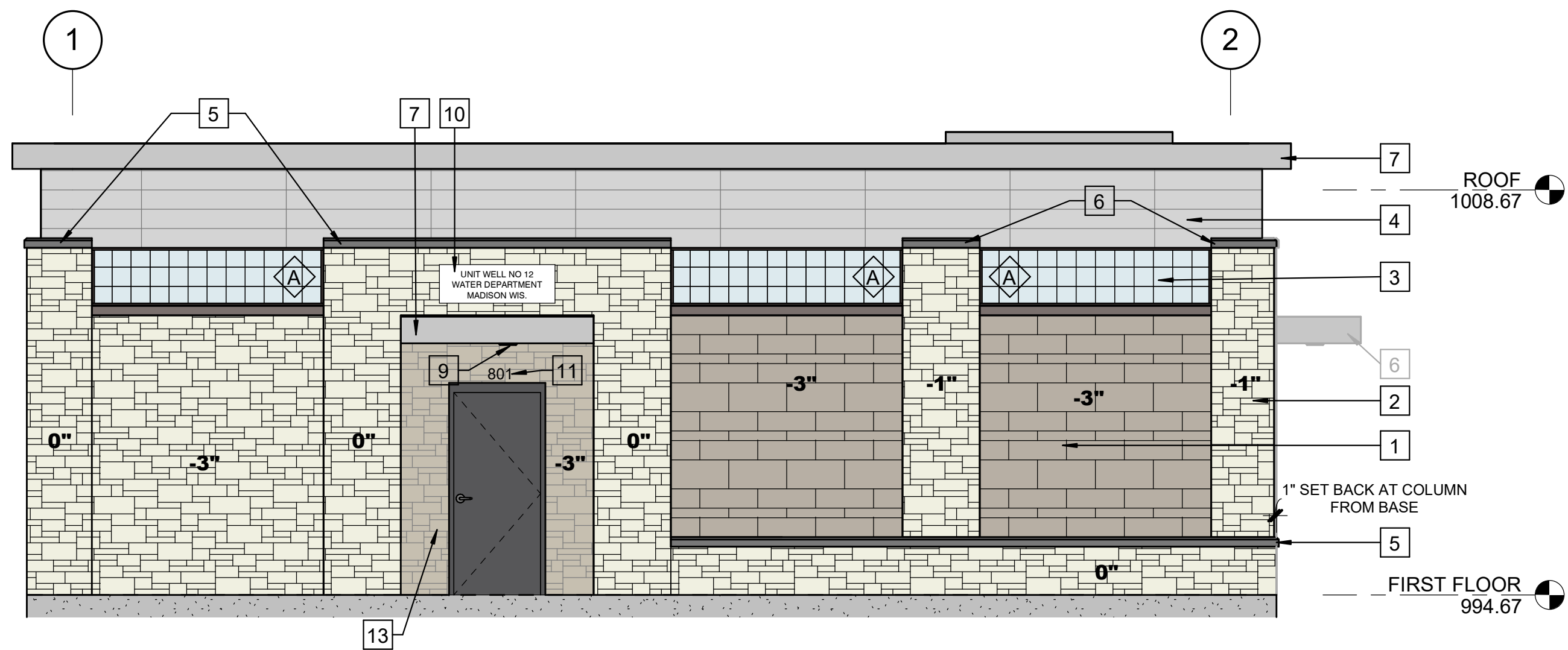
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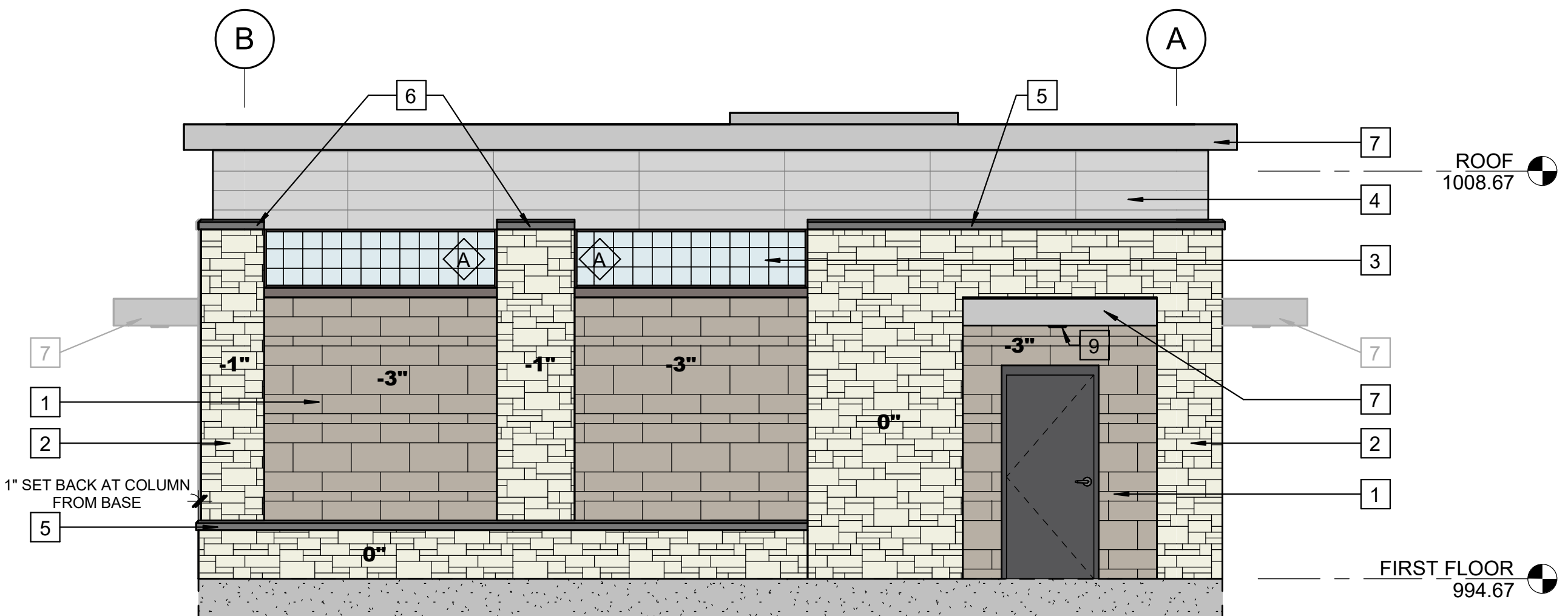
1 EAST ELEVATION
A201 1/4" = 1'-0"



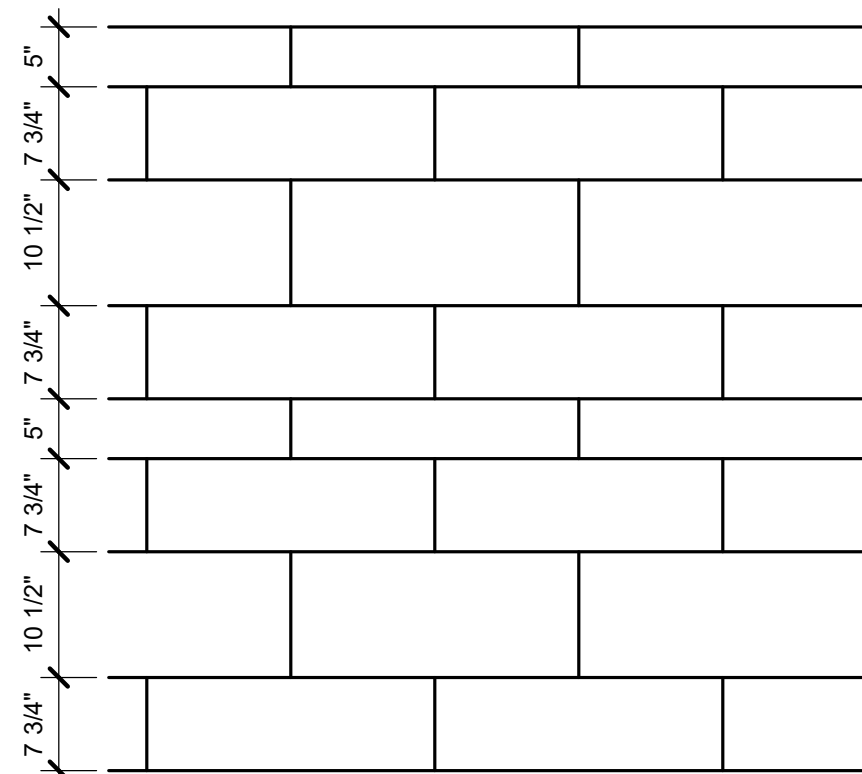
2 NORTH ELLEVATION
A201 1/4" = 1'-0"



3 WEST ELEVATION
A201 1/4" = 1'-0"



4 SOUTH ELEVATION
A201 1/4" = 1'-0"



NOTE: STONE LENGTHS VARY BETWEEN 8" AND 32".
STONE HEIGHT COURSING AS SHOWN ABOVE. SEE
SPECIFICATIONS FOR STONE TYPE

Exterior Stone Veneer Coursing

GENERAL NOTES:

1. ALL CAST STONE COPINGS PROJECT
NOMINALLY 1.5" BEYOND FACE OF STONE

KEY NOTES:

- | | | | |
|---|--|----|--|
| 1 | STONE VENEER 1 | 8 | LOUVER REFER TO DA6 |
| 2 | STONE VENEER 2 | 9 | SOFFIT LIGHT CENTER ON DOOR
REFER TO ELECTRICAL DRAWINGS |
| 3 | TRANSLUCENT FIBERGLASS
SANDWICH PANEL WALL SYSTEM | 10 | SALVAGED STONE SIGNAGE FROM
EXISTING BUILDING. CLEAN STONE
AND PAINT RECESSED LETTERING. |
| 4 | 8" H x 5'-0" LONG TERRA COTTA RAIN
SCREEN SYSTEM | 11 | BUILDING ADDRESS COORDINATE WITH
OWNER |
| 5 | CAST STONE COPING 1 | 12 | SALVAGED STONE VENEER FROM
EXISTING. BUILDING. |
| 6 | CAST STONE COPING 2 | | |
| 7 | METAL FASCIA | | |

NOTE: ALL DRAWING SCALES ARE FOR
PLANS PRINTED ON 34"x22" SHEETS



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WI, 53711

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SEH Project 182222
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Project Status Issue Date
DNR SUBMITTAL 6/30/2025

REVISION SCHEDULE

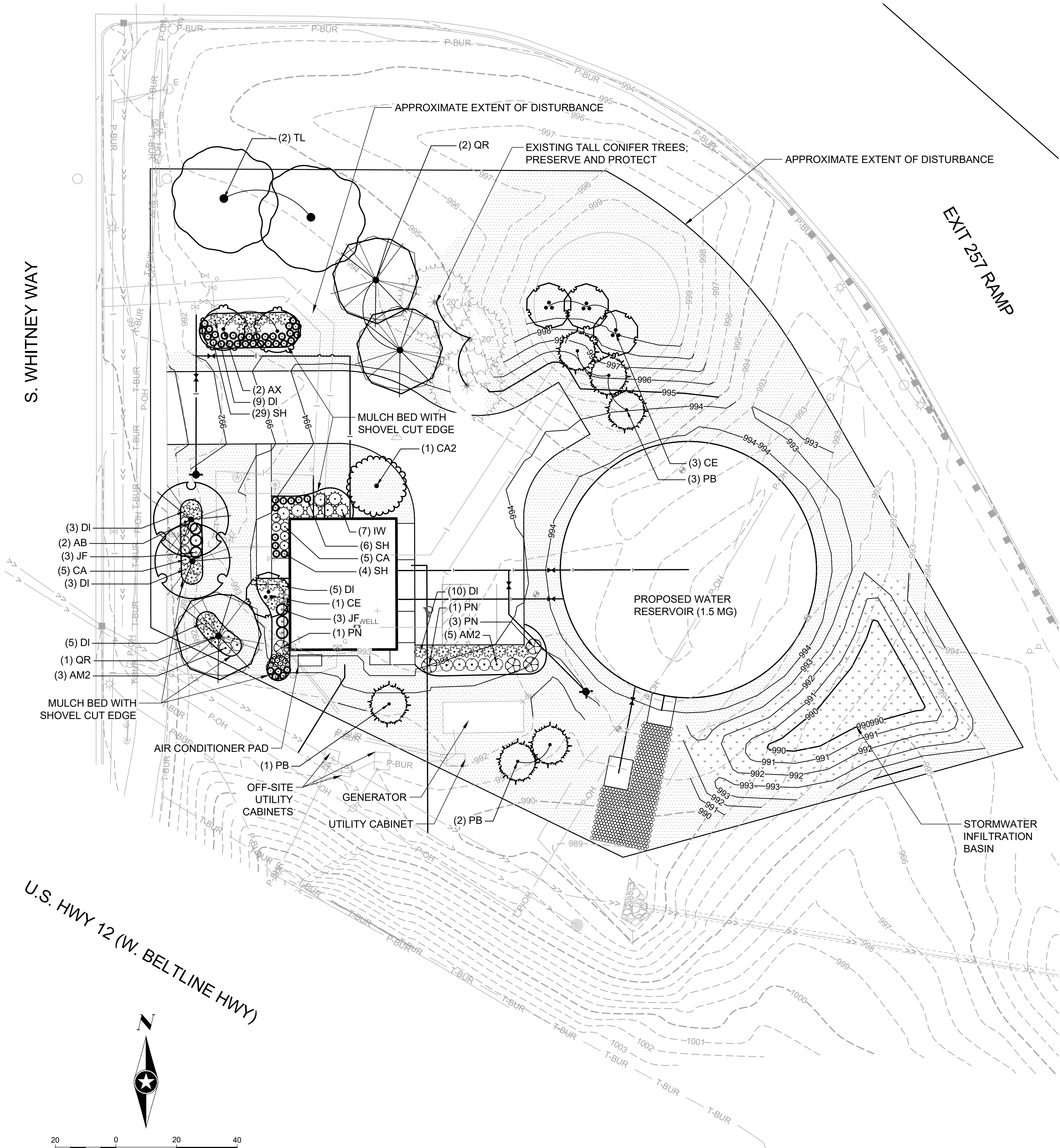
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EXTERIOR ELEVATIONS

01
A201

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PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	ROOT	QTY
TREES					
		EXISTING CONIFER			3
EVERGREEN TREES					
	PB	Picea glauca densata / Black Hills Spruce	6' Tall	B&B	6
ORNAMENTAL TREES					
	AX	Amelanchier x grandiflora / Apple Serviceberry	1.5" Cal		2
	CA2	Carpinus caroliniana / American Hornbeam	1.5" Cal	B&B	1
	CE	Cercis canadensis / Eastern Redbud Multi-trunk	6' Tall	B&B	4
OVERSTORY TREE					
	AB	Acer saccharum 'Bailsta' / Fall Fiesta® Sugar Maple	2.5" CAL	B&B	2
	QR	Quercus rubra / Red Oak	2" CAL	B&B	3
	TL	Tilia americana / American Linden	2" CAL	B&B	2
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	ROOT CONDITION	QTY
DECIDUOUS SHRUB					
	AM2	Aronia melanocarpa 'Morton' / Iroquois Beauty™ Black Chokeberry	5 gal.	CONTAINER	8
	CA	Ceanothus americanus / New Jersey Tea	3 gal.	CONTAINER	10
	DI	Diervilla lonicera / Bush Honeysuckle	3 gal.	CONTAINER	35
	HV	Hamamelis virginiana / Common Witch Hazel	36" T/W	CONTAINER	1
	IW	Ilex verticillata / Winterberry	5 gal.	CONTAINER	7
	PN	Physocarpus opulifolius / Ninebark	5 gal.	CONTAINER	5
EVERGREEN SHRUB					
	JF	Juniperus chinensis 'Sea Green' / Sea Green Juniper	5 gal.	CONTAINER	6
PERENNIALS					
	Ac	Asarum canadense / Wild Ginger	1 quart	CONTAINER	12
	SH	Sporobolus heterolepis / Prairie Dropseed	1 gal.	CONTAINER	44
SYMBOL	CODE	BOTANICAL / COMMON NAME			QTY
GROUND COVERS					
		LAWN SEED MIX WisDOT Seed Mix No. 40			21,292 sf
		STORMWATER SEED MIX Prairie Nursery "Detention Basin - Bioswale" Seed Mix, or approved equal. Apply per manufacturer's recommendation, minimum seeding rate 1/4 lb. per 1000 sq. ft.			3,501 sf



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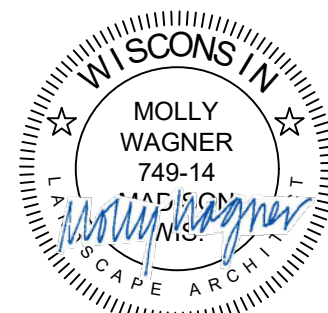
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LANDSCAPE PLAN

Project Owner

Madison Water Utility
UNIT WELL 12 RECONSTRUCTION

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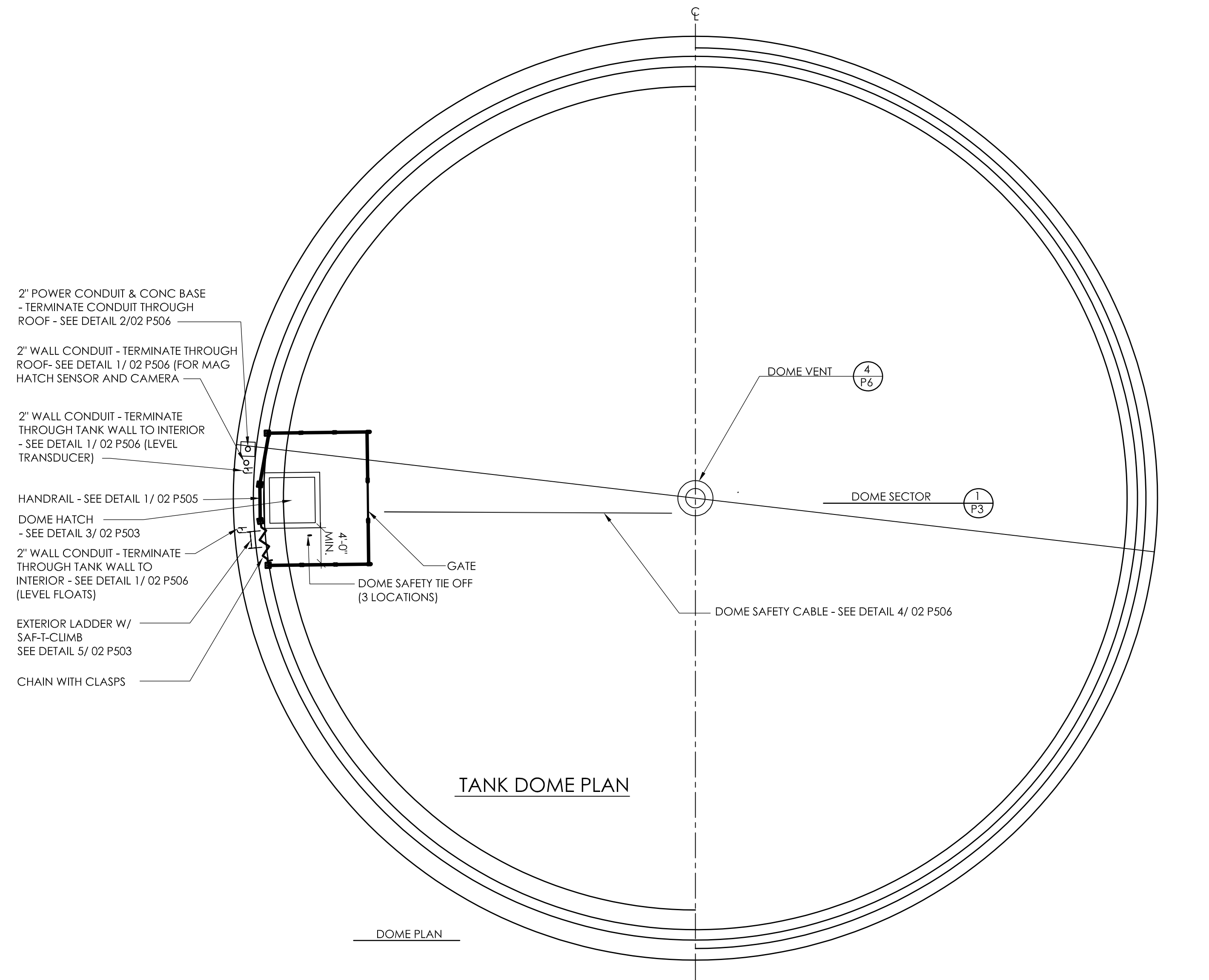
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WATER STORAGE TANK
PLAN & SECTION

02
P101



- NOTES:
1. FINAL LOCATION OF ALL PIPING AND APPURTENANCES TO BE DETERMINED BY THE ENGINEER.
 2. THE EXTERIOR DOME CONCRETE SURFACES SHALL RECEIVE ONE COAT OF TAMOSEAL AND ONE COAT OF TAMMSCOAT SMOOTH. THE EXPOSED EXTERIOR WALL CONCRETE SURFACES SHALL RECEIVE TWO COATS OF TAMMSCOAT SMOOTH. COLOR SHALL BE SELECTED BY OWNER - SEE SHEET A1 FOR COLOR ASSIGNMENTS
 3. ALL PIPING TO BE COATED PER DIVISION 9.

