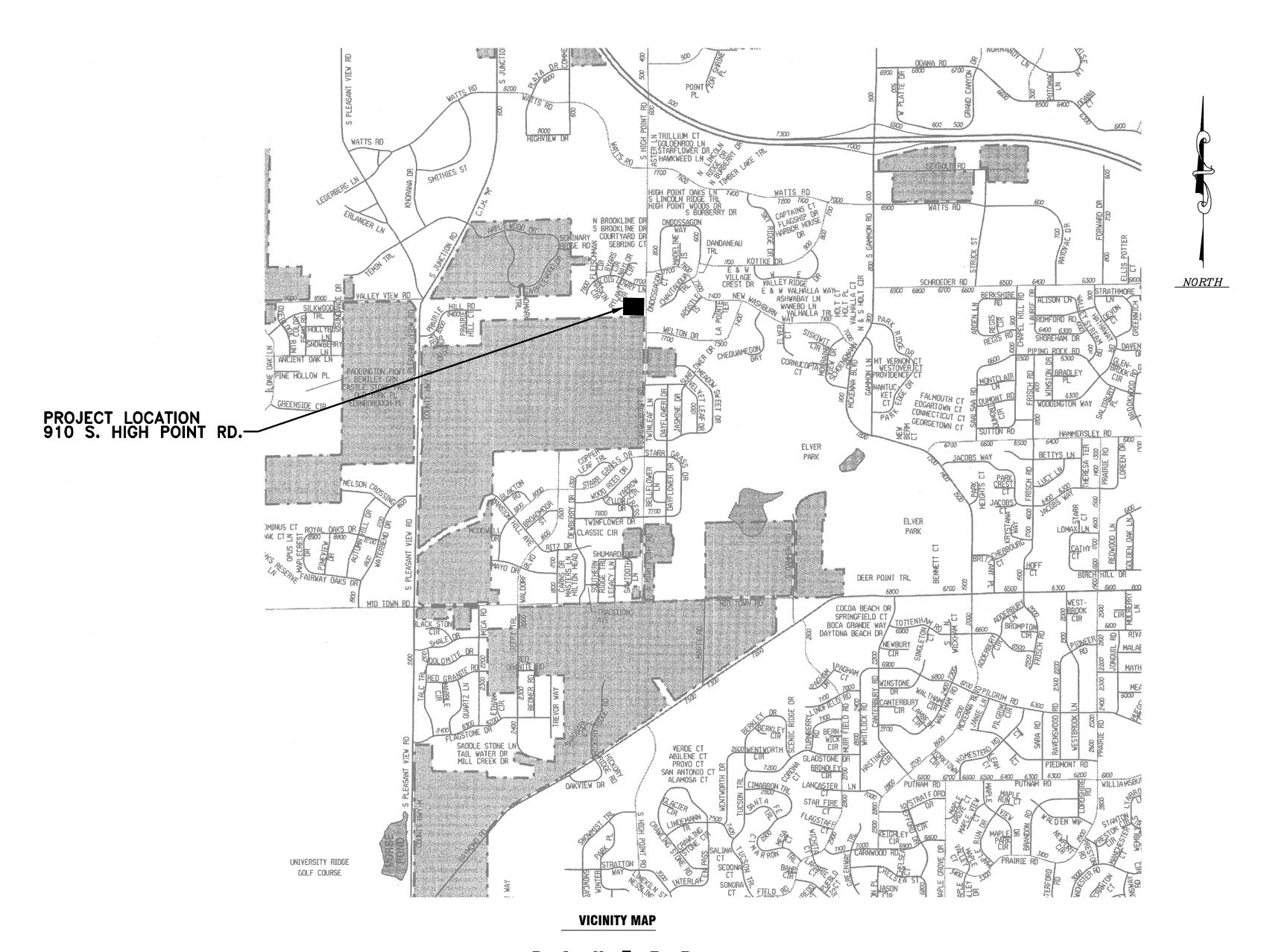
# MADISON WATER UTILITY

# MADISON, WISCONSIN UNIT WELL 26 GENERATOR ADDITION AND MCC UPGRADES





W O O D M A N

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Consulting Engineers
Crystal Lake, Illinois

Grayslake, Illinois Plainfield, Illinois 847.223.5088 815.609.7425

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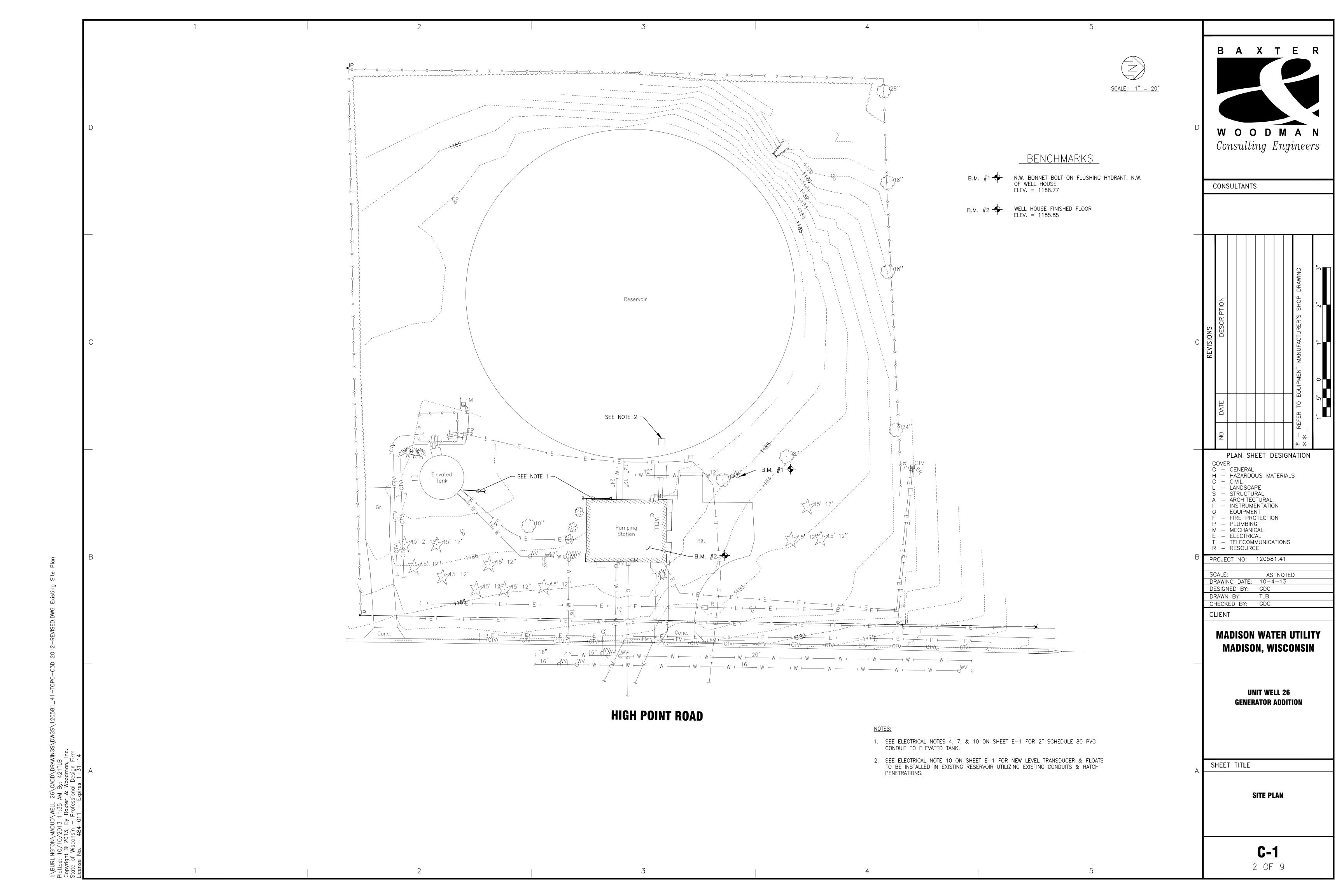
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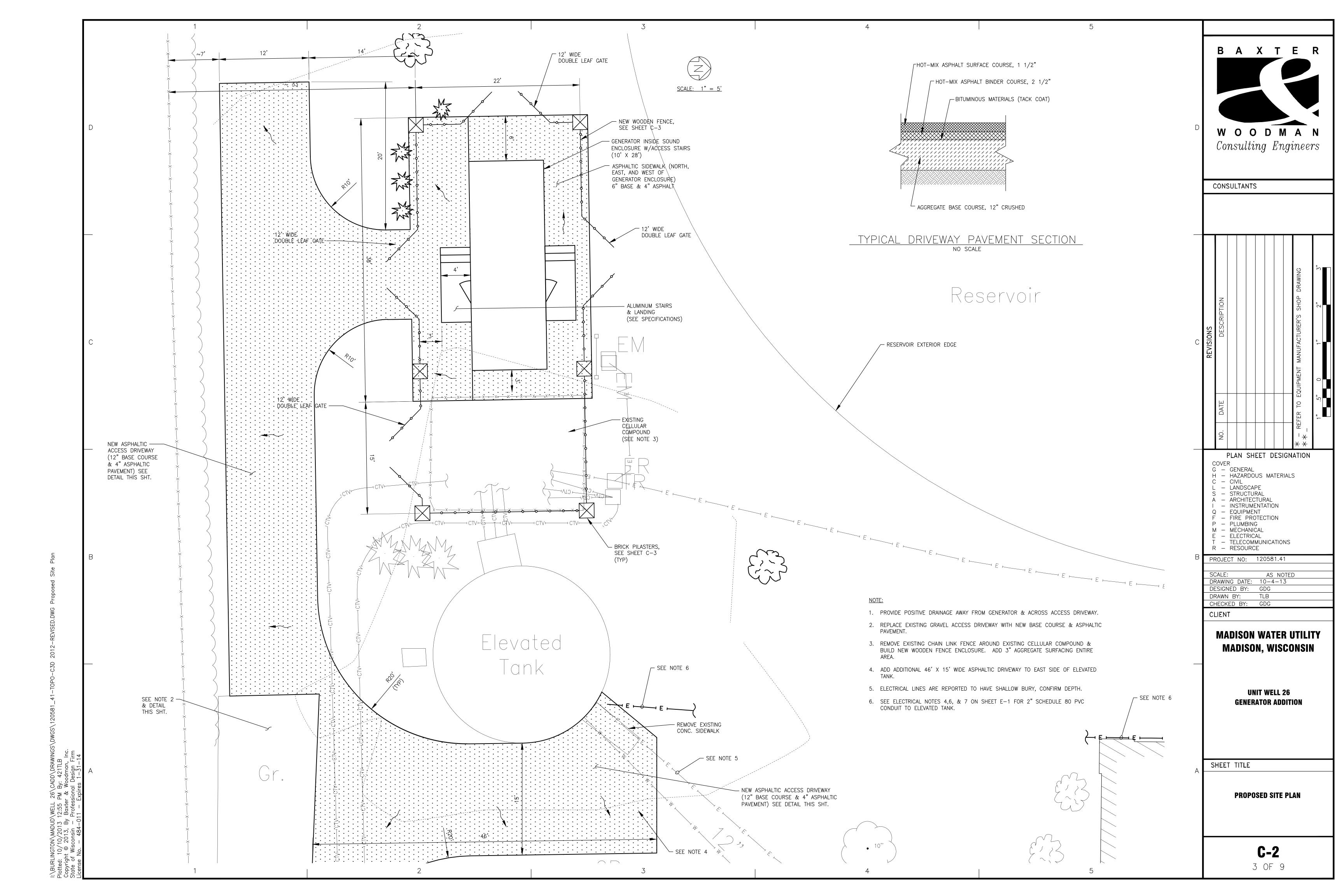
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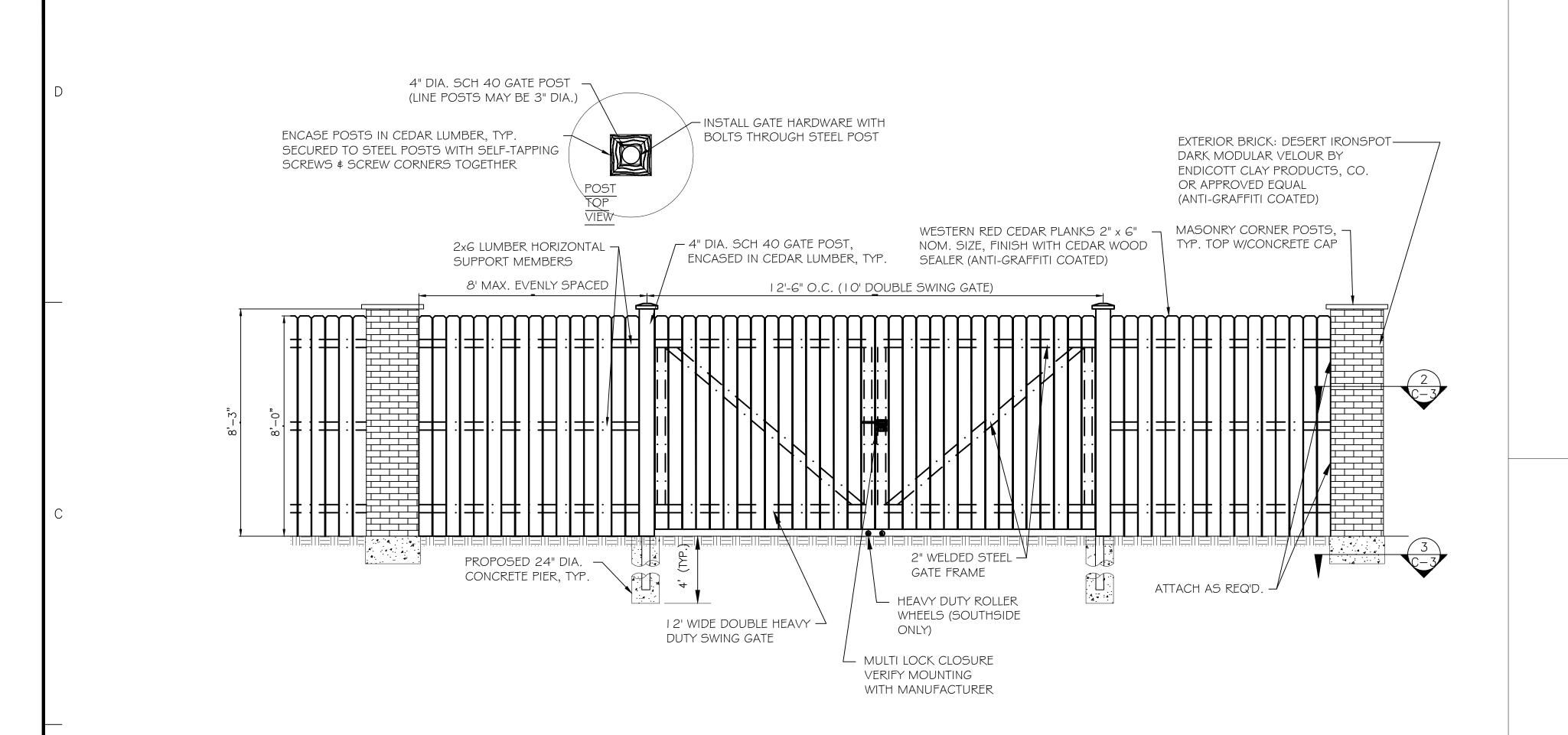
PROJECT NO.: 120581.41

DATE: 10-4-13

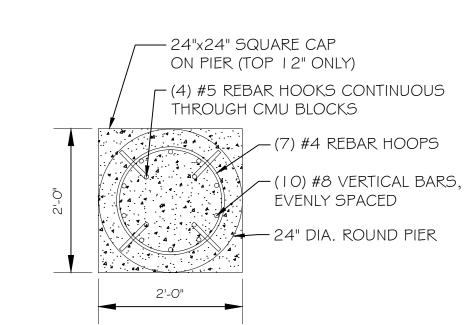
1		2		3	4	5	
EXISTING	<u>LEGEND</u>	PROPOSED	ABBREV	IATIONS_		INDEX	B A X T E R
	WORK BOUNDARY FENCE SILT FENCE	— WBF — — WBF— — SF— — SF—	CL CENTERLINE CONC PORTLAND CEMENT CONCRETE	R STRUCTURE TO BE RECONSTRUCTED A STRUCTURE TO BE ADJUSTED	TITLE	SHEET NO.  GENERAL CIVIL STRUCTURAL MECHANICAL ELECTRICAL	
—— SA —————————————————————————————————	SANITARY SEWER OR SERVICE STORM SEWER OR SERVICE WATER MAIN	—SA——SA— —ST——ST—	BIT BITUMINOUS PAVEMENT GR GRAVEL CMP CORRUGATED METAL PIPE	CENTRAL ANGLE  D= DEGREE OF CURVE  T= TANGENT LENGTH	LEGEND, ABBREVIATIONS, INDEX, GENERAL NOTES AND E	ENCHMARK G-1	
——————————————————————————————————————	WATER MAIN WATER SERVICE FORCE MAIN	W WS FM	FH FIRE HYDRANT CI CAST IRON	L= CURVE LENGTH R= RADIUS OF CURVE	SITE PLAN	C-1	
© ○	MANHOLE CATCH BASIN	<b>⊚</b>	DI DUCTILE IRON F-F FACE-TO-FACE	E= EXTERNAL DISTANCE SE= SUPERELEVATION (FT. PER FT. OF WIDTH)	PROPOSED SITE PLAN FENCE DETAILS	C-2 C-3	D W O O D M A N
	INLET DRYWELL		E-E EDGE-TO-EDGE B-B BACK-TO-BACK BM BENCH MARK	X = EXTERNAL DISTANCE OF VERTICAL CURVE	LANDSCAPE PLAN FLOOR PLAN	L-1 M-1	Consulting Engineers
	FLARED END SECTION		INV EL INVERT ELEVATION  CL EL CENTERLINE ELEVATION	PC POINT OF CURVATURE PI POINT OF INTERSECTION	ELECTRICAL PLAN ELECTRICAL DETAILS	E-1 E-2	
⊙ M∧ Q	FIRE HYDRANT WATER VALVE W/ BOX AND COVER	<b>∀</b> ⊙WV	P POINT G GUTTER	PT POINT OF TANGENCY POT POINT ON TANGENCY	ELECTRICAL SYMBOL LIST	E-3	CONSULTANTS
□ ⊙ BB	WATER VALVE VAULT WATER SERVICE BOX OR CURB STOP	■ ⊙ BB	C CURB BC BACK OF CURB EOP EDGE OF PAVEMENT	PCC POINT OF COMPOUND CURVATURE PRC POINT OF REVERSE CURVATURE VC VERTICAL CURVE			
□ WM ○ CO	WATER METER CLEAN OUT		PL PROPERTY LINE ROW RIGHT OF WAY	N&W NAIL AND WASHER TCE TEMPORARY CONSTRUCTION EASEMENT			
O SV	SEPTIC VENT TO BE ABANDONED AND/OR REMOVED	<del>-</del>	FL FLOW LINE TF TOP OF FRAME				<u> </u>
	GAS LINE		TC TOP OF CURB OR CONCRETE				
⊙ GV □ GVV	GAS VALVE W/ BOX AND COVER GAS VALVE VAULT						
□GM OGR ⊙GAS	GAS METER GAS RISER GAS SERVICE VALVE	□GM					
— T ———	TELEPHONE CABLE		BEN(	CHMARKS_			TITA
TD ———	TELEPHONE DUCT TELEPHONE VAULT		" OF WELL HOU	BOLT ON FLUSHING HYDRANT, N.W. USE			URER CALL
□ TR TV	TELEPHONE RISER  CABLE TELEVISION (BURIED)		ELEV. = 1188				C VISION DI
□ CTV □ CTV	CABLE T.V. RISER CABLE T.V. VAULT		B.M. #2 — WELL HOUSE ELEV. = 1185	FINISHED FLOOK 5.85			
— Е ——	UNDERGROUND ELECTRICAL						I BAREN (
□ EM	ELECTRIC METER PAD MOUNTED TRANSFORMER						
☐ ER ☐ EV ☐ JB	ELECTRICAL RISER BOX ELECTRIC VAULT JUNCTION BOX						DAT TER T
<u> </u>	UTILITY POLE w/ GUY ANCHOR						N N N N N N N N N N N N N N N N N N N
Ž,	UTILITY POLE w/ LIGHT LIGHT STANDARD	×					
□ MB	MAIL BOX STREET SIGN	, ,					COVER G - GENERAL H - HAZARDOUS MATERIALS
<b>⊕</b> ⊠	RAILROAD SIGNAL TRAFFIC SIGNAL CONTROLLER						C - CIVIL L - LANDSCAPE S - STRUCTURAL
0- >	TRAFFIC SIGNAL POST W/ SIGNAL HEAD HANDHOLE						A - ARCHITECTURAL I - INSTRUMENTATION Q - EQUIPMENT
12"	DECIDUOUS TREE (W/ TRUNK INCH DIA.	BE KEMOVED)					F - FIRE PROTECTION P - PLUMBING M - MECHANICAL
57 16' E3	CONIFEROUS TREE (W/ HEIGHT)  DECIDUOUS BUSH	(HATCHED SHALL BE REMOVED)					E - ELECTRICAL T - TELECOMMUNICATIONS R - RESOURCE
	CONIFEROUS BUSH						B PROJECT NO: 120581.41
- X	DEFINING EDGE OF BRUSH OR FORESTED AREA FENCE	<del></del>					SCALE: AS NOTED  DRAWING DATE: 10-4-13
	GUARD RAIL CULVERT (CMP UNLESS NOTED)						DESIGNED BY: GDG  DRAWN BY: TLB
	DITCH SUMMIT	<del></del>					CHECKED BY: GDG  CLIENT
	EDGE OF LAKE, RIVER, ETC.						MADISON WATER UTILITY
Top Toe	MARSH TOP OR TOE OF SLOPE						MADISON, WISCONSIN
- — —742— — — — — — — — —	CONTOUR EASEMENT	742 			GENERAL NOTES		$\dashv$
	RIGHT OF WAY (ROW) FENCED RIGHT OF WAY (ROW)	PROP. R.O.W			1. ALL WORK SHALL BE COMPLETED IN STANDARD SPECIFICATIONS, CITY OF RESOURCES REQUIREMENTS.	ACCORDANCE WITH STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION MADISON, MADISON WATER UTILITY AND DEPARTMENT OF NATURAL	UNIT WELL 26
P.L.	RIGHT OF WAY MONUMENT  UNFENCED PROPERTY LINE				2. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY WORK, IN ACCORDANCE WITH THE EROSION CONTROL NOTES LISTED BELOW.		GENERATOR ADDITION
Y P.L. X • IP				3. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNER OF ALL EXISTING FACILITIES SO THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED, IF NEEDED, PRIOR TO THE START OF		E FOR CONTACTING THE OWNER OF ALL EXISTING FACILITIES SO THE	
	CORPORATE LIMITS				CONSTRUCTION. THE CONTRACTOR SI SPECIFICATIONS.	HALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE	
	BASE LINE OR SURVEY LINE CENTER LINE				4. WHERE THE PROPOSED PAVEMENT, S PROVIDE A NEAT VERTICAL FACE BET CONSIDERED INCIDENTAL TO CONSTR	SIDEWALK, OR DRIVEWAYS ABUT EXISTING PAVEMENT SHALL BE SAW—CUT TO WEEN THE PROPOSED AND EXISTING SURFACES AND SHALL BE	. SHEET TITLE
<b>625.35</b> (P,G,G)	PROPOSED EL./(EXISTING EL.) (POINT, GUTTER, TOP OF CURB)					DAMAGE ALL TREES, BUSHES, CONCRETE AND ASPHALT AREAS TO REMAIN.	A
#	SOIL BORING AND NUMBER	<b>*</b>			6. ONLY CITY OF MADISON PERSONNEL NOT BE UTILITZED FOR MISCELLANEO	ARE ALLOWED TO OPERATE VALVES AND FIRE HYDRANTS. HYDRANTS SHALL OUS WATER USE.	LEGEND, ABBREVIATIONS, INDEX
B.M. <del>•</del>	BENCH MARK				7. CONTRACTOR SHALL CONTACT THE CANY WORK ON THE SITE.	ITY OF MADISON WATER UTILITY 48 HOURS PRIOR TO COMMENCEMENT OF	GENERAL NOTES AND BENCHMARKS
o CP	SURVEY CONTROL POINT						
							G-1
1	ſ	2		3	4	5	1 OF 9







- EXTERIOR BRICK: DESERT IRONSPOT DARK MODULAR VELOUR BY ENDICOTT CLAY PRODUCTS, CO; OR APPROVED EQUAL - CMU BLOCK POST **GROUT CELLS** - (4) #5 REBAR HOOKS CONTINUOUS THROUGH CMU BLOCKS | '- | | "



## I.O SCOPE:

1.1 THIS SECTION COVERS THE REQUIREMENTS FOR THE MATERIALS AND THE CONSTRUCTION OF SITE FENCING.

### 2.0 SPECIAL REQUIREMENTS:

- 2.1 ALL FITTINGS, HARDWARE AND STEEL MEMBERS USED FOR SITE AREA FENCING, SHALL BE HOT DIPPED GALVANIZED (ASTM A | 53) OR OTHER APPROVED NON CORROSIVE MATERIAL AND CONFORM TO FEDERAL SPEC RR-F-191G (1-25-74).
- 2.2 ALL NON-CORROSIVE MATERIAL SHALL BE PRE-APPROVED BY THE PROJECT MANAGER. 2.3 ANY DAMAGE TO GALVANIZING OR NON-CORROSIVE COATING DURING CONSTRUCTION SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S RECOMMENDED METHODS.
- 2.4 ALL WOOD TO BE WESTERN RED CEDAR WITH CLEAR WOOD SEALER FINISH (ANTI-GRAFFITI COATED).

### 3.0 FENCE POSTS:

- 3. I LOCATION OF CORNER POSTS SHALL BE DETERMINED FROM STAKES AND PROPERTY PINS INSTALLED BY THE REGISTERED LAND SURVEYOR UNDER CONTRACT FOR THE PROJECT. IF THE STAKES ARE NOT PRESENT OR DO NOT CONFORM TO THE SITE PLAN, CONSULT WITH THE PROJECT MANAGER. 3.2 GATE POST FOR SITE SHALL BE 4" DIA. SCHEDULE 40 GALVANIZED PIPE. INTERMEDIARY POSTS SHALL BE 2-1/2" OR 3" DIA. SCHEDULE 40 GALVANIZED PIPE.
- 3.3 CORNER POSTS SHALL BE SET WITHIN ONE INCH (I") OF DIMENSIONS INDICATED ON THE SITE PLAN.
  - 3.4 FENCE POSTS SHALL BE VERTICALLY PLUMB IN ALL PLANES WITHIN 1/2 INCH (1/2").
- 3.5 CORNER AND GATE POST FOUNDATIONS SHALL BE A MINIMUM FOUR FEET (4') DEEP OR SIX INCHES (6") BELOW THE FROST LINE, WHICHEVER IS GREATER, WITH MINIMUM THREE INCH (3") CLEARANCE BETWEEN BOTTOM OF POST AND BOTTOM OF THE HOLE.
- 3.6 GATE POST FOUNDATIONS SHALL BE TWENTY-FOUR INCHES (24") IN DIAMETER. INTERMEDIARY POSTS FOUNDATIONS SHALL BE 12 INCHES (12") IN DIAMETER
- 3.7 LINE POSTS BETWEEN CORNER AND GATE POSTS SHALL BE EQUALLY SPACED WITH AN EIGHT FOOT (8') MAXIMUM SPACING. GATE POST LOCATIONS SHALL BE IN ACCORDANCE WITH SITE PLAN AND SHALL BE VERIFIED WITH THE PROJECT MANAGER.
  - 3.8 ALL POSTS SHALL BE CAPPED.

### 4.0 FENCE ENCLOSURE:

4. I ENCLOSURE BACKING RAILS TO CONSIST OF TWO INCH (2") BY SIX INCH(6") NOMINAL CEDAR PLANKS. ALL CEDAR TO HAVE CLEAR CEDAR WOOD SEALER FINISH (ANTI-GRAFFITI COATED). 4.2 ENCLOSURE BOARDS TO BE HEAVY DUTY TWO INCH (2") BY SIX INCH (6") NOMINAL CEDAR PLANKS. ALL CEDAR TO HAVE CLEAR CEDAR WOOD SEALER FINISH (ANTI-GRAFFITI COATED).

4.3 ALL ENCLOSURE BOARDS TO BE SECURED TO FENCE POSTS WITH MANUFACTURER APPROVED HARDWARE. CONTRACTOR TO FOLLOW MANUFACTURER RECOMMENDATIONS AND

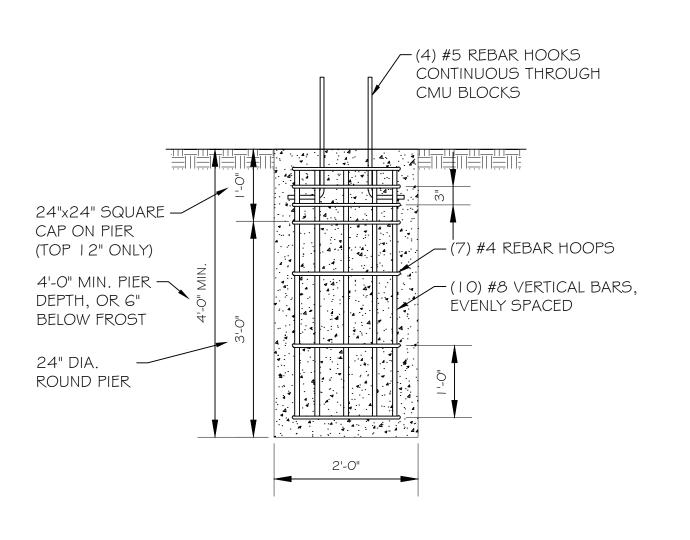
# 5.0 GATE:

SPECIFICATIONS.

- 5.1 LOCATION OF GATE SHALL CONFORM TO THE SITE PLAN, GATE SIZE SHALL BE 12'-0" WIDE (UNLESS OTHERWISE NOTED).
- 5.2 GATE FRAME TO BE CONSTRUCTED OF TWO INCH (2") WELDED STEEL WITH HEAVY DUTY HINGES. CONTRACTOR TO FOLLOW MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS. 5.3 GATE HINGES SHALL PROVIDE FOR 180 DEGREE RADIUS GATE SWING. ANY HINGE NUTS
- SHALL BE ON THE INSIDE AND DOUBLE-NUT TO DETER UNAUTHORIZED ENTRY. 5.4 GATE SHALL BE INSTALLED PLUMB AND SHALL OPEN AND CLOSE FREELY.
  - 5.5 GATE POSTS SHALL NOT BE SHARE AS A CORNER POST.
  - 5.6 PROVIDE ADJUSTABLE HEAVY DUTY ROLLER WHEELS SUITABLE FOR EXTERIOR USE ON SOUTHSIDE GATE ONLY.

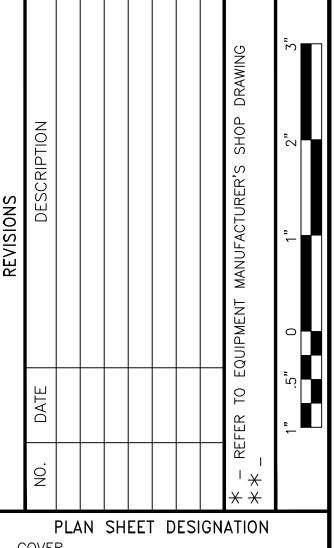
### 6.0 CONCRETE:

6. I CONCRETE SHALL HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI WITH MINIMUM CEMENT CONTENT OF 6 SACKS PER CUBIC YARD AND MAXIMUM 5.5 GALLONS OF WATER PER SACK. THE SLUMP SHALL BE BETWEEN 2 TO 3.5 INCHES. UTILIZE AN AIR-ENTRAINING ADMIXTURE CONFORMING TO ASTM C280 FOR 4% TO 7% CONTENT ALONG WITH A WATER REDUCER MEETING ASTM C494 TYPE A.





CONSULTANTS



G - GENERAL H - HAZARDOUS MATERIALS

C - CIVIL L – LANDSCAPE

S - STRUCTURAL A – ARCHITECTURAL I – INSTRUMENTATION

Q — EQUIPMENT F - FIRE PROTECTION

P - PLUMBING M - MECHANICAL E - ELECTRICAL

T - TELECOMMUNICATIONS R - RESOURCE

PROJECT NO: 120581.41 DRAWING DATE: 10-4-13 DESIGNED BY: GDG DRAWN BY:

CHECKED BY: GDG

CLIENT

# **MADISON WATER UTILITY** MADISON, WISCONSIN

**UNIT WELL 26 GENERATOR ADDITION** 

SHEET TITLE

FENCE DETAILS

**C-3** 

4 OF 9

