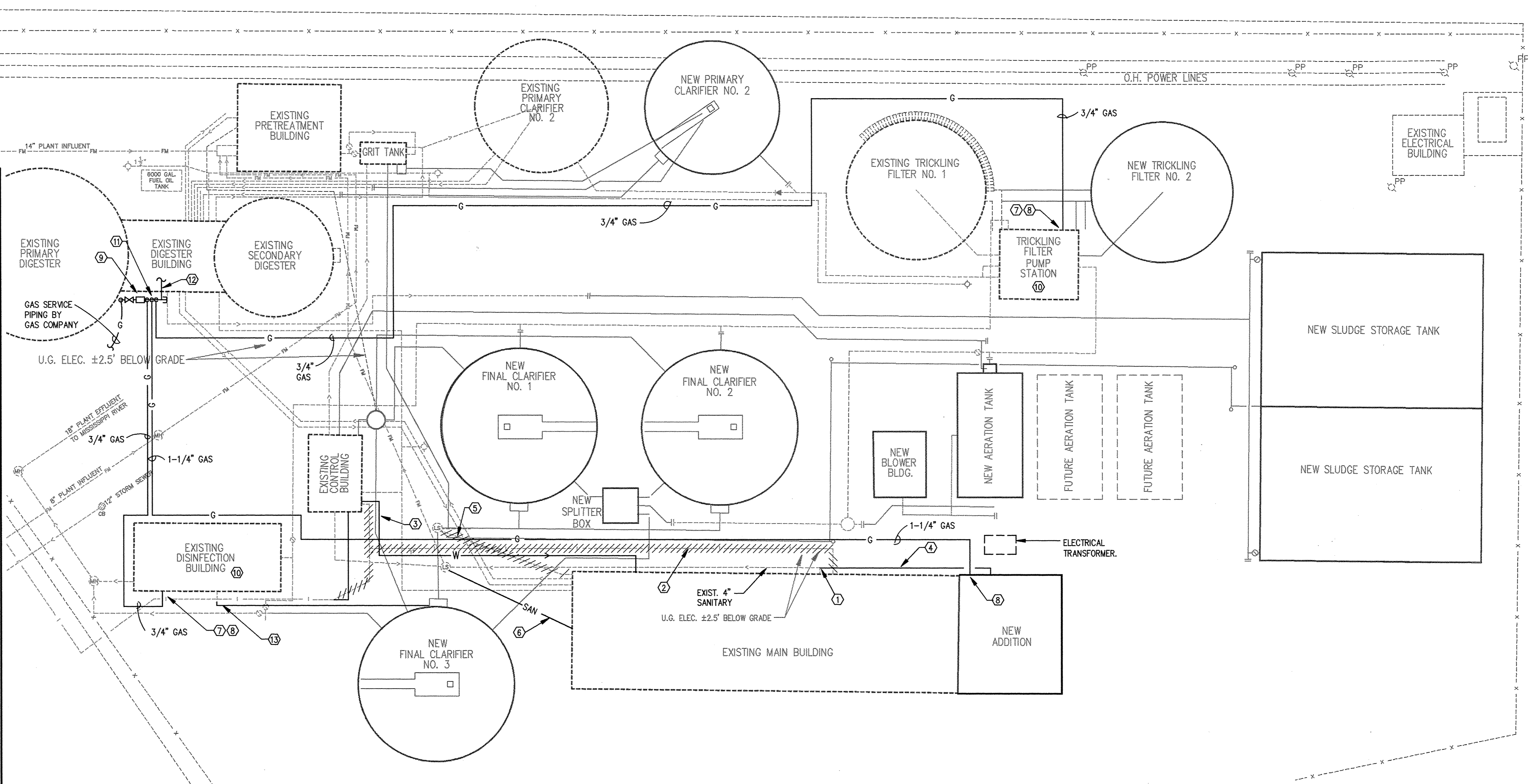


LEGEND OF SYMBOLS & ABBREVIATIONS

SYMBOL	ABBREV.	DESCRIPTION
W	W	DOMESTIC WATER SERVICE
SAN	SAN	SANITARY SEWER
STS	STS	STORM SEWER
W	W	UNDERGROUND SOIL & WASTE
W	W	ABOVE GROUND WASTE
CD	CD	CONDENSATE DRAIN
D	D	DRAIN (OPEN WASTED)
V	V	ABOVE GROUND VENT
NP	NP	NON-POTABLE WATER
CW	CW	POTABLE COLD WATER
HW	HW	HOT WATER
G	G	GAS
CA	CA	COMPRESSED AIR
U	U	UNION
S & W	S & W	SHUT-OFF VALVE
C	C	CHECK VALVE
B	B	BALANCING VALVE
S	S	STOP & WASTE VALVE
S	S	SOLENOID VALVE
M	M	MOTORIZED CONTROL VALVE
G	G	GLOBE VALVE
R	R	REGULATING VALVE
P	P	GAS PRESSURE REGULATOR
B	B	BALL VALVE
F	F	BUTTERFLY VALVE
T & P	T & P	TEMPERATURE & PRESSURE RELIEF VALVE
A	A	PIPE ANCHOR
G	G	PIPE GUIDE
F.D.	F.D.	FLOOR DRAIN
C.O.	C.O.	CLEANOUT
C	C	CAPPED PIPE
T'STAT	T'STAT	THERMOSTAT
S	S	TEMPERATURE SENSOR
---	---	EXISTING ITEM TO REMAIN (DEMOLITION PLANS)
---	---	EXISTING ITEM TO BE REMOVED (DEMOLITION PLANS)
---	---	EXISTING ITEM TO REMAIN (NEW CONSTRUCTION PLANS)
---	---	NEW ITEM (NEW CONSTRUCTION PLANS)
1	1	NUMBERED NOTE
111	111	ROOM NUMBER
EWC	EWC	ELECTRIC WATER COOLER
L.F.	L.F.	LINEAL FEET
LAV.	LAV.	LAVATORY
WC	WC	WATER CLOSET
W.H.	W.H.	WATER HEATER
V.	V.	VENT
V.T.R.	V.T.R.	VENT THRU ROOF
W.	W.	WASTE
A.F.F.	A.F.F.	ABOVE FINISHED FLOOR
A.L.	A.L.	ACOUSTICAL LINING
B.O.D.	B.O.D.	BOTTOM OF DUCT
CD	CD	CEILING DIFFUSER
CFM	CFM	CUBIC FEET PER MINUTE
CG	CG	CEILING GRILLE
ER	ER	EXHAUST REGISTER
FL.	FL.	FLOOR
I.J.S.	I.J.S.	IN JOIST SPACE
I.T.S.	I.T.S.	IN TEE SPACE
O.A.	O.A.	OUTSIDE AIR
SR	SR	SUPPLY REGISTER
U.F.	U.F.	UNDERFLOOR
WG	WG	WALL GRILLE



North
MECHANICAL SITE PLAN
 SCALE: 1" = 20'-0"
 0 10 20 30 40 60
 Graphic Scale

GENERAL NOTES :
 1 - COORDINATE NEW MECHANICAL SITE PIPING WITH NEW & EXISTING PROCESS PIPING. SEE PROCESS SITE PIPING PLAN.

- NUMBERED NOTES :**
- ① CONNECT NEW 4" SANITARY TO EXISTING 4" SANITARY. VERIFY EXACT TIE-IN LOCATION AND INVERT ELEVATION. NOTIFY ENGINEER IF INVERT ELEVATION IS LESS THAN 60" BELOW FINISHED GRADE PRIOR TO INSTALLATION OF NEW 4" SANITARY.
 - ② REMOVE EXISTING 1" POTABLE WATER FROM CONTROL BUILDING TO MAIN BUILDING.
 - ③ INSTALL NEW 1-1/4" POTABLE WATER FROM NEW WATER METER IN CONTROL BUILDING TO MAIN BUILDING.
 - ④ INSTALL NEW 4" SANITARY WASTE FROM FLAMMABLE WASTE TRAP AND CONNECT TO EXISTING 4" WASTE. VERIFY EXACT TIE-IN LOCATION.
 - ⑤ REMOVE EXISTING 4" RBC TANK DRAIN PIPE FROM RBC BUILDING TO MANHOLE #2. PATCH OPENINGS IN MANHOLE AND BUILDING.
 - ⑥ NEW 4" SANITARY WASTE FROM EXISTING MAIN BUILDING TO EXISTING MANHOLE. VERIFY M.H. INVERT ELEV.
 - ⑦ ARRANGE WITH MINNEGASCO FOR THE REMOVAL OF GAS SERVICE TO BUILDING INCLUDING EXISTING GAS METER. NEW GAS SERVICE FROM NEW GAS METER AT EXISTING DIGESTER BUILDING TO BE BY CONTRACTOR.
 - ⑧ NEW GAS SERVICE TO BUILDING BY CONTRACTOR. SEE DETAIL 11/M10
 - ⑨ ARRANGE FOR NEW GAS SERVICE AND GAS METER TO BE INSTALLED AT EXISTING DIGESTER BUILDING. TOTAL CAPACITY OF 2089 CFH WITH A METER OUTPUT PRESSURE OF 2 PSI.
 - ⑩ INSTALL GAS PRESSURE REGULATOR ON EXISTING UNIT HEATERS.
 - ⑪ PROVIDE 2" GAS MANIFOLD WITH VALVED TAKE-OFFS TO EACH BUILDING.
 - ⑫ ROUTE NEW 1" GAS AND CONNECT TO NEW SLUDGE HEATING BOILER. VERIFY EXACT LOCATION. PROVIDE GAS PRESSURE REGULATORS AS REQUIRED.
 - ⑬ REMOVE EXISTING 4" PVC PIPE FROM FLOOR DRAIN TO SCUM SUMP ON FINAL CLARIFIER THAT IS BEING REMOVED. CONNECT NEW 4" PVC TO EXISTING 4" PVC OUTSIDE OF BUILDING AND ROUTE TO SCUM SUMP ON NEW FINAL CLARIFIER NO. 3. VERIFY EXACT TIE-IN LOCATION.

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Thomas A. Wentz
 DATE: 09 OCT 95 REG. NO.: 18609



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DATE	DESCRIPTION	DESIGNED	TAW
		CHECKED	TAW
		DRAWN	SRS
		GRAPHIC SCALE	
		0 HORIZ. 20	
		0 VERT.	

CITY OF ELK RIVER		M1
WASTEWATER TREATMENT FACILITIES		
MECHANICAL SITE PLAN		
DATE: OCT 1995	SHEET: M1 OF M11 SHEETS	PROJECT NO.: 230-151