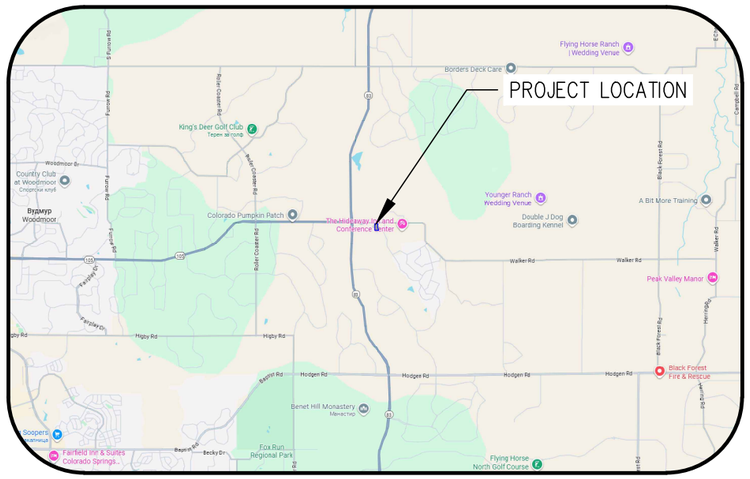
WALDEN CORPORATION WASTEWATER TREATMENT PLANT PROJECT

FINAL ENGINEERING DRAWINGS

EL PASO COUNTY, COLORADO

FEBRUARY 2

Added the signature blocks as per request.



VICINITY MAP

NOT TO SCALE

Prepared the sheet set as per request.

Extract all pertinent grading and erosion control sheets and label as GEC plan with sheet index, title page, standards GEC notes per GEC checklist and signature blocks.

Grading and Erosion Control Plans (standalone)

Design Engineer's Statement:

This grading and erosion control plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said plan has been prepared according to the criteria established by the County for grading and erosion control plans. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparing this plan.

_____ _____

[Name, P.E. #_____]Date

Owner/Developer's Statement:

I, the owner/developer have read and will comply with the requirements of the grading and erosion control plan.

_____ _____

[Name, Title]Date
[Business Name]
[Address]

El Paso County:

County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/ or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/ or accuracy of this document.

Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual, Volumes 1 and 2, and Engineering Criteria Manual as amended.

In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Directors discretion.

_____ _____

County Engineer / ECM AdministratorDate

AquaWorks
DESIGN BUILD OPERATE
3252 WILLIAMS STREET | DENVER
COLORADO | 80205 | (303) 477-5915

COLORADO 811

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Prepared the sheet set as per request.

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

REV. No:	DATE:	BY:	REVISION DESCRIPTION:

DESIGNED BY: NM
CHECKED BY: AS
FILE PRINTED ON: 2/13/2026
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0 1 IF THIS BAR DOES NOT READ 1" DRAWING IS NOT LABELED TO SCALE

AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477–5915

SHEET TITLE: SHEET LIST

PROJECT NUMBER:	SCALE:	SHEET:
#3774	NOT TO SCALE	G2

AB	ANCHOR BOLT
ABC	AGGREGATE BASE COURSE
AC	AIR CONDITIONING
ACOUS	ACOUSTICAL
ACP	ASPHALTIC CONCRETE
ACTR	ACTUATOR
AD	AREA DRAIN OR ACCESS DOOR
ADDM	ADDENDUM
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMT	AMOUNT
APPROX	APPROXIMATE
ARV	AIR RELIEF VALVE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ASPH	ASPHALT
ASSY	ASSEMBLY
ATS	AUTOMATIC TRANSFER SWITCH
AVG	AVERAGE
AVS	AUTOMATIC VALVE STATION
B	BLOWER
B&F	BELL & FLANGE
BB	BOND BEAM
BAF	BAFFLE
BC	BACK OF CURB
BE	BELL END
BF	BOTTOM FACE
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BLK	BLOCK
BM	BENCHMARK
BMPS	BEST MANAGEMENT PRACTICES
BOD	BIOCHEMICAL OXYGEN DEMAND
BOT	BOTTOM OR BOTTOM OF TANK
BP	BOOSTER PUMP
BS	BACKSIGHT
BSMT	BASEMENT
BU	BELL UP
BV	BALL VALVE
BCV	BUTTERFLY CHECK VALVE
BWL	BOTTOM WATER LEVEL
C/C	CENTER TO CENTER
CB	CATCH BASIN
CCW	COUNTER CLOCKWISE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CEB	CONCRETE EQUIPMENT BASE
CIP	CAST IRON PIPE
CIMJ	CAST IRON MECHANICAL JOINT
CISP	CAST IRON SOIL PIPE
CJ	CONSTRUCTION JOINT
CL	CENTER LINE OR CHAIN LINK
CLG	CEILING
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
COR	CORNER
CP	CENTRIFUGAL PUMP
CPLG	COUPLING
CR	CONCRETE REDUCER
CTJ	CONTROL JOINT
CTR	CENTER
CS	CAUSTIC SODA
CW	COLD WATER
CWL	CONTROL WATER LEVEL
CY	CUBIC YARDS
DEMO	DEMOLITION
DI	DEIONIZATION
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DIS	DISCHARGE
DISP	DISPENSER
DL	DEAD LOAD
DMJ	DUCTILE MECHANICAL JOINT
DN	DOWN
DR	DRAIN
DWG	DRAWING
DWL	DOWEL
DWN	DRAWN
DWV	DRAIN WASTE AND VENT
EA	EACH
ECC	ECCENTRIC
EF	EACH FACE OR ELECTRICAL FAN
EFF	EFFLUENT
EJ	EXPANSION JOINT
EL	ELEVATION
EXIST OR (E)	EXISTING
EXIST GR	EXISTING GRADE
EXT	EXTERIOR
EXTN	EXTENSION

F/F	FACE TO FACE
FCA	FLANGE COUPLING ADAPTER
FD	FLOOR DRAIN
FDN	FOUNDATION
FED	FEDERAL
FES	FLARED END SECTION
FFE	FINISH FLOOR ELEVATION
FIN	FINISH
FL	FLANGE
FLL	FLOW LINE
FLR	FLOOR
FN	FENCE
FOC	FACE OF CONCRETE
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPW	FIRE PROTECTION WATER SUPPLY
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FSTNR	FASTENER
FT	FEET
FTG	FOOTING OR FITTING
FUR	FURNACE
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GIP	GALVANIZED IRON PIPE
GRND	GROUND
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GR BM	GRADE BEAM
GRC	GALVANIZED RIGID CONDUIT
GRTG	GRATING
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
GWB	GYPSUM WALL BOARD
H	HIGH
HB	HOSE BIB
HDWL	HEAD WALL
HNDRL	HAND RAIL
HNDWL	HANDWHEEL
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPT	HYDROPNEUMATIC PRESSURE TANK
HR	HOUR
HS	HIGH STRENGTH
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HWL	HIGH WATER LEVEL
HWY	HIGHWAY
HYD	HYDRANT
INCL	INCLUDED
INCR	INCREASER
ID	INSIDE DIAMETER
IF	INSIDE FACE
INL	INLET
INSTL	INSTALLATION
INSTR	INSTRUMENT
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
INV EL	INVERT ELEVATION
ISA	INSTRUMENT SOCIETY OF AMERICA
ISO	ISOMETRIC
JST	JOIST
JTS	JOINTS
KO	KNOCKOUT
KPL	KICK PLATE
KWY	KEYWAY
L	LEFT OR LITER
LAB	LABORATORY
LATL	LATERAL
LAV	LAVATORY
LB(S)	POUND(S)
LCMU	LIGHTWEIGHT CONCRETE MASONRY UNIT
LF	LINEAR FOOT
LKR	LOCKER
LL	LIVE LOAD OR LOW LEVEL
LNG	LENGTH
LOC	LOCATION
LP	LOW PRESSURE OR LIGHT POLE
LRG	LARGE
LT	LIGHT
LT WT	LIGHT WEIGHT
LWC	LIGHT WEIGHT CONCRETE
LWL	LOW WATER LEVEL
MAINT	MAINTENANCE
MAN	MANUAL
MATL	MATERIAL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MED	MEDIUM
MFM	MAGNETIC FLOW METER
MFR	MANUFACTURER

MG	MILLION GALLONS OR MILLIGRAMS
MGD	MILLION GALLONS PER DAY
MGMT	MANAGEMENT
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINTS
MO	MASONRY OPENING
MRGYB	MOISTURE RESISTANT GYPSUM WALL BOARD
MTG	MOUNTING
N	NITROGEN
NA	NOT APPLICABLE
NAOCL	SODIUM HYPOCHLORITE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NP	NO PAINT
NPL	NAME PLATE
NPT	NATIONAL PIPE THREAD
NPW	NON-POTABLE WATER
NRS	NON-RISING STEM
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OVER FLOW
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
P	PUMP
PA	PIPE ANCHOR
PAR	PARALLEL
PC	PORTLAND CEMENT
PCO	PRESSURE CLEAN OUT
PCP	PROGRESSING CAVITY PUMP
PD	PUMP DISCHARGE LINE
PE	PLAIN END
PERM	PERMANENT
PERP	PERPENDICULAR
PG	PRESSURE GAGE
PL	PLATE OR PROPERTY LINE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNT	PAINT
POLY	POLYETHYLENE
PORT	PORTABLE
POS	POSITIVE
PPM	PARTS PER MILLION
PRCST	PRECAST
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PREP	PREPARATION
PROJ	PROJECT
PROP	PROPERTY
PRS	PRESSURE REDUCING STATION
PRTV	PRESSURE / TEMPERATURE RELIEF VALVE
PRV	PRESSURE REDUCING VALVE
PS	PIPE SUPPORT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PV	PLUG VALVE
PVMT	PAVEMENT
PW	POTABLE WATER
QAVG	AVERAGE DAILY FLOW
QMAX	MAXIMUM DAILY FLOW
QPEAK	PEAK HOUR FLOW
QCV	QUICK COUPLER VALVE
QTR	QUARTER
QTY	QUANTITY
R	RISER
RAD	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RED	REDUCER
REC	RECESSED
RECT	RECTANGULAR
REF	REFERENCE
REHAB	REHABILITATION
REINF	REINFORCE
REQD	REQUIRED
RESIL	RESILIENT
RFCA	RESTRAINED FLANGED COUPLING ADAPTER
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RND	ROUNDED
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECOND
RR	RAILROAD
RTN	RETURN

SA	SUPPLY AIR
SALV	SALVAGE
SAN	SANITARY
SB	SPLASH BLOCK
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SCRN	SCREEN
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SECT	SECTION
SHLDR	SHOULDER
SHT	SHEETING
SHTHG	SHEATHING
SIM	SIMILAR
SLV	SLEEVE
SM	SMOOTH
SP	SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SQ FT	SQUARE FEET
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SS	SANITARY SEWER
SST	STAINLESS STEEL
SST BT	STAINLESS STEEL BOLT
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STL JST	STEEL JOIST
STL PL	STEEL PLATE
SUPP	SUPPLY
SUSP CLG	SUSPENDED CEILING
SV	SOLENOID VALVE
SVC	SERVICE
SW	SIDEWALK
SWMP	STORM WATER MANAGEMENT PLAN
SYMM	SYMMETRICAL
SYS	SYSTEM
T	TEE
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T&P	TEMPERATURE AND PRESSURE
TB	TOP OF BEAM
TBM	TEMPORARY BENCH MARK
TE	TOP ELEVATION
TEMP	TEMPORARY
TF	TOP OF FOOTING
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TFF	TOP OF FINISH FLOOR
THD	THREAD(ED)
THK	THICK
TJ	TOP OF JOIST
TOB	TOP OF BANK
TOC	TOP OF CONCRETE
TOE	THREADED ONE END
TOF	TOP OF FOOTING
TOT	TOTAL
TP	TOP OF PAVEMENT
TR	TOP OF RIM
TSL	TOP OF SLAB
TST	TOP OF STEEL
TW	TOP OF WALL
TWL	TOP WATER LEVEL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UE	UNDERGROUND ELECTRIC
UG	UNDERGROUND
ULT	ULTIMATE
UN	UNION
UNG	UNDERGROUND NATURAL GAS
UNFIN	UNFINISHED
UNIF	UNIFORM
UV	ULTRAVIOLET
VAC	VACUUM
VB	VALVE BOX
VCP	VITRIFIED CLAY PIPE
VTR	VENT THROUGH ROOF
W	WIDE OR WIDTH
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WC	WATER CLOSET
WCO	WALL CLEANOUT
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WH	WALL HYDRANT
WHSE	WAREHOUSE
WI	WROUGHT IRON
WL	WATER LINE OR WIND LOAD
WP	WASTE PIPE
WPR	WORKING PRESSURE
WS	WETTED SURFACE
WT	WEIGHT

WTR	WATER
WTRPRF	WATERPROOF(ING)
X-SECT	CROSS SECTION
YCO	YARD CLEANOUT
YD	YARD DRAIN
YH	YARD HYDRANT

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

Excluded this sheet and prepared the sheet set as per request on G2.

SYMBOL LEGEND

- DEMOLITION
- EARTH
- ROCK
- GROUT
- GRAVEL
- STEEL
- CONCRETE
- SAND
- CONCRE
- RIGID IN
- BATT IN
- GLASS
- STEEL PLATE
- SCREEN
- GRATING IN PLAN
- GRATING IN SECTION
- WOOD IN SECTION
- EXISTING STRUCTURE
- NEW STRUCTURE
- DRAINAGE FLOW LINE
- FENCE
- BUSHES, TREES
- BID ALTERNATE

- THRUST BLOCK
- HARNESSED MECHANICAL COUPLING
- NEW VALVE W/ TIE RODS
- EXISTING VALVE
- PRESSURE RELIEF VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- HARNESS
- & WASTE VALVE
- VALVE
- VALVE
- VALVE
- MECHANICAL JOINT
- FLANGED JOINT
- NEW PIPE IN SECTION
- EXISTING PIPE IN SECTION
- WALL SLEEVE
- PIPE 4" DIA OR GREATER
- PIPE LESS THAN 4" DIA
- LINE TURNING UP
- LINE TURNING DOWN

- EXISTING GAS LINE
- EXISTING WATER LINE
- TELEPHONE LINE
- PROPOSED STORM DRAIN
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC W/ POWER POLE
- ELECTRICAL LIGHT POLE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- PROPERTY LINE
- SURVEY CONTROL POINT
- LIMITS OF GRAVEL SURFACING
- ASPHALT PAVING
- CONCRETE PAVING
- PROPOSED CONTOUR
- EXISTING CONTOUR
- SAMPLE POINT
- LEVEL INDICATOR
- FLOW METER
- PUMP
- ELECTRICAL ANALOG SIGNAL
- ELECTRICAL DIGITAL SIGNAL
- AIR RELIEF VALVE
- TREE

SYMBOLS

SECTION LETTER IDENTIFICATION
SHEET WHERE THE SECTION OR ELEVATION IS DRAWN – INDICATES SAME DRAWING
SECTION OR ELEVATION MARKER
ARROW INDICATES VIEWING ORIENTATION

SECTION 1/4"=1'-0"
SECTION LETTER IDENTIFICATION
SHEETS WHERE THE SECTION OR ELEVATION IS CUT OR CALLED OUT – INDICATES SAME DRAWING
SECTION OR ELEVATION TITLE

DETAIL 1/4"=1'-0"
DETAIL NUMBER IDENTIFICATION
SHEETS WHERE THE DETAIL IS CALLED OUT – INDICATES SAME DRAWING
DETAIL TITLE

DETAIL NUMBER IDENTIFICATION
SHEET WHERE THE DETAIL IS DRAWN – INDICATES SAME DRAWING
DETAIL MARKER

COLORADO 811
KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

REV. No:	DATE:	BY:	REVISION DESCRIPTION:

DESIGNED BY: NM
CHECKED BY: AS
FILE PRINTED ON: 2/13/2026
COPYRIGHT: AQUAWORKS DBO, INC.
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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
ABBREVIATIONS & SYMBOLS

PROJECT NUMBER:	SCALE:	SHEET:
#3774	NOT TO SCALE	G3

GENERAL NOTES:

1. PROJECT ADDRESS: 3155 WALKER RD, COLORADO SPRINGS, CO 81132.

2. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL GIVE THE OWNER SEVENTY-TWO (72) HOURS ADVANCE NOTICE.

3. NO BELOW GRADE UTILITIES WERE LOCATED FOR THIS PLAN SET. CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO COORDINATE WITH THE APPROPRIATE UTILITY COMPANY. CONTRACTOR IS RESPONSIBLE TO PROTECT UTILITIES DURING CONSTRUCTION. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, OWNER AND CONTRACTOR SHALL COORDINATE WITH ENGINEER TO MODIFY THE DESIGN. DESIGN MODIFICATION(S) MUST BE APPROVED BY THE OWNER PRIOR TO BEGINNING CONSTRUCTION AFFECTED. FOR UTILITY LOCATE INFORMATION, CONTACT UNCC: (800) 922-1987.

4. ACTUAL LOCATIONS, DISTANCES, AND ELEVATIONS WILL BE GOVERNED BY ACTUAL FIELD CONDITIONS. CONTRACTOR TO FIELD VERIFY CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

5. CONTRACTOR SHALL BE REQUIRED TO RESTORE THE ROUTE OF WORK AND ANY DAMAGED EXISTING LANDSCAPE, STRUCTURES, OR IMPROVEMENTS AS THE RESULT OF WORK TO ORIGINAL CONDITION OR BETTER PRIOR TO ACCEPTANCE OF WORK. CONTRACTOR RESPONSIBLE FOR RESTORING SITE TO PRE-CONSTRUCTION CONDITION.

6. NO UTILITY SERVICE MAY BE DISCONNECTED WITHOUT PRIOR APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.

7. CONTRACTOR TO PROVIDE AND MAINTAIN TEMPORARY PORTABLE RESTROOM FACILITIES FOR THE DURATION OF THE PROJECT.

8. CONTRACTOR SHALL EXHIBIT NECESSARY SAFETY PRECAUTIONS DURING CONSTRUCTION, WHICH INCLUDES, BUT IS NOT LIMITED TO, SIGNAGE, SECURITY, AND EXCAVATION AS SET FORTH BY OSHA, PUBLICATION 2226, "EXCAVATION AND TRENCHING OPERATIONS."

9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF ALL PERMITS NECESSARY FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN.

10. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING MANHOLES, SEWER PIPES, STRUCTURES, AND OUTFALLS PRIOR TO CONSTRUCTION.

11. THE CONTRACTOR SHALL MAINTAIN ON SITE A FULL SET OF CONSTRUCTION DRAWINGS, RECORDING ALL INFORMATION PERTAINING TO THE CONSTRUCTION OF THE WASTEWATER TREATMENT PLANT IMPROVEMENTS. THESE RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.

12. HORIZONTAL AND VERTICAL DEFLECTION OF THE PIPES SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS FOR THE PIPE MATERIAL AND TEST PRESSURE SPECIFIED.

13. CONTRACTOR SHALL NOT SCALE FROM DRAWINGS FOR CONSTRUCTION PURPOSES. ANY MISSING DIMENSIONS OR DISCREPANCIES IN PLANS, FIELD STAKING, FIELD CONDITIONS OR PHYSICAL FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF CONTRACTOR PROCEEDS WITH THE WORK WITHOUT NOTIFYING ENGINEER HE DOES SO AT HIS OWN RISK.

14. IF CONFLICTS, QUESTIONS OR INTERPRETATION ARE REQUIRED CONTACT THE ENGINEER IN WRITING WITH A REQUEST FOR INFORMATION (RFI).

BUILDING REQUIREMENTS:

1. CONTRACTOR TO CONFORM TO CURRENT EDITION IBC, EL PASO COUNTY BUILDING CODES, AND OTHER APPLICABLE LOCAL CODES.

2. MAINTAIN EXISTING PORTABLE FIRE EXTINGUISHERS THROUGHOUT THE BUILDING PER IFC AND NFPA 10.

REQUIREMENTS:

ALL MATERIALS FOR POTABLE WATER SERVICE SHALL BE NSF 61 CERTIFIED DISINFECTION SYSTEMS
B300-04 AWWA STANDARD FOR HYPOCHLORITES

ELECTRICAL:
1. CONTRACTOR TO COORDINATE MODIFICATIONS TO EXISTING ELECTRICAL SERVICE WITH UTILITY AND OWNER.

2. REFER TO ELECTRICAL DRAWINGS.

PROCESS PIPING:
1. CONTRACTOR TO PROVIDE ALL SUPPORTS AS REQUIRED.

2. EXPOSED PROCESS PRESSURE PIPING FOR LIQUID-CARRYING APPLICATIONS SHALL BE PVC SCH 80 UNLESS OTHERWISE NOTED.

3. EXPOSED PROCESS PRESSURE PIPING FOR BLOWER AIR APPLICATIONS SHALL BE CPVC SCH 80 UNLESS OTHER

4. ALL BURIED PROCESS PRESSURE PIPE TO BE HDPE DR11 UNLESS OTHERWISE NOTED.

5. ALL BURIED GRAVITY, NON-PRESSURE PIPING, TO BE PVC SDR 35 UNLESS OTHERWISE NOTED.

Excluded this sheet and prepared the sheet set as per request on G2.

PIPING IDENTIFICATION REQUIREMENTS:
1. INCLUDE FLOW DIRECTION ARROW TAPE ON ALL PIPING.

2. ALL PIPING SHALL EITHER BE PAINTED OR LABELED USING THE FOLLOWING COLOR SCHEDULE (NOT ALL MAY BE INCLUDED WITH THIS PROJECT):

PROCESS LINES	
SEWAGE	DARK GRAY
SLUDGE	BROWN WITH BLACK BANDS
POTABLE WATER	DARK BLUE
NON-POTABLE WATER	DARK BLUE WITH BLACK BANDS
RECLAIMED WATER	PURPLE
CHEMICAL LINES	
ALUM OR PRIMARY COAGULANT	ORANGE
AMMONIA	WHITE
CARBON SLURRY	BLACK
CAUSTIC	YELLOW WITH GREEN BAND
CHLORINE	YELLOW
OZONE	YELLOW WITH ORANGE BAND
POLYMERS OR COAGULANTS	ORANGE WITH GREEN BAND
POTASSIUM PERMANGANATE	PURPLE WITH GREEN BAND
SODA ASH	LIGHT GREEN WITH ORANGE BAND
OTHER	
COMPRESSED AIR	DARK GREEN
GAS	RED

PROJECT TEAM:

SYSTEM OWNER:
WALDEN CORPORATION
MR. BILL DUNSTON
P.O. BOX 170
MONUMENT, CO 80132
(719) 243-1111

CIVIL PROCESS ENGINEER:
AQUAWORKS DBO, INC.
MR. ADAM SOMMERS, P.E.
3252 WILLIAMS STREET
DENVER, CO 80205
(303) 477-5915

STRUCTURAL ENGINEER:
WALLACE STRUCTURAL CONSULTANTS
MR. PRYCE JOYNER, P.E.
9800 PYRAMID CT, #305
ENGLEWOOD, CO 80112
(918) 238-0855

ELECTRICAL ENGINEER:
DYNAMIC MEP CONSULTING ENGINEERS
MR. MIKE BRUNGARDT, P.E.
PO BOX 280782
DENVER, CO 80228
(303) 421-3208

OPERATOR IN RESPONSIBLE CHARGE:
SUMMA WATER SERVICES
MS. ELLEN ELLSON
9548 WATERBURY DRIVE
FALCON, CO 80831
(719) 352-5257

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
GENERAL NOTES & REQUIREMENTS

PROJECT NUMBER:	SCALE:	SHEET:
#3774	NOT TO SCALE	G4

DESIGN CRITERIA SUMMARY:

DESIGN FLOWS:

MAX MONTH (DESIGN) FLOW:	150,000 GPD
PEAK DAILY FLOW (PDF):	225,000 GPD
PEAK INSTANTANEOUS FLOW:	416 GPM

DESIGN INFLUENT CONCENTRATIONS AND LOADING:

AVERAGE BOD:	300 MG/L
AVERAGE TSS:	300 MG/L
AVERAGE TKN:	60 MG/L
AVERAGE TP:	10 MG/L

DESIGN EFFLUENT LIMITS:

BOD:	< 5 MG/L
TSS:	< 1 MG/L
NH4-N + NH3-N:	< 1 MG/L
TIN:	< 8 MG/L
PH:	6.5 TO 8.5

ACTIVATED SLUDGE DESIGN CRITERIA:

SITE ELEVATION:	7,400 FEET MSL
MLSS TEMPERATURE:	10 DEG C
HYDRAULIC RETENTION TIME (HRT):	21.0 HRS @ MMF
DESIGN MLSS CONCENTRATION:	8,000 MG/L
SOLIDS RETENTION TIME (TOTAL):	21.3 DAYS
F:M RATIO:	0.045 (0.091 F:MLVSS)

MAJOR EQUIPMENT SUMMARY:

INFLUENT FLOW MEASUREMENT:

QUANTITY:	1
TAG NO.:	FIT-0101
TYPE:	TRAPEZOIDAL FLUME
SIZE:	XL 60°
ULTRASONIC MFR/MODEL:	VEGA VEGAPLUS C 21 (BY NEWTERRA)

AUTOMATIC COARSE BAR SCREEN (MANHOLE):

QUANTITY:	1
TAG NO:	M-101
MFR/MODEL:	DUPERON DUAL AUGER
MOTOR SIZE:	0.5 HP
SCREEN OPENING:	0.71" (0.38" x 1.0" BAR)

AUTOMATIC FINE SCREEN:

QUANTITY:	2 DUTY
TAG #:	SCR-0201A; SCR-0201B
MFR/MODEL:	MARATHON G829
SCREEN SIZE:	2 MM
MOTOR SIZE:	0.5 HP
POWER:	208-230/460V/3PH

INFLUENT EQUALIZATION BASIN:

QUANTITY:	2
TAG #:	TNK-0301A; TNK-301B
BASIN SIZE:	23.25 FT X 16 FT (EA)
SIDE WATER DEPTH:	10 FT
WORKING VOLUME:	27,800 GAL (EA) 55,600 GAL (TOTAL)

MAJOR EQUIPMENT SUMMARY:

INFLUENT EQUALIZATION PUMPS:

QUANTITY:	2 DUTY & 2 STANDBY
TAG #:	P-0301A & P-0302A; P-0301B & P-0302B
PUMP TYPE:	SUBMERSIBLE
MFR/MODEL:	GRUNDFOS SLV.30.A30.15.EX.4.61R.C
CAPACITY:	78 GPM @ 19.5 FT TDH
MOTOR:	2.0 HP
SPEED CONTROL:	CONSTANT SPEED
POWER:	480V/3PH/60HZ

INFLUENT EQ BLOWER:

QUANTITY:	1 DUTY & 1 STANDBY
TAG #:	B-0301A & B-0301B
TYPE OF BLOWER:	REGENERATIVE
MFR/MODEL:	FPZ E08-MD-15-3
DESIGN FLOW:	115 SCFM
DESIGN PRESSURE:	5.5 PSIG
MOTOR:	15 HP
SPEED CONTROL:	CONSTANT SPEED
POWER:	208-230/460V/3PH

PRE-ANOXIC BASIN:

QUANTITY:	2
TAG #:	TNK-0401A; TNK-0401B
BASIN SIZE:	16 FT X 16 FT (EA)
SIDE WATER DEPTH:	10.0 FT
TOTAL VOLUME:	19,150 GAL (EA) 38,300 GAL (TOTAL)

PRE-ANOXIC MIXING SYSTEM:

QUANTITY:	3
TAG NO.:	MX-0401A; MX-0401B; MX-SPARE
MFR/MODEL:	GRUNDFOS SMD.23.10 .1750.T.6.0H
MOTOR SIZE:	2.7 HP
SPEED CONTROL:	CONSTANT SPEED
POWER:	460V/3PH/60HZ

AEROBIC BASIN:

QUANTITY:	2
TAG #:	TNK-0501A; TNK-0501B
BASIN SIZE:	32.3 FT X 16 FT (EA)
SIDE WATER DEPTH:	10.0 FT
WORKING VOLUME:	38,700 GAL (EACH) 77,400 GAL (TOTAL)

COLORADO LICENSED ADAM SOMMERS 38169 2/13/26 PROFESSIONAL ENGINEER

MAJOR EQUIPMENT SUMMARY:

RECIRCULATION PUMPS:

QUANTITY:	2 DUTY, 2 STANDBY
TAG #:	P-0501A; P-0502A P-0501B; P-0502B
MFR/MODEL:	GRUNDFOS SL1.30.A30.20.EX.4.61R.C
CAPACITY:	208 GPM @ 21 FT TDH
MOTOR SIZE:	2.5 HP
SPEED CONTROL:	CONSTANT SPEED
POWER:	460V/3PH/60HZ

AEROBIC PROCESS BLOWERS:

QUANTITY:	4 DUTY & 1 SHARED SPARE
TAG #:	B-0501A; B-0502A; B-0501B; B-0502B
TYPE OF BLOWER:	POSITIVE DISPLACEMENT
MFR/MODEL:	FPZ E11-MD-20-3
DESIGN FLOW:	200 SCFM (EA)
DESIGN PRESSURE:	5.4 PSIG
MOTOR:	20 HP
SPEED CONTROL:	VFD
POWER:	208-230/460V/3PH

POST-ANOXIC BASIN:

QUANTITY:	2
TAG #:	
BASIN SIZE:	
SIDE WATER DEPTH:	
TOTAL VOLUME:	

NOT NEEDED FOR GEC PLAN

POST-ANOXIC MIXING SYSTEM:

QUANTITY:	3
TAG NO.:	MX-0601A; MX-0601B; MX-SPARE
MFR/MODEL:	GRUNDFOS SL1.30.A30.30.EX.4.61R.C
MOTOR SIZE:	3.6 HP
SPEED CONTROL:	CONSTANT SPEED
POWER:	460V/3PH/60HZ

MEMBRANE (MBR) TANK:

QUANTITY:	2
TAG #:	TNK-0701A; TNK-0701B
BASIN SIZE:	5.83 FT X 6.66 FT
SIDE WATER DEPTH:	6.89 FT
TANK VOLUME (EA):	2,004 GAL (EA) 4,008 GAL (TOTAL)

MEMBRANES:

MEMBRANE TYPE:	HOLLOW TUBE FIBER
MFR/MODEL:	ZEEWEED 500S
AREA/MODULE:	300 FT2
MODULES / MBR TANK:	24 (PER TANK TRAIN) 48 (TOTAL)
FLUX (NET):	6.3 GFD

MAJOR EQUIPMENT SUMMARY:

MEMBRANE FEED PUMPS:

QUANTITY:	2 DUTY, 2 STANDBY
TAG #:	P-0601A & P-0602A; P-0601B & P-0602B
MFR/MODEL:	GRUNDFOS SL1.30.A30.30.EX.4.61R.C
CAPACITY:	260.4 GPM @ 27 FT TDH
MOTOR SIZE:	3.6 HP
SPEED CONTROL:	CONSTANT SPEED
POWER:	460V/3PH/60HZ

MEMBRANE BLOWERS:

QUANTITY:	2 DUTY, 1 STANDBY
TAG #:	B-0
TYPE OF BLOWER:	REGE
MFR/MODEL:	FPZ
DESIGN FLOW:	120
DESIGN PRESSURE:	4.0
MOTOR:	10 HP
SPEED CONTROL:	CONSTANT SPEED
POWER:	208-230/460V/3PH

Excluded this sheet and prepared the sheet set as per request on G2.

MBR PERMEATE PUMPS:

QUANTITY:	2 DUTY & 2 STANDBY
TAG #:	P-0701A, P-0702A; P-0701B, P-0702B
	GOULDS 3ST1H9E4
	86.8 GPM @ 57.5 FT TDH
	3 HP
	VFD
POWER:	208-230/460V/3PH/60HZ

MEMBRANE BACKPULSE PUMP

QUANTITY:	1 DUTY, 1 INSTALLED STANDBY
TAG #:	P-0801A & P-0801B
MFR/MODEL:	GOULDS 3ST2D9A4
CAPACITY:	57.9 GPM @ 22 FT
MOTOR SIZE:	0.75 HP
SPEED CONTROL:	VFD
POWER:	208-230/460V/3P/60HZ

MEMBRANE BACKWASH TANK

QUANTITY:	1
TAG #:	TNK-801
BASIN SIZE:	30 IN DIA X 73 IN (H)
VOLUME:	178 GALLONS

SLUDGE HOLDING TANK:

QUANTITY:	1
TAG #:	TNK-0901
BASIN SIZE:	33.1 FT X 17.1 FT
SIDE WATER DEPTH:	10.0 FT
WORKING VOLUME:	42,600 GAL (TOTAL)

MAJOR EQUIPMENT SUMMARY:

SLUDGE SUPERNATANT/DECANT PUMP:

QUANTITY:	1 DUTY, 1 INSTALLED SPARE
TAG #:	P-0901A; P-0901B
MFR/MODEL:	GRUNDFOS UNILIFT AP12.40.06.A1
CAPACITY:	61.9 GPM @ 20 FT TDH
MOTOR SIZE:	1.3 HP
SPEED CONTROL:	CONSTANT SPEED
VOLTAGE/PHASE:	460V/3PH/60HZ

SLUDGE BLOWER:

QUANTITY:	1 DUTY & 1 STANDBY
TAG #:	B-0901A & B-0901B
TYPE OF BLOWER:	REGENERATIVE
MFR/MODEL:	FPZ E10-MD-15-3
DESIGN FLOW:	185 SCFM
DESIGN PRESSURE:	5.9 PSIG
MOTOR:	15 HP
SPEED CONTROL:	CONSTANT SPEED
POWER:	208-230/460V/3PH

PERMEATE PRIME/AIR BLEED PUMP:

QUANTITY:	2 DUTY
TAG #:	P-0703A; P-0703B
MFR/MODEL:	SHURFLO 2088-394-144
CAPACITY:	3 GPM @ 45 PSI
SPEED CONTROL:	CONSTANT SPEED
VOLTAGE/PHASE:	115V/1PH/60HZ

ALUMINUM SULFATE (ALUM) FEED SYSTEM:

QUANTITY:	3, 2 DUTY (1 PER TRAIN); 1 SHARED SHELF SPARE
TAG #:	P-6101A; P-6101B; P-SPARE
MFR/MODEL:	PROMINENT BT4B0413PVT
CAPACITY:	0.44 GPH @ 58 PSI MAX
VOLTAGE/PHASE:	100-240V/50/60HZ
TANK CAPACITY:	1,000 GALLONS

PHOSPHORUS POLISHING BREAK TANK:

QUANTITY:	1
TAG #:	TNK-1001
BASIN SIZE:	7.25 FT X 8.3 FT
SIDE WATER DEPTH:	4.0 FT
WORKING VOLUME:	1,810 GAL (TOTAL)

FILTER EFFLUENT PUMP:

QUANTITY:	1 DUTY, 1 INSTALLED SPARE
TAG #:	P-1001A; P-1001B
MFR/MODEL:	GRUNDFOS SLV.30.A30
CAPACITY:	173.6 GPM @ 69.3 FT TDH
MOTOR SIZE:	11.8 HP
SPEED CONTROL:	CONSTANT SPEED
VOLTAGE/PHASE:	460V/3PH/60HZ

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AquaWorks DBO INC DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: DESIGN CRITERIA & MAJOR EQUIPMENT SUMMARY I

PROJECT NUMBER:	SCALE:	SHEET:
#3774	NOT TO SCALE	G5

MAJOR EQUIPMENT SUMMARY:

PHOSPHORUS POLISHING FILTERS:

QUANTITY:	2 DUTY (PARALLEL)
TAG #:	FLT-1101A; FLT-1101B
MFR/MODEL:	FERROSORB
SIZE:	56" (DIA) X 60" (H)
MEDIA:	FERROSORB MEDIA 57 FT^3

CAUSTIC SODA FEED SYSTEM:

QUANTITY:	3, 2 DUTY (1 PER TRAIN); 1 SHARED SHELF SPARE
TAG #:	P-6102A; P-6102B; P-SPARE
MFR/MODEL:	PROMINENT BT4B0413PVT
CAPACITY:	1.7 GPH @ 58 PSI MAX
VOLTAGE/PHASE:	100-240V/50/60HZ
TANK CAPACITY:	1,000 GALLONS

MICRO-C CHEMICAL FEED SYSTEM:

QUANTITY:	2 DUTY (1 PER TRAIN)
TAG #:	P-6103A; P-6103B
MFR/MODEL:	PROMINENT BT4B1602PVT
CAPACITY:	0.58 GPH @ 232 PSI MAX
VOLTAGE/PHASE:	100-240V/50/60HZ
TANK CAPACITY:	55 GALLONS

CIP SODIUM HYPOCHLORITE FEED SYSTEM

QUANTITY:	2, 1 DUTY, 1 SHARED SHELF SPARE
TAG #:	P-6105; P-SPARE
MFR/MODEL:	SHURFLO 2088-394-144
CAPACITY:	3.0 GPH UP TO 45 PSI
VOLTAGE & PHASE:	115V/1P
TANK CAPACITY:	55 GALLONS

CIP CITRIC ACID FEED SYSTEM

QUANTITY:	1
TAG #:	P-6106
MFR/MODEL:	SHURFLO 2088-394-144
CAPACITY:	3.0 GPH UP TO 45 PSI
VOLTAGE & PHASE:	115V/1P
TANK CAPACITY:	55 GALLONS

UV DISINFECTION SYSTEM:

QUANTITY:	3 DUTY, 3 REDUNDANT IN SERIES
TAG #:	UV-0801A, UV-0802A, UV-0801B UV-0802B, UV-0801C, UV-0802C
MFR/MODEL:	HALLETT 1000W
DOSE:	30 MJ/CM2 @ 65% UVT
POWER:	120V/1P

EFFLUENT FLOW MEASUREMENT:

QUANTITY:	2
TAG NO.:	FIT-0701A; FIT-0701B
TYPE:	MAGNETIC FLOW METER
MFR/MODEL:	IFM EFECTOR SM2601
SIZE:	2.0 INCH

MAJOR EQUIPMENT SUMMARY:

PORTABLE HOIST:

MFR/MODEL:	HALLIDAY PRODUCTS D2B36G W/36" REACH
QUANTITY:	1
HOIST SOCKET/QTY:	EMBED STYLE SOCKET = 5 WALL MOUNT SOCKET = 1

AUTODIALER/ALARMS:

ETHERNET CONNECTION TO CELLULAR HOTSPOT

PRIMARY POWER:

PRIMARY POWER:	MOUNTAIN VIEW ELECTRIC ASSOCIATION
SERVICE:	480 VOLT/3PH

Excluded this sheet and prepared the sheet set as per request on G2.

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COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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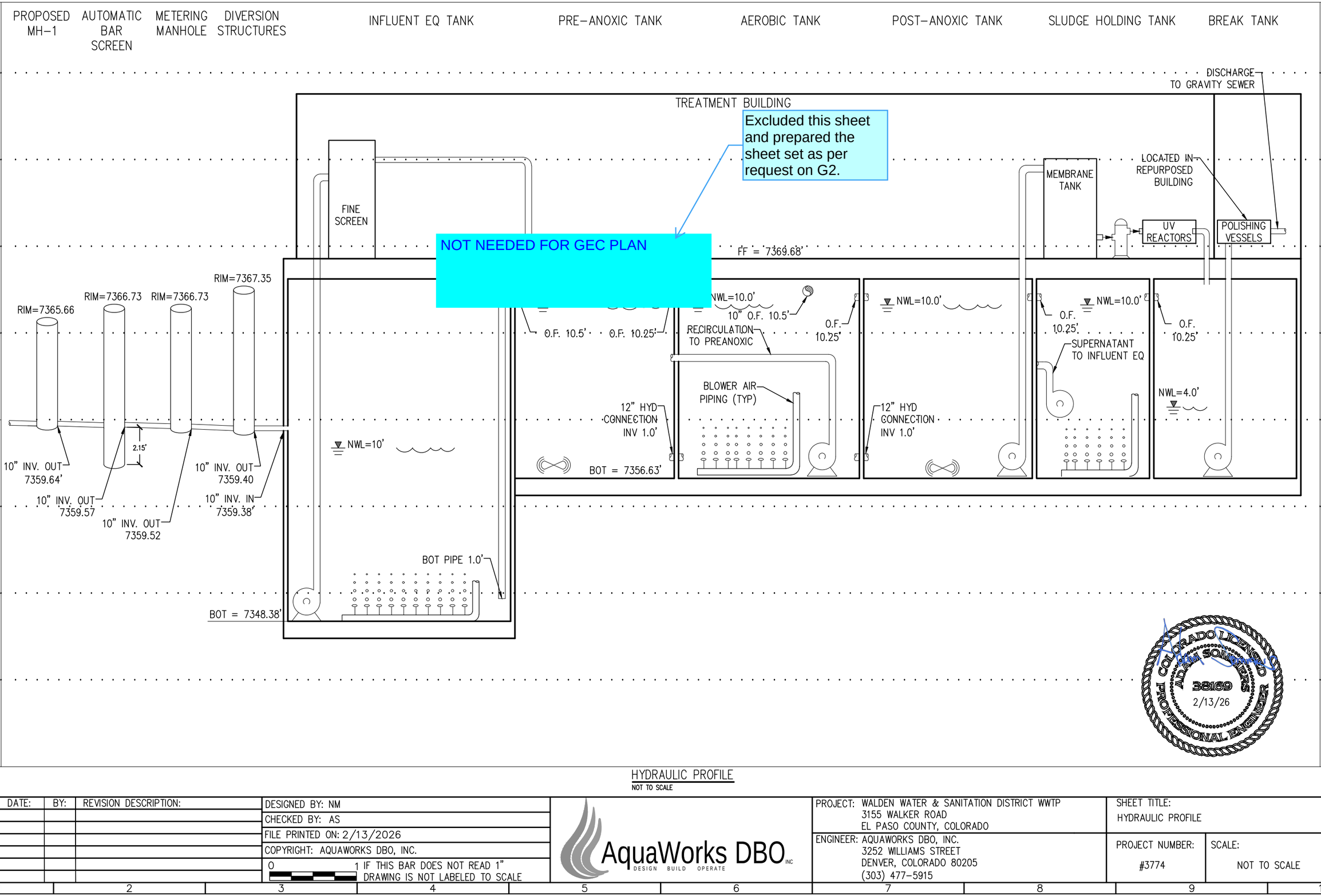
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: DESIGN CRITERIA & MAJOR EQUIPMENT SUMMARY II

PROJECT NUMBER:	SCALE:	SHEET:
#3774	NOT TO SCALE	G6



HYDRAULIC PROFILE
NOT TO SCALE

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477–5915

SHEET TITLE: HYDRAULIC PROFILE

PROJECT NUMBER:	SCALE:	SHEET:
#3774	NOT TO SCALE	G7

INFLUENT

AUTOMATIC BAR SCREEN MANHOLE

FLUME METERING MANHOLE

FLOW DIVERSION MH

INFLUENT EQ. BASIN A

INFLUENT EQ. BASIN B

FLOW DIVERSION MH

CAUSTIC/ALUM SHELF SPARE

CAUSTIC SODA A

ALUM A

AUTOMATIC FINE SCREEN A

AUTOMATIC FINE SCREEN B

EQ BLOWER

EQ BLOWER

RAS

MIXED LIQUOR RECYCLE

PREANOXIC TANK A

AEROBIC TREATMENT TANK A

POSTANOXIC TANK A

SUBMERSIBLE TANK MIXER

HYDRAULIC CONNECTION

MLR PUMPS

HYDRAULIC CONNECTION

FEED FORWARD PUMPS

SUBMERSIBLE TANK MIXER

Excluded this sheet and prepared the sheet set as per request on G2.

NOT NEEDED FOR GEC PLAN

AEROBIC

BLOWERS B

SHELF SPARE

ALUM B

MICRO-C A

MICRO-C B

RAS

MIXED LIQUOR RECYCLE

PREANOXIC TANK B

AEROBIC TREATMENT TANK B

POSTANOXIC TANK B

SUBMERSIBLE TANK MIXER

HYDRAULIC CONNECTION

MLR PUMPS

HYDRAULIC CONNECTION

FEED FORWARD PUMPS

SUBMERSIBLE TANK MIXER

SUBMERSIBLE TANK MIXER SHELF SPARE

SUBMERSIBLE TANK MIXER SHELF SPARE

MEMBRANE TANK A

MEMBRANE TANK B

MEMBRANE BLOWERS

PERMEATE PUMPS A

PERMEATE PUMPS B

WAS GRAVITY LINE A

TP VESSEL 1*

TP VESSEL 2*

SURFACE WATER DISCHARGE

BREAK TANK

TP POLISHING FEED PUMPS*

* DENOTES EQUIPMENT TO BE REMOVED FROM PROJECT SCOPE IF PHOSPHORUS LIMIT IS REMOVED FROM DISCHARGE PERMIT (PENDING).

UV REACTOR 6

UV REACTOR 5

UV REACTOR 4

UV REACTOR 3

UV REACTOR 2

UV REACTOR 1

CITRIC/SODIUM HYPO SHELF SPARE

CITRIC ACID

SODIUM HYPO-CHLORITE

VFD

BACKWASH TANK

WATER

RPZ BACKFLOW PREVENTER

TO WASHDOWN AREAS

WAS

WAS GRAVITY LINE B

SLUDGE HOLDING BASIN

SLUDGE (OFFSITE REMOVAL)

DECANT PUMPS

SLUDGE BLOWERS

SLUDGE SUPERNATANT RETURN LINE B

SLUDGE SUPERNATANT RETURN LINE A

COLORADO LICENSED ADAM SOMMERS 38169 2/13/26 PROFESSIONAL ENGINEER

PROCESS FLOW DIAGRAM

NOT TO SCALE

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

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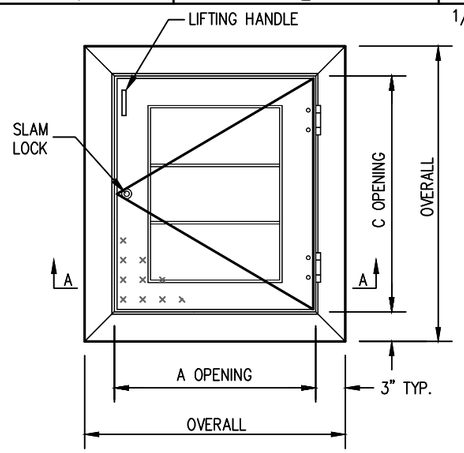
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS FLOW DIAGRAM

PROJECT NUMBER: #3774

SCALE: NOT TO SCALE

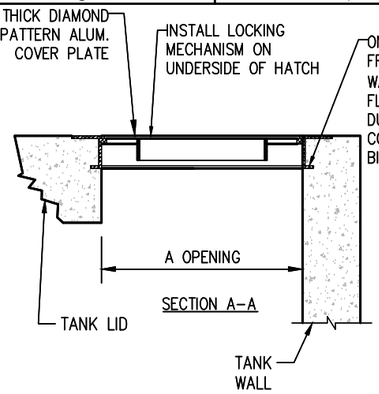
SHEET: G8

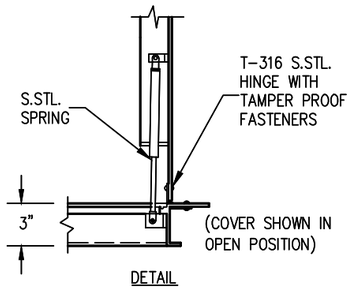


SERIES S1S ACCESS DOOR

STANDARD FEATURES:

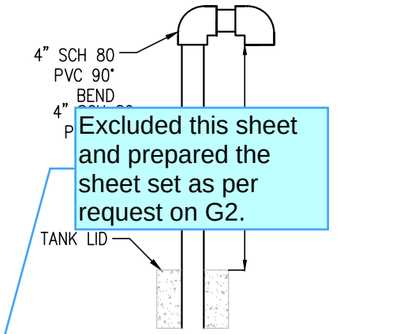
- 300 LBS. PER SQ. FT. LOAD RATING
- EXTRUDED ALUMINUM ANGLE FRAME
- SINGLE LEAF CONSTRUCTION
- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- BUILT-IN EPDM CUSHION/GASKET
- NON-OZONE DEPLETING BITUMINOUS COATING
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE





STANDARD SIZES			
MODEL NO.	A DIM. INCHES	C DIM. INCHES	UNIT WT. LBS.
S1S2424	24	24	37
S1S2430	24	30	42
S1S2436	24	36	48
S1S2442	24	42	55
S1S2448	24	48	61
S1S3030	30	30	49
S1S3036	30		
S1S3042	30		
S1S3048	30		
S1S3054	30		
S1S3060	30		
S1S3636	36		
S1S3642	36	42	79
S1S3648	36	48	85
S1S3654	36	54	91
S1S3660	36	60	100
S1S3666	36	66	109
S1S3672	36	72	116
S1S4242	42	42	93
W2C4848	48	48	142

HATCH DETAIL 1 / G9
NTS



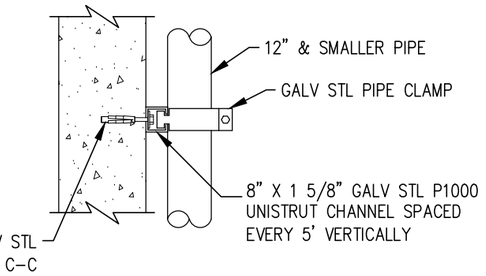
Excluded this sheet and prepared the sheet set as per request on G2.

NOTE:

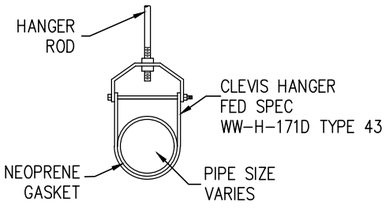
NOT NEEDED FOR GEC PLAN

L #4 MESH OVER OPENING
STALL #24 MESH OVER OPENING
UILDING COLOR

AIR VENT DETAIL 2 / G9
NTS

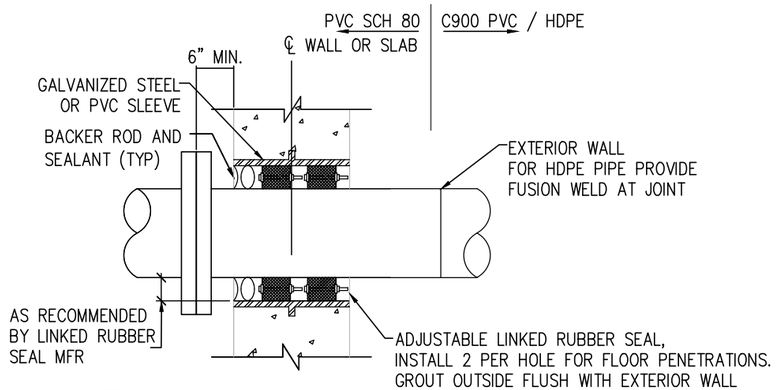


TYPICAL PIPE SUPPORT DETAIL 3 / G9
NTS



PIPE SIZE	HANGER ROD DIA
2" & SMALLER	3/8"
2 1/2"	1/2"
3" & 4"	5/8"
6" THRU 12"	3/4"

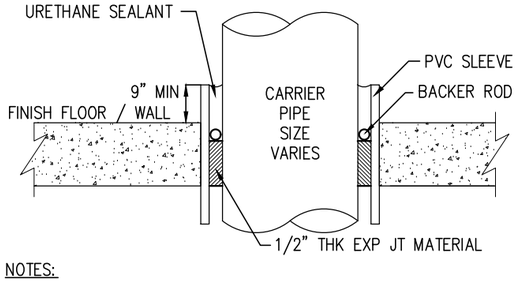
PIPE HANGER SUPPORT DETAIL 4 / G9
NTS



NOTE:

1. TYPE A FOR SUBMERGED AND BELOW GRADE EXTERNAL PENETRATIONS

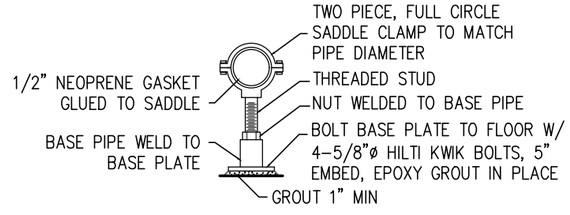
PENETRATION DETAIL TYPE A 5 / G9
NTS



NOTES:

1. TYPE B FOR NON-SUBMERGED PENETRATIONS, ABOVE GRADE PENETRATIONS.
2. FOR FOUNDATION WALL PENETRATION PROVIDE 1" ANNULAR SPACE AROUND CARRIER PIPE AND SEAL WITH URETHANE SEALANT ONLY TO PERMIT MOVEMENT.
3. LINK SEAL AND GROUT REQUIRED FOR ALL EXTERIOR TANK WALL PENETRATIONS. GROUT REQUIRED FOR ALL INTERNAL PENETRATIONS THROUGH EQUALIZATION TANK WALL.

PENETRATION DETAIL TYPE B 6 / G9
NTS



PIPE SIZE	CLAMP SIZE	THREADED STUD DIA	BASE PLATE	BASE PIPE
2", 3"	.375"x1.5"	.75"	6"x6"	2"
4" - 12"	.5"x2"	1"	8"x8"	2"
14" - 16"	.625"x3"	1.5"	12"x12"	3"
18" - 24"	.75"x4"	2"	12"x12"	4"

STANCHION PIPE SUPPORT 7 / G9
NTS

COLORADO LICENSED ARAM SOMMERS 38169 2/13/26 PROFESSIONAL ENGINEER

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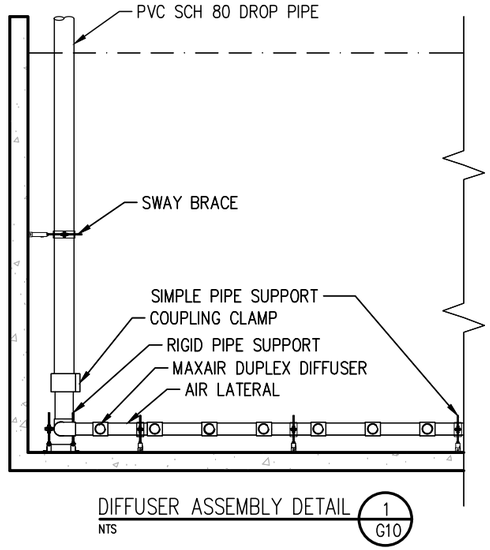
AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

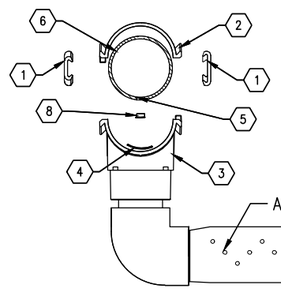
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS DETAILS I

PROJECT NUMBER:	SCALE:	SHEET:
#3774	NOT TO SCALE	G9



DIFFUSER ASSEMBLY DETAIL 1 G10
NTS



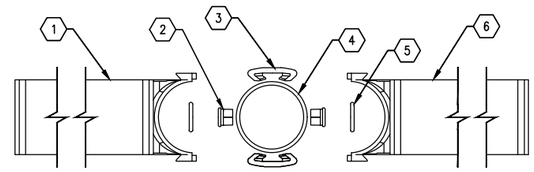
EQUIPMENT NOTES:
1. LOCKING WEDGE (2)
2. LOCKING LUG
3. SDM BODY (1)
4. O-RING (1)
5. AIR OUTLET IN LATERAL (1)
6. AIR SUPPLY LATERAL (1)
7. DIFFUSER TUBE (1)
8. ALIGNMENT PLUG (1)

NOTE:
1. TYPE A DETAIL FOR EQUALIZATION BASIN AND SLUDGE HOLDING TANK DIFFUSERS

Excluded this sheet and prepared the sheet set as per request on G2.

NOT NEEDED FOR GEC PLAN

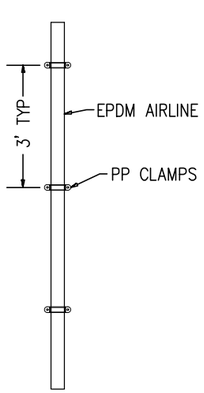
AIL 2 G10



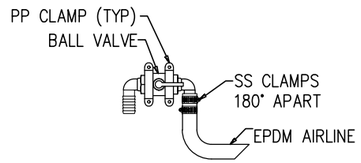
EQUIPMENT NOTES:
1. MALE DIFFUSER
2. ALIGNMENT PLUG
3. WEDGE
4. LATERAL PIPE
5. O-RING
6. FEMALE DIFFUSER

NOTE:
1. TYPE B DETAIL FOR AEROBIC TANK DIFFUSERS

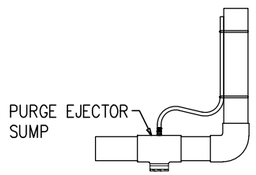
DIFFUSER TYPE B DETAIL 3 G10
NTS



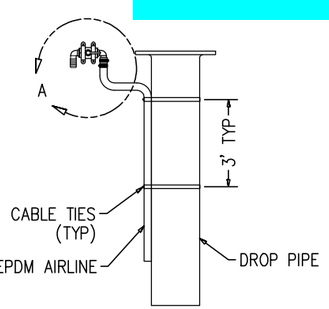
WALL MOUNT OPTION

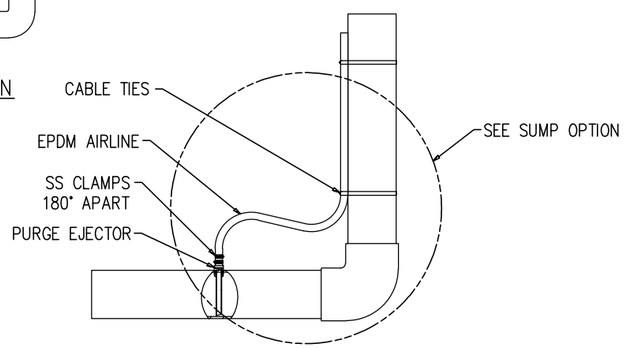


DETAIL A



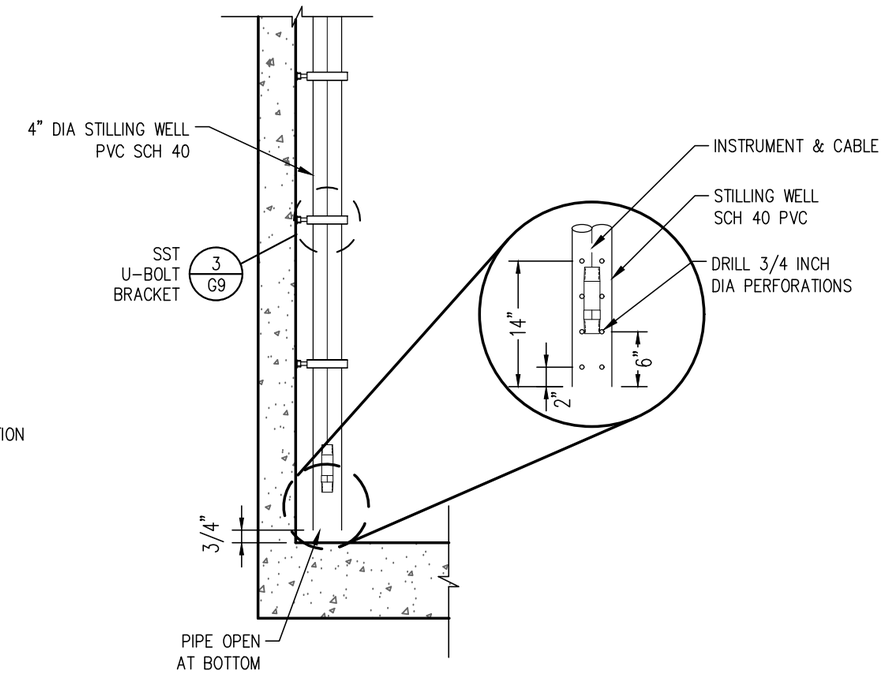
SUMP OPTION





NOTES:
1. WHEN ASSEMBLING THREADED CONNECTIONS USE PIPE DOPE, AND ENSURE THE CONNECTIONS ARE NOT OVER TIGHTENED.
2. ROUTE AND SECURE AIRLINE IN A MANNER TO PREVENT KINKS OR POTENTIAL CONTACT WITH ANY SHARP OBJECTS.
3. LOCATE THE PURGE VALVE IN AN AREA THAT'S EASILY ACCESSIBLE.

DIFFUSER PURGE LINE DETAIL 4 G10
NTS



INSTRUMENT STILLING WELL DETAIL 5 G10
NTS

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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AquaWorks DBO INC
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PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS DETAILS II

PROJECT NUMBER: #3774
SCALE: NOT TO SCALE
SHEET: G10

SERIES DB PORTABLE HOIST

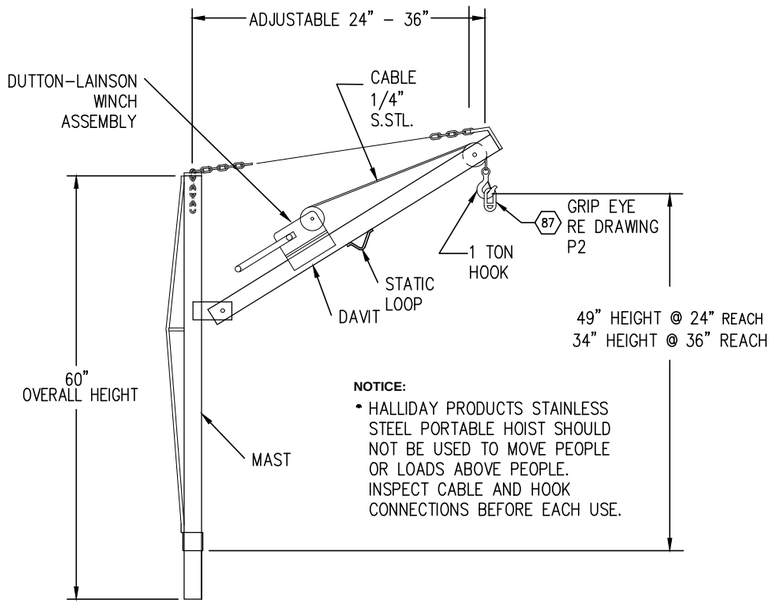
HALLIDAY PRODUCTS
www.HallidayProducts.com
Phone 800-298-1027
Fax 407-298-4534
Sales@HallidayProducts.com

HALLIDAY PRODUCTS
www.HallidayProducts.com
Phone 800-298-1027
Fax 407-298-4534
Sales@HallidayProducts.com

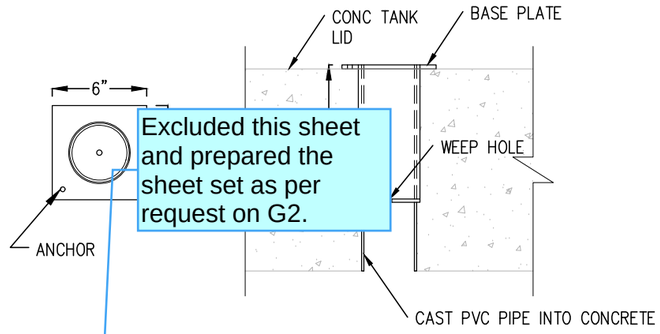
STANDARD FEATURES:

- TYPE-304 STAINLESS STEEL CONSTRUCTION
- 30 FEET OF 1/4" STAINLESS STEEL CABLE
- GALVANIZED 1 TON HOOK
- DUTTON-LAINSON MARINE GRADE BRAKE WINCH
- ADJUSTABLE REACH IN 1" INCREMENTS

SIZES & QUANTITY				
QTY.	MODEL NO.	CABLE SIZE INCHES	MAX. LOAD LBS.	UNIT WT. LBS.
1	D2B36G	1/4"	1000	96



PORTABLE HOIST 1 G11
NTS

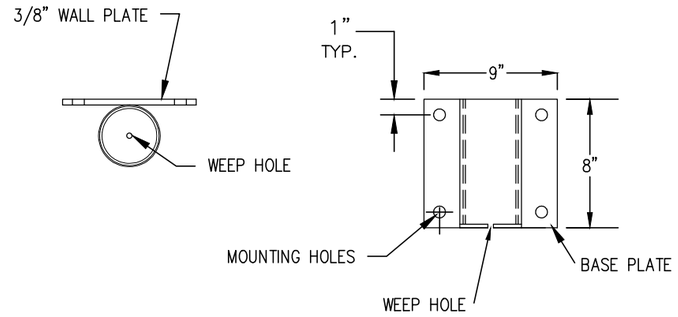


Excluded this sheet and prepared the sheet set as per request on G2.

NOT NEEDED FOR GEC PLAN

ELEVATION:

HOIST SOCKETS	
	FOR HOIST MODELS
	D1A AND D1B
D2S LINED	D2A AND D2B
D3S LINED	D3A AND D3B



PLAN: ELEVATION:

WALL STYLE HOIST SOCKETS	
SOCKET MODEL #	FOR HOIST MODELS
D1S LINED	D1A AND D1B
D2S LINED	D2A AND D2B
NOT AVAILABLE	D3A AND D3B

EMBED STYLE HOIST SOCKETS

EMBED STYLE HOIST BASE LOCATIONS:

1. INFLUENT EQ TANK A
2. INFLUENT EQ TANK B
3. PRE-ANOXIC TANK A
4. PRE-ANOXIC TANK B
5. AEROBIC TANK A
6. AEROBIC TANK B
7. POST-ANOXIC TANK A
8. POST-ANOXIC TANK B
9. SUDGE HOLDING TANK

HOIST BASE 2 G11
NTS

WALL STYLE HOIST SOCKETS

WALL STYLE HOIST SOCKET LOCATIONS:

1) INFLUENT BARSCREEN MANHOLE (RE: CIVIL)

COLORADO LICENSED
ADAM SOMMERS
38169
PROFESSIONAL ENGINEER
2/13/26

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: METALS DETAILS

PROJECT NUMBER:	SCALE:	SHEET:
#3774	NOT TO SCALE	G11

LEGEND

ADJACENT PROPERTY LINE

PROPERTY LINE

25' SETBACK LINE

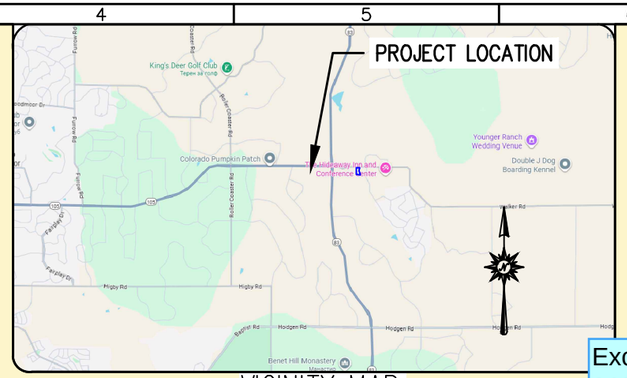
LIMIT OF PROPOSED DEVELOPMENT

WWTP PROPOSED WWTP

INGRESS/EGRESS ARROWS

RR-0.5:
RESIDENTIAL RURAL ZONE (0.5 ACRES)

PROJECT LOCATION



VICINITY MAP
NOT TO SCALE

0 100 200 FEET

S1° 46' 10.68"W L=139.99
25' BSL

S12° 45' 13.68"W L=329.91
25' BSL

S1° 45' 23.68"W L=199.97
25' BSL

S10° 13' 39.32"E L=189.99
25' BSL

S7° 43' 52.33"E L=139.79
25' BSL

N20° 12' 19.32"W L=135.99
25' BSL

25.00' BUILDING SETBACK BUFFER ZONE

PUD: PLANNED UNIT DEVELOPMENT ZONE

S88° 12' 20.32"E L=300.00

FEMA ZONE A
FIRM PANEL:
08041C0285G
EFF. 12/7/2018

L=521.07
N25° 18' 05.83"W

N69° 49' 00.75"E L=200.43

25' ESL

WALKER RD

PROPOSED DUMPSTER PAD

EXISTING POND

PROPOSED INFLUENT LINE

EXISTING WWTP STRUCTURES

EX SS

PROPOSED PARKING AREA

EXISTING INFLUENT LINE-A

BOUNDARY OF DISTURBED AREA PROPOSED FOR RE-SEEDING

LIMIT OF PROPOSED DITCH DEVELOPMENT IMPACT AREA

EXISTING POND

PROPOSED OUTLET STRUCTURE

WWTP

EXISTING INFLUENT LINE-B

LIMIT OF PROPOSED WWTP DEVELOPMENT IMPACT AREA

103.66'

37.17'

EXISTING PAVED ROAD

EXISTING GRAVEL ROAD

NEW WWTP BUILDING SITE

S88° 12' 10.15"E L=410.30

S23° 39' 18.32"E L=818.26

PROPOSED EFFLUENT LINE

EXISTING PAVED ROAD

INGRESS/EGRESS

EXISTING POND (APPROVED WITH MOUNTAIN VIEW ACADEMY PROJECT)

25.00' BUILDING SETBACK BUFFER ZONE

CURRENTLY DISTURBED 130864.48 SQ FT STOCKPILE AREA TO BE REGRADED TO PRE-STOCKPILE CONDITIONS AND PERMANENTLY STABILIZED TO ACHIEVE MINIMUM 70% VEGETATIVE COVER SEE CONSTRUCTION DRAWINGS (GEC PLAN). PROPOSED RE-SEEDING

25' BSL

L=1532.38
N0° 25' 26.84"E

SITE DEVELOPMENT PLAN
1"=100'

RR-5: RESIDENTIAL RURAL ZONE (5 ACRES)

ED FOR APPROVAL GRAVEL ROAD (EXISTING ON-SITE)

L=854.96
N89° 35' 01.32"W

25' BSL

Excluded this sheet and prepared the sheet set as per request on G2.

Made this sheet a part of Site Development project.

SITE DATA TABLE:

OWNER NAME:	WALDEN CORPORATION
PHONE NUMBER:	719-243-1111
EMAIL ADDRESS:	billdunston@gmail.com
PROPERTY ADDRESS:	WALDEN SANITATION DISTRICT WWTP 3155 WALKER ROAD COLORADO SPRINGS EL PASO COUNTY, COLORADO
TAX SCHEDULE NUMBER:	R6114004015
ZONING:	RR-5 RESIDENTIAL RURAL ZONE (5 ACRES)
LEGAL DESCRIPTION:	T TRACT IN NE4 SEC 15-11-66 AS FOLS, COM AT NE COR OF SD SEC 15, TH N 88<13'11" W ON N LN THEREOF 2225.64 FT, TH S 1<46'49" W 30.00 FT TO S R/W LN OF HWY 50 FOR POB, TH S 25<17' E 520.99 FT, S 1<46'49" W 200.00 FT, S 69<46'49" W 200.00 FT, N 23<40'09" W 818.25 FT TO S R/W LN OF HWY 50, TH S 88<13'11" E ALG SD S LN 300.00 FT TO POB

LOT COVERAGE CALCULATION:

AREA	AREA (AC)	AREA (SQ.FT)
EXISTING LOT SIZE	25.00	1,089168.45
EXISTING LOT COVERAGE	0.41	17,736.71 (1.62%)
PROPOSED LOT COOVERAGE	0.54	23,653.11 (2.17%)

PROPOSED PARKING:

PARKING SPOTS PROVIDED:	2
PARKING SPOTS REQUIRED:	1

ADA NOTE:

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

THE OWNER (S) AGREE ON BEHALF OF HIM/HERSELF AND ANY DEVELOPER OF BUILDER SUCCESSORS AND ASSIGNEES THAT THE OWNER AND/OR SAID SUCCESSORS AND ASSIGNS SHALL BE REQUIRED TO PAY TRAFFIC IMPACT FEES IN ACCORDANCE WITH THE EL PASO COUNTY ROAD IMPACT FEE PROGRAM (RESOLUTION NO. 25-337), OR ANY AMENDMENTS THERETO, AT OR PRIOR TO THE TIME OF BUILDING PERMIT SUBMITTALS. THE FEE OBLIGATION, IF NOT PAID AT FINAL PLAT RECORDING, SHALL BE DOCUMENTS ON ALL SALES DOCUMENTS AND IN PLAT NOTES TO ENSURE THAT A TITLE SEARCH WOULD FIND THE FEE OBLIGATION BEFORE SALE OF THE PROPERTY.

COLORADO LICENSED ADAM SOMMER 38169 PROFESSIONAL ENGINEER 2/13/26

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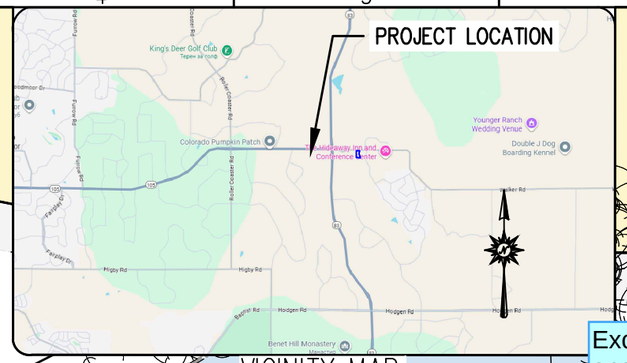
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: SITE DEVELOPMENT PLAN

PROJECT NUMBER: PCD FILE PPR2538
SCALE: 1"=100'
SHEET: C1.1



VICINITY MAP
NOT TO SCALE

0 80 160 FEET

S1° 46' 10.68"W L=139.99
25' BSL
S12° 45' 13.68"W L=329.91
25' BSL
N20° 12' 19.32"W L=135.99
25' BSL
S10° 13' 39.32"E L=189.99
25' BSL
25.00' BUILDING SETBACK BUFFER ZONE
S88° 12' 20.32"E L=300.00
25' BSL
L=521.07 N25° 18' 05.83"W
S23° 39' 18.32"E L=818.26
S88° 12' 10.15"E L=410.30
WALKER RD

FEMA ZONE A
FIRM PANEL:
08041C0285G
EFF. 12/7/2018

EXISTING BAR SCREEN TO BE REMOVED 17.08 SQ FT
ELECTRIC TRANSFORMER TO BE REMOVED 26.91 SQ FT
EXISTING INFLUENT PIPE TO BE ABANDONED IN PLACE
10 LF OF EXISTING INFLUENT PIPE TO BE CUT AND PLUGGED
EXISTING FLOW METER TO BE REMOVED 47.60 SQ FT
PROPOSED CONCRETE DUMPSTER PAD 393.63 SQ FT
EXISTING FENCE TO BE RELOCATED 435 LF
PROPOSED TRANSFORMER PAD 61.11 SQ FT
PROPOSED INFLUENT LINE
EXISTING WWTP STRUCTURES TO REMAIN
PROPOSED GRAVEL WITH PARKING AREA 5216.16 SQ FT
EXISTING INFLUENT LINE-A
PROPOSED WWTP CONCRETE LID AREA 3852.64 SQ FT
LIMIT OF PROPOSED DITCH DEVELOPMENT IMPACT AREA 1180.40 SQ FT
PROPOSED OUTLET STRUCTURE
EXISTING POND
EXISTING MHS TO BE DEMOLISHED
LIMIT OF PROPOSED WWTP DEVELOPMENT IMPACT AREA 12576.04 SQ FT
EXISTING INFLUENT LINE-B
EXISTING PAVED ROAD
EXISTING TREE TO BE REMOVED (3)
EXISTING GRAVEL ROAD
103.66'
37.17'
NEW WWTP BUILDING SITE
LIMIT OF PROPOSED PIPE DISTURBED AREA 3014.92 SQ FT
PROPOSED EFFLUENT LINE
EXISTING PAVED ROAD
INGRESS/EGRESS
EXISTING POND (APPROVED WITH MOUNTAIN VIEW ACADEMY PROJECT)
CURRENTLY DISTURBED 130864.48 SQ FT STOCKPILE AREA TO BE REGRADED TO PRE-STOCKPILE CONDITIONS AND PERMANENTLY STABILIZED TO ACHIEVE MINIMUM 70% VEGETATIVE COVER SEE CONSTRUCTION DRAWINGS (GEC PLAN). PROPOSED RE-SEEDING
PROPOSED FOR APPROVAL GRAVEL ROAD (EXISTING ON-SITE) 11397.53 SQ FT
25.00' BUILDING SETBACK BUFFER ZONE
EX SS
SS

Excluded this sheet and prepared the sheet set as per request on G2.

Made this sheet a part of Site Development project.

LEGEND
- ADJACENT PROPERTY LINE
- PROPERTY LINE
- 25' SETBACK LINE
- LIMIT OF PROPOSED DEVELOPMENT
- WWTP PROPOSED WWTP
- INGRESS/EGRESS ARROWS

SITE DEVELOPMENT PLAN
1" = 80'

SITE DATA TABLE:

OWNER NAME:	WALDEN CORPORATION
PHONE NUMBER:	719-243-1111
EMAIL ADDRESS:	billdunston@gmail.com
PROPERTY ADDRESS:	WALDEN SANITATION DISTRICT WWTP 3155 WALKER ROAD COLORADO SPRINGS EL PASO COUNTY, COLORADO
TAX SCHEDULE NUMBER:	R6114004015
ZONING:	RR-5 RESIDENTIAL RURAL ZONE (5 ACRES)
LEGAL DESCRIPTION:	T TRACT IN NE4 SEC 15-11-66 AS FOLS, COM AT NE COR OF SD SEC 15, TH N 88<13'11" W ON N LN THEREOF 2225.64 FT, TH S 1<46'49" W 30.00 FT TO S R/W LN OF HWY 50 FOR POB, TH S 25<17' E 520.99 FT, S 1<46'49" W 200.00 FT, S 69<46'49" W 200.00 FT, N 23<40'09" W 818.25 FT TO S R/W LN OF HWY 50, TH S 88<13'11" E ALG SD S LN 300.00 FT TO POB

LOT SOIL DISTURBANCE CALCULATION:

AREA	AREA (AC)	AREA (SQ.FT)
EXISTING DISTURBANCE	6.05	263,436.45
DISTURBANCE DURING CONSTRUCTION (EXISTING DISTURBANCE + CONSTRUCTION DISTURBANCE)	6.70	291,998.97
DISTURBANCE POST CONSTRUCTION (AFTER RE-VEGETATION)	3.68	160,329.18

ADA NOTE:

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.
THE OWNER (S) AGREE ON BEHALF OF HIM/HERSELF AND ANY DEVELOPER OF BUILDER SUCCESSORS AND ASSIGNEES THAT THE OWNER AND/OR SAID SUCCESSORS AND ASSIGNS SHALL BE REQUIRED TO PAY TRAFFIC IMPACT FEES IN ACCORDANCE WITH THE EL PASO COUNTY ROAD IMPACT FEE PROGRAM (RESOLUTION NO. 25-337), OR ANY AMENDMENTS THERETO, AT OR PRIOR TO THE TIME OF BUILDING PERMIT SUBMITTALS. THE FEE OBLIGATION, IF NOT PAID AT FINAL PLAT RECORDING, SHALL BE DOCUMENTS ON ALL SALES DOCUMENTS AND IN PLAT NOTES TO ENSURE THAT A TITLE SEARCH WOULD FIND THE FEE OBLIGATION BEFORE SALE OF THE PROPERTY.

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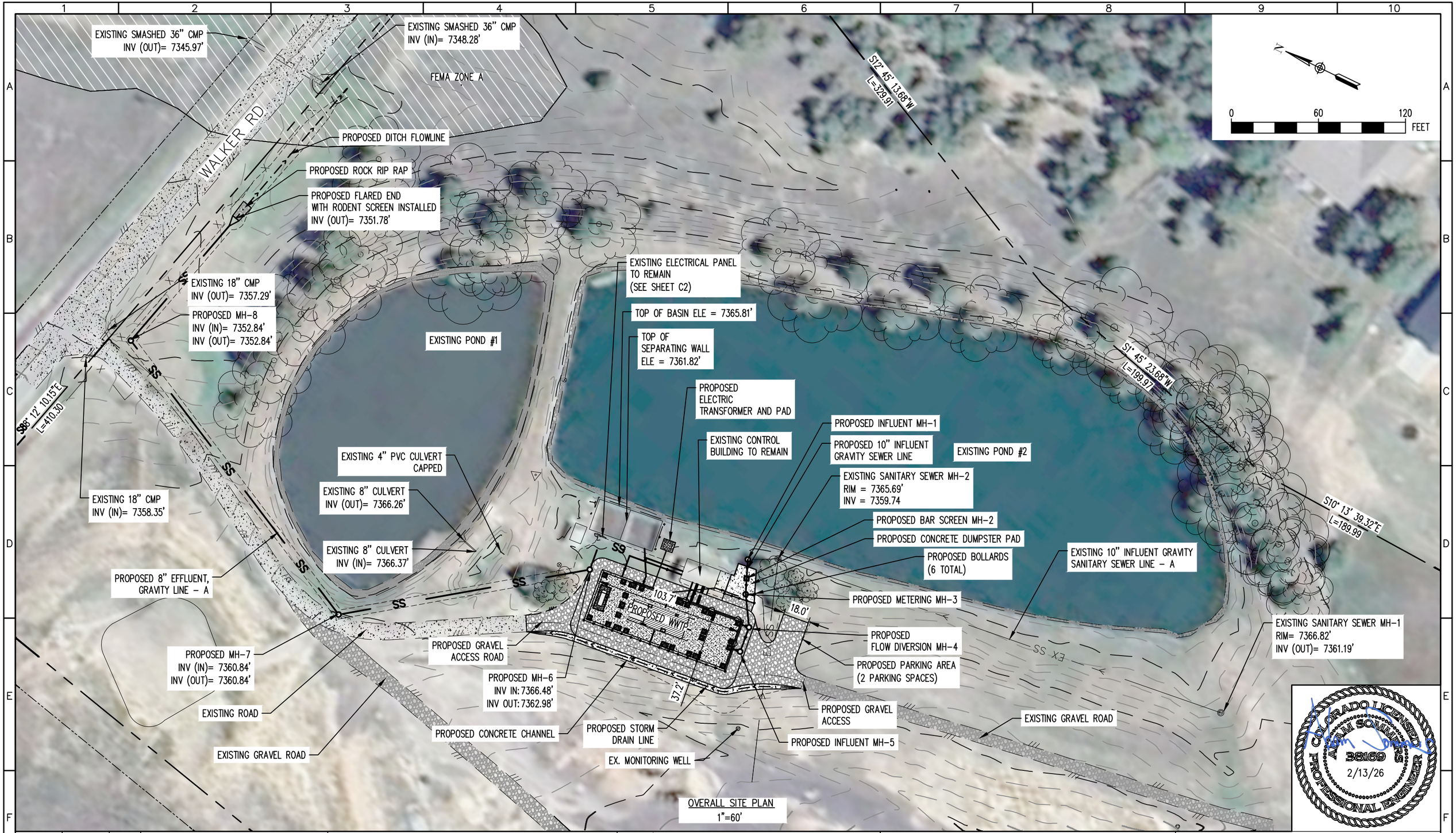
PROJECT: WALDEN CORPORATION WWTP
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: SITE DEVELOPMENT PLAN

PROJECT NUMBER:	SCALE:	SHEET:
PCD FILE PPR2538	1" = 80'	C1.2



OVERALL SITE PLAN
1"=60'

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
OVERALL SITE PLAN

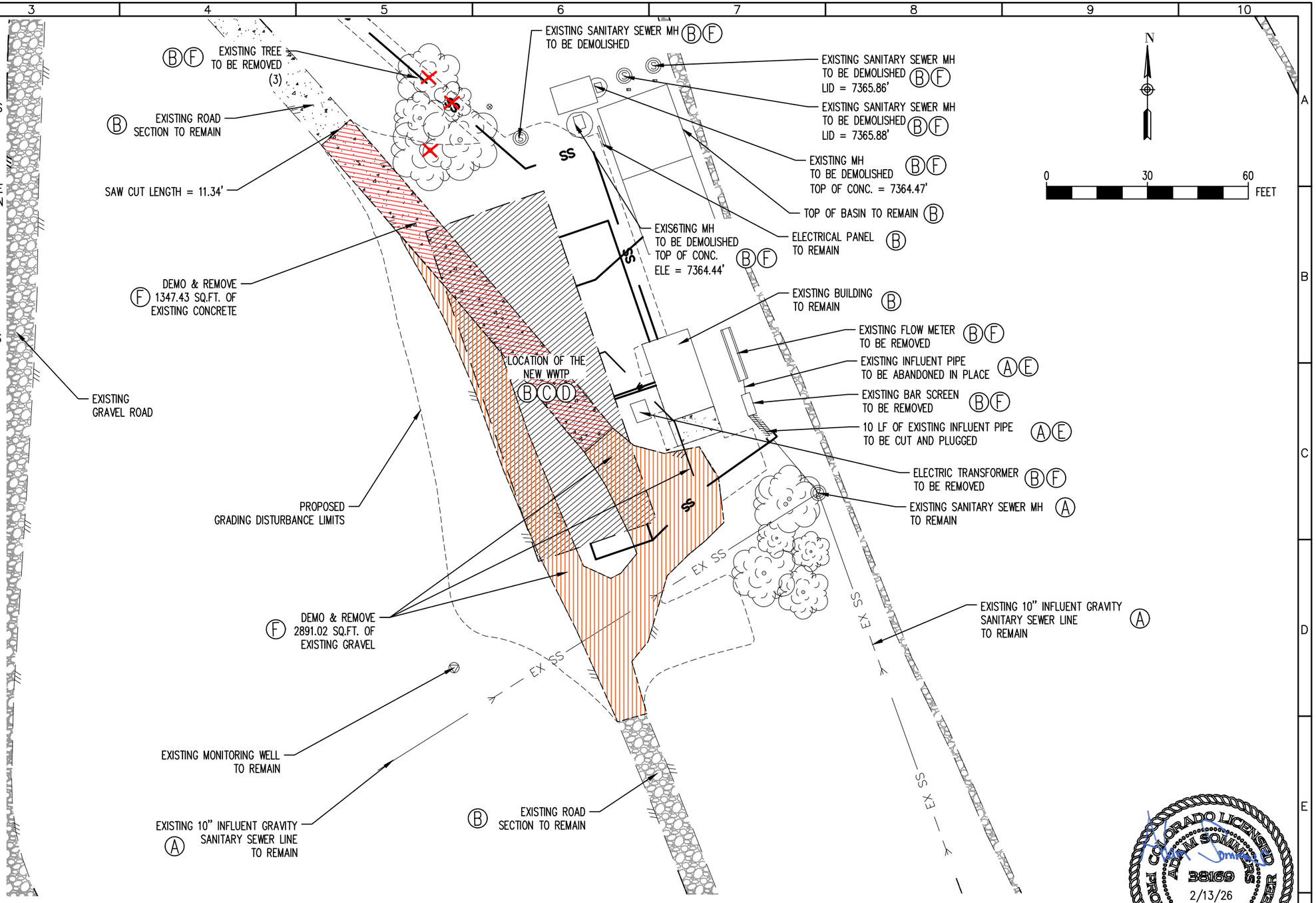
PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=60'	C1.3

DEMOLITION NOTES:

1. SITE DEMOLITION TO BE COORDINATED WITH ENGINEER AND OWNER WITH RESPECT TO EQUIPMENT OR FACILITIES TO REMAIN IN SERVICE, TO BE REMOVED, OR TO BE ABANDONED IN PLACE.
2. THE CONTRACTOR IS NOT TO DAMAGE CURBS, WALKS OR PAVING WHICH IS NOT INCLUDED IN THE SITE PREPARATION OR DEMOLITION SHOWN ON THE PLANS. THE COST TO REPAIR ANY SUCH DAMAGE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. REMOVE AND DISPOSE OF ALL PAVING MATERIALS PROPERLY, INCLUDING BASE COURSE AND ANY OTHER DEBRIS ENCOUNTERED.
4. CONCRETE OR ASPHALT SAWCUTS SHALL BE CRISP CLEAN CUTS THAT ARE NEAT IN APPEARANCE. LOCATE ALL SAWCUTS AS REQUIRED PER DIRECTION OF THE ENGINEER.
5. ALL EXISTING TREES AND VEGETATION ARE TO BE PROTECTED IN PLACE, UNLESS SPECIFICALLY NOTED FOR REMOVAL ON THE PLANS.
6. SITE REVEGETATION SHALL COMPLY WITH THE MUNICIPAL/COUNTY STANDARDS AND THE PROJECT REVEGETATION SPECIFICATION, AND LANDSCAPE PLAN, AS APPLICABLE.
7. THE CONTRACTOR SHALL REPLACE TO ORIGINAL CONDITION OR BETTER AT THEIR EXPENSE ALL VEGETATION THAT IS DAMAGED BY CONSTRUCTION OPERATIONS.
8. THE CONTRACTOR IS TO ADHERE TO SPOT ELEVATIONS AND CONTOURS AS INDICATED ON THE GRADING PLAN. SPOT ELEVATIONS TAKE PRECEDENCE OVER CONTOURS WHERE CONFLICTING INFORMATION IS SHOWN.
9. ALL GRADES ARE TO BE APPROVED BY THE ENGINEER PRIOR TO PERMANENT PLANTING, SEEDING, AND FLAT WORK.
10. ALL AREAS SHALL BE GRADED TO ACHIEVE POSITIVE DRAINAGE, AS DEFINED IN THE SPECIFICATIONS.
11. EXCAVATIONS INCLUDES ALL MATERIAL ENCOUNTERED TO THE DEPTH INDICATED ON THE PLANS. EXCAVATE TO ALLOW FOR PROPER FILL MATERIAL, SLABS, VOIDS, FORMS, AND FOUNDATIONS, AND FOR THE REMOVAL OF UNSUITABLE MATERIALS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING GRADING AND EXCAVATION.
12. ALL BEDDING, BACKFILL SUBGRADE CONSTRUCTION, AND EMBANKMENT SHALL BE CONSTRUCTED ACCORDING TO THE SPECIFICATIONS AND GEOTECHNICAL REPORT.
13. REFER TO GRADING PLAN FOR ALL SITE ELEVATIONS AND GRADING REQUIREMENTS.
14. REFER TO CIVIL DETAIL SHEETS FOR SITE DETAILS.
15. CONTRACTOR AND OWNER TO COORDINATE WITH UTILITY PROVIDERS FOR RELOCATION OF EXISTING INFRASTRUCTURE.

SEQUENCING NOTES (NOT INCLUSIVE OF ALL ACTIVITIES):

A. MAINTAIN EXISTING 10" INFLUENT LINE AND 8" DISCHARGE LINE DURING CONSTRUCTION OF NEW WWTP.
B. EXISTING STRUCTURES, BUILDINGS AND WASTEWATER FACILITIES TO REMAIN OPERATIONAL UNTIL NEW WWTP HAS COMPLETED CLEAN WATER TESTING AND IS READY TO RECEIVE INFLUENT WASTEWATER.
C. CONSTRUCT NEW WWTP. INSTALL SITE PIPING. SEE SHEET C3.
D. CLEAN WATER TEST NEW WWTP IN ACCORDANCE WITH CONTRACT DOCUMENTS AND COMMENCE WASTEWATER TREATMENT AT NEW FACILITY.
E. ABANDON IN PLACE EXISTING WASTEWATER LINES PLUG AND CAP.
F. REMOVE APPROX. 2891.02 SQ.FT. OF EXISTING GRAVEL ROAD, APPROX. 1347.43 SQ.FT. OF EXISTING CONCRETE ACCESS ROAD PAVEMENT, DEMOLISH 3 EXISTING MANHOLES.



SITE DEMOLITION & SEQUENCING PLAN
1"=30'

COLORADO LICENSED ADAM SOMMERS 38169 PROFESSIONAL ENGINEER 2/13/26

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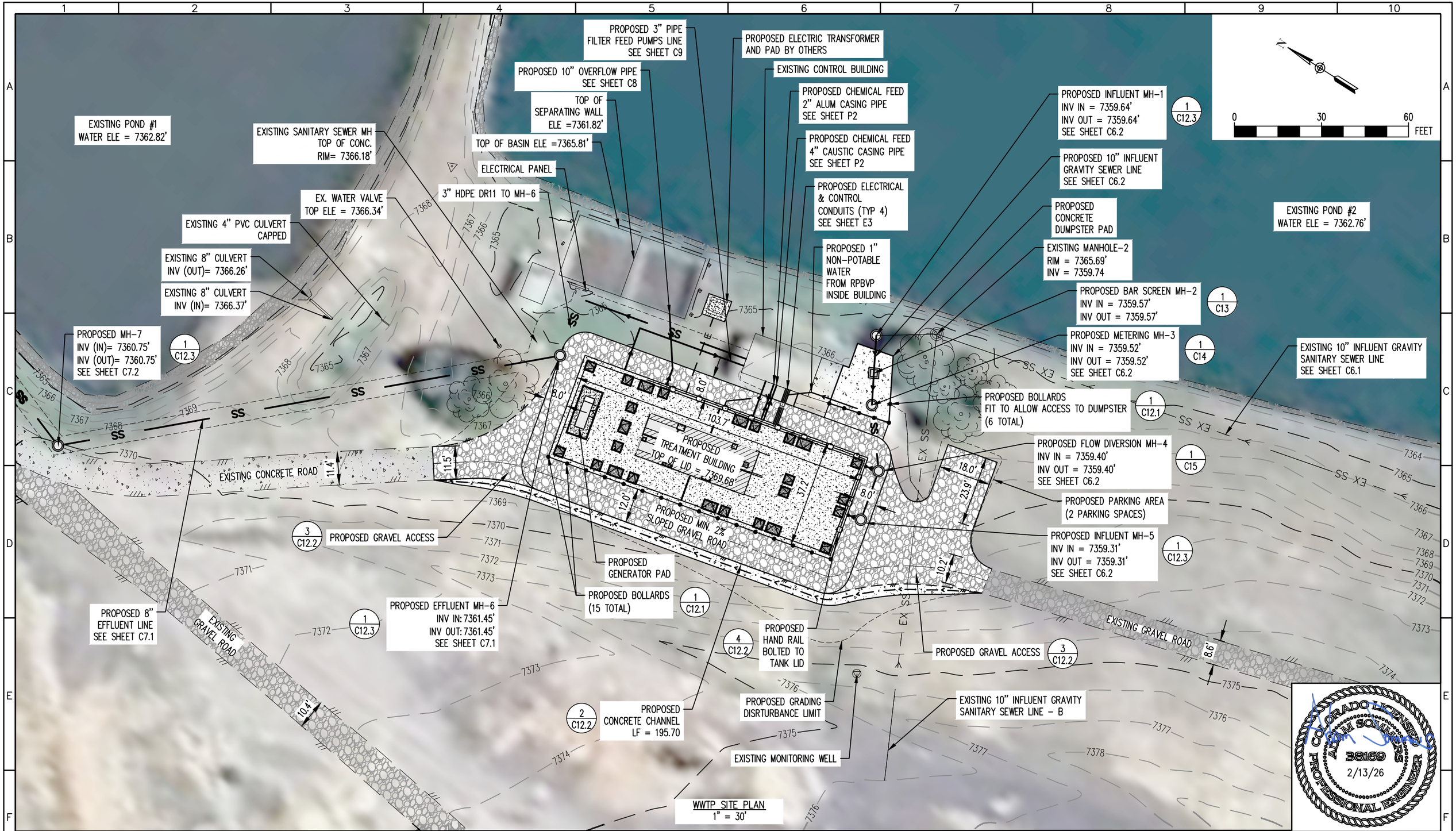
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: SITE DEMOLITION & SEQUENCING PLAN

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=30'	C2



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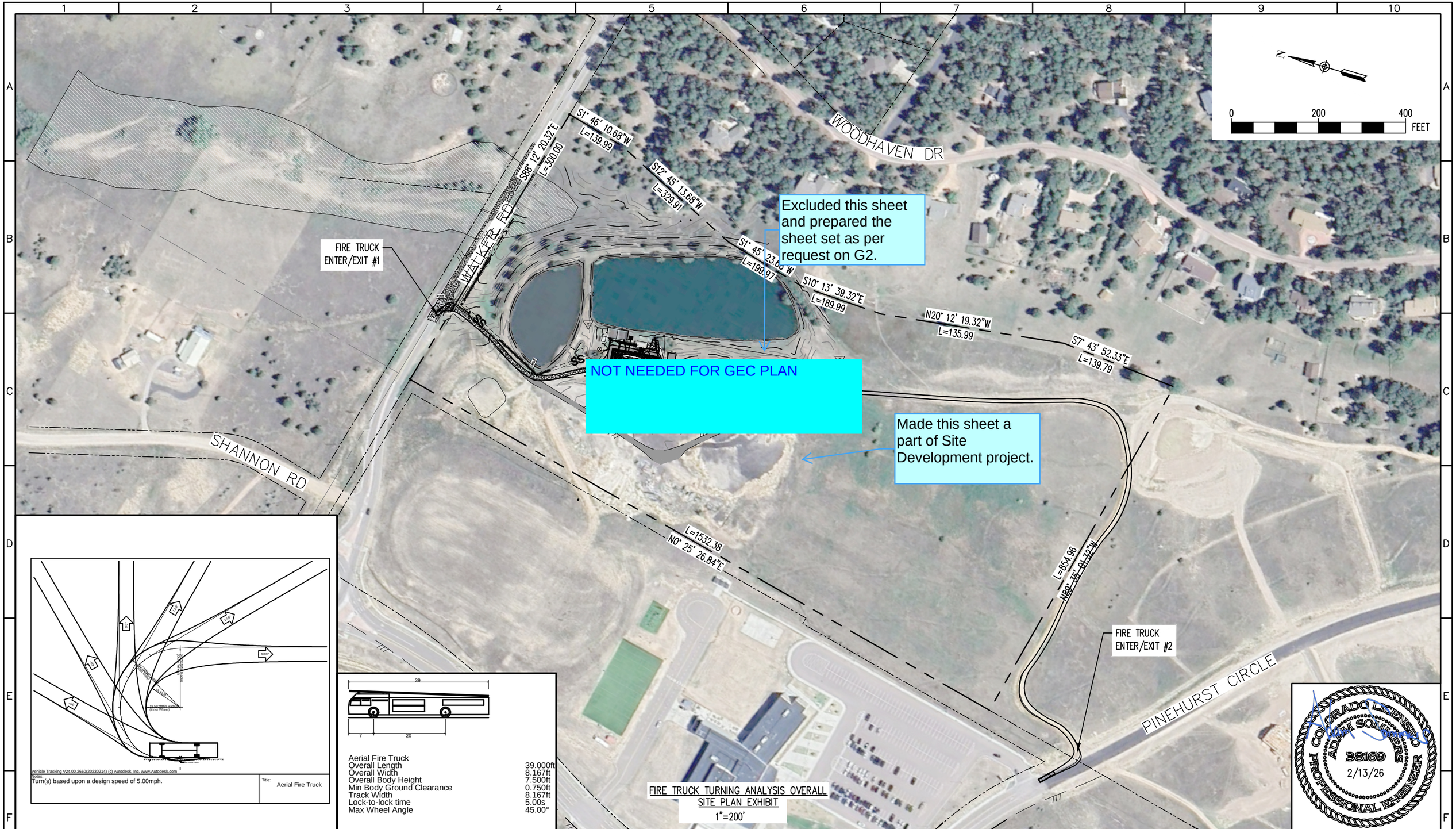
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: WWTP SITE PLAN

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=30'	C3



Aerial Fire Truck	
Overall Length	39.000ft
Overall Width	8.167ft
Overall Body Height	7.500ft
Min Body Ground Clearance	0.750ft
Track Width	8.167ft
Lock-to-lock time	5.00s
Max Wheel Angle	45.00°

FIRE TRUCK TURNING ANALYSIS OVERALL SITE PLAN EXHIBIT
1"=200'

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EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
FIRE TRUCK TURNING ANALYSIS OVERALL SITE PLAN EXHIBIT

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=200'	C3.1

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EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
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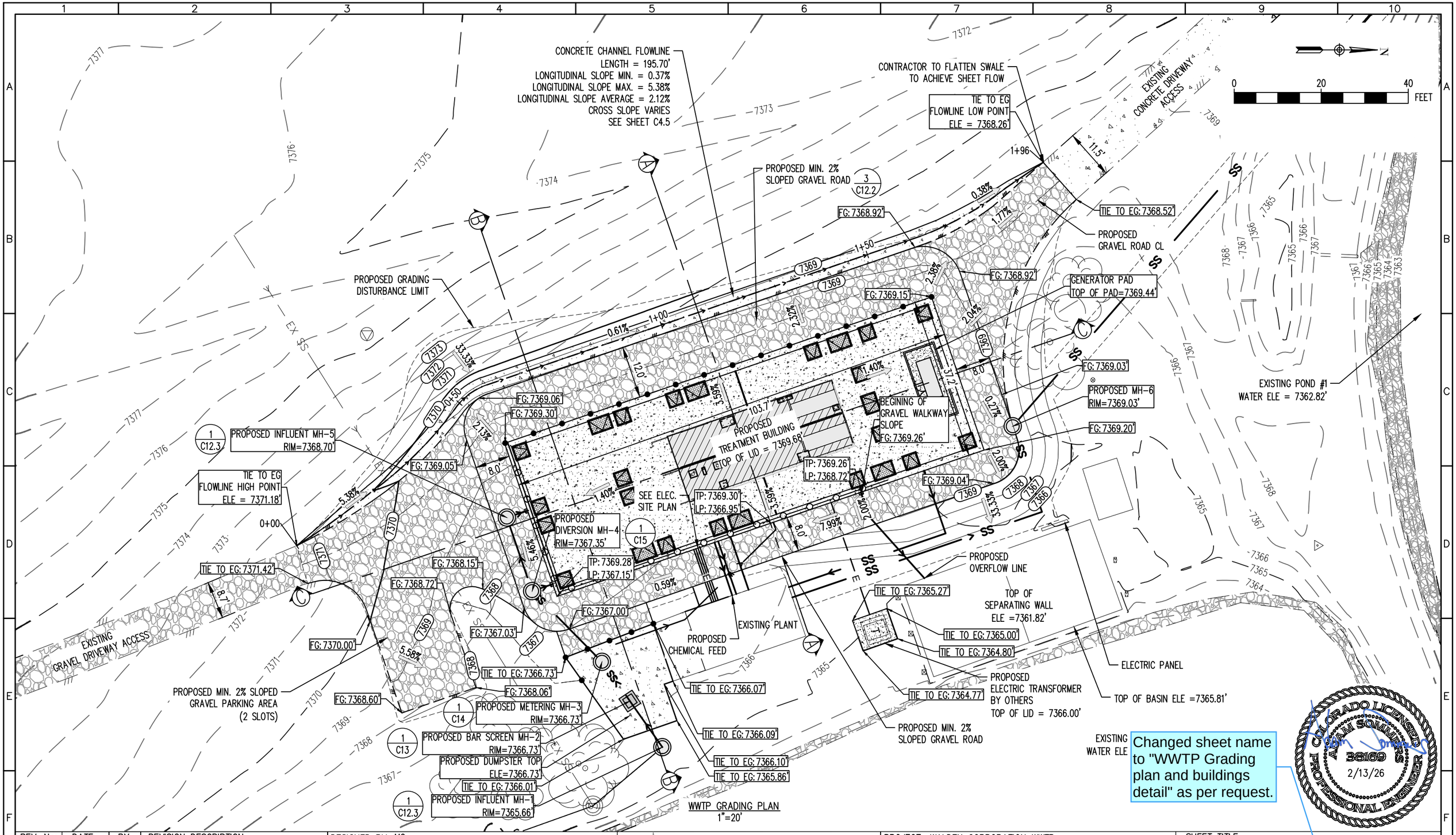
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
FIRE TRUCK TURNING ANALYSIS SITE PLAN EXHIBIT

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=60'	C3.2



Changed sheet name to "WWTP Grading plan and buildings detail" as per request.

COLORADO LICENSED ADAM SOMMERS 38169 PROFESSIONAL ENGINEER 2/13/26

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EL PASO COUNTY, COLORADO

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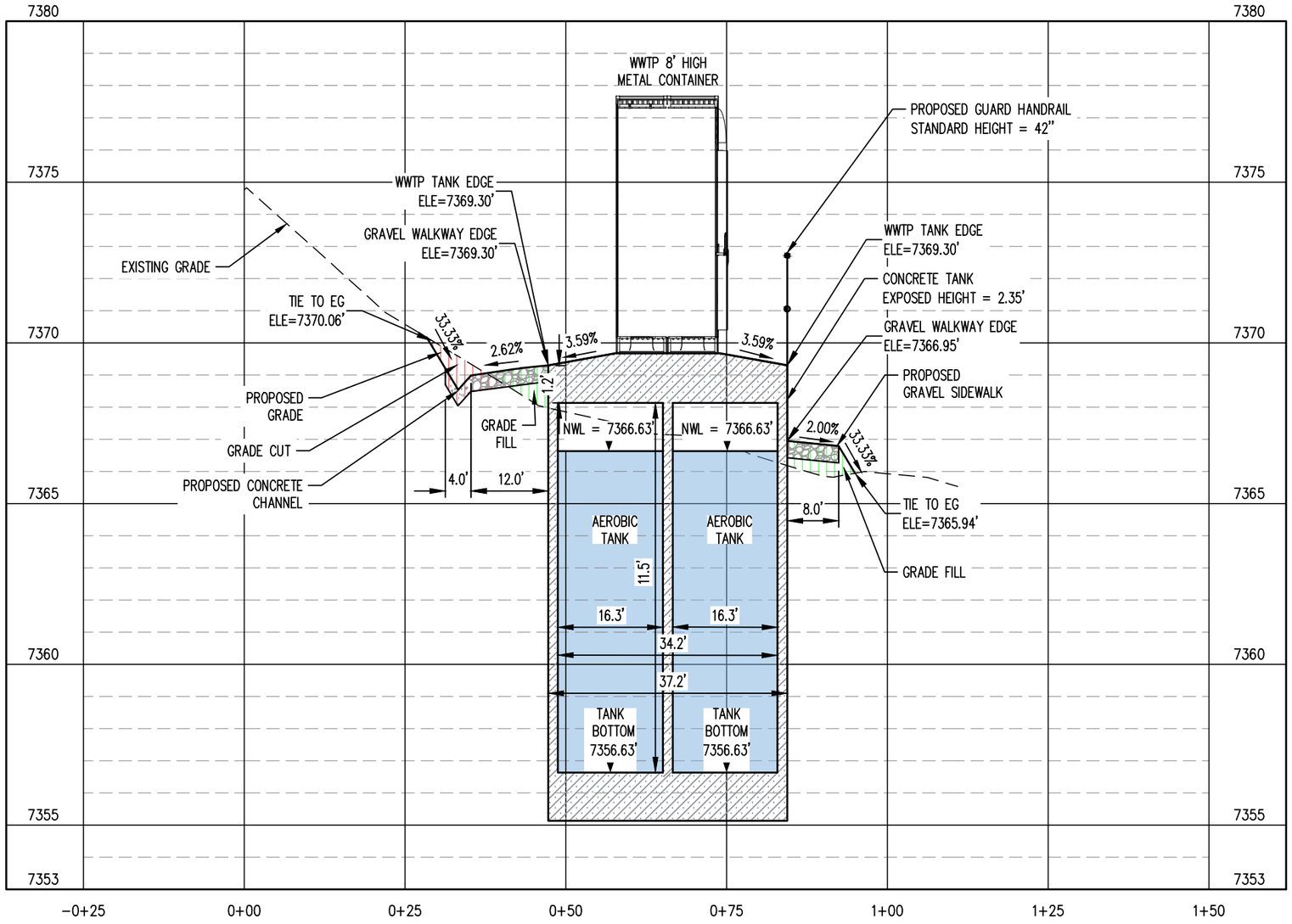
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: WWTP GRADING PLAN

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C4.1



SECTION A-A PROFILE

HORZ. SCALE: 1" = 20'

VERT. SCALE: 1" = 4'

0 20 40 FEET

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ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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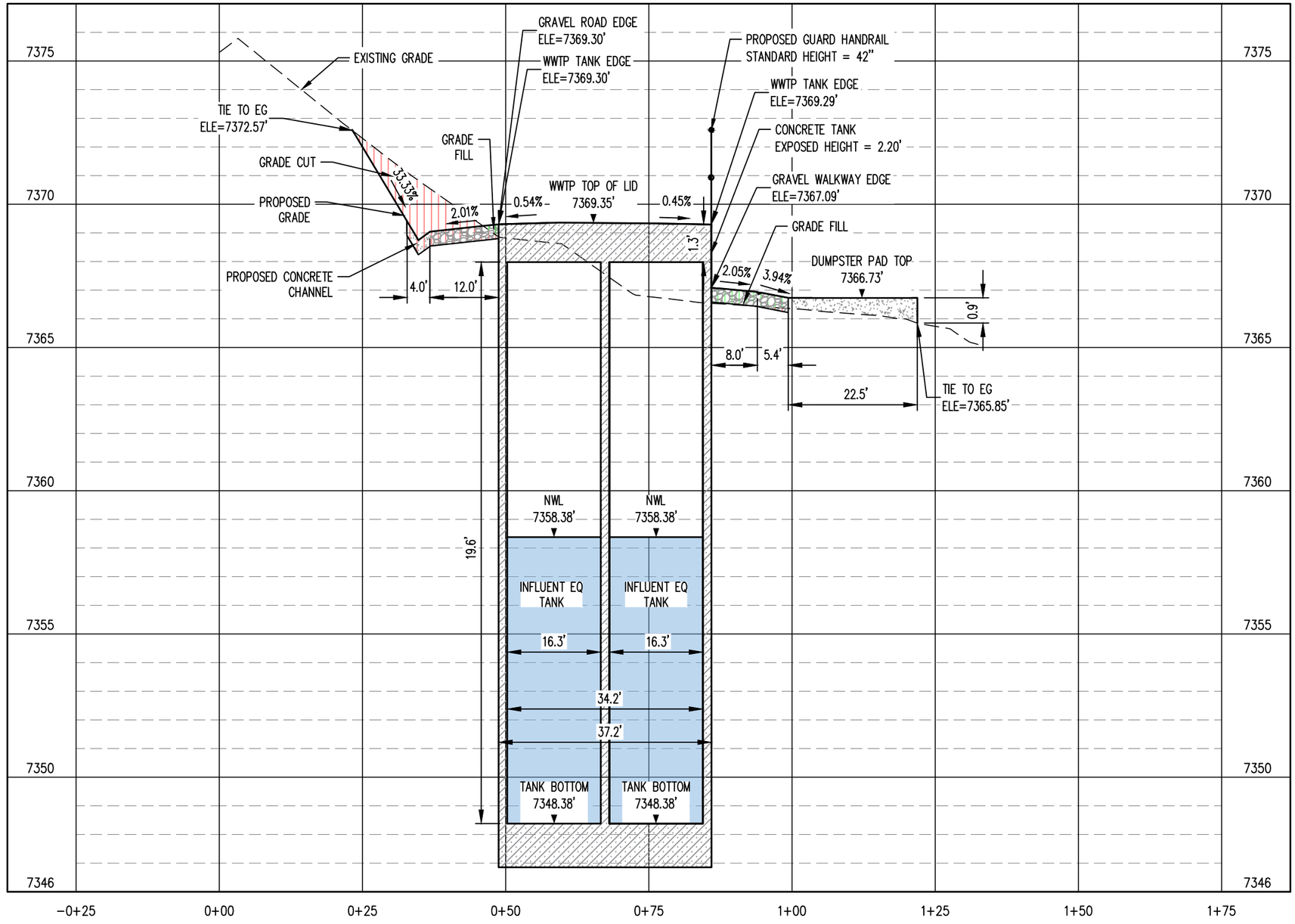
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: GRADING SECTION A-A

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C4.2



0 20 40 FEET

SECTION B-B PROFILE
HORZ. SCALE 1" = 20'
VERT. SCALE: 1" = 4'

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ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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EL PASO COUNTY, COLORADO

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SHEET TITLE:
GRADING SECTION B-B

PROJECT NUMBER:	SCALE:	SHEET:
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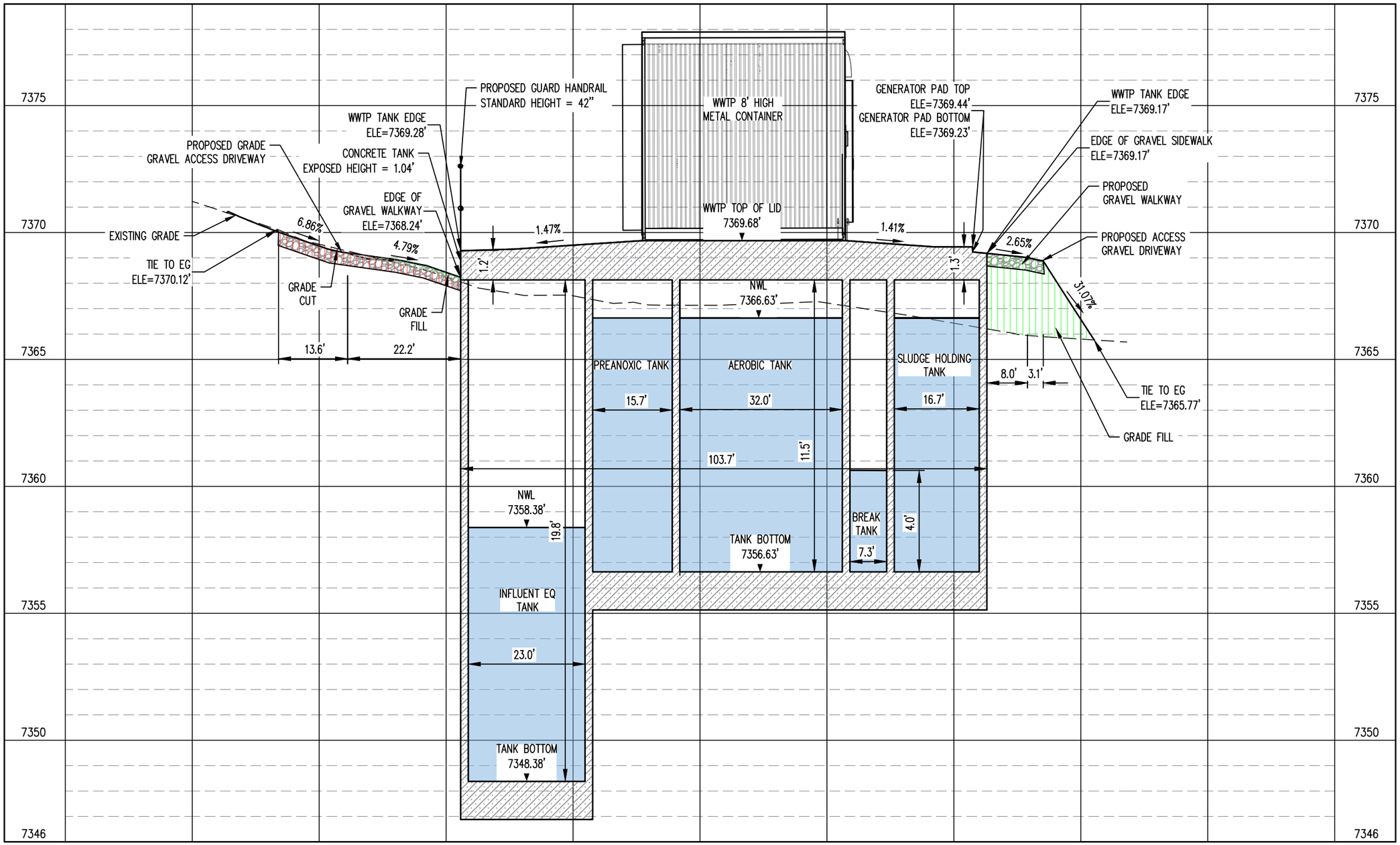

SECTION C-C PROFILE

HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

0 20 40 FEET

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2/13/26
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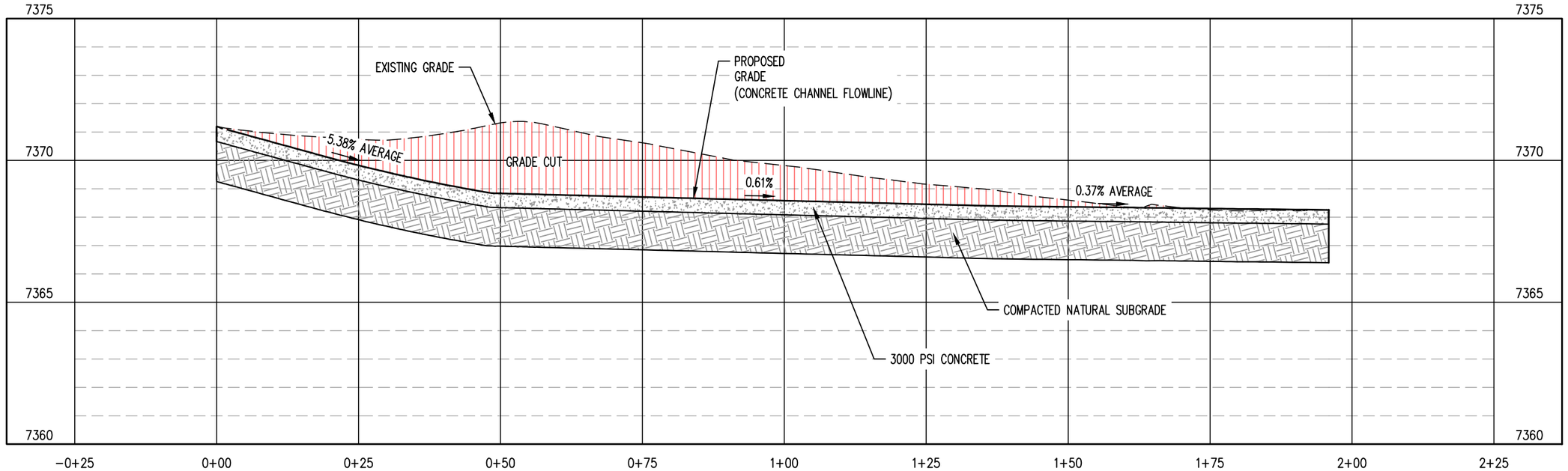
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: GRADING SECTION C-C

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C4.4

0 20 40 FEET



CONCRETE CHANNEL FLOWLINE PROFILE

HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

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ADAM SOMMERS
38169
2/13/26
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EL PASO COUNTY, COLORADO

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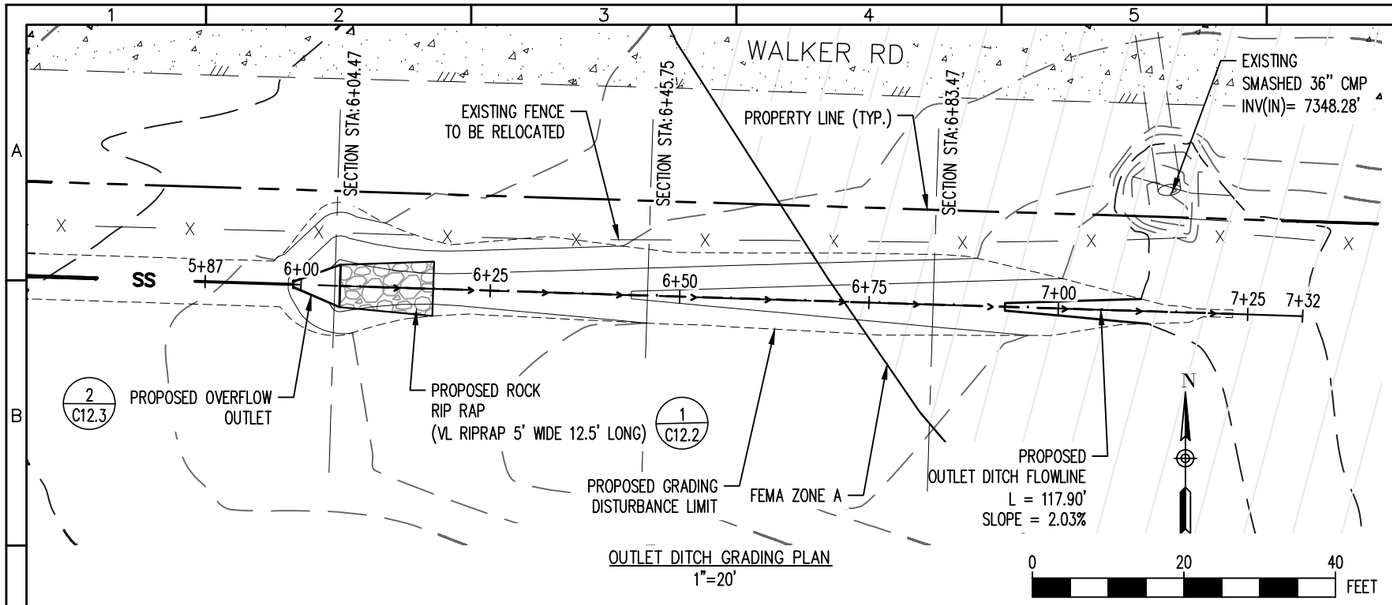
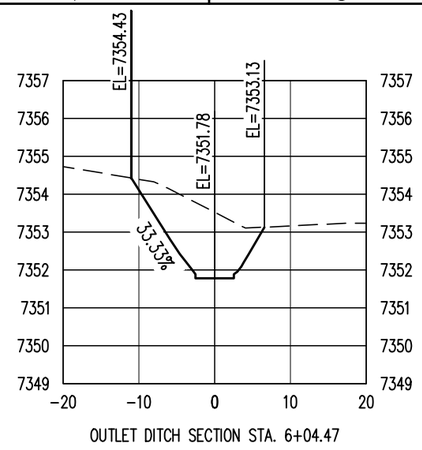
(303) 477-5915

SHEET TITLE: CONCRETE CHANNEL FLOWLINE PROFILE

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C4.5

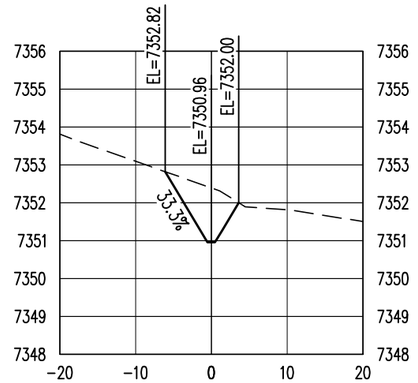


OUTLET DITCH GRADING PLAN
1"=20'



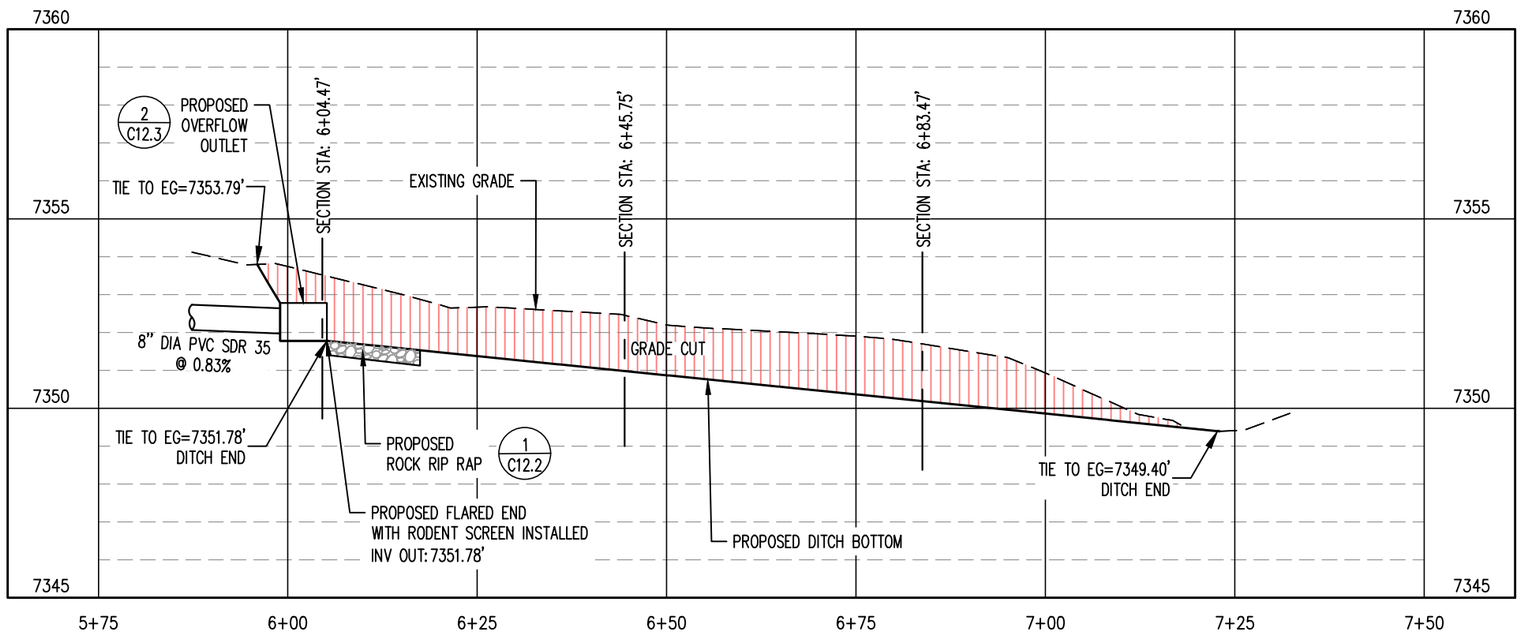
OUTLET DITCH SECTION STA. 6+04.47

HORZ. SCALE:1"=20'
VERT. SCALE:1"=4'

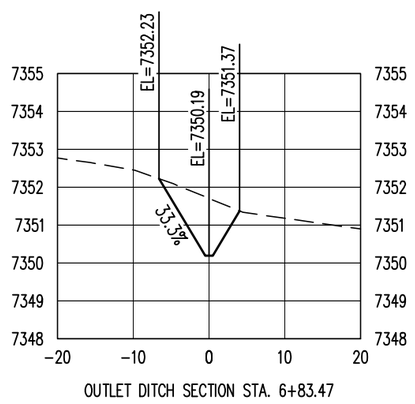


OUTLET DITCH SECTION STA. 6+45.75

HORZ. SCALE:1"=20'
VERT. SCALE:1"=4'

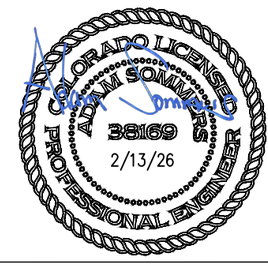


OUTLET DITCH PROFILE
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



OUTLET DITCH SECTION STA. 6+83.47

HORZ. SCALE:1"=20'
VERT. SCALE:1"=4'



OUTLET DITCH PLAN, PROFILE & SECTIONS
1"=20'

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EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: OUTLET DITCH PLAN, PROFILE & SECTIONS

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C4.6

N
0 100 200 FEET

N0° 25' 26.84"E
L=1532.38

PROPOSED CONCRETE WASHOUT

EXISTING POND (APPROVED WITH MOUNTAIN VIEW ACADEMY PROJECT)

PROPOSED STABILIZED CONSTRUCTION ENTRANCE

PROPOSED WWTP
TOP OF LID = 7369.68'

LIMITS OF CONSTRUCTION

INSTALL SILT FENCE

PREVIOUSLY DISTURBED ~3 ACRE STOCKPILE AREA TO BE REGRADED TO PRE-STOCKPILE CONDITIONS AND PERMANENTLY STABILIZED TO ACHIEVE MINIMUM 70% VEGETATIVE COVER SEE CONSTRUCTION DRAWINGS (GEC PLAN).

L=410.30
S88° 12' 10.15"E

EXISTING POND #1

EXISTING POND #2

FEMA ZONE A

WALKER RD

L=300.00
S88° 12' 20.32"E

L=135.99
N20° 12' 19.32"W

L=189.99
S10° 13' 39.32"E

L=199.97
S1° 45' 23.68"W

L=329.91
S12° 45' 13.68"W

L=139.99
S1° 46' 10.68"W

Changed the note as per request.

Pond reclamation shown on ECP as per request.

COLORADO LICENSED
ADAM SOMMERS
38169
PROFESSIONAL ENGINEER
2/13/26

EROSION CONTROL PLAN I
1:100

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN CORPORATION WWTP
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: EROSION CONTROL PLAN I

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1:100	C5.1

PROPOSED EFFLUENT MANHOLE

EXISTING GRAVEL DRIVEWAY ACCESS

3 C11.2 PROPOSED CONCRETE WASHOUT

EXISTING 18" CMP L=410.30 S88° 12' 10.15

0 40 80 FEET

PREVIOUSLY DISTURBED ~3 ACRE STOCKPILE AREA TO BE REGRADED TO PRE-STOCKPILE CONDITIONS AND PERMANENTLY STABILIZED TO ACHIEVE MINIMUM 70% VEGETATIVE COVER SEE CONSTRUCTION DRAWINGS (GEC PLAN).

EXISTING CONCRETE DRIVEWAY ACCESS

LIMITS OF CONSTRUCTION

PROPOSED WWTP GRADING DISTURBANCE LIMITS AREA = 10,650.71 SQ.FT. LF = 5525.75

SILT FENCE LF = 585.00 2 C11.1

PROPOSED EFFLUENT LINE

1 C11.1 PROPOSED STABILIZED CONSTRUCTION ENTRANCE

EXISTING FENCE TO BE RELOCATED

PROPERTY LINE

PROPOSED FLARED END OUTLET STRUCTURE WITH RODENT SCREEN INSTALLED

PROPOSED TREATMENT BUILDING TOP OF LID = 7369.68'

EXISTING POND #1

FEMA ZONE A

Pond reclamation shown on ECP as per request.

PROPOSED ROCK RIP RAP

WALKER RD

PROPOSED TRANSFORMER PAD GRADING DISTURBANCE LIMITS AREA = 61.00 SQ.FT. LF = 31.00

SILT FENCE INSTALLED ON PAVED IMPERVIOUS SURFACE LF = 334.00 2A C11.1

PROPOSED OUTLET DITCH GRADING DISTURBANCE LIMITS AREA = 1184.10 SQ.FT. LF = 267.20

PROPOSED DUMPSTER PAD GRADING DISTURBANCE LIMITS AREA = 394.00 SQ.FT. LF = 83.00

EXISTING POND #2

4 C11.2 EROSION LOG DITCH INSTALLATION

EXISTING SMASHED 36" CMP

COLORADO LICENSED ADAM SOMMERS 38169 2/13/26 PROFESSIONAL ENGINEER

EROSION CONTROL PLAN II
1"=40'

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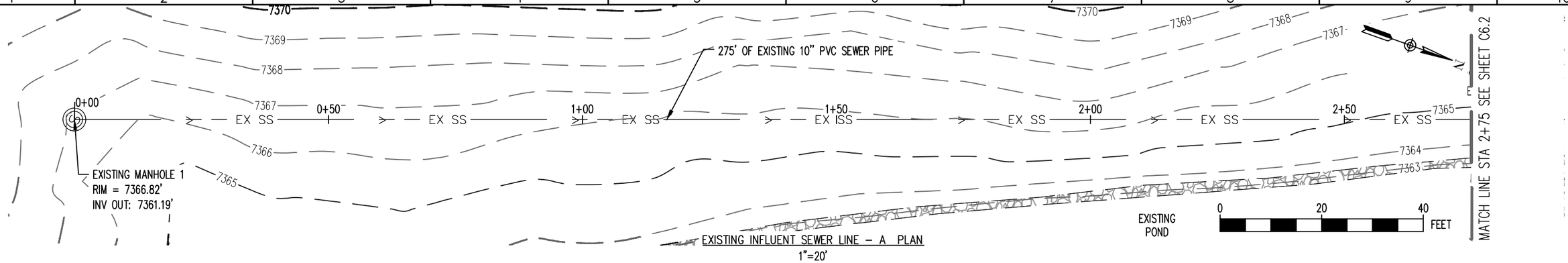
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

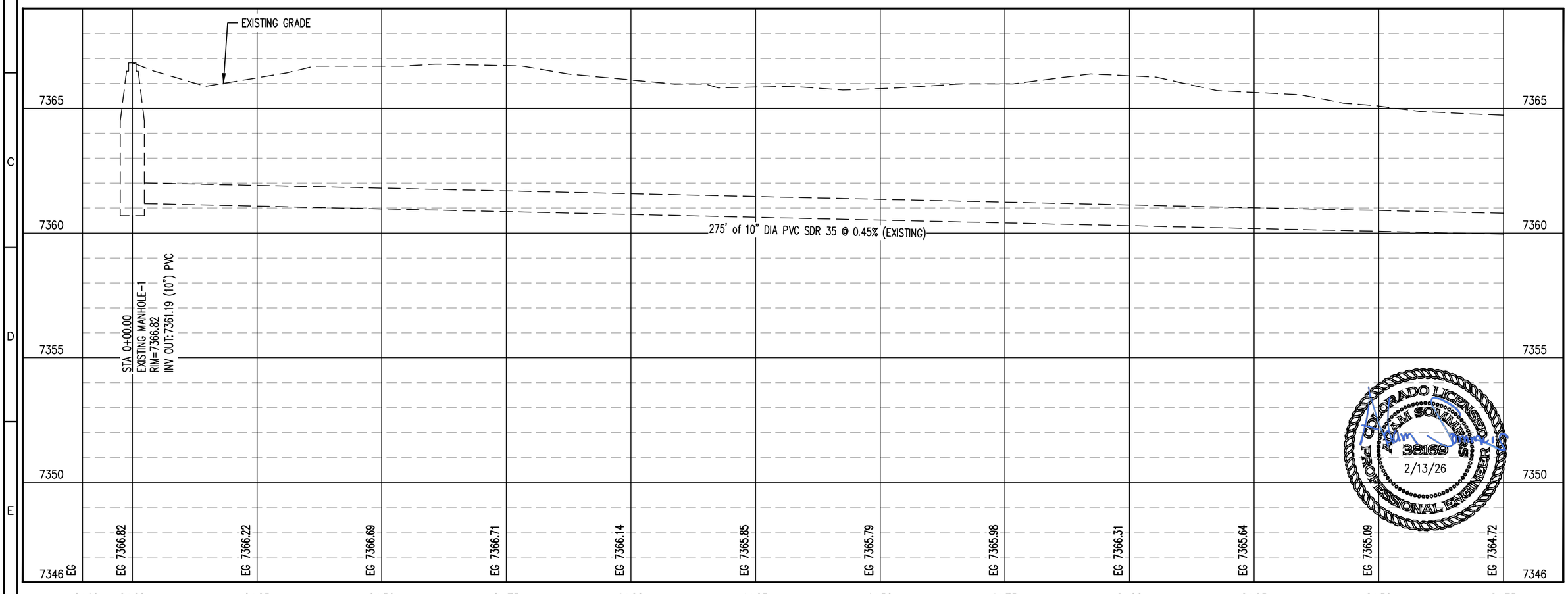
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: EROSION CONTROL PLAN II

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=40'	C5.2



EXISTING INFLUENT SEWER LINE – A PLAN
1"=20'



EXISTING AND PROPOSED 10" SEWER INFLUENT LINE PROFILE
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

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ADAM SOMMERS
38169
PROFESSIONAL ENGINEER
2/13/26

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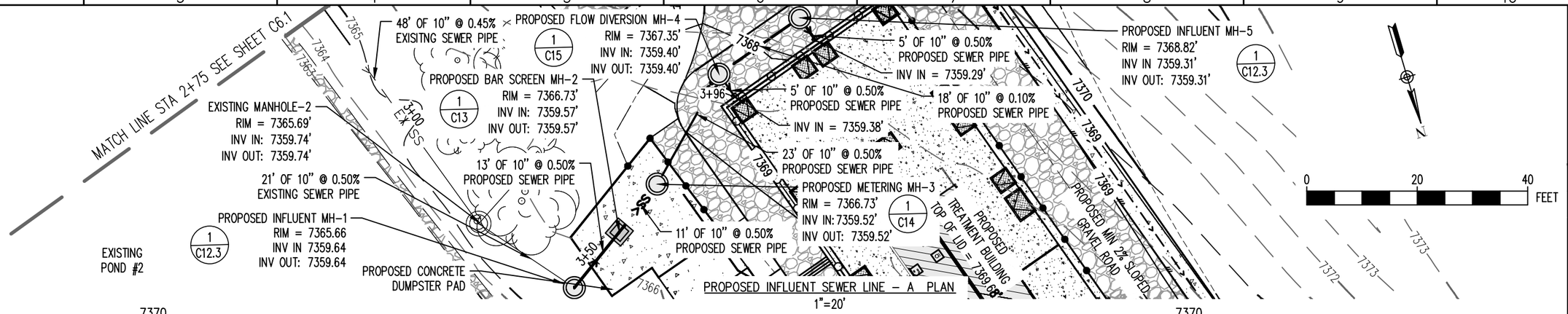
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

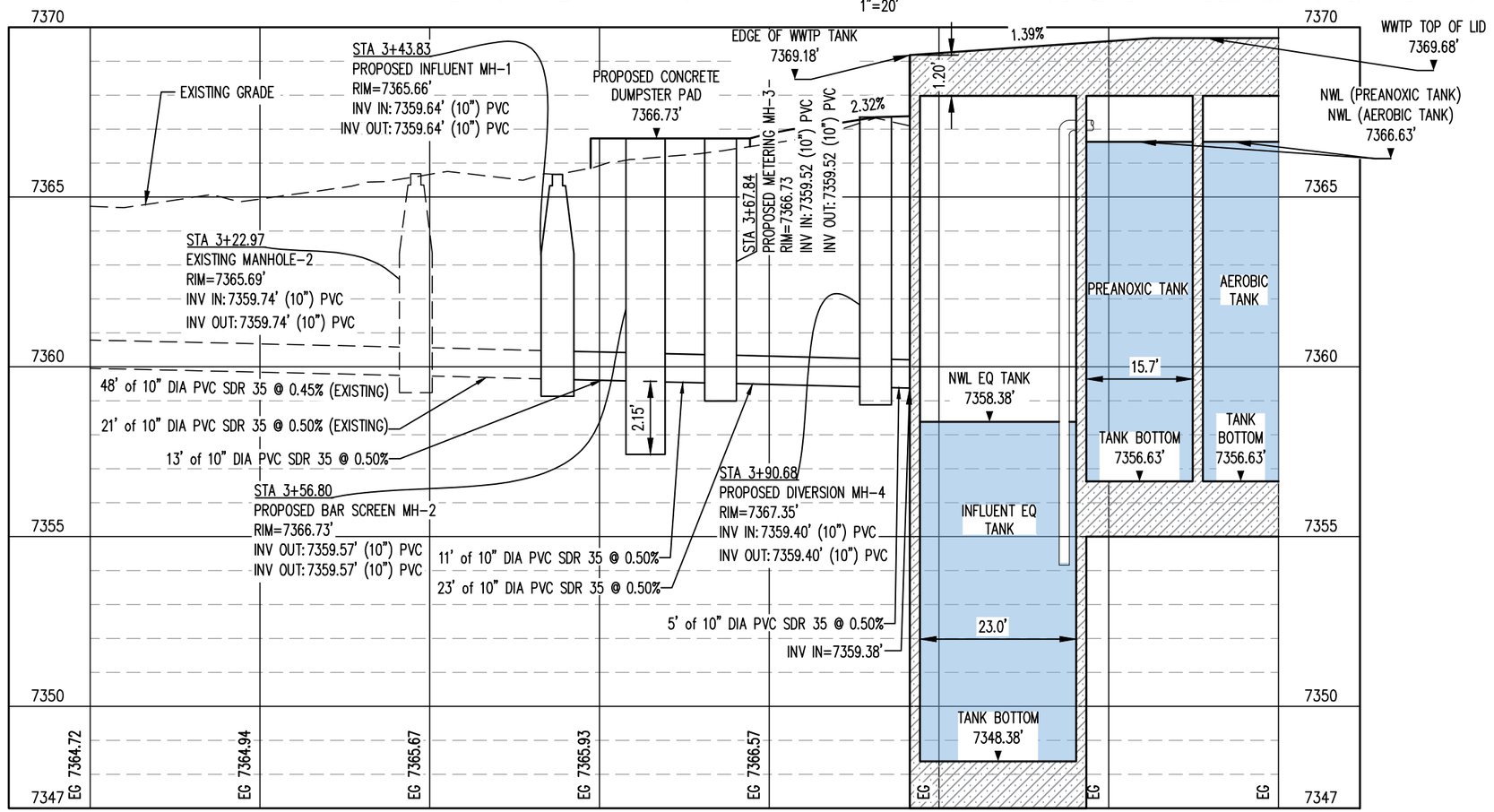
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
EX. AND PROPOSED 10" SEWER INFLUENT LINE STA 0+00 TO STA 2+75

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C6.1



PROPOSED INFLUENT SEWER LINE – A PLAN
1"=20'



EXISTING AND PROPOSED 10" SEWER INFLUENT LINE PROFILE
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

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ADAM SOMMERS
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2/13/26
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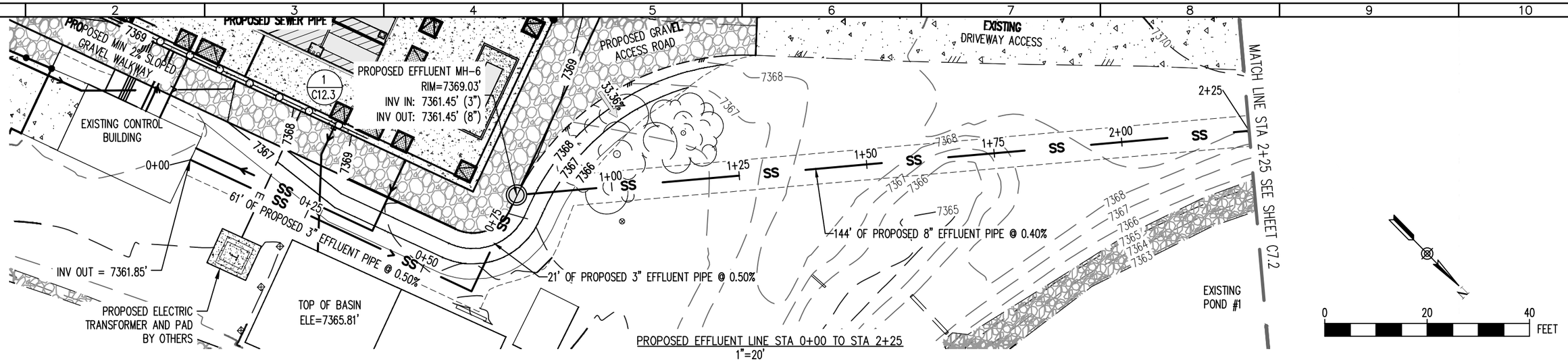
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

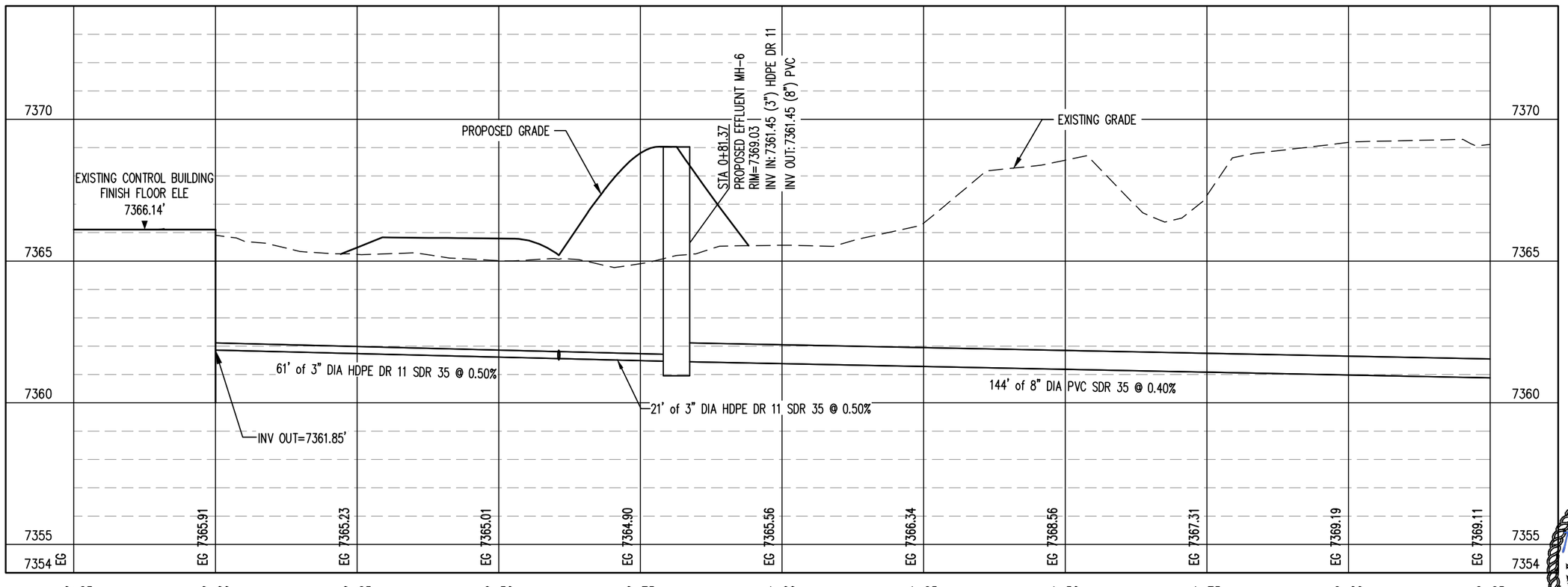
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
EX. AND PROPOSED 10" SEWER
INFLUENT LINE STA 2+75 TO END

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C6.2



PROPOSED EFFLUENT LINE STA 0+00 TO STA 2+25
1"=20'



PROPOSED SEWER EFFLUENT LINE PROFILE
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

COLORADO LICENSED
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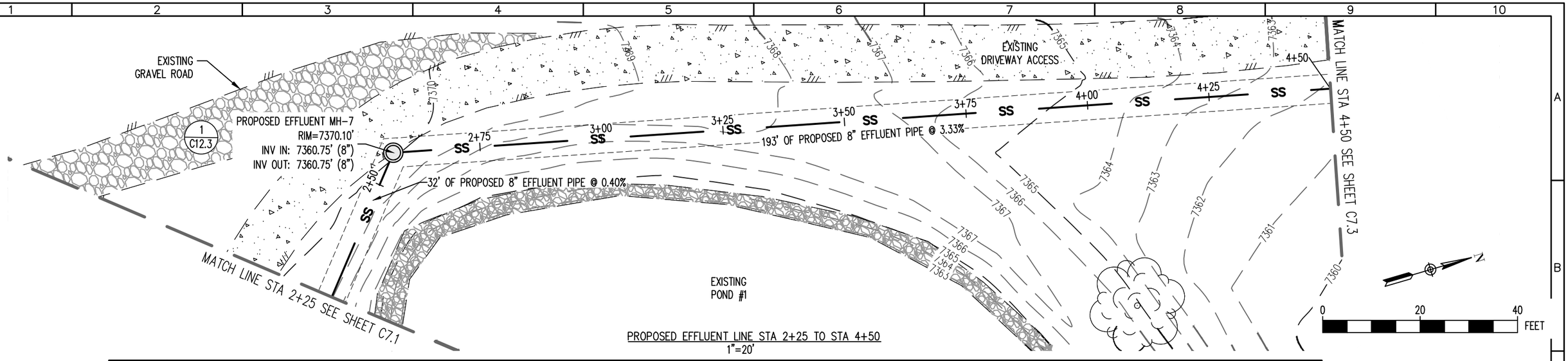
AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: COLLECTION & DISTRIBUTION SYSTEMS CAPITAL IMPROVEMENT PLAN

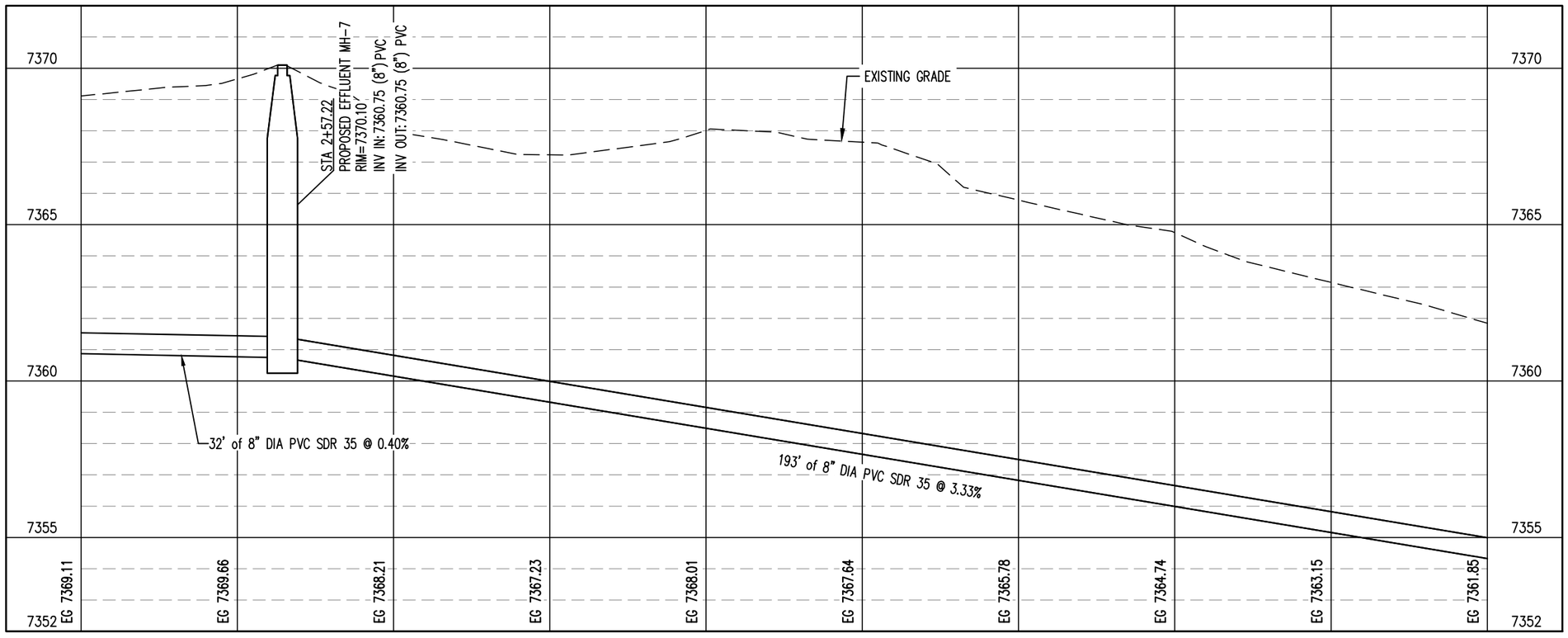
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROPOSED EFFLUENT LINE STA 0+00 TO STA 2+25

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C7.1



PROPOSED EFFLUENT LINE STA 2+25 TO STA 4+50
1"=20'



PROPOSED SEWER EFFLUENT LINE PROFILE
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

COLORADO LICENSED
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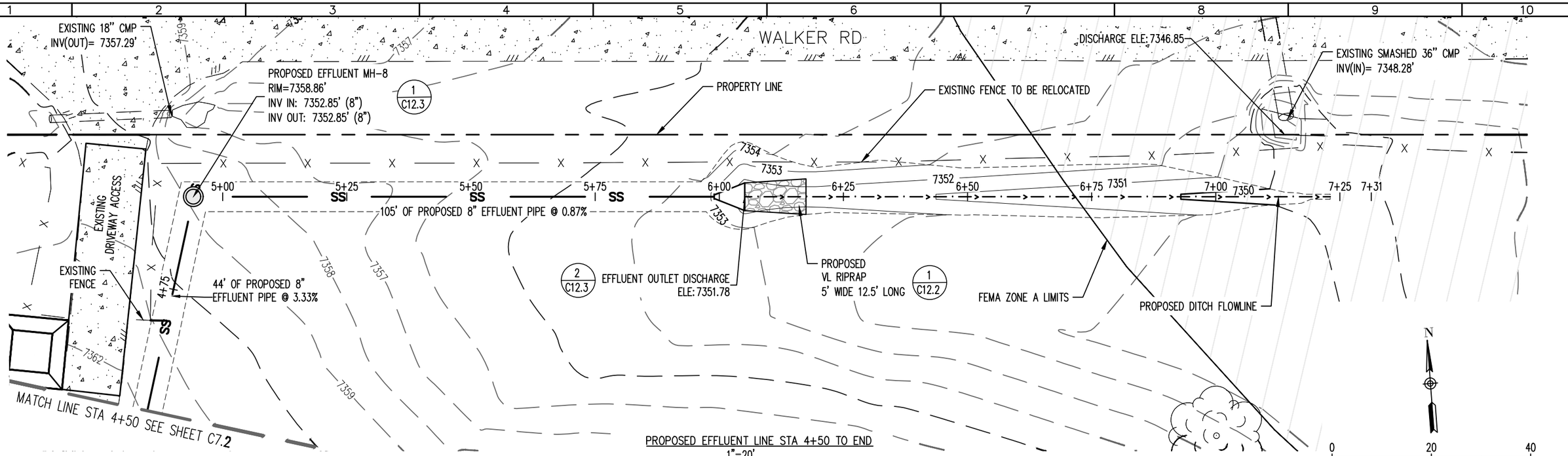
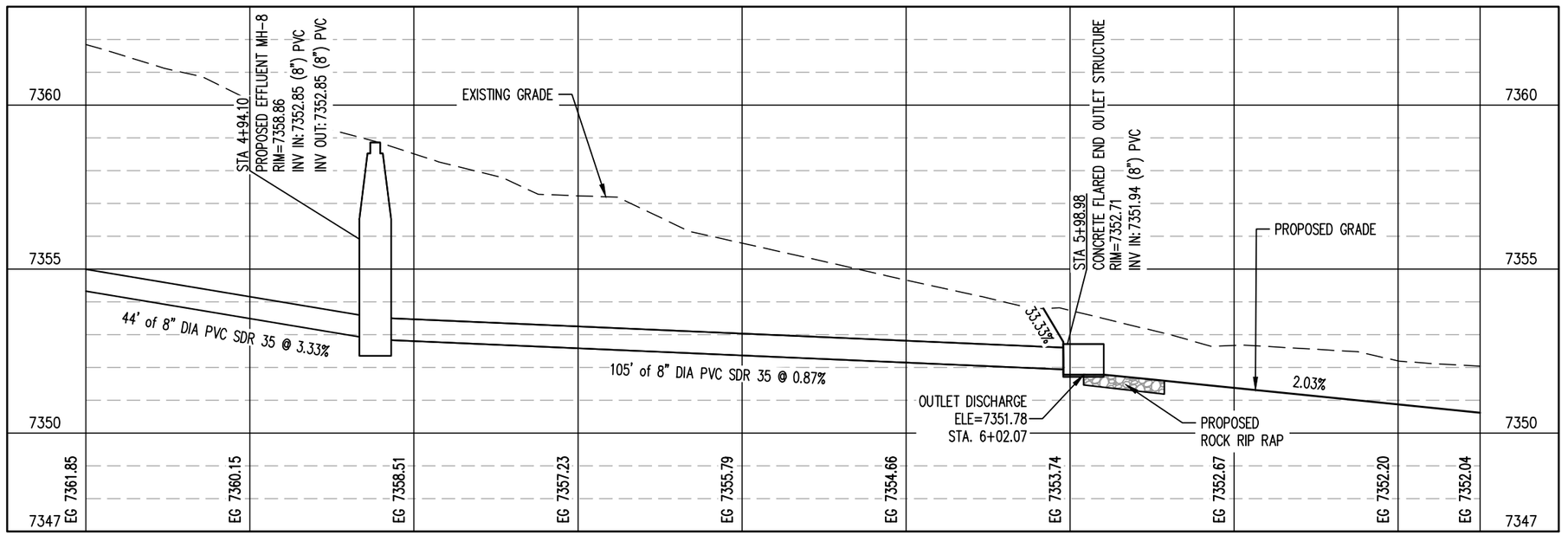
PROJECT: COLLECTION & DISTRIBUTION SYSTEMS CAPITAL IMPROVEMENT PLAN

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROPOSED EFFLUENT LINE STA 2+25 TO STA 4+50

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C7.2





PROPOSED SEWER EFFLUENT LINE PROFILE
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

COLORADO LICENSED
ADAM SOMMERS
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2/13/26
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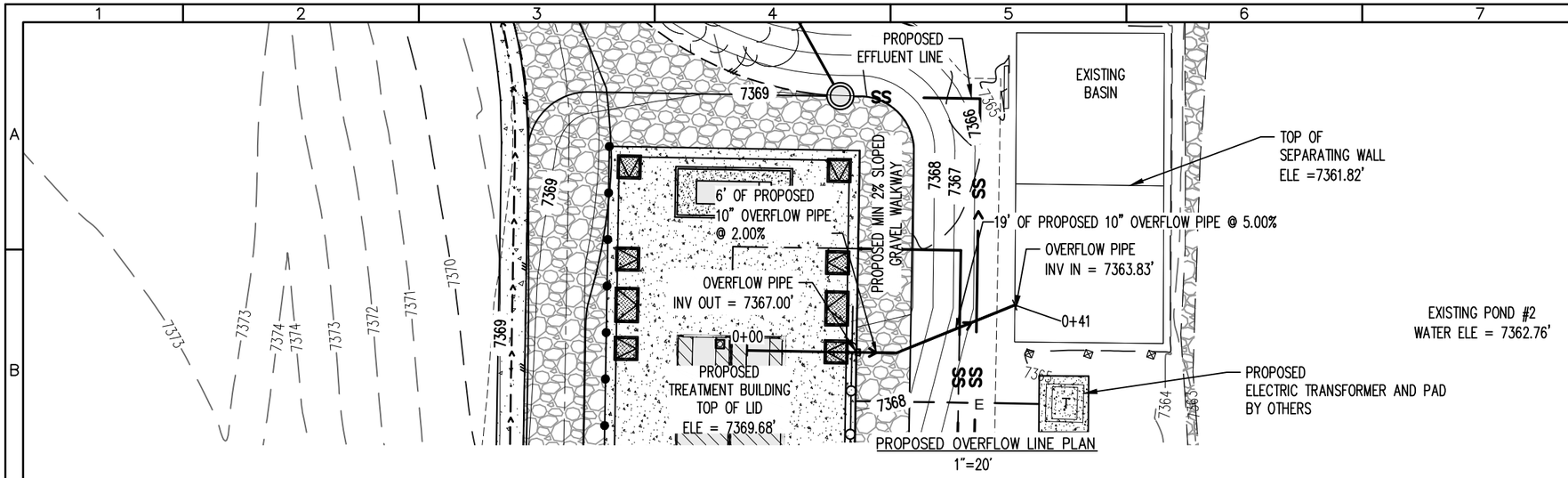
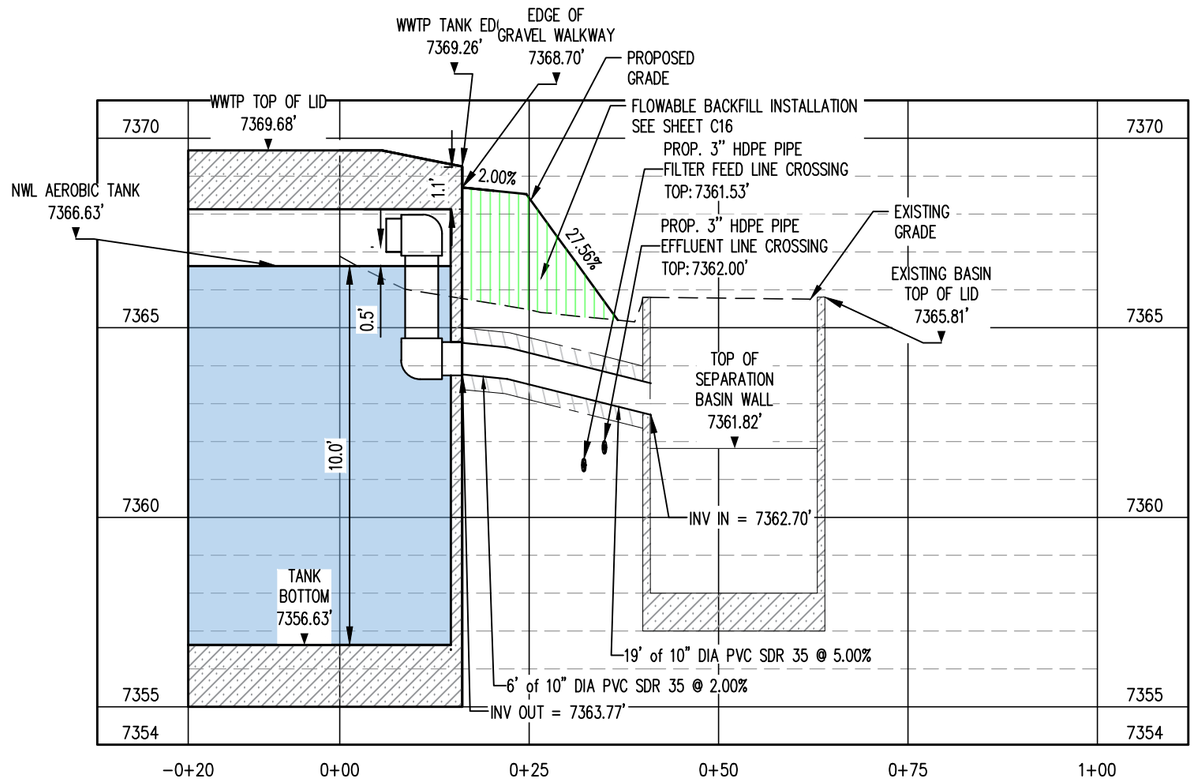
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROPOSED EFFLUENT LINE STA 4+50 TO END

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C7.3





PROPOSED 10" OVERFLOW LINE PROFILE
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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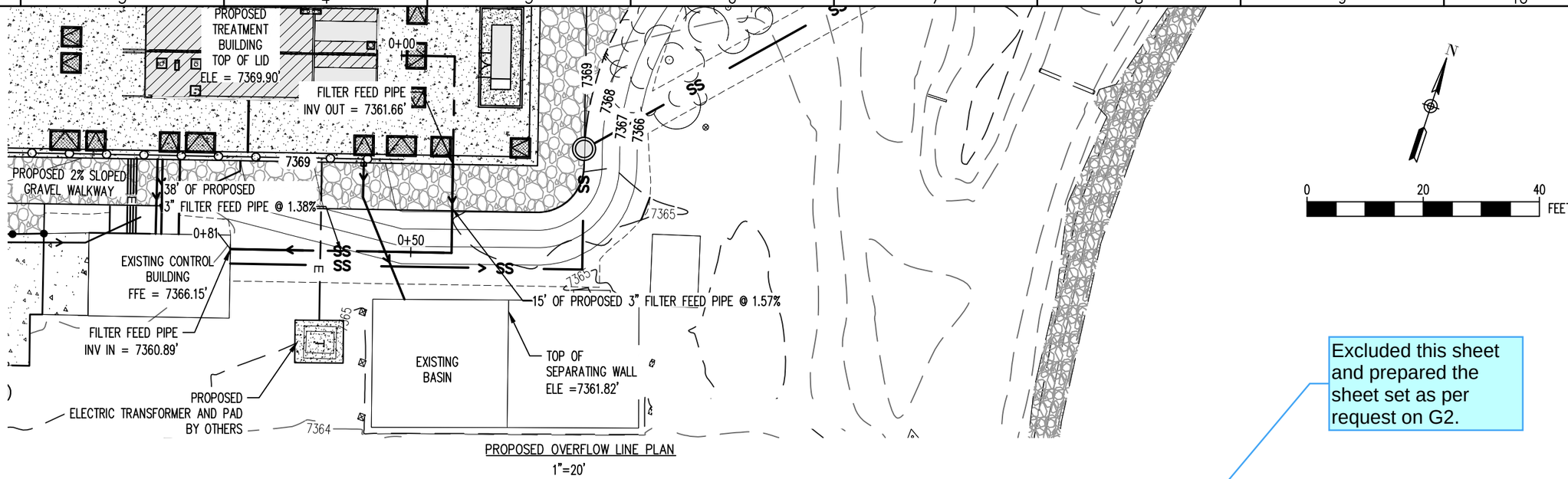
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
PROPOSED 10" OVERFLOW LINE PLAN & PROFILE

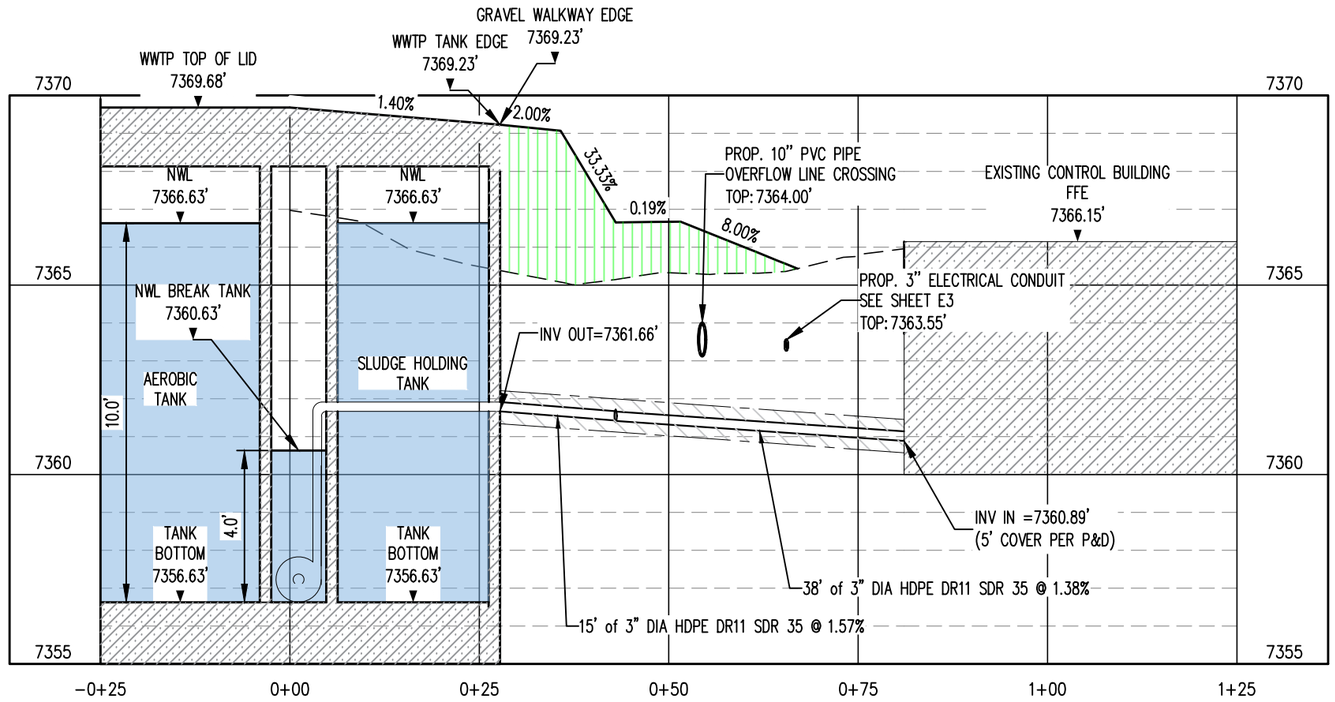
PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C8



PROPOSED OVERFLOW LINE PLAN

1"=20'

Excluded this sheet and prepared the sheet set as per request on G2.



PROPOSED 3" FILTER FEED PUMPS LINE PROFILE

HORZ. SCALE: 1" = 20'

VERT. SCALE: 1" = 4'

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ADAM SOMMERS
38169
2/13/26
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3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROPOSED 3" FILTER FEED PUMPS LINE

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=20'	C9

BIOSOLIDS REMOVAL REQUIREMENTS:

APPLICABLE REGULATIONS:
ALL OF THE WORK REFORMED BY CONTRACTOR SHALL COMPLY WITH APPLICABLE LAWS, RULES, REGULATIONS, AND CODES OF UNITED STATES AND THE STATE OF COLORADO AND WITH THE ORDINANCES, RULES AND REGULATIONS.
REGULATORY AGENCIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. U.S. – ENVIRONMENTAL PROTECTION AGENCY (EPA)
2. STATE OF COLORADO – DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE)
3. OCCUPATIONAL SAFETY AND HEALTH AGENCY (OSHA)
4. EL PASO COUNTY

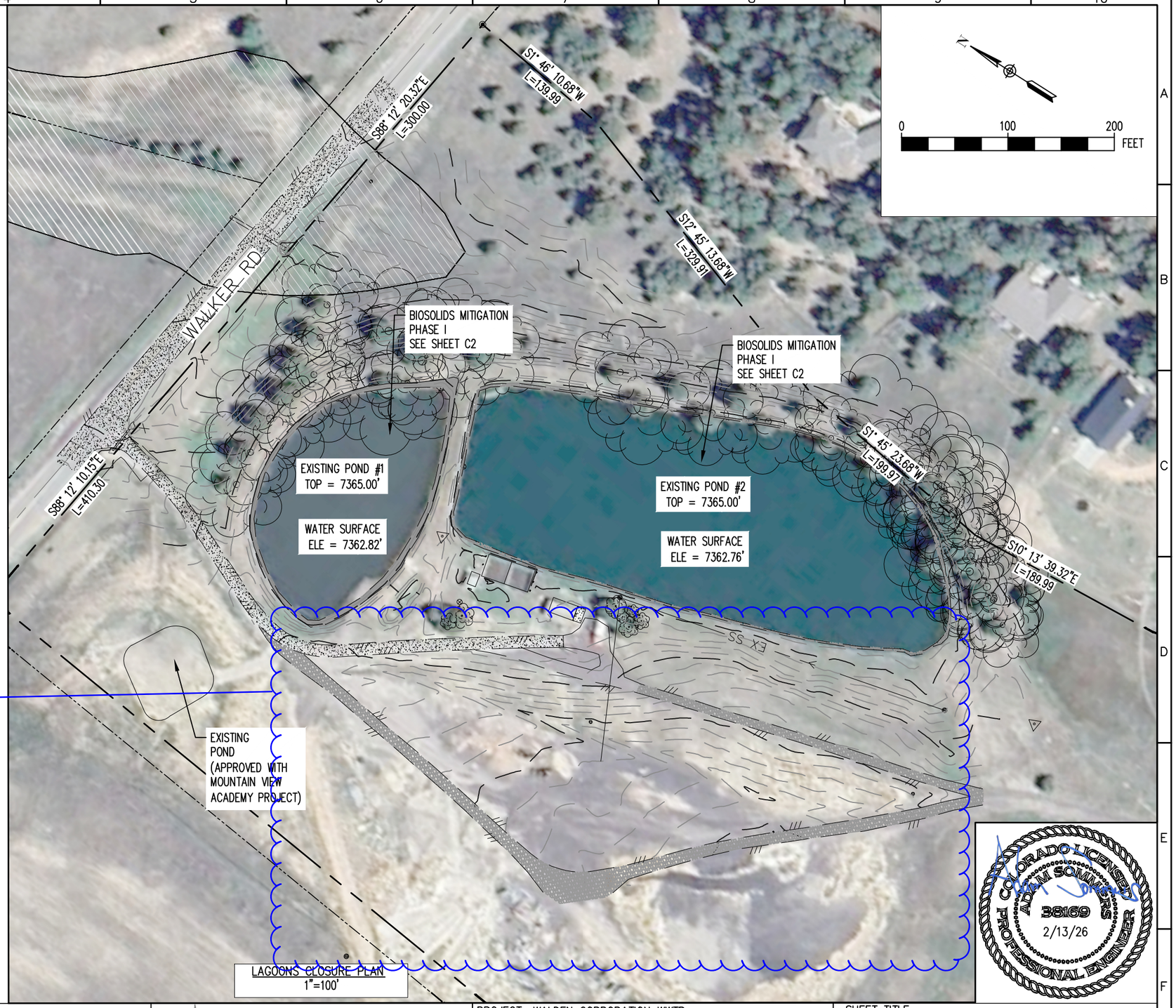
BIOSOLIDS MANAGEMENT AND DISPOSAL:
BIOSOLIDS MUST BE COMPLETELY REMOVED FROM THE DECOMMISSIONED LAGOONS AND MANAGED IN ACCORDANCE WITH FEDERAL REQUIREMENTS IN 40 CFR 503 AND COLORADO BIOSOLIDS REGULATION 5 CCR 1002-64 (REGULATION 64). DISPOSAL OPTIONS FOR REMOVED BIOSOLIDS MUST ALSO CONFORM WITH FEDERAL REQUIREMENTS 40 CFR 503, 40 CFR 258, AND THE REQUIREMENTS OF THE COLORADO REGULATIONS PERTAINING THE SOLID WASTE SITES AND FACILITIES 6 CCR 1007-2, AS APPLICABLE. CONTRACTOR SHALL PERFORM AND PASS TENORM AND PFAS TESTING PRIOR TO HAULING BIOSOLIDS OFFSITE.

SOLID WASTE MANAGEMENT AND DISPOSAL:
WASTE MATERIALS AT A DECOMMISSIONED LAGOONS (E.G., CONCRETE, SITE PIPING, ETC.) MUST BE PROPERLY MANAGED IN ACCORDANCE WITH REGULATIONS PERTAINING TO THE SOLID WASTE SITES AND FACILITIES 6 CCR 1007-2 (SOLID WASTE REGULATIONS) AND THE SOLID WASTES DISPOSAL SITES AND FACILITIES ACT, TITLE 30, ARTICLE 20, PART 1, COLORADO REVISED STATUES (CRS), AS AMENDED.

BIOSOLIDS DISPOSAL REQUIREMENTS:
OWNER TO REMOVE ALL FLUID FROM PONDS AND LEGALLY DISPOSE OF LIQUID BY PROCESSING IT THROUGH THE EXISTING LAGOON SYSTEM. THE REMAINING BIOSOLIDS SHALL BE DEWATERED ON SITE OR HAULED OFFSITE BY THE CONTRACTOR. IF LIQUID IS HAULED OFFSITE, ONE CUBIC YARD IS EQUAL TO 202 GALLONS. BIOSOLIDS CAKE TO BE HAULED OFFSITE. ESTIMATED VOLUME OF BIOSOLIDS IS 2000 CUBIC YARDS.
PRIOR TO COMPLETION, CONTRACTOR TO PROVIDE OWNER RECORDS OF ALL THE PERMITS, TESTING RESULTS, AND CONSTRUCTION LOGS. CONTRACTOR TO CERTIFY THAT PROJECT WAS COMPLETED AS SPECIFIED AND CONFORMS TO APPLICABLE LAWS, RULES, AND REGULATIONS.

Grading provided as per request.

Providing grading plan for this area



LAGOONS CLOSURE PLAN
1"=100'

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ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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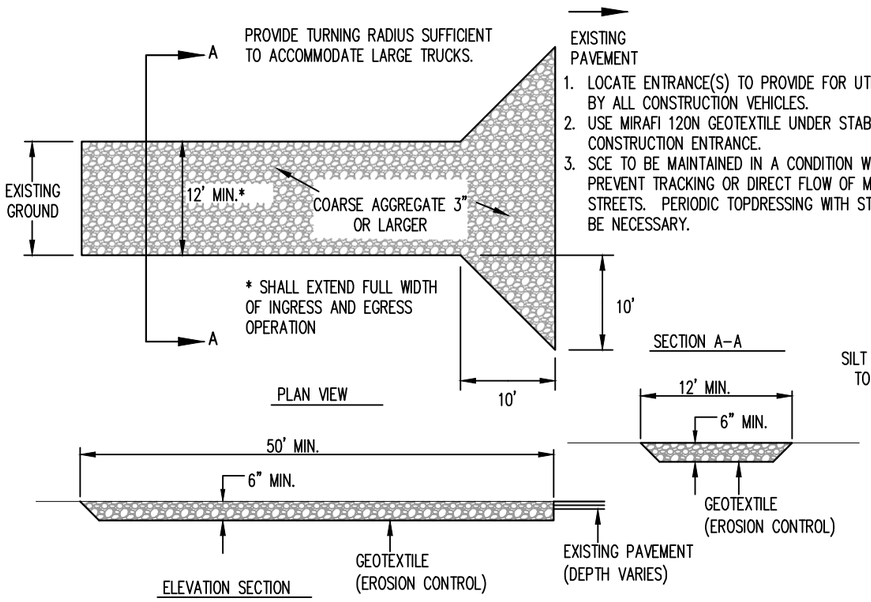
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: LAGOONS CLOSURE PLAN

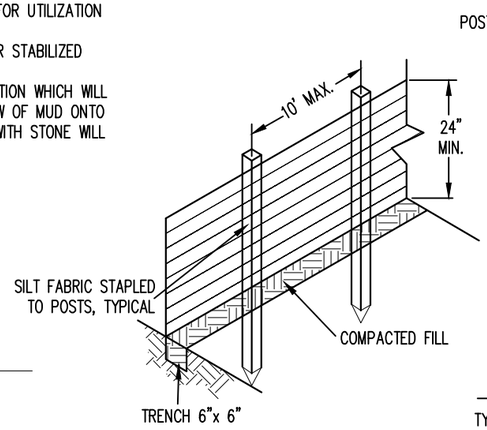
PROJECT NUMBER:	SCALE:	SHEET:
#3774	1"=100'	C10

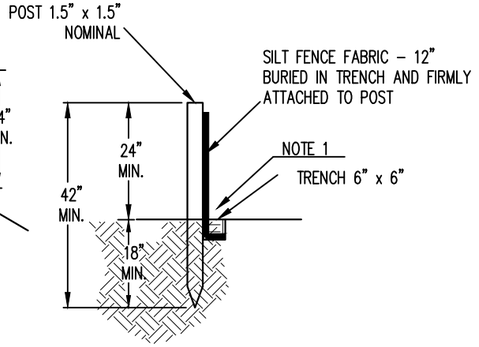


EXISTING PAVEMENT

1. LOCATE ENTRANCE(S) TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
2. USE MIRAFI 120N GEOTEXTILE UNDER STABILIZED CONSTRUCTION ENTRANCE.
3. SCE TO BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.

STABILIZED CONSTRUCTION ENTRANCE (1 / C11.1)
NTS





SILT FENCE (2 / C11.1)
NTS

EROSION CONTROL DETAIL NOTES:

1. CONTRACTOR TO REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 25% OF PROTECTION FEATURE HEIGHT. CONTRACTOR SHALL PERFORM CONTINUOUS INSPECTION FOR PROPER FUNCTION.
2. SILT FENCE POSTS SHALL BE METAL OR WOOD WITH A MINIMUM LENGTH OF 42 INCHES. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION OF 1.5 INCHES. SILT FENCE GEOTEXTILE SHALL BE ATTACHED TO POSTS WITH THREE OR MORE STAPLES PER POST.
3. SILT FENCE SHALL BE INSTALLED IN LOCATIONS SPECIFIED IN THE PLANS PRIOR TO ANY GRUBBING OR GRADING ACTIVITY. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT ACCUMULATES 25% OF THE EXPOSED GEOTEXTILE HEIGHT AND SHALL BE DISPOSED OF.
4. EROSION LOGS: EROSION LOGS SHALL BE CURLED ASPEN WOOD EXCELSIOR WITH A CONSISTENT WIDTH OF FIBERS EVENLY DISTRIBUTED THROUGHOUT THE LOG. THE CASING SHALL BE SEAMLESS, PHOTODEGRADABLE TUBE NETTING AND SHALL HAVE MINIMUM DIMENSIONS AS SHOWN BELOW. THE CURLED ASPEN WOOD EXCELSIOR SHALL BE FUNGUS FREE, RESIN FREE AND SHALL BE FREE OF GROWTH OR GERMINATION INHIBITING SUBSTANCES. STAKES TO SECURE EROSION LOGS SHALL CONSIST OF PINEWOOD OR HARDWOOD.
5. THE CONTRACTOR SHALL MAINTAIN THE EROSION LOGS DURING CONSTRUCTION TO PREVENT SEDIMENT FROM PASSING OVER OR UNDER THE LOGS OR FROM SEDIMENT ACCUMULATION GREATER THAN 25% OF THE ORIGINAL EXPOSED HEIGHT OF EACH EROSION LOG. STAKES SHALL BE EMBEDDED A MINIMUM OF DEPTH OF 4 INCHES.

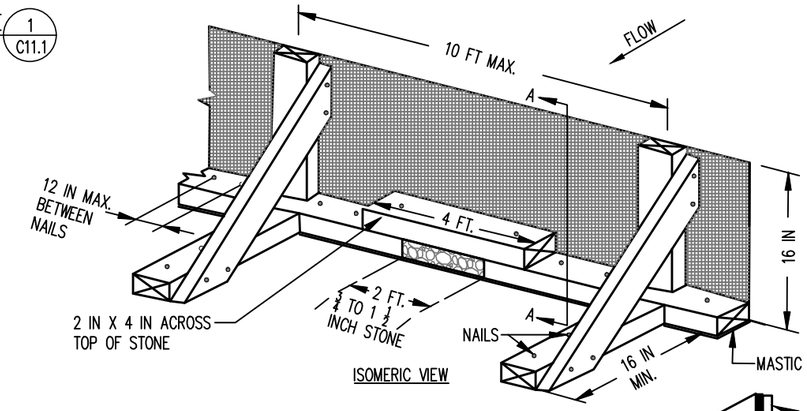
EROSION CONTROL SPECIFICATIONS:

NOMINAL DIMENSIONS OF EROSION LOGS:

DIAMETER	LENGTH	WEIGHT	STAKE DIMENSIONS
12 INCH	7–10 FEET	2.5 LBS/FOOT	1.5X1.5X24 INCHES

GEOTEXTILE FOR SILT FENCE:

PROPERTY	SPECIFICATION	TEST METHOD
GRAB STRENGTH, N (LBS)	400 (90)	ASTM D 4632
ELONGATION, % MIN	50 MAXIMUM	ASTM D 4632
APPARENT OPENING SIZE	0.84 MAXIMUM	ASTM D 4751
ULTRAVIOLET DEGRADATION	70% STRENGTH RETAINED (AT 500 HOURS)	ASTM D 4355
PERMEABILITY S-1	0.01 MINIMUM	ASTM D 4491



SILT FENCE ON PAVEMENT (2A / C11.1)
NTS

CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH X 4 INCH LUMBER.
2. USE WOVEN SLIT FILM GEOTEXTILE.
3. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS STANDARDS.
4. SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
5. PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
6. KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2X4.
7. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATACH LATHE.
8. PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE AND 2X4 TO PREVENT SEDIMENT-LADEN WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
9. SECURE BORADS TO PAVEMENT WITH 40D 5 INCH MINIMUM LENGTH NAILS.
10. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.

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ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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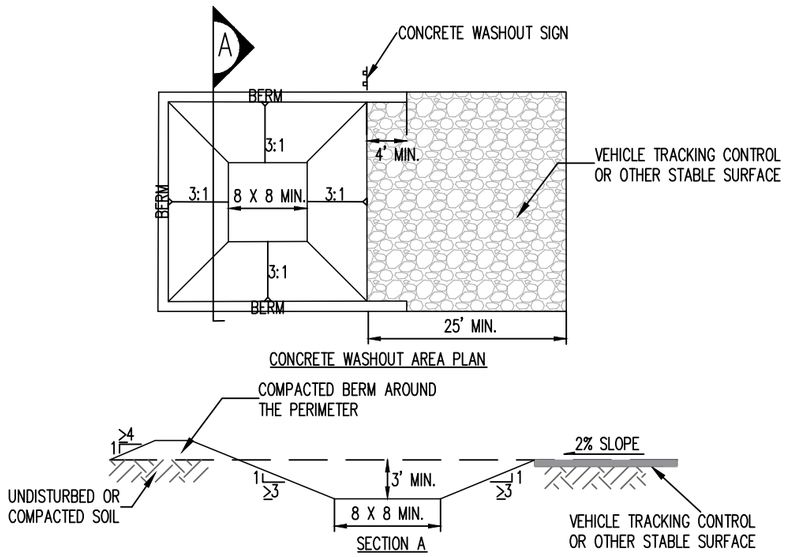
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: EROSION CONTROL DETAILS I

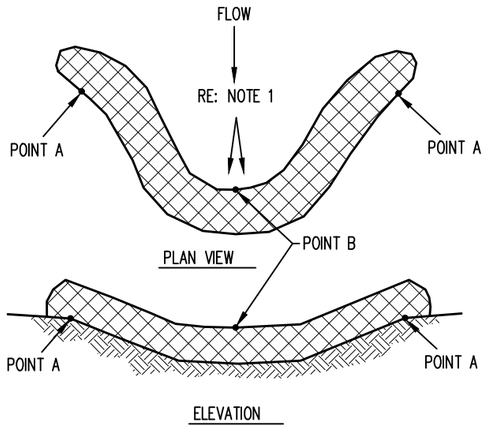
PROJECT NUMBER:	SCALE:	SHEET:
#3774	N.T.S.	C11.1



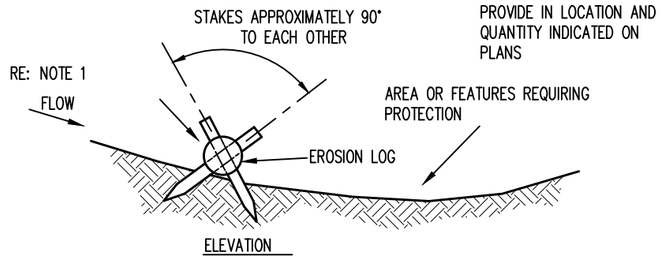
CONCRETE WASHOUT AREA NOTES:

1. SEE PLAN VIEW FOR CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SOURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

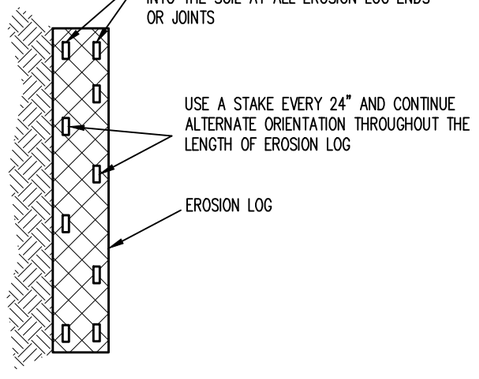
CONCRETE WASHOUT DETAIL 3 C11.2
NTS



EROSION LOG DITCH INSTALLATION 4 C11.2
NTS



TYPICAL EROSION LOG APPLICATION 4B C11.2
NTS



TYPICAL STAKE INSTALLATION 4A C11.2
NTS

EL PASO LOW GROW SEED MIX AND MULCH

SEED MIX FOR THE FOLLOWING APPLIED BY DRILLING AT 5.25 LB/0.25 ACRES (10,890 SQUARE FEET) OR BY BROADCASTING AT 10.50LB/0.25 ACRES:

27 %	WESTERN WHEATGRASS
18 %	BLUE GRAMA
15 %	BUFFALO GRASS
13 %	SIDEOATS GRAMA
12 %	SHEEP FESCUE
10 %	GREEN NEEDLEGRASS
5 %	SAND DROPSEED

NOTE: PROVIDE MULCH AND TACKIFIER TO MEET GERMINATION REQUIREMENTS.

SEED MIX AND MULCH 4 C11.2
NTS

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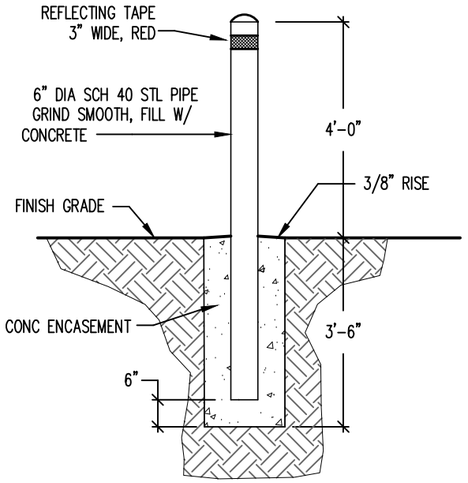
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: EROSION CONTROL DETAILS II

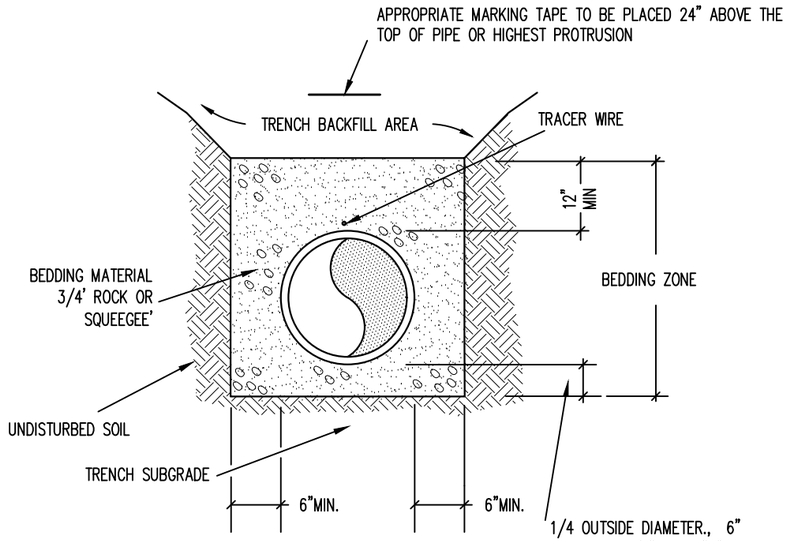
PROJECT NUMBER:	SCALE:	SHEET:
#3774	N.T.S.	C11.2



NOTES:

1. PROVIDE SUITABLE SUBGRADE FOR STABLE INSTALLATION.
2. ENCASE BOLLARD IN A MINIMUM OF 18" DIAMETER OF CONCRETE TO 3'-6" BELOW GRADE.
3. FILL PIPE WITH CONCRETE AND PROVIDE CLEAN CAP FOR TOP OF PIPE.
4. CONCRETE: CONCRETE MIX SHALL YIELD A COMPRESSIVE STRENGTH OF NOT LESS THAN 4,000 PSI AFTER 28 DAYS. MINIMUM UNCOVERED CURING TIME TO BE 36 HOURS.
5. PROVIDE 7' LONG STEEL PIPE.
6. BOLLARD TO BE COATED WITH PRIMER PRIOR TO INSTALLATION.
7. PAINT OUTSIDE OF PIPE WITH RUST-RESISTANT SAFETY YELLOW PAINT.

BOLLARD 1 / C12.1
NTS



NOTES:

1. PIPE SHALL BE BEDDED FROM 6" BELOW THE BOTTOM OF THE PIPE TO 12" ABOVE THE TOP OF THE PIPE.
2. SHOULD THE TRENCH BE EXCAVATED WIDER THAN ALLOWED, A CONCRETE CRADLE SHALL BE PLACED WITH 2500 P.S.I. CONCRETE FROM TRENCH BOTTOM TO PIPE SPRINGLINE.
3. COMPACTION SHALL BE AS FOLLOWS: PIPE ZONE BEDDING 6" UNDER AND 12" OVER PIPE WILL REQUIRE 90% S.P.D. TRENCH ZONE ABOVE BEDDING MATERIALS, FULL TRENCH SECTION IN ROADWAY OR STREET R.O.W. LIMITS WILL REQUIRE 95% S.P.D. TRENCH ZONE ABOVE BEDDING MATERIALS, OUTSIDE OF STREET R.O.W. WILL REQUIRE 90% S.P.D. LIFTS SHALL NOT EXCEED 6". COMPACTION TESTING SHALL BE EVERY FOOT OR PER EL PASO COUNTY REQUIREMENTS.
4. USE ONLY BACKFILL FOR TRENCHES WHICH IS FREE FROM ROCKS, LARGE ROOTS, OTHER VEGETATION OR ORGANIC MATTER, AND FROZEN MATERIAL. NO ROCKS GREATER THAN TWELVE (12) INCHES IN DIAMETER SHALL BE ALLOWED.

PIPE INSTALLATION DETAIL 2 / C12.1
NTS

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SHEET TITLE: CIVIL DETAILS I

PROJECT NUMBER:	SCALE:	SHEET:
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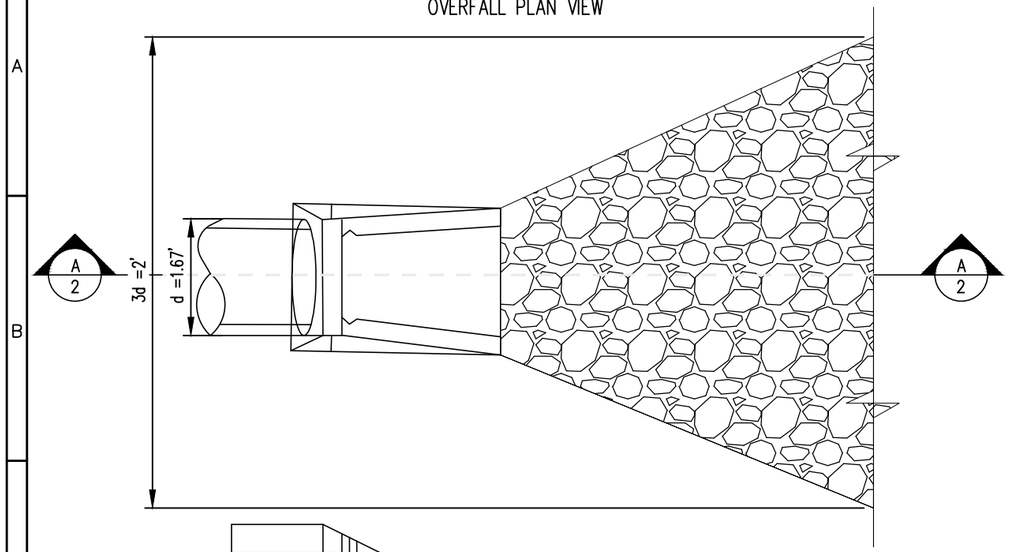
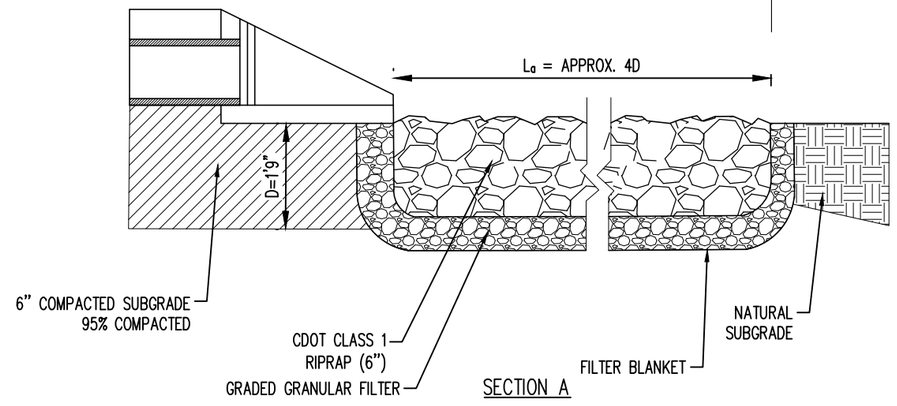
PIPE OUTLET TO SURFACE WATER
OVERFALL PLAN VIEW



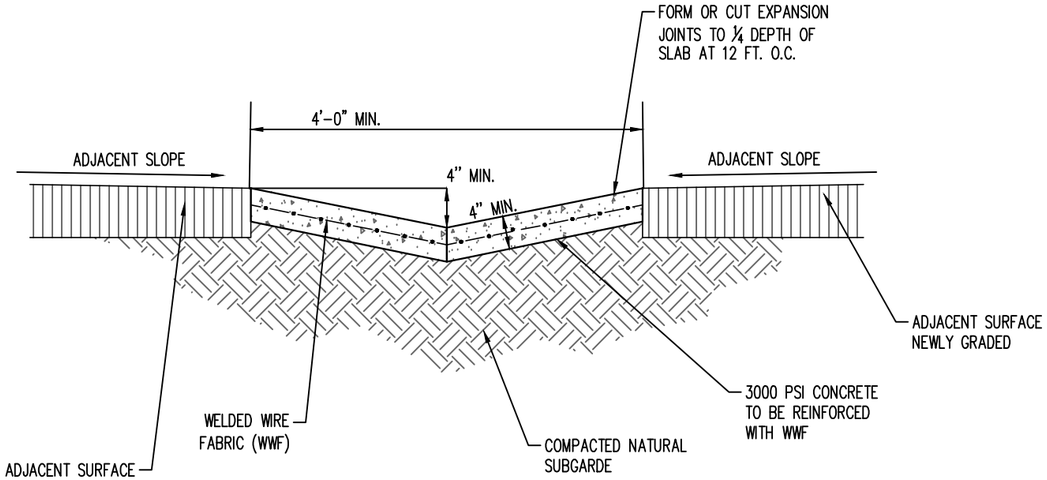


SECTION A

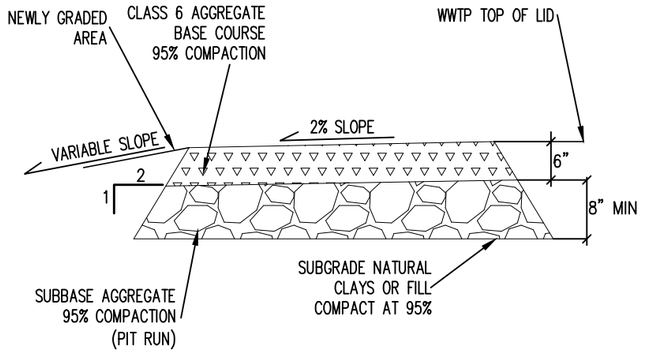
NOTES:

1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D=1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. A FILTER BLANKET OF FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
4. REQUIRED AVERAGE SIZE OF RIPRAP STONE (FT), D_{50} = 6"

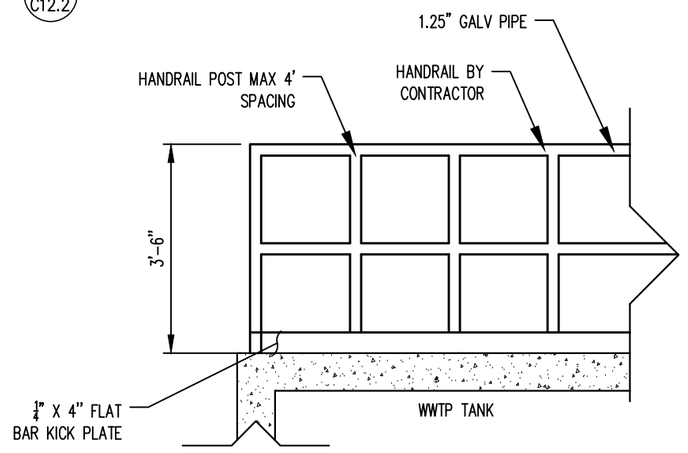
PROPOSED RIPRAP W/SOIL AND GRASS OR GROUND COVER 1 C12.2
N.T.S.



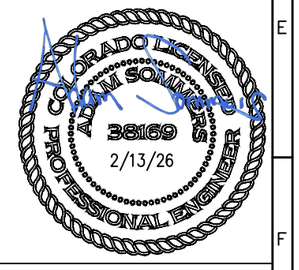
CONCRETE CHANNEL DETAIL 2 C12.2
N.T.S.



GRAVEL DRIVEWAY SECTION DETAIL 3 C12.2
NTS



GUARD RAIL 4 C12.2
NTS



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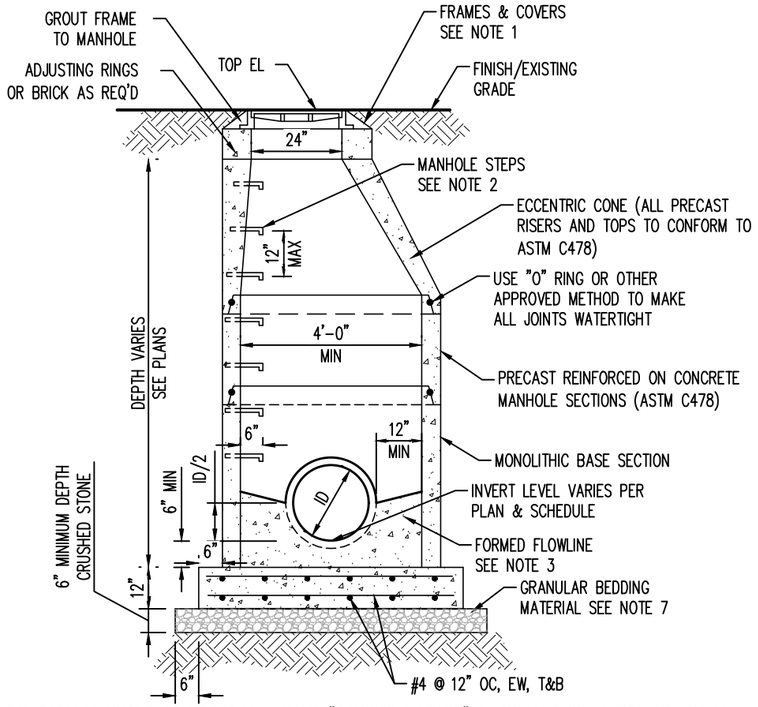
SHEET TITLE: CIVIL DETAILS II

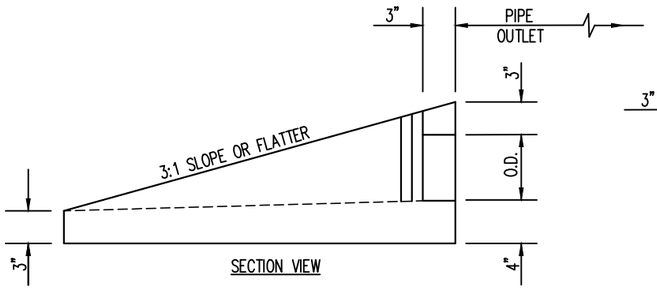
PROJECT NUMBER:	SCALE:	SHEET:
#3774	N.T.S.	C12.2



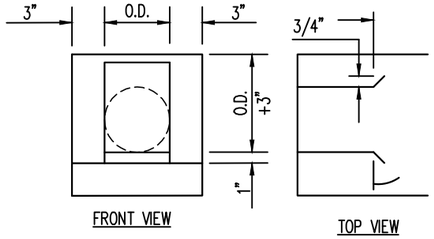
NOTES

1. SANITARY MANHOLE COVERS SHALL HAVE "SANITARY SEWER" CAST ON THE COVER AND SHALL BE NEENAH R-1688 OR ENGINEER APPROVED EQUIVALENT. STORM MANHOLE COVERS SHALL HAVE "STORM SEWER" CAST ON THE COVER AND SHALL BE NEENAH R-1678 OR ENGINEER APPROVED EQUIVALENT.
2. MANHOLE STEPS TO BE M.A. INDUSTRIES 004-501-DF OR ENGINEER APPROVED EQUIVALENT. PROVIDED TO WITHIN 12" OF TOP OF CONE.
3. FLOWLINE OF MANHOLE MAY BE FORMED IN CONCRETE; BUILT UP WITH MORTAR; OR BY LAYING A PIPE THROUGH MANHOLE, THE TOP BEING BROKEN OUT LATER.
4. GROUT ANNULAR SPACE BETWEEN WALL AND PIPE WITH NON-SHRINK MORTAR TO INSURE WATERTIGHT SEAL.
5. ALL CONCRETE TO COMPLY WITH ACI 318 AND SHALL BE A MINIMUM STRENGTH OF 3000 PSI AT 28 DAY TEST.
6. ALL MANHOLES AND SPECIAL STRUCTURES TO BE PLACED ON SUITABLE SUBGRADE MATERIAL. IF SUBGRADE CONDITIONS WARRANT, UNSUITABLE FOUNDATION MATERIAL WILL BE OVEREXCAVATED, AND SELECT SUBGRADE MATERIAL WILL BE PLACED AS PER SECTION 5.00 OF THE WCPM STANDARD CONSTRUCTION SPECIFICATIONS.
7. GRANULAR BEDDING MATERIAL SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AASHTO T-180.

CONCRETE MANHOLE DETAIL (1 / C12.3)
N.T.S.



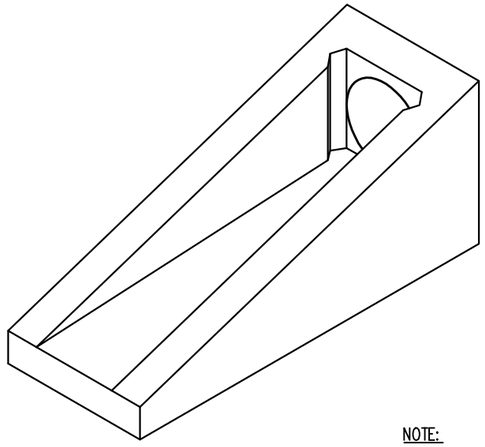
SECTION VIEW



FRONT VIEW

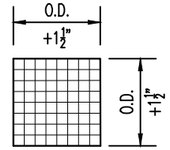
TOP VIEW

SLOTTED HEADWALL DETAIL



ISOMETRIC VIEW

PIPE OUTLET



FRONT VIEW

RODENT SCREEN

NOTE:

1. THE PIPE SHALL BE LOCATED AS SHOWN ON THE TYPICAL SECTIONS OF THE CONSTRUCTION PLANS.
2. SLOPE OF THE PIPE SHALL MATCH ROADWAY GRADE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. OUTLET PIPE CONFIGURATIONS SHALL USE 45 DEGREE ELBOWS OR SHALL USE STRAIGHT PIPE WITH A MINIMUM RADIUS OF 3' TO DIRECT PIPE INTO SIDE OF DRAINAGE INLET OR TO POSITIVE GRADE. PIPE SHALL ALSO BE NON-PERFORATED AND HAVE A SMOOTH INTERIOR.
4. RODENT SCREEN SHALL SNUGLY FIT THE PROVIDED SLOT WITH THE SCREEN LIP FITTING TIGHT TO THE BOTTOM FLOW LINE.
5. A DELINEATOR SHALL BE INSTALLED ADJACENT TO THE CONCRETE APRON OF THE PIPE OUTFALL IN THE UPSTREAM DIRECTION OF VEHICULAR TRAVEL. THE DELINEATOR SHALL BE GALVANIZED TELESCOPING STEEL SIGN POST. THE DELINEATOR SHALL EXTEND 4' ABOVE GROUND ELEVATION AND SHALL HAVE A 4"x8"x0.08" ALUMINUM RETROREFLECTIVE BLUE REFLECTOR BOLTED TO BOTH SIDES OF THE POST WITH HARDWARE COMPATIBLE WITH THE SIGN POST.
6. WHEN TWO LINES OF PIPE DRAIN TO A LOW POINT, EACH PIPE MUST HAVE ITS OWN OUTLET.
7. PIPE SHALL NOT BE PLACED UNDER GUARDRAIL IN ORDER TO AVOID PUNCTURING.

OVERFLOW OUTLET DETAIL (2 / C12.3)
NTS

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(303) 477-5915

SHEET TITLE: CIVIL DETAILS III

PROJECT NUMBER:	SCALE:	SHEET:
#3774	N.T.S.	C12.3

EQUIPMENT NOTES:

1. 4' X 4' PRECAST CONCRETE VAULT. INCLUDE CONMIC CON SHIELD HD CONCRETE ADDITIVE OR EQUAL.
2. FL IN 10" = 7,359.57'
3. FL OUT 10" = 7,359.57'
4. DUPERON DUAL AUGER SYSTEM

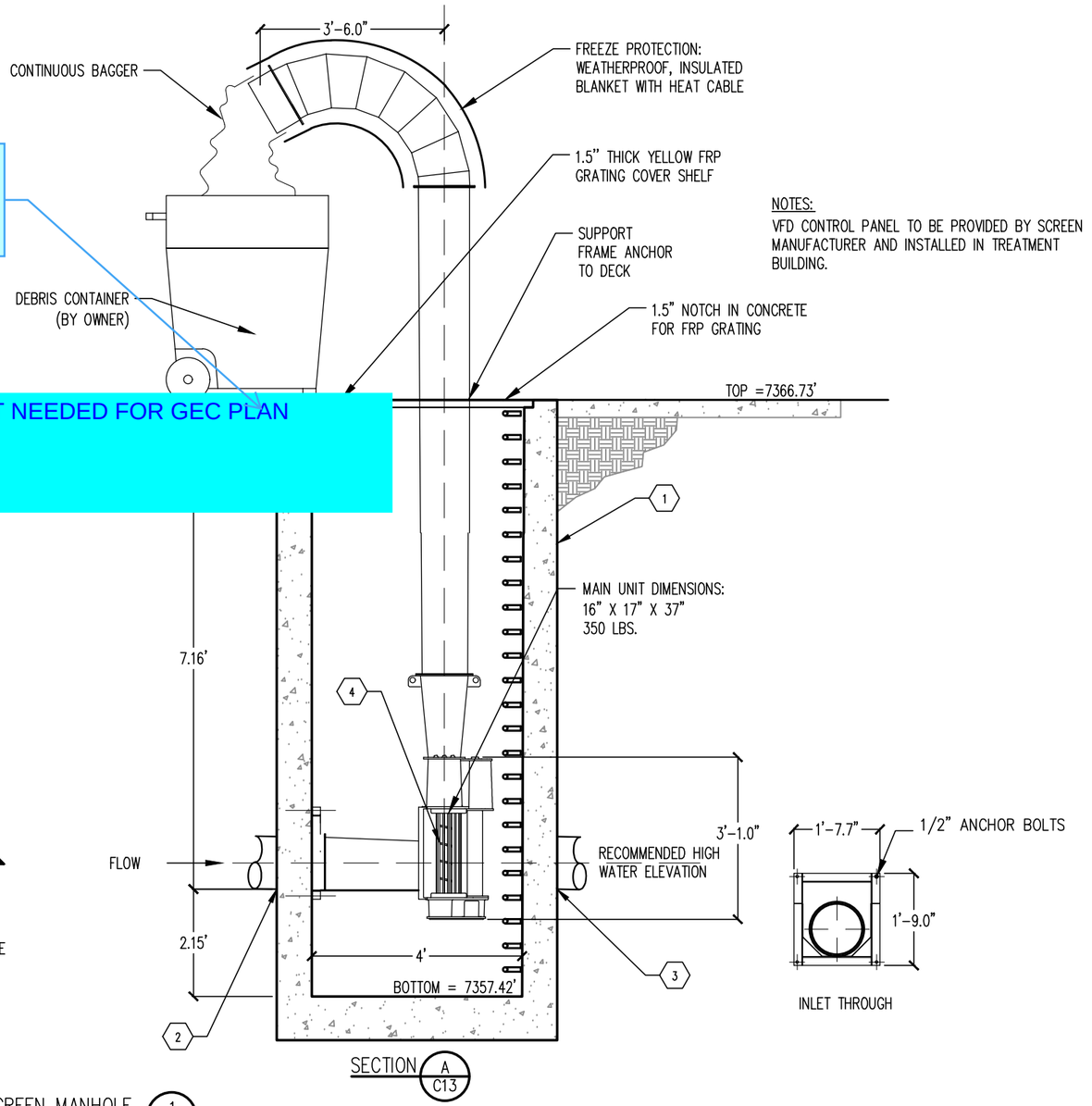
NOTES:

CONTRACTOR TO VERIFY THE FOLLOWING AND NOTES COMMENTS ON THE PRE-SUBMITTAL VERIFICATION FORM:

A. WET WELL LENGTH/WIDTH
B. INFLUENT PIPE INVERT ELEVATION.
C. HIGH WATER & MEAN WATER LEVEL ELEVATIONS.
D. DECK ELEVATION.
E. OPENING THRU DECK DIMENSION(S).
F. INFLUENT PIPE LOCATION INCLUDING ANY OFFSETS.
G. DEBRIS CONTAINMENT HEIGHT AND LOCATION.
H. CUSTOMER TO NOTE ANY SITE CONSTRAINTS (CEILING HEIGHT, ETC.)
I. VERIFY IF ANY INSTALLATION CONSTRAINTS EXIST. (ACCESS DOOR OPENINGS, DECK OPENING, ETC.).
J. VERIFY IF INTERIOR OR EXTERIOR INSTALLATION.
K. VERIFY IF FREEZING CONDITIONS ARE PRESENT.
L. VERIFY CONCRETE (ESPECIALLY AT ANCHOR POINTS) IS IN SOLID CONDITION.
M. CONTRACTOR TO HAVE CERTIFIED SURVEYOR STAKE AND VERIFY INVERTS OF INLET STRUCTURE MANHOLES.

Excluded this sheet and prepared the sheet set as per request on G2.

NOT NEEDED FOR GEC PLAN

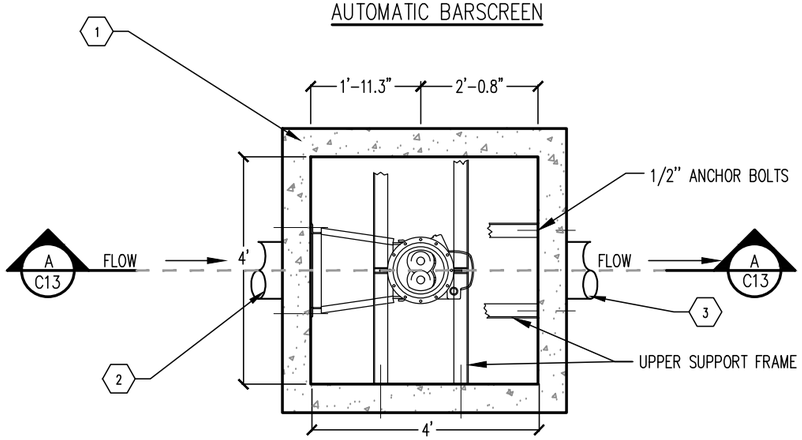


SECTION A C13

NOTES:

VFD CONTROL PANEL TO BE PROVIDED BY SCREEN MANUFACTURER AND INSTALLED IN TREATMENT BUILDING.

AUTOMATIC BARSCREEN



INFLUENT BARSCREEN MANHOLE 1 C13
N.T.S.

INLET THROUGH

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EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
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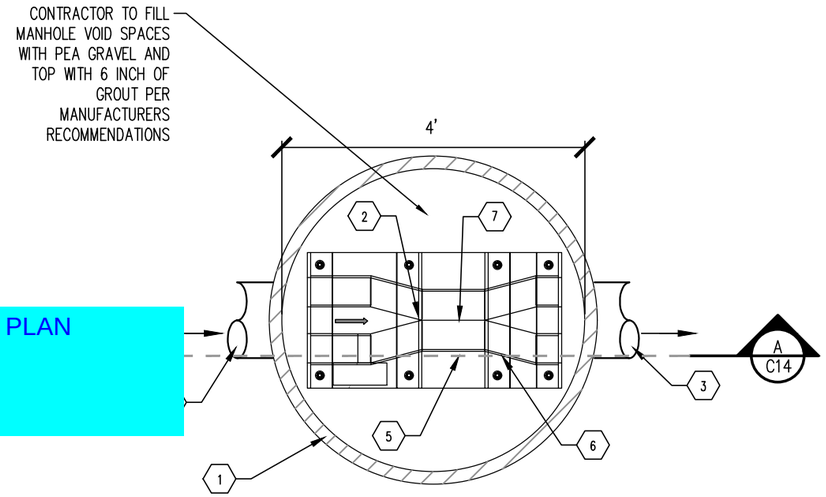
(303) 477-5915

SHEET TITLE: INFLUENT BARSCREEN MANHOLE DETAIL

PROJECT NUMBER:	SCALE:	SHEET:
#3774	N.T.S.	C13

EQUIPMENT NOTES:

1. PACKAGED PLASTI-FAB OR EQUAL 4'ø FIBERGLASS METERING MANHOLE
2. XL 60° TRAPEZOIDAL FLUME
3. 10" SDR 35 IN./OUT. INV 7,359.52'
4. ULTRASONIC LEVEL TRANSDUCER, NEWTERRA SUPPLIED
5. SAMPLE PIPE
6. SITTING WELL
7. ULTRASONIC BRACKET



INFLUENT METERING MANHOLE PLAN

NOT NEEDED FOR GEC PLAN

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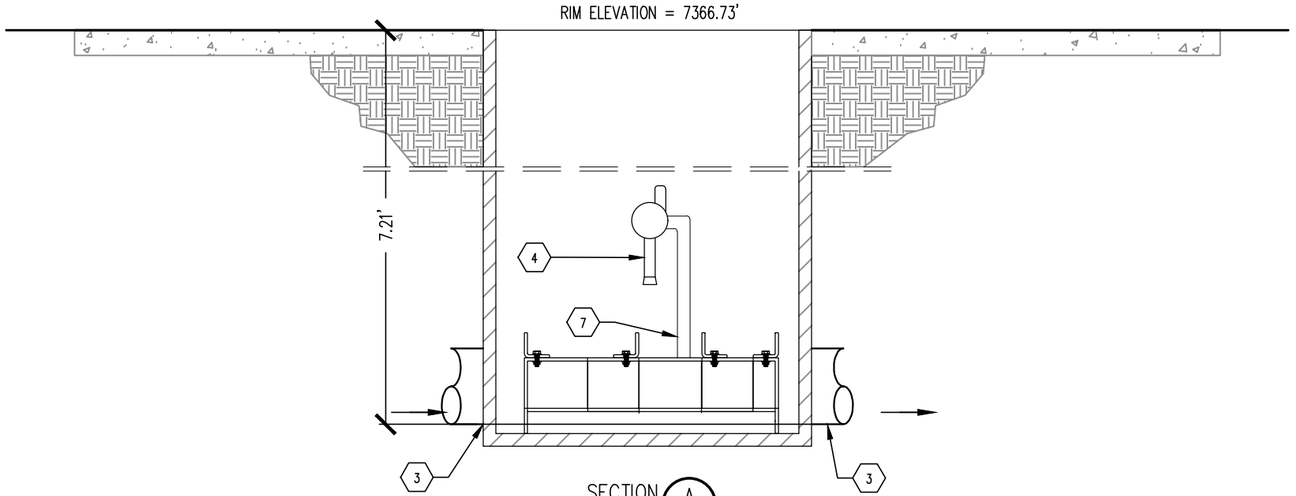

SECTION A C14

INFLUENT METERING MANHOLE 1 C14
N.T.S.

COLORADO LICENSED
ADAM SOMMERS
38169
PROFESSIONAL ENGINEER
2/13/26

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PROJECT: WALDEN CORPORATION WWTP
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

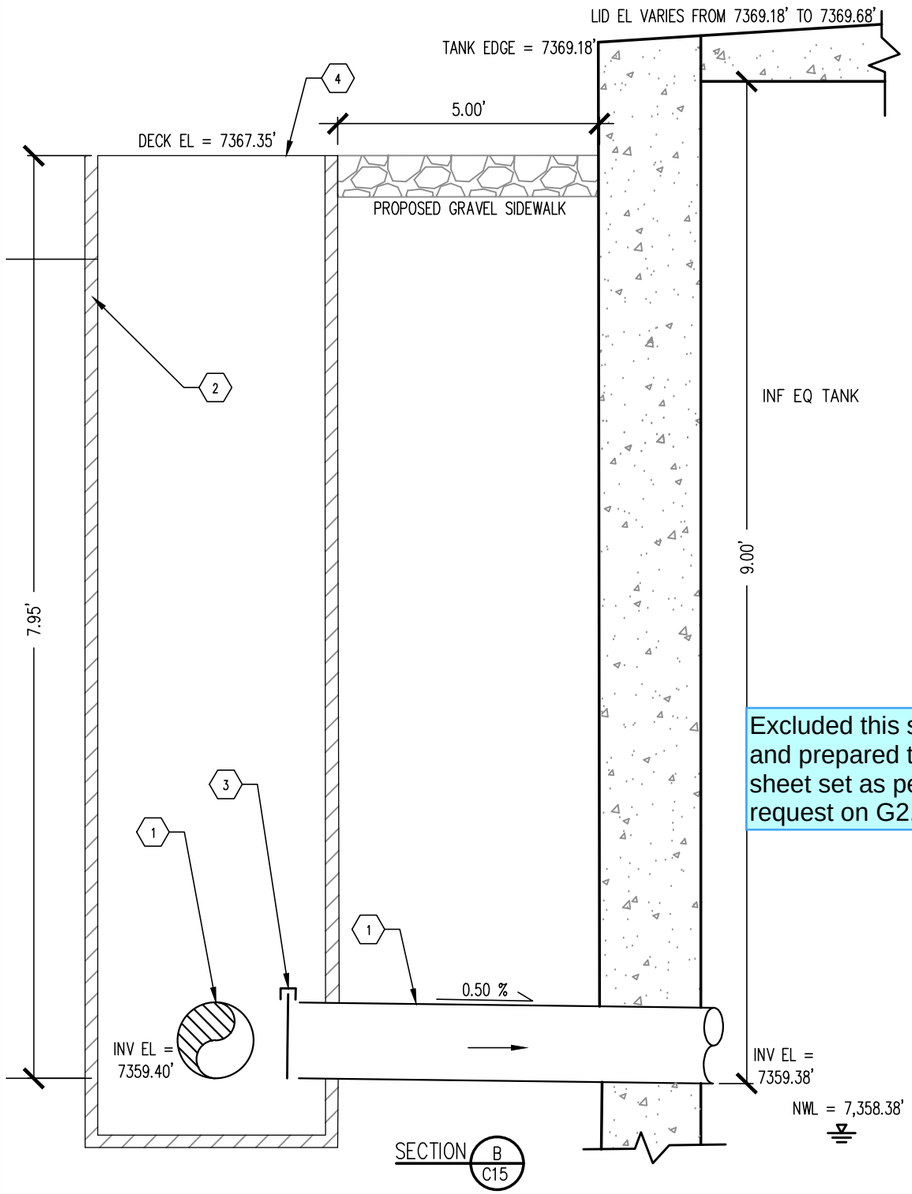
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: INFLUENT METERING MANHOLE DETAIL

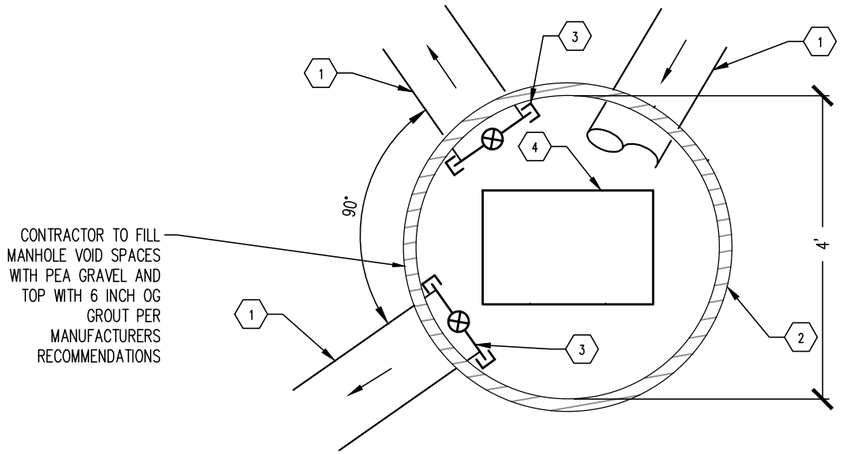
PROJECT NUMBER:	SCALE:	SHEET:
#3774	N.T.S.	C14

EQUIPMENT NOTES:

1. 10" PVC SDR 35
2. PREFABRICATED 48"ø FIBERGLASS DIVERSION STRUCTURE. PLASTI-FAB OR EQUAL
3. 10" SLIDE GATE VALVE
4. ACCESS HATCH



SECTION B C15



FLOW DIVERSION STRUCTURE PLAN

NOT NEEDED FOR GEC PLAN

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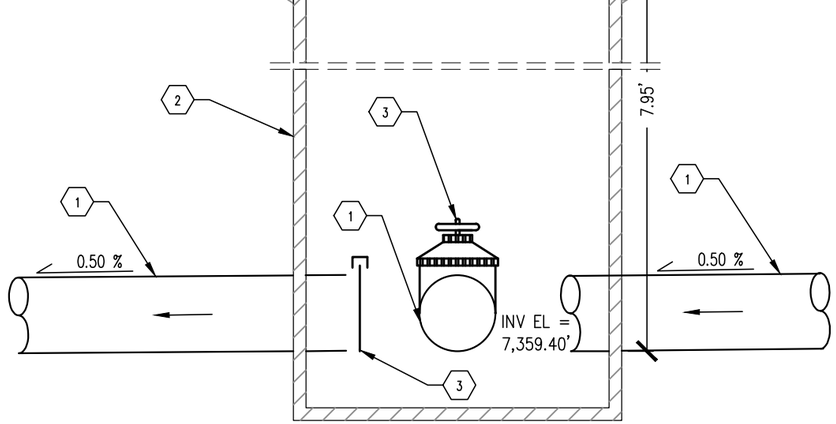

SECTION A C15

INFLUENT DIVERSION MANHOLE 1 C15
N.T.S.

COLORADO LICENSED ADAM SOMMERS 38169 PROFESSIONAL ENGINEER 2/13/26

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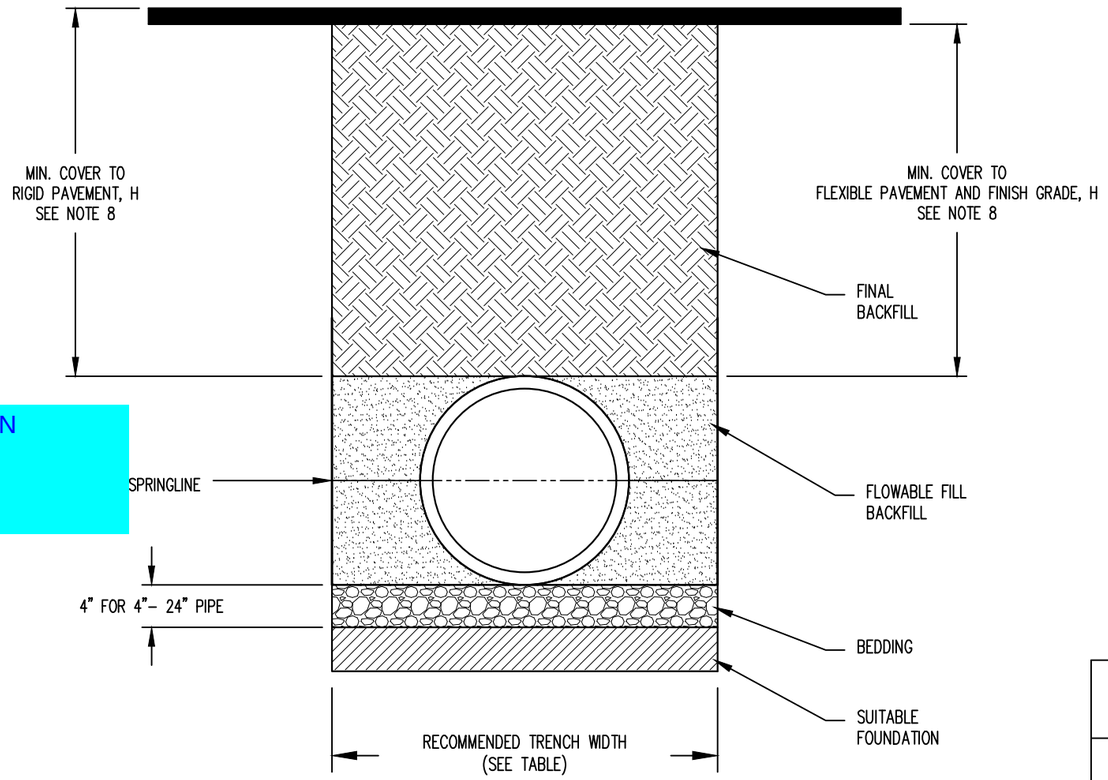
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: INFLUENT DIVERSION MANHOLE DETAIL

PROJECT NUMBER:	SCALE:	SHEET:
#3774	N.T.S.	C15



NOT NEEDED FOR GEC PLAN

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NOTES:

1. FLOWABLE FILL SH QUATE STRENGTH TO CARRY ALL LIVE AND DEAD LOADING BUT ALLOW FOR ANY FUTURE EXCAVATION. TYPICAL 28 DAY COMPRESSIVE D 100 PSI. MIX SHOULD BE OF A CONSISTENCY THAT COMPLETELY FILLS SPACE BETWEEN PIPE AND TRENCH WALLS.
2. IF TRENCH IS EXCAVATED IN ROCK OR HIGH–BEARING STRENGTH SOILS, TRENCH WIDTHS FOR GREATER DIA. THEN 12" MAY BE REDUCED, FROM VALUES IN TABLE, TO THE PIPE OD PLUS 12".
3. FLOWABLE FILL SHOULD NOT BE PLACED WHEN TEMPERATURES ARE BELOW 40°F, AGAINST FROZEN TRENCH MATERIAL OR WHEN APPRECIABLE PRECIPITATION IS FORECASTED DURING PLACEMENT.
4. PRECAUTIONS SHALL BE TAKEN TO PREVENT FLOTATION. ANCHORING SYSTEM AND/OR INCREMENTAL LIFTS SHOULD BE UTILIZED TO ENSURE PIPE REMAINS ON GRADE.
5. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
6. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4"–24" DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.
7. FINAL BACKFILL: FINAL BACKFILL SHALL NOT BE PLACED UNTIL A PENETROMETER READING OF AT LEAST 500 PSI PER ASTM C403 IS MEASURED, THE CRITERIA OF ASTM D 6024 ARE MET, OR OTHER MEANS APPROVED BY THE ENGINEER TO DETERMINE SUITABILITY FOR LOAD APPLICATION ARE SATISFIED.
8. MINIMUM COVER: MINIMUM COVER, H, IS 12" UP TO 24" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. SHALLOWER COVER MAY BE POSSIBLE AND IS CONTINGENT UPON THE MIX BEING DESIGNED TO CARRY THE ANTICIPATED VEHICULAR LOADS, INCLUDING IMPACTING FORCES.

RECOMMENDED TRENCH WIDTH

PIPE DIA. SIZE (INCHES)	MINIMUM TRENCH WIDTH (INCHES)
4	21
6	23
8	25
10	28
12	30
16	34
18	39
24	48

FLOWABLE BACKFILL DETAIL — 1 / C16
N.T.S.

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38169
2/13/26
PROFESSIONAL ENGINEER

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AquaWorks DBO INC
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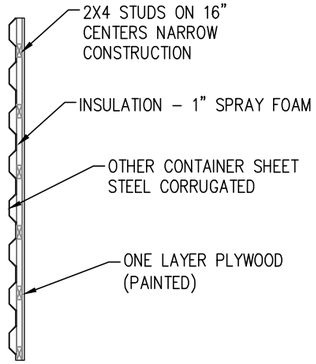
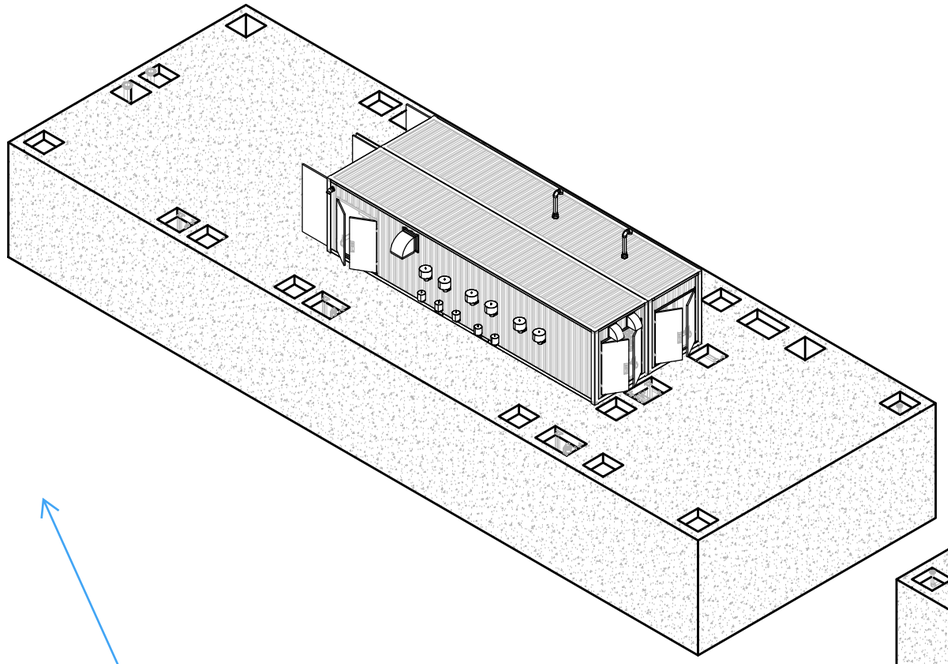
PROJECT: COLLECTION & DISTRIBUTION SYSTEMS CAPITAL IMPROVEMENT PLAN
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477–5915

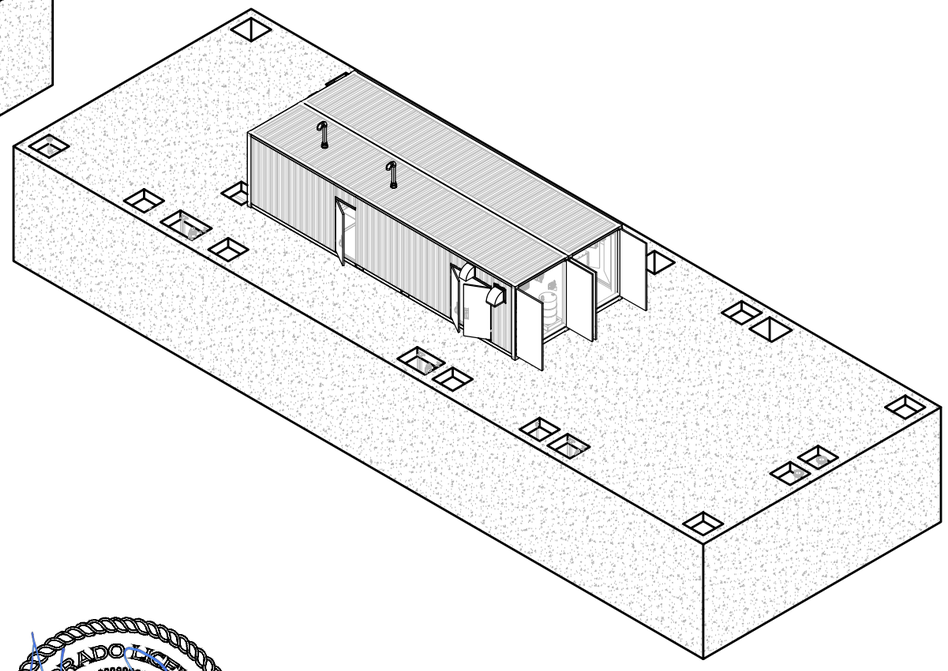
SHEET TITLE: FLOWABLE BACKFILL DETAIL

PROJECT NUMBER:	SCALE:	SHEET:
#3774	N.T.S.	C16



BLD–7910 WALL PLAN:





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CIVIL CONSTRUCTION NOTES:
- INSTALL GRATING BETWEEN BUILDING FANS AND OUTSIDE LOUVERS.
- THERMAL INSULATION ON WALLS AND CEILING, SPRAY FOAM
- DOOR COLOR TO BE: TBD
- EXTERIOR COLOR TO BE: TBD
- INTERIOR FLOOR TO BE: MARINE GRADE PLYWOOD
- INTERIOR FLOOR TO BE PAINTED: GATOR GUARD

MECHANICAL NOTES:
- LOCATE THERMOSTAT IN THE WARMEST LOCATION AT CEILING LEVEL.
- MAXIMUM WIDTH FOR SHIPPING IS 102". THIS INCLUDES ALL CONNECTIONS THAT PROTRUDE THROUGH THE SIDES OF THE ENCLOSURE.

COMMISSIONING NOTES:
- FAN AND LOUVER HOODS NEED TO BE INSTALLED ON SITE. SYSTEM CANNOT SHIP WITH HOODS ATTACHED.
- BUILDINGS NEED TO BE SHIMMED ON SITE WITH ½"T X 3"W STEEL FLAT BARS TO ALLOW DOORS TO OPEN FREELY. PLEASE HAVE SHIMMING MATERIAL READY DURING BUILDING INSTALLATION.

STANDARD SYSTEM LABELS:
- FLOW DIRECTION LABELS
- AIR LINE LABELS
- WATER LINE LABELS
- HOT SURFACE LABEL
- HEARING PROTECTION LABELS
- WATER LABEL: THIS EQUIPMENT IS AUTOMATICALLY CONTROLLED
- ARC FLASH WARNING LABEL

ISOMETRICS
1/16" = 1'-0"

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AquaWorks DBO INC
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PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477–5915

SHEET TITLE:
BUILDING ISOMETRICS & INSTALLATION

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/16" = 1'–0"	P1

PIPING CONNECTION NOTES:

- (M1) 6" FINE SCREEN A TO PRE-ANOXIC TANK A (TNK-0401A)
- (M2) 6" FINE SCREEN B TO PRE-ANOXIC TANK B (TNK-0401B)
- (M3) 2" EQ TANK TRANSFER PUMPS A (TNK-0301A) TO FINE SCREEN A
- (M4) 2" EQ TANK TRANSFER PUMPS B (TNK-0301B) TO FINE SCREEN B
- (M5) 4" POST-ANOXIC TANK (TNK-0601A) MBR FEED FORWARD PUMPS A TO MBR TANK A (TNK-0701A)
- (M6) 4" POST-ANOXIC TANK (TNK-0601B) MBR FEED FORWARD PUMPS B TO MBR TANK B (TNK-0701B)
- (M7) 8" MBR TANK A (TNK-0701A) RAS TO PRE-ANOXIC TANK A (TNK-0401A)
- (M8) 8" MBR TANK B (TNK-0701B) RAS TO PRE-ANOXIC TANK B (TNK-0401B)
- (M9) 6" AEROBIC BLOWERS TO AEROBIC TANK A (TNK-0501A) DIFFUSERS
- (M10) 6" AEROBIC BLOWERS TO AEROBIC TANK B (TNK-0501B) DIFFUSERS
- (M11) 4" SLUDGE TANK BLOWERS TO SLUDGE TANK (TNK-0901) DIFFUSERS
- (M12) 3" EQ TANK BLOWERS TO EQ TANK A (TNK-0301A)
- (M13) 3" EQ TANK BLOWERS TO EQ TANK B (TNK-0301B)
- (M14) 3" BREAK TANK TO PHOSPHORUS POLISHING FILTERS A/B
- (M15) 4" BUILDING 7920 FLOOR DRAIN W/ P-TRAP TO INF EQ TANKS A/B (TNK-0301A/B)
- (M16) 3" BUILDING 7910 FLOOR DRAIN W/ P-TRAP TO INF EQ TANKS A/B (TNK-0301A/B)
- (M17) 3" UV DISINFECTION TO PHOSPHORUS POLISHING BREAK TA
- (M18) 2" SUPERNATANT FROM SLUDGE HOLDING TANK (TNK-0901
- (M19) 2" SUPERNATANT FROM SLUDGE HOLDING TANK (TNK-0901
- (M20) 2" FLOW METER A TO INFLUENT EQ TANK A (TNK-0301A)
- (M21) 2" FLOW METER A TO INFLUENT EQ TANK B (TNK-0301B)
- (M22) 3" WAS FROM MBR TANK A (TNK-0701A) TO SLUDGE HOLDING TANK (TNK-0901)
- (M23) 3" WAS FROM MBR TANK B (TNK-0701B) TO SLUDGE HOLDING TANK (TNK-0901)
- (M24) 1" NON-POTABLE WATER FROM BACKFLOW PREVENTER (REPURPOSED BUILDING) TO WWTP
- (M25) 10" SANITARY SEWER INF FROM COLLECTION SYSTEM TO INF EQ TANK A (TNK-0301A)
- (M26) 10" SANITARY SEWER INF FROM COLLECTION SYSTEM TO INF EQ TANK B (TNK-0301B)
- (M27) 6" INTERBASIN OVERFLOW
- (M28) 12" HYDRAULIC CONNECTION
- (M29) 3" POLISHING FILTER DISCHARGE ENT DISCHARGE MANHOLE
- (M30) 3" FILTER FEED PUMPS (P-100 S (REPURPOSED BUILDING)
- (M31) 2" ALUM CASING PIPE TO OFFSITE CHEMICAL FEED (REPURPOSED BUILDING)
- (M32) 10" OVERFLOW TO DECOMMISSIONED SBR TREATMENT BASIN
- (M33) 1" POTABLE WATER FROM CITY TO RPZA BACKFLOW PREVENTER (REPURPOSED BUILDING)
- (M34) 4" CAUSTIC CASING PIPE TO OFFSITE CHEMICAL FEED (REPURPOSED BUILDING)
- (M35) 3" AEROBIC TANK B (TNK-0501B) RECIRCULATION PUMPS (P-0501/2B) TO PRE-ANOXIC TANK B (TNK-0401B)
- (M36) 3" AEROBIC TANK A (TNK-0501A) RECIRCULATION PUMPS (P-0501/2A) TO PRE-ANOXIC TANK A (TNK-0401A)

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

PROCESS NOTES:

- (1) INFLUENT EQ A TRANSFER PUMPS (P-0301/2A)
- (2) INFLUENT EQ B TRANSFER PUMPS (P-0301/2B)
- (3) AEROBIC TANK A RECIRCULATION PUMPS (P-0501/2A)
- (4) AEROBIC TANK B RECIRCULATION PUMPS (P-0501/2B)
- (5) POST-ANOXIC TANK MEMBRANE FEED PUMPS A (P-0601/2A)
- (6) POST-ANOXIC TANK MEMBRANE FEED PUMPS B (P-0601/2B)
- (7) SLUDGE HOLDING TANK SUPERNATANT RETURN PUMPS (P-0901A/B)
- (8) EFFLUENT POLISHING FILTER FEED PUMPS (P-1001A/B)
- (9) PRE-ANOXIC TANK A SUBMERSIBLE MIXER (MX-0401A)
- (10) PRE-ANOXIC TANK B SUBMERSIBLE MIXER (MX-0401B)
- (11) POST-ANOXIC TANK A SUBMERSIBLE MIXER (MX-0601A)
- (12) POST-ANOXIC TANK B SUBMERSIBLE MIXER (MX-0601B)
- (13) MEMBRANE (MBR) TANK A (TNK-0701A)
- (14) MEMBRANE (MBR) TANK B (TNK-0701B)
- (15) EQUALIZATION (EQ) TANK BLOWERS (B-0301A/B)
- (16) AEROBIC TANK BLOWERS (B-0501A/2A)
- (17) AEROBIC TANK BLOWERS (B-0501B/2B)
- (18) MEMBRANE (MBR) TANK BLOWERS (B-0701A/B/C)
- BLOWERS (B-0901A/B)
- R GRID (EQ, TNK-0301/0302)
- R GRID (SLUDGE HOLDING, TNK-0901)
- GRID (AEROBIC, TNK-0501A/B)
- (23) AUTOMATIC FINE SCREEN A (SCR-0201A)
- (24) AUTOMATIC FINE SCREEN B (SCR-0201B)
- (25) MEMBRANE (MBR) PERMEATE PUMPS (P-0701A/2A)
- (26) MEMBRANE (MBR) PERMEATE PUMPS (P-0701B/2B)
- (27) PERMEATE PRIME/AIR BLEED PUMPS (P-0703A/B)
- (28) MEMBRANE BACKWASH PUMPS (P-0801A/B)
- (29) MEMBRANE BACKWASH TANK (TNK-0801)
- (30) MICRO C CHEM FEED SYSTEMS (P-6103A/B)
- (31) CIP SODIUM HYPOCHLORITE CHEM FEED SYSTEM (P-6105)
- (32) CIP CITRIC ACID CHEM FEED SYSTEM (P-6106)
- (33) UV REACTORS (TYP 6) (UV-0801A/B/C, UV-0802A/B/C)
- (34) BUILDING HEATER, BLD-7910 (H-7911)
- (35) BUILDING HEATER, BLD-7920 (H-7921)
- (36) BUILDING HEATER, BLD-7930 (H-7931)
- (37) HEADWORKS (BLD-7920) VENTILATION BLOWER (B-7921)
- (38) VFD (X10) STACKED
- (39) EYEWASH STATION
- (40) FIRE EXTINGUISHER

PROCESS NOTES:

- (41) CONTROL/POWER PANELS
- (42) VENT FAN W/ RAIN HOOD
- (43) VENT LOUVER W/ RAIN HOOD
- (44) 4" PVC SCH 80 TANK VENT (TYP)*
- (45) 6" PVC SCH 80 INTERBASIN OVERFLOW*
- (46) 10" PVC*
- (47) 8" PVC*
- (48) 6" PVC*
- (49) 4" PVC*
- (50) 3" PVC*
- (51) 2" PVC*
- (52) 6" CPVC (AIR PIPING)*
- (53) 4" CPVC (AIR PIPING)*
- (54) 3" CPVC (AIR PIPING)*
- (55) 10" 90 ELBOW*
- (56) 8" 90 ELBOW*
- (57) 6" 90 ELBOW*
- (58) 4" 90 ELBOW*
- (59) 3" 90 ELBOW*
- (60) 2" 90 ELBOW*
- (61) 4" TEE*
- (62) 3" TEE*
- (63) 2" TEE*
- (64) 4" BALL VALVE*
- (65) 3" BALL VALVE*
- (66) 2" BALL VALVE*
- (67) 4" BALL CHECK VALVE*
- (68) 3" BALL CHECK VALVE*
- (69) 2" BALL CHECK VALVE*
- (70) 2" RUBBER HOSE, REINFORCED/BRAIDED EPDM, 150 PSI
- (71) 90 ELBOW P-TRAP ASSEMBLY W/ TRAP SEAL*
- (72) 4" MBR TANK VENT THRU ROOF
- (73) WATERLESS TRAP SEAL (MFR: GREENDRAIN OR EQUAL)*
- (74) PIPE PENETRATION MODULAR LINK SEAL*
- (75) HOIST CRANE BASE*
- (76) 4" GOOSENECK VENT*
- (77) EXTERIOR LIGHT (ABOVE DOOR)
- (78) BLOWER INTAKE FILTER HOUSING
- (79) JUNCTION BOX (NEMA 4X, RE: ELEC)
- (80) VFD (X4) STACKED

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2/13/26
PROFESSIONAL ENGINEER

PROCESS NOTES:

- (81) VFD (X2) STACKED
- (82) TURBIDITY METER & TRANSMITTER (AIT-0701A/B)
- (83) 1" HDPE DR 11*
- (84) FLxFL FOR AIR PIPING*
- (85) 6"X4" REDUCING BUSHING*
- (86) 4"X3" REDUCING BUSHING*
- (87) SUBMERSIBLE PUMP LIFTING CHAIN GRIP EYE, FLYGT 6200900 OR EQUAL

NOTES:

GENERAL

1) IN-BASIN PIPE HANGERS AND SUPPORTS TO BE SUPPLIED BY GENERAL CONTRACTOR.
2) LIQUID-CARRYING PROCESS PIPING TO BE PVC SCH 80 UNLESS NOTED OTHERWISE.
3) BLOWER AIR PROCESS PIPING TO BE CPVC SCH 80 UNLESS NOTED OTHERWISE.
4) CONTRACTOR TO FILL FLOOR VOIDS WITH GROUT. GROUT AROUND ALL FLOOR DRAINS.
5) FOR HATCH FRAME SIDES ABUTTED AGAINST TANK WALLS, BOTTOM FRAME FLANGES ON WALL SIDE(S) TO BE REMOVED AT FACTORY DURING FABRICATION PRIOR TO SHIPMENT.
6) NEWTERRA IN-BASIN EQUIPMENT SHIPPED LOOSE TO THE SITE INCLUDES DIFFUSER PIPING, PUMPS, AND IN-BASIN EQUIPMENT FOR CONTRACTOR INSTALLATION. ALL IN-BASIN PIPING, FITTINGS, AND CONNECTIONS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
7) CONTRACTOR HAS ALLOWANCE TO MOVE BELOW GRADE CONCRETE PENETRATIONS (HORIZONTAL) AS NEEDED FOR REBAR CLEARANCE WITHIN THE WALLS. VERTICAL PENETRATION ELEVATIONS TO REMAIN AS SHOWN.
8) GROUT EQ TANK INTER-BASIN WALL PENETRATIONS.
9) INSTALL MODULAR LINK SEAL FOR ALL BASIN PENETRATIONS TO EXTERIOR, AND FOR ALL PENETRATIONS AT OR BELOW HWL.
10) WHEN INSTALLING IN-BASIN LEVEL TRANSDUCERS AND MECHANICAL FLOAT SWITCHES, INSTALL 1 INCH TO 2 INCHES BELOW THE TARGET OPERATING LEVEL TO ALLOW FOR SWING FLUCTUATIONS IN THE BASIN FROM LIQUID TURBULENCE.
11) INSTALL IN-BASIN LEVEL TRANSDUCERS A MINIMUM OF 2 FEET HORIZONTAL CLEARANCE FROM ALL IN-BASIN PUMPS.
12) INSTALL DO AND pH PROBES A MINIMUM OF 2 FEET BELOW SWD.
13) HANG pH PROBES VERTICALLY AND DO PROBES AT A 45 DEG ANGLE.
14) FOR ALL FLOOR DRAINS, INSTALL WATERLESS TRAP SEALS IN ADDITION TO THE BELOW GRADE P-TRAP SHOWN.

TANK COATINGS

1) COAT INFLUENT EQUALIZATION TANK INTERIOR WALLS AND UNDERSIDE OF LID. SYSTEM TYPE: EPOXY, SHERWIN WILLIAMS OR EQUAL.
2) SURFACE PREPARATION: SSPC-SP 13/NACE 6 WITH A SURFACE PROFILE OF ICRI CSP 5-6.
3) FILLER: FILL BUG HOLES, AIR POCKETS AND OTHER VOIDS WITH STEEL-SEAM FT910.
4) FINISH: DURA-PLATE 6000 REINFORCED EPOXY. DFT 60.0 TO 80.0 MILS.

*DENOTES EQUIPMENT & MATERIALS SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR.

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PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

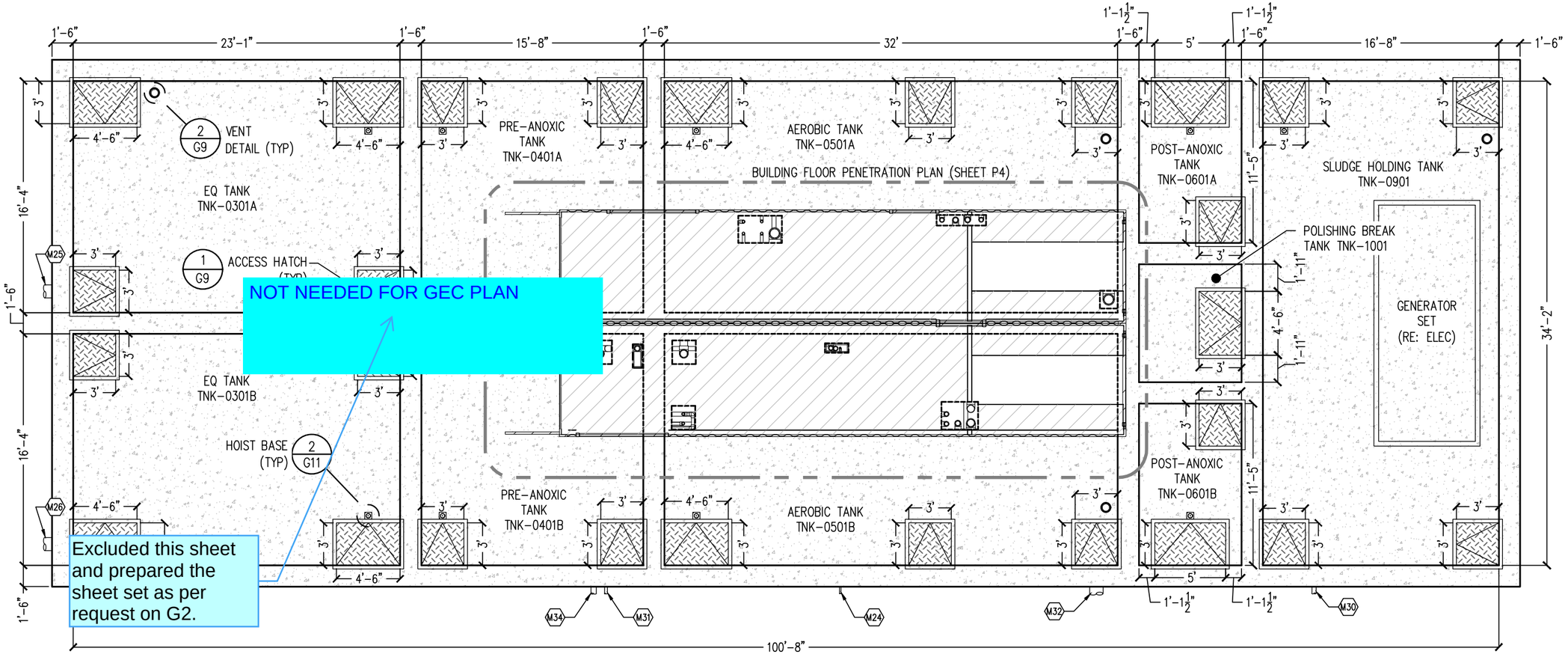
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: EQUIPMENT & PROCESS NOTES

PROJECT NUMBER:	SCALE:	SHEET:
#3774	NOT TO SCALE	P2

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.



CONCRETE TANK LID PLAN
1/8" = 1'-0"

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ADAM SOMMERS
38169
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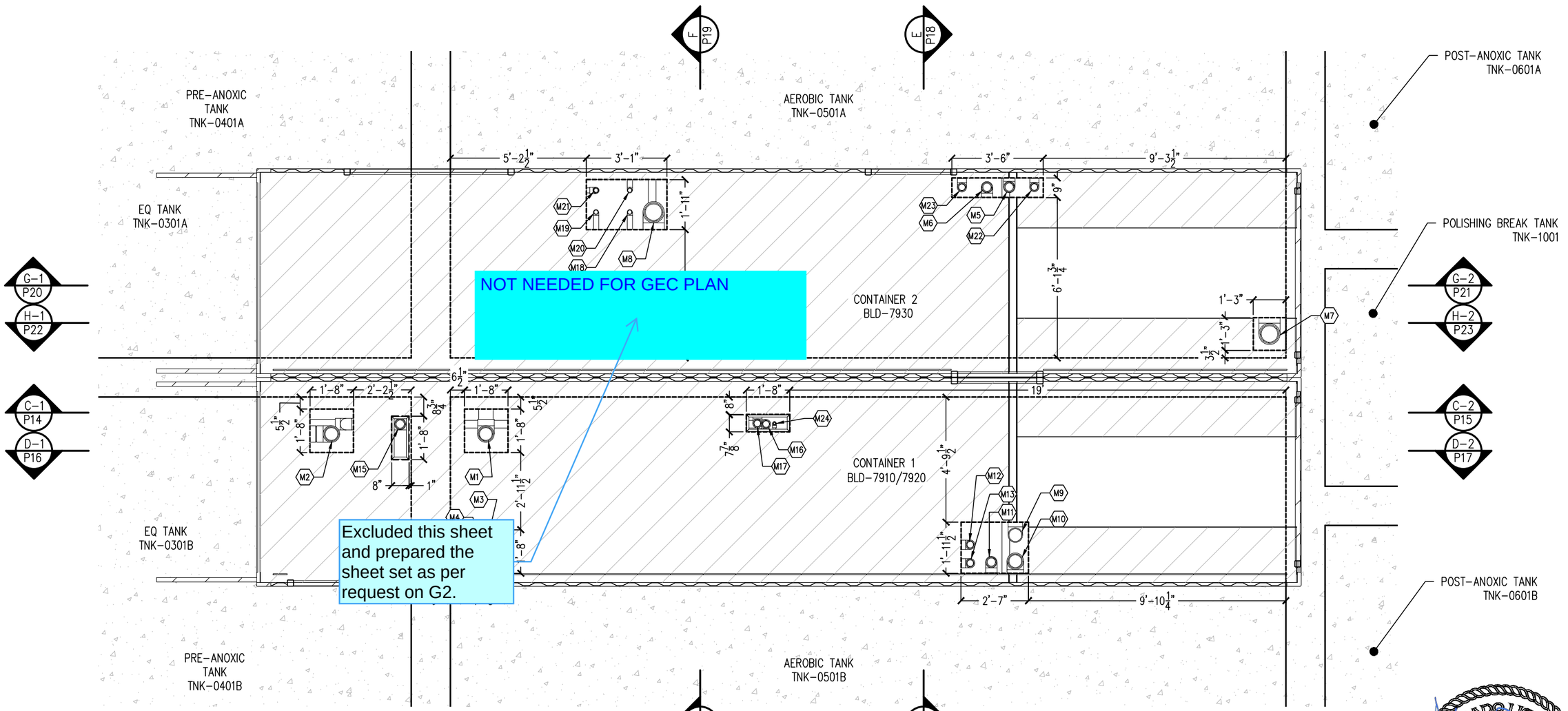
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: CONCRETE TANK LID PLAN

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/8" = 1'-0"	P3

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.



BUILDING FLOOR PENETRATION PLAN
1/4" = 1'-0"

COLORADO LICENSED ADAM SOMMERS 38169 2/13/26 PROFESSIONAL ENGINEER

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PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: BUILDING FLOOR PENETRATION PLAN

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P4

TANK COATINGS

1) INFLUENT EQ TANK INTERIOR WALLS AND UNDERSIDE OF LID.
   - A) COATING SYSTEM TYPE: EPOXY, SHERWIN WILLIAMS OR EQUAL.
   - B) SURFACE PREPARATION: SSPC-SP 13/NACE 6 WITH A SURFACE PROFILE OF ICRI CSP 5-6.
   - C) FILLER: FILL BUG HOLES, AIR POCKETS AND OTHER VOIDS WITH STEEL-SEAM FT910.
   - D) FINISH: DURA-PLATE 6000 REINFORCED EPOXY. DFT 60.0 TO 80.0 MILS.

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.

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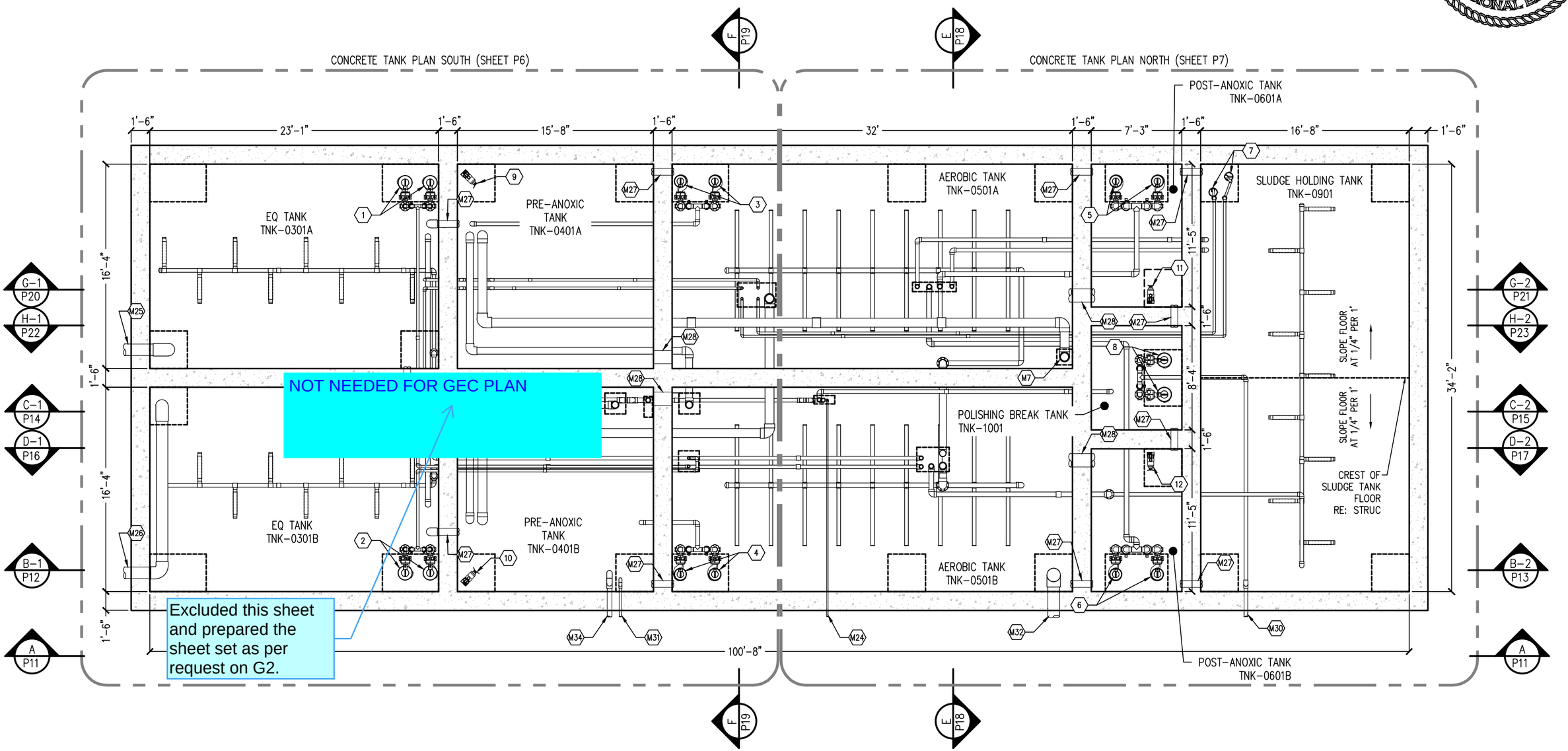

CONCRETE TANK EQUIPMENT PLAN
1/8" = 1'-0"

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
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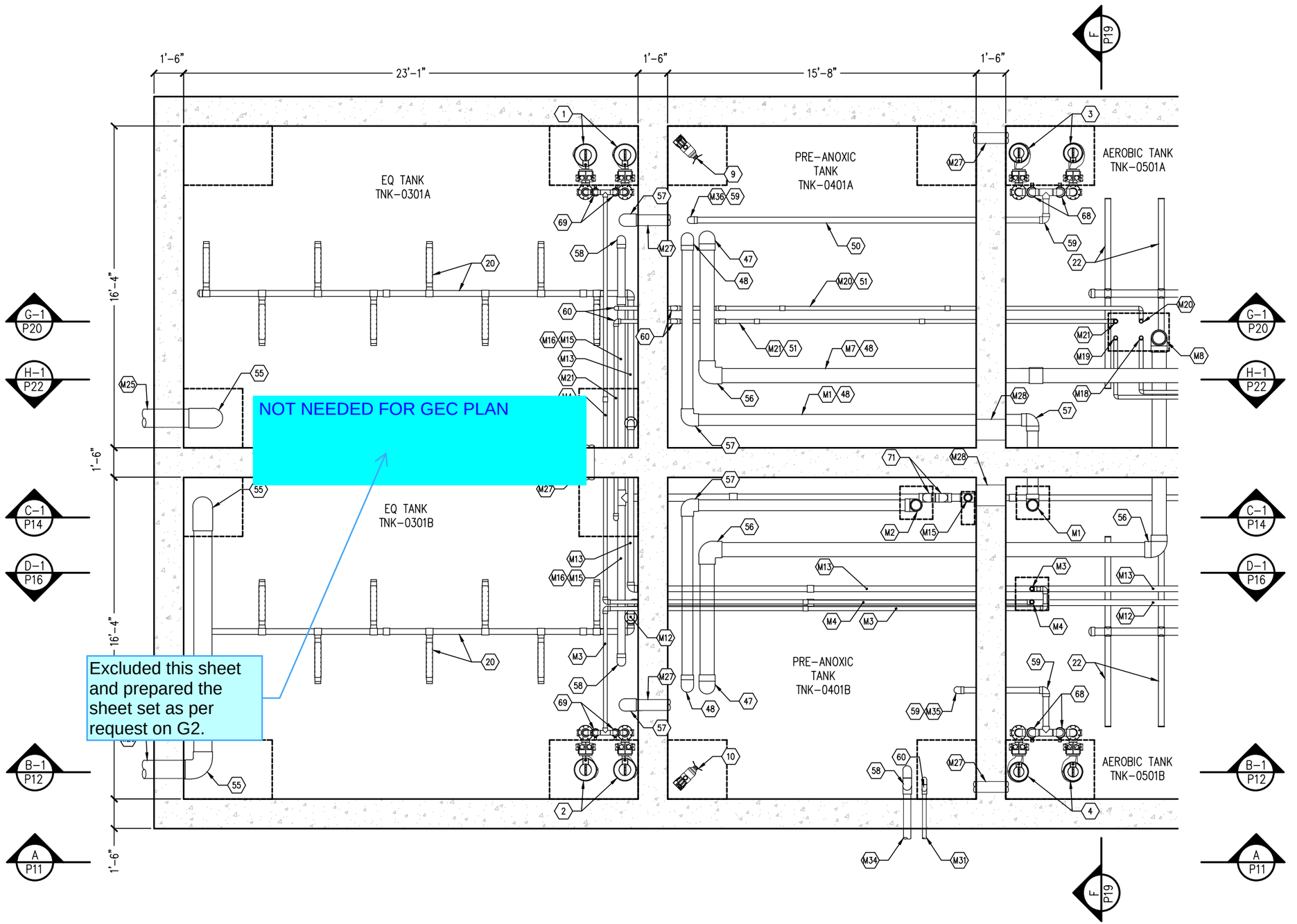
(303) 477-5915

SHEET TITLE: CONCRETE TANK EQUIPMENT PLAN

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/8" = 1'-0"	P5



CONCRETE TANK EQUIPMENT PLAN
3/16" = 1'-0"

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EL PASO COUNTY, COLORADO

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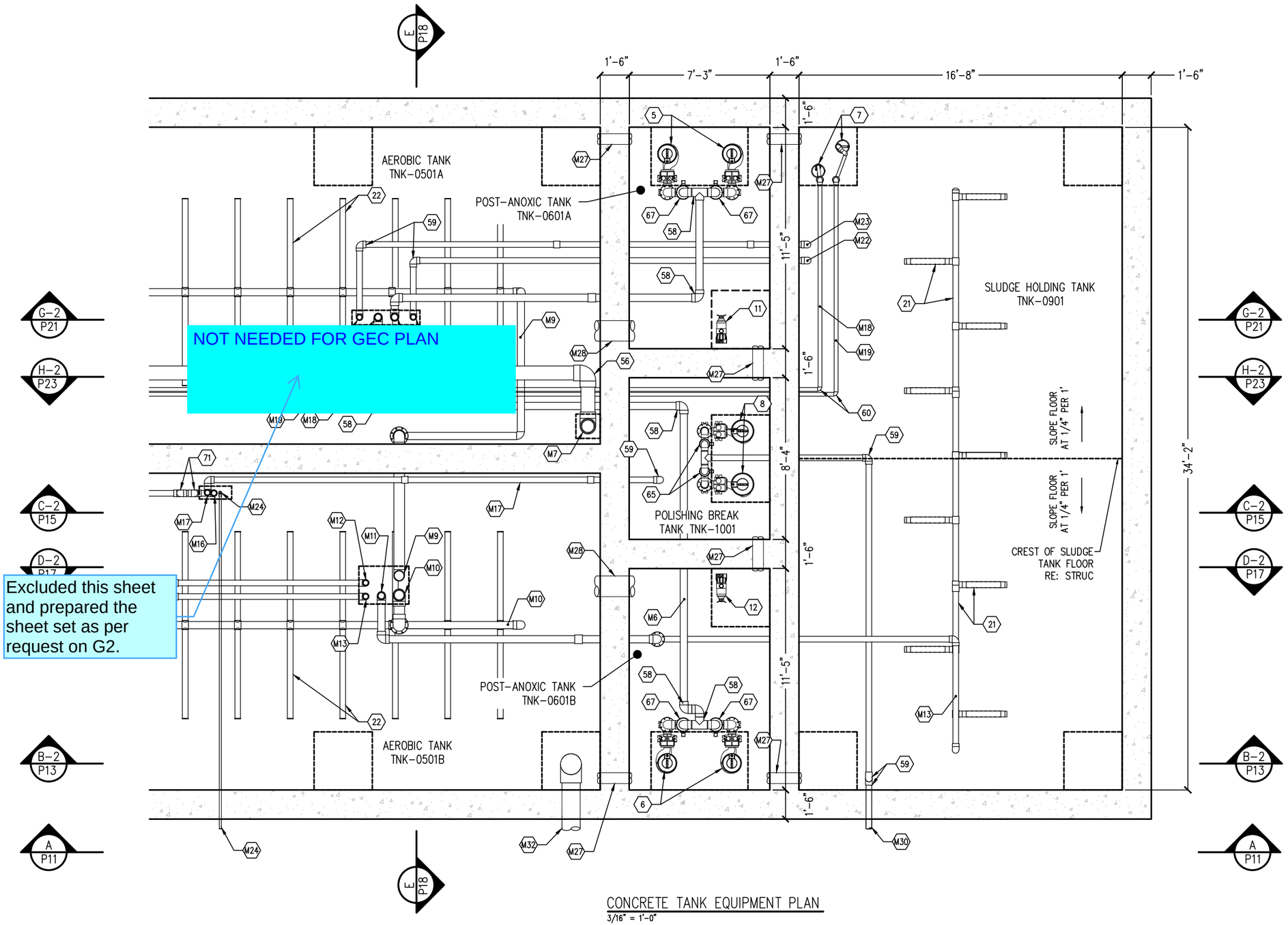
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
CONCRETE TANK EQUIPMENT (SOUTH)

PROJECT NUMBER:	SCALE:	SHEET:
#3774	3/16" = 1'-0"	P6



CONCRETE TANK EQUIPMENT PLAN
3/16" = 1'-0"

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EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: CONCRETE TANK EQUIPMENT (NORTH)

PROJECT NUMBER:	SCALE:	SHEET:
#3774	3/16" = 1'-0"	P7

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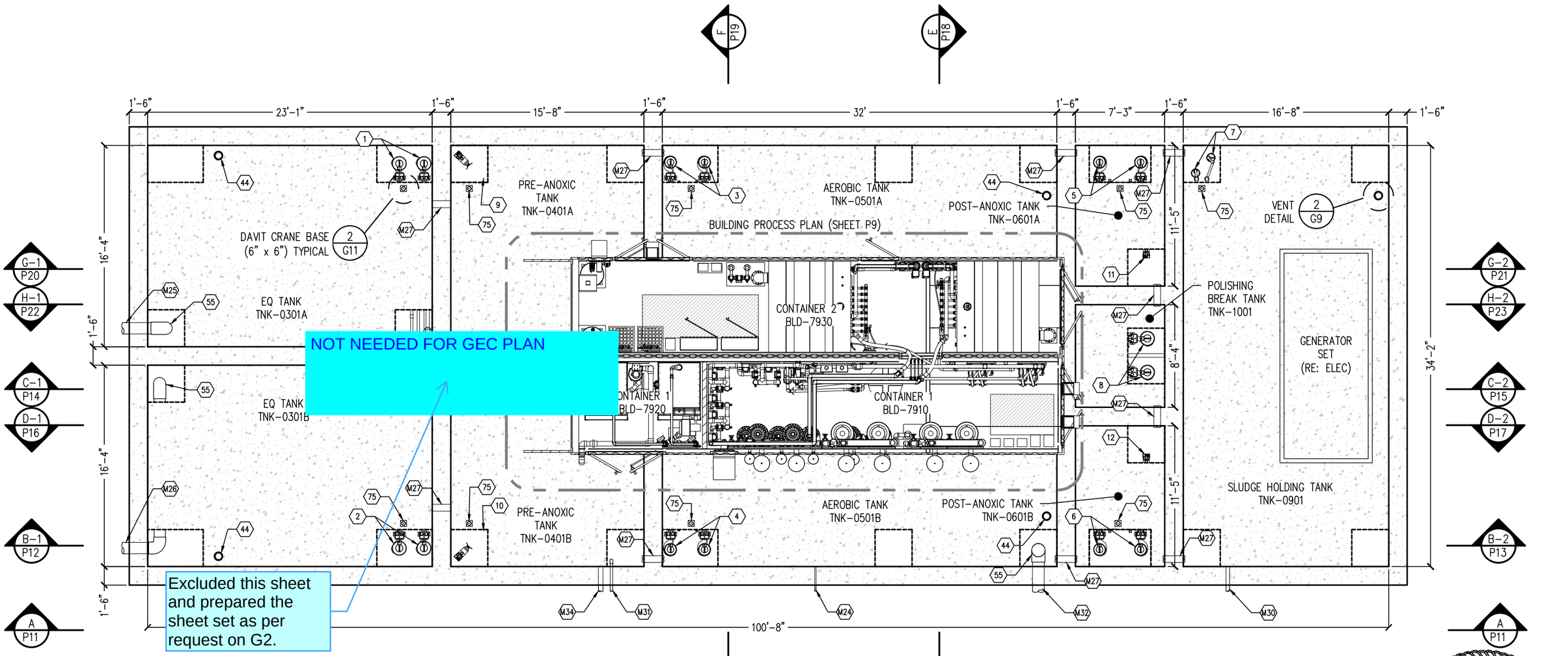
NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.



PROCESS PLAN
1/8" = 1'-0"

COLORADO LICENSED ADAM SOMMERS 38169 PROFESSIONAL ENGINEER 2/13/26

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ENGINEER: AQUAWORKS DBO, INC.
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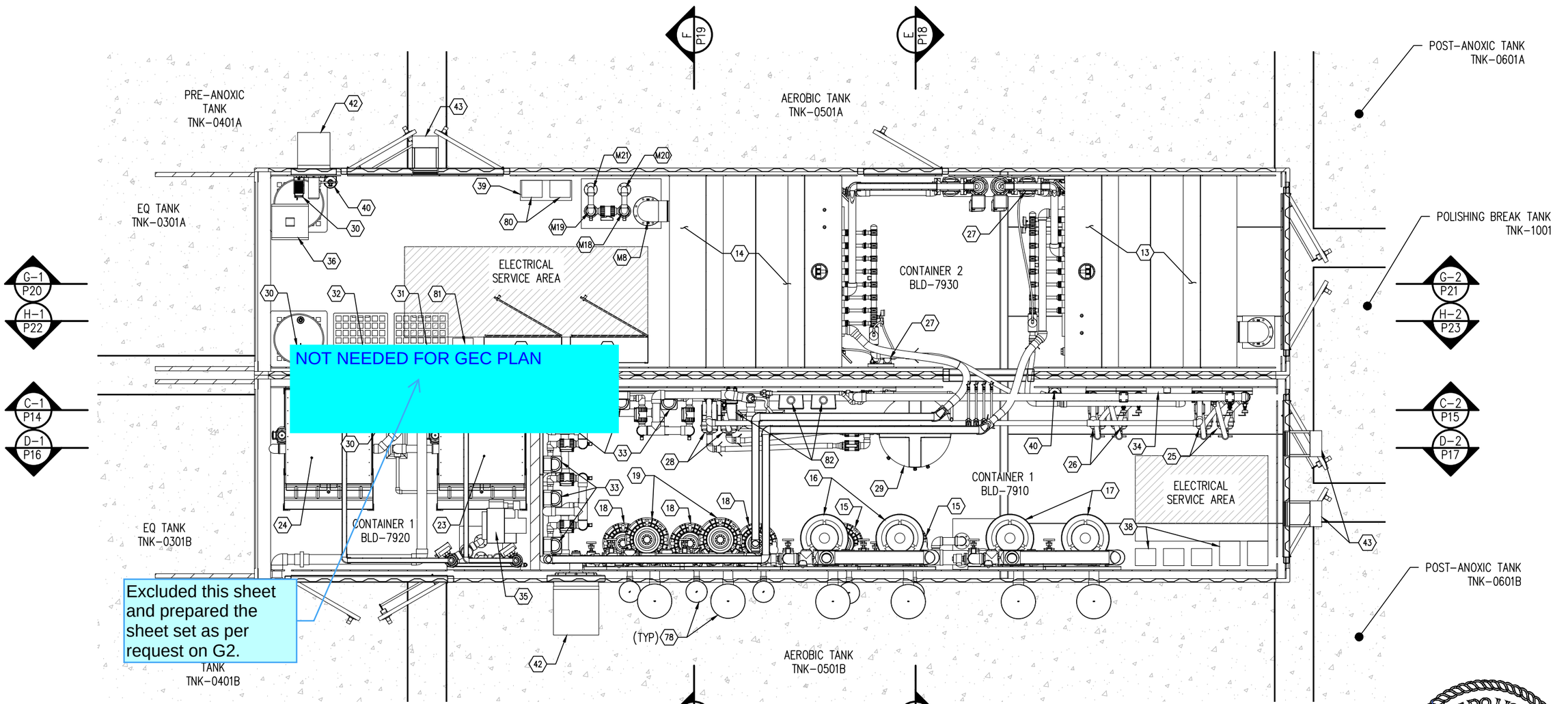
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS PLAN

PROJECT NUMBER: #3774
SCALE: 1/8" = 1'-0"
SHEET: P8

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
2) CONTAINER ROOM BLD-7920 IS A CLASS 1, DIVISION 2, CLASSIFIED SPACE.



PROCESS PLAN
1/4" = 1'-0"

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EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
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DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: BUILDING PROCESS PLAN

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P9

NOTES:

1. *DENOTES EQUIPMENT & MATERIALS SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR. REFERENCE NEWTERRA SUBMITTAL FOR CONFIRMATION OF CONTRACTOR SUPPLIED VS VENDOR SUPPLIED MATERIALS/EQUIPMENT.
2. PIPE CONNECTION (M DESIGNATION) NOTES LOCATED ON SHEET P2.
3. REMOVE ALL EXISTING EQUIPMENT, MATERIALS, AND ITEMS FROM BUILDING.
4. VERIFY CAMLOCK TYPE WITH CHEMICAL DELIVERY PRIOR TO INSTALLATION FOR COORDINATION OF STANDARD CAMLOCK OR DRY DISCONNECT TYPE.
5. REVIEW EXISTING DOOR CLEARANCES FOR COMPATIBLITY OF EQUIPMENT. REPLACE DOOR IF CLEARANCES ARE NOT SUFFICIENT. MINIMUM DOOR CLEARANCE DIMENSIONS REQUIRED TO PLACE EQUIPMENT SKIDS THROUGH DOOR. 70 INCH CLEAR REQUIRED FOR FILTER AND CHEMICAL FEED TANKS. INTERIOR CEILING CLEARANCE TO BE MINIMUM OF 9 FT TO ACCOMODATE HEIGHT OF FILTERS. RE NEWTERRA SUBMITTAL FOR MORE INFORMATION.
6. WRAP HEAT TRACING CABLE (8 WATTS/FT, RAYCHEM OR EQUAL) AROUND 3/8" CAUSTIC CARRIER TUBING, INSTALL 3/4" THICK INSULATION AROUND HEAT CABLE & CARRIER TUBE. PULL INSULATED ASSEMBLY THROUGH THE 4" CONDUIT. INSTALL 20A BREAKER AND THERMOSTAT FOR HEAT TRACING.
7. POTABLE WATER LINE TO BE MIN 5' BELOW GRADE ELEVATIONS (RE: CIVIL).
8. REFERENCE NEWTERRA SUBMITTAL AND P&ID FOR NEWTERRA SCOPE OF SUPPLY. CONTRACTOR TO PROVIDE ALL MATERIALS NOT NOTED AS SUPPLIED BY NEWTERRA.
9. ALL MATERIALS AND EQUIPMENT WITHIN THIS BUILDING SUPPLIED BY NEWTERRA IS SHIPPED LOOSE WITH INSTALLATION BY CONTRACTOR.

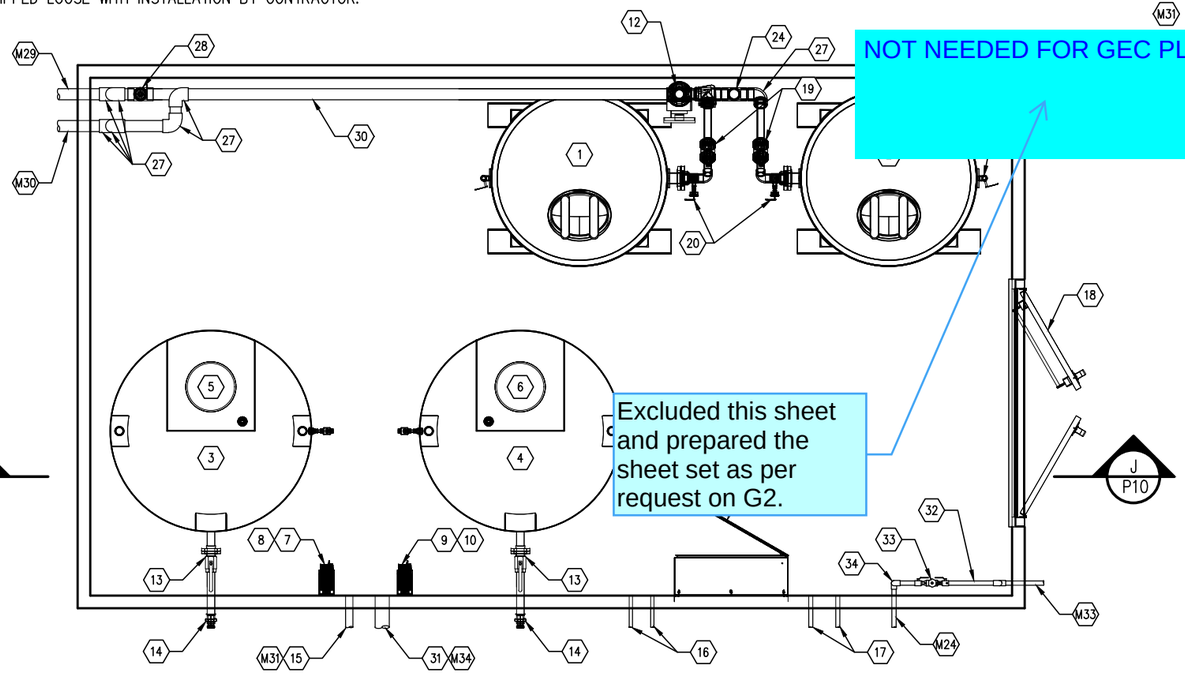
PROCESS NOTES (SHEET P10 ONLY):

1. EFFLUENT POLISHING FILTER A (FLT-1101A)
2. EFFLUENT POLISHING FILTER B (FLT-1101B)
3. 1,000 GAL HDPE CHEMICAL TANK (T-6101) (ALUM)
4. 1,000 GAL HDPE CHEMICAL TANK (T-6102) (CAUSTIC)
5. LEVEL TRANSMITTER (LT-6101)
6. LEVEL TRANSMITTER (LT-6102)
7. CHEMICAL FEED PUMP (P-6101A) (ALUM)
8. CHEMICAL FEED PUMP (P-6101B) (ALUM)
9. CHEMICAL FEED PUMP (P-6102A) (CAUSTIC)
10. CHEMICAL FEED PUMP (P-6102B) (CAUSTIC)
11. RELOCATE EXISTING POWER PANEL*
12. 3" MAGNETIC FLOW METER (FIT-1101)
13. 2" SST FLANGE W/ 2" SST FULL PORT BALL VALVE
14. 2" CAMLOCK COUPLING W/ DUSTCAP (SEE NOTE 3)*
15. 2" PVC SCH 40 CASING CONDUIT W/ 3/8" TUBING CHEMICAL FEED TO WWTP*
16. CONTROL CONDUITS FROM WWTP (RE: ELEC)*
17. POWER CONDUITS FROM WWTP (RE: ELEC)*
18. PROPOSED DOUBLE MAN DOOR (SEE NOTE 4)*
19. 2" PVC BALL VALVE
20. 1/2" SAMPLE TAP W/ PRESSURE GAUGE ASSEMBLY
21. BACKPRESSURE VALVE
23. MANUAL AIR VENT W/ 1" SST BALL VALVE
24. 3" TEE, PVC SCH 80*
25. 2" VENT FLANGE, VENT TO EXTERIOR W/ PVC SCH 80*
26. TUBING 1/4" OD, ROUTE CHEM PUMP RELIEF VALVE BACK TO TANK*
27. 3" 90 ELBOW, PVC SCH 80*
28. 3" 90 ELBOW, HDPE DR 11*
29. 3" HDPE DR 11*
30. 3" PVC SCH 80*
31. 4" PVC SCH 40 CASING W/ 3/8" TUBING & HEAT TRACE (SEE NOTE 5)*
32. 1" HDPE DR 11 POTABLE WATER
33. 1" REDUCED PRESSURE ZONE ASSEMBLY BACKFLOW PREVENTER (WATTS)
34. 1" 90 ELBOW, HDPE DR 11

PIPING CONNECTION NOTES:

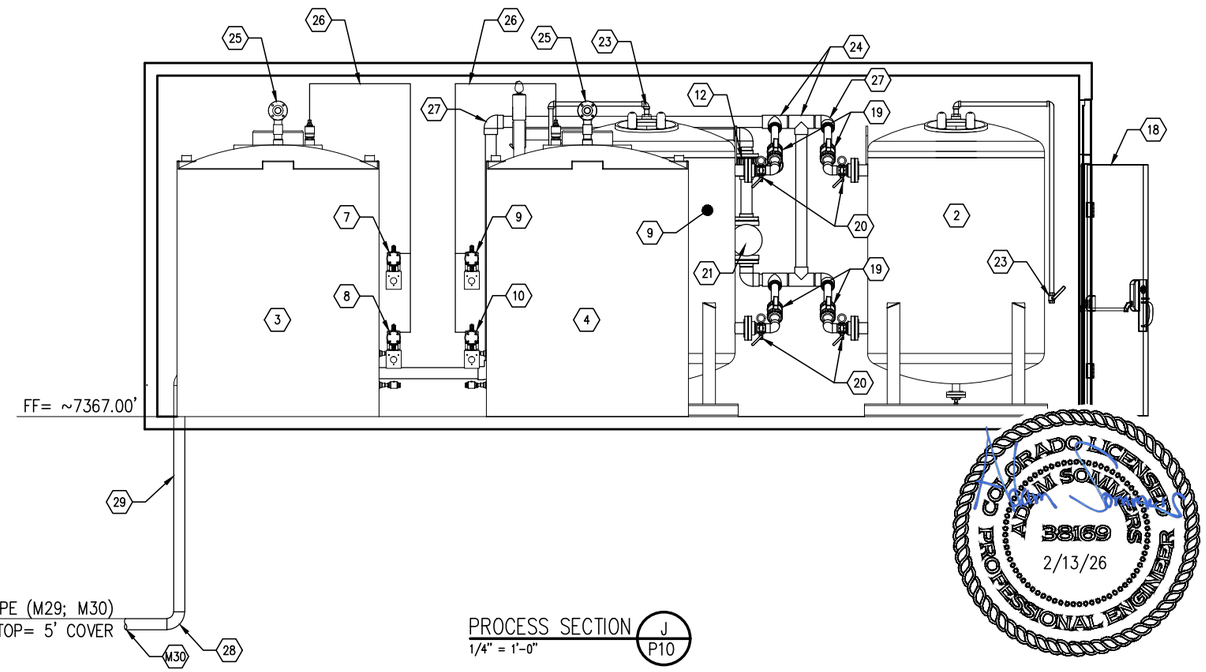
M24. 1" NON-POTABLE WATER FROM BACKFLOW PREVENTER (REPURPOSED BUILDING) TO WWTP
M29. 3" POLISHING FILTER DISCHARGE (REPURPOSED BUILDING) TO EFFLUENT DISCHARGE MANHOLE
M30. 3" FILTER FEED PUMPS (P-1001A/B) TO OFFSITE POLISHING FILTERS (REPURPOSED BUILDING)
M31. 2" ALUM CASING PIPE TO OFFSITE CHEMICAL FEED (REPURPOSED BUILDING)
[illegible]FROM CITY TO RPZA BACKFLOW PREVENTER (REPURPOSED BUILDING)
[illegible]PIPE TO OFFSITE CHEMICAL FEED (REPURPOSED BUILDING)

NOT NEEDED FOR GEC PLAN



Excluded this sheet and prepared the sheet set as per request on G2.

PROCESS PLAN
1/4" = 1'-0"



PROCESS SECTION J P10
1/4" = 1'-0"

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38169
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PROFESSIONAL ENGINEER

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PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

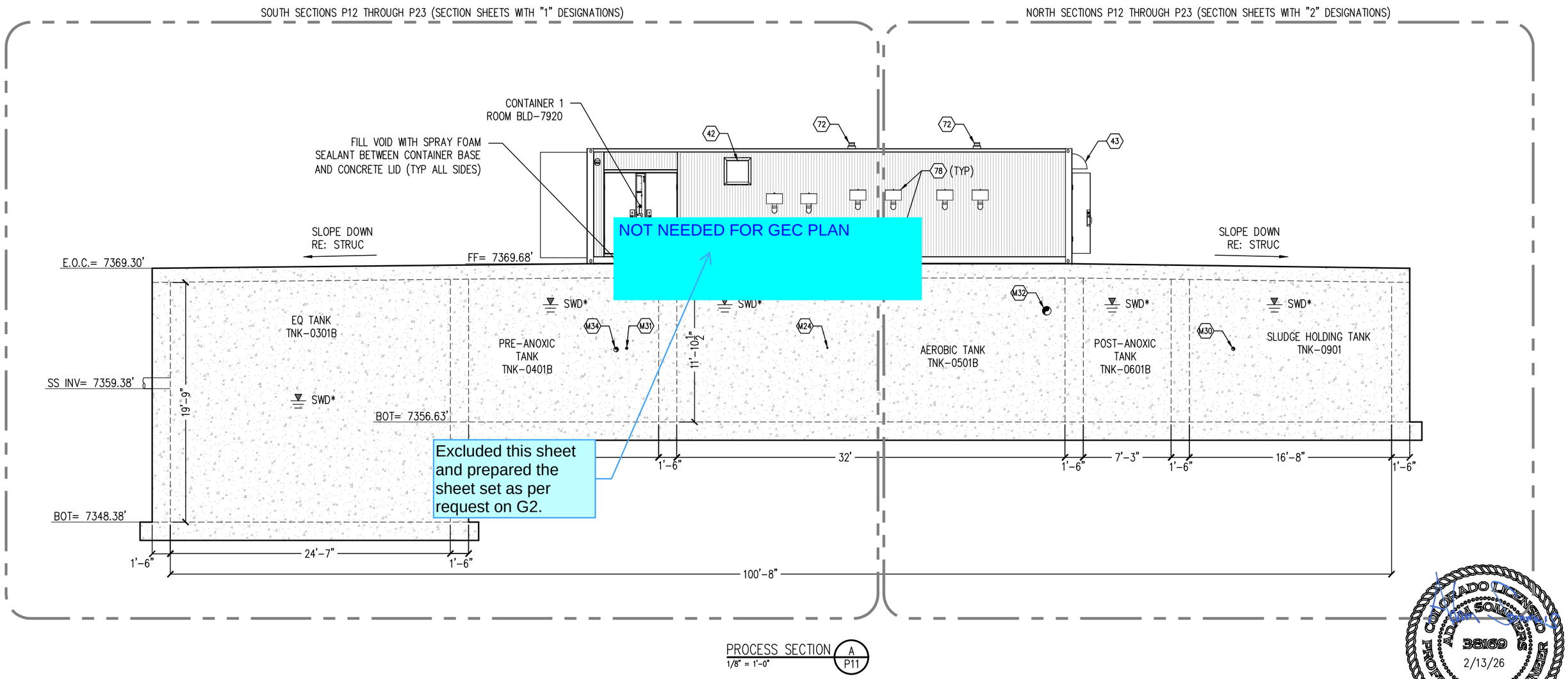
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
POLISHING FILTER BUILDING (EXISTING) PLAN & SECTION

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P10

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
2) * DENOTES ALL SIDEWATER DEPTHS ARE 10' ABOVE BOTTOM OF RESPECTIVE TANK FLOOR.



PROCESS SECTION A / P11
1/8" = 1'-0"

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

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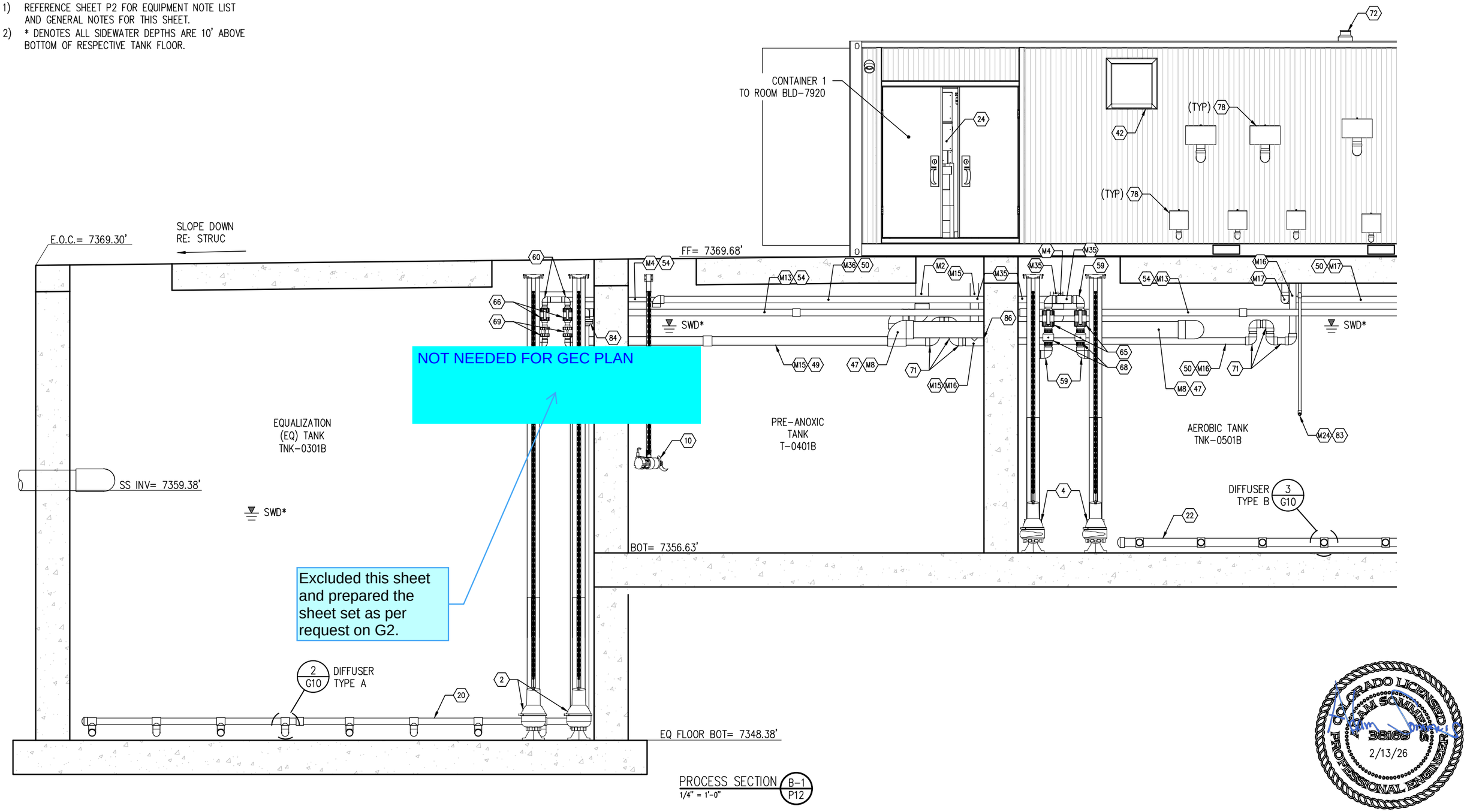
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS SECTION A

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/8" = 1'-0"	P11

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
2) * DENOTES ALL SIDEWATER DEPTHS ARE 10' ABOVE BOTTOM OF RESPECTIVE TANK FLOOR.



PROCESS SECTION B-1 / P12
1/4" = 1'-0"

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2/13/26
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EL PASO COUNTY, COLORADO

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3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS SECTION B-1

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P12

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
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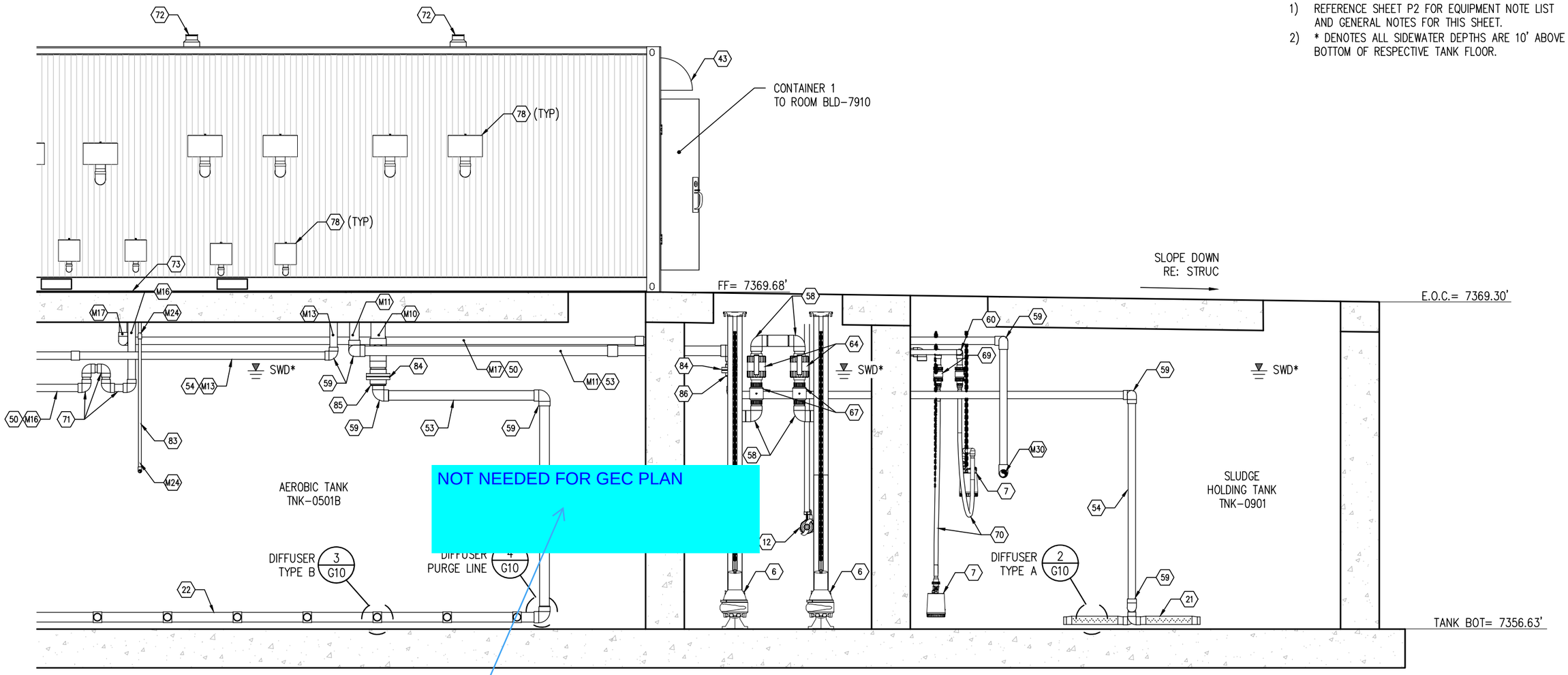

NOT NEEDED FOR GEC PLAN

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PROCESS SECTION B-2
1/4" = 1'-0"

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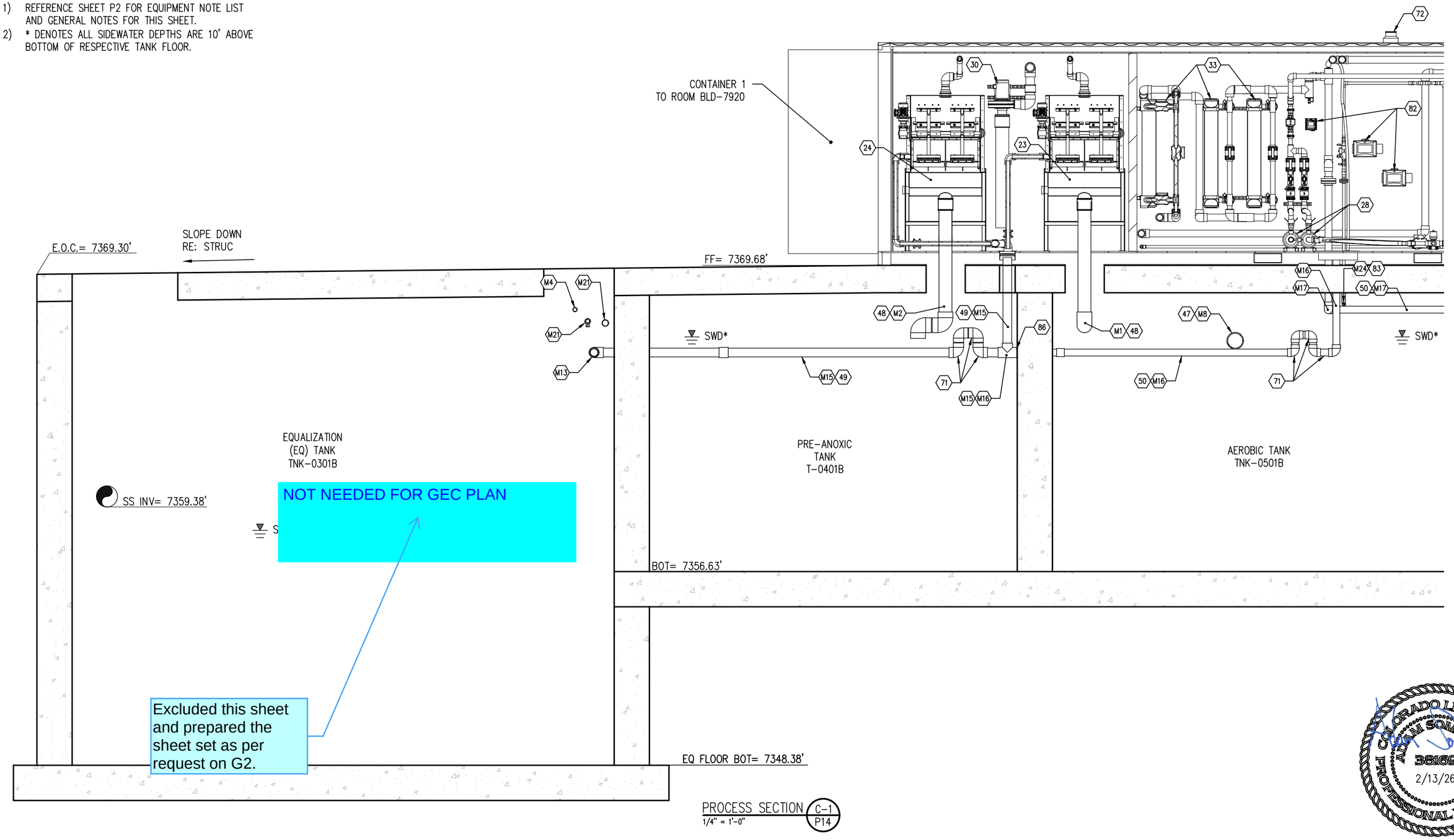
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS SECTION B-2

PROJECT NUMBER: #3774
SCALE: 1/4" = 1'-0"
SHEET: P13

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
2) * DENOTES ALL SIDEWATER DEPTHS ARE 10' ABOVE BOTTOM OF RESPECTIVE TANK FLOOR.



PROCESS SECTION C-1
1/4" = 1'-0"

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ADAM SOMMERS
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2/13/26
PROFESSIONAL ENGINEER

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EL PASO COUNTY, COLORADO

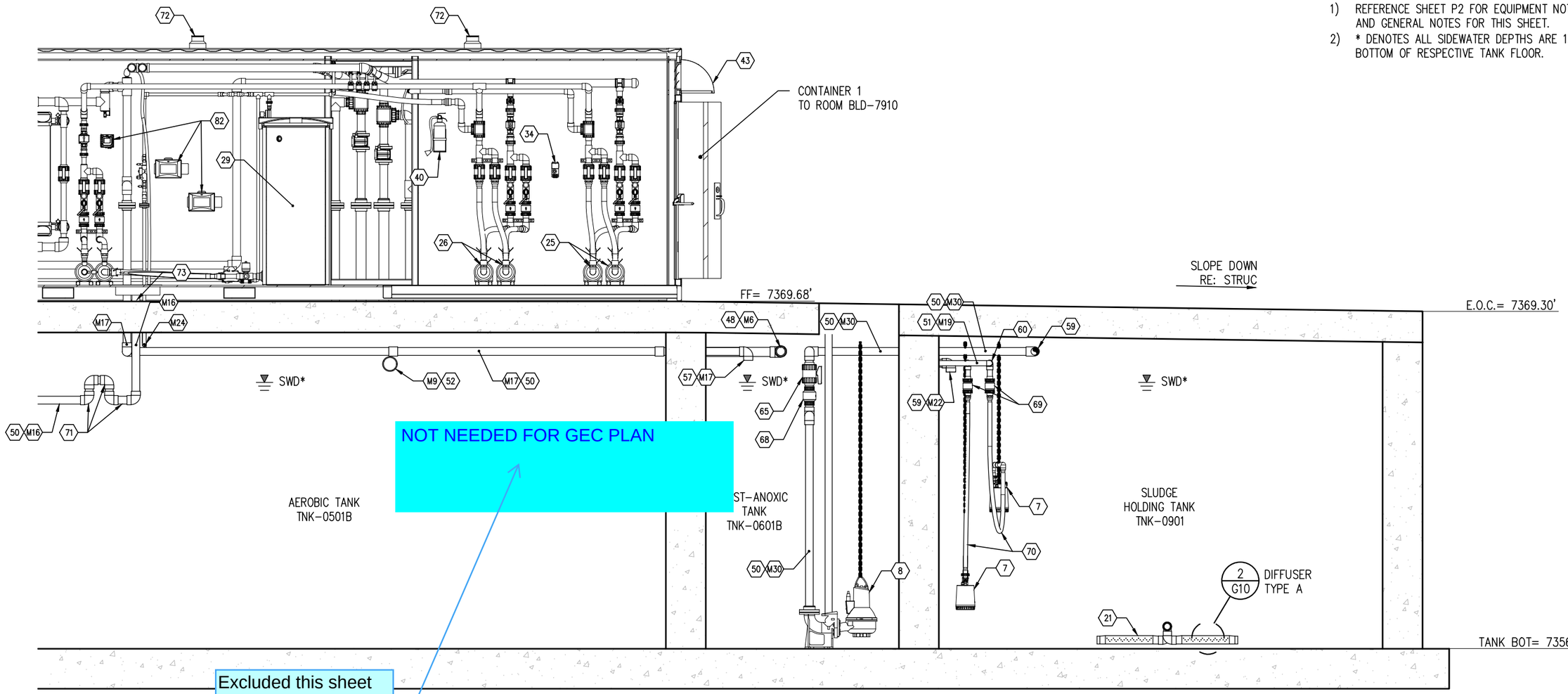
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
PROCESS SECTION C-1

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P14

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
2) * DENOTES ALL SIDEWATER DEPTHS ARE 10' ABOVE BOTTOM OF RESPECTIVE TANK FLOOR.



NOT NEEDED FOR GEC PLAN

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PROCESS SECTION C-2 / P15
1/4" = 1'-0"

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EL PASO COUNTY, COLORADO

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(303) 477-5915

SHEET TITLE: PROCESS SECTION C-2

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P15

NOTES:

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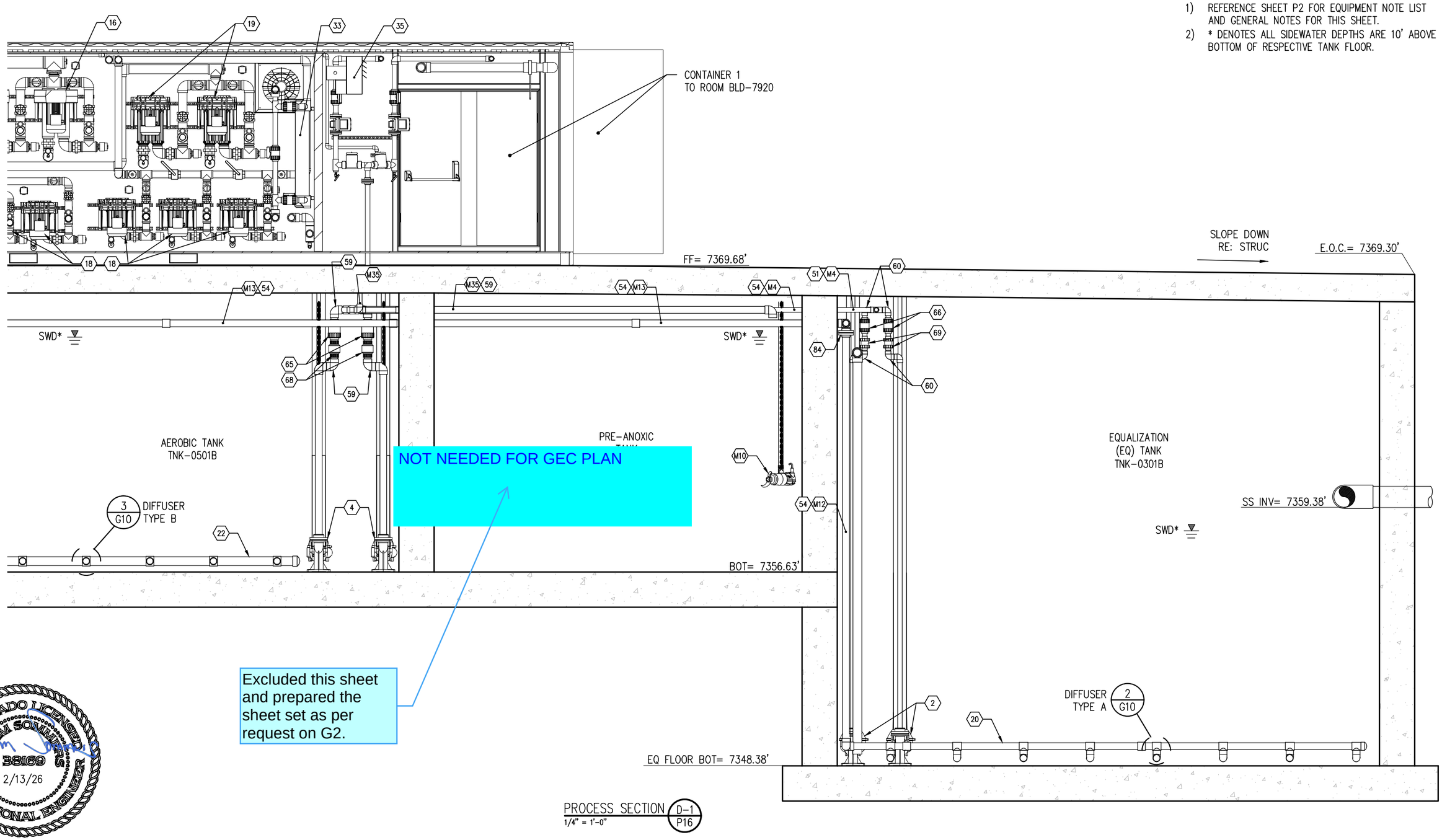

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PROCESS SECTION D-1
1/4" = 1'-0"

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3252 WILLIAMS STREET
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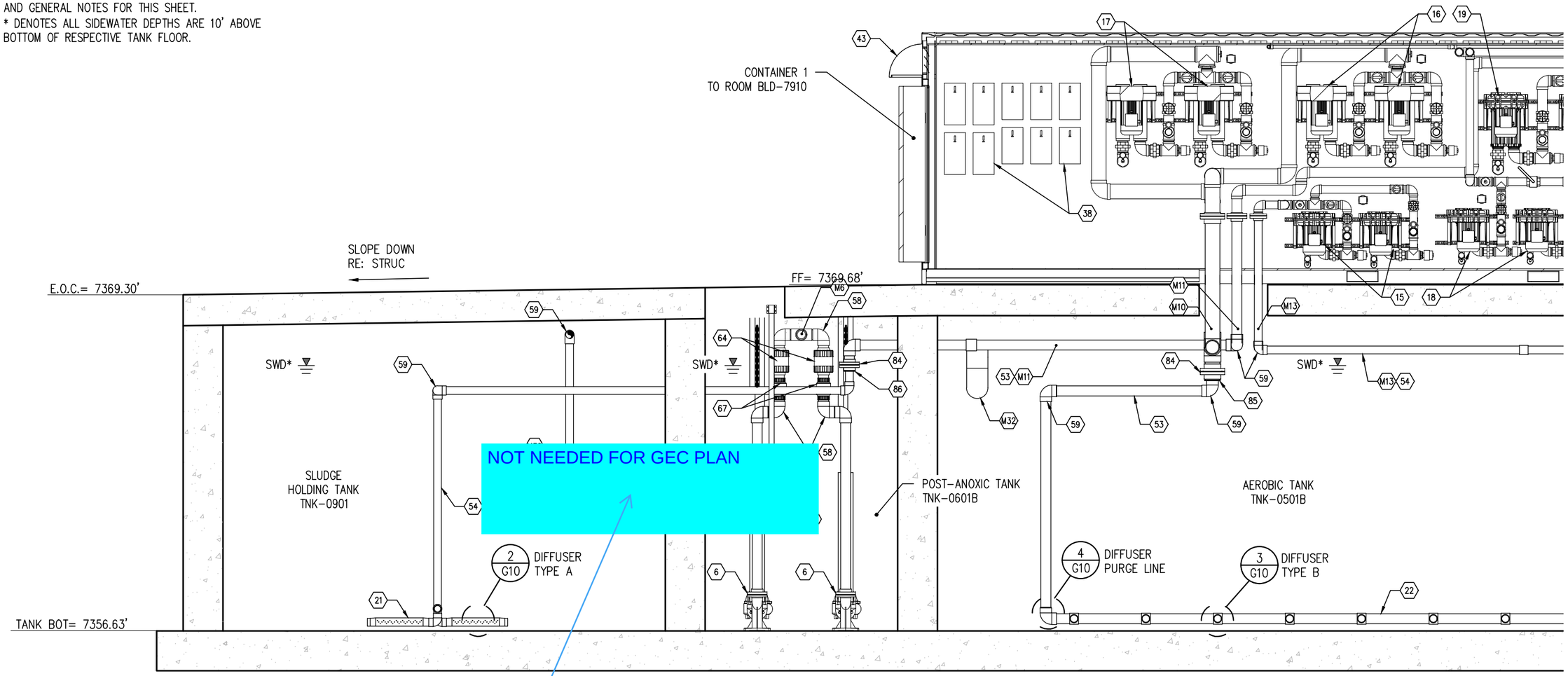
(303) 477-5915

SHEET TITLE:
PROCESS SECTION D-1

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P16

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
2) * DENOTES ALL SIDEWATER DEPTHS ARE 10' ABOVE BOTTOM OF RESPECTIVE TANK FLOOR.



NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

PROCESS SECTION D-2 / P17
1/4" = 1'-0"

COLORADO LICENSED
ADAM SOMMERS
38169
PROFESSIONAL ENGINEER
2/13/26

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PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

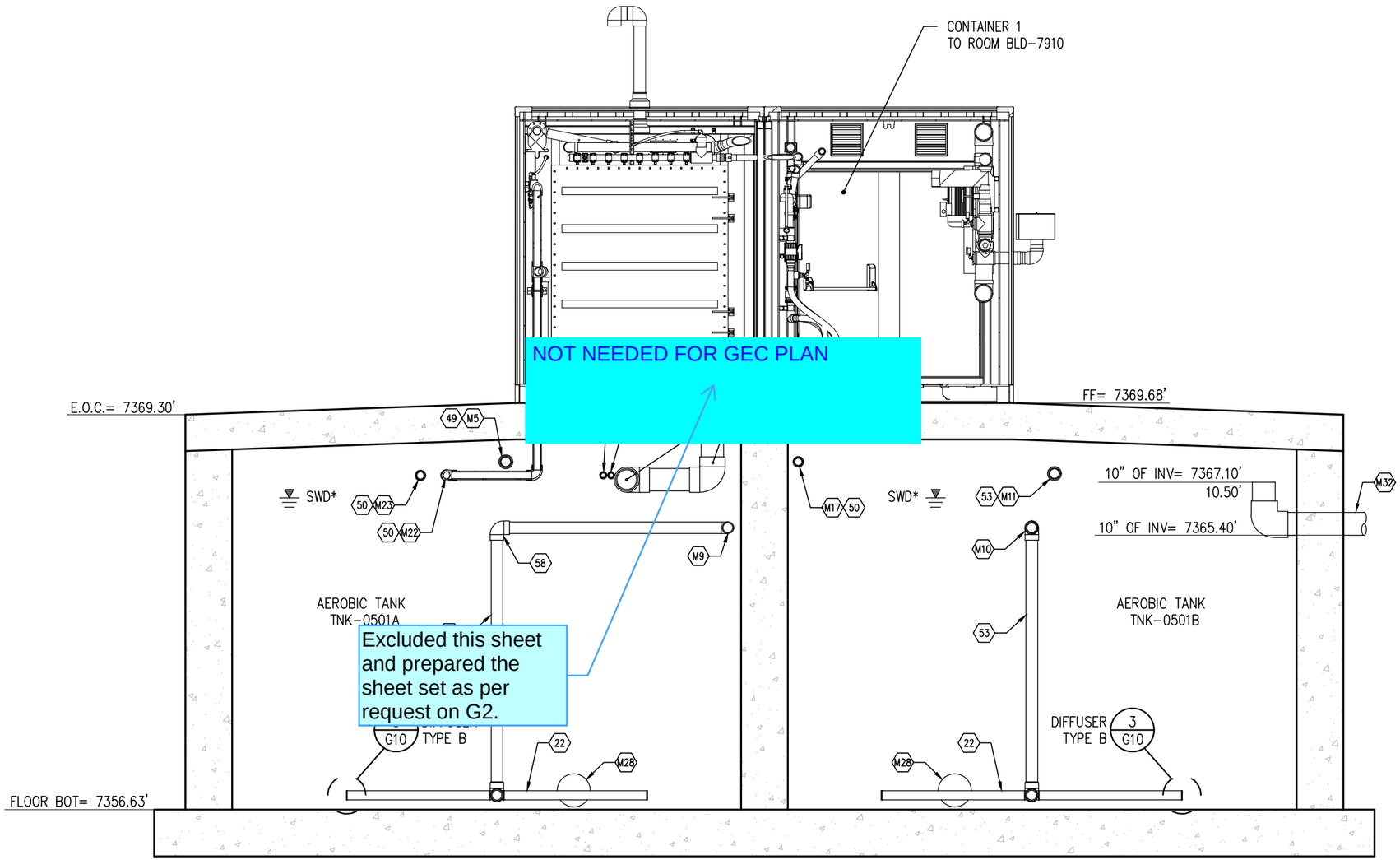
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS SECTION D-2

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P17

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
2) * DENOTES ALL SIDEWATER DEPTHS ARE 10' ABOVE BOTTOM OF RESPECTIVE TANK FLOOR.



PROCESS SECTION E
1/4" = 1'-0"
P18

COLORADO LICENSED ADAM SOMMERS PROFESSIONAL ENGINEER 38169 2/13/26

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

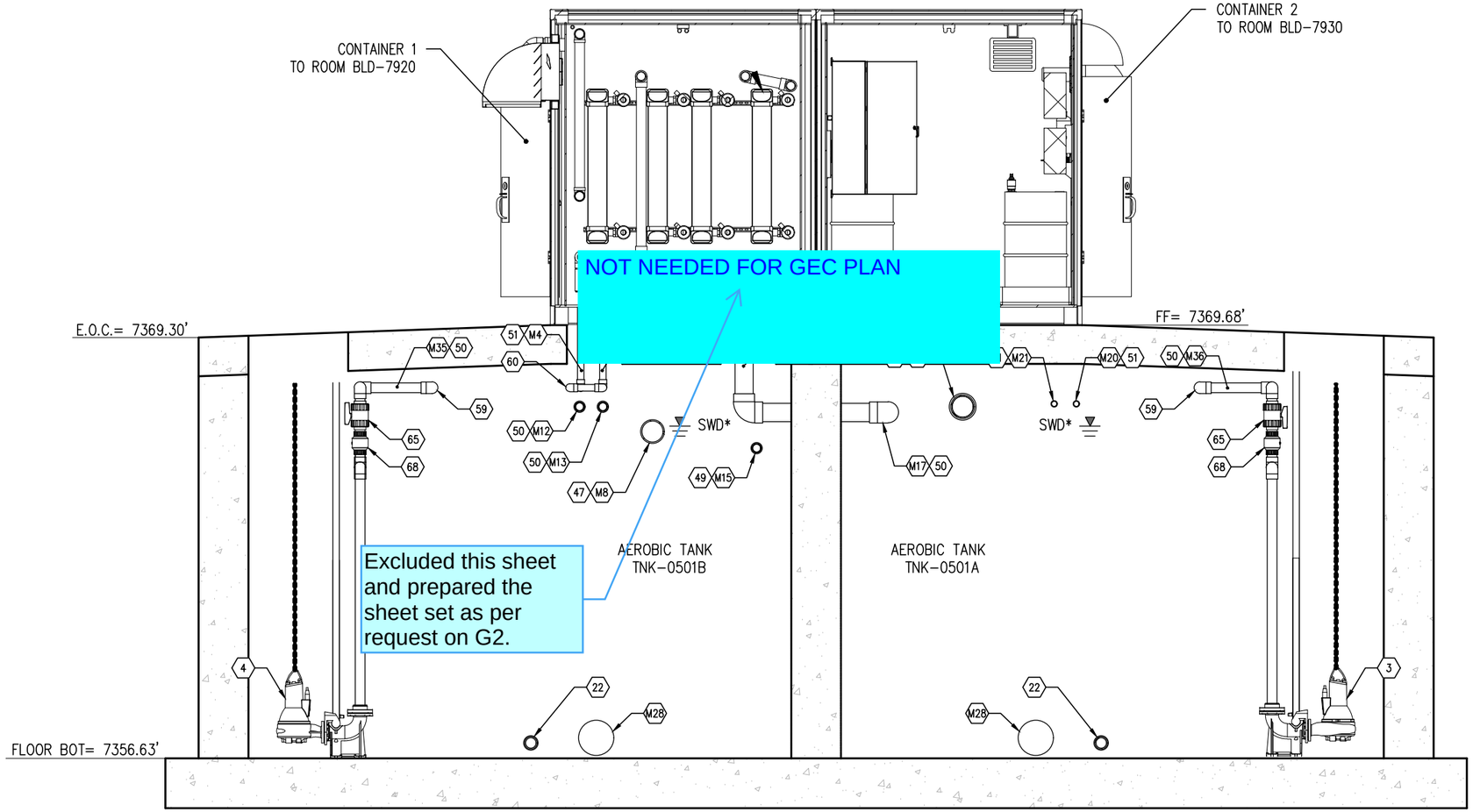
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS SECTION E

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P18

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
2) * DENOTES ALL SIDEWATER DEPTHS ARE 10' ABOVE BOTTOM OF RESPECTIVE TANK FLOOR.



PROCESS SECTION F
1/4" = 1'-0" P19

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

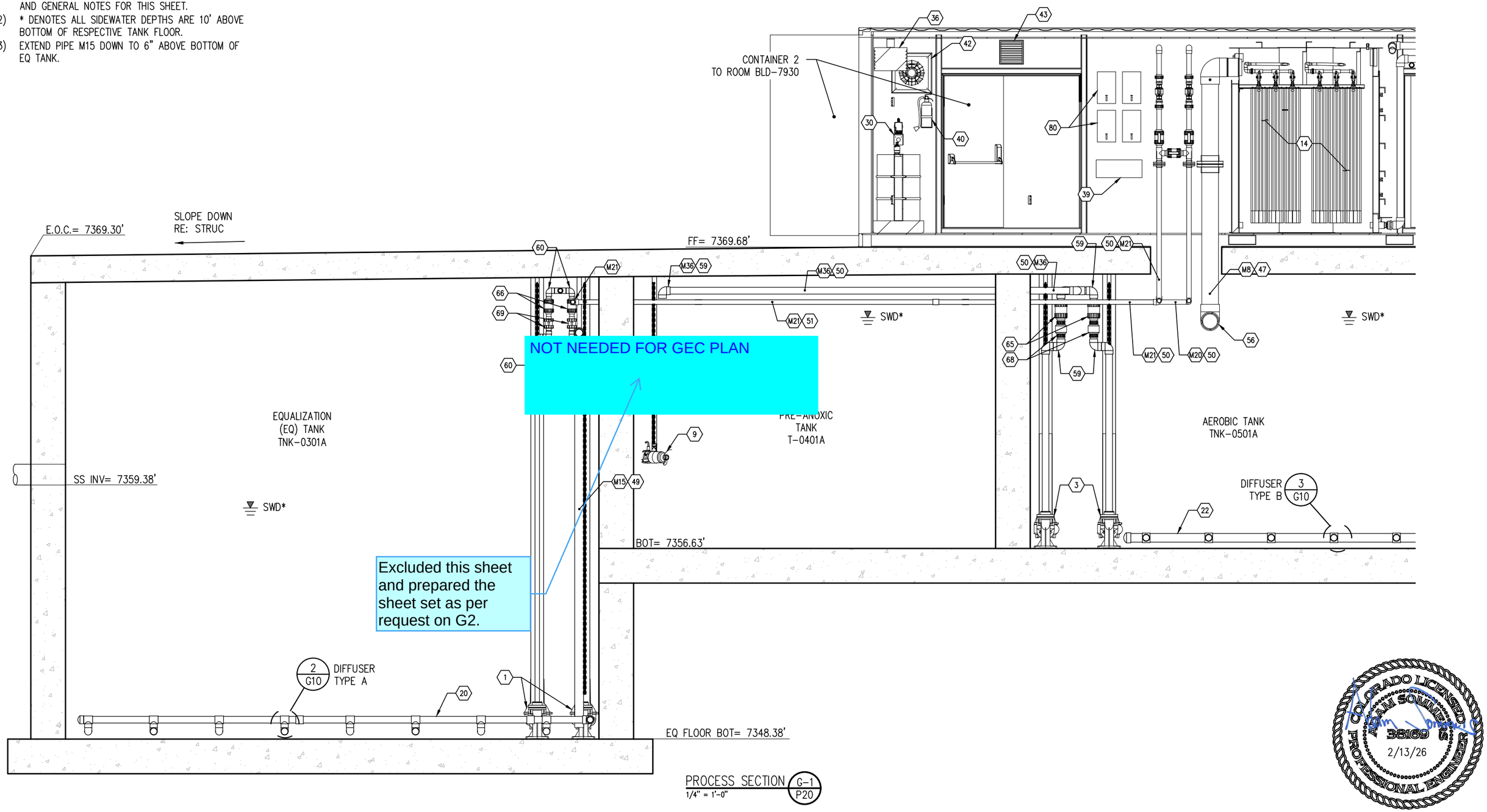
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS SECTION F

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P19

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
2) * DENOTES ALL SIDEWATER DEPTHS ARE 10' ABOVE BOTTOM OF RESPECTIVE TANK FLOOR.
3) EXTEND PIPE M15 DOWN TO 6" ABOVE BOTTOM OF EQ TANK.



PROCESS SECTION G-1 / P20
1/4" = 1'-0"

COLORADO LICENSED
WILLIAM SOMMERS
38169
PROFESSIONAL ENGINEER
2/13/26

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DESIGN BUILD OPERATE

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

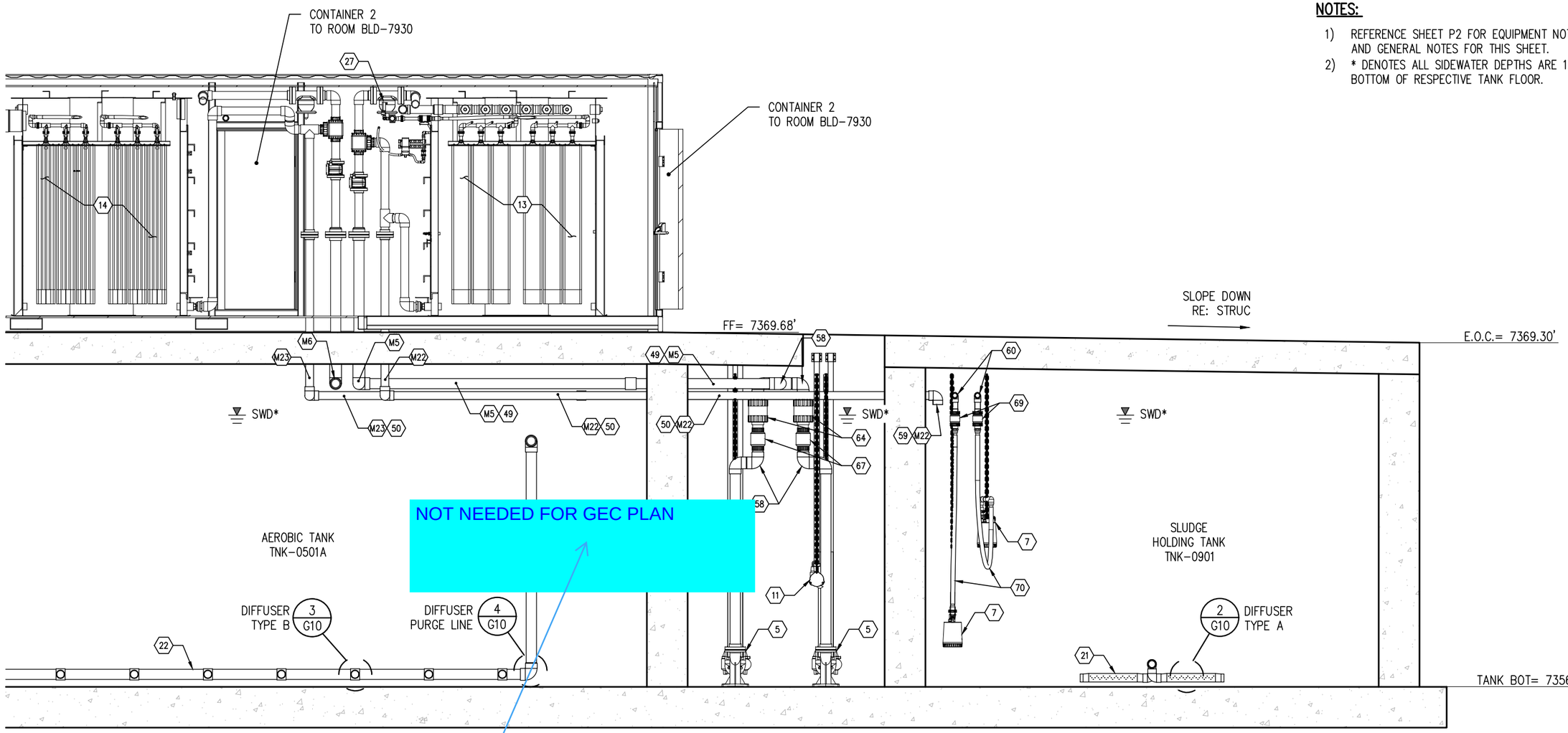
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS SECTION G-1

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P20

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
2) * DENOTES ALL SIDEWATER DEPTHS ARE 10' ABOVE BOTTOM OF RESPECTIVE TANK FLOOR.



NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

PROCESS SECTION G-2 / P21
1/4" = 1'-0"

COLORADO LICENSED
ADAM SOMMERS
38169
PROFESSIONAL ENGINEER
2/13/26

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

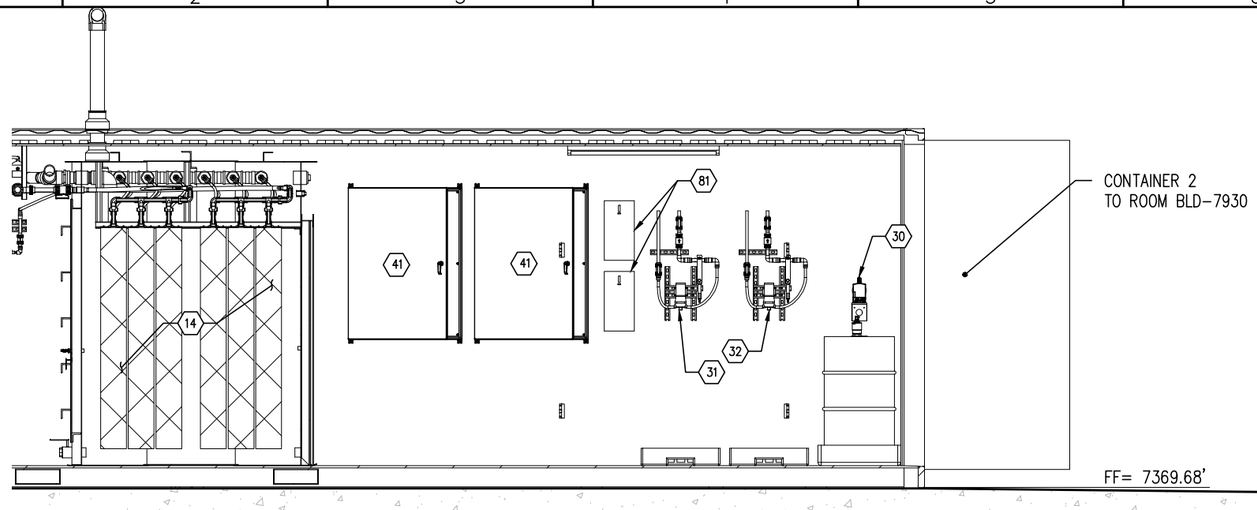
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS SECTION G-2

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P21

NOTES:

1) REFERENCE SHEET P2 FOR EQUIPMENT NOTE LIST AND GENERAL NOTES FOR THIS SHEET.
2) * DENOTES ALL SIDEWATER DEPTHS ARE 10' ABOVE BOTTOM OF RESPECTIVE TANK FLOOR.



FF= 7369.68'

SLOPE DOWN
RE: STRUC

E.O.C.= 7369.30'

SWD*

NOT NEEDED FOR GEC PLAN

SWD*

M4 51
M2 50
84
M15 M16

AERIOBIC TANK
TNK-0501A

PRE-ANOXIC
TANK
T-0401A

EQUALIZATION
(EQ) TANK
TNK-0301A

M25

SS INV= 7359.38'

M13 54

SWD*

3
G10
DIFFUSER
TYPE B

22

Excluded this sheet and prepared the sheet set as per request on G2.

20

EQ FLOOR BOT= 7348.38'

PROCESS SECTION H-1
1/4" = 1'-0" P22

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
PROCESS SECTION H-1

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P22

NOTES:

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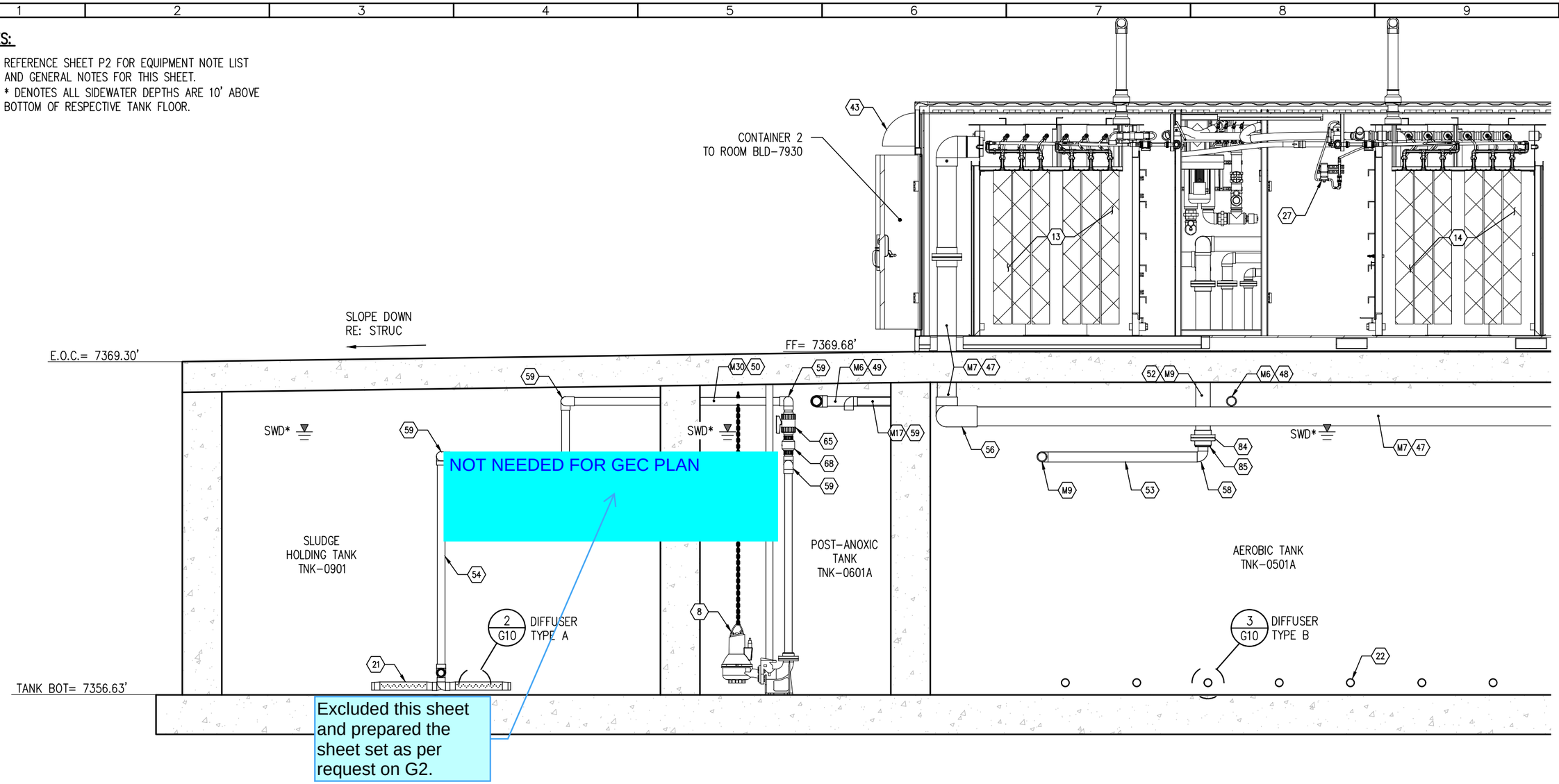

PROCESS SECTION H-2 / P23
1/4" = 1'-0"

COLORADO LICENSED ADAM SOMMERS 38169 2/13/26 PROFESSIONAL ENGINEER

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: PROCESS SECTION H-2

PROJECT NUMBER:	SCALE:	SHEET:
#3774	1/4" = 1'-0"	P23

VALVES AND PIPING

	NO	NC
BALL VALVE		
GATE VALVE		
GLOBE VALVE		
NEEDLE VALVE		
SLIDE VALVE		
SOLENOID VALVE		
BUTTERFLY VALVE		
SWING CHECK VALVE		
WAFER CHECK VALVE		
SPRING CHECK VALVE		
WYE STRAINER		
SAMPLE PORT		
PRESSURE RELIEF VALVE		
VACUUM RELIEF VALVE		
CAMLOCK CONNECTION		
FLEXIBLE CONNECTION		
FLANGED CONNECTION		
REDUCER		
UNION		
ADSORBENT FILTER		
COALESCING FILTER		
PARTICULATE FILTER		
FILTER, SILENCER		
PRESSURE REGULATOR		
REGULATOR W/ FILTER		

EQUIPMENT

AIR STRIPPER

FILTER VESSEL

BAG FILTER

STORAGE TANK

CHEMICAL DRUM, TANK

STANDARD, CONICAL BOTTOM TANK

EQUIPMENT

CLOSED TOP TANK

OPEN TOP TANK

OPEN TOP TANK WITH LID

AIR DIFFUSER ASSEMBLY

NOT NEEDED FOR GEC PLAN

MEMBRANE CASSETTE

NO CLOG SPRAYER

UVLIGHT

ULTRA VIOLET LIGHT

ROTARY SCREEN

FILTER PRESS

Excluded this sheet and prepared the sheet set as per request on G2.

EQUIPMENT

CENTRIFUGAL PUMP –

PROGRESSIVE–CAVITY PUMP –

CHEMICAL–INJECTION PUMP –

CENTRIFUGAL, REGENERATIVE BLOWER –

POSITIVE–DISPLACEMENT BLOWER –

ROTARY–CLAW BLOWER –

LINEAR BLOWER –

LIQUID–RING PUMP –

ISSOR –

ISSOR –

PASSIVE COOLING FINS –

HEAT EXCHANGER –

EDUCTOR –

MAGNETIC FLOW METER –

AVERAGING PITOT TUBE –

VENTURI –

ROTAMETER –

WATER FLOW METER –

INSTRUMENTATION IDENTIFIERS					
	FIRST LETTERS		SUCCEEDING LETTERS		
	MEASURED/INITIATING VARIABLE	VARIABLE MODIFIER	READOUT/PASSIVE FUNCTION	OUTPUT/ACTIVE FUNCTION	FUNCTION MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION				
C	CYCLE	CONTROL		CONTROL	CLOSE
D		DIFFERENCE, DIFFERENTIAL			DEVIATION
E	VOLTAGE		SENSOR, PRIMARY ELEMENT		
F	FLOW, FLOW RATE	RATIO			
G	GAS (LEL)		GLASS, GAUGE, VIEWING DEVICE		
H	HAND			HAND	HIGH
I	CURRENT		INDICATE		
J	POWER		SCAN		
K	TIME, SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MONITOR			MOTORIZED	MIDDLE, INTERMED
N					
O			ORIFICE, RESTRICTION		OPEN
P	PRESSURE		POINT(TESTCONNEC'N)	PNEUMATIC	
Q	QUANTITY	INTEGRATE, TOTALIZE	INTEGRATE TOTALIZE		
R	RADIATION		RECORD		RUN
S	SPEED, FREQUENCY	SAFETY		SWITCH, SOLENOID	STOP
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	
V	VIBRATION, MECHANICAL ANALYSIS, VACUUM			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL, PROBE		
X	UNCLASSIFIED	X–AXIS	ACCESSORY DEVICES, UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE, PRESENCE	Y–AXIS		AUXILIARY DEVICES	
Z	POSITION, DIMENSION	Z–AXIS, SAFETY INSTRUMENTED SYSTEM		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

GENERAL NOTES:

1. WATER FLOW METERS: INSTALL AS PER MANUFACTURES' RECOMMENDATIONS. ENSURE THAT THROTTLING VALVES ARE NOT IN DIRECT LINE OF THE METER.
2. PITOT AIR FLOW METERS: PROVIDE 8 DIA. OF STRAIGHT PIPE BEFORE AND 3 DIA. OF STRAIGHT PIPE AFTER METERS. AVOID TEES AND ELBOWS BEFORE AND AFTER METERS.
3. MATERIALS OF VALVES AND PIPING IS TO BE AS SPECIFIED ON THE DIAGRAM.
4. FLEXIBLE HOSE IS TO BE AS SPECIFIED ON THE DIAGRAM.
5. DO NOT USE PVC PIPE ON AIR LINES OVER 5 PSIG.
6. ALL FEMALE PVC THREADED ADAPTORS MUST BE RE–ENFORCED FEMALE ADAPTORS.
7. NO DISSIMILAR METALS ARE TO BE IN DIRECT CONTACT ON WATER LINES.
8. ALL PVC MUST BE PVC SCHEDULE 80 FOR LIQUID CONVEYANCE AND CPVC SCHEDULE 80 FOR AIR CONVEYANCE.
9. ALL STAINLESS STEEL THREADED CONNECTIONS ARE TO UTILIZE GRAY TEFLON TAPE DESIGNED FOR SS FITTINGS.
10. ALL MECHANICAL BALL FLOAT LEVEL SWITCHES ARE TO BE INSTALLED WITH THEIR CABLES TIE WRAPPED, CABLES ARE NOT TO BE SHORTENED.

– INDICATING INSTRUMENT

– DIGITAL INPUT TO CONTROL PA

– DIGITAL INPUT CAUSING ALARM

– DIGITAL INPUT CAUSING SYSTEM SHUTDOWN ALARM

– ANALOG INPUT TO CONTROL PANEL

– ANALOG OUTPUT FROM CONTROL PANEL

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

AS – AIR STRIPPER
BLD – BUILDING, TRAILER, OR SKID
FLT – FILTER VELLEL
LPC – LIQUID–PHASE CARBON VESSEL
MFD – MANIFOLD
OWS – OIL/WATER SEPARATOR
OX – OXIDIZER
PST – PRODUCT STORAGE TANK
SOS – SEAL OIL SEPARATOR
SWS – SEAL WATER SEPARATOR
TNK – TANK
VLS – VAPOR/LIQUID SEPARATOR
VPC – VAPOR–PHASE CARBON VESSEL
MBR–MEMBRANE BIOREACTOR
PVC– POLYVINYL CHLORIDE

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477–5915

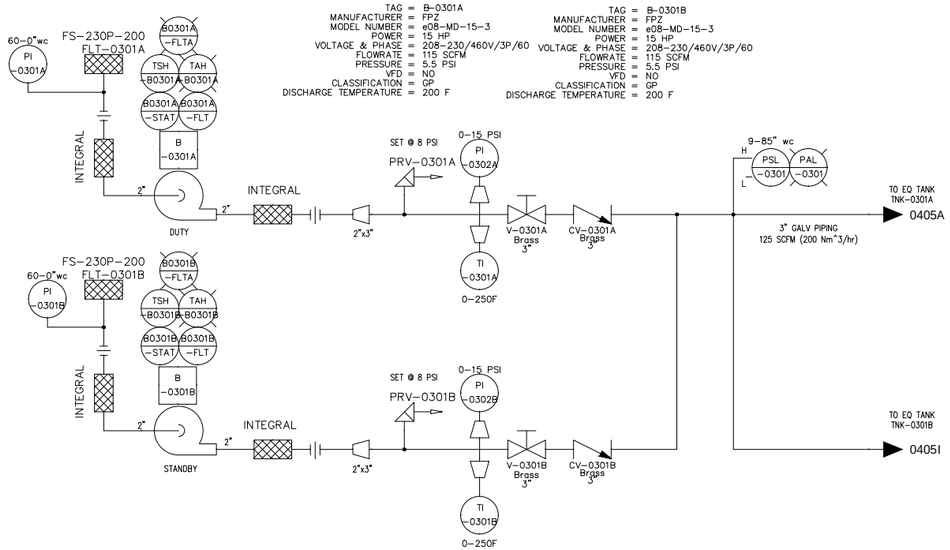
SHEET TITLE: P&ID LEGEND

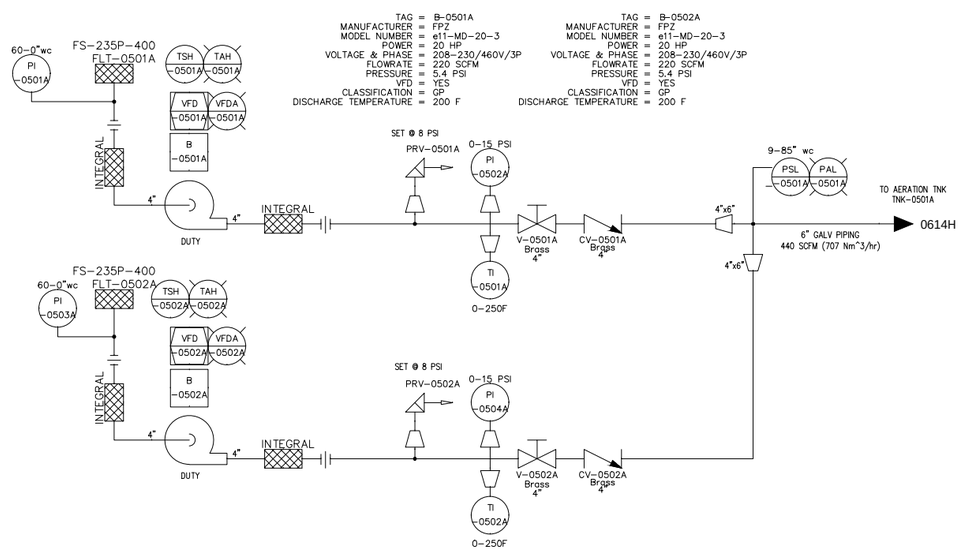
PROJECT NUMBER: #3774

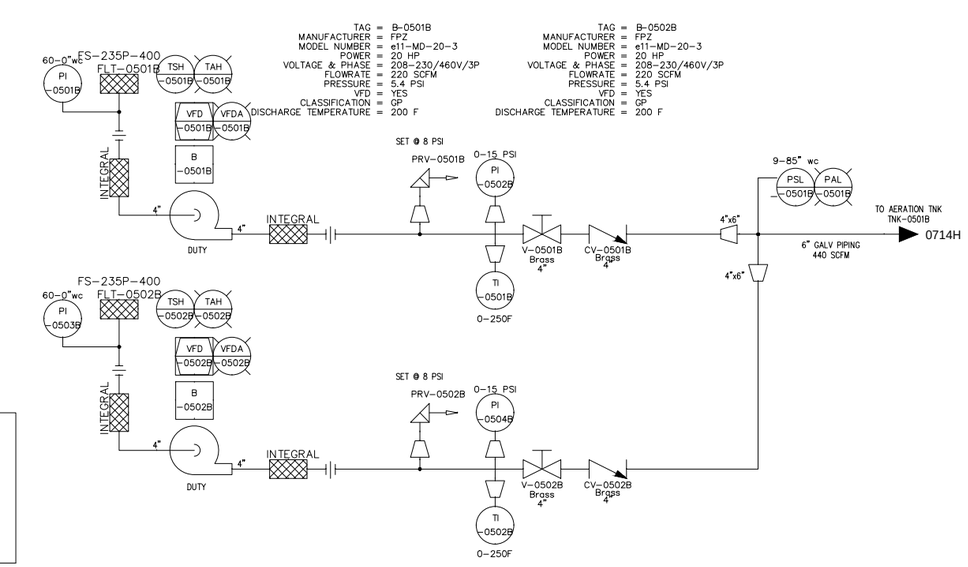
SCALE: NOT TO SCALE

SHEET: P24

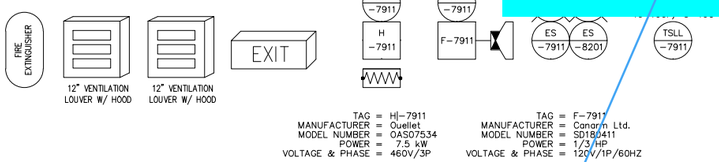
BLD-7910- GP AREA

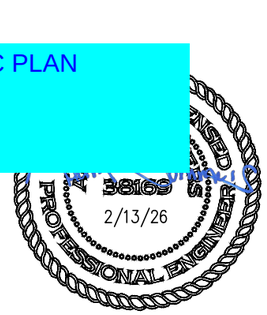






NOT NEEDED FOR GEC PLAN





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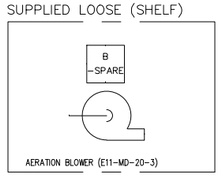
SUPPLIED LOOSE (SHELF)



WWTP DESIGN PARAMETERS
MAXIMUM MONTHLY FLOW (MMF) = 150,000 GPD (104.16 GPM)
MAXIMUM DAILY FLOW (MDF) = 225,000 GPD (156.25 GPM)
PEAK INSTANTANEOUS FLOW (PIF) = 291 GPM
SYSTEM AREA CLASSIFICATION = NFPA 820, 2016 EDDITION, AS INTERPERETED

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 1

PROJECT NUMBER: #3774

SCALE: NOT TO SCALE

SHEET: P25

BLD-7910- GP AREA

TAG = B-0701A
MANUFACTURER = FPZ
MODEL NUMBER = e08-MD-10-3
POWER = 10 HP
VOLTAGE & PHASE = 208-230/460V/3P
FLOWRATE = 120 SCFM
PRESSURE = 4 PSI
VFD = NO
CLASSIFICATION = GP
DISCHARGE TEMPERATURE = 190 F

TAG = B-0701B
MANUFACTURER = FPZ
MODEL NUMBER = e08-MD-10-3
POWER = 10 HP
VOLTAGE & PHASE = 208-230/460V/3P
FLOWRATE = 120 SCFM
PRESSURE = 4 PSI
VFD = NO
CLASSIFICATION = GP
DISCHARGE TEMPERATURE = 190 F

TAG = B-0701C
MANUFACTURER = FPZ
MODEL NUMBER = e08-MD-10-3
POWER = 10 HP
VOLTAGE & PHASE = 208-230/460V/3P
FLOWRATE = 120 SCFM
PRESSURE = 4 PSI
VFD = NO
CLASSIFICATION = GP
DISCHARGE TEMPERATURE = 190 F

FS-230P-200
FLT-0701A
60-0"wc
PI -0701A
TSH -B0701A
TAH -B0701A
B0701A -STAT
B0701A -FLT
B0701A -FLTA
B -0701A
INTEGRAL
2"
DUTY
INTEGRAL
2"x3"
SET @ 8 PSI
PRV-0701A
0-15 PSI
PI -0702A
TI -0701A
0-250F
V-0701A Brass 3"
CV-0701A Brass 3"
9-85" wc
PSL -0701A
PAL -0701A
3" GALV PIPING
119.4 SCFM (189 Nm^3/hr)
TO MEMBRANE TANK TNK-0701A
0810B

FS-230P-200
FLT-0701C
60-0"wc
PI -0701C
TSH -B0701C
TAH -B0701C
B0701C -STAT
B0701C -FLT
B0701C -FLTA
B -0701C
INTEGRAL
2"
COMMON STANDBY
INTEGRAL
2"x3"
SET @ 8 PSI
PRV-0701C
0-15 PSI
PI -0702C
TI -0701C
0-250F
V-0701C Brass 3"
CV-0701C Brass 3"

V-0702 Brass 3"

FS-230P-200
FLT-0701B
60-0"wc
PI -0701B
TSH -B0701B
TAH -B0701B
B0701B -STAT
B0701B -FLT
B0701B -FLTA
B -0701B
INTEGRAL
2"
DUTY
INTEGRAL
2"x3"
SET @ 8 PSI
PRV-0701B
0-15 PSI
PI -0702B
TI -0701B
0-250F
V-0701B Brass 3"
CV-0701B Brass 3"

V-0703 Brass 3"

TO MEMBRANE TANK TNK-0701B
3" GALV PIPING
0810J

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

FS-235P-400
FLT-0901A
60-0"wc
PI -0901A
TAH -B0901A
TSH -B0901A
B0901A -STAT
B0901A -FLT
B -0901A
INTEGRAL
4"
STANDBY
INTEGRAL
SET @ 8 PSI
PRV-0901A
0-15 PSI
PI -0902A
TI -0901A
0-250F
V-0901A Brass 4"
CV-0901A Brass 4"
9-85" wc
PSL -0901
PAL -0901
TO SLUDGE HOLDING TANK TNK-0901
4" GALV PIPING
185 SCFM (293 Nm^3/hr)
1107J

TAG = B-0901A
MANUFACTURER = FPZ
MODEL NUMBER = e10-MD-15-3
POWER = 15 HP
VOLTAGE & PHASE = 208-230/460V/3P/60
FLOWRATE = 185 SCFM
PRESSURE = 5.9 PSI
VFD = NO
CLASSIFICATION = GP
DISCHARGE TEMPERATURE = 190 F

TAG = B-0901B
MANUFACTURER = FPZ
MODEL NUMBER = e10-MD-15-3
POWER = 15 HP
VOLTAGE & PHASE = 208-230/460V/3P/60
FLOWRATE = 185 SCFM
PRESSURE = 5.9 PSI
VFD = NO
CLASSIFICATION = GP
DISCHARGE TEMPERATURE = 190 F

FS-235P-400
FLT-0901B
60-0"wc
PI -0901B
TAH -B0901B
TSH -B0901B
B0901B -STAT
B0901B -FLT
B -0901B
INTEGRAL
4"
STANDBY
INTEGRAL
SET @ 8 PSI
PRV-0901B
0-15 PSI
PI -0902B
TI -0901B
0-250F
V-0901B Brass 4"
CV-0901B Brass 4"

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

REV. No:	DATE:	BY:	REVISION DESCRIPTION:

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 2

PROJECT NUMBER: #3774

SCALE: NOT TO SCALE

SHEET: P26

TRAIN A

TRAIN B

FROM EQ BLOWERS B-0301A/B

0208H

125 SCFM

SUPPLIED LOOSE

FIT -0101

FLOW RANGE IS FUNCTION OF FLUME SIZE

INLET PERMISSIVE RELAY

YI -0101

TAG = FIT-0101
MANUFACTURER = Vega
MODEL NUMBER = VEGAPULS C 21
POWER = N/A
VOLTAGE & PHASE = 24 VDC

FEED WATER INLET

8"

OPEN CHANNEL PARSHALL FLUME*

8"

DESIGN FLOW 52 TO 78 GPM

TO SCREEN TRAIN A

0512A

TBD

2"

8" VENT

3"

4"

ACCESS HATCH

2"

SET@ 9.5 FTWC

SET@ 1 FTWC

LAHH -0301A

LALL -0301A

LSHH -0301A

LSLL -0301A

0-11.5ft H2O

LT -0301A

TAG = LT-0301A
MANUFACTURER = Dwyer
MODEL NUMBER = PBLTX-5-40
POWER = N/A
VOLTAGE & PHASE = 24VDC

SWD = 9.0 ft
HRT = 8 HRS

CV-0303A V-0303A PVC 2" (LOOSE)

CV-0304A V-0304A PVC 2" (LOOSE)

2" SCH80 PVC PIPE

4"x2"

4"

3"

EACH PUMP IS SUPPLIED WITH 49.2 FT OF CABLE

TAH -P0301A

TSH -P0301A

-FLTA

P-0301A -0301A

-STAT -FLT

P -0301A

TAH -P0302A

TSH -P0302A

-FLTA

P-0302A -0302A

-STAT -FLT

P -0302A

AUTOCOUPLING (P/N 97626239)

COARSE-BUBBLE AIR DIFFUSERS
ENVIRONMENTAL DYNAMICS MaxAir SIMPLEX
TOTAL = XX SIMPLEX DIFFUSERS
QTY TO BE CONFIRMED BY EDI

EQUALIZATION TANK
(TNK-0301A)
IN-GROUND CONCRETE TANK
27,800 GALLON
23.25 ft L x 16 ft W x 10 ft

TAG = P-0301A
MANUFACTURER = Grundfos
MODEL NUMBER = SLV.30.A30.15.EX.4.61R.C
POWER = 2 HP
VOLTAGE & PHASE = 230-460VAC/3P/60
FLOWRATE = 78 GPM
PRESSURE = 19.5' TDH
VFD = NO
CLASSIFICATION = EXP (CL 1 DIV 1)

TAG = P-0302A
MANUFACTURER = Grundfos
MODEL NUMBER = SLV.30.A30.15.EX.4.61R.C
POWER = 2 HP
VOLTAGE & PHASE = 230-460VAC/3P/60
FLOWRATE = 78 GPM
PRESSURE = 19.5' TDH
VFD = NO
CLASSIFICATION = EXP (CL 1 DIV 1)

TNK-0301A – HAZ CL 1 DIV 1 AREA

FROM EQ BLOWERS B-0301A/B

0214H

92.6 SCFM

BLD 7920 FLOOR DRAIN

0534A

BLD 7910 FLOOR DF

F1 P-05

TO SCREEN TRAIN B

0512I

DESIGN FLOW

ACCESS HATCH

LSHH -0301B

LSLL -0301B

0-11.5ft H2O

LT -0301B

TAG = LT-0301B
MANUFACTURER = Dwyer
MODEL NUMBER = PBLTX-5-40
POWER = N/A
VOLTAGE & PHASE = 24VDC

SWD = 9.0 ft
HRT = 8 HRS

CV-0303B V-0303B PVC 2" (LOOSE)

CV-0304B V-0304B PVC 2" (LOOSE)

2" SCH80 PVC PIPE

EACH PUMP IS SUPPLIED WITH 49.2 FT OF CABLE

P-0301B -LDA TAH P-0301B -FLTA

P-0301B -LD TSH P-0301B

P-0301B -0301B

-STAT -FLT

P -0301B

TAH -P0302B

TSH -P0302B -FLTB

P-0302B -0302B

-STAT -FLT

P -0302B

AUTOCOUPLING (P/N 97626239)

COARSE-BUBBLE AIR DIFFUSERS
ENVIRONMENTAL DYNAMICS MaxAir SIMPLEX
TOTAL = XX SIMPLEX DIFFUSERS
QTY TO BE CONFIRMED BY EDI

PLUMB TO 6" ABOVE BOTTOM OF TANK

EQUALIZATION TANK
(TNK-0301B)
IN-GROUND CONCRETE TANK
27,800 GALLON
23.25 ft L x 16.9 ft W x 10 ft

TAG =P-0301B
MANUFACTURER = Grundfos
MODEL NUMBER = SLV.30.A30.15.EX.4.61R.C
POWER = 2 HP
VOLTAGE & PHASE = 230-460VAC/3P/60
FLOWRATE = 78 GPM
PRESSURE = 19.5' TDH
VFD = NO
CLASSIFICATION = EXP (CL 1 DIV 1)

TAG =P-0302B
MANUFACTURER = Grundfos
MODEL NUMBER = SLV.30.A30.15.EX.4.61R.C
POWER = 2 HP
VOLTAGE & PHASE = 230-460VAC/3P/60
FLOWRATE = 78 GPM
PRESSURE = 19.5' TDH
VFD = NO
CLASSIFICATION = EXP (CL 1 DIV 1)

TNK-0301B – HAZ CL 1 DIV 1 AREA

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 3

PROJECT NUMBER: #3774

SCALE: NOT TO SCALE

SHEET: P27

BLD-7920 -CL1 DIV 2 AREA

TRAIN A

TAG = FIT-0201A
MANUFACTURER = Endress + Hauser Ltd.
MODEL NUMBER = 5W4C50-C6DLHA0DUA120A+L4
POWER = N/A
VOLTAGE & PHASE = 24VDC

PEAK FLOW = 100 GPM
SCREEN PERFORATIONS = 2 MM PERFERATED
INLET SOLIDS CONCENTRATION = 350 mg/L TSS

TAG = SCR-0201A
MANUFACTURER = Marathon
MODEL NUMBER = G829
POWER = 1/2hp
VOLTAGE & PHASE = 208-230/460V/3P,50/60hz

INTEGRAL

TAG = H-7921
MANUFACTURER = Indeeco
MODEL NUMBER = 233-FA-0056U-T
POWER = 5 kW
VOLTAGE & PHASE = 480V/3P

1/2" GARDEN HOSE CONNECTION

FROM EQ TANK TRAIN A
0412H

2" SCH 80 PVC PIPE
2" W/GR RINGS
FCV-0201A PVC 2"
SP-0201A Brass 1/2"
V-0201A PVC 2"
2"x3"
V-7920 Brass 1/2"
1010O

3"OVERFLOW
SOLIDS BAG COLLECTION
1" PVC CV-0201A
3"x1"
FLOOR DRAIN / SCREEN OVERFLOW

SCREEN TANK
(TNK-0201A)
NEWTERRA STANDARD SCREEN TANK, 304L SS
CUSTOM TANK W/STAND
4" FURNECO CAP

3" SCH 80 PVC PIPE
BLD-7920 FLOOR DRAIN W/ GRATING 4"
P-TRAP
3" SCH 80 PVC PIPE
TO EQ TANKS
0404Q

TRAIN B

TAG = FIT-0201B
MANUFACTURER = Endress + Hauser Ltd.
MODEL NUMBER = 5W4C50-C6DLHA0DUA120A+L4
POWER = N/A
VOLTAGE & PHASE = 24VDC

PEAK FLOW = 100 GPM
SCREEN PERFORATIONS = 2 MM PERFERATED
INLET SOLIDS CONCENTRATION = 350 mg/L TSS

TAG = SCR-0201B
MANUFACTURER = Marathon
MODEL NUMBER = G829
POWER = 1/2hp
VOLTAGE & PHASE = 208-230/460V/3P,50/60hz

B-7921
FURNCO
6"
PIPED TO 12" ABOVE FLOOR LEVEL
PAL-7921
0-10"wc
PI-7921
0.07 to 0.22 "wc
PSL-7921
V-7921 PVC 4"

TAG = B-7921
MANUFACTURER = Cincinnati
MODEL NUMBER = PB9A
POWER = 1/2 HP
VOLTAGE & PHASE = 115V/1P
FLOWRATE = 260 SCFM
PRESSURE = 6 IN WC
VFD = NO
CLASSIFICATION = EXP
DISCHARGE TEMPERATURE = 100 DEG F

AREA TO BE VENTALATED = 670 CUFT
MINIMUM AIRFLOW REQUIRED =133 CFM (12 EXCHANGES/HR)

FROM EQ TANK TRAIN A
0412Q

2" SCH 80 PVC PIPE
2" W/GR RINGS
FCV-0201B PVC 2"
SP-0201B Brass 1/2"
V-0201B PVC 2"
2"x3"

3"OVERFLOW
SOLIDS BAG COLLECTION
1" PVC CV-0201B
3"x1"
FLOOR DRAIN / SCREEN OVERFLOW

SCREEN TANK
(TNK-0201B)
NEWTERRA STANDARD SCREEN TANK, 304L SS
CUSTOM TANK W/STAND
4" FURNECO CAP

6" SCH 80 PVC PIPE
0713A

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 4

PROJECT NUMBER: #3774
SCALE: NOT TO SCALE
SHEET: P28

BLD-7930-GP AREA

*NOTE: A CHEMICAL DRUM HAS TYPICALLY 2 x 2" NPSM THREADED CONNECTIONS. ONE NEEDS TO BE USED FOR PUMP CONNECTIONS AND ONE FOR LEVEL TRANSMITTER

3/16" ID x 1/4 OD

MICRO C PULSE MODE DIAL = EXTERNAL

TAG = P-6103A
MANUFACTURER = Prominent
MODEL NUMBER = BT4B1602P-VT2000UD010A01
POWER = 17W
VOLTAGE & PHASE = 100-240V/50/60hz
PERFORMANCE = 0.383 GPH (MAX 0.581 GPH @ 232 PSI)

MICRO C CHEMICAL DRUM
TNK-6103A

TAG = LT-6103A
MANUFACTURER = Flowline
MODEL NUMBER = LR80-0000
POWER = N/A
VOLTAGE & PHASE = 24V DC

SPILL CONTAINMENT

TRAIN A

SUPPLIED LOOSE (SHELF)

SUPPLIED LOOSE (SHELF)

CHEMICAL ROOM (EXISTING / OFFTANK LOCATION)

TERMINATE WITH 2" FLANGE (FILL CONNECTION)

TAG = LT-6102
MANUFACTURER = Flowline
MODEL NUMBER = LR80-0000
POWER = N/A
VOLTAGE & PHASE = 24V DC

16" LID WITH LOCKING STRAP

CAUSTIC CHEMICAL TANK
64"D x 90"H
1.9 S.G.
1000 GAL
PE FLAT BOTTOM

ALL CHEMICAL TUBING PROVIDED BY CONTRACTOR

CAUSTIC PAUSE MODE DIAL = NUMBER VALUE

SUPPLIED LOOSE

SUPPLIED LOOSE

TAG = P-6102A & P-6102B
MANUFACTURER = Prominent
MODEL NUMBER = BT4B0413PVT2000UD010A01
POWER = 17W
VOLTAGE & PHASE = 100-240V/50/60hz
PERFORMANCE = 0.44 GPH (MAX 3.25 GPH @ 58 PSI)

V-6101 PVC 1/4"

V-6102 PVC 1/4"

COMPRESSION VALVES

0526F

RAS FROM TNK-0701A

0828A

FROM AERATION BLOWERS B-0501/2A

0208P

TO MBR TNK-0701A

0815A

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

SUSPENED MOUNT INCLUDES:
1. FIXATION BRACKET
2. TUBE FOR MOUNT- 3 M LONG

SWD = 10 FT
HRT = 6 HRS

SET@ TBD FTWC SET@ 1 FTWC

EACH MIXER IS SUPPLIED WITH 32 FT OF CABLE

PLEASE SEE SUBMITTAL FOR SUSPENDED MOUNTING DETAIL & PARTS PROVIDED

TAG =
MANUFACTURER =
MODEL NUMBER =
POWER =
VOLTAGE & PHASE =

TAG = P-0501A P-0502A
MANUFACTURER = Grundfos
MODEL NUMBER = SL1.30.A30.20.EX.4.61R.C
POWER = 2.5 HP
VOLTAGE & PHASE = 230-460VAC/3P/60
FLOWRATE = 203 GPM
PRESSURE = 27' TDH
VFD = NO
CLASSIFICATION = GP

EACH PUMP IS SUPPLIED WITH 49.2 FT OF CABLE

3" SCH80 PVC

AUTOCOUPLING (P/N 97626239)

TAG = AIT-0501/2/3A
MANUFACTURER = Endress + Hauser Ltd.
MODEL NUMBER = CM444-CAM41A3F061BAA
POWER = N/A
VOLTAGE & PHASE = 24VDC

4 x Digital Inputs
4 x 4-20mA Outputs

TAG = AE-0501A
MANUFACTURER = Endress + Hauser Ltd.
MODEL NUMBER = CPS11E-CB7BAA2
POWER = pH Sensor
VOLTAGE & PHASE = 4-20 mA

TAG = AE-0502A
MANUFACTURER = Endress + Hauser Ltd.
MODEL NUMBER = COS61D-CAA1A4
POWER = DO2 Sensor
VOLTAGE & PHASE = 4-20 mA

TAG = AE-0503A
MANUFACTURER = Endress + Hauser Ltd.
MODEL NUMBER = CUS51D-CAD1A4
POWER = MLSS sensor
VOLTAGE & PHASE = 4-20 mA

FINE-BUBBLE AIR DIFFUSERS
ENVIRONMENTAL DYNAMICS FlexAir DUPLEX MP3
TOTAL = XX DUPLEX DIFFUSERS
QTY TO BE CONFIRMED BY EDI

HYDRAULIC CONNECTION

SUSPENED MOUNT INCLUDES:
1. FIXATION BRACKET
2. TUBE FOR MOUNT- 3 M LONG

PLEASE SEE SUBMITTAL FOR SUSPENDED MOUNTING DETAIL & PARTS PROVIDED

TAG = MX-0601A
MANUFACTURER = Grundfos
MODEL NUMBER = SMD.17.8 .1765.T.6.0H
POWER = 2.4 HP
VOLTAGE & PHASE = 460VAC/3P/60

TAG = LT-0601A
MANUFACTURER = Dwyer
MODEL NUMBER = PBLTX-5-40
POWER =
VOLTAGE & PHASE = 24VDC

TAG = P-0601A P-0602A
MANUFACTURER = Grundfos
MODEL NUMBER = SL1.30.A30.30.EX.4.61R.C
POWER = 3.62 HP
VOLTAGE & PHASE = 230-460V/3P/60
FLOWRATE = 260.4 GPM
PRESSURE = 27' TDH
VFD = NO
CLASSIFICATION = GP

4" SCH80 PVC

PRE-ANOXIC TANK (TNK-0401A) IN-GROUND CONCRETE TANK 19,150 GALLON 16 ft L x 16 ft W x 10 ft H

AERATION TANK (TNK-0501A) IN-GROUND CONCRETE TANK 38,700 GALLON 32.3 ft L x 16 ft W x 10 ft H

POST-ANOXIC TANK (TNK-0601A) IN-GROUND CONCRETE TANK 6,100 GALLON 7.25 ft L x 11.25 ft W x 10 ft H

TNK-0401A - GP AREA

TNK-0501A - GP AREA

TNK-0601A-GP-AREA

COLORADO LICENSED ADAM SOMMERS 38169 PROFESSIONAL ENGINEER 2/13/26

REV. No:	DATE:	BY:	REVISION DESCRIPTION:

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 5

PROJECT NUMBER: #3774

SCALE: NOT TO SCALE

SHEET: P29

BLD-7930-GP AREA

*NOTE: A CHEMICAL DRUM HAS TYPICALLY 2 x 2" NPSM THREADED CONNECTIONS. ONE NEEDS TO BE USED FOR PUMP CONNECTIONS AND ONE FOR LEVEL TRANSMITTER

TAG = P|-6103B
MANUFACTURER = Prominent
MODEL NUMBER = BT4B0413PVT2000UD010A01
POWER = 17W
VOLTAGE & PHASE = 100-240V/50/60hz
PERFORMANCE = 0.38 GPH (MAX 3.25 GPH @ 58 PSI)

3/16" ID x 1/4 OD
MFV
MICRO C PULSE MODE DIAL = EXTERNAL
P -6103B (DUTY)
0-100% LT -6103B
MICRO C CHEMICAL DRUM
TNK-6103B
1-1/2"
TAG = LT|-6103B
MANUFACTURER = Flowline
MODEL NUMBER = LR80-0000
POWER = N/A
VOLTAGE & PHASE = 24V DC
SPILL CONTAINMENT

TRAIN B

SUPPLIED LOOSE (SHELF)
MX -SPARE

CHEMICAL ROOM (EXISTING / OFFTANK LOCATION)

TAG = LT-6101
MANUFACTURER = Flowline
MODEL NUMBER = LR80-0000
POWER = N/A
VOLTAGE & PHASE = 24V DC
TERMINATE WITH 2" FLANGE (FILL CONNECTION)
16" LID WITH LOCKING STRAP
0-100% LT -6101
1-1/2"
2"
ALUM CHEMICAL TANK 64"D x 90"H 1.9 S.G. 1000 GAL PE FLAT BOTTOM
3/16" ID x 1/4 OD
0825A
ALUM PULSE MODE DIAL = EXTERNAL
P -6101A (DUTY)
SUPPLIED LOOSE
0825I
P -6101B (DUTY)
SUPPLIED LOOSE
1/2"
V-6103 PVC 1/4"
COMPRESSION VALVES
V-6108 PVC 1/4"
TAG = P|-6101& P-6101B
MANUFACTURER = Prominent
MODEL NUMBER = BT4B0413PVT2000UD010A01
POWER = 17W
VOLTAGE & PHASE = 100-240V/50/60hz
PERFORMANCE = 1.69 GPH (MAX 3.25 GPH @ 58 PSI)

0526O
RAS FROM TNK-0701B
0828I
FROM AERATION BLOWERS B-0501/2B
0224P
TO MBR TNK-0701B
0815I

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

PRE-ANOXIC TANK
(TNK-0401B)
IN-GROUND CONCRETE TANK
19,150 GALLON
16 ft L x 16 ft W x 10 ft H
SWD = 10 FT
HRT = 6 HRS
6" 8" 3"
8" VENT
ACCESS HATCH
SET@ TBD FTWC SET@ 1 FTWC
LAHH -0401B LALL -0401B
LSHH -0401B LSLL -0401B
SUSPENED MOUNT INCLUDES:
1. FIXATION BRACKET
2. TUBE FOR MOUNT- 3 M LONG
EACH MIXER IS SUPPLIED WITH 32 FT OF CABLE
PLEASE SEE SUBMITTAL FOR SUSPENDED MOUNTING DETAIL & PARTS PROVIDED
TSH -M0401B TAH -M0401B
VFD -M0401B VFDA -M0401B
MX -0401B
TAG = MX-0401B
MANUFACTURER = Grundfos
MODEL NUMBER = SMD.23.10 .1750.T.6.0H
POWER = 2.4 HP
VOLTAGE & PHASE = 460VAC/3P/60
HYDRAULIC CONNECTION

AERATION TANK
(TNK-0501B)
IN-GROUND CONCRETE TANK
38,700 GALLON
32.3 ft L x 16 ft W x 10 ft H
SWD = 10 FT
HRT = 12.4 HRS
3" 3"
8" VENT
ACCESS HATCH
SET@ TBD FTWC SET@ 1 FTWC
LAHH -0501B LALL -0501B
LSHH -0501B LSLL -0501B
3" SCH80 PVC
V-0505B PVC 3" (LOOSE)
CV-0503B PVC 3" LOOSE
TAG = P-0501& P-0502B
MANUFACTURER = Grundfos
MODEL NUMBER = SL1.30.A30.20.EX.4.61R.C
POWER = 2.5 HP
VOLTAGE & PHASE = 230-460VAC/3P/60
FLOWRATE = 208 GPM
PRESSURE = 21' TDH
VFD = NO
CLASSIFICATION = GP
EACH PUMP IS SUPPLIED WITH 49.2 FT OF CABLE
4"x3"
TAH -P0501B
P -0501B -FLTA
TSH -P0501B
P -0501B -STAT -FLT
P -0501B
AUTOCOUP
P -0502B -STAT -FLT
AUTOCOUP
TAG = AE|-0501B
MANUFACTURER = Endress + Hauser Ltd.
MODEL NUMBER = CPS11E-CB7BAA2
POWER = pH Sensor
VOLTAGE & PHASE = 4-20 mA
pH AAH -0501B
AE -0501B pH
10 m CABLE
TAG = AE|-0502B
MANUFACTURER = Endress + Hauser Ltd.
MODEL NUMBER = COS61D-CAA1A4
POWER = DO2 Sensor
VOLTAGE & PHASE = 4-20 mA
DO2 AAH -0502B
AE -0502B DO2
15 m CABLE
TAG = AE|-0503B
MANUFACTURER = Endress + Hauser Ltd.
MODEL NUMBER = CUS51D-CAD1A4
POWER = MLSS Sensor
VOLTAGE & PHASE = 4-20 mA
0-30000 mg/L
AE -0503B MLSS
15 m CABLE
FINE-BUBBLE AIR DIFFUSERS
ENVIRONMENTAL DYNAMICS FlexAir DUPLEX MP3
TOTAL = XX DUPLEX DIFFUSERS
QTY TO BE CONFIRMED BY EDI
HYDRAULIC CONNECTION

POST-ANOXIC TANK
(TNK-0601B)
IN-GROUND CONCRETE TANK
23 m^3 (6100 GALLON)
7.25 ft L x 11.25 ft W x 10 ft H
8" VENT
MICRO-C
ACCESS HATCH
1/2"
SUSPENED MOUNT INCLUDES:
1. FIXATION BRACKET
2. TUBE FOR MOUNT- 3 M LONG
PLEASE SEE SUBMITTAL FOR SUSPENDED MOUNTING DETAIL & PARTS PROVIDED
SWD = 10 FT
HRT = 1.94 HRS
TAG = MX-0601B
MANUFACTURER = Grundfos
MODEL NUMBER = SMD.17.8 .1765.T.6.0H
POWER = 2.4 HP
VOLTAGE & PHASE = 460VAC/3P/60
0-11.5ft H2O LT -0601B
V-0603B PVC 3" (LOOSE)
CV-0603B PVC 3" LOOSE
V-0604B PVC 4" (LOOSE)
CV-0602B PVC 4" LOOSE
TAG = LT|-0601B
MANUFACTURER = Dwyer
MODEL NUMBER = PBLTX-5-40
POWER =
VOLTAGE & PHASE = 24VDC
TSH -M0601B TAH -M0601A
VFD -M0601B VFDA -M0601B
MX -0601B
EACH MIXER IS SUPPLIED WITH 32 FT OF CABLE
SET@ TBD FTWC SET@ 1 FTWC
LAHH -0601B LALL -0601B
LSHH -0601B LSLL -0601B
EACH PUMP IS SUPPLIED WITH 49.2 FT OF CABLE
4" SCH80 PVC
TAG = P-0601B& P-0602B
MANUFACTURER = Grundfos
MODEL NUMBER = SL1.30.A30.30.EX.4.61R.C
POWER = 3.62 HP
VOLTAGE & PHASE = 230-460V/3P/60
FLOWRATE = 260.4 GPM
PRESSURE = 27' TDH
VFD = NO
CLASSIFICATION = GP
P -0601B -FLTA P -0601B -STAT
TAH -P0601B P -0601B -FLT
TSH -P0601B P -0601B
AUTOCOUPLING (P/N 97626239)
P -0602B -FLTA P -0602B -STAT
TAH -P0602B P -0602B -FLT
TSH -P0602B P -0602B
P -0602B
AUTOCOUPLING (P/N 97626239)

TNK-0401B - GP AREA
TNK-0501B - GP AREA
TNK-0601B-GP AREA

COLORADO LICENSED
ADAM SOMMERS
38169
2/13/26
PROFESSIONAL ENGINEER

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 6

PROJECT NUMBER: #3774

SCALE: NOT TO SCALE

SHEET: P30

BLD-7930-GP AREA

TRAIN A

TAG = PI-0703A
MANUFACTURER = Shurflo
MODEL NUMBER = 2088-394-144
POWER =
VOLTAGE & PHASE = 115V/1P/60HZ
FLOWRATE = 3.0 GPM
PRESSURE = UP TO 45 PSIG
VFD = NO
CLASSIFICATION = GP

TAG = VT-0701A
MANUFACTURER = IFM Efector
MODEL NUMBER = PG2409
POWER = N/A
VOLTAGE & PHASE = 24V DC

TAG = FIT-0702A
MANUFACTURER = Endress + Hauser Ltd.
MODEL NUMBER = 5DBB80-CPDMBKA0D3A1ZGAA1+L5PD
POWER = N/A
VOLTAGE & PHASE = 24 VDC

TAG = AV-0702A
MANUFACTURER = Ginice
MODEL NUMBER = GQ-006
POWER = NA
VOLTAGE & PHASE = 24 VDC

TAG = TT-0701A
MANUFACTURER = IFM efector
MODEL NUMBER = TM5331
POWER = N/A
VOLTAGE & PHASE = 24 VDC

TAG = AV-0701A
MANUFACTURER = Ginice
MODEL NUMBER = GQ-004
POWER = NA
VOLTAGE & PHASE = 24 VDC

TRAIN B

SUPPLIED LOOSE (SHELF)

TAG = PI-0703A
MANUFACTURER = Shurflo
MODEL NUMBER = 2088-394-144
POWER =
VOLTAGE & PHASE = 115V/1P/60HZ
FLOWRATE = 3.0 GPM
PRESSURE = UP TO 45 PSIG
VFD = NO
CLASSIFICATION = GP

TAG = VT-0701B
MANUFACTURER = IFM Efector
MODEL NUMBER = PG2409
POWER = N/A
VOLTAGE & PHASE = 24V DC

TAG = FIT-0702B
MANUFACTURER = Endress + Hauser Ltd.
MODEL NUMBER = 5DBB80-CPDMBKA0D3A1ZGAA1+L5PD
POWER = N/A
VOLTAGE & PHASE = 24 VDC

TAG = AV-0702B
MANUFACTURER = Ginice
MODEL NUMBER = GQ-006
POWER = NA
VOLTAGE & PHASE = 24 VDC

TAG = TT-0701B
MANUFACTURER = IFM efector
MODEL NUMBER = TM5331
POWER = N/A
VOLTAGE & PHASE = 24 VDC

TAG = AV-0701B
MANUFACTURER = Ginice
MODEL NUMBER = GQ-004
POWER = NA
VOLTAGE & PHASE = 24 VDC

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

COLORADO LICENSED
ADAM SOMMERS
38169
PROFESSIONAL ENGINEER
2/13/26

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PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 7

PROJECT NUMBER: #3774

SCALE: NOT TO SCALE

SHEET: P31

BLD-7910- GP AREA

TRAIN A

TRAIN B

COMMON TURBIDITY TRANSMITTER
0-10 NTU
AIT -0701A/B

TAG = AIT-0701A/B
MANUFACTURER = Hach Inc
MODEL NUMBER = LXV525.99ZA1551
POWER = N/A
VOLTAGE & PHASE = 24 VDC

TAG = AE-0701A
MANUFACTURER = Hach Inc
MODEL NUMBER = TU5300sc w/SC4500
POWER = N/A
VOLTAGE & PHASE = 24 VDC

REMOTE MOUNTED HACH TURBIDITY ANALYZER

TURBIDITY AE -0701A
CLEANING UNIT
1/4" NV-0402 FLOW RESTRICTOR
1/4"
FLOW SENSOR
FROM NV-0701A

PLUMB TO GRADE IN A COMMON 2" CONCENTRIC REDUCER USED AS DRAIN FUNNEL

BLD-7910 FLOOR DRAIN W/ GRATING 3"

P-TRAP

0407Q

REMOTE MOUNTED HACH TURBIDITY ANALYZER

TURBIDITY AE -0701B
CLEANING UNIT
1/4" NV-0702B FLOW RESTRICTOR
1/4"
FLOW SENSOR
FROM NV-0701B

TAG = AE-0701B
MANUFACTURER = Hach Inc
MODEL NUMBER = TU5300sc w/SC4500
POWER = N/A
VOLTAGE & PHASE = 24 VDC

PEAK = (86.8 GPM)-ONE TRAIN
NORMAL = (57.9 GPM)-ONE TRAIN

3" SCH80 PVC

PEAK = (173.6 GPM)-TWO TRAIN
NORMAL = (115.8 GPM)-TWO TRAIN

3" SCH80 PVC

TO UV REACTORS UV-0801A/B

1005A

1/4" SS NV-0701A
TO AIT-0701A
3"x2"

FQI -0701A
0-160 GPM
FIT -0701A
M

TAG = FIT-0701A
MANUFACTURER = IFM efector
MODEL NUMBER = SM2601
POWER = N/A

1/4" SS NV-0701B
TO AIT-0701B
3"x2"

FQI -0701A
0-160 GPM
FIT -0701B
M

TAG = FIT-0701B
MANUFACTURER = IFM efector
MODEL NUMBER = SM2601
POWER = N/A
VOLTAGE & PHASE = 24V DC

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

0-60 PSI PI -0705A
CV-0705A PVC 2"
V-0711A PVC 2"
SP-0705A Brass 1/2"

0-60 PSI PI -0705B
CV-0705B PVC 2"
V-0711B PVC 2"
SP-0705B Brass 1/2"

TAG = PI-0702A
MANUFACTURER = Goulds
MODEL NUMBER = 3ST1H9E4
POWER = 3 HP
VOLTAGE & PHASE = 208-230/460V/3P/60
FLOWRATE = 86.8 GPM
PRESSURE = 57.5 FTWC (25 PSIG)
VFD = YES
CLASSIFICATION = TEPE CL1 DIV2

EPDM
2"x1-1/2"
2"
V-0709A PVC 2"
VFDA -0702A
VFD -0702A
P -0702A (STANDBY)

TAG = PI-0702B
MANUFACTURER = Goulds
MODEL NUMBER = 3ST1H9E4
POWER = 3 HP
VOLTAGE & PHASE = 208-230/460V/3P/60
FLOWRATE = 86.8 GPM
PRESSURE = 57.5 FTWC (25 PSIG)
VFD = YES
CLASSIFICATION = TEPE CL1 DIV2

EPDM
2"x1-1/2"
2"
V-0709B PVC 2"
VFDA -0702A
VFD -0702B
P -0702B (STANDBY)

0-60 PSI PI -0704A
SP-0704A Brass 1/2"

0-60 PSI PI -0704B
CV-0704B PVC 2"
V-0710B PVC 2"
SP-0704B Brass 1/2"

TAG = PI-0701A
MANUFACTURER = Goulds
MODEL NUMBER = 3ST1H9E4
POWER = 3 HP
VOLTAGE & PHASE = 208-230/460V/3P/60
FLOWRATE = 86.8 GPM
PRESSURE = 57.5 FTWC (25 PSIG)
VFD = YES
CLASSIFICATION = TEPE CL1 DIV2

EPDM
2"x1-1/2"
2"
V-0708A PVC 2"
VFD -0701A
P -0701A (DUTY)

FROM AV-0701A
0829H
2" SCH80 PVC

TAG = PI-0701B
MANUFACTURER = Goulds
MODEL NUMBER = 3ST1H9E4
POWER = 3 HP
VOLTAGE & PHASE = 208-230/460V/3P/60
FLOWRATE = 86.8 GPM
PRESSURE = 57.5 FTWC (25 PSIG)
VFD = YES
CLASSIFICATION = TEPE CL1 DIV2

EPDM
1-1/2"x2"
2"
V-0708B PVC 2"
VFDA -0701B
VFD -0701B
P -0701B (DUTY)

FROM AV-0701B
0829P
2" SCH80 PVC

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ADAM SOMMERS
38169
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2/13/26

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 8

PROJECT NUMBER: #3774

SCALE: NOT TO SCALE

SHEET: P32

BLD-7910- GP AREA

FROM P-0701/2A/B

0911Q

3" SCH80 PVC

3"x1"

1" SCH80 PVC

TAG = UV-0801A
MANUFACTURER = Hallett
MODEL NUMBER = 1000W
POWER = 403 Watts
VOLTAGE & PHASE = 120V/1P/50-60HZ
FLOWRATE = 75 GPM

TAG = UV-0802A
MANUFACTURER = Hallett
MODEL NUMBER = 1000W
POWER = 403 Watts
VOLTAGE & PHASE = 120V/1P/50-60HZ
FLOWRATE = 75 GPM

TAG = UV-0801B
MANUFACTURER = Hallett
MODEL NUMBER = 1000W
POWER = 403 Watts
VOLTAGE & PHASE = 120V/1P/50-60HZ
FLOWRATE = 75 GPM

TAG = UV-0802B
MANUFACTURER = Hallett
MODEL NUMBER = 1000W
POWER = 403 Watts
VOLTAGE & PHASE = 120V/1P/50-60HZ
FLOWRATE = 75 GPM

TAG = UV-0802B
MANUFACTURER = Hallett
MODEL NUMBER = 1000W
POWER = 403 Watts
VOLTAGE & PHASE = 120V/1P/50-60HZ
FLOWRATE = 75 GPM

TAG = UV-0802C
MANUFACTURER = Hallett
MODEL NUMBER = 1000W
POWER = 403 Watts
VOLTAGE & PHASE = 120V/1P/50-60HZ
FLOWRATE = 75 GPM

PEAK = (86.8 GPM)-ONE TRAIN
NORMAL = (57.9 GPM)-ONE TRAIN
PEAK = (173.6 GPM)-TWO TRAIN
NORMAL = (115.8 GPM)-TWO TRAIN

3" SCH80 PVC

3/4" Nylon/PE CV-0803

3/4"x3"

ANTI-SIPHON VALVE LOCATE AT THE HIGHEST POINT OF DISCHARGE PIPING WITH A U-BEND

TO BREAK TANK TNK-1001

1111A

1/2" Brass 303 SP-0803

EFFLUENT GRAB SAMPLE

1" SCH80 PVC

POTABLE WATER SUPPLY (FROM CITY)

CV-7931 BACKFLOW PREVENTOR

0511H

TO SCREEN ROOM (BLD-7920)

WATER FILL LINE

TAG = SV-0802
MANUFACTURER = ASCO
MODEL NUMBER = 8210G4
POWER = TBC
VOLTAGE & PHASE = 120V/1P/60HZ

SV-0802 BRASS 1"

1"

TAG = AV-7931
MANUFACTURER = Afflu-O
MODEL NUMBER = E15-010EC/004-1222
POWER = N/A
VOLTAGE & PHASE = 24 VDC

CV-7932 PVC 1"

AV-7931 PVC 1"

TNK-0801

BACKWASH TANK (TNK-0801) OT-178 178 IMP. GALLON 30"DIA X 73"H

2"

BLD-7930-GP AREA

0831H
TO AV-0701A
BACKPULSE/CEB TO MBR TRAIN A

0831Q
TO AV-0701B
BACKPULSE/CEB TO MBR TRAIN B

2" SCH80 PVC

1/2"x2"

1/2" PVC V-6107

1/2" PVC CV-6102

1/2" PVC V-6105

1/2" PVC CV-6101

4-40 GPH FI -6106

10-100 GPH FI -6105

1/2" HOSE BARB INTEGRAL

1/2" CLEAR PVC HOSE

P -6106

P -6105

(DUTY)

V-6106 PVC 1/2"

SUPPLIED LOOSE (SHELF)

P -SPARE

TNK-6106

SPILL CONTAINMENT

30% CITRIC ACID CHEMICAL DRUM

TNK-6105

SPILL CONTAINMENT

12% SODIUM HYPOCHLORITE CHEMICAL DRUM

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

FTAH -0801

FQI -0801

0-80 GPM

0-60 PSI PI -0801A

0-60 PSI PI -0801B

V-0811A PVC 2"

V-0811B PVC 2"

2" PVC CV-0801A

2" PVC CV-0801B

SP-0801A Brass 1/2"

SP-0806 Brass 1/2"

VFDA -0801A

VFD -0801A

P -0801A (DUTY)

VFDA -0801B

VFD -0801B

P -0801B (STANDBY)

EPDM

1-1/2"x2"

V-0810A PVC 2"

V-0810B PVC 2"

TAG = PI-0801A
MANUFACTURER = Goulds
MODEL NUMBER = 3ST2D9A4
POWER = 3/4 HP
VOLTAGE & PHASE = 208-230/460V/3P/60HZ
FLOWRATE = 57.9 GPM
PRESSURE = 9.5 PSI
VFD = YES
CLASSIFICATION = TEFC CL1 DIV2

TAG = PI-0801B
MANUFACTURER = Goulds
MODEL NUMBER = 3ST2D9A4
POWER = 3/4 HP
VOLTAGE & PHASE = 208-230/460V/3P/60HZ
FLOWRATE = 57.9 GPM
PRESSURE = 9.5 PSI
VFD = YES
CLASSIFICATION = TEFC CL1 DIV2

TAG = PI-6105
MANUFACTURER = Shurflo
MODEL NUMBER = 2088-394-144
POWER =
VOLTAGE & PHASE = 115V/1P/60HZ
FLOWRATE = 3.0 GPM
PRESSURE = UP TO 45 PSIG
VFD = NO
CLASSIFICATION = GP

TAG = PI-6106
MANUFACTURER = Shurflo
MODEL NUMBER = 2088-394-144
POWER =
VOLTAGE & PHASE = 115V/1P/60HZ
FLOWRATE = 3.0 GPM
PRESSURE = UP TO 45 PSIG
VFD = NO
CLASSIFICATION = GP

COLORADO LICENSED ADAM SOMMERS 38169 2/13/26 PROFESSIONAL ENGINEER

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 9

PROJECT NUMBER: #3774

SCALE: NOT TO SCALE

SHEET: P33

BLD-7930-GP AREA

FIRE EXTINGUISHER

12" VENTILATION LOUVER W/ HOOD

EXIT

INTEGRAL 40-100F/ 5-40C

TSL -7931 / H -7931

TSH -7931 / F-7931

ESA -7931 / ES -7931

TALL -7931 / TSLL -7931 40-100F/ 5-40C

TAG = H-7931
MANUFACTURER = Ouellet
MODEL NUMBER = OAS07534
POWER = 7.5 kW
VOLTAGE & PHASE = 460V/3P

TAG = F-7931
MANUFACTURER = Canarm Ltd.
MODEL NUMBER = S12-E1
POWER = 1/4 HP
VOLTAGE & PHASE = 120V/1P

COLORADO LICENSED
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38169
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2/13/26

FROM UV REACTORS UV-0801/2/3B
1006P

PEAK = (86.8 GPM)-ONE TRAIN
NORMAL = (57.9 GPM)-ONE TRAIN
PEAK = (173.6 GPM)-TWO TRAIN
NORMAL = (115.8 GPM)-TWO TRAIN

FROM FERROSORB FILTERS FLT-1101/2
1208A

0834B WAS FROM MEMBRANE TANK TNK-0701A

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

8" VENT

ACCESS HATCH

SET@ TBD FTWC LAHH -1001 / LSHH -1001

SET@ 1 FTWC LALL -1001 / LSLL -1001

0-11.5ft H2O LT -1001

SWD = 4 FT
HRT = 11.6 MIN

V-1001A PVC 3" (LOOSE)

V-1001B PVC 3" (LOOSE)

CV-1001A PVC 3" LOOSE

CV-1001B PVC 3" LOOSE

3" SCH80 PVC

AUTOCOUPLING (P/N 97626239)

TAG = P-1001A & P-1001B
MANUFACTURER = Grundfos
MODEL NUMBER = SLV.30.A30 .100.EX.2.61R.C
POWER = 11.8 HP
VOLTAGE & PHASE = 230-460VAC/3P/60
FLOWRATE = 173.6 GPM
PRESSURE = 30 PSI
VFD = NO
CLASSIFICATION = GP

EACH PU... WITH 49...

VFDA -P1001A / VFD -P1001A / TAH -P1001A / TSH -1001A / P -1001A

VFDA -P1001B / VFD -P1001B / TAH -P1001B / TSH -P1001B / P -1001B

BREAK TANK
(TNK-1001)
IN-GROUND CONCRETE TANK
1,810 GALLON
7.25 ft L x 8.3 ft W x 4 ft H

TNK-1001-GP AREA

BLD-7930-GP AREA

FQI -0902A / FIT -0902A / M SM2601

TAG = FIT-0902A
MANUFACTURER = IFM efector
MODEL NUMBER = SM2601
POWER = N/A
VOLTAGE & PHASE = 24V DC

FQI -0902B / FIT -0902B / M SM2601

TAG = FIT-0902B
MANUFACTURER = IFM efector
MODEL NUMBER = SM2601
POWER = N/A
VOLTAGE & PHASE = 24V DC

FROM SHT BLOWERS B-0901A/B
0318P

TO EQ TANKS TNK-0301A
0411Q

TO EQ TANKS TNK-0301B
0411Q

V-0903B PVC 2" / V-0902A PVC 2" / V-0904A PVC 2"

8" VENT

ACCESS HATCH

SET@ TBD FTWC LAHH -0901 / LSHH -0901

SET@ 1 FTWC LALL -0901 / LSLL -0901

0-11.5ft H2O LT -0901

TAG = LT-0901
MANUFACTURER = Dwyer
MODEL NUMBER = PBLTX-5-40
POWER = ?
VOLTAGE & PHASE = 24VDC

SWD = 10 FT
SLUDGE STORAGE W/ DECANT = 19.2 DAYS

CV-0903B PVC 2" / CV-0902A PVC 2"

DECANT PUMP DEPTH CHAIN SUPPORTED DECANT PUMP ADJUSTABLE

2"x 1-1/2" EPDM

1-1/2"

P-0901B -FLTA / P-0901B -STAT / P-0901B -FLT / P -0901B (LAG)

EACH PUMP IS SUPPLIED WITH 25 FT OF CABLE

COARSE-BUBBLE AIR DIFFUSERS
ENVIRONMENTAL DYNAMICS MaxAir SIMPLEX
TOTAL = XX SIMPLEX DIFFUSERS
QTY TO BE CONFIRMED BY EDI

P-0901A -FLTA / P-0901A -STAT / P-0901A -FLT / P -0901A (LEAD)

TAG = P-0901A & P-0901B
MANUFACTURER = Grundfos
MODEL NUMBER = UNILIFT AP12.40.06.A1
POWER = 1.34 HP
VOLTAGE & PHASE = 230V/1P/60
FLOWRATE = 61.9 GPM
PRESSURE = 20' TDH
VFD = NO
CLASSIFICATION = GP

SLUDGE HOLDING TANK
(TNK-0901)
IN-GROUND CONCRETE TANK
42,600 GALLON
33.1 ft L x 17.1 ft W x 10 ft H

TNK-0901 - GP AREA

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DESIGN BUILD OPERATE

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3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 10

PROJECT NUMBER: #3774

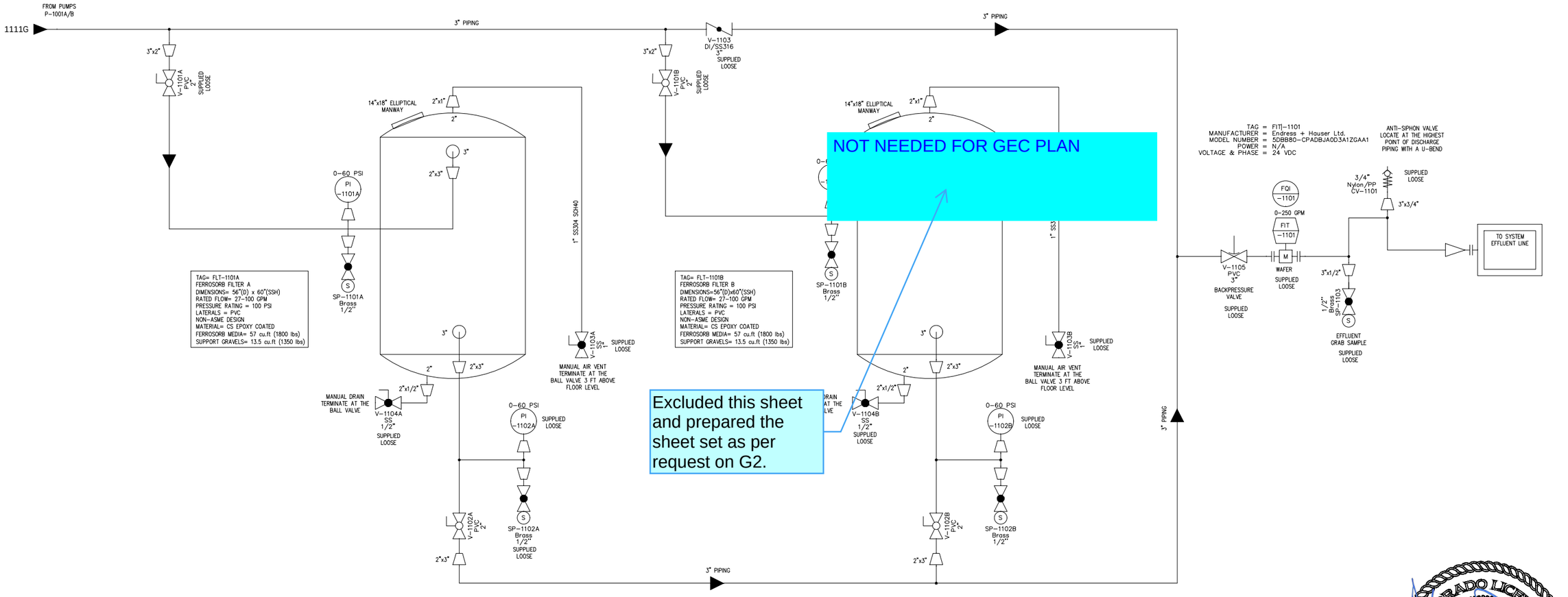
SCALE: NOT TO SCALE

SHEET: P34

CHEMICAL ROOM (EXISTING / OFFTANK LOCATION)

EVERYTHING IN THIS SECTION
IS SUPPLIED LOOSE BY NEWTERRA
TO BE FIELD INSTALLED.

GENERAL PURPOSE (NON-HAZARDOUS AREA)



COLORADO LICENSED
ADAM SOMMERS
38169
PROFESSIONAL ENGINEER
2/13/26

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 11

PROJECT NUMBER: #3774

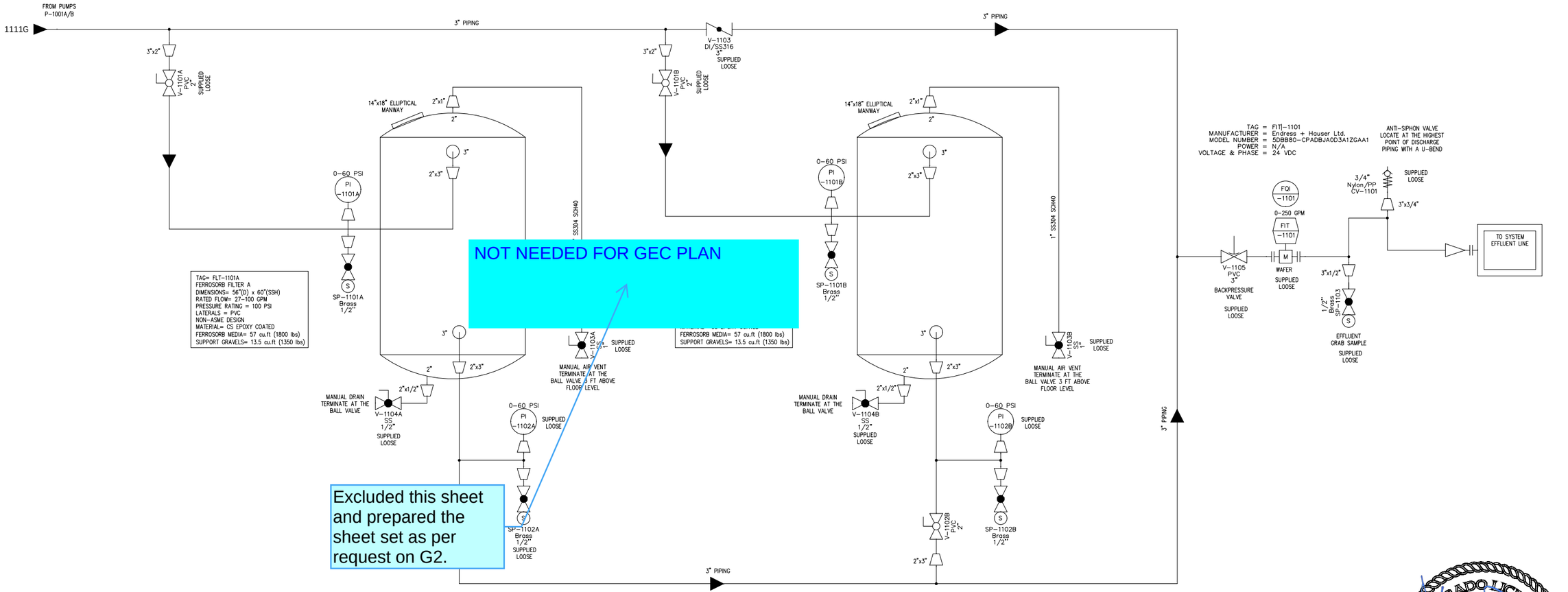
SCALE: NOT TO SCALE

SHEET: P35

CHEMICAL ROOM (EXISTING / OFFTANK LOCATION)

EVERYTHING IN THIS SECTION
IS SUPPLIED LOOSE BY NEWTERRA
TO BE FIELD INSTALLED.

GENERAL PURPOSE (NON-HAZARDOUS AREA)



COLORADO LICENSED
ADAM SOMMERS
38169
PROFESSIONAL ENGINEER
2/13/26

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN WATER & SANITATION DISTRICT WWTP
3155 WALKER ROAD
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: P&ID 12

PROJECT NUMBER: #3774

SCALE: NOT TO SCALE

SHEET: P36

DESIGN PARAMETERS

1. DESIGN CODES AND STANDARDS

A. BUILDING CODE:	IBC 2021
RISK CATEGORY	III

B. MATERIAL CODES AND STANDARDS
DESIGN LOADS:
ASCE/SEI 7-16 – MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

CONCRETE:
ACI 318-19 – BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
ACI 350-20 – CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES
ACI 350.1-10 – SPECIFICATION FOR TIGHTNESS TESTING OF ENVIRONMENTAL ENGINEERING CONCRETE CONTAINMENT STRUCTURES

2. GRAVITY LOADS

A. LIVE LOADS (UNIFORM/CONCENTRATED)	
CONTAINER ROOF	30 PSF / 300 LB
CONCRETE LID (NOT AT CONTAINERS)	60 PSF
B. SHIPPING CONTAINER "WET WT." (PROVIDED BY NEWTERRA)	BLD-7910/20:25,000 LBS
(WET WT. INCLUDES WATER WT. AND 88 PSF SNOW LOAD)	BLD-7930: 62,000 LBS

3. ROOF SNOW LOAD

A. GROUND SNOW LOAD, Pg	57 PSF
B. FLAT ROOF SNOW LOAD, Pf	57 PSF
C. SNOW EXPOSURE FACTOR, Ce	1.0
D. SNOW LOAD IMPORTANCE FACTOR, I	1.1
E. THERMAL FACTOR, Ct	1.0

4. WIND DESIGN DATA (CONTAINER DESIGN BY MANUFACTURER)

A. ULTIMATE DESIGN WIND SPEED (3 SECOND GUST), Vult	135 MPH
NOMINAL DESIGN WIND SPEED (3 SECOND GUST), Vasd	105 MPH
B. WIND EXPOSURE CATEGORY	C
C. INTERNAL PRESSURE COEFFICIENT, GCpi	+/- 0.18
D. WIDTH OF END ZONE	3 FT

5. EARTHQUAKE DESIGN DATA (TANK WALLS)

A. SEISMIC IMPORTANCE FACTOR, Ie	1.25
B. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, Ss (BASED ON ROUTT COUNTY AMENDMENT)	
C. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S1	
D. SITE CLASS	
E. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sds	
F. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sd1	
G. SEISMIC DESIGN CATEGORY	B
H. STRUCTURAL SYSTEM	
1.) VERTICAL ELEMENT TYPE	BEARING WALL SYSTEM
2.) BASIC SEISMIC FORCE-RESISTING SYSTEM TYPE	ORDINARY REINFORCED CONCRETE SHEAR WALLS
3.) RESPONSE MODIFICATION FACTOR, R	3.25
4.) SEISMIC RESPONSE COEFFICIENT, Cs	0.084
5.) DESIGN BASE SHEAR, 1.0E	0.084W
J. ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

Excluded this sheet and prepared the sheet set as per request on G2.

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GENERAL NOTES

GENERAL

1. STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF SLABS, AND/OR WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
2. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
3. THE STRUCTURE HAS BEEN DESIGNED FOR THE INDICATED LOADS ONLY. USE OF HEAVY EQUIPMENT AND SCAFFOLDING, OR STORAGE OF MATERIALS THAT TRANSFER EXCESSIVE LOADS TO THE STRUCTURE SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO VERIFY THE ADEQUACY OF THE STRUCTURE FOR ALL APPLIED CONSTRUCTION LOADS THAT EXCEED THE LOADS INDICATED IN THE CONSTRUCTION DOCUMENTS AND SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER-OF-RECORD PRIOR TO ANY CONSTRUCTION ACTIVITY.
4. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, PROCESS, MECHANICAL, ELECTRICAL, PLUMBING AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.
5. NOT NEEDED FOR GEC PLAN — IN ACCORDANCE WITH AMERICAN
6. CATIONS THROUGH THE STRUCTURE FOR VERIFIED BY THE CONTRACTOR. ARCHITECT AND THE R OPENING LOCATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
7. USE ONLY DIMENSIONS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT SCALE CONTRACT DOCUMENTS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES. CONTRACTOR SHALL COORDINATE IN-PLACE DIMENSIONS BASED ON TOLERANCES OF THE RESPECTIVE TRADES.
8. ASSUME EQUAL SPACING IF NOT INDICATED IN CONTRACT DOCUMENTS.
9. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, OPENING, BLOCKOUTS, RECESSES, ELEVATIONS, ANCHOR RODS AND EMBED LOCATIONS PRIOR TO CONSTRUCTION.

FOUNDATIONS

1. REFER TO THE SITE WORK SPECIFICATIONS AND GEOTECHNICAL REPORT BY PARR ENGINEERING & TING, INC., DATED: AUGUST 30, 2019 – REPORT NUMBER 19.300, FOR INFORMATION NOT IN THIS PREPARATION. THE GEOTECHNICAL REPORT IS FOR INFORMATION ONLY AND IS NOT RED AS A DESIGN SPECIFICATION
   DESIGNS ARE BASED ON A ALLOWABLE SOIL BEARING CAPACITY OF 3000 PSF. FOR S BEARING ON NATIVE OR UNDISTURBED SOILS.
   A. FOOTINGS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH. MINIMUM BEARING DEPTH IS 30 INCHES BELOW ADJACENT FINISHED GRADE FOR FROST PROTECTION
   B. STANDARD PROCEDURES FOR FROST PROTECTION FOR FOUNDATIONS AND EXCAVATIONS SHALL BE EMPLOYED FOR WINTER CONSTRUCTION. BACKFILLING OF EXCAVATIONS SHALL BE DONE AS SOON AS POSSIBLE TO PROTECT FOUNDATIONS FROM FROST
   C. FOUNDATIONS SHOULD BE SET BACK AT LEAST 10 FEET HORIZONTALLY FROM ALL SLOPE FACES. CONTACT GEOTECHNICAL ENGINEER FOR REQUIREMENTS AT SITE RETAINING WALLS THAT INTERRUPT THIS SETBACK
3. CONTRACTOR AND TESTING LABORATORY REPRESENTATIVE SHALL READ THE GEOTECHNICAL REPORT AND BECOME THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION.
4. A QUALIFIED AND REGISTERED GEOTECHNICAL ENGINEER, LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND WORKING FOR THE TESTING LABORATORY, SHALL DETERMINE CONFORMANCE OF THE FOUNDATION BEARING STRATA WITH THE FOUNDATION DESIGN CRITERIA ABOVE, AND ALL OTHER CONTRACT DOCUMENTS. TESTING LABORATORY SHALL NOTIFY CONTRACTOR, ARCHITECT AND ENGINEER-OF-RECORD OF ANY CONDITIONS NOT IN ACCORDANCE WITH FOUNDATION DESIGN CRITERIA OR CONTRACT DOCUMENTS.
5. THE SUBGRADE SHALL BE PREPARED AS INDICATED IN THE GEOTECHNICAL REPORT
6. USE ONLY STRUCTURAL FILL MATERIAL IDENTIFIED IN THE GEOTECHNICAL REPORT FOR FILL BELOW BUILDING AND FIVE FEET BEYOND THE EDGES OF THE BUILDING AND 1 FOOT BEYOND THE EDGES OF PAVING.
7. FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING INSTALLED BY THE CONTRACTOR BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.
8. AVOID DAMAGE TO UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO, WATER MAINS, SANITARY SEWERS AND BURIED CABLES WHICH MIGHT EXTEND ACROSS OR ADJOIN SITE.

CONCRETE

1. EXTERIOR CONCRETE AND INTERIOR CONCRETE EXPOSED TO FREEZE-THAW, AND CONCRETE SLABS AND WALLS PERMANENTLY EXPOSED TO THE EXTERIOR SHALL HAVE MINIMUM 28-DAY COMPRESSIVE STRENGTH = 4500 PSI. PROPORTIONED TO HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.42. SLUMP = 3" – 5". ALL CONCRETE EXPOSED TO THE EXTERIOR SHALL BE AIR ENTRAINED WITH MINIMUM TOTAL AIR CONTENT OF 6% (+/- 1%) BY VOLUME PER ASTM C231 FOR $\frac{3}{4}$" AGGREGATE AND LARGER. REFERENCE ACI 350-20 TABLE 4.4, TOTAL AIR CONTENT FOR CONCRETE EXPOSED TO CYCLES OF FREEZING AND THAWING, SEVERE EXPOSURE, FOR SMALLER AGGREGATE SIZES.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II
3. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33. MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".
4. MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE
5. REINFORCING STEEL SHALL MEET THE FOLLOWING — ASTM SPECIFICATION
   A. DEFORMED BARS — A615, GRADE 60
6. WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH THE SIZE AND LOCATION OF MAIN REINFORCEMENT STEEL. REINFORCING BARS SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SPLICE SCHEDULE (5/S6)
7. REFER TO ACI 350-20 FOR CONCRETE COVER REQUIREMENTS, ACI 315 LATEST EDITION FOR DETAILING PRACTICES AND FABRICATION, AND ACI 301 LATEST EDITION FOR STANDARD PRACTICES FOR MIXING AND PLACING CONCRETE. REFER TO ACI 306R-10 FOR REQUIRED COLD WEATHER CONCRETING PROCEDURES. MINIMUM PROTECTION PERIOD FOR CONCRETE PLACED DURING FREEZING TEMPERATURES IS 7 DAYS
8. ANCHORS INSTALLED IN HARDENED CONCRETE SHALL BE USED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING. HOLES SHALL BE DRILLED, DRY AND CLEANED AND ANCHORS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED WRITTEN INSTRUCTIONS AND APPLICABLE ESR REPORT. REFERENCE DETAILS FOR ANCHOR SIZE AND EMBEDMENT. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. ALLOWABLE SUBSTITUTIONS FOR POST-INSTALLED ANCHORS IN CONCRETE ARE:
   A. HILTI HIT-RE 500-SD EPOXY ADHESIVE (ICC-ES ESR-2322)
   B. HILTI HIT-HY 200 ADHESIVE (ICC-ES ESR-3187)
   C. HILTI KWIK BOLT TZ EXPANSION ANCHOR (ICC-ES ESR-1917)
   D. SIMPSON STRONG-TIE SET-XP EPOXY ADHESIVE (ICC-ES ESR-2508)
   E. SIMPSON STRONG-TIE AT-XP ADHESIVE (ICC-ES ESR-263)
   F. SIMPSON STRONG-TIE BOLT 2 WEDGE ANCHOR (ICC-ES ESR-3037)
9. FOUNDATION SLAB SHALL BE PLACED IN A SINGLE POUR WITHOUT CONSTRUCTION JOINTS. IF CONTRACTOR PLANS MULTIPLE POURS, CONTACT WALLACE DESIGN COLLECTIVE FOR REQUIRED CONSTRUCTION AND COLD JOINT DETAILS
10. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS AND STEEL REINFORCEMENT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER OF RECORD WELL IN ADVANCE OF CONCRETE PLACEMENT

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AquaWorks DBO INC
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PROJECT: WWTP IMPROVEMENT PROJECT
WALDEN CORPORATION
COLORADO SPRINGS, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
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SHEET TITLE: GENERAL STRUCTURAL NOTES

PROJECT NUMBER:	SCALE:	SHEET:
#2511551	N.T.S.	S1

SPECIAL INSPECTION REQUIREMENTS (2021)

SPECIAL INSPECTIONS REQUIREMENTS (IBC 2021 CHAPTER 17)

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
2. REPORT REQUIREMENTS SHALL CONFORM TO SECTIONS 1704.2.4 AND 1704.5 OF THE IBC. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
4. FABRICATORS OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS OR ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1704.2.5 OF THE IBC.
5. SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.

IBC 2021 REQUIRED SPECIAL INSPECTIONS

			FREQUENCY OF INSPECTION	
			CONTINUOUS	PERIODIC
		CONCRETE CONSTRUCTION (IBC TABLE 1705.3)		
1.		INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PL		X
2.		INSPECT ANCHORS CAST IN CONCRETE.		X
3.		VERIFY USE OF REQUIRED DESIGN MIX.		X
4.		PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---
5.		INSPECT CONCRETE AND SHOTCRETE PLACEMENT OF PROPER APPLICATION TECHNIQUES.	X	---
6.		VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X
7.		INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X
		SOILS (IBC TABLE 1705.6)		
1.		VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2.		VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3.		PERFORM CLASSIFICATION AND TESTING OF COMPACT	---	X
4.		DURING FILL PLACEMENT, VERIFY USE OF PROPER MAT ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPOR T THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5.		PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT S SITE HAS BEEN PREPARED PROPERLY.	---	X
		** CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT CONTINUOUSLY WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.		
		** PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.		

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.

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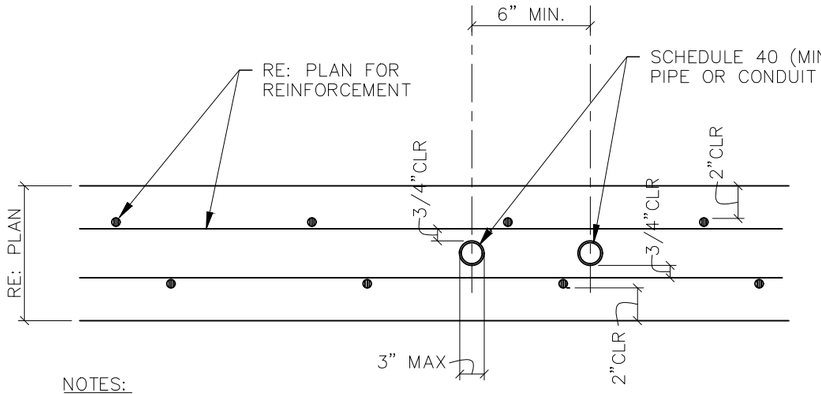
SHEET TITLE: SPECIAL INSPECTIONS

PROJECT NUMBER: #2511551
SCALE: N.T.S.
SHEET: S1A

STRUCTURAL OBSERVATION REQUIREMENTS (IBC 2021 SECTION 1704.6)

1. A REPRESENTATIVE OF THE ENGINEER OF RECORD WILL PERFORM THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTION REQUIRED OF THE BUILDING OFFICIAL OR THE SPECIAL INSPECTOR.
2. A PRE-CONSTRUCTION MEETING SHALL BE HELD AND ATTENDED BY THE ARCHITECT, ENGINEER OF RECORD, GENERAL CONTRACTOR, SUBCONTRACTORS, AND SPECIAL INSPECTORS.
3. THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 48 HOURS PRIOR TO COMPLETING CONSTRUCTION OPERATIONS THAT REQUIRE STRUCTURAL OBSERVATION (BY EMAILING steve.jacob@wallace.design or dan.mazzei@wallace.design TO SCHEDULE A SITE VISIT.)
4. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER:
   A. AFTER INSTALLATION OF CONCRETE WALL DOWELS AND BEFORE FOUNDATION CONCRETE PLACEMENT.
5. AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.



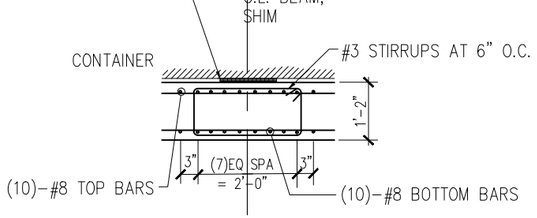
NOTES:
1. CONDUIT/PIPE SHALL BE FABRICATED AND INSTALLED SUCH THAT CUTTING, BENDING, OR DISPLACEMENT OF REINF. WILL NOT BE REQUIRED.
2. CONDUIT/PIPE SHALL NOT BE PLACED WITHIN 9" OF CONTAINER SUPPORT
3. DO NOT STACK CONDUIT VERTICALLY IN SLAB.
4. CONDUIT/PIPE SHALL BE SUPPORTED AND SECURED TO PREVENT DISPLACEMENT DURING PLACEMENT OF CONCRETE.
5.
6. F.

NOT NEEDED FOR GEC PLAN

T DUIT DETAIL

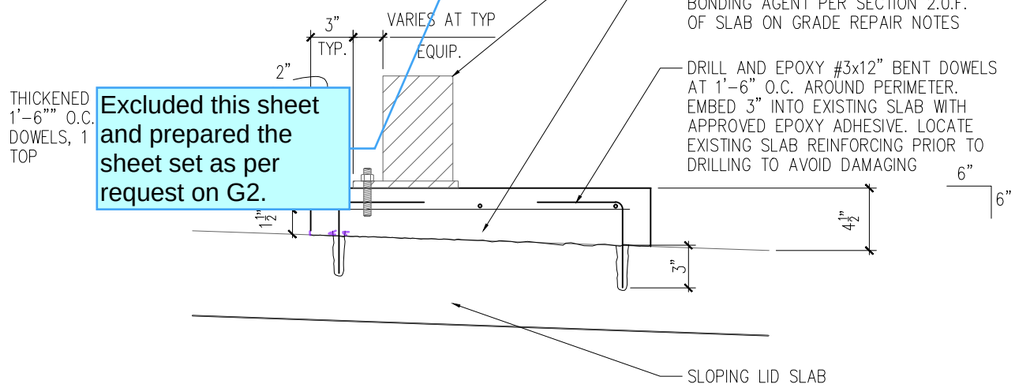
1/S2 SCALE: NTS

CONTAINER SHIMS. COORDINATE LOCATION OF SHIMS WITH BEAM REINFORCEMENT



DETAIL (LID BEAM)

2/S2 SCALE: 3/8" = 1'-0"



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HOUSEKEEPING SLAB

3/S2 SCALE: 1" = 1'-0"

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.O.R.	ARCHITECT OF RECORD
A.R.	ANCHOR RODS
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
ARCH.	ARCHITECTURAL
B.L.	BLOCK LINTEL
B.O.D.	BOTTOM OF DECK
B.O.S.	BOTTOM OF STEEL
B.P.	BASE PLATE
BAL.	BALANCE
BLDG.	BUILDING
BRG.	BEARING
C.J.	CONTRACTION JOINT
C.L.	CENTER LINE
CFMF	COLD FORMED METAL FRAMING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
D.B.A.	DEFORMED BAR ANCHOR
D.B.E.	DECK BEARING ELEVATION
DIA.	DIAMETER
DTL.	DETAIL
DWG.	DRAWING
E.F.	EACH FACE
E.J.	EXPANSION JOINT
E.O.D.	EDGE OF DECK
E.O.R.	ENGINEER OF RECORD
E.O.S.	EDGE OF SLAB
E.W.	EACH WAY
EA.	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
F.F.E.	FINISHED FLOOR ELEVATION
F.S.	FAR SIDE
F.V.	FIELD VERIFY
FDN.	FOUNDATION
FT.	FOOT/FEET
FTG.	FOOTING
G.B.	GRADE BEAM
G.C.	GENERAL CONTRACTOR
GA.	GAGE
GALV.	GALVANIZED
H.S.A.	HEADED STUD ANCHOR
HORIZ.	HORIZONTAL
I.F.	INSIDE FACE
IN.	INCH/INCHES
INFO.	INFORMATION
J.B.E.	JOIST BEARING ELEVATION
JT.	JOINT
K	UNIT OF 1,000 POUNDS (KIP)
KSI	KIPS PER SQUARE INCH
LBS.	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSL	LONG SLOT
LSV	LONG SIDE VERTICAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
N.I.C.	NOT IN CONTRACT
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OPPOSITE FACE
O.H.	OPPOSITE HAND
OPP.	OPPOSITE
P.A.F.	POWER/POWDER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLUMB.	PLUMBING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
R.O.	ROUGH OPENING
RE:	REFER
REINF.	REINFORCING
REQD.	REQUIRED
RTU	ROOF TOP UNIT
S.D.S.	SELF-DRILLING SCREWS
S.S.	STAINLESS STEEL
SCHED.	SCHEDULE
SIM.	SIMILAR
SP.	SPACE/SPACING
SPECS.	SPECIFICATIONS
SSL	SHORT SLOT
STD.	STANDARD
STL.	STEEL
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W.P.	WORK POINT
W.S.	WATERSTOP
W.W.R.	WELDED WIRE REINFORCEMENT
WT.	WEIGHT

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AquaWorks DBO INC
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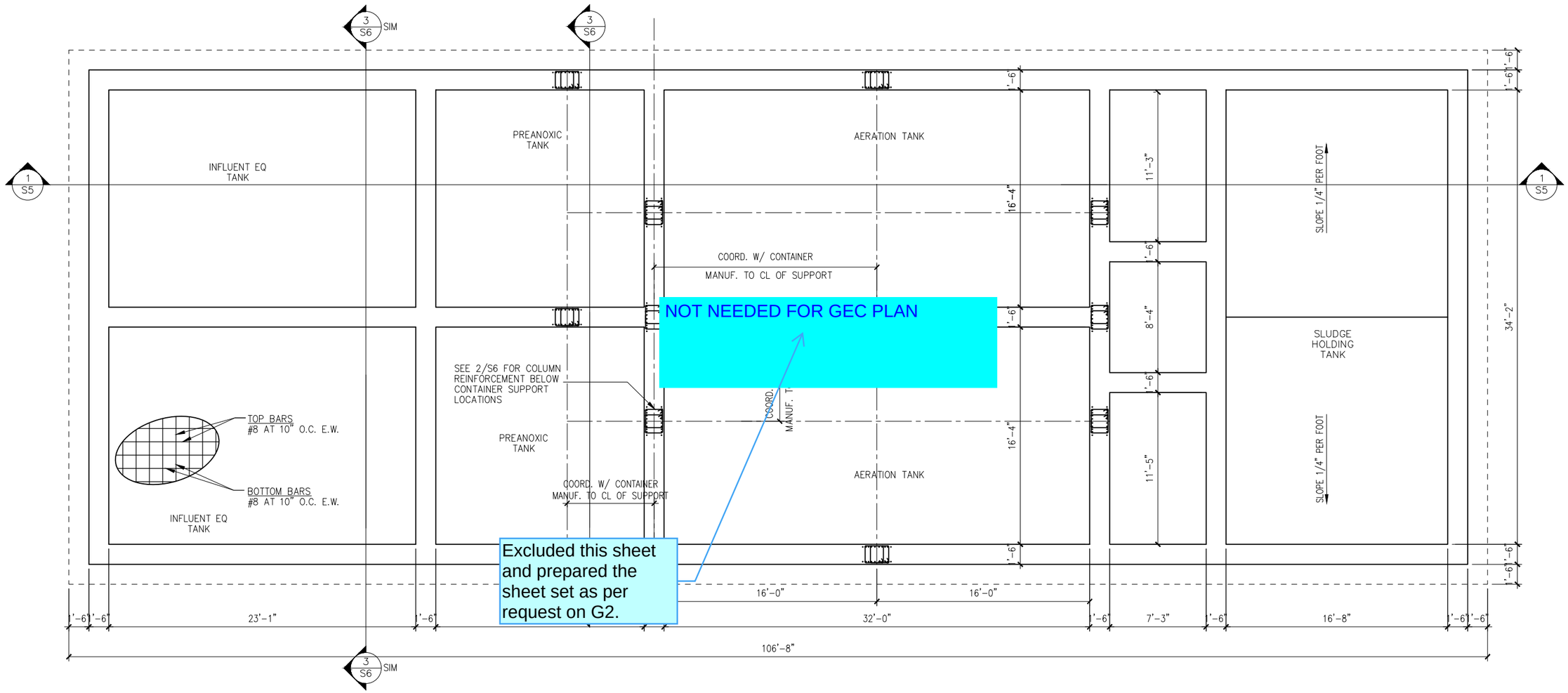
PROJECT: WWTP IMPROVEMENT PROJECT
WALDEN CORPORATION
COLORADO SPRINGS, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: STRUCTURAL OBSERVATION REQUIREMENT AND ABBREVIATIONS

PROJECT NUMBER:	SCALE:	SHEET:
#2511551	N.T.S.	S2



FOUNDATION PLAN NOTES:

1. 18" CONCRETE SLAB REINFORCED AS SHOWN ON PLAN.
2. PREPARE SUBGRADE PER GEOTECHNICAL RECOMMENDATIONS FROM REPORT REFERENCED ON SHEET S1.
3. SEE SHEET S5 FOR SLAB THICKNESS AND SLOPE AT SLOPING SLUDGE HOLDING TANK
4. EXTERIOR GRADE ELEVATION VARIES, REF CIVIL.
5. SLOPE BOTTOM OF FOOTING IF NEEDED TO MAINTAIN MINIMUM BEARING DEPTH.
6. REFERENCE PROCESS PLANS AND SECTIONS FOR SIZE AND LOCATIONS OF PENETRATIONS, TYP.

PLAN NORTH

1/S3 CONCRETE TANK FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

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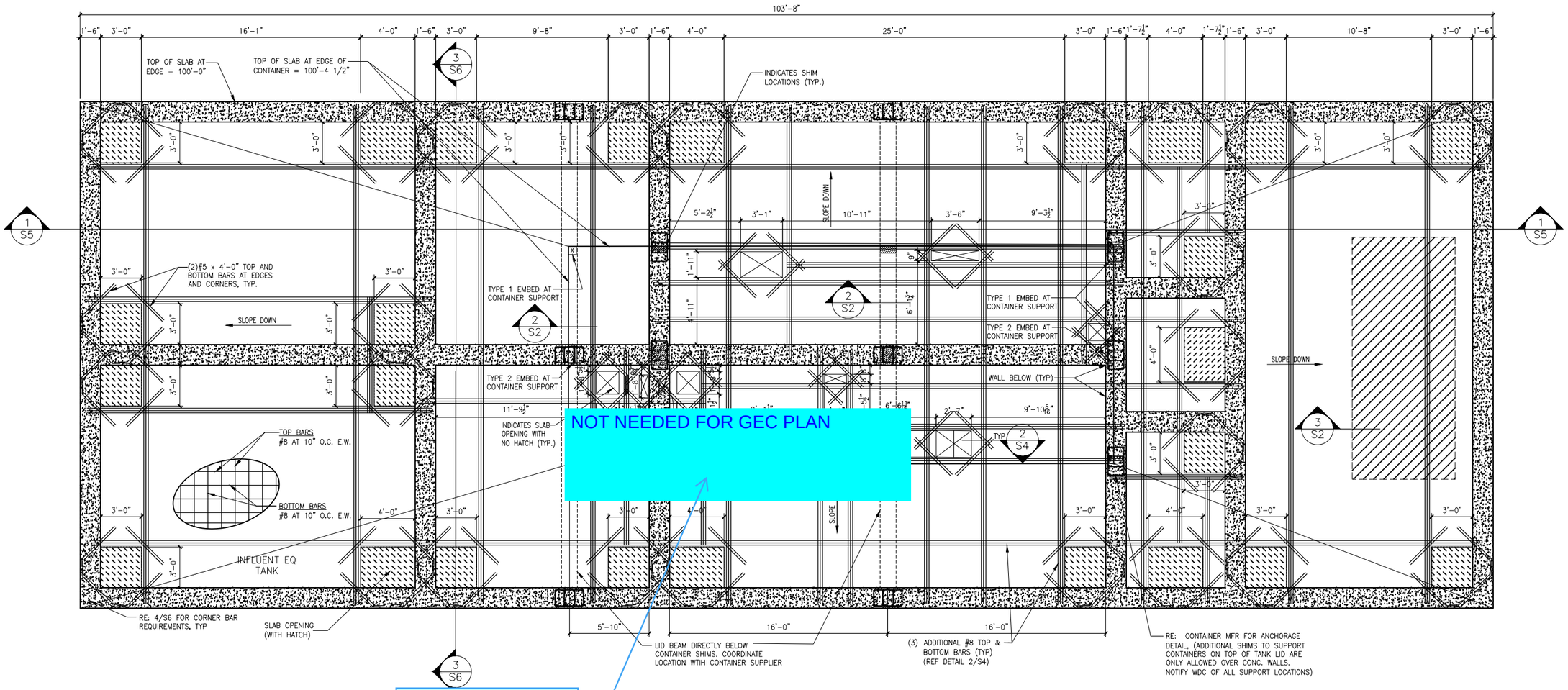
SHEET TITLE: CONCRETE TANK FOUNDATION PLAN

PROJECT NUMBER:	SCALE:	SHEET:
#2511551	1/4" = 1'	S3



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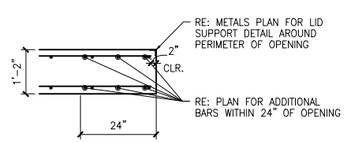
1/S4 CONCRETE TANK LID PLAN

SCALE: 3/16" = 1'-0"



2/S4 DETAIL (LID OPENING)

SCALE: 3/8" = 1'-0"

PLAN NORTH

CONCRETE TANK LID PLAN NOTES:

1. 14" CONCRETE SLAB REINFORCED AS SHOWN ON PLAN.
2. EXTERIOR GRADE ELEVATION VARIES, REF CIVIL.
3. REFERENCE PROCESS PLANS AND SECTIONS FOR SIZE AND LOCATIONS OF PENETRATIONS, TYP.
4. REF. 6-S6 FOR TYPICAL REINFORCEMENT AT WALL PIPE SLEEVE OR OTHER WALL OPENING DETAILS. RE: PROCESS PLANS FOR LOCATIONS
5. SPACING OF ADDITIONAL BARS AROUND OPENINGS SHALL BE MINIMUM OF 2".
6. EXTEND ALL ADDITIONAL BARS TO NEXT INTERIOR WALL CL OR DEVELOPMENT LENGTH PER 5/S6 (WHICHEVER IS LONGER)
7. PROVIDE 2" CLR FROM REINF. EA SIDE OF OPNG.
8. REF DETAIL 3/S5 FOR EMBEDS CAST INTO CONCRETE LID UNDER CONTAINER LEG LOCATIONS

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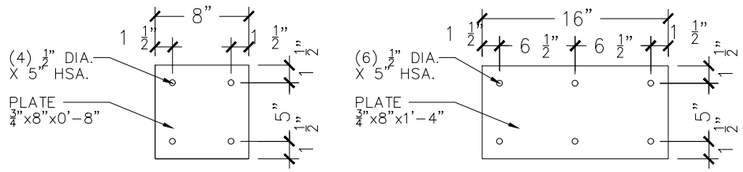
(303) 477-5915

SHEET TITLE: CONCRETE TANK LID PLAN

PROJECT NUMBER:	SCALE:	SHEET:
#2511551	1/4" = 1'	S4

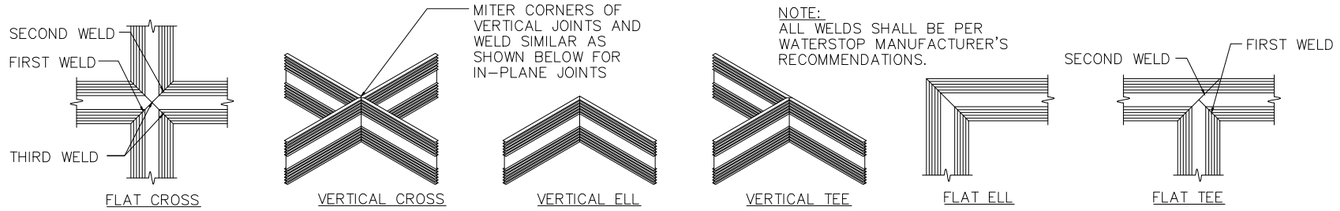


EMBED TYPE 1
(AT OUTSIDE CORNER LEGS)

EMBED TYPE 2
(AT INSIDE CORNER LEGS)

3/S5 LID EMBED AT CONTAINER LEGS

SCALE: NTS

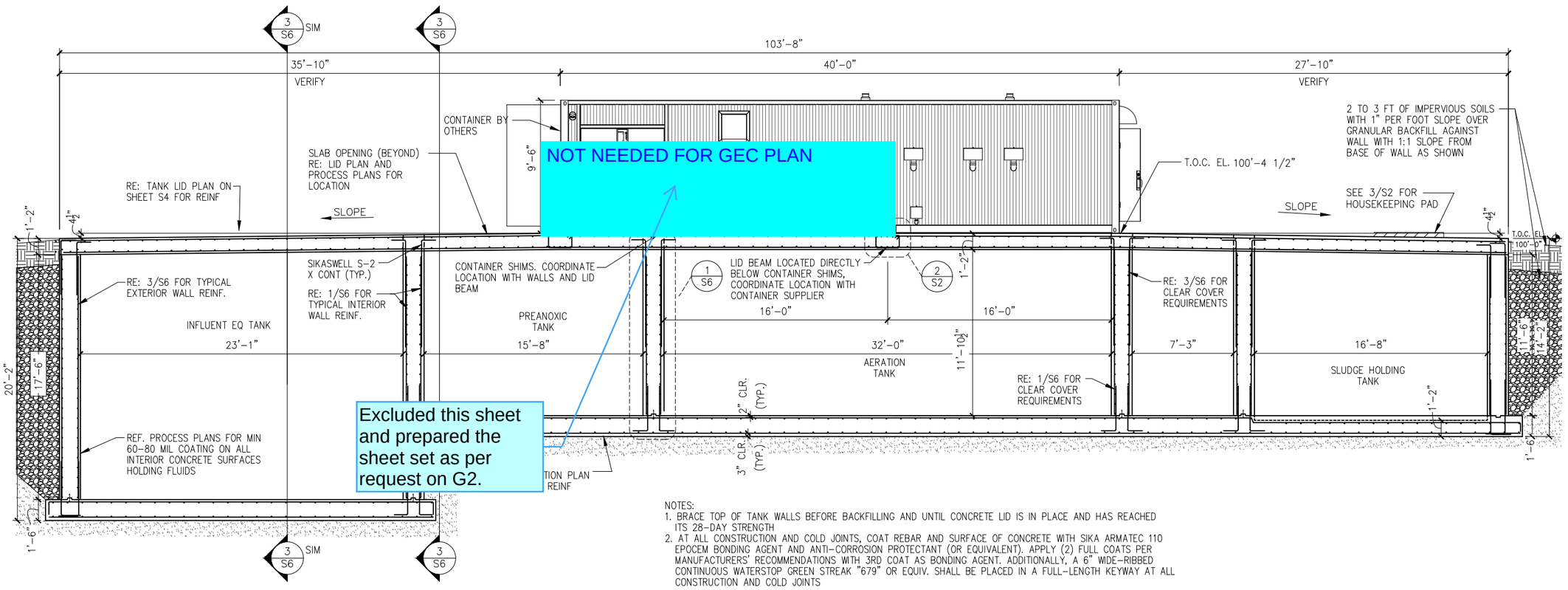


FLAT CROSS | VERTICAL CROSS | VERTICAL ELL | VERTICAL TEE | FLAT ELL | FLAT TEE

2/S5 WATERSTOP JOINTS

SCALE: NTS

NOTE: 6" WIDE RIBBED WATERSTOP, GREEN STREAK "679" OR EQUIV. 1" CLEAR REQ. ABOVE SLAB REINF.



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NOTES:
1. BRACE TOP OF TANK WALLS BEFORE BACKFILLING AND UNTIL CONCRETE LID IS IN PLACE AND HAS REACHED ITS 28-DAY STRENGTH
2. AT ALL CONSTRUCTION AND COLD JOINTS, COAT REBAR AND SURFACE OF CONCRETE WITH SIKA ARMATEC 110 EPOCEM BONDING AGENT AND ANTI-CORROSION PROTECTANT (OR EQUIVALENT). APPLY (2) FULL COATS PER MANUFACTURERS' RECOMMENDATIONS WITH 3RD COAT AS BONDING AGENT. ADDITIONALLY, A 6" WIDE-RIBBED CONTINUOUS WATERSTOP GREEN STREAK "679" OR EQUIV. SHALL BE PLACED IN A FULL-LENGTH KEYWAY AT ALL CONSTRUCTION AND COLD JOINTS

1/S5 CONCRETE TANK ELEVATION

SCALE: 3/16" = 1'-0"

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WALDEN CORPORATION
COLORADO SPRINGS, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
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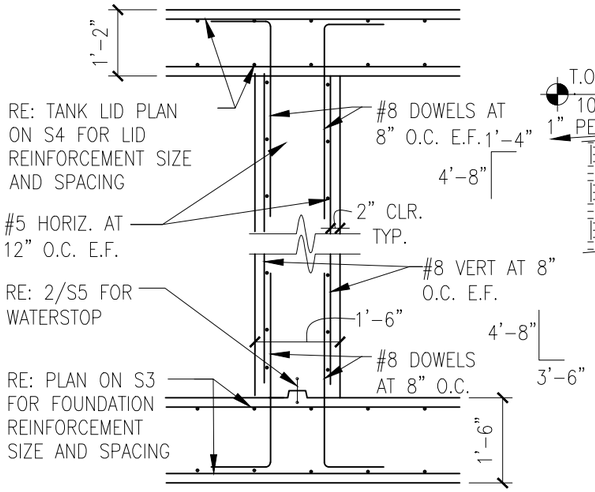
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: CONCRETE TANK SECTION

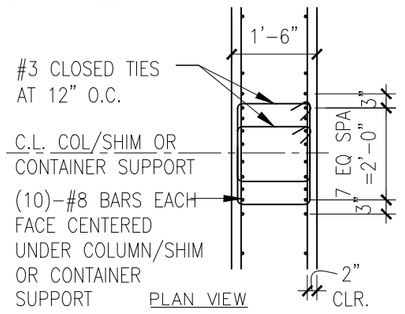
PROJECT NUMBER: #2511551
SCALE: 3/16" = 1'
SHEET: S5



DETAIL (INTERIOR WALL)

1 / S6

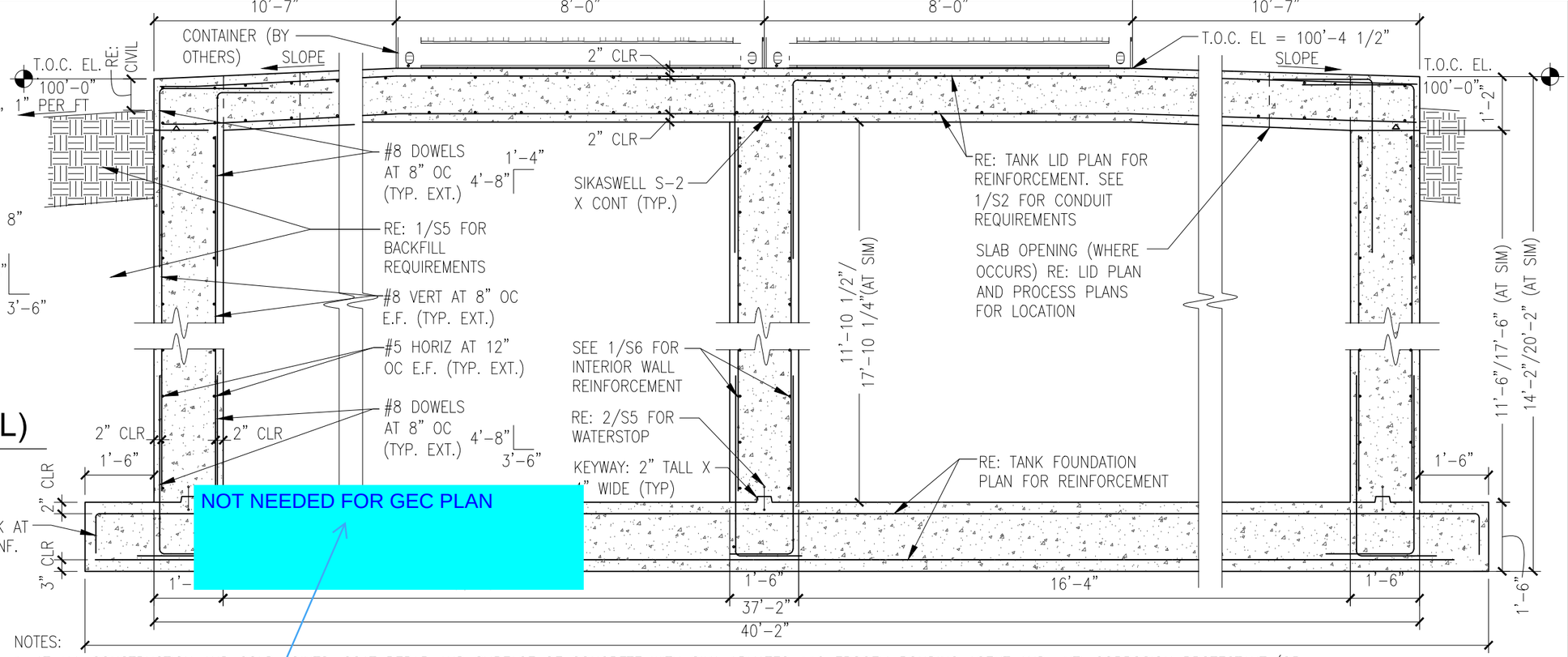
SCALE: 3/8" = 1'-0"



DETAIL (COLUMN IN WALL)

2 / S6

SCALE: 3/8" = 1'-0"



NOT NEEDED FOR GEC PLAN

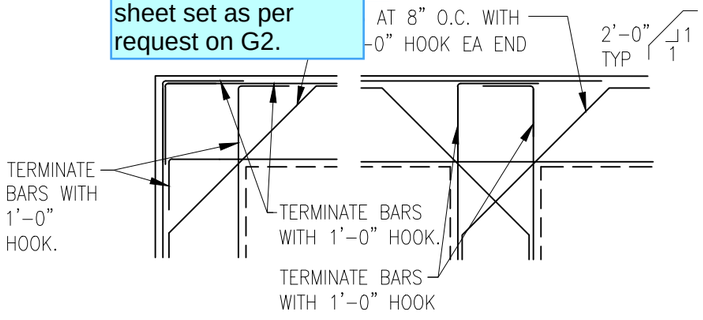
Excluded this sheet and prepared the sheet set as per request on G2.

NOTES:

1. AT ALL CONSTRUCTION AND COLD JOINTS, COAT REBAR AND SURFACE OF CONCRETE WITH SIKA ARMATEC 110 EPOCEM BONDING AGENT AND ANTI-CORROSION PROTECTANT (OR EQUIVALENT). APPLY (2) FULL COATS PER MANUFACTURERS' RECOMMENDATIONS WITH 3RD COAT AS BONDING AGENT. ADDITIONALLY, A 6" WIDE-RIBBED CONTINUOUS WATERSTOP GREEN STREAK "679" OR EQUIV. SHALL BE PLACED IN A FULL-LENGTH KEYWAY AT ALL CONSTRUCTION AND COLD JOINTS
2. BRACE TOP OF TANK WALLS BEFORE BACKFILLING AND UNTIL CONCRETE LID IS IN PLACE AND HAS REACHED ITS 28-DAY STRENGTH

ELEVATION SECTION

SCALE: 3/8" = 1'-0"



TYP. CONC. CORNER BARS

4 / S6

NO SCALE

STEEL REINF. LAP SCHEDULE		
BAR SIZE	CONCRETE LAP SPLICE f'c = 4500psi	
	TOP	OTHER
3	14	12
4	19	14
5	23	18
6	28	21
7	40	31
8	46	35
9	57	44
10	70	54

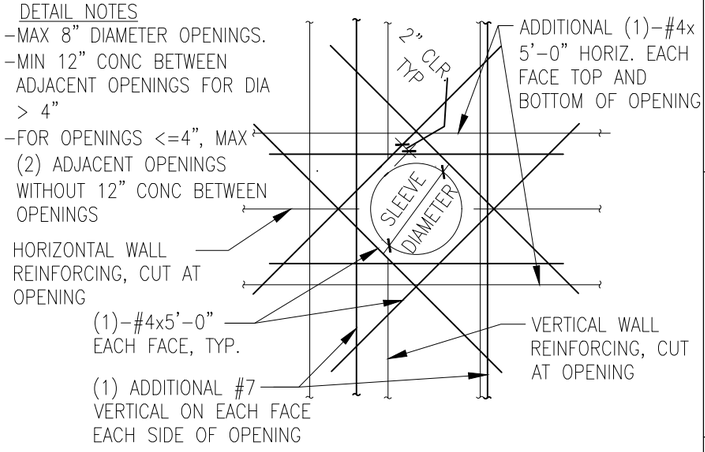
STEEL REINF. LAP SCHED.

5 / S6

NO SCALE

DETAIL NOTES

- MAX 8" DIAMETER OPENINGS.
- MIN 12" CONC BETWEEN ADJACENT OPENINGS FOR DIA > 4"
- FOR OPENINGS <=4", MAX (2) ADJACENT OPENINGS WITHOUT 12" CONC BETWEEN OPENINGS



OPENING IN TANK WALL

6 / S6

NO SCALE

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WALDEN CORPORATION
COLORADO SPRINGS, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: STRUCTURAL DETAILS

PROJECT NUMBER: #2511551

SCALE: PER DETAIL

SHEET: S6

ONE-LINE

- PANELBOARD
- WEATHERHEAD
- DRY-TYPE TRANSFORMER
- PADMOUNT UTILITY TRANSFORMER
- SHORT CIRCUIT VALUE
- WIRE SIZE
- METER AND CTs
- FUSED DISCONNECT
- NON-FUSED DISCONNECT
- MOTOR
- CIRCUIT BREAKER
- FUSED SWITCH
- MAGNETIC STARTER/CONTACTOR
- GENERATOR
- GROUND

POWER LEGEND

- CEILING MOUNTED JUNCTION BOX
- WALL MOUNTED JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- WM — WIREMOLD SURFACE RACEWAY
- NEMA-4X GROUND FAULT RECEPTACLE
- DUPLEX RECEPTACLE
- FOURPLEX RECEPTACLE
- ABOVE COUNTER MOUNTED RECEPTACLE
- GROUND FAULT RECEPTACLE
- CEILING MOUNTED RECEPTACLE
- FLOOR MOUNTED DUPLEX RECEPTACLE
- FLOOR MOUNTED FOURPLEX RECEPTACLE
- SPECIAL RECEPTACLE
- FLOOR MOUNTED SPECIAL RECEPTACLE
- TELEPHONE OUTLET
- T_W — WALL MOUNTED TELEPHONE OUTLET
- FLOOR MOUNTED TELEPHONE OUTLET
- COMBINATION VOICE/DATA
- TELEVISION OUTLET

CONTROLS LEGEND

- SV — SOLENOID VALVE
- FM — METER OR FLOW METER
- FT — TRANSMITTER
- LM — LEVEL METER
- GV — GLOBE VALVE

COLORADO LICENSED MICHAEL BRINGARD 62944 01/30/26 PROFESSIONAL ENGINEER

PROJECT GENERAL NOTES:

1. THE PROCESS BUILDING IS FACTORY DESIGNED, BUILT, TESTED AND DELIVERED TO THE SITE FULLY ASSEMBLED BY NEWTERRA. ALL WORK INSTALLED BY NEWTERRA SHALL MEET 2023 NEC INSPECTION CODES.
2. THE CONTRACTOR SHALL WORK WITH NEWTERRA MANUFACTURING TO PROVIDE AND INSTALL ALL ELECTRICAL AND CONTROLS COMPLETE WITH ASSOCIATED CIRCUITRY NECESSARY TO PERFORM THE INTENDED FUNCTIONS OF THE CONTRACT DOCUMENTS. ANY MATERIALS, DEVICES AND CIRCUITRY NOT SPECIFICALLY INDICATED BUT NECESSARY TO PERFORM INTENDED FUNCTIONS AND CORRECT OPERATION SHALL BE PROVIDED AND INSTALLED.
3. ELECTRICAL INSTALLATION OF POWER AND CONTROLS ON EQUIPMENT SKIDS SHALL BE BY THE MANUFACTURER INCLUDING ITEMS LEFT LOOSE FOR SHIPMENT.
4. ALL EQUIPMENT, DEVICE AND RACEWAY DIMENSIONS, PLANS AND ELEVATIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL USE SHOP DRAWINGS FOR PROPER LAYOUT, FOUNDATION AND PAD FOR FINAL INSTALLATION.
5. ALL OVERCURRENT DEVICES (CIRCUIT BREAKERS, FUSES, OVERLOADS, ETC.) SIZES INDICATED ARE ESTIMATED. THE CONTRACTOR SHALL PROVIDE AND INSTALL OVERCURRENT DEVICES SIZED AS REQUIRED BY THE NEC FOR THE CONNECTED LOAD AND ACTUAL EQUIPMENT RATING. ALL OVERCURRENT DEVICES SIZES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

SITE WORK:

1. ALL WORK SHALL BE COORDINATED WITH OTHER UNDER GROUND UTILITIES.
2. THE CONTRACTOR SHALL FOLLOW TRENCH DETAILS FOR CONDUIT AND WIRE.

SITE (POWER) TRENCH DETAIL:

1. FOR THE CONDUIT TRENCHES TO THE INSTALL SCHEDULE 40 PVC CONDUIT WITH RIGID ELBOWS. REBAR STAKE AND TIE THE CONDUIT AT 5' INTERVALS ABOVE THE BOTTOM OF THE TRENCH AND FLOW
2. COORDINATE TRENCH WIDTH WITH OWNER AND WHERE NEEDED CONDUITS C

NOT NEEDED FOR GEC PLAN

SERVICE:

1. ALL WORK SHALL CONFORM TO 2023 NATIONAL ELECTRIC CODE ALONG WI
2. ALL WORK INVOLVING THE UTILITY SHALL BE REVIEWED AND CONFIRMED, PRIOR TO ANY INSTALLATION. ALL WORK TO CONFORM TO MOUNTAIN VIEW ELECTRIC ASSOCIATION REQUIREMENTS.
3. ALL FEEDERS ARE TO BE COPPER.
4. PANEL SCHEDULES SHALL BE UPDATED AND TYPED PRIOR TO COMPLETION OF THE PROJECT.
5. THE E.C. SHALL SUBMIT ELECTRICAL DISTRIBUTION GEAR, AND GENERATOR SHOP DRAWINGS TO THE OWNER AND ENGINEER FOR APPROVAL PRIOR TO FINAL PURCHASE.
6. THE SERVICE EQUIPMENT SHALL BE MOUNTED C BUILDING CONTAINER.

Excluded this sheet and prepared the sheet set as per request on G2.

STAND-BY GENERATOR AND ATS:

1. THE GENERATOR SHALL BE INSTALLED WITH ALL D CONDUITS PER THE CODE.
2. REFER TO GENERATOR SPECIFICATION TABLE FOR DETAILS ON THE PROJECT SPECIFIC GENERATOR.
3. THE CONTRACTOR SHALL PROVIDE A CONCRETE HOUSEKEEPING PAD PER DETAIL.
4. SUPPLY AUTOMATIC TRANSFER SWITCHES IN THE AMPERAGE AND VOLTAGE SPECIFIED. SWITCHES SHALL BE (3) POLE WITH A SOLID NEUTRAL CONNECTION.
5. GROUND GENERATOR PER NEC 250-35(B) FOR A NON-SEPARATELY DERIVED SYSTEM.
6. CONTROL CONDUCTORS FROM THE GENERATOR TO THE REMOTE CONTROL PANEL AND ATS SWITCHES SHALL BE VERIFIED FROM THE MANUFACTURER AND INSTALLED PER CODE.
7. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE GENERATOR AND TRANSFER SWITCHES TO THE ENGINEER PRIOR TO PURCHASE.
8. THE CONTRACTOR IS RESPONSIBLE TO TEST AND SHOW PROPER OPERATION OF THE STANDBY SYSTEM TO THE OWNER.

GROUNDING:

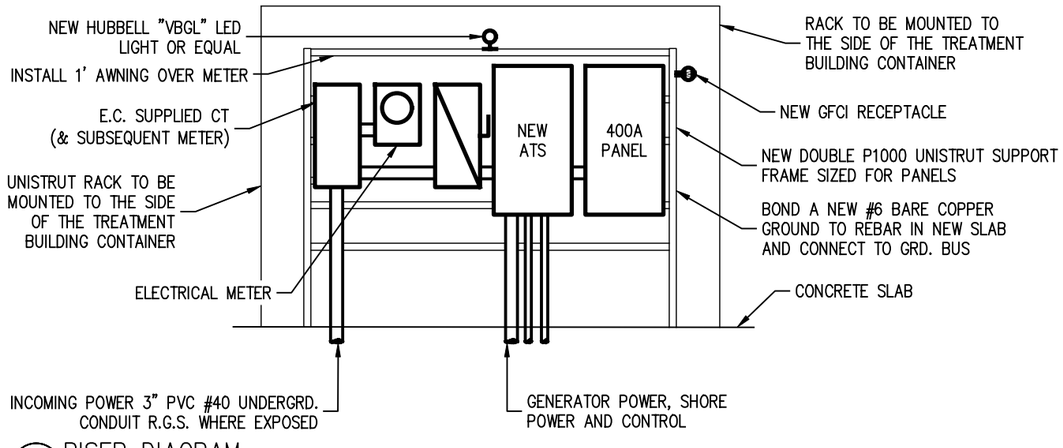
1. PROVIDE NEW MAIN SERVICE GROUNDING WITH THE FOLLOWING:
   - A WALL MOUNTED 2" X 8" X ¼" GROUND BAR MOUNTED ON WALL BY MAIN SERVICE BOND ALL CONDUCTORS HERE.
   - 2– ⅝" GROUND RODS AT ENTRANCE PER NEC.
   - INSTALL 20' OF BARE GROUND WIRE IN THE TRENCH TO THE GENERATOR AND COVER WITH CONCRETE.
   - BOND BUILDING STEEL OF NEW CONTAINERIZED PLANT.

DETAIL NOTES ALL SHEETS:

1. THE CONTRACTOR SHALL VERIFY THE NUMBER OF CONTROL CABLES BETWEEN THE GENERATOR AND ATS SWITCH. THERE WILL BE A SET OF GENERATOR START CONTACTS ALONG WITH A COMMUNICATIONS CONNECTION FOR GENERATOR ALARM SIGNALS TO THE SCADA SYSTEM. COORDINATE WITH NEWTERRA ON CONNECTION TO MASTER CONTROL PANEL.

CONTROL SYSTEM WORK BY ELECTRICAL CONTRACTOR:

1. ALL CONTROL DEVICES, CABLING AND CONNECTIONS INSIDE THE BUILDINGS WILL BE INSTALLED BY THE MANUFACTURER. E.C. TO CONNECT WIRING BETWEEN CONTAINERS.
2. ALL CONTROL DEVICES AND FACTORY SUPPLIED CABLING FOR THE TANKS SHALL BE SUPPLIED BY NEWTERRA.
3. THE ELECTRICAL CONTRACTOR SHALL INSTALL CONTROL CONDUITS BETWEEN THE INTERIOR PANELS AND THE TANKS.
4. THE E.C. SHALL SUPPLY THE CONTROL CABLING FROM THE BUILDING TO THE TANKS AS LISTED IN THE NEWTERRA SUBMITTAL AND THE SCHEDULE.
5. GENERATOR SEQUENCING: ALL EQUIPMENT



1 RISER DIAGRAM
SCALE: NOT TO SCALE

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PROJECT: WALDEN CORPORATION WWTP
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: ELECTRICAL NOTES & DETAILS

PROJECT NUMBER:	SCALE:	SHEET:
3774	NOT TO SCALE	E1

KEYED NOTES: (#)

1. 400A UTILITY CT & METER.
2. 400AF/400AT UTILITY 600V NEMA 4X FUSED SERVICE DISCONNECT. 100% RATED WITH CLASS T CURRENT LIMITING FUSES.
3. 400A, 480/277V, 3 PHASE, 4 WIRE, NEMA 4X AUTOMATIC TRANSFER SWITCH. EC TO ENSURE THIS POWER IS AVAILABLE PRIOR TO ANY CONSTRUCTION.
4. 400A, 480/277V, 3 PHASE, 4 WIRE, NEMA 4X PANEL.
5. U.G. POWER AND CONTROL CONDUITS FOR GENERATOR. ATS TO RECEIVE 480V AND 24VDC CONNECTIONS.
6. COORDINATE UNDERGROUND ROUTE FOR INCOMING 400A FEED FROM TRANSFER SWITCH.
7. CONFIRM VENTILATION WHERE NEEDED TO ENSURE IT IS 3' AWAY FROM ANY ELECTRICAL EQUIPMENT.
8. LOCATION OF AUTOMATIC BARSCREEN VFD ON THE WALL NEXT TO THE MCP. WIRING TO BE INTRINSICALLY SAFE.
9. MAINTENANCE LED LIGHT & GFI ON RACK 120V FROM NEW 120/208V PANEL.
10. EQUALIZATION TANK TNK-0301A. TANK TO RECEIVE 480V CONNECTIONS, 24VDC, AND INTRINSICALLY SAFE. SEE E4 FOR EQUIPMENT CONNECTION SCHEDULE. PARTS OF THIS AREA ARE CONSIDERED CLASS 1 DIV 1. COORDINATE WITH NEWTERRA FOR EXACT AREA.
11. EQUALIZATION TANK TNK-0301B. TANK TO RECEIVE 480V CONNECTIONS, 24VDC, AND INTRINSICALLY SAFE. SEE E4 FOR EQUIPMENT CONNECTION SCHEDULE. PARTS OF THIS AREA ARE CONSIDERED CLASS 1 DIV 1. COORDINATE WITH NEWTERRA FOR EXACT AREA.
12. PRE-ANOXIC TANK TNK-0401A. TANK TO RECEIVE 480V CONNECTIONS AND 24VDC. SEE E4 FOR EQUIPMENT CONNECTION SCHEDULE.
13. PRE-ANOXIC TANK TNK-0401B. TANK TO RECEIVE 480V CONNECTIONS AND 24VDC. SEE E4 FOR EQUIPMENT CONNECTION SCHEDULE.
14. AERATION TANK TNK-0501A. TANK TO RECEIVE 480V CONNECTIONS AND 24VDC. SEE E4 FOR EQUIPMENT CONNECTION SCHEDULE.
15. AERATION TANK TNK-0501B. TANK TO RECEIVE 480V CONNECTIONS AND 24VDC. SEE E4 FOR EQUIPMENT CONNECTION SCHEDULE.
16. POST-ANOXIC TANK TNK-0601A. TANK TO RECEIVE 480V CONNECTIONS AND 24VDC. SEE E4 FOR EQUIPMENT CONNECTION SCHEDULE.
17. POST-ANOXIC TANK TNK-0601B. TANK TO RECEIVE 120V CONNECTIONS AND 24VDC. SEE E4 FOR EQUIPMENT CONNECTION SCHEDULE.
18. SLUDGE HOLDING TANK TNK-0901. TANK TO RECEIVE 480V CONNECTIONS AND 24VDC CONNECTIONS. SEE E4 FOR EQUIPMENT CONNECTION SCHEDULE.
19. BREAK TANK TNK-1001. TANK TO RECEIVE 480V CONNECTIONS AND 24VDC. SEE E4 FOR EQUIPMENT CONNECTION SCHEDULE.
20. JUNCTION BOXES JB-TNK3A, JB-TNK3A-DC, AND JB-TNK3A-IS.
21. JUNCTION BOXES JB-TNK3B, JB-TNK3B-DC, AND JB-TNK3B-IS.
22. JUNCTION BOXES JB-TNK4A AND JB-TNK4A-DC.
23. JUNCTION BOXES JB-TNK4B AND JB-TNK4B-DC.
24. JUNCTION BOXES JB-TNK5A AND JB-TNK5A-DC.
25. JUNCTION BOXES JB-TNK5B AND JB-TNK5B-DC.
26. JUNCTION BOXES JB-TNK6A AND JB-TNK6A-DC.
27. JUNCTION BOXES JB-TNK6B AND JB-TNK6B-DC.
28. JUNCTION BOXES JB-TNK9 AND JB-TNK9-DC.
29. JUNCTION BOXES JB-TNK10 AND JB-TNK10-DC.
30. JUNCTION BOXES JB-SITE-IS, JB-SITE, AND JB-SITE-DC. THESE JUNCTION BOXES ARE FOR THE SPECIFIC PURPOSES OF SERVING THE BAR SCREEN AND TRAPEZOIDAL FLUME INLET FLOW TRANSMITTER. E.C. TO REVIEW ALL INSTALLATION REQUIREMENTS PRIOR TO PURCHASE AND INSTALLATION.
31. PROPOSED LOCATION OF 350KVA GENERATOR.
32. INCOMING UNDERGROUND POWER FROM UTILITY TRANSFORMER.
33. 60A CIRCUIT AND DC CONNECTIONS TO CHEMICAL BLDG. SEE SITE PLAN FOR CONTINUATION. PROVIDE (1) SPARE CONDUIT FOR EACH TYPE OF CONNECTION.
34. JUNCTION BOX JB-CHEM & JB-CHEM-DC.
35. GENERAL LOCATION OF UTILITY TRANSFORMER. NOT TO SCALE LOCATION. FOR EXACT PLACEMENT SEE E3.
36. GENERAL LOCATION OF BAR SCREEN AND FLUME. NOT TO SCALE LOCATION. FOR EXACT PLACEMENT SEE E3.

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MICHAEL BRUNGARDT
62944
01/30/26
PROFESSIONAL ENGINEER

GENERAL NOTES:

A. ALL CONDUCTORS SIZING IS BASED ON COPPER ONLY.

B. EC TO COORDINATE WITH UTILITY TO VERIFY SIZE AND AVAILABLE FAULT CURRENT FOR THE UTILITY TRANSFORMER. IF ANY VALUES EXCEED THE ONES LISTED ON THE SHORT CIRCUIT TABLE, CONTACT ENGINEER IMMEDIATELY TO REVISE DESIGN AND CALCULATIONS.

C. VOLTAGE DROP IS TO BE TESTED AND IF NEEDED, UPSIZED BY THE EC.

D. SEE INSTRUMENTATION TABLE ON E4 FOR POWER CONNECTION REQUIREMENTS, COMMUNICATION CABLE TYPES, CONDUIT SIZES, JUNCTION BOX ROUTING, HAZARDOUS AREA CLASSIFICATIONS AND TERMINATION INFORMATION.

E. ALL CONDUIT PATHWAYS SHOWN IN THIS DRAWING ARE DIAGRAMMATIC ONLY. EC TO DETERMINE THE BEST ROUTING FOLLOWING THE INSTRUMENTATION SCHEDULE ON PAGE E4.

F. THE DESIGN LENGTH OF FEEDERS FROM THE UTILITY TRANSFORMER TO THE CT CABINET AND METER IS 85'. EC TO FIELD CONFIRM EXACT LENGTH OF FEEDERS AND REPORT ANY MAJOR DISCREPANCY TO EOR FOR REVISED CALCULATIONS AND DESIGN.

G. ALL EXTERIOR CONNECTIONS GOING BEYOND THE DECK TO COME WITH (1) 1" PVC SPARE CONDUIT WITH PULL STRING. EXTERIOR CONNECTION INCLUDE BUT ARE NOT LIMITED TO: TANKS, EQ PUMPS, GENERATORS & BAR SCREENS.

H. ALL PUMP CONTROLS, INTERNAL GEAR, ETC. INSIDE OF THE NEWTERRA MODULAR TREATMENT SYSTEM ARE OUT OF SCOPE OF THESE PLANS. CONFIRM REQUIREMENTS WITH CONTAINER MANUFACTURER PRIOR TO BEGINNING WORK.

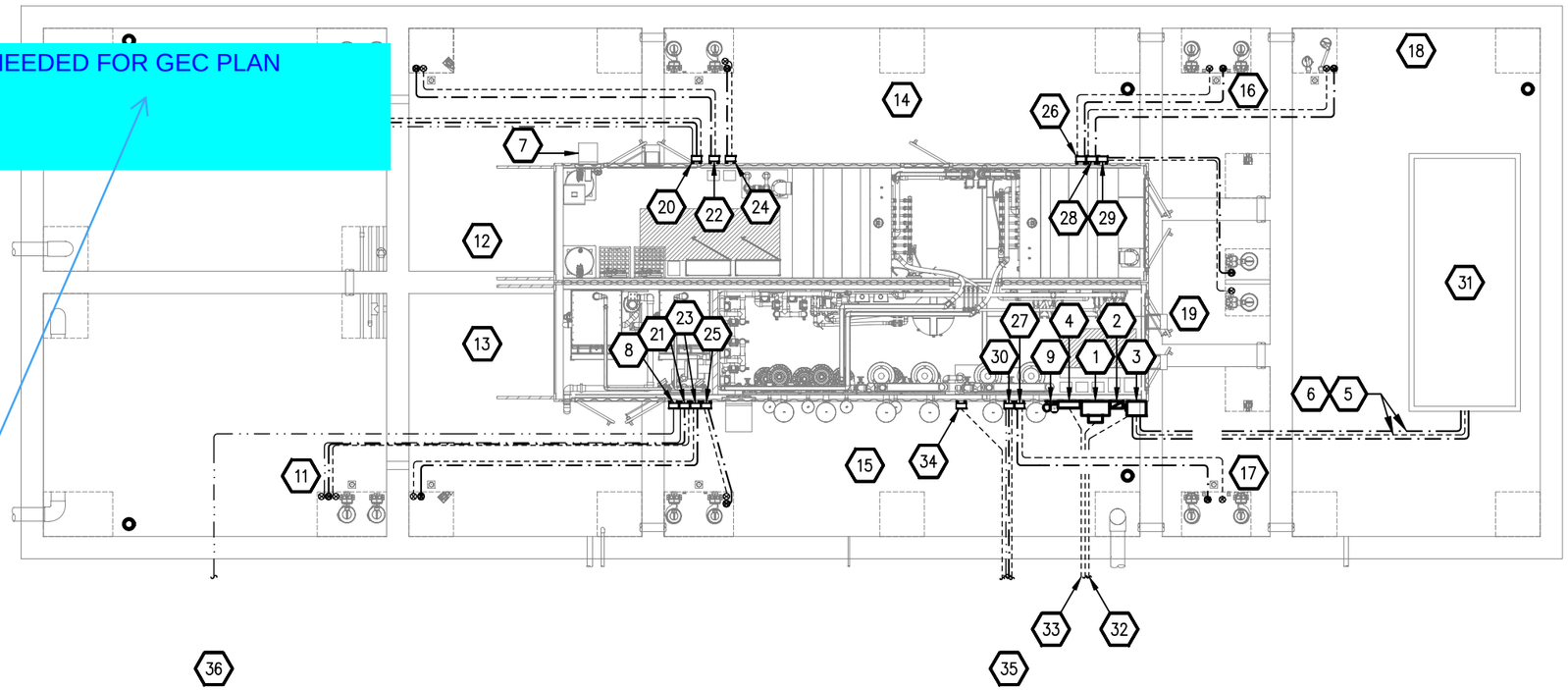
I. CONTRACTOR SHALL SUBMIT PROPOSED UNDERGROUND CONDUIT AND DECK CONDUIT LAYOUT DIAGRAM FOR REVIEW

J. ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, JUNCTION BOXES, IS TO BE RATED A MINIMUM OF NEMA 4X.

K. ALL CONDUIT SHALL USE SWEEPS AND NOT 90'S.

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.



1 WASTEWATER TREATMENT PLANT POWER PLAN
SCALE: 1" = 10'

REV. No:	DATE:	BY:	REVISION DESCRIPTION:

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN CORPORATION WWTP
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: ELECTRICAL WWTP PLAN

PROJECT NUMBER:	SCALE:	SHEET:
3774	1" = 10'	E2

GENERAL NOTES:

A. ALL CONDUCTORS SIZING IS BASED ON COPPER ONLY.

B. EC TO COORDINATE WITH LOCAL UTILITY TO VERIFY SIZE AND AVAILABLE FAULT CURRENT FOR THE UTILITY TRANSFORMER. IF ANY VALUES EXCEED THE ONES LISTED ON THE SHORT CIRCUIT TABLE, CONTACT ENGINEER IMMEDIATELY TO REVISE DESIGN AND CALCULATIONS.

C. VOLTAGE DROP IS TO BE TESTED AND IF NEEDED, UPSIZED BY THE EC.

D. SEE INSTRUMENTATION TABLE ON E4 FOR POWER CONNECTION REQUIREMENTS, COMMUNICATION CABLE TYPES, CONDUIT SIZES, JUNCTION BOX ROUTING, HAZARDOUS AREA CLASSIFICATIONS AND TERMINATION INFORMATION.

E. ALL CONDUIT PATHWAYS SHOWN IN THIS DRAWING ARE DIAGRAMMATIC ONLY. EC TO DETERMINE THE BEST ROUTING FOLLOWING THE INSTRUMENTATION SCHEDULE ON PAGE E4.

F. ALL EXTERIOR CONNECTIONS TO COME WITH (1) 1" PVC SPARE CONDUIT WITH PULL STRING.

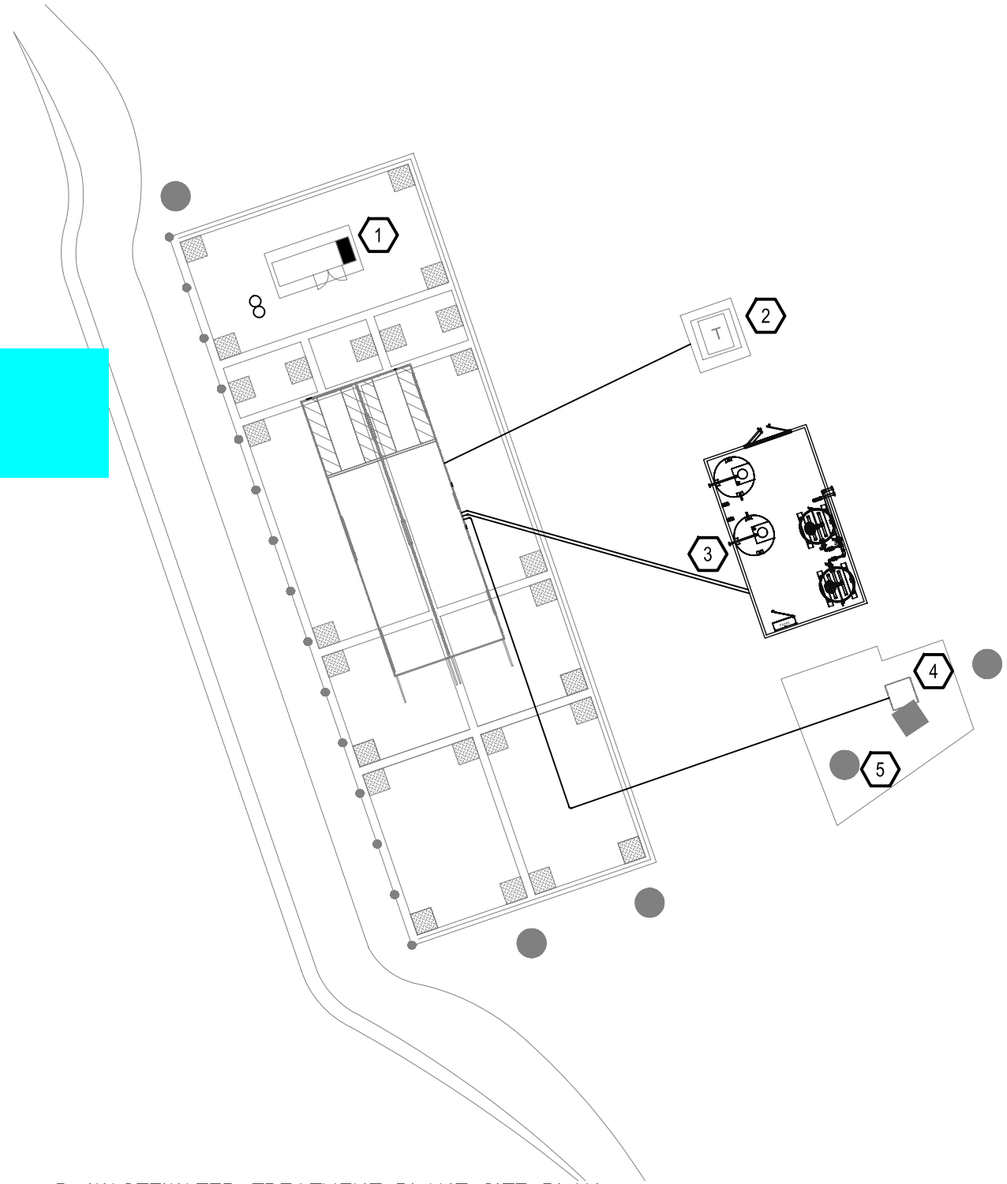
G. CONDUIT ROUTING IS DIAGRAMMATIC ONLY. EC TO INSTALL CONDUIT RUNS SUCH THAT GENERATOR AND POWER SUPPLY RUNS DO NOT CROSS WITHIN THE DECK.

NOT NEEDED FOR GEC PLAN

KEYED NOTES: (#)

1. PROPOSED LOCATION OF GENERATOR PAD. GENE ON EQUIPMENT PAD.
2. PROPOSED LOCATION OF 300KVA 480V 3P PAD MOUNT UTILITY TRANSFORMER. FOLLOW MOUNTAIN VIEW ELECTRIC ASSOCIATION BLUE BOOK FOR INSTALLATION REQUIREMENTS. APPROXIMATE CONDUIT RUN LENGTH OF 85'. VERIFY IN FIELD PRIOR TO PURCHASE AND INSTALL. IF THERE ARE DISCREPANCIES IN THIS DISTANCE THE CONTRACTOR HAS A RIGHT TO RE-PRICE THIS ITEM.
3. PROVIDE 60A 3PH UNDERGROUND CIRCUIT FROM MAIN PANEL 'MDP' TO SUB-PANEL IN NEW CHEMICAL BUILDING AS SHOWN. RUN 24VDC CONNECTIONS IN 1" CONDUITS FROM NEWTERRA CONTROL PANEL TO CHEMICAL ROOM EQUIPMENT. CONFIRM EXACT LOCATION AND CIRCUIT L AND CONDUIT AS NECESSARY T PROVIDE AT LEAST (2) SPARE C CONTROLS, (1) EACH.
4. APPROXIMATE LOCATION OF BAR POWER, DATA, AND MANUFACTU PER MANUFACTURER SPECIFICATIONS. PROVIDE AN ADDITIONAL 1" CONDUIT FROM NEW VFD TO CONTROL PANEL FOR DIGITAL INPUTS PER MANUFACTURES SPECIFICATION.
5. PROVIDE POWER AND DATA MANUFACTURING CABLE CONNECTING TRAPEZOIDAL FLUME TO METERING MANHOLE. PROVIDE C1D2 CONDUIT AND SEALS FOR MANUFACTURES CABLE.

Excluded this sheet and prepared the sheet set as per request on G2.



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01/30/26
PROFESSIONAL ENGINEER

N

1 WASTEWATER TREATMENT PLANT SITE PLAN
SCALE: 1" = 250'

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AquaWorks DBO INC
DESIGN BUILD OPERATE

PROJECT: WALDEN CORPORATION WWTP
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: ELECTRICAL SITE PLAN

PROJECT NUMBER:	SCALE:	SHEET:
3774	1" = 250'	E3

TANK POWER & INSTRUMENT CONNECTION

TANK #	TAG	480V	120V	24V DC	IS	ITEM		AREA CLASSIFICATION	CONNECTION	TERMINATION
0301A	LSHH-301A	-	-	-	YES	LEVEL SWITCH HIGH HIGH	SEE NOTE 1	CL1, DIV1 SEAL-OFF	JB-TNK3A-IS	WWTP MCP
	LSLL-0301A	-	-	-	YES	LEVEL SWITCH LOW LOW	SEE NOTE 1		JB-TNK3A-IS	WWTP MCP
	LT-0301A	-	-	-	YES	LEVEL TRANSMITTER	SEE NOTE 1		JB-TNK3A-IS	WWTP MCP
	P-0301A	YES	-	-	-	EQUALIZATION TANK A PUMP (DUTY)	4#12, 1#12G, 1" RIGID		JB-TNK3A	WWTP MPP
	P-0302A	YES	-	-	-	EQUALIZATION TANK A PUMP (STANDBY)	4#12, 1#12G, 1" RIGID		JB-TNK3A	WWTP MPP
	TSH-P0301A	-	-	YES	-	DUTY PUMP A TEMP SWITCH	SEE NOTE 1		JB-TNK3A-DC	WWTP MCP
	TSH-P0301A	-	-	YES	-	DUTY PUMP A TEMP SWITCH	SEE NOTE 1		JB-TNK3A-DC	WWTP MCP
	P0301A-LD	-	-	YES	-	EQUALIZATION TANK A LEAK DETECTOR	SEE NOTE 1		JB-TNK3A-DC	WWTP MCP
	P0302A-LD	-	-	YES	-	EQUALIZATION TANK A LEAK DETECTOR	SEE NOTE 1		JB-TNK3A-DC	WWTP MCP
0301B	LSHH-301B	-	-	-	YES	LEVEL SWITCH HIGH HIGH	SEE NOTE 1	CL1, DIV1 SEAL-OFF	JB-TNK3A-IS	WWTP MCP
	LSLL-0301B	-	-	-	YES	LEVEL SWITCH LOW LOW	SEE NOTE 1		JB-TNK3A-IS	WWTP MCP
	LT-0301B	-	-	-	YES	LEVEL TRANSMITTER	SEE NOTE 1		JB-TNK3A-IS	WWTP MCP
	P-0301B	YES	-	-	-	EQUALIZATION TANK B PUMP (DUTY)	4#12, 1#12G, 1" RIGID		JB-TNK3A	WWTP MPP
	P-0302B	YES	-	-	-	EQUALIZATION TANK B PUMP (STANDBY)	4#12, 1#12G, 1" RIGID		JB-TNK3A	WWTP MPP
	P-0301B-LD	-	-	YES	-	EQUALIZATION TANK B LEAK DETECTOR	SEE NOTE 1		JB-TNK3A-DC	WWTP MCP
	P-0302B-LD	-	-	YES	-	EQUALIZATION TANK B LEAK DETECTOR	SEE NOTE 1		JB-TNK3A-DC	WWTP MCP
	TSH-P0301A	-	-	YES	-	DUTY PUMP B TEMP SWITCH	SEE NOTE 1		JB-TNK3A-DC	WWTP MCP
	TSH-P0302A	-	-	YES	-	STANDBY PUMP B TEMP SWITCH	SEE NOTE 1		JB-TNK3A-DC	WWTP MCP
0401A	LSHH-0401A	-	-	YES	-	LEVEL SWITCH HIGH HIGH	SEE NOTE 1	GENERAL PURPOSE	JB-TNK4A-DC	WWTP MCP
	LSLL-0401A	-	-	YES	-	LEVEL SWITCH LOW LOW	SEE NOTE 1		JB-TNK4A-DC	WWTP MCP
	TSH-M0401A	-	-	YES	-	PRE-ANOXIC MIXER A TEMP SWITCH	SEE NOTE 1		JB-TNK4A-DC	WWTP MCP
	MX-0401A	YES	-	-	-	PRE-ANOXIC MIXER A	4#12, 1#12G, 1" RIGID		JB-TNK4A	VFD-M0401A
0401B	LSHH-0401B	-	-	YES	-	LEVEL SWITCH HIGH HIGH	SEE NOTE 1	GENERAL PURPOSE	JB-TNK4B-DC	WWTP MCP
	LSLL-0401B	-	-	YES	-	LEVEL SWITCH LOW LOW	SEE NOTE 1		JB-TNK4B-DC	WWTP MCP
	TSH-M0401B	-	-	YES	-	PRE-ANOXIC MIXER B TEMP SWITCH	SEE NOTE 1		JB-TNK4B-DC	WWTP MCP
	MX-0401B	YES	-	-	-	PRE-ANOXIC MIXER B	4#12, 1#12G, 1" RIGID		JB-TNK4B	VFD-M0401B
0501A	LSHH-0501A	-	-	YES	-	LEVEL SWITCH HIGH HIGH	SEE NOTE 1	GENERAL PURPOSE	JB-TNK5A-DC	WWTP MCP
	LSLL-0501A	-	-	YES	-	LEVEL SWITCH LOW LOW	SEE NOTE 1		JB-TNK5A-DC	WWTP MCP
	TSH-P0501A		-	YES	-	DUTY PUMP A TEMP SWITCH	SEE NOTE 1		JB-TNK5A-DC	WWTP MCP
	P-0501A	YES	-	-	-	AERATION TANK RECIRC PUMP A (DUTY)	4#12, 1#12G, 1" RIGID		JB-TNK5A	WWTP MPP
	TSH-P0502A	-	-	YES	-	STANDBY PUMP A TEMP SWITCH	SEE NOTE 1		JB-TNK5A-DC	WWTP MCP
	P-0502A	YES	-	-	-	AERATION TANK RECIRC PUMP A (STANDBY)	4#12, 1#12G, 1" RIGID		JB-TNK5A	WWTP MPP
	AIT-0501/2/3A	-	-	YES	-	pH, DO, TSS TRANSMITTER A	SEE NOTE 1		JB-TNK5A-DC	WWTP MCP
0501B	LSHH-0501B	-	-	YES	-	LEVEL SWITCH HIGH HIGH	SEE NOTE 1	GENERAL PURPOSE	JB-TNK5B-DC	
	LSLL-0501B	-	-	YES	-	LEVEL SWITCH LOW LOW	SEE NOTE 1		JB-TNK5B-DC	
	TSH-P0501B		-	YES	-	DUTY PUMP B TEMP SWITCH	SEE NOTE 1		JB-TNK5B-DC	
	P-0501B	YES	-	-	-	AERATION TANK RECIRC PUMP B (DUTY)	4#12, 1#12G, 1" RIGID		JB-TNK5B	
	TSH-P0502B	-	-	YES	-	STANDBY PUMP B TEMP SWITCH	SEE NOTE 1		JB-TNK5B-DC	
	P-0502B	YES	-	-	-	AERATION TANK RECIRC PUMP B (STANDBY)	4#12, 1#12G, 1" RIGID		JB-TNK5B	
	AIT-0501/2/3B	-	-	YES	-	pH, DO, TSS TRANSMITTER B	SEE NOTE 1		JB-TNK5B-DC	
0601A	LT-0601A	-	-	YES	-	LEVEL TRANSMITTER POST-ANOXIC TANK A	SEE NOTE 1	GENERAL PURPOSE	JB-TNK6A-DC	
	TSH-M0601A	-	-	YES	-	POST-ANOXIC MIXER A TEMP SWITCH	SEE NOTE 1		JB-TNK6A-DC	WWTP MCP
	MX-0601A	YES	-	-	-	POST-ANOXIC MIXER A	4#12, 1#12G, 1" RIGID		JB-TNK6A	VFD-M0601A
	LSHH-0601A	-	-	YES	-	LEVEL SWITCH HIGH HIGH	SEE NOTE 1		JB-TNK6A-DC	WWTP MCP
	LSLL-0601A	-	-	YES	-	LEVEL SWITCH LOW LOW	SEE NOTE 1		JB-TNK6A-DC	WWTP MCP
	TSH-P0601A	-	-	YES	-	DUTY PUMP A TEMP SWITCH	SEE NOTE 1		JB-TNK6A-DC	WWTP MCP
	P-0601A	YES	-	-	-	MEMBRANE FEED PUMP A (DUTY)	4#12, 1#12G, 1" RIGID		JB-TNK6A	WWTP MPP
	TSH-P0602A	-	-	YES	-	STANDBY PUMP A TEMP SWITCH	SEE NOTE 1		JB-TNK6A-DC	WWTP MCP
	P-0602A	YES	-	-	-	MEMBRANE FEED PUMP A (STANDBY)	4#12, 1#12G, 1" RIGID		JB-TNK6A	WWTP MPP
0601B	LT-0601B	-	-	YES	-	LEVEL TRANSMITTER POST-ANOXIC TANK B	SEE NOTE 1	GENERAL PURPOSE	JB-TNK6B-DC	WWTP MCP
	TSH-M0601B	-	-	YES	-	POST-ANOXIC MIXER A TEMP SWITCH	SEE NOTE 1		JB-TNK6B-DC	WWTP MCP
	MX-0601B	YES	-	-	-	POST-ANOXIC MIXER B	4#12, 1#12G, 1" RIGID		JB-TNK6B	VFD-M0601B
	LSHH-0601B	-	-	YES	-	LEVEL SWITCH HIGH HIGH	SEE NOTE 1		JB-TNK6B-DC	WWTP MCP
	LSLL-0601B	-	-	YES	-	LEVEL SWITCH LOW LOW	SEE NOTE 1		JB-TNK6B-DC	WWTP MCP
	TSH-P0601B	-	-	YES	-	DUTY PUMP B TEMP SWITCH	SEE NOTE 1		JB-TNK6B-DC	WWTP MCP
	P-0601B	YES	-	-	-	MEMBRANE FEED PUMP B (DUTY)	4#12, 1#12G, 1" RIGID		JB-TNK6B	WWTP MPP
	TSH-P0602B	-	-	YES	-	STANDBY PUMP B TEMP SWITCH	SEE NOTE 1		JB-TNK6B-DC	WWTP MCP
	P-0602B	YES	-	-	-	MEMBRANE FEED PUMP B (STANDBY)	4#12, 1#12G, 1" RIGID		JB-TNK6B	WWTP MPP
0901	LSHH-0901	-	-	YES	-	LEVEL SWITCH HIGH HIGH	SEE NOTE 1	GENERAL PURPOSE	JB-TNK9-DC	WWTP MCP
	LSLL-0901	-	-	YES	-	LEVEL SWITCH LOW LOW	SEE NOTE 1		JB-TNK9-DC	WWTP MCP
	LT-0901	-	-	YES	-	LEVEL TRANSMITTER SLUDGE HOLDING TANK	SEE NOTE 1		JB-TNK9-DC	WWTP MCP
	P-0901A	-	YES	-	-	DECANTING PUMP (LEAD)	2#12, 1#12G, 1" RIGID		JB-TNK9	WWTP MPP
	P-0901B	-	YES	-	-	DECANTING PUMP (LAG)	2#12, 1#12G, 1" RIGID		JB-TNK9	WWTP MPP
1001	LSHH-1001	-	-	YES	-	LEVEL SWITCH HIGH HIGH	SEE NOTE 1	GENERAL PURPOSE	JB-TNK10-DC	WWTP MCP
	LSLL-1001	-	-	YES	-	LEVEL SWITCH LOW LOW	SEE NOTE 1		JB-TNK10-DC	WWTP MCP
	LT-1001	-	-	YES	-	LEVEL TRANSMITTER BREAK TANK	SEE NOTE 1		JB-TNK10-DC	WWTP MCP
	TSH-1001A	-	-	YES	-	DUTY PUMP TEMP SWITCH	SEE NOTE 1		JB-TNK10-DC	WWTP MCP
	P-1001A	YES	-	-	-	FILTER FEED PUMP (DUTY)	4#12, 1#12G, 1" RIGID		JB-TNK10	VFD-P1001A
	TSH-1001B	-	-	YES	-	STANDBY PUMP TEMP SWITCH	SEE NOTE 1		JB-TNK10-DC	WWTP MCP
	P-1001B	YES	-	-	-	FILTER FEED PUMP (STANDBY)	4#12, 1#12G, 1" RIGID		JB-TNK10	VFD-P1001B
SITE	FIT-0101	-	-	YES	-	PARSHALL FLUME INLET FLOW TRANSMITTER	SEE NOTE 1	GENERAL PURPOSE	JB-SITE-DC	WWTP MCP
	CHEM BLDG		YES	-	-	CHEMICAL BUILDING LINE HEAT TRACE	4#12, 1#12G, 1" RIGID	CL1, DIV1 SEAL-OFF	JB-SITE	WWTP MPP
	BAR SCREEN		YES	-	-	BAR SCREEN HEAT TRACE	4#12, 1#12G, 1" RIGID		JB-SITE	WWTP MPP
	BAR SCREEN	YES	-	-	-	BAR SCREEN POWER	4#12, 1#12G, 1" RIGID		JB-SITE	WWTP MPP
	BAR SCREEN	-		-	YES	BAR SCREEN CONTROL	SEE NOTE 1		JB-SITE-IS	WWTP MCP
CHEM	PANEL	YES	-	-	-	60A PANEL CONNECTION	SEE FEEDER SCHED	GENERAL PURPOSE	JB-CHEM	WWTP MPP
	FIT-1101	-	-	YES	-	FLOW INDICATING TRANSMITTER	SEE NOTE 1		JB-CHEM-DC	WWTP MCP
	LT-6101	-	-	YES	-	LEVEL TRANSMITTER ALUM CHEMICAL TANK	SEE NOTE 1		JB-CHEM-DC	WWTP MCP
	LT-6102	-	-	YES	-	LEVEL TRANSMITTER CAUSTIC CHEMICAL TANK	SEE NOTE 1		JB-CHEM-DC	WWTP MCP
	P-6101A	-	YES	-	-	ALUM CHEMICAL METERING PUMP A	2#12, 1#12G, 1" RIGID		EQUIPMENT	CHEM MPP
	P-6101B	-	YES	-	-	ALUM CHEMICAL METERING PUMP B	2#12, 1#12G, 1" RIGID		EQUIPMENT	CHEM MPP

WWTP Generator Specifications - Walden

Manufacturer	mtu-Rolls-Royce	
Model	mtu 6R0225 DS350	
Voltage	480/277	V
Duty	Stand-By	
Size (Rated for Site)	280/350	kW/kVA
Phase/Wire	3 Phase/4 Wire	
Engine	13.5L - 4 Cycle	
Fuel	Diesel	
Site Elevation	7400	FT
Ambient Temp	85°F	Deg
Low Temp Design	-20°F	Deg
Max Starting kVA	1661	kVA
Maximum Voltage Dip	30%	%
Sound	76.5dB(A)	
Exhaust	Internal w/ Top Exhaust	
Emergency Power Off Switch	Qty 1 - N4 w/ Cover	
Housing	Level 3 Sound Steel	
Width	84	Inches
Length	231	Inches
Height	123	Inches
UL Base Tank	700 Gallons - 24 HRw/ State OPV & CO Pressure Test	
Approximate Weight	15420	Lbs
Accessories:	Extreme Cold Weather Kit with Snow	
Extreme Cold Weather Kit with Snow		
Block Heater	Yes	-20°F
Battery Charger/Heat	Yes	10A
Remote Annuciator	Yes, no I/O.	Gen Mounted (4) Relay Kit
Automatic Transfer Switch.	Yes	
ATS Cable/Annunciator	TBD	

UNDERGROUND CONDUIT SCHEDULE

NOT NEEDED FOR GEC PLAN

Block Heater	1"	1	-	-	-	-
Battery Charger	1"	1	-	-	-	-
Chemical Building	1.25"	1	1"	1	2	1.25"

Underground Shop Drawing Needs to be Prepared

MAIN SERVICE CALCULATION — 480 Volts

Computed Loads		Demand Factor	
Lighting	0.5 kVA	125% =	0.6 kVA
Receptacle (1st 10 kW)	1.6 Kva	100% =	1.6 kVA
Receptacle (Over 10 kW)	0.0 kVA	50% =	0.0 kVA
Motor Loads	185.7 kVA	100% =	185.7 kVA
Largest Motor	22.4 kVA	125% =	28.0 kVA
Fixed Electric Heat	20.0 kVA	100% =	20.0 kVA
Other Load	32.3 kVA	100% =	32.3 kVA
On 400A 100% Rated Service fused to 300A		*TOTAL DEMAND*	268.3 kVA
		3Φ Load	322.7 Amps

Excluded this sheet and prepared the sheet set as per request on G2.

FAULT CURRENT AND VOLTAGE DROP CALCULATION TABLE

POINT	LOCATION DESCRIPTION	LENGTH (L) (ft)	LOAD ON FEEDER (Amps)	POWER FACTOR (%)	VOLTAGE (E-L)	PHASE	WIRE SIZE	CONDUCTOR MATERIAL	CONDUCTOR TYPE	CONDUIT MATERIAL	VOLTAGE CLASS	# OF PARALLEL RUNS	Isc AVAILABLE UPSTREAM (SEE NOTE 5)	Isc AT EQUIP (I²t=n) OR (I²t=c)	VOLTAGE AT START (V_s)	TOTAL % VD	POINT
F0	XFMR	--	--	--	--	--	--	--	--	--	--	--	--	22,500	480	--	F0
F1	CT METER	50	400	90%	480	3	3X	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	2	22,500	19,637	480	0.3%	F1
F2	DISCONNECT	5	400	90%	480	3	3X	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	2	19,637	19,391	478	0.3%	F2
F3	ATS	5	400	90%	480	3	3X	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	2	19,391	19,150	478	0.4%	F3
F4	MDP	5	400	90%	480	3	3X	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	2	19,150	18,915	478	0.4%	F4
F5	CHEMCAL ROOM	50	100	90%	480	3	1	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	1	18,915	12,996	478	0.7%	F5

NOTES:
1. ALL CALCULATIONS WERE DONE USING BUSSMAN "POINT-TO-POINT" METHOD.
2. REFER TO PLANS FOR ASSUMED UTILITY TRANSFORMER SIZE UTILIZED FOR CALCULATIONS.
3. TRANSFORMER IMPEDANCES USED IN THE CALCULATIONS WERE TAKEN FROM EATON'S PUBLISHED IMPEDANCES FOR DOE 2016 DRY-TYPE TRANSFORMERS.
4. CONDUCTOR LENGTHS INDICATED IN THIS SCHEDULE ARE FOR THE PURPOSES OF FAULT CURRENT CALCULATIONS ONLY. THESE LENGTHS ASSUME WORST CASE SHORTEST DISTANCE CONDITIONS AND SHOULD NOT BE UTILIZED BY THE ELECTRICAL CONTRACTOR FOR BIDDING PURPOSES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ESTIMATING AND MEASURING ACTUAL FIELD CONDITION LENGTHS AS PART OF THE BID PROCESS.

FEEDER SCHEDULE - COPPER

KEY/ AMPS	FEEDER CONDUIT AND CONDUCTORS					
SERVICE ENTRANCE FEEDERS						
400N	2[4#3/0, 2"C]					
EQUIPMENT FEEDERS						
100NGX	4#1, 1#8G, 1-1/2"C	100NG	3#1, 1#8G, 1-1/2"C	110G	2#1, 1#8G, 1-1/2"C	
350NGX	4#500, 1#3G, 3-1/2"C	350NG	3#500, 1#3G, 3-1/2"C	350G	2#500, 1#3G, 3"C	
400NGX	2[4#3/0, 1#3G, 2-1/2"C]	400NG	2[3#3/0, 1#3G, 2-1/2"C]	400G	2[2#3/0, 1#3G, 2"C]	
GROUNDING CONDUCTORS						

NOTES:
1. FEEDER FOR SECONDARY OF SEPARATELY DERIVED SYSTEM (SDS). GROUND SIZE PER NEC TABLE INCLUDED IN ARTICLE 250.66.
2. ALL CONDUCTORS ARE SINGLE CONDUCTOR COPPER THWN UNLESS NOTED OTHERWISE. AMPACITY BASED ON THE NEC TABLE INCLUDED IN ARTICLE 310.
3. ALL CONDUITS ARE EMT UNLESS NOTED OTHERWISE, FILL RATIOS BASED ON NEC ANNEX C TABLE C.1.

ABBREVIATIONS	
MECH	SEE MECH SCHEDULE
XFMR	SEE XFMR SCHEDULE

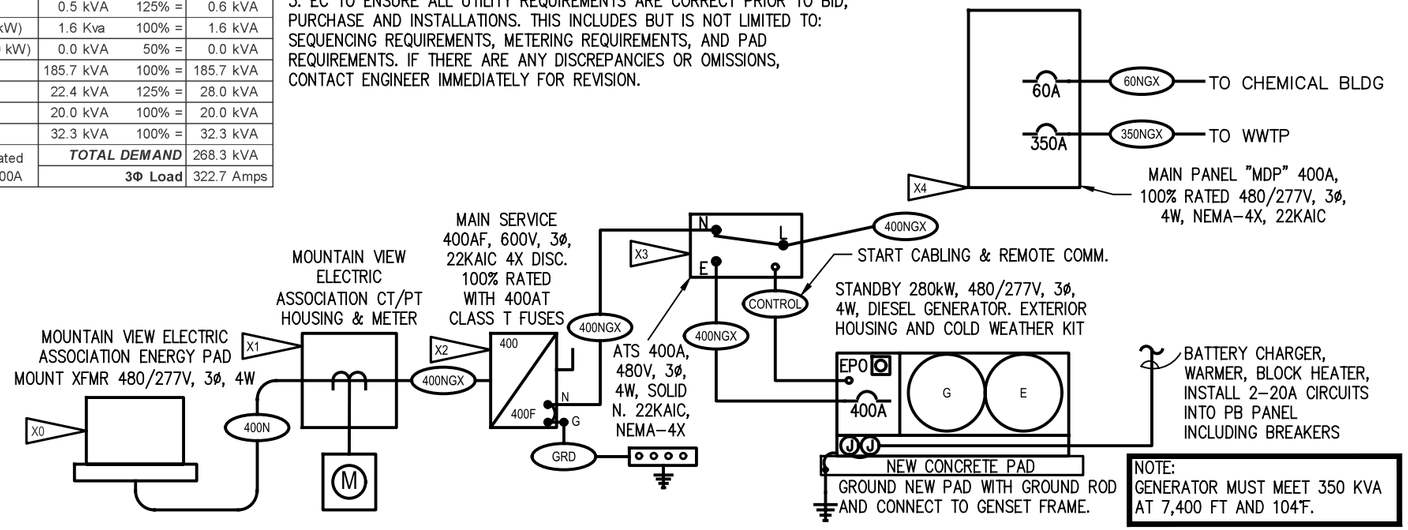
COLORADO LICENSED — MICHAEL BRUNGARD — 62944 — 01/30/26 — PROFESSIONAL ENGINEER

CONTRACTOR NOTE – UTILITY XFMR:

1. EC TO COORDINATE WITH MOUNTAIN VIEW ELECTRIC ASSOCIATION TO VERIFY SIZE AND AVAILABLE FAULT CURRENT FOR THE UTILITY TRANSFORMER. IF ANY VALUES EXCEED THE ONES LISTED ON THE SHORT CIRCUIT TABLE, CONTACT ENGINEER IMMEDIATELY TO REVISE DESIGN AND CALCULATIONS.

2. FOR DESIGN PURPOSES 300KVA XFMR USED TO CALCULATE FAULT CURRENT, AT A STARTING AIC OF 22,500. EC TO COORDINATE AND CONFIRM. IF FAULT XFMR OR FAULT EXCEED VALUES LISTED, CONTACT ENGINEER IMMEDIATELY FOR REDESIGN.

3. EC TO ENSURE ALL UTILITY REQUIREMENTS ARE CORRECT PRIOR TO BID, PURCHASE AND INSTALLATIONS. THIS INCLUDES BUT IS NOT LIMITED TO: SEQUENCING REQUIREMENTS, METERING REQUIREMENTS, AND PAD REQUIREMENTS. IF THERE ARE ANY DISCREPANCIES OR OMISSIONS, CONTACT ENGINEER IMMEDIATELY FOR REVISION.



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AquaWorks DBO INC — DESIGN BUILD OPERATE

PROJECT: WALDEN CORPORATION WWTP
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE: ONE LINE & DETAILS

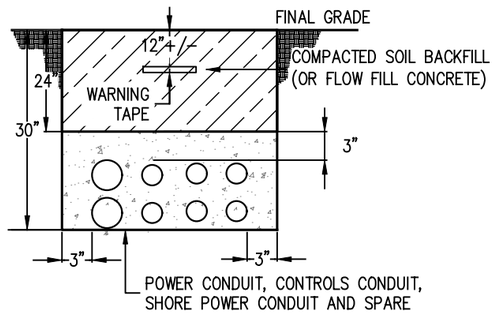
PROJECT NUMBER:	SCALE:	SHEET:
3774	NOT TO SCALE	E4

GENERATOR PAD:

1. SIZE PAD TO EXTEND A MINIMUM OF 18" PAST THE EDGE OF GENERATOR ENCLOSURE PROVIDED. COMPACT SOIL UNDER GENERATOR PADS TO 95% STANDARD PROCTOR. THE FINAL
2. STEEL REINFORCING BARS: ASTM A 615/A 615M, GRADE 6 BE UNIFORMLY TIED TO REINFORCING STEEL TO PREVENT DIS BOLSTERS, CHAIRS, OR SPACERS.
3. ALL CONCRETE SHALL BE AIR PROPORTION NORMAL-WEIGHT
   a. MINIMUM COMPRESSIVE STRENGTH: 4000 PSI AT 28
   b. MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO: 0.45.
   c. SLUMP LIMIT: 5 INCHES, PLUS OR MINUS 1 INCH.
   d. AIR CONTENT: 6 PERCENT, PLUS OR MINUS 1.5 PERCENT AT POINT OF DELIVERY FOR 3/4-INCH NOMINAL MAXIMUM AGGREGATE SIZE.
4. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. COMPLY WITH ACI 306.1 FOR COLD-WEATHER PROTECTION AND ACI 301 FOR HOT-WEATHER PROTECTION DURING CURING.

NOT NEEDED FOR GEC PLAN

Excluded this sheet and prepared the sheet set as per request on G2.



2 DUCT BANK DETAIL
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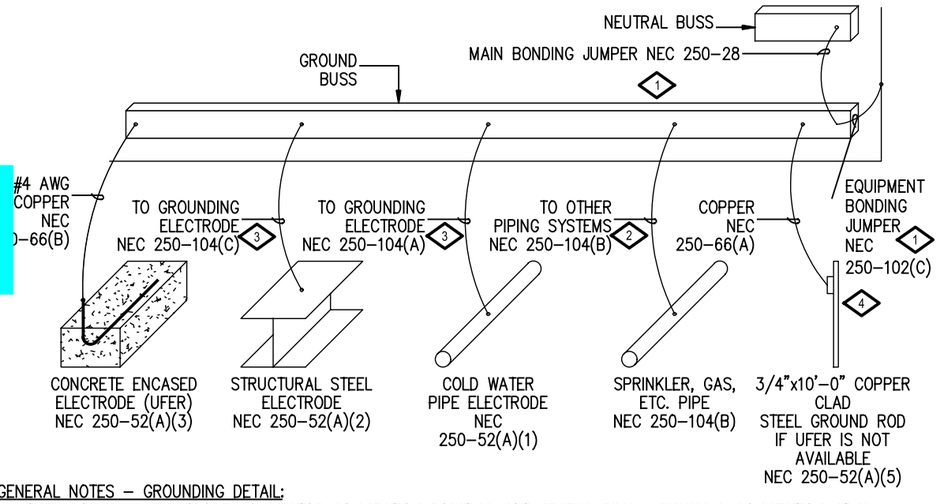

GENERAL NOTES – GROUNDING DETAIL:

1. THE GROUNDING ELECTRODE CONDUCTOR CONNECTION POINT IS NOT NECESSARILY A PHYSICAL CONNECTION. IT IS PROVIDED TO ILLUSTRATE THE INTERCONNECTION OF THE GROUNDING ELECTRODE SYSTEM. IT COULD, FOR EXAMPLE, BE THE WATER PIPE.
2. NEC REFERENCES ARE FROM 2020 NATIONAL ELECTRIC CODE.
3. BONDS SHALL BE MECHANICAL TYPE. INTERIOR BONDS MAY BE EXOTHERMIC.
4. BOND SIZE SHALL MATCH CONDUCTORS SHOWN ON FEEDER SCHEDULE.
5. GROUND CONDUCTORS SHALL BE STRANDED COPPER INSULATED CABLE, U.N.O.

DETAIL NOTES – GROUNDING DETAIL:

1. SIZE PER TABLE 250-66 UP TO 1100 KCMIL. SIZE TO 12.5% OF FEEDERS WHEN OVER 1100 KCMIL. MAIN BONDING JUMPER FOR SERVICES GREATER THAN 1000A, PROVIDED WITH SERVICE ENTRANCE SWITCHGEAR ARE ACCEPTABLE.
2. SIZE PER TABLE 250-122. ASSUMES MAIN DEVICE RATING IS EQUAL TO FEEDER SIZE.
3. SIZE PER TABLE 250-66.
4. SIZE PER TABLE 250-66.

BONDING CONDUTOR SIZE				
SES SIZE	MBJ/EBJ ◇1	PIPING ◇2	GE ◇3	GR ◇4
100A	6	8	6	4
200A	4	6	4	4
400A	1/0	3	1/0	6
600A	2/0	1	2/0	6
800A	2/0	1/0	2/0	6

3 GROUNDING DETAIL
SCALE: NOT TO SCALE

COLORADO LICENSED
MICHAEL BRUNGARD
62944
01/30/26
PROFESSIONAL ENGINEER

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AquaWorks DBO INC
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PROJECT: WALDEN CORPORATION WWTP
3155 WALKER ROAD COLORADO SPRINGS
EL PASO COUNTY, COLORADO

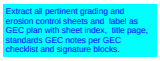
ENGINEER: AQUAWORKS DBO, INC.
3252 WILLIAMS STREET
DENVER, COLORADO 80205
(303) 477-5915

SHEET TITLE:
ELECTRICAL DETAILS

PROJECT NUMBER:	SCALE:	SHEET:
3774	NOT TO SCALE	E5

V3_ GEC Response.pdf Markup Summary

eschoenheit (83)



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Extract all pertinent grading and erosion control sheets and label as GEC plan with sheet index, title page, standards GEC notes per GEC checklist and signature blocks.

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Grading and Erosion Control Plans (standalone)

Design Engineer's Statement:

This grading and erosion control plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said plan has been prepared according to the criteria established by the County for grading and erosion control plans. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparing this plan.

_____
_____
[Name, P.E. #_____]Date

Owner/Developer's Statement:

I, the owner/developer have read and will comply with the requirements of the grading and erosion control plan.

_____
_____
[Name, Title]Date
[Business Name]
[Address]

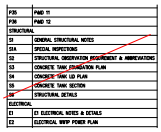
El Paso County:

County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/ or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/ or accuracy of this document.

Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual, Volumes 1 and 2, and Engineering Criteria Manual as amended.

In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Directors discretion.

_____
_ _____
County Engineer / ECM AdministratorDate



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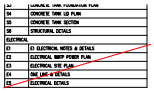

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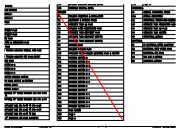

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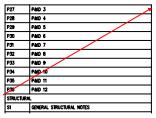

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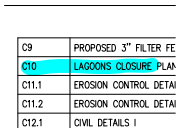

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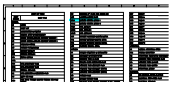

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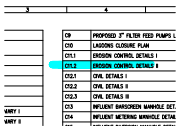

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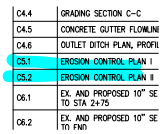

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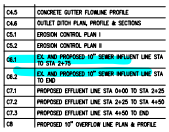

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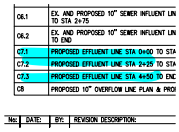

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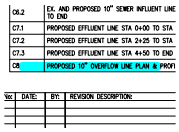

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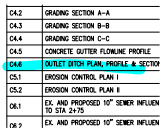

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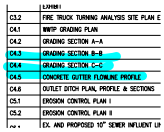

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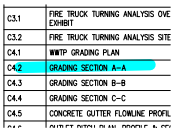

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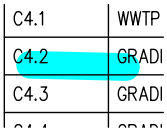

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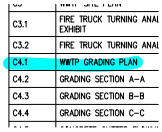

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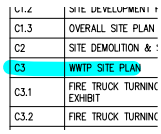

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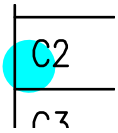

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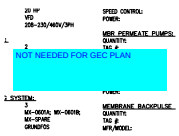

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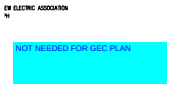

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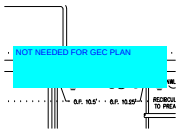

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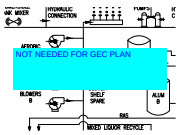

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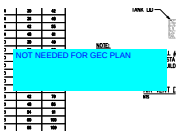
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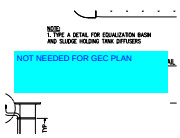

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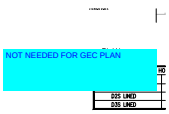

Subject: Text Box
Page Label: [11] G11 METALS DETAILS
Author: eschoenheit
Date: 3/9/2026 2:04:17 PM
Status:
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Layer:
Space:

NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [5] C3 WWTP SITE PLAN
Author: eschoenheit
Date: 3/9/2026 2:04:35 PM
Status:
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Layer:
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NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [6] C3.1 FIRE TRUCK TURNING ANALYSIS OVERALL SITE PLAN EXHIBIT
Author: eschoenheit
Date: 3/9/2026 2:04:40 PM
Status:
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NOT NEEDED FOR GEC PLAN

Subject: Cloud+
Page Label: [23] C10 LAGOONS CLOSURE PLAN
Author: eschoenheit
Date: 3/9/2026 2:34:01 PM
Status:
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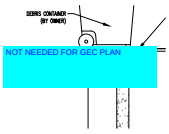
Providing grading plan for this area



Subject: Text Box
Page Label: [29] C13 INFLUENT BARSCREEN MANHOLE DETAIL
Author: eschoenheit
Date: 3/9/2026 2:31:31 PM
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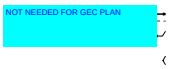
NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [30] C14 INFLUENT METERING MANHOLE DETAIL
Author: eschoenheit
Date: 3/9/2026 2:05:44 PM
Status:
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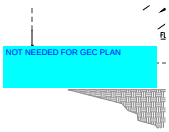
NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [31] C15 INFLUENT DIVERSION MANHOLE DETAIL
Author: eschoenheit
Date: 3/9/2026 2:06:06 PM
Status:
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Layer:
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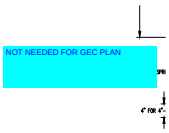
NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [32] C16 FLOWABLE BACKFILL DETAIL
Author: eschoenheit
Date: 3/9/2026 2:06:12 PM
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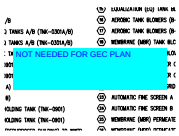

Subject: Text Box
Page Label: [2] P2 EQUIPMENT & PROCESS NOTES
Author: eschoenheit
Date: 3/9/2026 2:06:25 PM
Status:
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NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [3] P3 CONCRETE TANK LID PLAN
Author: eschoenheit
Date: 3/9/2026 2:06:31 PM
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Layer:
Space:

NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [1] P4 BUILDING FLOOR PENETRATION PLAN
Author: eschoenheit
Date: 3/9/2026 2:06:38 PM
Status:
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Layer:
Space:

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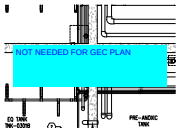

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Page Label: [2] P5 CONCRETE TANK EQUIPMENT PLAN
Author: eschoenheit
Date: 3/9/2026 2:06:42 PM
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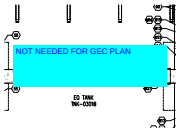

Subject: Text Box
Page Label: [3] P6 CONCRETE TANK EQUIPMENT (SOUTH)
Author: eschoenheit
Date: 3/9/2026 2:06:49 PM
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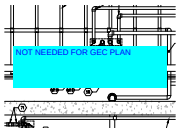

Subject: Text Box
Page Label: [4] P7 CONCRETE TANK EQUIPMENT (NORTH)
Author: eschoenheit
Date: 3/9/2026 2:06:52 PM
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NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [5] P8 PROCESS PLAN
Author: eschoenheit
Date: 3/9/2026 2:06:56 PM
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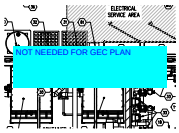
NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [6] P9 BUILDING PROCESS PLAN
Author: eschoenheit
Date: 3/9/2026 2:06:59 PM
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NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [10] P10 POLISHING FILTER BUILDING (EXISTING) PLAN & SECTION
Author: eschoenheit
Date: 3/9/2026 2:32:47 PM
Status:
Color:
Layer:
Space:

NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [11] P11 PROCESS SECTION A
Author: eschoenheit
Date: 3/9/2026 2:32:43 PM
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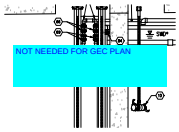
NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [12] P12 PROCESS SECTION B-1
Author: eschoenheit
Date: 3/9/2026 2:07:08 PM
Status:
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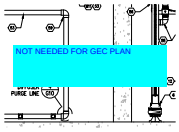

Subject: Text Box
Page Label: [13] P13 PROCESS SECTION B-2
Author: eschoenheit
Date: 3/9/2026 2:07:13 PM
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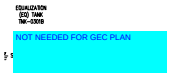
Space:

NOT NEEDED FOR GEC PLAN



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Page Label: [14] P14 PROCESS SECTION C-1
Author: eschoenheit
Date: 3/9/2026 2:07:17 PM
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Space:

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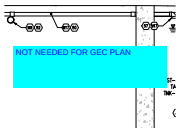

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Page Label: [15] P15 PROCESS SECTION C-2
Author: eschoenheit
Date: 3/9/2026 2:07:21 PM
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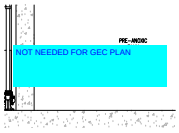

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Page Label: [16] P16 PROCESS SECTION D-1
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Date: 3/9/2026 2:07:26 PM
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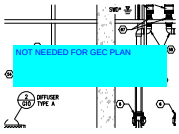

Subject: Text Box
Page Label: [17] P17 PROCESS SECTION D-2
Author: eschoenheit
Date: 3/9/2026 2:07:30 PM
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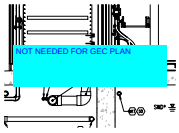

Subject: Text Box
Page Label: [18] P18 PROCESS SECTION E
Author: eschoenheit
Date: 3/9/2026 2:11:04 PM
Status:
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NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [19] P19 PROCESS SECTION F
Author: eschoenheit
Date: 3/9/2026 2:11:11 PM
Status:
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Layer:
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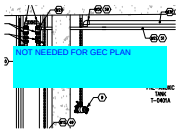
NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [20] P20 PROCESS SECTION G-1
Author: eschoenheit
Date: 3/9/2026 2:07:35 PM
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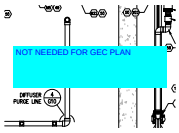
NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [21] P21 PROCESS SECTION G-2
Author: eschoenheit
Date: 3/9/2026 2:07:38 PM
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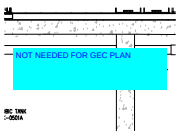
NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [22] P22 PROCESS SECTION H-1
Author: eschoenheit
Date: 3/9/2026 2:07:45 PM
Status:
Color:
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NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [23] P23 PROCESS SECTION H-2
Author: eschoenheit
Date: 3/9/2026 2:07:50 PM
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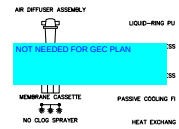

Subject: Text Box
Page Label: [24] P24 P&ID LEGEND
Author: eschoenheit
Date: 3/9/2026 2:07:55 PM
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Subject: Text Box
Page Label: [25] P25 P&ID 1
Author: eschoenheit
Date: 3/9/2026 2:07:58 PM
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NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [26] P26 P&ID 2
Author: eschoenheit
Date: 3/9/2026 2:08:02 PM
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NOT NEEDED FOR GEC PLAN

Subject:
Page Label: [27] P27 P&ID 3
Author: eschoenheit
Date: 3/9/2026 2:08:08 PM
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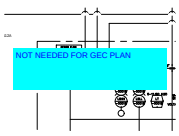
(LOOSE)



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Author: eschoenheit
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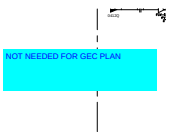

Subject: Text Box
Page Label: [28] P28 P&ID 4
Author: eschoenheit
Date: 3/9/2026 2:08:20 PM
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NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [29] P29 P&ID 5
Author: eschoenheit
Date: 3/9/2026 2:08:23 PM
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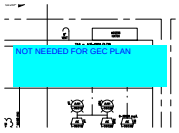

Subject: Text Box
Page Label: [30] P30 P&ID 6
Author: eschoenheit
Date: 3/9/2026 2:08:27 PM
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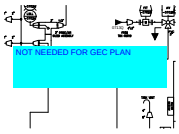

Subject: Text Box
Page Label: [31] P31 P&ID 7
Author: eschoenheit
Date: 3/9/2026 2:08:30 PM
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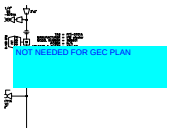

Subject: Text Box
Page Label: [32] P32 P&ID 8
Author: eschoenheit
Date: 3/9/2026 2:10:05 PM
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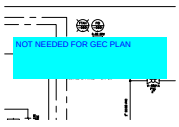

Subject: Text Box
Page Label: [33] P33 P&ID 9
Author: eschoenheit
Date: 3/9/2026 2:10:09 PM
Status:
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NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [34] P34 P&ID 10
Author: eschoenheit
Date: 3/9/2026 2:10:14 PM
Status:
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Layer:
Space:

NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [35] P35 P&ID 11
Author: eschoenheit
Date: 3/9/2026 2:10:18 PM
Status:
Color:
Layer:
Space:

NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [36] P36 P&ID 12
Author: eschoenheit
Date: 3/9/2026 2:10:22 PM
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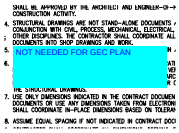
Layer:
Space:

NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [1] GN from Revit 1
Author: eschoenheit
Date: 3/9/2026 2:10:26 PM
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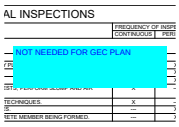
Layer:
Space:

NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [1] S1_S1A_S2 GENERAL NOTES-GN from Revit 1A
Author: eschoenheit
Date: 3/9/2026 2:10:32 PM
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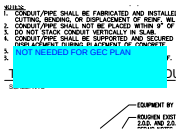
NOT NEEDED FOR GEC PLAN



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Page Label: [1] S1_S1A_S2 GENERAL NOTES-GN from Revit 2)
Author: eschoenheit
Date: 3/9/2026 2:10:38 PM
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Color:
Layer:
Space:

NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [1] CONCRETE FOUNDATION
Author: eschoenheit
Date: 3/9/2026 2:10:45 PM
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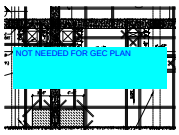
NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [1] ANAEROBIC TANKS STRUCTURAL DESIGN
Author: eschoenheit
Date: 3/9/2026 2:10:48 PM
Status:
Color:
Layer:
Space:

NOT NEEDED FOR GEC PLAN

Subject: Text Box
Page Label: [1] ANAEROBIC TANKS STRUCTURAL DESIGN
Author: eschoenheit
Date: 3/9/2026 2:28:43 PM
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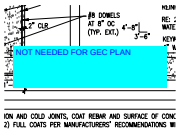
NOT NEEDED FOR GEC PLAN



Subject: Text Box
Page Label: [1] STRUCTURAL DETAILS
Author: eschoenheit
Date: 3/9/2026 2:28:47 PM
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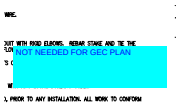

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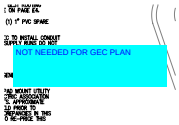

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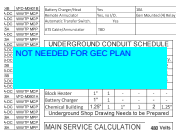

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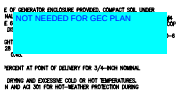

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