



SYRACUSE DIVISION

PLANS FOR

REHABILITATION / REPLACEMENT OF THE WASTEWATER TREATMENT PLANT

AT CLIFTON SPRINGS SERVICE AREA AT MILEPOST 337.10± IN ONTARIO COUNTY

UDIG NEW YORK UNDERGROUND FACILITIES PROTECTION ORGANIZATION CALL 811

TYPE OF CONSTRUCTION:

INSTALLATION AND REHABILITATION OF SANITARY FACILITIES FOR THE IMPROVEMENTS TO THE WASTEWATER TREATMENT PLANT AT THE CLIFTON SPRINGS SERVICE AREA

CODE COMPLIANCE:

ALL WORK DESCRIBED AND TO BE PERFORMED UNDER THIS CONTRACT, SHALL CONFORM TO THE PROVISIONS OUTLINED BY 19 NYCRR, THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE(S) AND ITS REFERENCE STANDARDS.

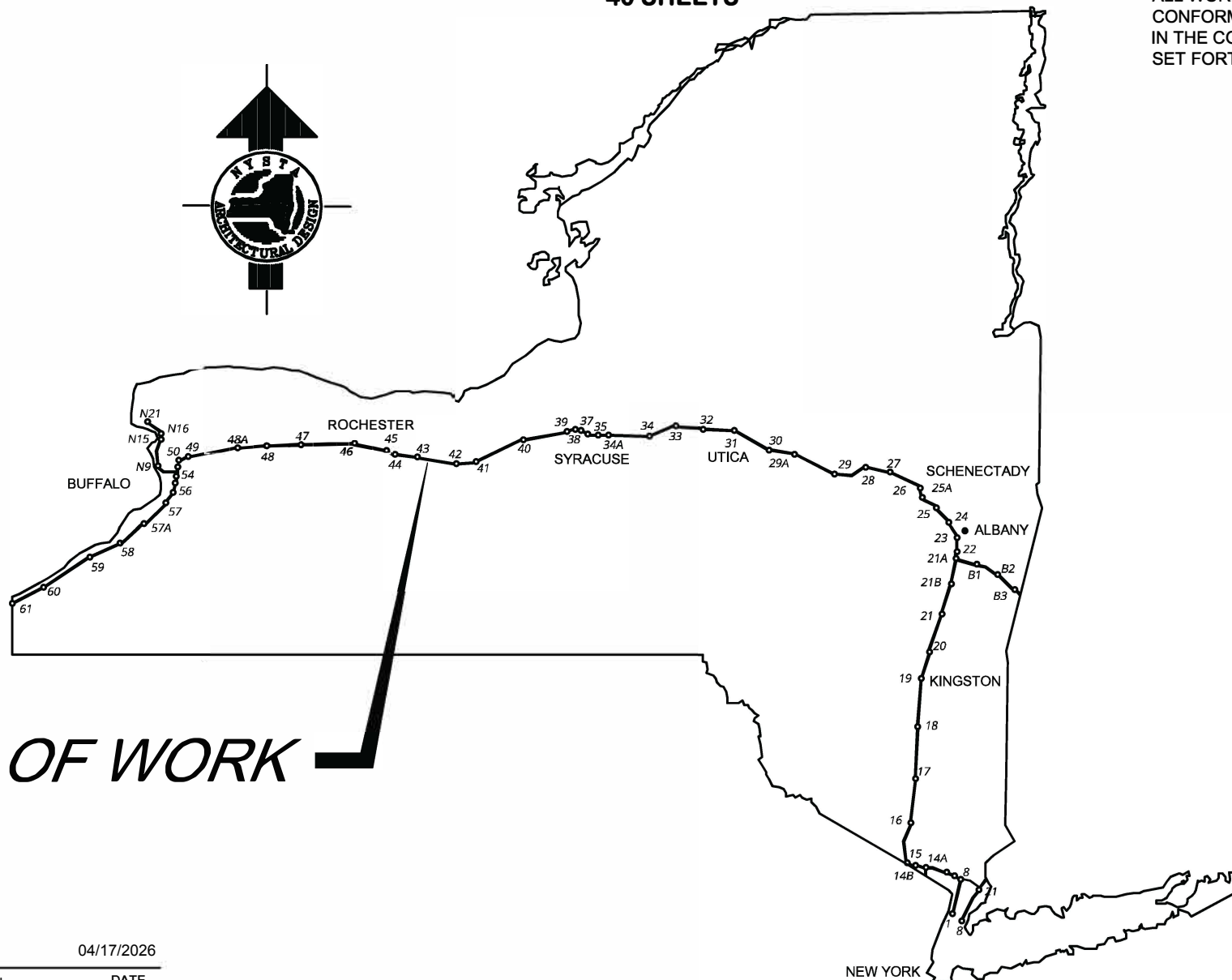
BUILDING CLASSIFICATIONS:

OCCUPANCY CLASSIFICATION: N/A CONSTRUCTION CLASSIFICATION: N/A

NOTES:

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR CHANGES SET FORTH IN THE CONTRACT "PROPOSAL".

TAS 26-20A D215099 40 SHEETS



SITE OF WORK

CONTRACTOR'S NAME:
AWARD DATE:
COMPLETION DATE:
FINAL ACCEPTANCE DATE:
INSPECTION FIRM'S NAME:
RESIDENT ENG./EIC:
FINAL COST TOTAL:

FISCAL SHARE	COST(S)

INSPECTION FIRM:
CONSULTANT STAMP:

RECOMMENDED BY: [Signature] 04/17/2026
DIRECTOR, OFFICE OF DESIGN

RECOMMENDED BY: [Signature] 04/20/2026
DIVISION DIRECTOR

RECOMMENDED BY: [Signature] 04/17/2026
TRAFFIC ENGINEER

RECOMMENDED BY: [Signature] 04/17/2026
DIRECTOR, OFFICE OF CONSTRUCTION MANAGEMENT

RECOMMENDED BY: [Signature] 04/20/2026
CHIEF MAINTENANCE AND OPERATIONS OFFICER

APPROVED BY: [Signature] 04/20/2026
CHIEF ENGINEER

PREPARED AND RECOMMENDED BY: [Signature] DATE 4/10/2026
COLLIERS ENGINEERING & DESIGN
JOSEPH B. AWALD, P.E.
LICENSE NUMBER: 089707

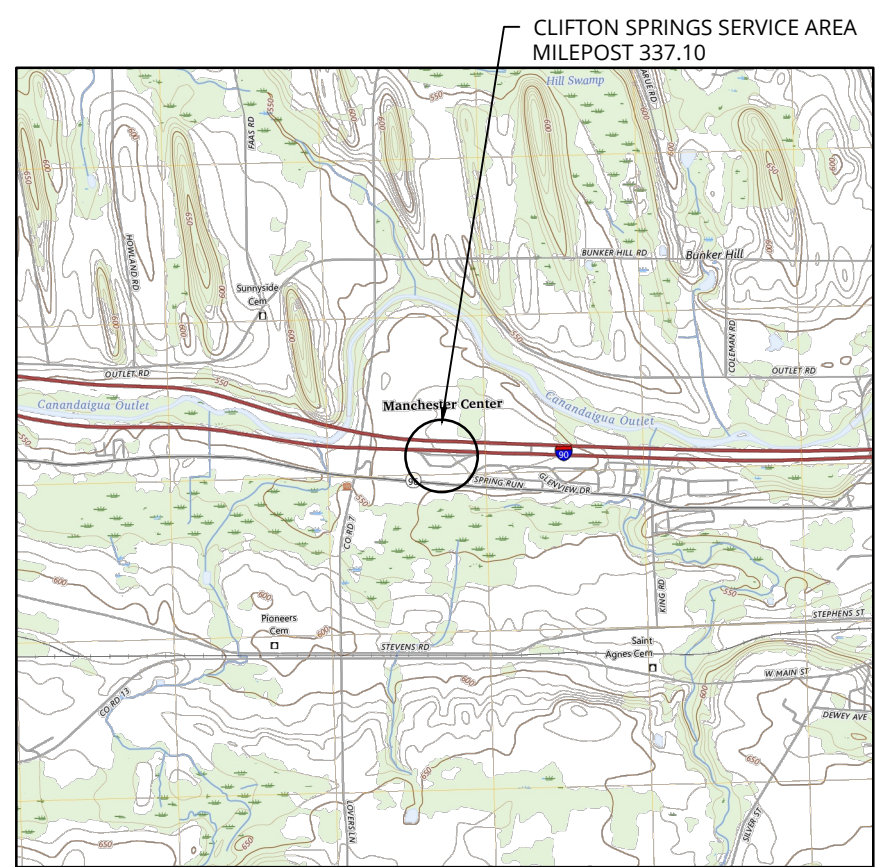
REVIEWED BY [Signature]

PROJECT MANAGER [Signature]

BUREAU DIRECTOR [Signature]

PW: /
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SMB
 DESIGN SUPERVISOR: JBA

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LOCATION MAP
SCALE 1"=4,000'

CLIFTON SPRINGS WWTP SPDES EFFLUENT LIMITATIONS			
EFFLUENT PARAMETER	30 DAY ARITHMETIC MEAN	7 DAY ARITHMETIC MEAN	DAILY MAXIMUM VALUE
FLOW (GPD)	54,000	-	-
BIOCHEMICAL OXYGEN DEMAND, 5 DAY (BOD ₅) (mg/L)	30	45	-
BIOCHEMICAL OXYGEN DEMAND, 5 DAY (BOD ₅) (LBS/DAY)	13.50	20.30	-
TOTAL SUSPENDED SOLIDS (TSS) (mg/L)	30	45	-
TOTAL SUSPENDED SOLIDS (TSS) (LBS/DAY)	13.50	20.30	-
SETTLABLE SOLIDS (ML/L)	-	-	0.30
pH (DAILY MAX - DAILY MIN)	6.0 - 9.0		

EXISTING	LEGEND	PROPOSED
	TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EDGE OF PAVEMENT	
	CURB	
	DEPRESSED CURB	
	SIDEWALK	
	FENCES	
	TREELINE	
	ROADWAY SIGNS	
	WETLAND LINE	
	STORM INLET	
	STORM MANHOLE	
	SANITARY MANHOLE	
	FLARED END SECTION	
	HEADWALL	
	HYDRANT	
	POLE MOUNTED LIGHT	
	OVER HEAD WIRE	
	WATER MAIN	
	GAS MAIN	
	TELEPHONE CONDUIT	
	ELECTRIC CONDUIT	
	SANITARY PIPE	
	STORM PIPE	
	SANITARY FORCE MAIN	
	CHECK VALVE	
	GATE VALVE	
	PLUG VALVE	
	BUTTERFLY VALVE	

ALTERED ON: _____ AFFIXED ON: 4/10/2026

SIGNATURE: _____ SIGNATURE: _____
 STAMP: _____ STAMP: _____

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING INDEX OF SHEETS, LOCATION MAP, SPDES PARAMETERS AND LEGEND	DRAWING NUMBER: GN-1

GENERAL NOTES

REFERENCE NOTES

- CONSTRUCTION DRAWINGS ARE BASED ON TOPOGRAPHIC, PROPERTY AND UTILITY SURVEY PREPARED BY COLLIERS ENGINEERING & DESIGN AND BY HISTORICAL AND RECORD DRAWINGS PROVIDED BY THRUWAY AUTHORITY.
- THE LOCATION, NATURE AND ALIGNMENT OF UNDERGROUND UTILITIES ARE BASED ON HISTORIC AND RECORD DRAWINGS, AND UTILITY EVIDENCE VISIBLE AT THE GROUND SURFACE AND ARE CONSIDERED TO BE SCHEMATIC ONLY.
- THE SURVEY INFORMATION DOES NOT CLAIM TO SHOW ALL UNDERGROUND UTILITIES. OTHERS MAY EXIST IN THE WORK AREA. IDENTIFICATION OF ALL UTILITIES IN THE WORK AREA SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

WASTEWATER DISPOSAL

- INFLUENT WASTEWATER SHALL BE TEMPORARILY STORED WITHIN THE EXISTING SLUDGE HOLDING TANK WHILE THE WASTEWATER TREATMENT PLANT PROCESSES ARE UNDER CONSTRUCTION AND / OR OFFLINE. SEE PROJECT DESCRIPTION ON FOLLOWING SHEET FOR DETAILS ON TEMPORARY WASTEWATER STORAGE.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT INFLUENT WASTEWATER SHALL BE HAULED OFF BY A LICENSED HAULER TO ANOTHER REGULATED WASTEWATER TREATMENT PLANT WHILE THE WASTEWATER TREATMENT PLANT PROCESSES ARE UNDER CONSTRUCTION AND / OR ARE OFFLINE. RESPONSIBILITY, INCLUDING BUT NOT LIMITED TO, ALL COST INCURRED FOR STORAGE, TRANSFER, HAULING AND DISPOSAL OF THE WASTEWATER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- COORDINATE CONSTRUCTION OPERATIONS WITH WASTEWATER HAULING TO ENSURE SUFFICIENT STORAGE CAPACITY IS MAINTAINED WITHIN THE EXISTING SLUDGE HOLDING TANK.
- CONSTRUCTION/HAULING SHALL BE LIMITED TO THE WINTER MONTHS OF DECEMBER-MARCH DURING WHICH INFLUENT FLOWS TO THE WWTP WILL BE LOWER. SEE NEXT SHEET FOR MONTHLY FLOW DATA.

COORDINATION

- DURING THE CONSTRUCTION PERIOD COORDINATE ACTIVITIES, INCLUDING USE OF THE SITE, TO MINIMIZE INTERFERENCE WITH THE ONGOING THRUWAY AND TRAVEL PLAZA OPERATIONS. CONTRACTOR'S ACTIVITIES ARE SUBJECT TO PRIOR APPROVAL OF THE THRUWAY AUTHORITY.

LAYOUT

- THE THRUWAY AUTHORITY WILL DETERMINE LOCATIONS OF CONTRACTOR STAGING AND LAYDOWN AREAS, THE SITE HAS LIMITED SPACE FOR PARKING, MATERIAL AND EQUIPMENT. AT PROJECT COMPLETION, RESTORE ANY AREAS DISTURBED BY STAGING, PARKING, OR OTHER CONSTRUCTION ACTIVITIES TO THEIR ORIGINAL CONDITION.
- ESTABLISH BENCHMARKS FOR SURVEY CONTROL AND MAINTAIN FOR THE DURATION OF CONSTRUCTION ACTIVITIES. PROTECT AND MAINTAIN BENCHMARKS DURING CONSTRUCTION.

CONFINED ENTRY NOTE:

- CONTRACTOR IS REQUIRED TO SUBMIT A LIST OF VESSELS REQUIRING CONFINED ENTRY DURING CONSTRUCTION TO THE THRUWAY AUTHORITY'S CODES COMPLIANCE OFFICER.

- CONTRACTOR SHALL FOLLOW ALL PROPER OSHA REGULATIONS FOR ENTRANCE INTO CONFINED SPACES.

EXISTING CONDITIONS

- VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCING WORK. IMMEDIATELY NOTIFY THE THRUWAY AUTHORITY OF ANY DISCREPANCIES.
- CONTRACTOR IS ADVISED OF THE PRESENCE OF METHANE, PROPANE, AND OTHER POTENTIALLY FLAMMABLE GASES AT THE SITE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO CHECK FOR CONCENTRATIONS OF FLAMMABLE VAPORS / GASES BEFORE CONDUCTING ANY ACTIVITY (WELDING, CUTTING, TORCHING, ETC.) THAT COULD CAUSE IGNITION OF THOSE GASES.
- PROTECT FROM DAMAGE ALL EXISTING FEATURES NOT INDICATED OR REQUIRED TO BE REMOVED FOR THE WORK.
- REPAIR ITEMS THAT ARE TO REMAIN IF DAMAGED DURING THE PERFORMANCE OF THE WORK. REPAIR OR REPLACE TO THEIR ORIGINAL CONDITION AS DETERMINED BY THE THRUWAY AUTHORITY, OR REPLACE WITH NEW IN-KIND.

EXISTING UTILITIES

- THE LOCATION OF UTILITIES INDICATED ON THE SITE SURVEY AND DRAWINGS ARE APPROXIMATE ONLY. ACCURATELY LOCATE SUBSURFACE UTILITIES BEFORE EXCAVATING.
- PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES, CONTACT UDIG-NY AT 1-800-962-7962 OR 811 FOR INFORMATION ON EXISTING UNDERGROUND UTILITIES.
- PERFORM EXCAVATION IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
- SLOPE OR SUPPORT THE SIDES OF ALL EXCAVATIONS AS REQUIRED BY LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
- EXISTING WATER SUPPLY PIPING AND APPURTENANCES WHICH ARE CUT, TAPPED, OR OTHERWISE DISTURBED DURING CONSTRUCTION SHALL BE PROTECTED FROM CONTAMINATION AND DISINFECTED AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

SPOILS

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT NO SPOIL AREA IS AVAILABLE FOR THIS CONTRACT WITHIN THE THRUWAY'S RIGHT-OF-WAY. THEREFORE, ALL SPOIL MATERIAL (INCLUDING WASTEWATER, WASH WATERS, CONCRETE, METAL, SOIL, AND SLUDGE) REMOVED FROM THE JOB SITE SHALL BE DISPOSED OF, BY THE CONTRACTOR, OFF OF THE THRUWAY'S PROPERTY. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS THAT APPLY TO THE OFF-SITE AREA CHOSEN FOR THIS SPOIL MATERIAL. ALL COST ASSOCIATED WITH THE REMOVAL AND LAWFUL DISPOSAL OF ALL SPOIL MATERIAL OFF THRUWAY PROPERTY SHALL BE INCLUDED IN THE BID.

DEMOLITION

- CONDUCT REMOVAL OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT EXISTING FEATURES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AND AUTHORIZED VEHICLES AROUND THE WORK AREA.
- PROVIDE CONSTRUCTION FENCES, BARRICADES OR OTHER SUITABLE DEVICES AS DIRECTED BY THE THRUWAY AUTHORITY TO PREVENT DAMAGE BY VEHICLES AND UNAUTHORIZED ENTRY INTO WORK, CONSTRUCTION STAGING AND EQUIPMENT STORAGE AREAS.
- PROVIDE ALL REMOVALS INCIDENTAL TO AND NECESSARY TO PROVIDE THE WORK OF THIS CONTRACT AND LEGALLY DISPOSE OF OFF-SITE. REMOVE EXISTING FEATURES AND UNUSED EARTH MATERIALS INCLUDING EXCESS TOPSOIL IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED BY THE THRUWAY AUTHORITY.

- PROMPTLY DISPOSE OF DEMOLISHED MATERIALS AND TRASH OFF-SITE. DO NOT ALLOW DEBRIS TO ACCUMULATE ON-SITE. THERE SHALL BE NO BURIAL OF RUBBLE OR REUSE AS BACKFILL.
- UTILIZE SAW-CUTS IN AREAS WHERE PAVEMENT IS TO BE REMOVED FOR INSTALLATION OF IMPROVEMENTS AND WHERE NEW PAVEMENT IS JOINED WITH EXISTING. TREAT ALL JOINTS BETWEEN NEW AND EXISTING ASPHALT PAVEMENT WITH AN ASPHALT EMULSION.
- REMOVE EXISTING TREES AND VEGETATION AS REQUIRED TO INSTALL IMPROVEMENTS. NOT ALL TREE REMOVALS ARE EXPLICITLY IDENTIFIED IN WOODED AREAS. PRIOR TO CONSTRUCTION, STAKE OUT PROPOSED PIPE ROUTING AND STRUCTURE LOCATIONS FOR REVIEW AND APPROVAL BY THE THRUWAY AUTHORITY.
- UNLESS OTHERWISE NOTED, ALL PIPES TO BE ABANDONED SHALL BE ABANDONED IN PLACE BY PLUGGING ENDS WITH CONCRETE. (SEE CONCRETE PLUG DETAIL ON SHEET SD-2)
- ENDS OF PIPES ENTERING MANHOLES / STRUCTURES TO BE ABANDONED SHALL BE PLUGGED WITH 2 FT. OF CONCRETE. AFTER REMOVAL OF EQUIPMENT, ALL STRUCTURES TO BE ABANDONED SHALL BE CUT AND REMOVED A MINIMUM OF 3' BELOW GRADE AND REMAINING STRUCTURE SHALL HAVE HOLES CORED THE BOTTOM SLAB AND FILLED WITH CLEAN STONE. (SEE TYPICAL STRUCTURE ABANDONMENT DETAIL ON SHEET SD-2)

PIPING


- MINIMUM COVER ON SANITARY SEWER PIPES SHALL BE 4'-0", UNLESS NOTED OTHERWISE.
- ALL PIPE TO BE INSTALLED WITH LESS THAN 5- FEET OF COVER TO BE HEAT TRACED AND INSULATED. SEE SHEET SD-4 FOR DETAILS. THE USE OF INSULATION IS SUBJECT TO PRIOR APPROVAL BY THRUWAY AUTHORITY.
- ALL WATER AND SEWER LINES TO BE INSTALLED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE WATER MAIN/SEWER CROSSING DETAIL PROVIDED IN THE CONTRACT DOCUMENTS.
- ALL VERTICAL AND HORIZONTAL BENDS MAY NOT BE DEPICTED ON THE DRAWINGS.
- PROVIDE ALL NECESSARY FITTINGS AND ADAPTERS THAT ARE REQUIRED TO CONNECT DIFFERENT TYPES OF PIPING MATERIAL.

SITE WORK

- PROVIDE A MINIMUM OF 4 INCHES OF NEW TOPSOIL AND SEEDING, AND MAINTAIN LAWN GROUND COVER UNTIL CONCLUSION OF THE PROJECT.
- AT PROJECT COMPLETION, RESTORE ANY SITE AREA OR FEATURE DISTURBED DURING CONSTRUCTION TO ORIGINAL CONDITION AS DETERMINED BY THRUWAY AUTHORITY.
- PROVIDE AND MAINTAIN EROSION CONTROL MEASURES AS INDICATED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS FOR THE DURATION OF THE PROJECT.
- PROVIDE AND MAINTAIN TEMPORARY FENCING AS INDICATED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS FOR THE DURATION OF THE PROJECT.
- PROVIDE AND MAINTAIN ACCESS TO THE SLUDGE HOLDING TANK FOR THE LICENSED HAULER TO PUMP EFFLUENT FROM SLUDGE HOLDING TANKS.

LEAD HANDLING NOTES:

- PERFORM HANDLING AND DISPOSAL OF ALL LEAD-CONTAINING MATERIALS/PAINTS AND MATERIALS COATED WITH LEAD-CONTAINING PAINT IN ACCORDANCE WITH OSHA WORKER PROTECTION STANDARDS (29 CFR PART 1926.62) AND OTHER APPLICABLE REGULATIONS. REFER TO THE LIMITED HAZARDOUS MATERIAL SURVEY REPORT PROVIDED IN THE CONTRACT DOCUMENTS.
- PROVIDE ALL NECESSARY DROP CLOTHS, DUST BARRIERS, AND CONTAINMENT STRUCTURES TO PREVENT THE SPREAD OF DUST FROM WORK AREA AND PREVENT LEAD EXPOSURE TO THE PUBLIC AND ENVIRONMENT.

ALTERED ON:	AFFIXED ON: 4/10/2026
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.




TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING GENERAL NOTES	DRAWING NUMBER: GN-2

PW: /
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SMB
 DESIGN SUPERVISOR: JBA

CLIFTON SPRINGS PROJECT DESCRIPTION

THE FOLLOWING IS A GENERALIZED OUTLINE OF THE SCOPE OF WORK, MORE COMPLETELY DESCRIBED ON THE DRAWINGS AND IN THE PROJECT REPORT:

CLIFTON SPRINGS WASTEWATER TREATMENT PLANT OPERATION

- COORDINATE ALL WORK WITH THE THRUWAY AUTHORITY.
- CONSTRUCTION ACTIVITIES, TEMPORARY BYPASS MEASURES, AND OPERATIONAL ADJUSTMENTS SHALL BE COORDINATED WITH THE THRUWAY AUTHORITY FOR THE DURATION OF THE CONTRACT TO MAINTAIN THE OPERATION OF THE WASTEWATER TREATMENT PLANT IN CONFORMANCE WITH THE CONDITIONS OF THE EXISTING NEW YORK "STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) PERMIT."
- WORK CLOSELY WITH THRUWAY AUTHORITY PERSONNEL RESPONSIBLE FOR THE OPERATION OF THE WASTEWATER TREATMENT PLANT TO ENSURE THAT THE NYSDEC SPDES PERMIT CONDITIONS, INCLUDING, BUT NOT LIMITED TO, EFFLUENT LIMITS ARE COMPLIED WITH FOR THE DURATION OF THE CONTRACT.
- ALL COSTS INCURRED BY THE THRUWAY AUTHORITY FOR ANY VIOLATION OF THE SPDES PERMIT CAUSED BY THE ACTIONS OF THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. A COPY OF THE SPDES PERMIT IS PROVIDED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL HAUL OFF FOR DISPOSAL INFLUENT WASTEWATER TO ANOTHER REGULATED WASTEWATER TREATMENT PLANT WHILE THE WASTEWATER TREATMENT PLANT PROCESSES ARE UNDER CONSTRUCTION AND/OR ARE OFFLINE. ALL COST INCURRED FOR STORAGE, TRANSFER, HAULING AND DISPOSAL OF THE WASTEWATER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL SITE

- REPLACE ALL EXISTING YARD VALVES. ALL YARD VALVES ARE 6" GATE VALVES. REFER TO MECHANICAL SHEETS FOR IN-STRUCTURE VALVE TYPES AND SIZES.
- SITE WORK INCLUDING CUT AND FILL, GRADING, TOPSOIL AND SEEDING AS NEEDED.
- REMOVE OLD AND INSTALL NEW PIPING BY CUT AND COVER AS DETAILED ON THE DRAWINGS AND IN THE PROJECT REPORT.
- ALL PIPE TO BE INSTALLED WITH LESS THAN 5-FEET OF COVER TO BE HEAT TRACED AND INSULATED. SEE SHEET SD-4 FOR DETAILS.

EXISTING SLUDGE HOLDING TANK

- PRIOR TO ANY WORK ON THE IMPROVEMENTS IN WHICH THE PROCESSES ARE TAKEN OFFLINE, THE EXISTING TANK SHALL BE DRAINED AND CLEANED.
- CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OFF-SITE ALL MATERIAL IN THE TANKS AND ANY WASH WATER UTILIZED.
- FOLLOWING CLEANING, THE FACILITY MAY BE USED AS A HOLDING TANK FOR THE PLANT INFLUENT.
- CONTRACTOR SHALL PROVIDE TEMPORARY GRAVITY PIPING FROM THE PLANT FLOW DIVERSION STRUCTURE TO THE TANK. SEE FLOW DIVERSION STRUCTURE FOR FURTHER DETAILS.

- CONTRACTOR SHALL REMOVE THE INFLUENT WASTEWATER OFF-SITE AS NOTED ABOVE ON A CONTINUING BASIS ALLOWING NO MORE THAN **10,000** GALLONS OF STORAGE AT ANY TIME. RECENT FLOW RECORDS INDICATE AN AVERAGE DAILY FLOW OF 8,100 GPD, AND A MAX DAILY FLOW OF 22,000 GPD.
- FOLLOWING COMMISSIONING OF THE NEW PLANT, CONTRACTOR SHALL CLEAN THE TANK AND REMOVE ALL SEWAGE FROM THE TANK FOR OFF-SITE DISPOSAL, CORE FOUR (4) 8-INCH DIAMETER HOLES FULL DEPTH IN THE TANK BOTTOM CONCRETE SLAB, DEMOLISH THE ROOF AND ALL TANK COMPONENTS TO 3-FEET BELOW FINISHED GRADE, AND FILL THE STRUCTURE WITH CLEAN STONE.
- STONE SHALL BE COVERED WITH A WOVEN FILTER FABRIC COVERED BY 1-FOOT OF COMMON FILL AND 4" TOPSOIL.

FLOW DIVERSION STRUCTURE

- TEMPORARILY PLUG THE TWO (2) EXISTING EFFLUENT PIPES AND CORE DRILL AND PROVIDE TEMPORARY GRAVITY PIPE TO CONNECT TO EXISTING SLUDGE HOLDING TANK.

HEADWORKS STRUCTURE

- REPLACE EXISTING COMMUNUTOR'S HYDRAULIC DRIVE WITH NEW ELECTRIC MOTOR.

EQUALIZATION TANK & SLUDGE HOLDING TANK

- EXISTING EQUALIZATION TANK CHAMBER NO. 1 TO REMAIN AS EQUALIZATION TANK. EXISTING CHAMBER NO. 2 SHALL BE CONVERTED TO PROPOSED SLUDGE HOLDING TANK.
- REMOVE 4" PVC AIR LINE TO CHAMBER NO. 1 AND REPLACE IN KIND.
- REMOVE ALL 4" PVC AIR LINES AND BUBBLER DIFFUSERS WITHIN CHAMBER NO. 2 AND SEAL AIR LINE PENETRATION. REMOVE 6" DIP INFLUENT FROM FLOW DIVERSION STRUCTURE AND CORE PENETRATION AS REQUIRED TO FACILITATE INSTALLATION OF PROPOSED 6" SLUDGE PIPING. PROVIDE NEW FRP COVER FOR PROPOSED SLUDGE HOLDING TANK.
- CORE TWO (2) 6" PENETRATIONS TO ALLOW DECANTING FROM PROPOSED SLUDGE HOLDING TANK (CHAMBER NO. 2) TO EQUALIZATION TANK (CHAMBER NO. 1).

PRIMARY AND SECONDARY CLARIFIER

- REMOVE EXISTING WEIR, SCUM BAFFLE, SCUM TROUGH / TRACK, AND SCUM LINE.
- REPLACE EXISTING WEIR WITH PROPOSED FIBERGLASS V-NOTCH WEIR. REPLACE EXISTING SCUM TROUGH / TRACK WITH PROPOSED SCUM BEACH. EXISTING SKIMMER TO BE RETROFITTED AS NEEDED.
- PROVIDE MINIMUM 6" CONCRETE CURB AROUND CLARIFIER WALL. REMOVE AND RE-INSTALL HANDRAILS AS REQUIRED.

TRICKLING FILTER

- EXISTING ROTATING ARM MECHANISM TO BE REPLACED IN KIND. EXISTING STONE FILTER MEDIA TO BE REPLACED WITH NEW POLYPROPYLENE MEDIA. EXISTING ROOF SHALL BE REMOVED AND REPLACED IN ITS ENTIRETY, INCLUDING BLOWER VENT AND CEILING LIGHT.


ELECTRICAL / CONTROL BUILDING

- REMOVE ALL PUMPS, ELECTRICAL CONTROLS AND OTHER RELATED EQUIPMENT AND APPURTENANCES.
- PROVIDE NEW PUMPS, PIPING, CONTROLS, FIRE ALARM SYSTEM, EQUIPMENT AND APPURTENANCES FOR THE PROPOSED SYSTEM.

	PARAMETER	AVERAGE	MAX
MONTHLY AVERAGE	FLOW (GPD)	8,100	22,000
	MAX INF. pH	8.50	8.90
	MAX EFF. pH	7.70	7.90
	INF. SETTLE SOLIDS (mL/L)	233.00	300.00
MEASURED ONCE PER MONTH	EFF. SETTLE SOLIDS (ML/L)	0.10	0.10
	INF. BOD ₅ (mg/L)	1036	1760
	EFF. BOD ₅ (mg/L)	10.32	13
	INF. SUSPENDED SOLIDS (mg/L)	854	2040
	EFF. SUSPENDED SOLIDS (mg/L)	5	5

MONTH	AVG. FLOW (MGD)	PEAK DAY FLOW (MGD)
SEPT-24	0.01107	0.022
OCT-24	0.01219	0.021
NOV-24	0.00947	0.013
DEC-24	0.00884	0.014
JAN-25	0.00545	0.011
FEB-25	0.00504	0.007
MAR-25	0.00503	0.007
APR-25	0.00873	0.008
MAY-25	0.01016	0.016

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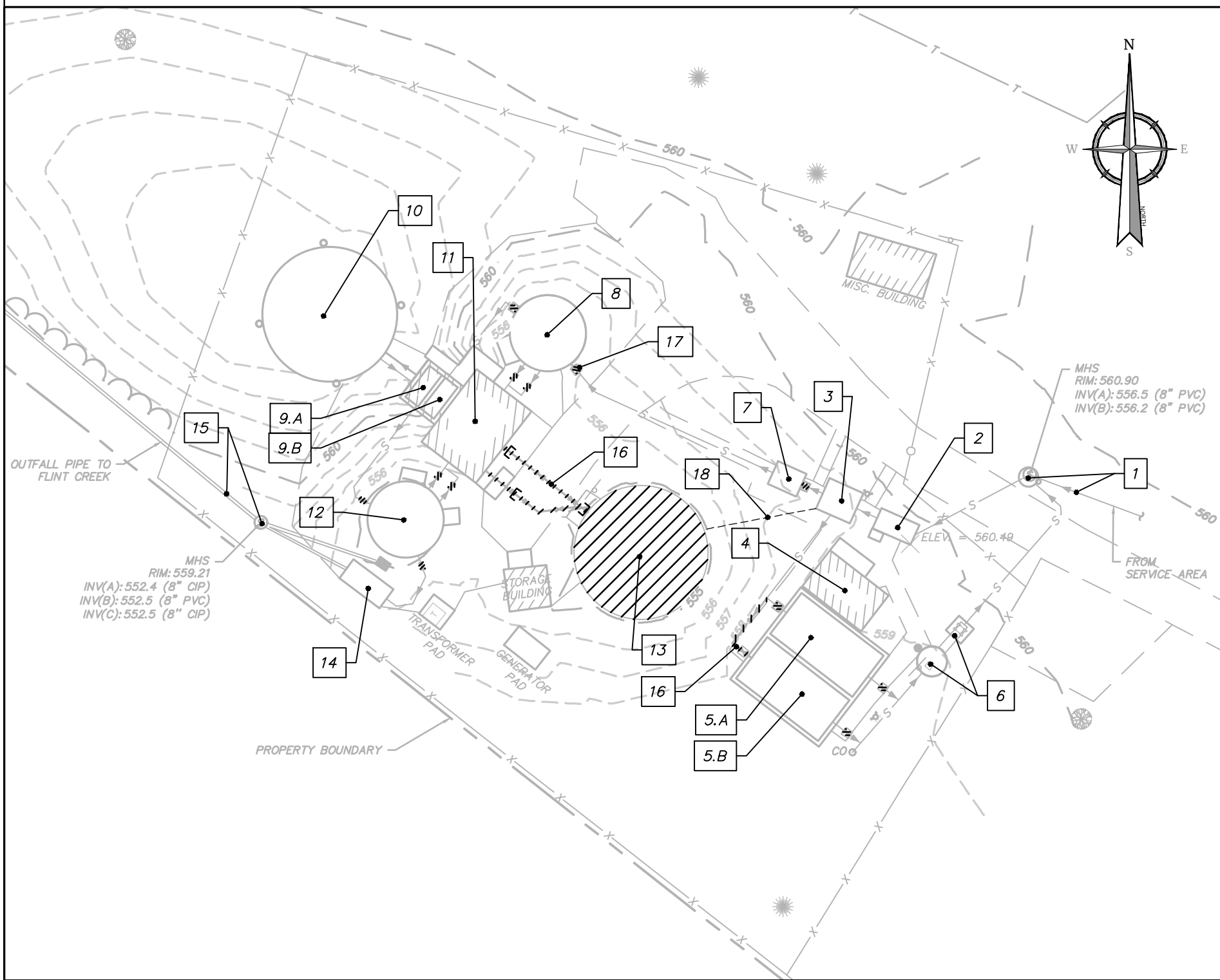
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT: REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT: MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING: PROJECT DESCRIPTION NOTES	DRAWING NUMBER: GN-3

PW:/
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SMB
 DESIGN SUPERVISOR: JBA



I.D.	ASSET
1	8" PVC GRAVITY PLANT INFLUENT PIPE AND INFLUENT MANHOLE TO REMAIN
2	EXISTING HEADWORKS STRUCTURE TO REMAIN. HYDRAULIC COMMUNICATOR TO BE RETROFITTED WITH MOTOR DRIVE COMMUNICATOR
3	FLOW DIVERSION STRUCTURE TO REMAIN. MODIFY AS NEEDED FOR PROPOSED BYPASS SYSTEM
4	BLOWER ENCLOSURE STRUCTURE AND EQUIPMENT TO REMAIN
5.A	EQUALIZATION TANK CHAMBER 1 TO REMAIN. AIR DIFFUSER PIPING TO BE REPLACED
5.B	EQUALIZATION TANK CHAMBER 2. EXISTING INFLUENT PENETRATION TO BE PLUGGED AND TANK TO BE CONVERTED TO SLUDGE HOLDING TANK
6	LOW LIFT PUMP STATION AND VALVE CHAMBER TO REMAIN
7	INFLUENT FLUME STRUCTURE TO REMAIN
8	PRIMARY CLARIFIER STRUCTURE TO REMAIN
9.A	UPPER WET WELL TO REMAIN. ACCESS HATCH TO BE SEALED AND FLOATS SHALL BE RELOCATED TO BE ACCESSIBLE FROM THE EXTERNAL ACCESS DOOR.
9.B	LOWER WET WELL TO REMAIN. ACCESS HATCH TO BE SEALED AND FLOATS SHALL BE RELOCATED TO BE ACCESSIBLE FROM THE EXTERNAL ACCESS DOOR.
10	EXISTING TRICKLING FILTER CONCRETE STRUCTURE TO REMAIN. TRICKLING FILTER MECHANISM, ROTATING ARM, ROOF, LIGHT, AND FAN TO BE REPLACED
11	PROCESS CONTROL BUILDING (PUMP HOUSE). REMOVE AND REPLACE EXISTING PUMPS AND PIPING IN BASEMENT
12	EXISTING SECONDARY CLARIFIER STRUCTURE TO REMAIN
13	DEMOLISH EXISTING SLUDGE HOLDING TANK - SEE DEMOLITION NOTE 2 BELOW
14	EFFLUENT FLUME STRUCTURE TO REMAIN
15	8" CIP GRAVITY PLANT EFFLUENT PIPE AND EFFLUENT MANHOLE TO REMAIN
16	PIPING TO AND FROM SLUDGE HOLDING TANK TO BE REMOVED / ABANDONED
17	ALL EXISTING YARD VALVES TO BE REPLACED. VALVE CHAMBER VALVES TO REMAIN. ALL YARD VALVES ARE 6" GATE VALVES. SAW CUT, REMOVE, AND REPLACE EXISTING PAVEMENT, SIDEWALK, OR CONCRETE BASE AS NECESSARY.
18	PROVIDE TEMPORARY PIPE - SEE DEMOLITION NOTE 2 BELOW

EXISTING CONDITIONS AND DEMOLITION SCHEDULE

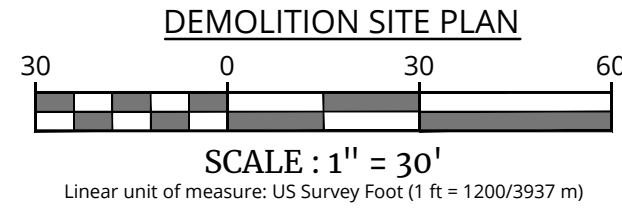
SCALE: NONE

DEMOLITION NOTES:

- ALL STRUCTURES SCHEDULED FOR DEMOLITION SHALL BE CUT AND REMOVED 3' BELOW GRADE. REMAINING BELOW-GRADE STRUCTURE TO BE ABANDONED SHALL HAVE HOLES CORED IN THE BOTTOM SLAB AND BE FILLED WITH CLEAN STONE. STONE SHALL BE COVERED WITH A WOVEN FILTER FABRIC COVERED BY 1-FOOT OF COMMON FILL AND 4" TOPSOIL.
- CONTRACTOR SHALL DEMOLISH THE SLUDGE HOLDING TANK AFTER THE PROPOSED WWTP IS INSTALLED AND IN OPERATION. CONTRACTOR SHALL UTILIZE THE EXISTING SLUDGE HOLDING TANK DURING CONSTRUCTION AS A HOLDING TANK FOR INFLUENT FROM THE REST AREA AND PROVIDE REMOVAL OF WASTE EVERY 10,000 GALLONS. REFER TO EXISTING FLOW DIVERSION STRUCTURE AND SLUDGE HOLDING TANK NOTES ON SHEET GN-3 FOR INFORMATION.

ALTERED ON: _____ AFFIXED ON: 4/10/2026

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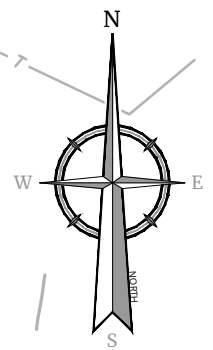
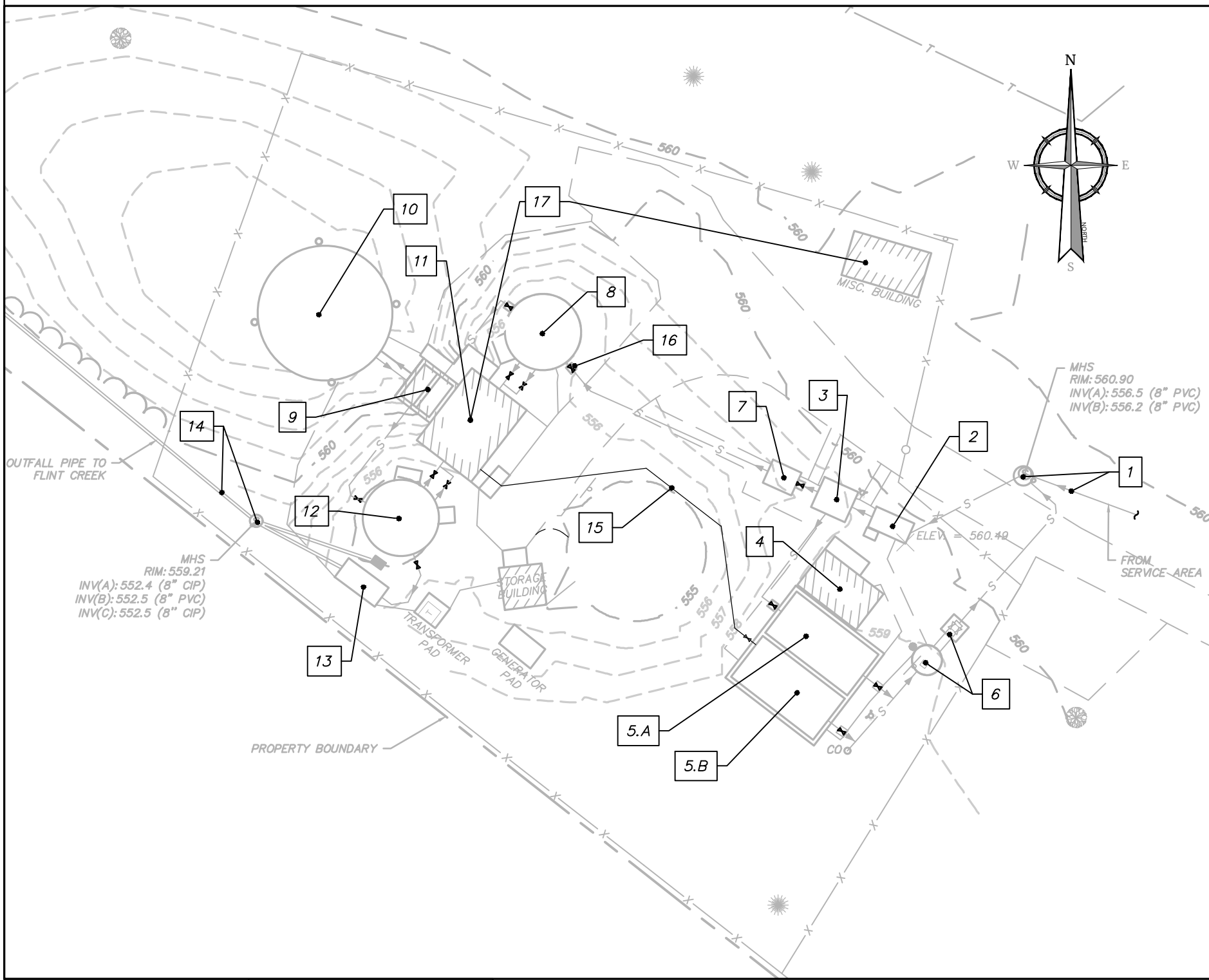
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING EXISTING SITE CONDITIONS & DEMOLITION PLAN	DRAWING NUMBER: C-1

PW:/
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SMB
 DESIGN SUPERVISOR: JBA

PW:/
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SMB
 DESIGN SUPERVISOR: JBA



I.D.	ASSET	PROPOSED IMPROVEMENT
1	INFLUENT GRAVITY PIPE AND MANHOLE	NONE
2	HEADWORKS STRUCTURE	HYDRAULIC DRIVE FOR COMMUNUTOR TO BE REPLACED WITH MOTOR DRIVE.
3	FLOW DIVERSION STRUCTURE	NONE
4	BLOWER ENCLOSURE	NONE
5.A	EQUALIZATION TANK CHAMBER 1	REPLACE AIR HEADER PIPE AND DIFFUSERS
5.B	EQUALIZATION TANK CHAMBER 2	CONVERT TO NEW SLUDGE HOLDING TANK
6	LOW LIFT PUMP STATION AND VALVE CHAMBER	NONE
7	INFLUENT FLUME STRUCTURE	NONE
8	PRIMARY CLARIFIER	INSTALL CONCRETE CURB AROUND PERIMETER TO INCREASE FREEBOARD. INSTALL NEW SCUM BEACH, WEIR, AND MODIFY SKIMMER.
9	WET WELL (UPPER AND LOWER WELLS)	SEAL HATCH BETWEEN WELL AND PUMP ROOM. RELOCATE FLOATS TO BE ACCESSIBLE FROM EXTERNAL ACCESS DOOR. COORDINATE WITH OPERATIONS STAFF ON LOCATION OF FLOATS.
10	TRICKLING FILTER	INSTALL NEW TRICKLING FILTER MECHANISM AND ROTATING ARM
11	PROCESS CONTROL BUILDING (PUMP HOUSE)	INSTALL NEW TRICKLING FILTER PUMPS, SLUDGE PUMPS, AND ASSOCIATED PIPING
12	SECONDARY CLARIFIER	INSTALL CONCRETE CURB AROUND PERIMETER TO INCREASE FREEBOARD. INSTALL NEW SCUM BEACH, WEIR, AND MODIFY SKIMMER.
13	EFFLUENT FLUME STRUCTURE	NONE
14	EFFLUENT GRAVITY PIPE AND MANHOLE	NONE
15	SLUDGE PIPING	INSTALL NEW 6" SLUDGE PIPING. PUMP DISCHARGE TO SLUDGE HOLDING TANK.
16	FACILITY YARD VALVES	INSTALL ALL NEW FACILITY YARD VALVES. SEE NOTE 2 BELOW.
17	PROCESS CONTROL BUILDING (PUMP HOUSE) AND MISC. BUILDING	INSTALL NEW FIRE PROTECTION SYSTEM

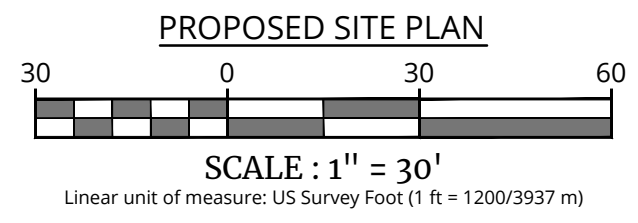
PROPOSED IMPROVEMENTS SCHEDULE
SCALE: NONE

NOTE:

1. THE NUMBERED ASSETS IN THE ABOVE TABLE ARE SPECIFIC TO THIS SHEET ONLY.
2. ALL YARD VALVES ARE 6" GATE VALVES. SAW CUT, REMOVE, AND REPLACE EXISTING PAVEMENT, SIDEWALK, OR CONCRETE BASE AS NECESSARY TO PERFORM VALVE REPLACEMENTS.
3. REFER TO SHEETS FA-001 TO FA-502 FOR FIRE ALARM SYSTEM INFORMATION.

ALTERED ON: _____ AFFIXED ON: 4/10/2026

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 STAMP: _____ STAMP: _____



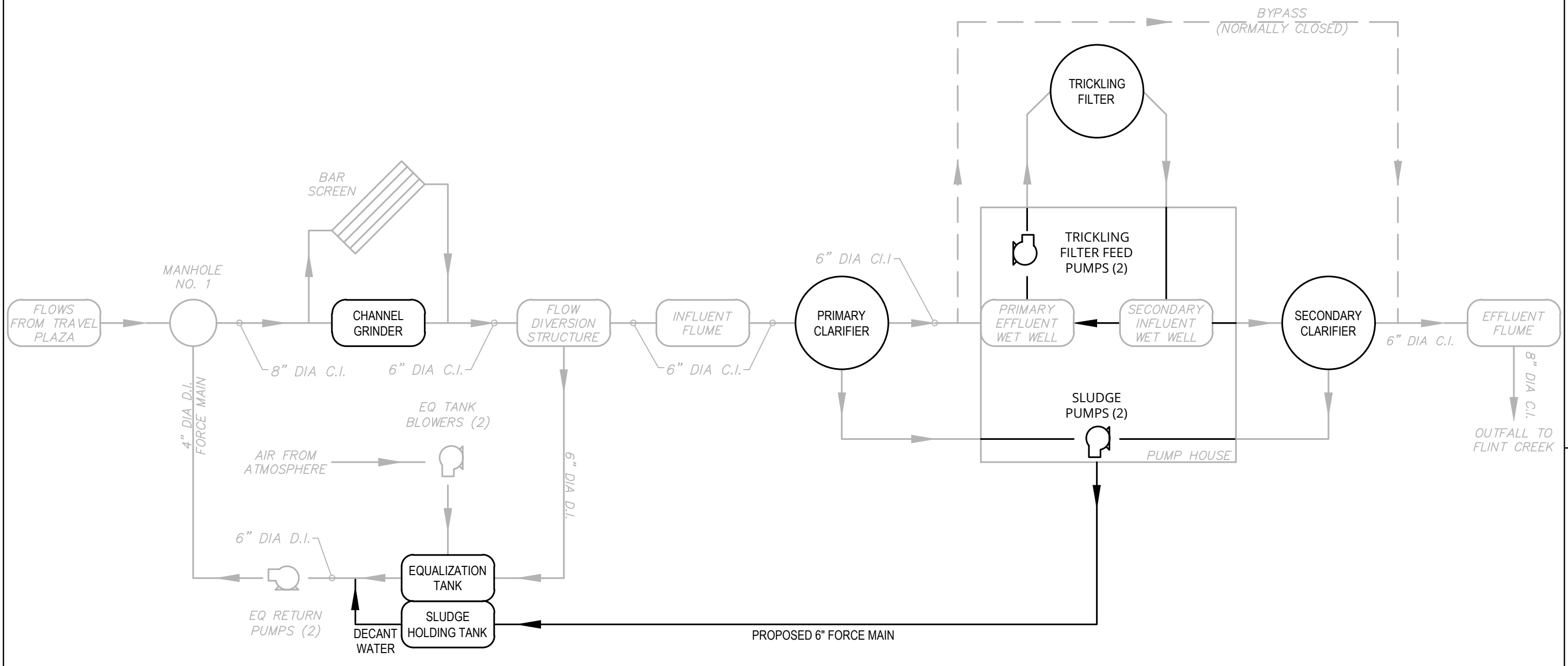
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



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LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING SITE IMPROVEMENTS & YARD PIPING PLAN	DRAWING NUMBER: C-2

PW:/
 CHECKED BY: JBA/RAP
 DRAFTED BY: SMB/I
 CHECKED BY: JBA/RAP
 DESIGNED BY: ERE/SMB
 DESIGN SUPERVISOR: JBA



PROCESS FLOW DIAGRAM

SCALE: NONE

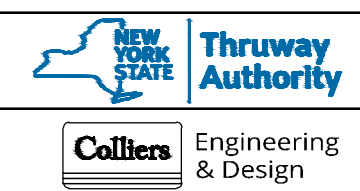
NOTES:

- EXISTING STRUCTURES AND PIPES TO REMAIN ARE SHOWN IN GRAY. STRUCTURES AND PIPES IN WHICH IMPROVEMENT ARE TO BE MADE ARE SHOWN IN BLACK. SEE FOLLOWING MECHANICAL SHEETS FOR DETAILS OF PROPOSED IMPROVEMENTS.

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LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING PROCESS FLOW DIAGRAM	DRAWING NUMBER: M-1

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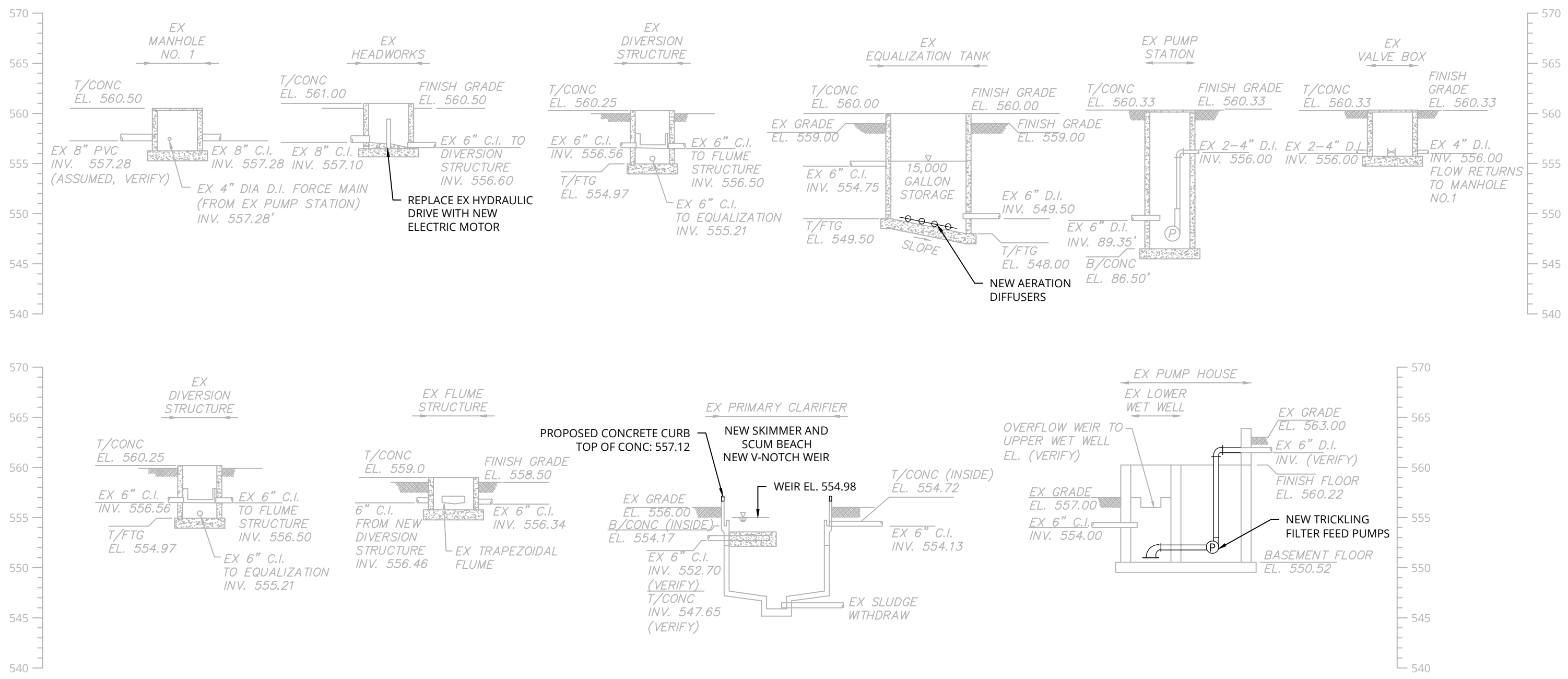
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DESIGNED BY: ERE/SMB

DESIGN SUPERVISOR: JBA



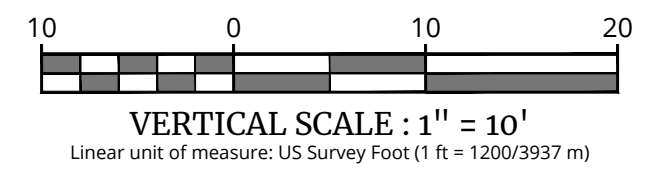
HYDRAULIC PROFILE

VERTICAL SCALE: 1"=10'

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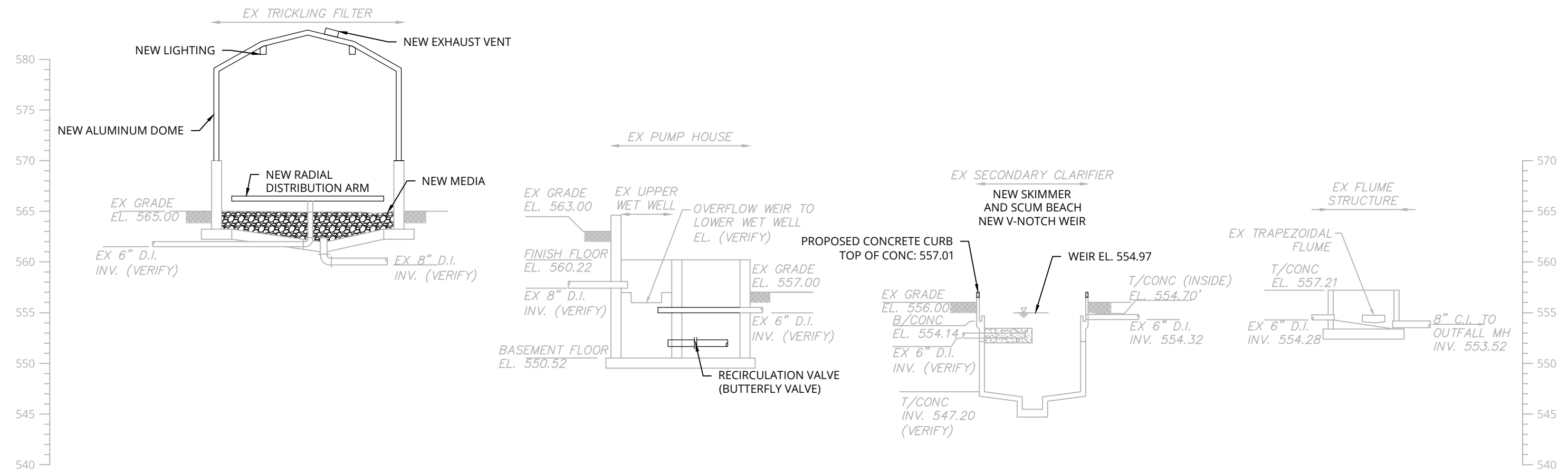
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LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING HYDRAULIC PROFILE	DRAWING NUMBER: M-2


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 DRAFTED BY: SMB/
 CHECKED BY: JBA/RAP
 DESIGNED BY: ERE/SMB
 DESIGN SUPERVISOR: JBA



HYDRAULIC PROFILE
 VERTICAL SCALE: 1"=10'



VERTICAL SCALE : 1" = 10'
 Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

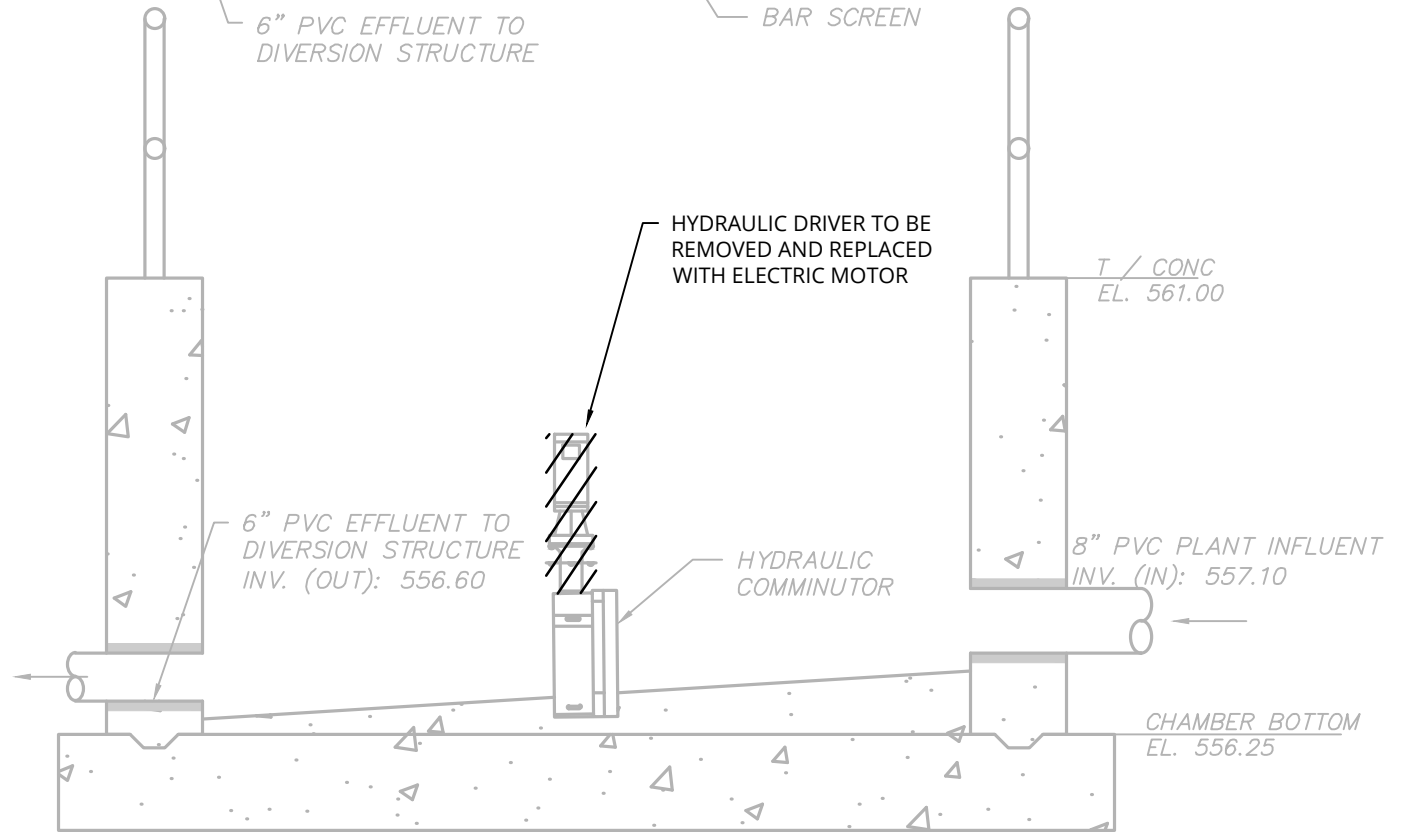
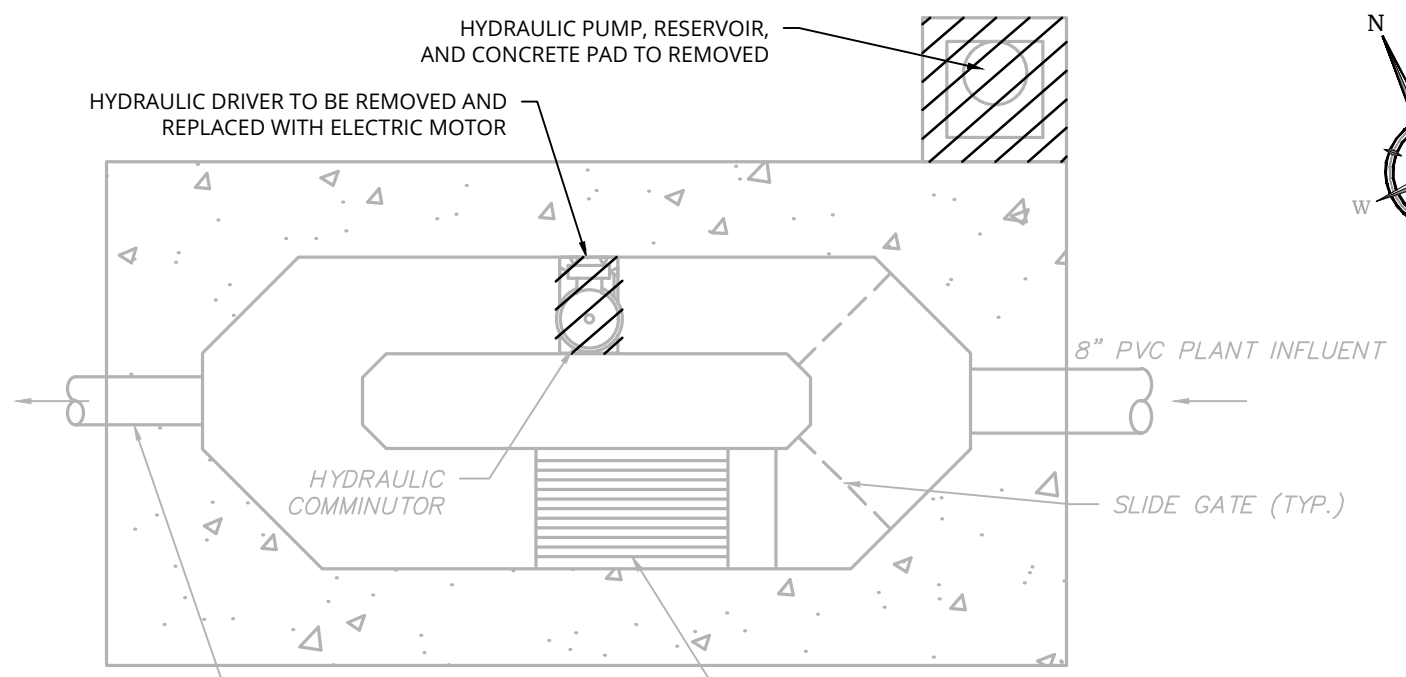
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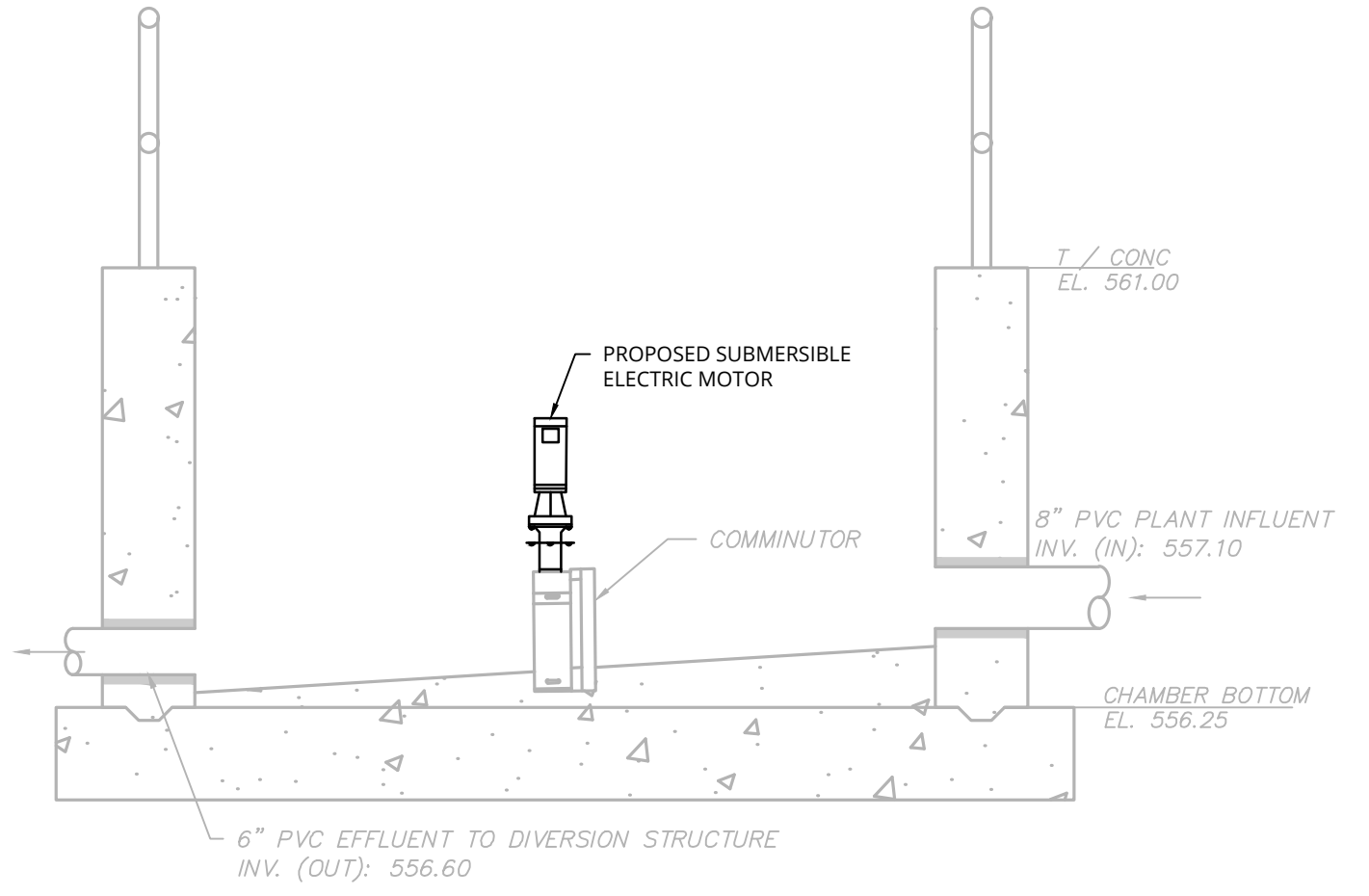
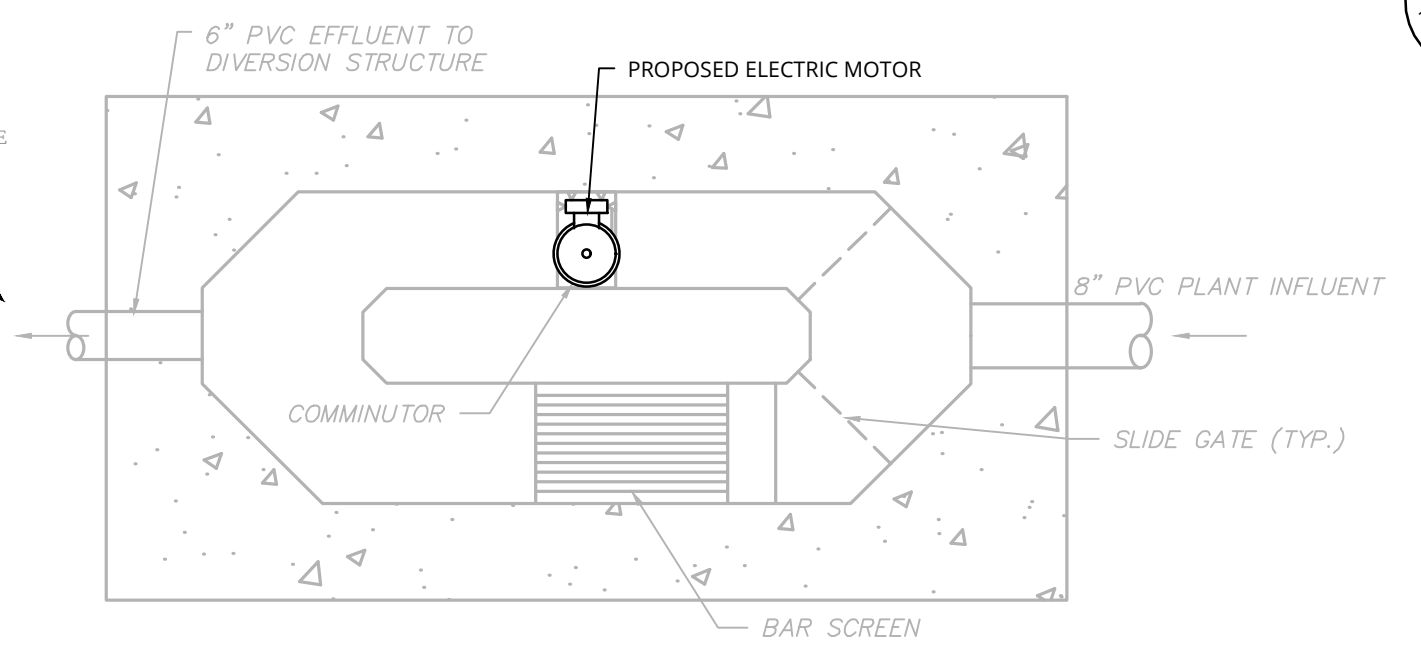
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING HYDRAULIC PROFILE	DRAWING NUMBER: M-3



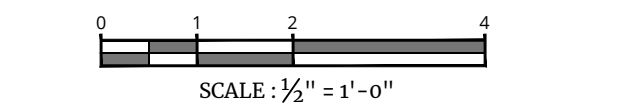
HEADWORKS EQUIPMENT PLAN AND SECTION DEMOLITION PLAN
SCALE: 1/2"=2'



HEADWORKS EQUIPMENT PLAN AND SECTION IMPROVEMENTS PLAN
SCALE: 1/2"=2'

PW:/
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SMB
 DESIGN SUPERVISOR: JBA

ALTERED ON:	AFFIXED ON: 4/10/2026
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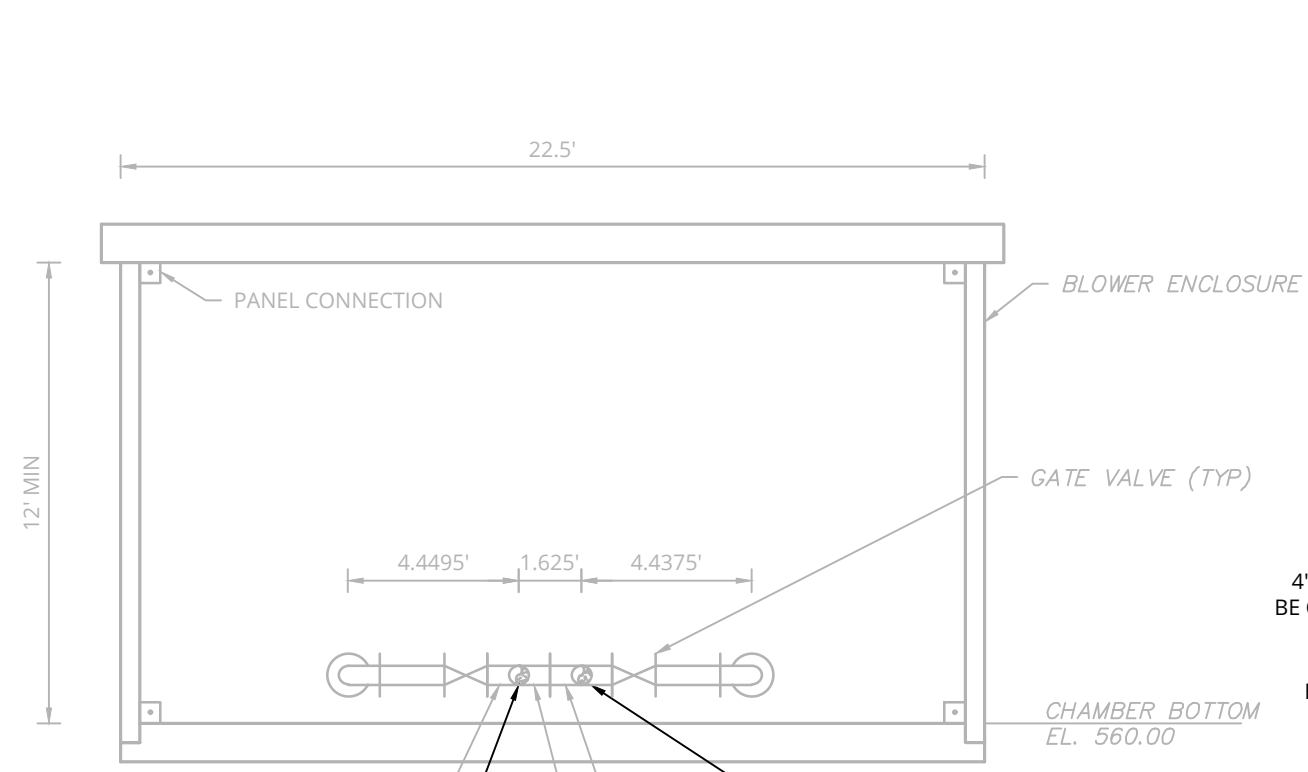


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REVISIONS			
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LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING HEADWORKS DEMOLITION AND PROPOSED PLAN AND SECTION	DRAWING NUMBER: M-4

PW:/
 CHECKED BY: JBA/RAP
 DRAFTED BY: SMB/
 CHECKED BY: JBA/RAP
 DESIGNED BY: ERE/SMB
 DESIGN SUPERVISOR: JBA



BLOWER ENCLOSURE SECTION 'A'

SCALE: 1"=5'

ABANDONMENT NOTES:

- ALL PIPE PENETRATIONS TO BE PLUGGED WITH CONCRETE AND SEALED WITH SIKA SWELLSTOP OR APPROVED EQUAL. REFER TO DETAIL SHEET SD-2 FOR PIPE DEMOLITION DETAILS.

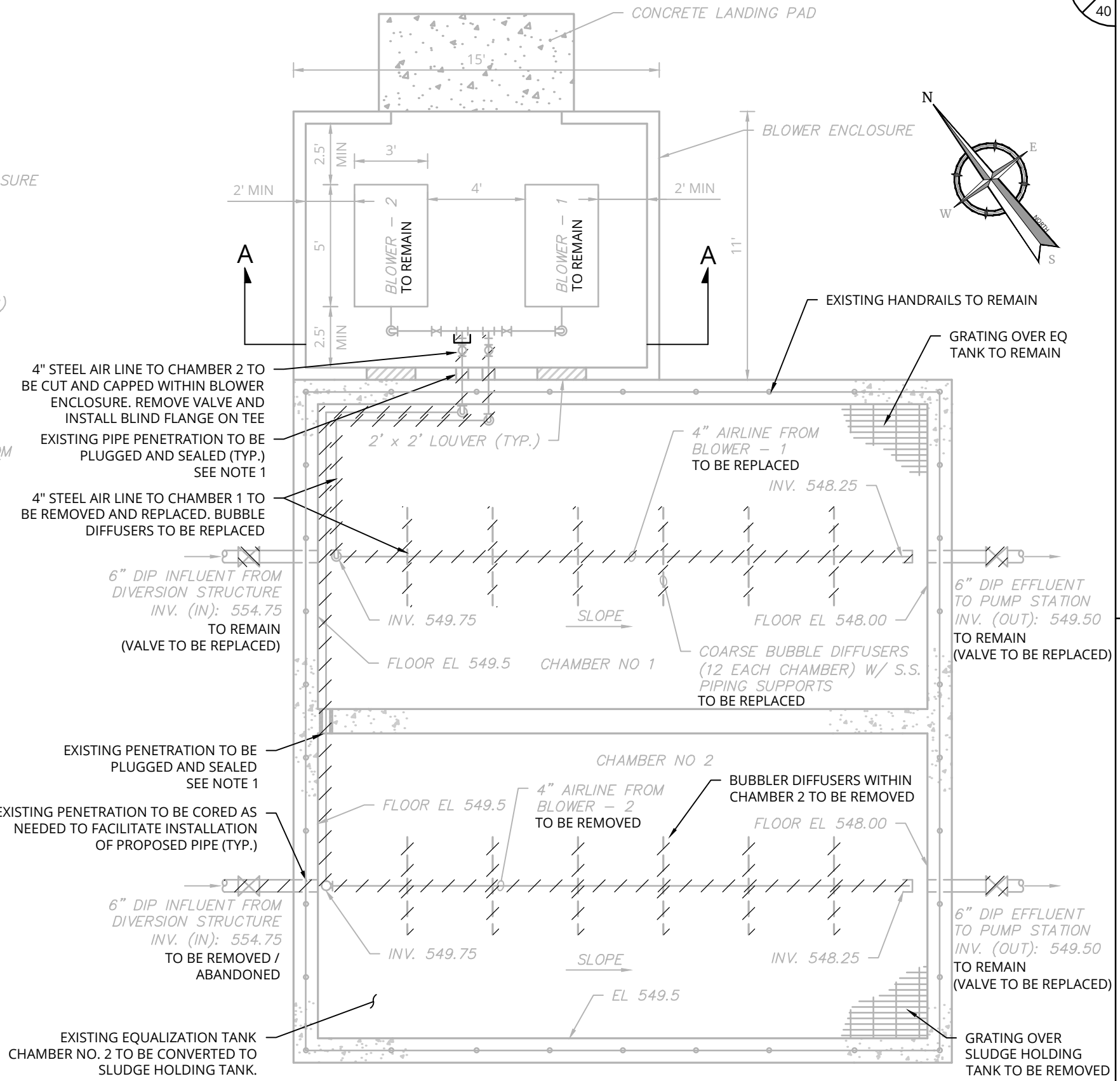


SCALE : 1" = 5'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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EQUALIZATION TANK AND BLOWER ENCLOSURE PLAN

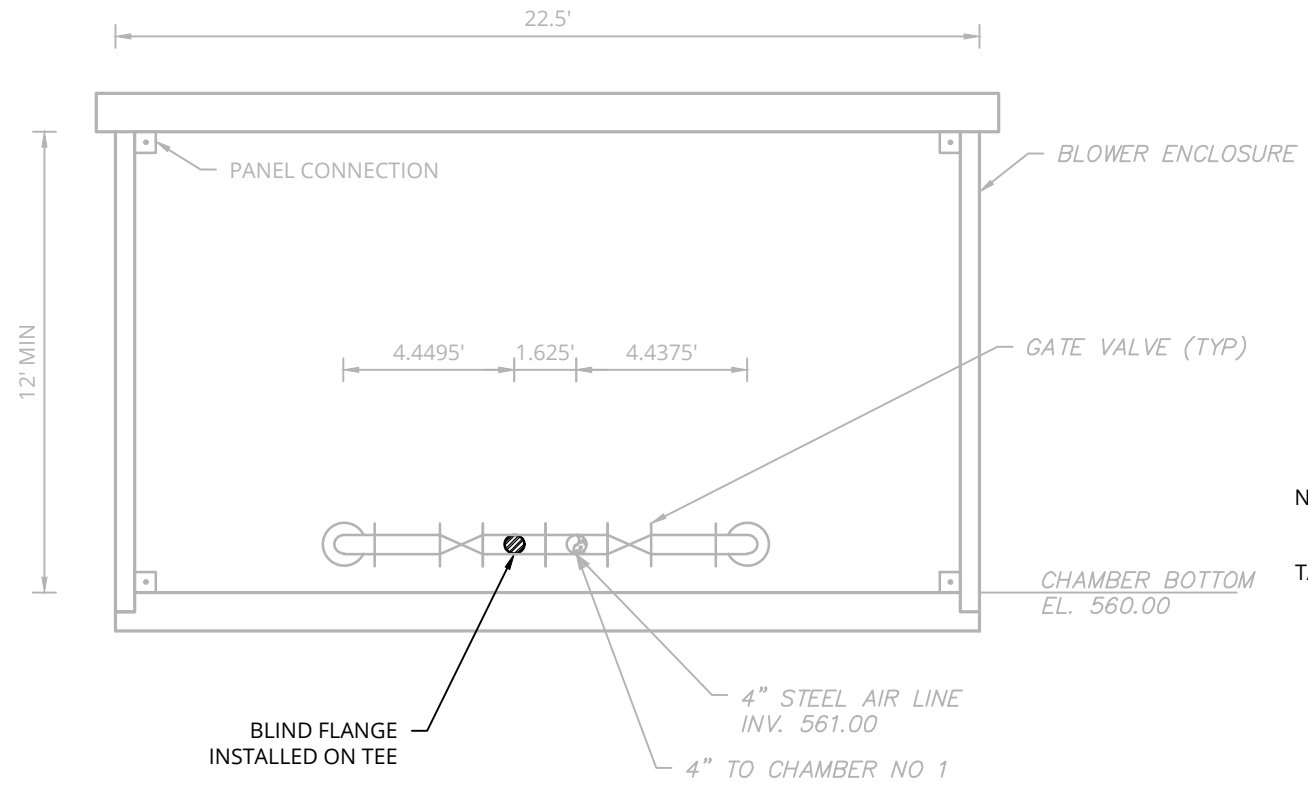
SCALE: 1"=5'

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING EQUALIZATION TANKS DEMOLITION PLAN AND SECTION	DRAWING NUMBER: M-5

PW:/
 CHECKED BY: JBA/RAP
 DRAFTED BY: SMB/
 CHECKED BY: JBA/RAP
 DESIGNED BY: ERE/SMB
 DESIGN SUPERVISOR: JBA



BLOWER ENCLOSURE SECTION 'A'

SCALE: 1"=5'

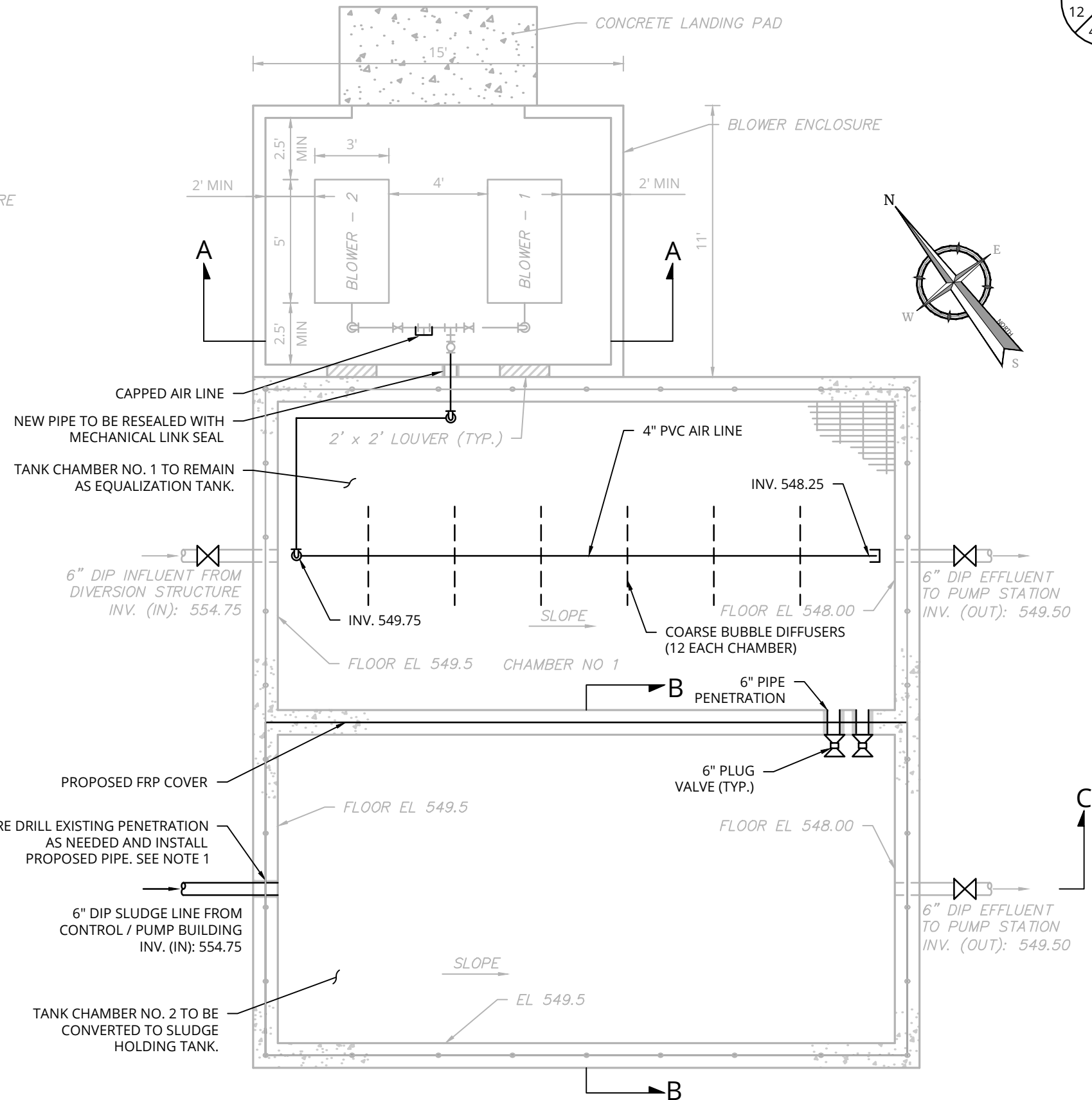
NOTES:

- EXISTING STRUCTURES SHALL BE CORED DRILLED AND NEW PIPES TO BE INSTALLED WITH MECHANICAL LINK SEAL. REFER TO "EXISTING MANHOLE / STRUCTURE PENETRATION" DETAIL ON SHEET SD-1.
- ALL PIPE TO BE INSTALLED WITH LESS THAN 5-FEET OF COVER TO BE HEAT TRACED AND INSULATED. REFER TO SHEET SD-4 FOR DETAILS.
- SECTIONS 'B' AND 'C' CAN BE FOUND ON SHEET M-7.



SCALE : 1" = 5'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)



EQUALIZATION TANK AND BLOWER ENCLOSURE PLAN

SCALE: 1"=5'

ALTERED ON:	AFFIXED ON: 4/10/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:

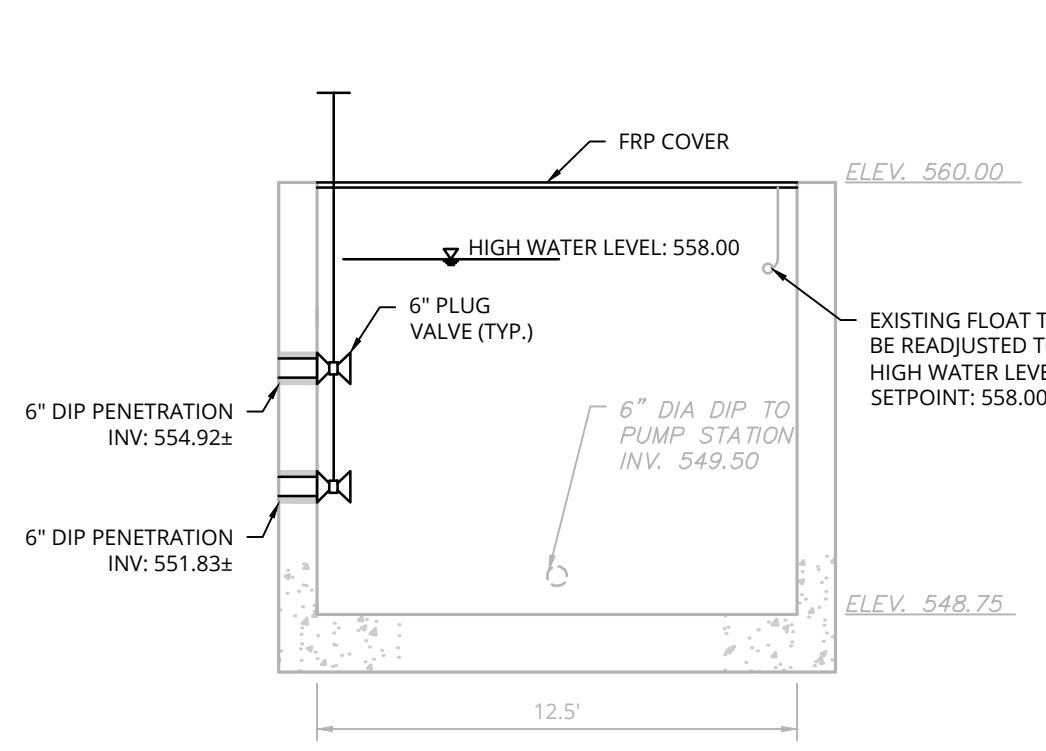
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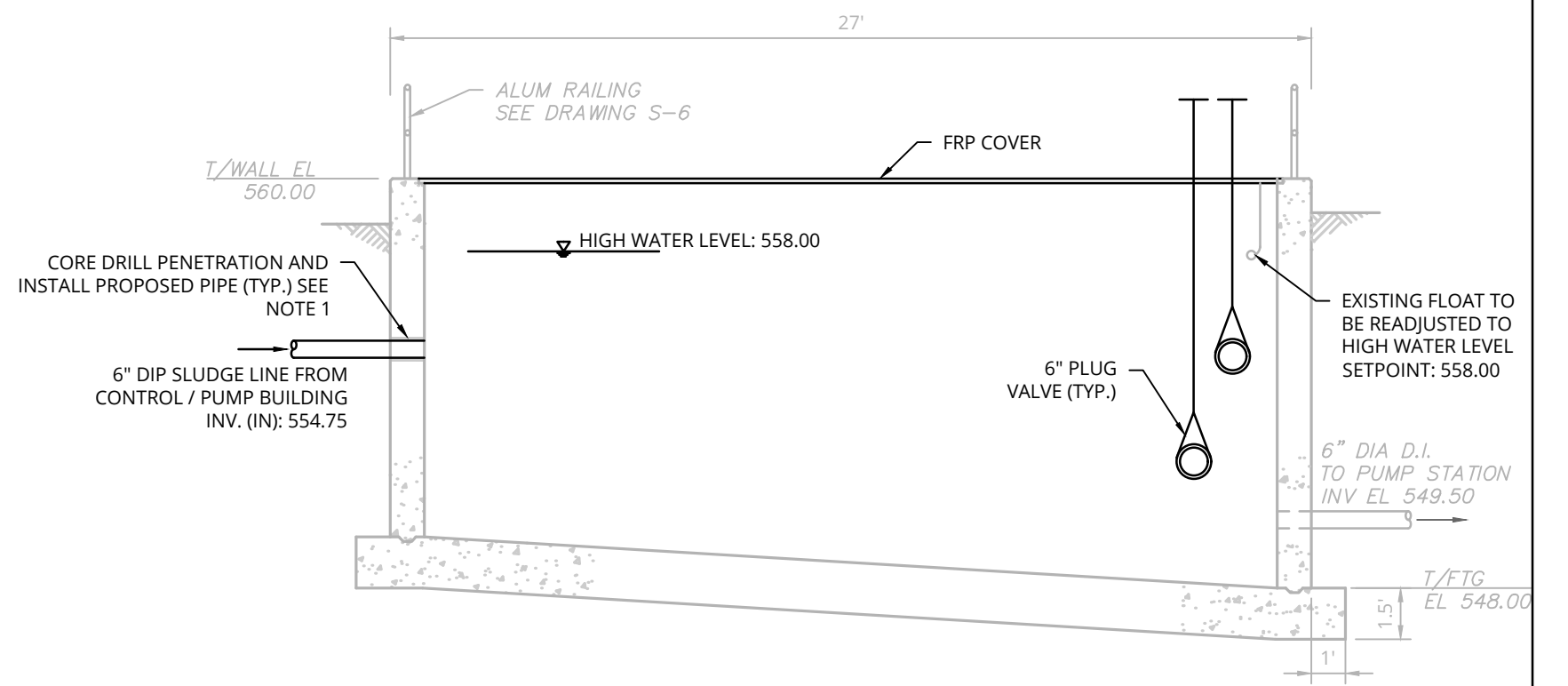
TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING EQUALIZATION / SLUDGE HOLDING TANK PROPOSED PLAN AND SECTION	DRAWING NUMBER: M-6

PW:/
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SMB
 DESIGN SUPERVISOR: JBA



SLUDGE HOLDING TANK SECTION 'B'

SCALE: 1"=5'



SLUDGE HOLDING TANK SECTION 'C'


SCALE: 1"=5'

NOTES:

- EXISTING STRUCTURES SHALL BE CORED DRILLED AND NEW PIPES TO BE INSTALLED WITH MECHANICAL LINK SEAL. REFER TO "EXISTING MANHOLE / STRUCTURE PENETRATION" DETAIL ON SHEET SD-1.
- ALL PIPE TO BE INSTALLED WITH LESS THAN 5-FEET OF COVER TO BE HEAT TRACED AND INSULATED. REFER TO SHEET SD-4 FOR DETAILS.

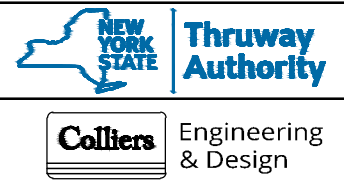


SCALE : 1" = 5'
 Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

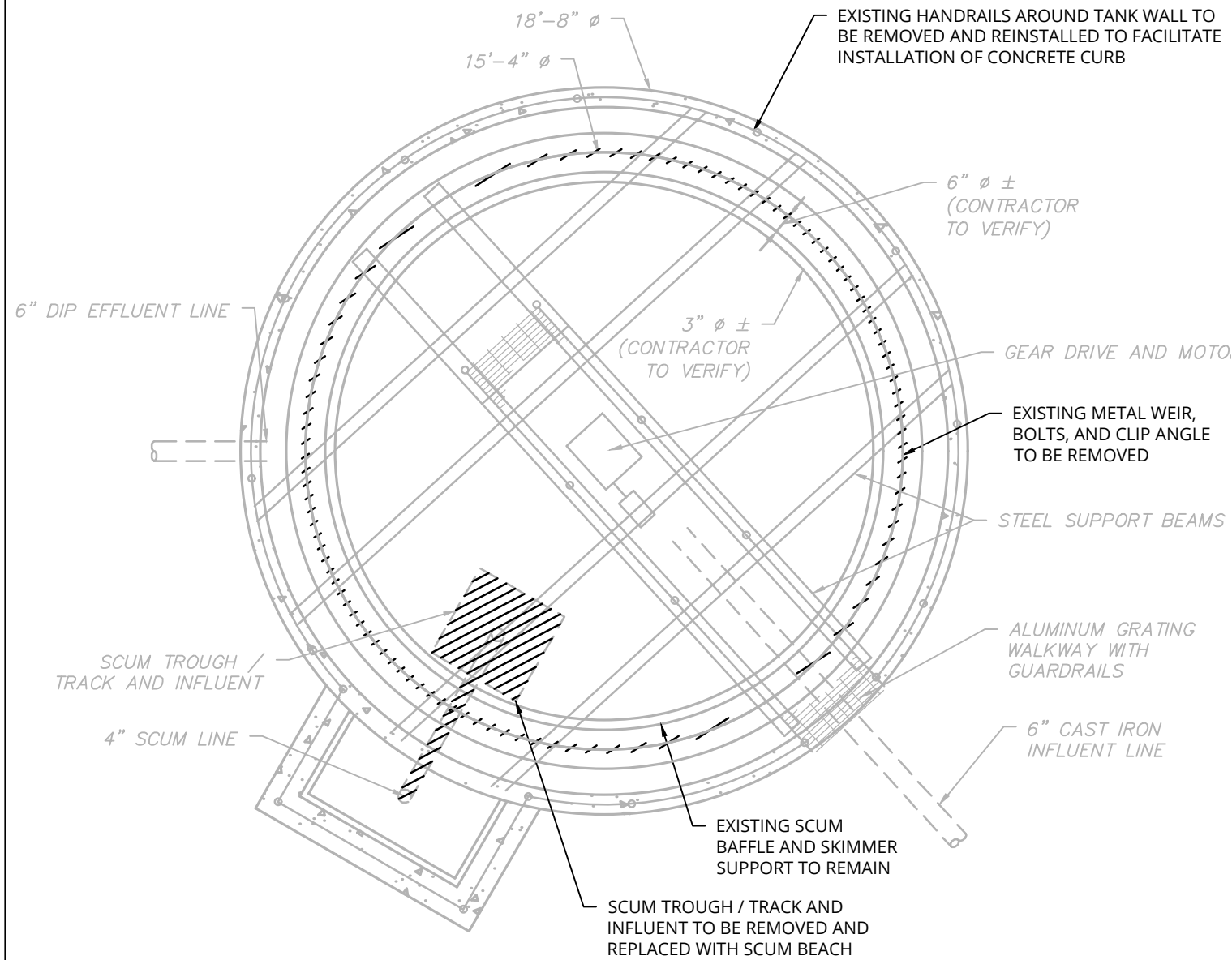
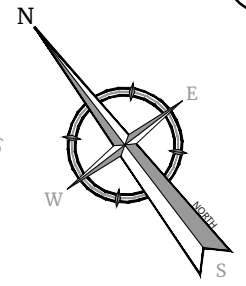
ALTERED ON:	AFFIXED ON: 4/10/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP: 

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

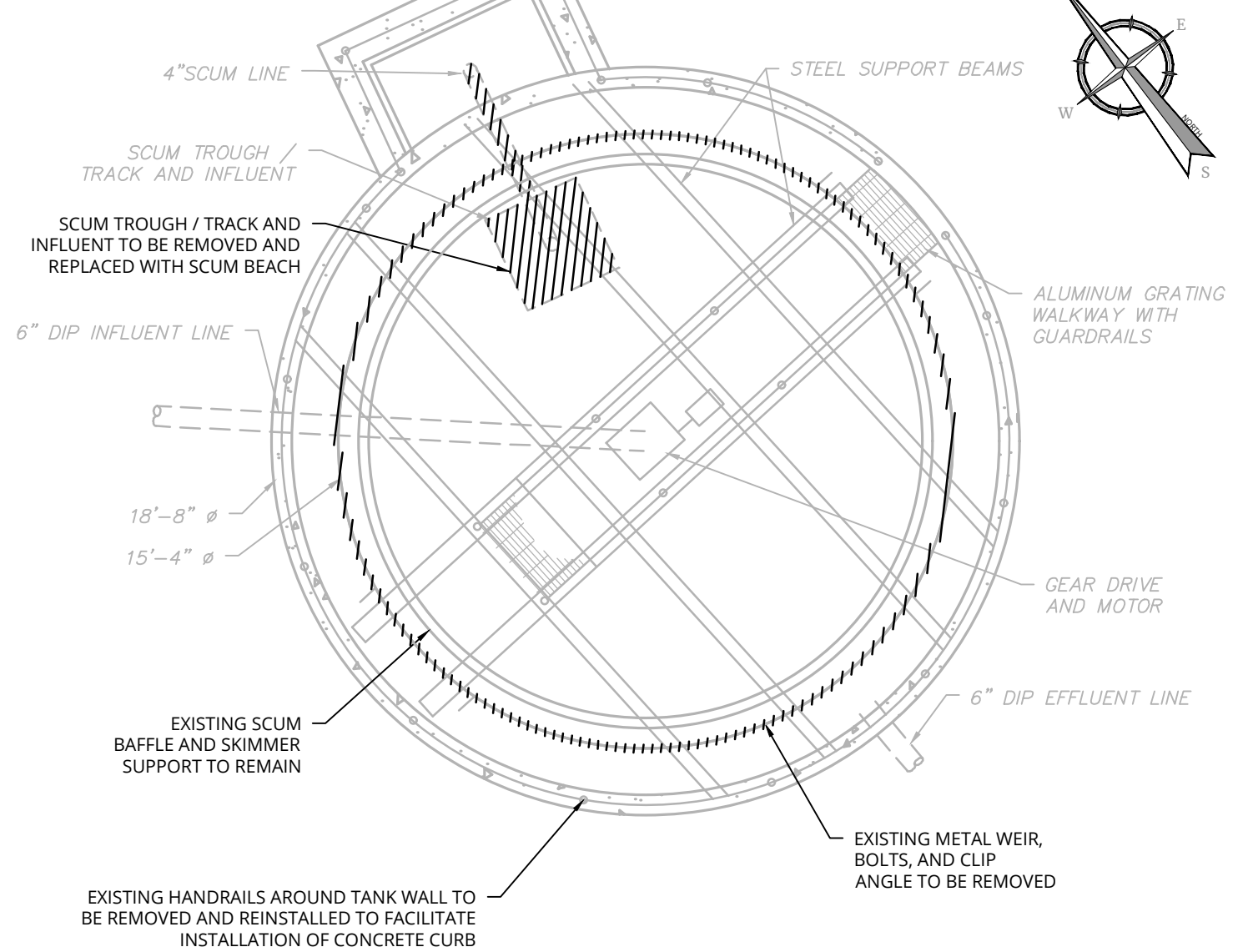
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING EQUALIZATION / SLUDGE HOLDING TANK PROPOSED SECTIONS	DRAWING NUMBER: M-7



PRIMARY CLARIFIER DEMOLITION PLAN
SCALE: 1"=4'



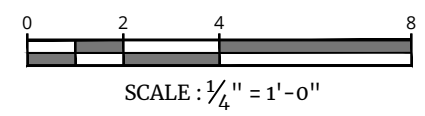
SECONDARY CLARIFIER DEMOLITION PLAN
SCALE: 1"=4'

PW:/
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SMB
 DESIGN SUPERVISOR: JBA

ALTERED ON:	AFFIXED ON: 4/10/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:

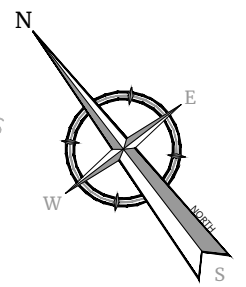
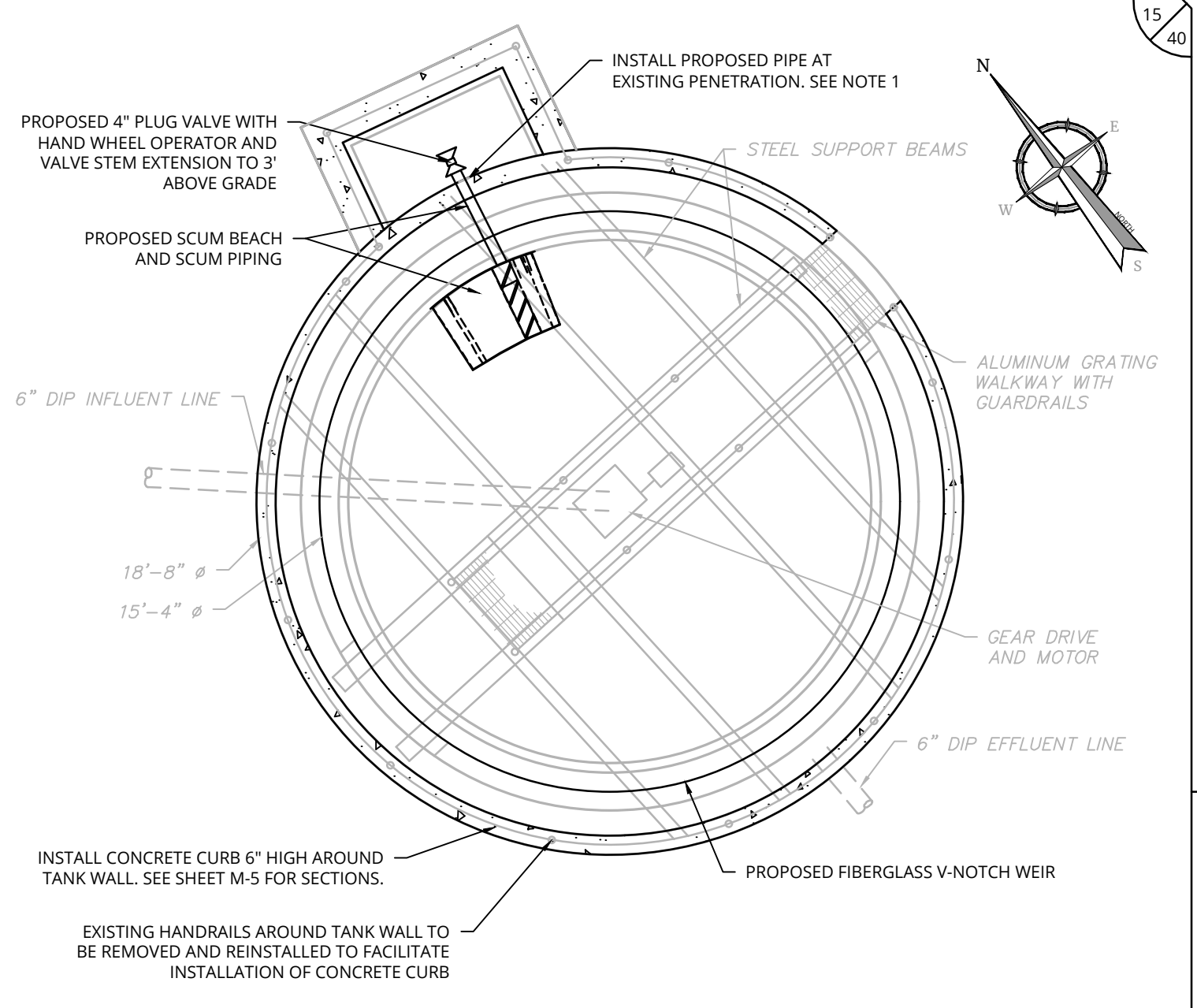
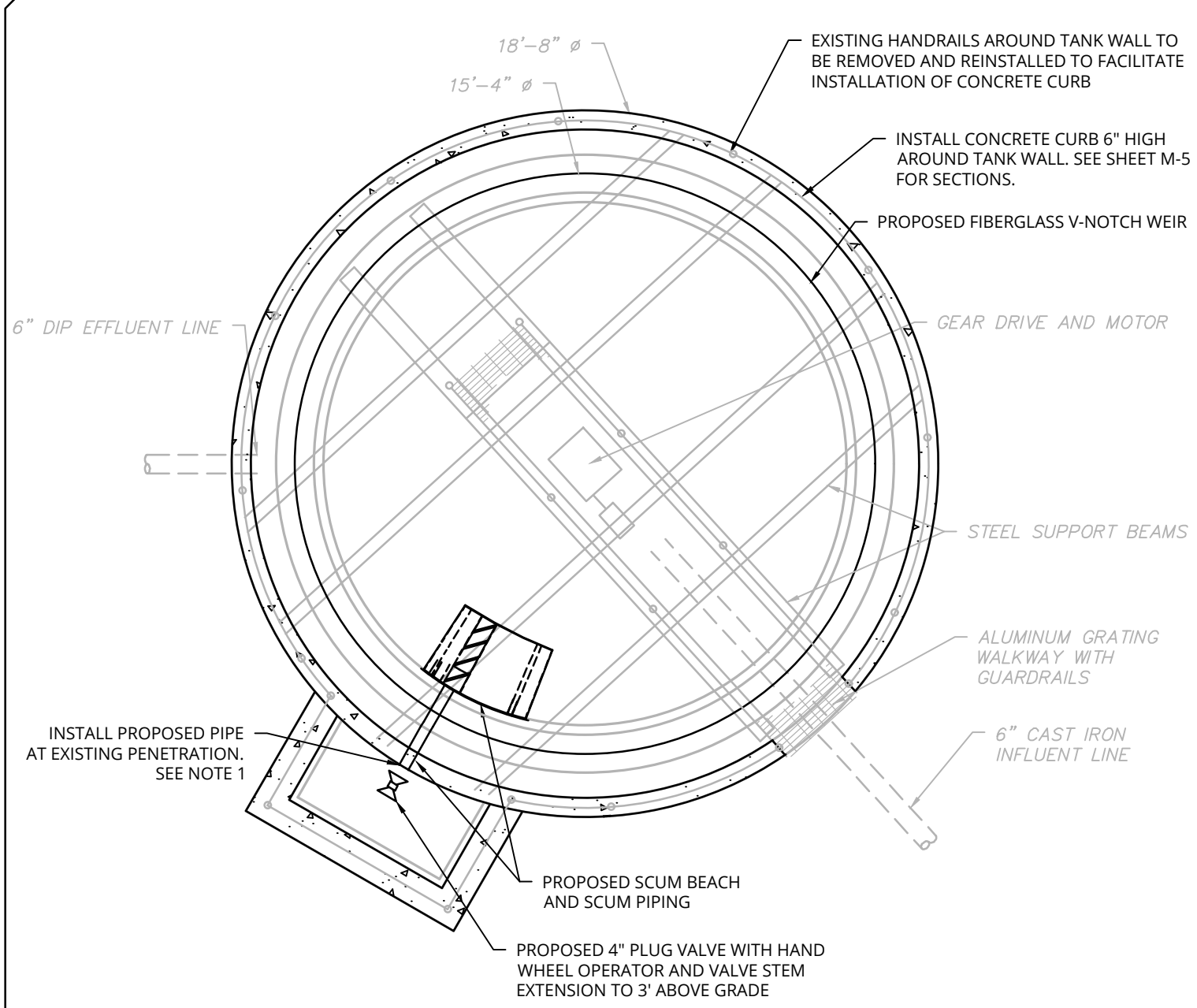
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING PRIMARY AND SECONDARY CLARIFIERS DEMOLITION PLAN	DRAWING NUMBER: M-8

PW:/
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SWB
 DESIGN SUPERVISOR: JBA



PRIMARY CLARIFIER PROPOSED IMPROVEMENTS PLAN

SCALE: 1"=4'

SECONDARY CLARIFIER PROPOSED IMPROVEMENTS PLAN

SCALE: 1"=4'

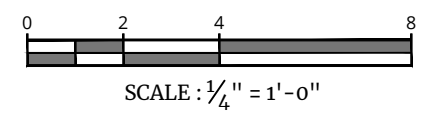
NOTES:

- EXISTING PENETRATIONS SHALL BE USED WHEN INSTALLING PROPOSED PIPE. ENLARGE AS NECESSARY FOR NEW PIPES TO BE INSTALLED WITH MECHANICAL LINK SEAL. REFER TO "EXISTING MANHOLE / STRUCTURE PENETRATION" DETAIL ON SHEET SD-1.

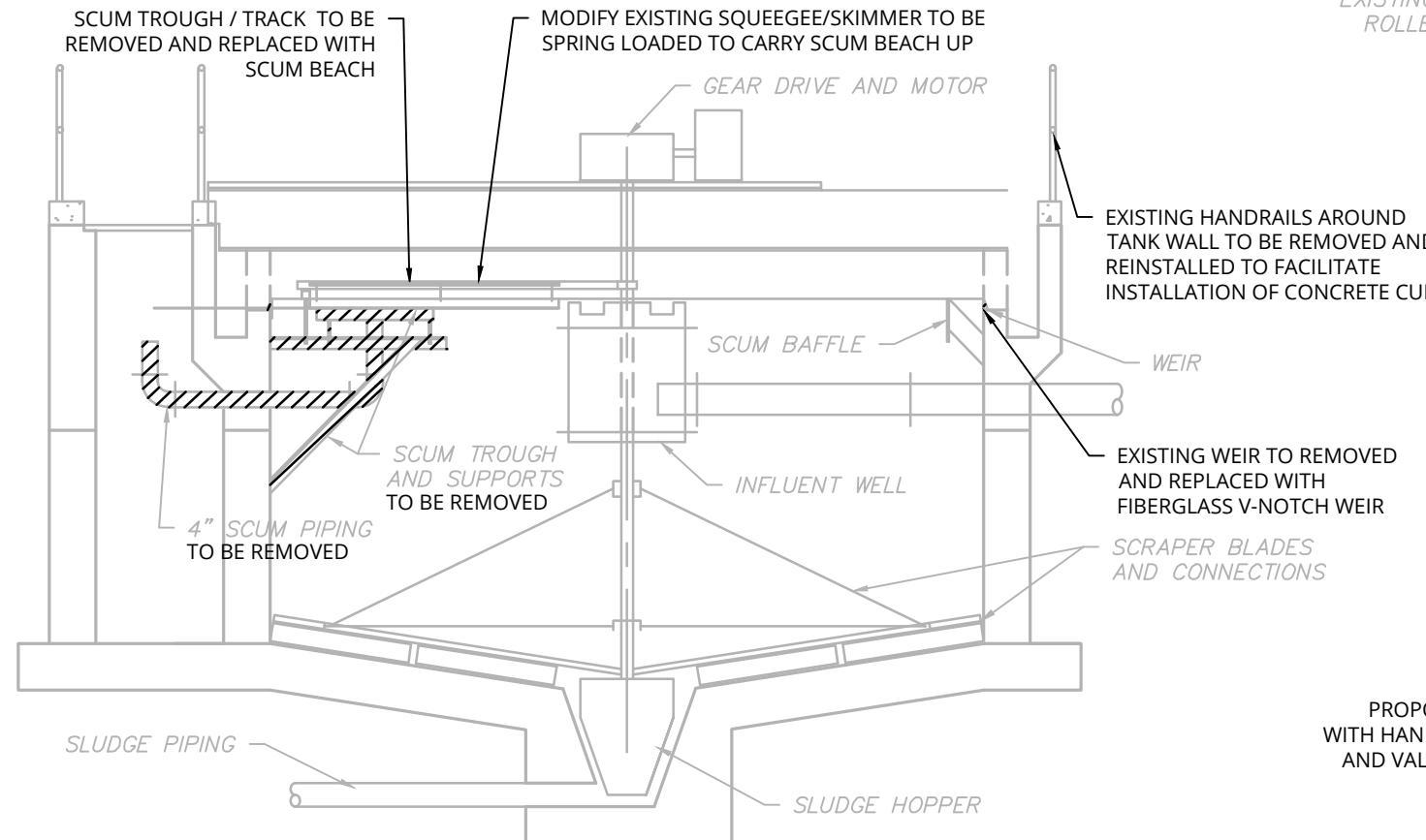
ALTERED ON:	AFFIXED ON: 4/10/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:

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DATE	DESCRIPTION	BY	SYM.

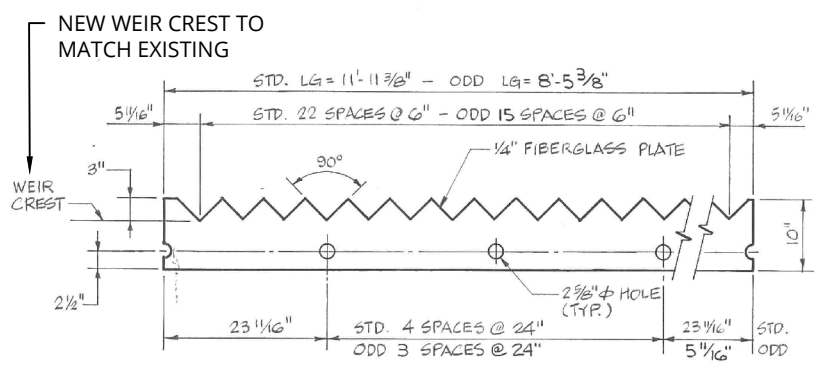


TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING PRIMARY AND SECONDARY CLARIFIERS PROPOSED PLAN	DRAWING NUMBER: M-9



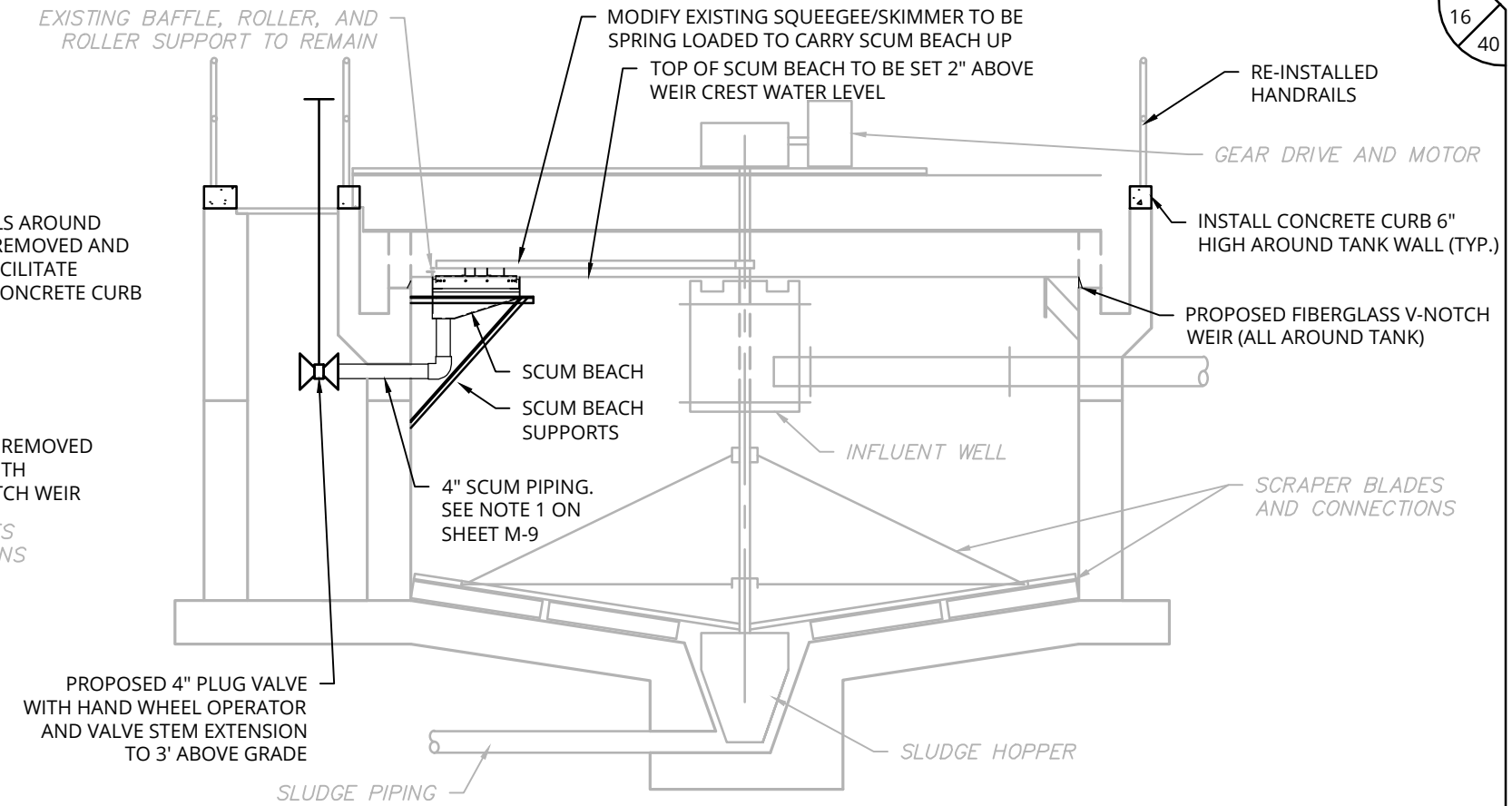
PRIMARY AND SECONDARY CLARIFIERS DEMO SECTION

SCALE: 1"=4'



FIBERGLASS V-NOTCH WEIR PLATE DETAIL

N.T.S

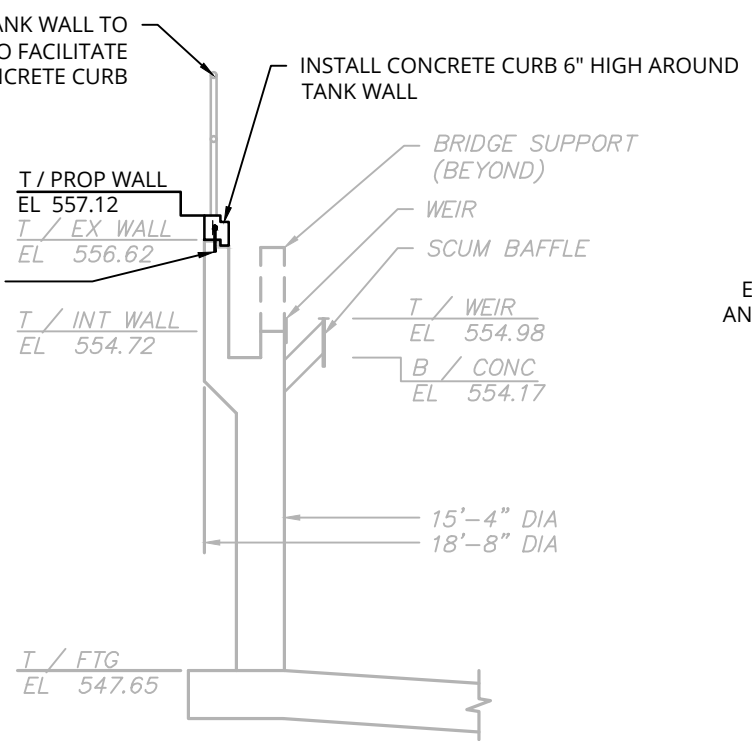


PRIMARY AND SECONDARY CLARIFIERS PROPOSED SECTION

SCALE: 1"=4'

EXISTING HANDRAILS AROUND TANK WALL TO BE REMOVED AND REINSTALLED TO FACILITATE INSTALLATION OF CONCRETE CURB

EPOXY DRILL IN DOWELS AND INSTALL WATER STOP

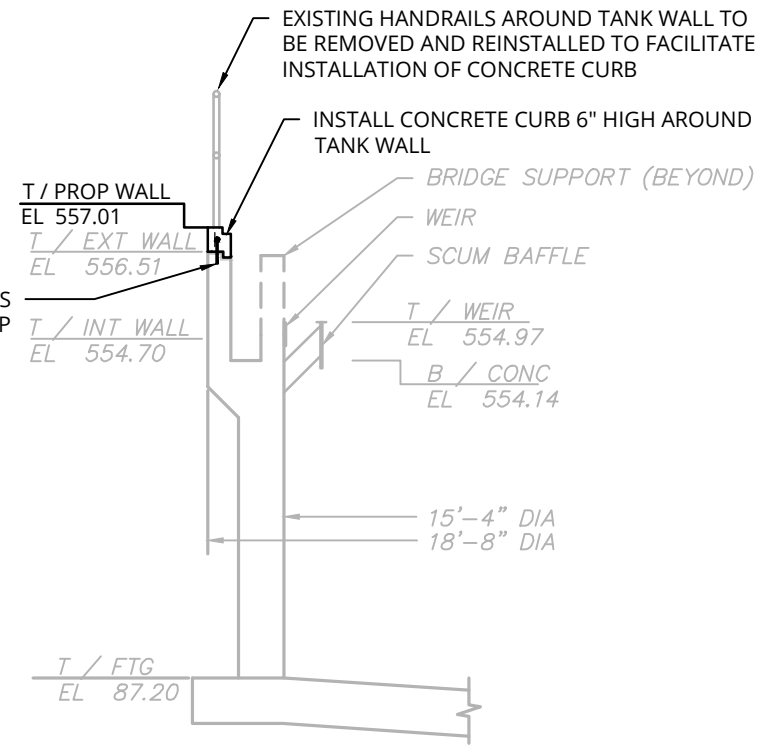


PRIMARY CLARIFIERS ELEVATIONS

SCALE: 1"=4'

EXISTING HANDRAILS AROUND TANK WALL TO BE REMOVED AND REINSTALLED TO FACILITATE INSTALLATION OF CONCRETE CURB

EPOXY DRILL IN DOWELS AND INSTALL WATER STOP



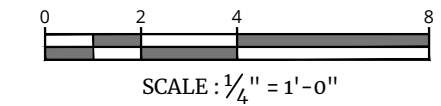
SECONDARY CLARIFIERS ELEVATIONS

SCALE: 1"=4'

ALTERED ON: _____ AFFIXED ON: 4/10/2026

SIGNATURE: _____ SIGNATURE: _____

STAMP: _____ STAMP: _____



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING PRIMARY AND SECONDARY CLARIFIERS SECTIONS AND DETAILS	DRAWING NUMBER: M-10

BUILDING ROOF AND FIXTURES, INCLUDING FAN AND LIGHTS TO BE REMOVED. SEE DETAIL B THIS SHEET

EXHAUST FAN TO BE REMOVED AND KEPT AS SPARE

REMOVE MECHANISM AND ROTATING ARMS AND REPLACE IN KIND

T/CONC
EL 568.62

EXISTING DOOR TO BE REMOVED AND OPENING FILLED WITH CONCRETE

AVG. GRADE 563.50

6" CAST IRON INFLUENT (INV.) IN: 562.15 ESTIMATED

STONE FILTER MEDIA AND UNDERDRAIN TO BE REMOVED AND REPLACED WITH PLASTIC FILTER MEDIA AND NEW UNDERDRAIN SYSTEM

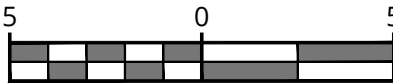
SEE DETAIL A THIS SHEET

EX CONC DISTRIBUTOR SUPPORT COLUMN



TRICKLING FILTER DEMOLITION SECTION

SCALE: 1"=5'



SCALE : 1" = 5'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

ROTARY DISTRIBUTION TO BE REMOVED AND REPLACED

ROTARY DISTRIBUTION

ROTARY DISTRIBUTION BASE & MAST



T/EX MEDIA

MAINTAIN INFLUENT OPENING

3" NON-SHRINK GROUT

LEVELING NUT

CONCRETE PEDESTAL

8-1" DIAx12" LONG, S.S. EPOXY ANCHORS W/ 5" PROJECTION

EX 6" DIA INFLUENT (VERIFY)

DETAIL 'A'

SCALE: 1"=2'



SCALE : 1/2" = 1'-0"

EXISTING EXHAUST FAN TO BE REMOVED AND KEPT AS SPARE

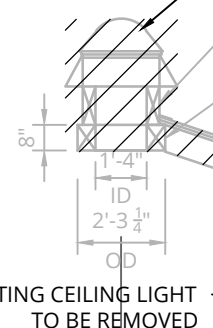
WOOD CURB (4'x4') SIZE OPENING TO MATCH EXHAUST FAN

6"-8" SEGMENTED WOOD RING

3/4" SHEATHING W/ 30# ROOFING FELT

ENTIRE ROOF TO BE REMOVED INCLUDING STANDING SEAM METAL ROOF, SHEATHING, AND WOOD BRIDGING/SUPPORTS

1" x 8" & EAVE FLASHING



2"x8" SOLID BRIDGING (TYP.)

2"x8" PLATE WITH 5/8" DIA ANCHOR BOLTS SPACED @ 3'-0" O.C. BOLTS TO BE CUT FLUSH TO CONCRETE AND LEFT IN PLACE

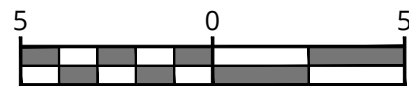
T/CONC EL. 568.62

CONC WALL

EXISTING CEILING LIGHT TO BE REMOVED

DETAIL 'B' - ROOF IMPROVEMENTS

SCALE: 1"=5'



SCALE : 1" = 5'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

ALTERED ON: AFFIXED ON: 4/10/2026

SIGNATURE: SIGNATURE: STAMP: STAMP:



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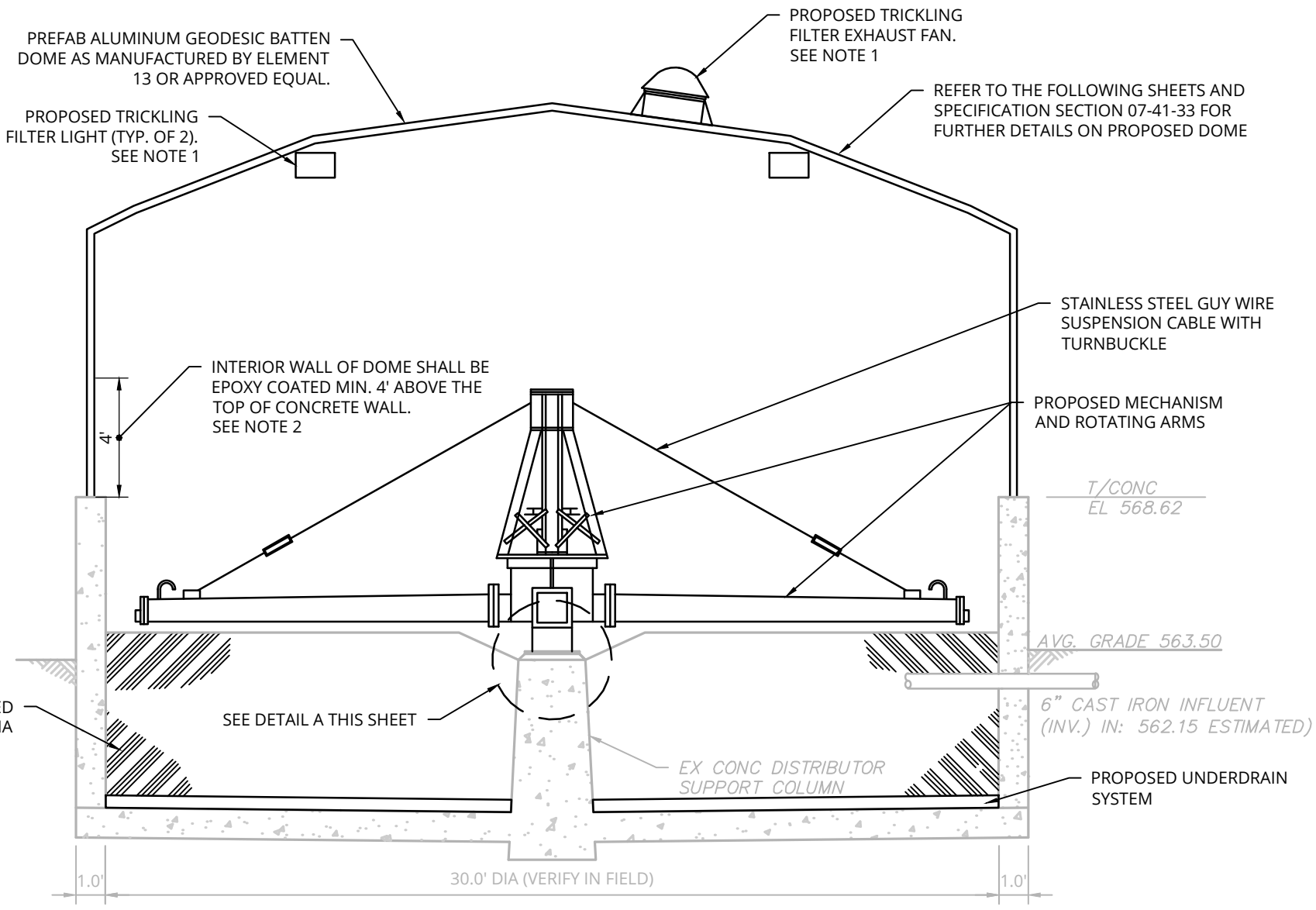
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING TRICKLING FILTER DEMOLITION PLAN AND SECTIONS	DRAWING NUMBER: M-11

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 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SMB
 DESIGN SUPERVISOR: JBA

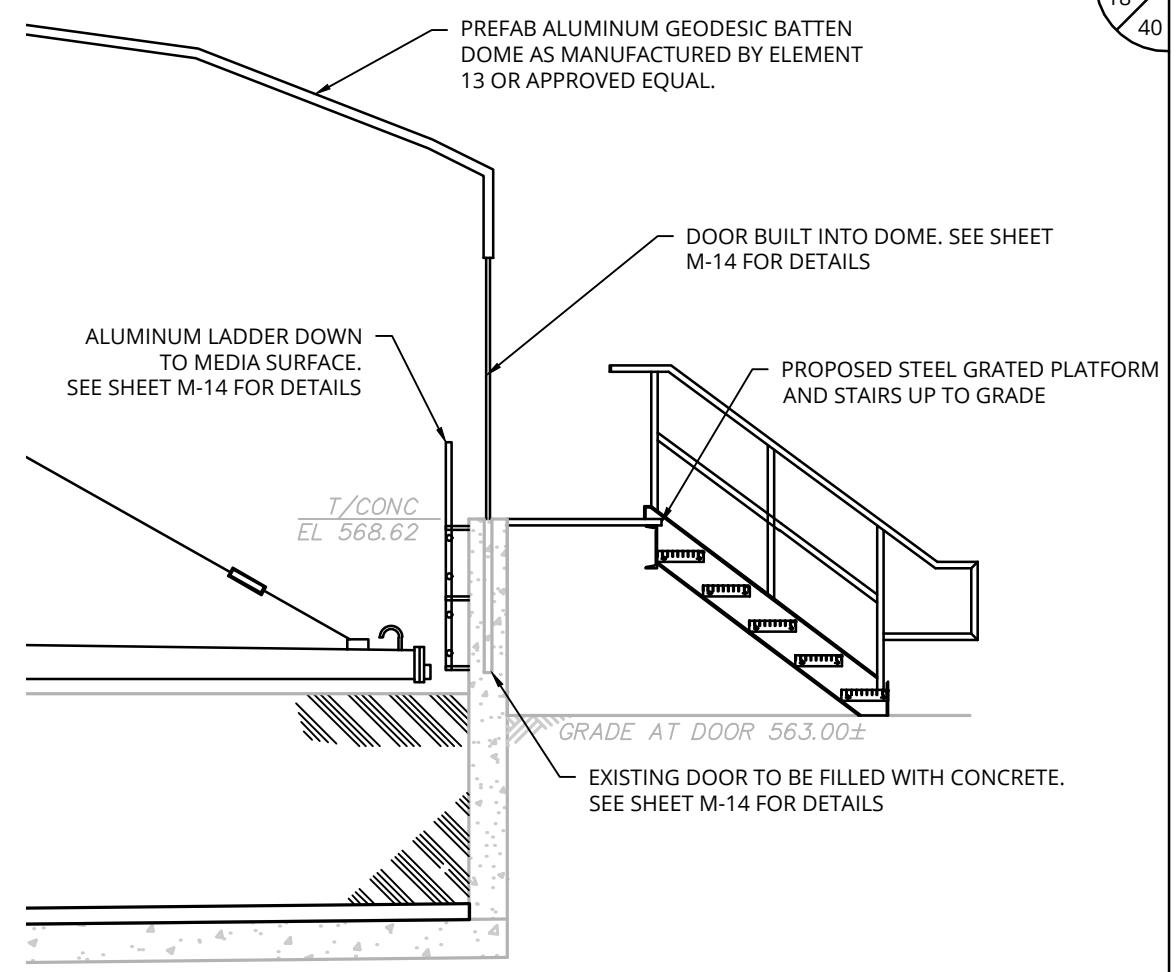
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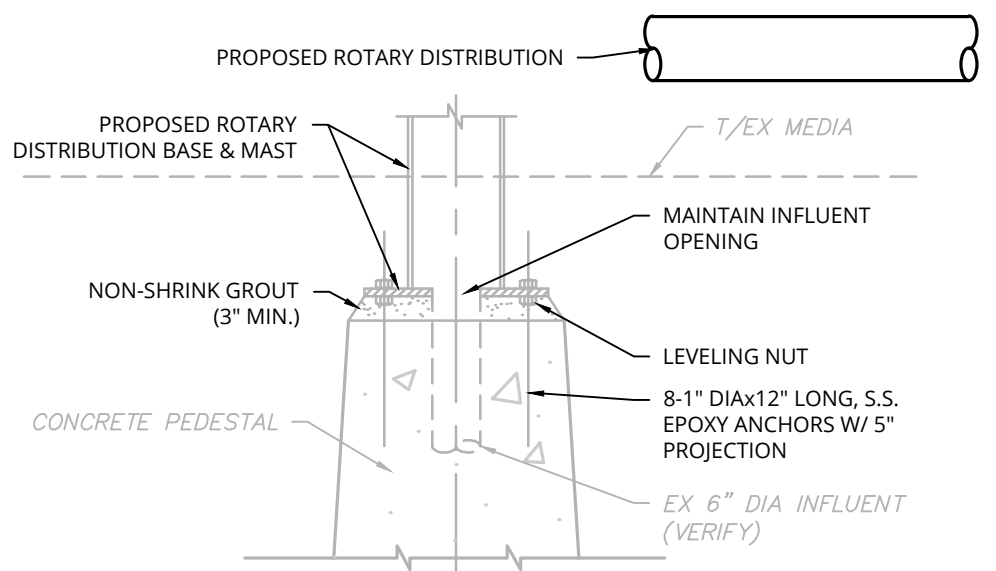
TRICKLING FILTER PROPOSED SECTION
SCALE: 1"=5'

NOTES:

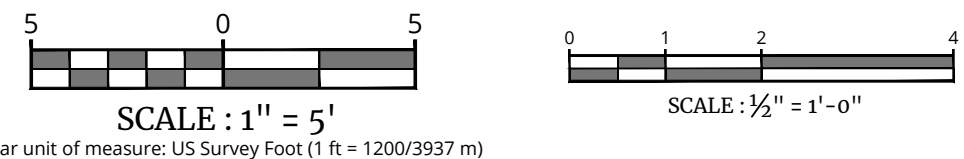
1. PROPOSED EXHAUST FAN AND CEILING LIGHTS TO BE EXPLOSION PROOF AND SUITABLE FOR CLASS 1, DIVISION 1, GROUP D HAZARDOUS ATMOSPHERE.
2. INTERIOR WALL SHALL BE EPOXY COATED AS NOTED. COATING SHALL CONSIST OF A FIRST COAT OF TNEMEC SERIES 1 OMNITHANE, 2.5-3.5 MILS THICK, AND COATS 2 AND 3 OF TNEMEC SEIRES N69 HI-BUILD EPOXOLINE II, 4.0-6.0 MILS THICK. COATINGS SHALL BE AS SPECIFIED AND MANUFACTURED BY TNEMEC, OR APPROVED EQUAL.



TRICKLING FILTER ACCESS PLATFORM SECTION
SCALE: 1"=5'



DETAIL 'A'
SCALE: 1/2"=1'



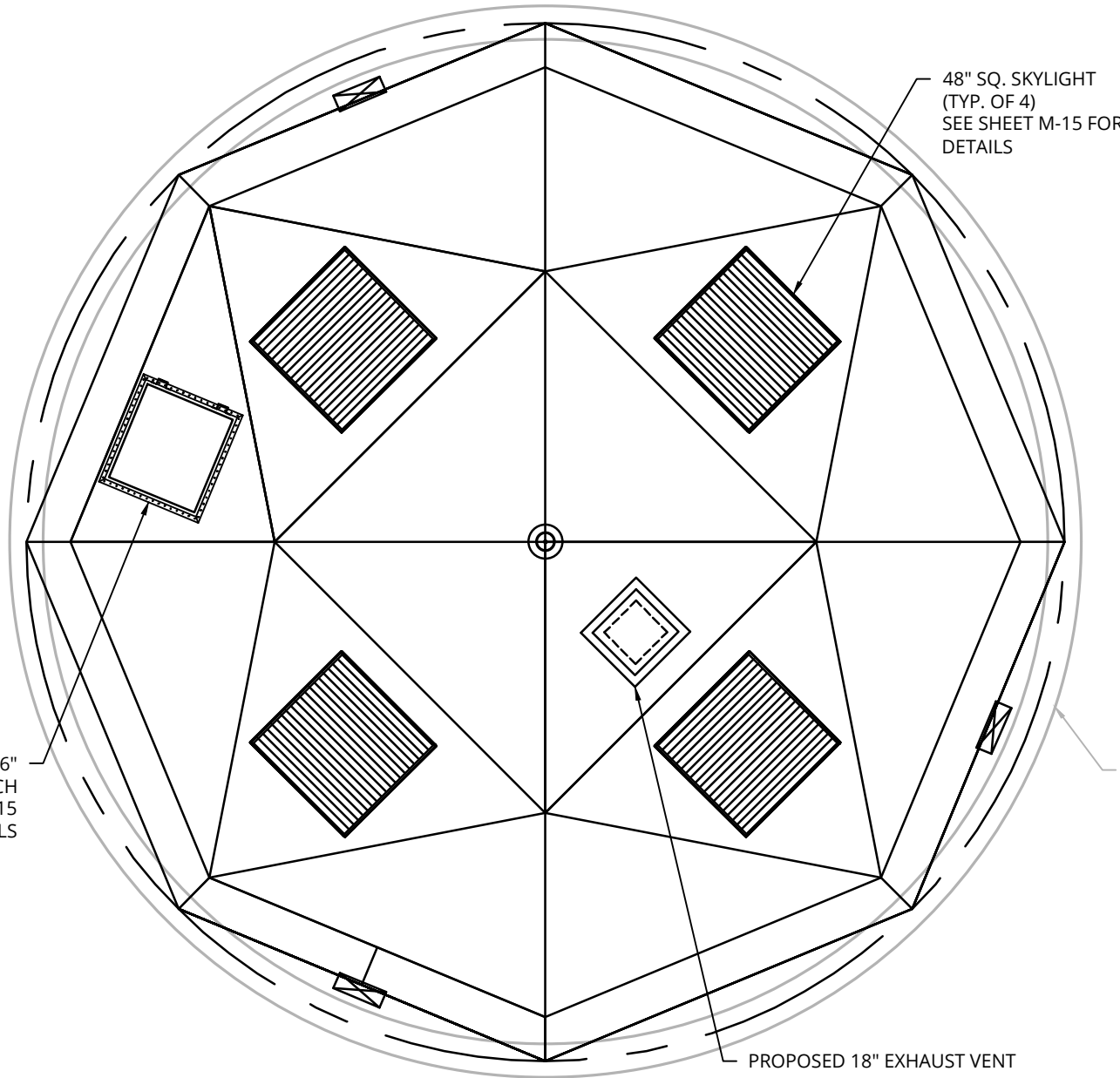
ALTERED ON:	AFFIXED ON: 4/10/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:

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DATE	DESCRIPTION	BY	SYM.

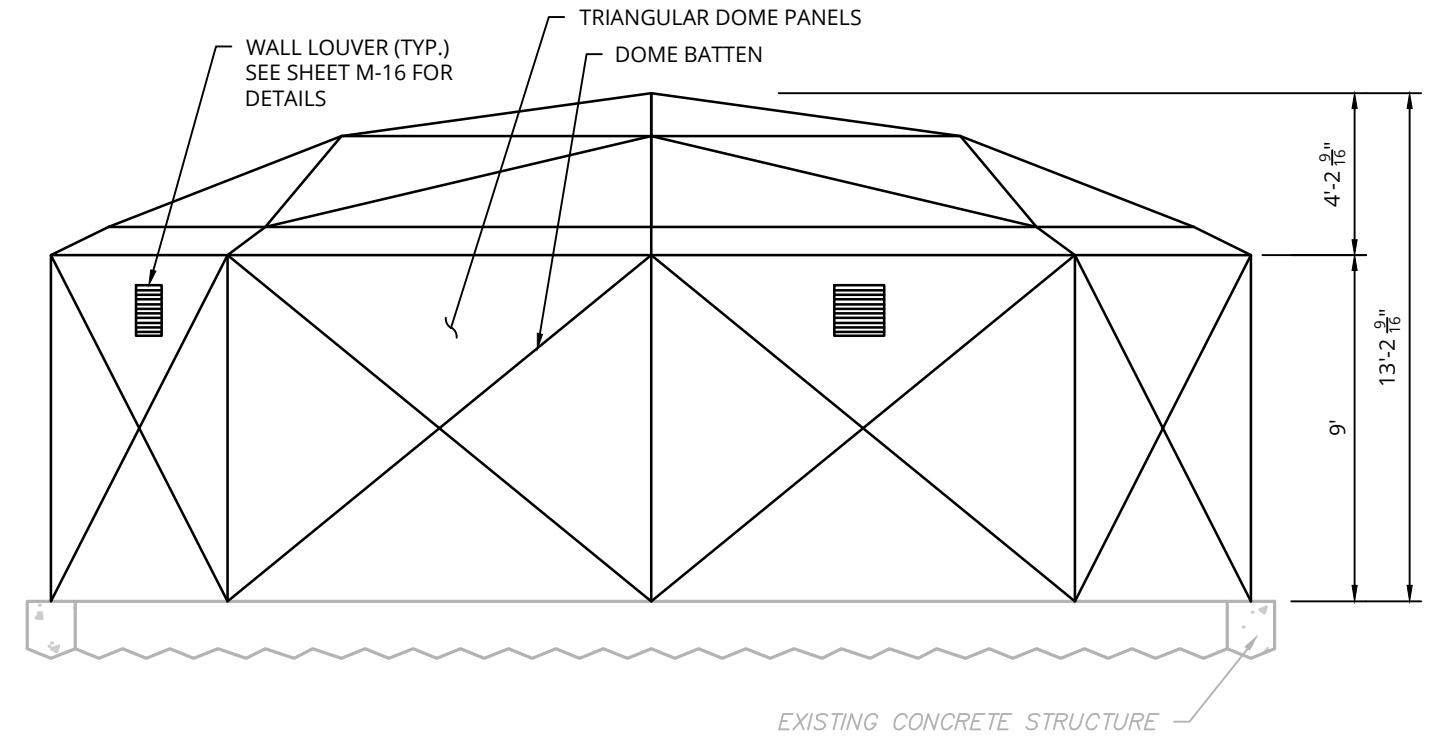


TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING TRICKLING FILTER PROPOSED SECTIONS AND DETAILS	DRAWING NUMBER: M-12



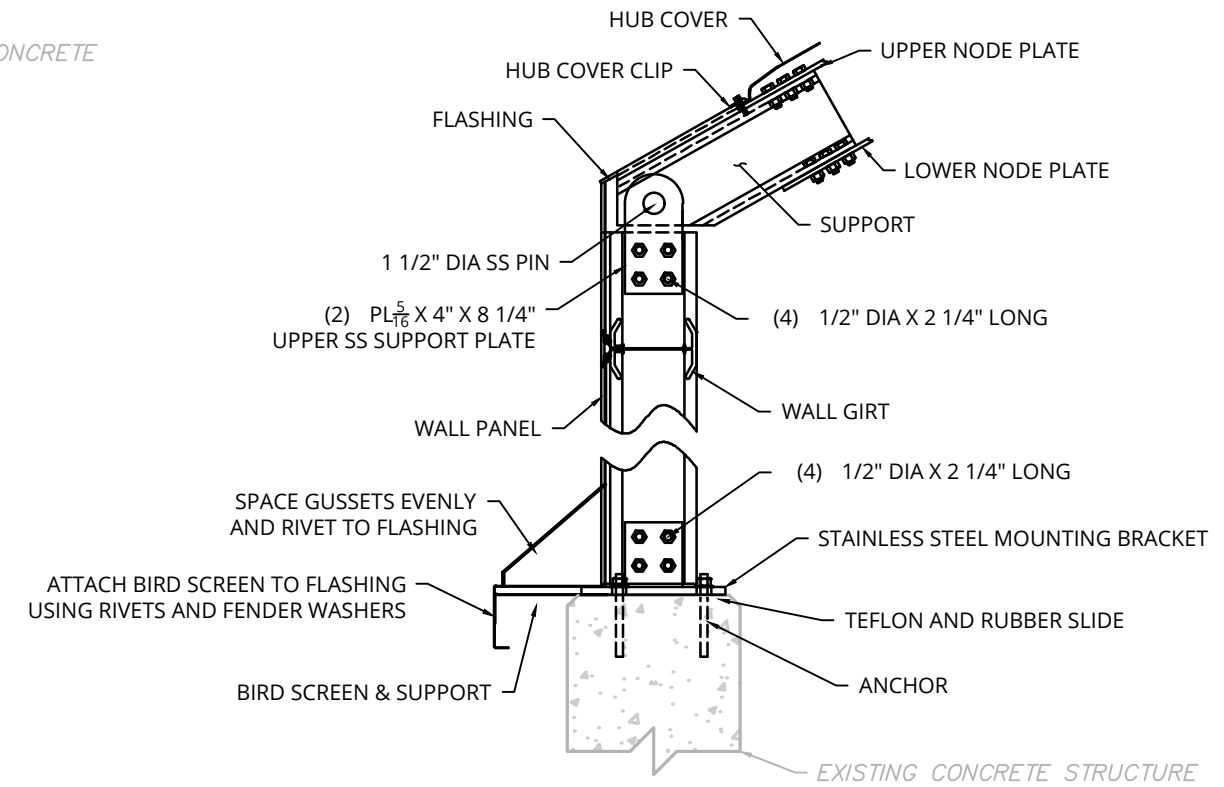
TRICKLING FILTER PROPOSED DOME PLAN

SCALE: 1"=5'



TRICKLING FILTER PROPOSED DOME SECTION

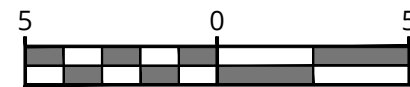
SCALE: 1"=5'



DOME WALL & CONNECTION TO EXISTING CONCRETE WALL DETAIL

NOT TO SCALE

ALTERED ON:	AFFIXED ON: 4/10/2026
SIGNATURE STAMP:	SIGNATURE STAMP:



SCALE : 1" = 5'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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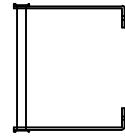
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



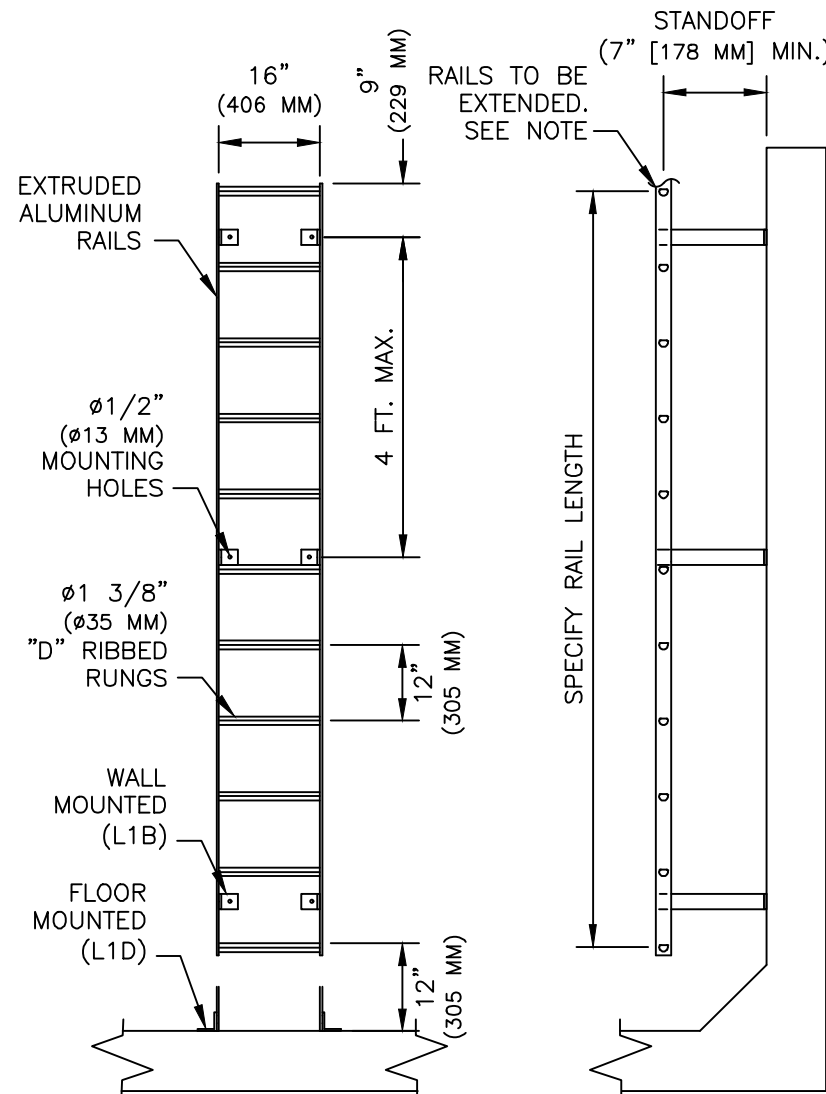
TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING TRICKLING FILTER PROPOSED PLAN, SECTIONS, AND DETAILS	DRAWING NUMBER: M-13

NOTES

- ALL ALUMINUM WELDED CONSTRUCTION
- 1 3/8 DIA. TYPE "D" RUNG WITH SLIP RESISTANT RIBBED RUNG
- ACCESS LADDER AND SUPPORTS SHALL BE ALUMINUM ALLOY 6061-T6 OR 6063-T6.
- LADDER SHALL BE REQUIRED LENGTH TO REACH THE FILTER MEDIA.
- LADDER TO HAVE EXTENDED HANDRAIL 2' ABOVE TOP OF CONCRETE WALL

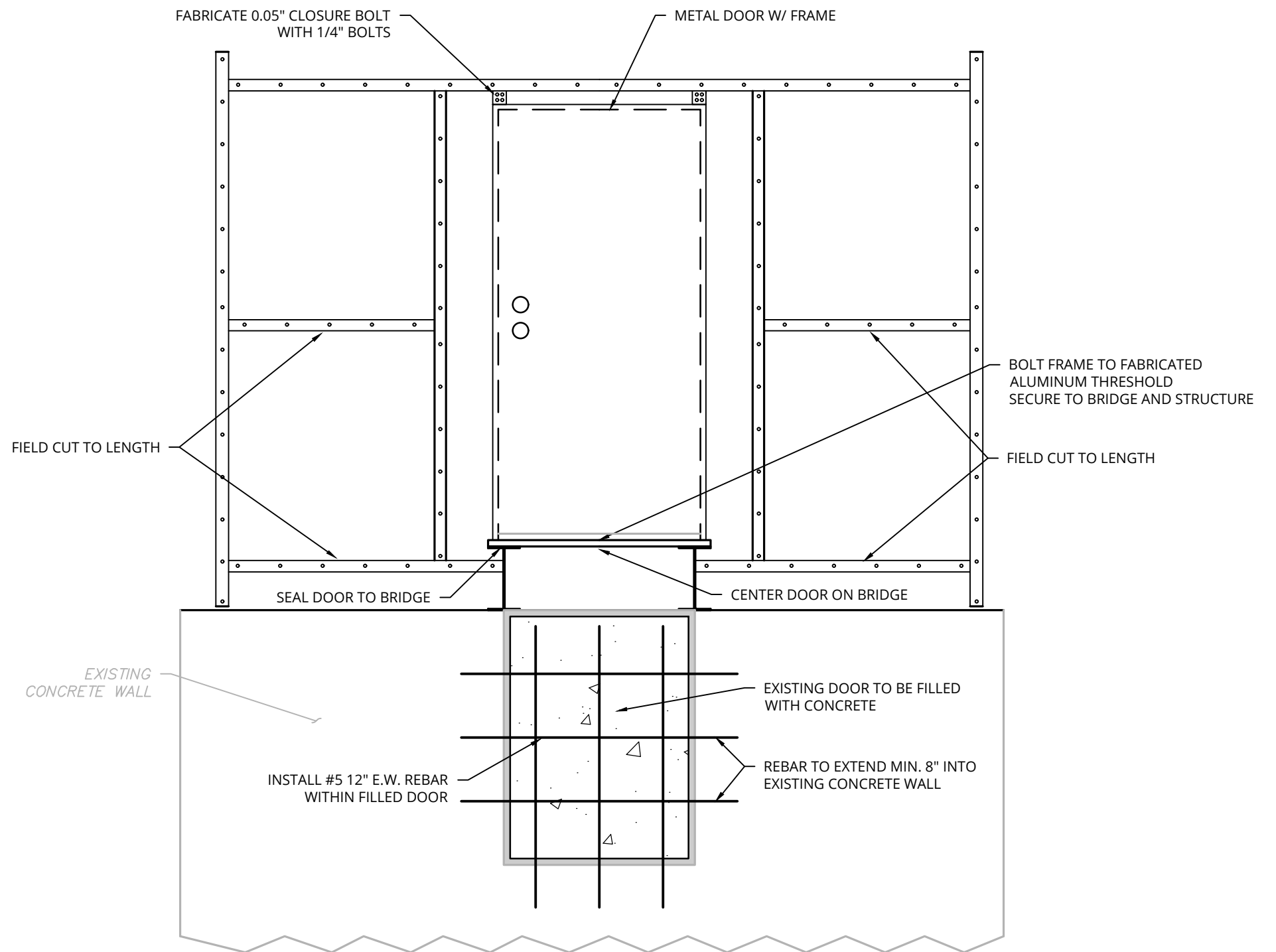


FLAT WALL MOUNTING



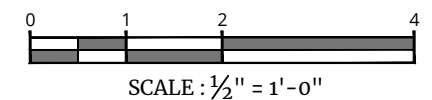
ALUMINUM ACCESS LADDER DETAIL

NOT TO SCALE



TRICKLING FILTER DOME DOOR SECTION

SCALE: 1/2" = 1"



ALTERED ON: _____ AFFIXED ON: 4/10/2026

SIGNATURE: _____
STAMP: _____

SIGNATURE: _____
STAMP: _____



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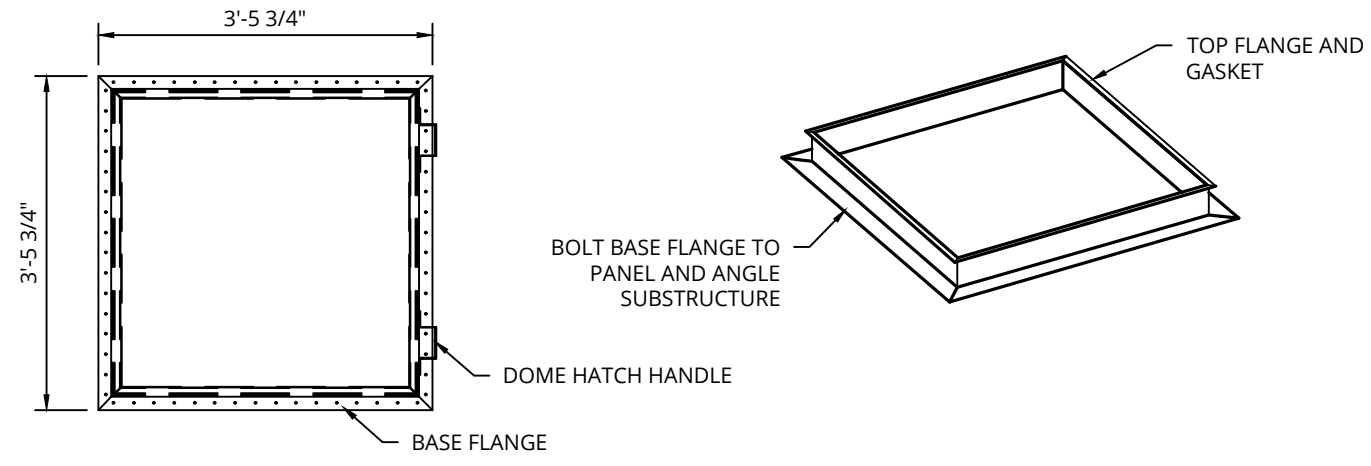
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DATE	DESCRIPTION	BY	SYM.



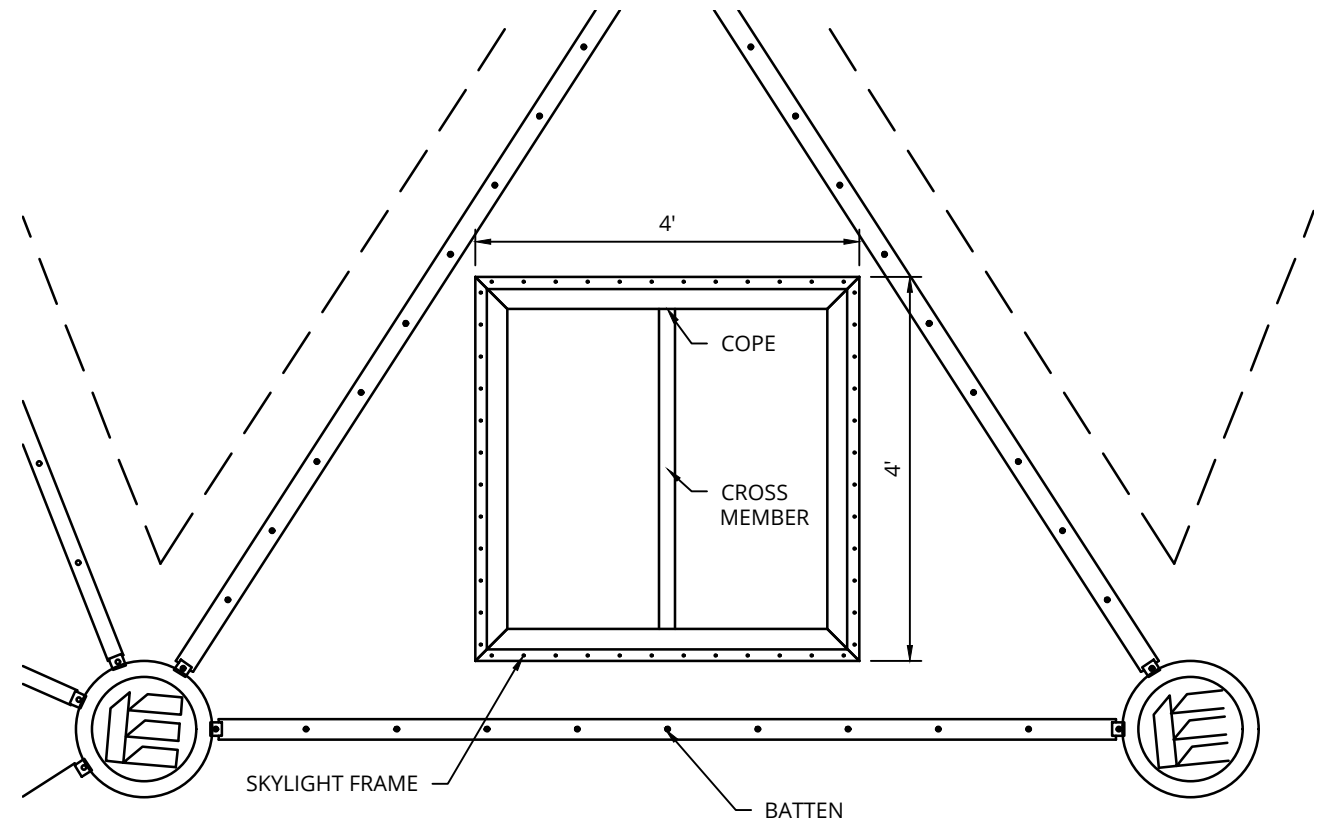
TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING TRICKLING FILTER PROPOSED DETAILS	DRAWING NUMBER: M-14

PW: /
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SMB
 DESIGN SUPERVISOR: JBA

PW:/
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
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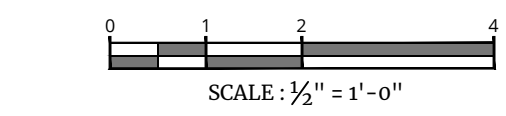


TRICKLING FILTER DOME ACCESS HATCH DETAIL
 SCALE: 1/2"=1"



TRICKLING FILTER DOME TYPICAL SKYLIGHT DETAIL
 SCALE: 1/2"=1"

ALTERED ON:	AFFIXED ON: 4/10/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:



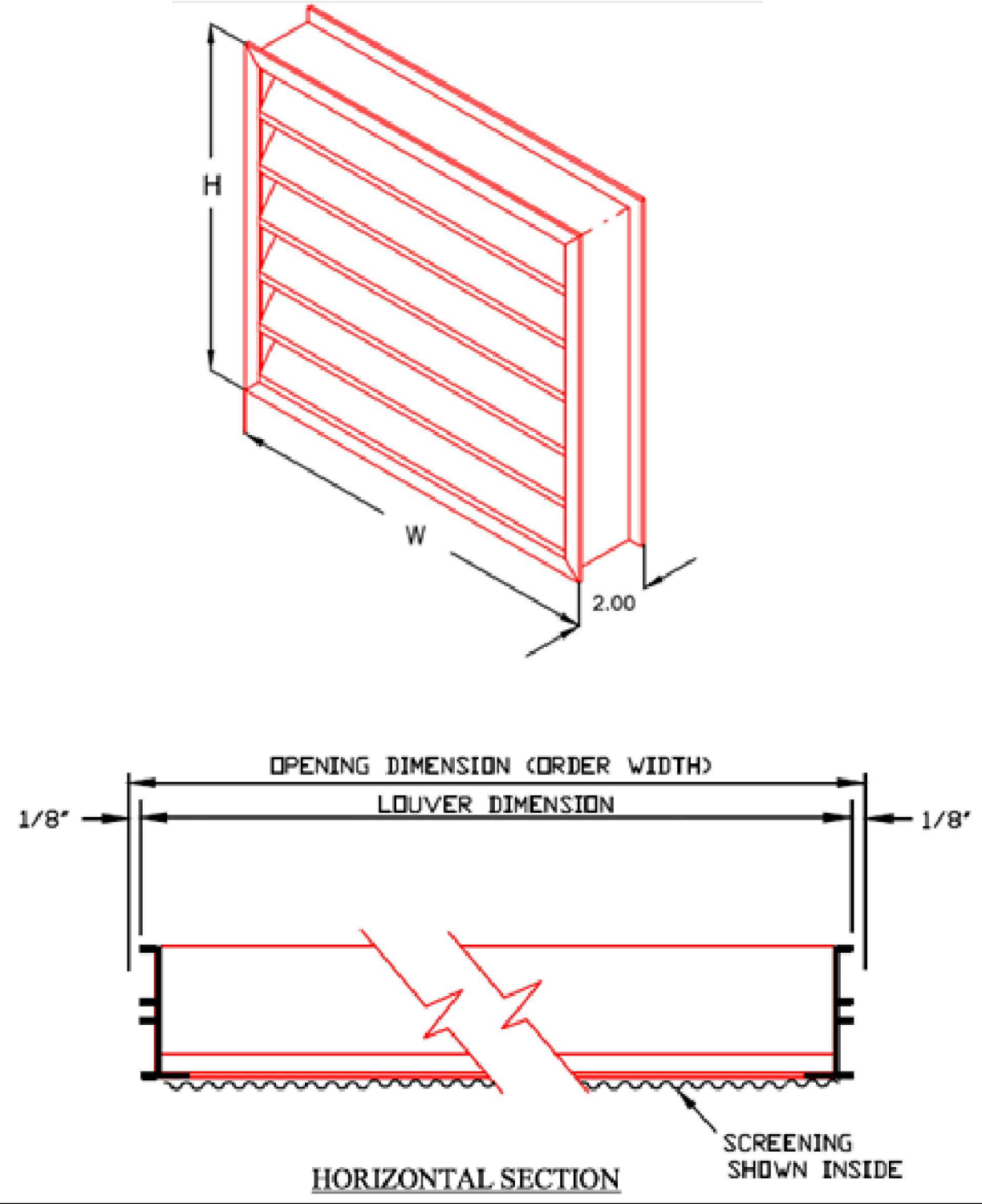
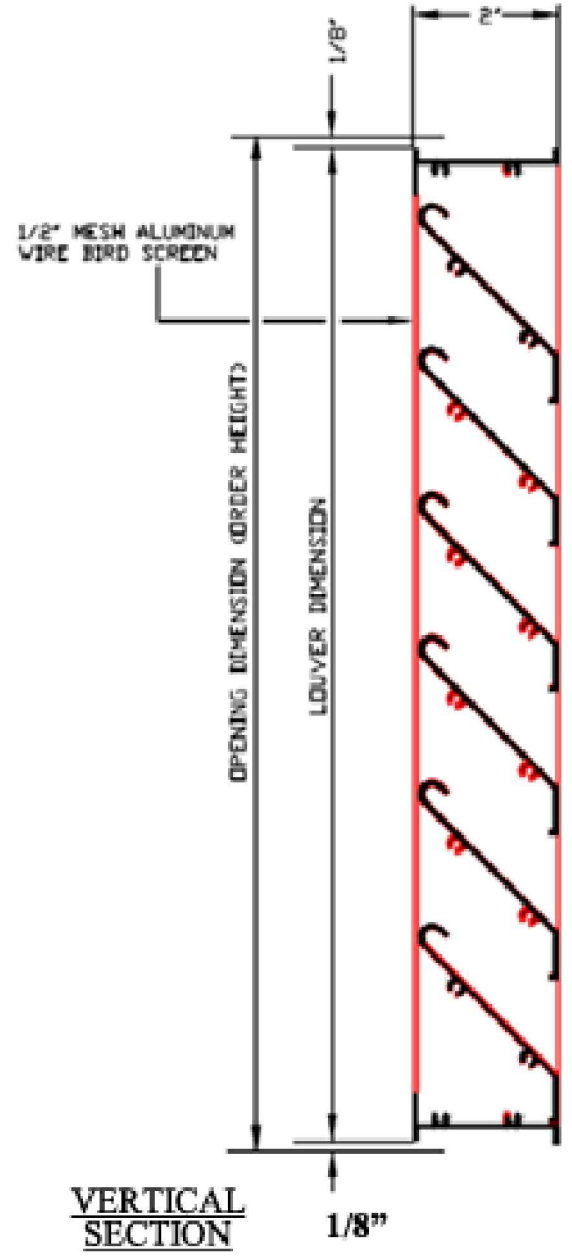
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TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
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TITLE OF DRAWING TRICKLING FILTER PROPOSED DETAILS	DRAWING NUMBER: M-15

PW:/
 CHECKED BY: JBA / RAP
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 CHECKED BY: JBA / RAP
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TRICKLING FILTER DOME LOUVER DETAIL

NOT TO SCALE

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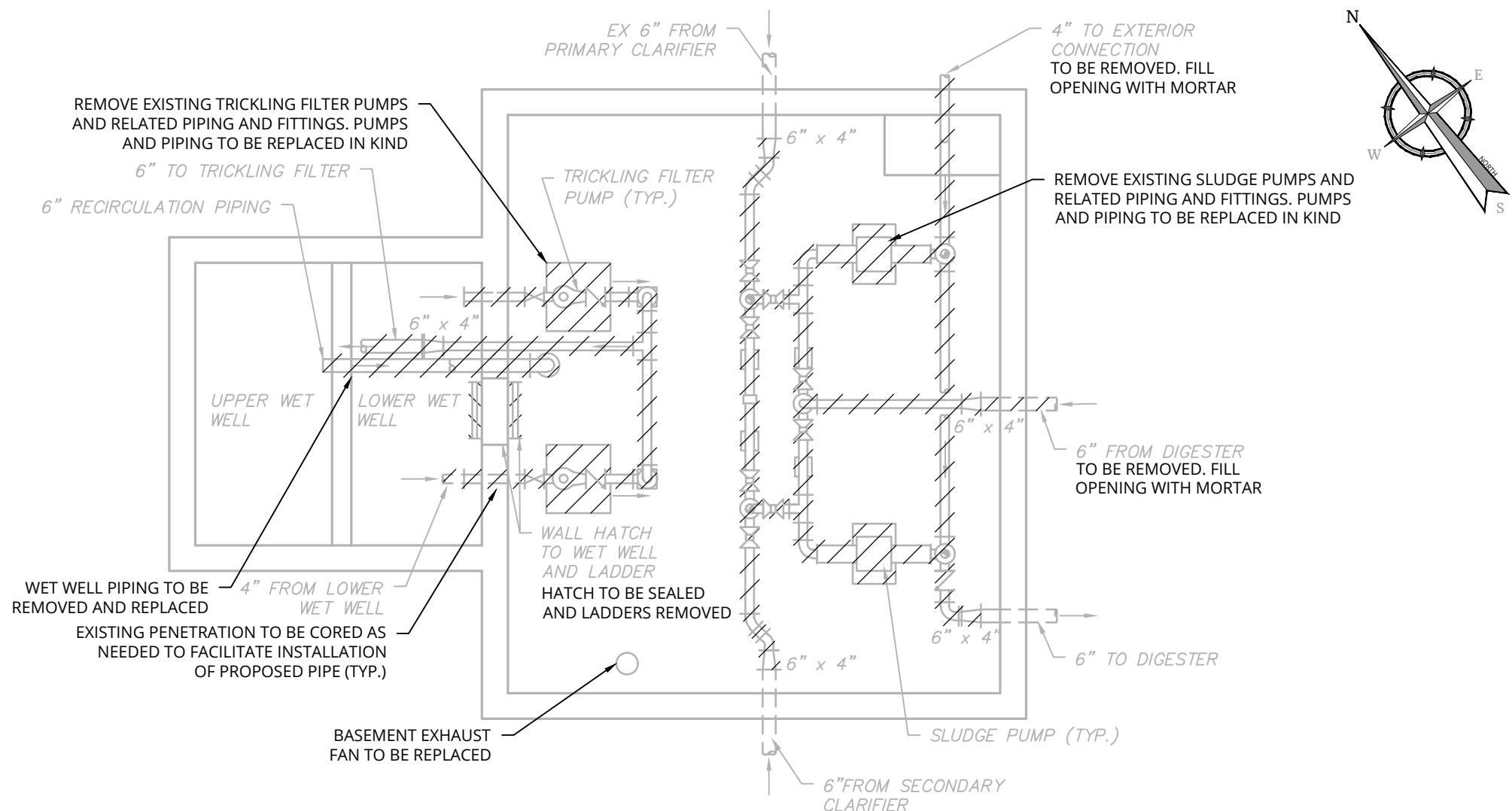
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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DATE	DESCRIPTION	BY	SYM.



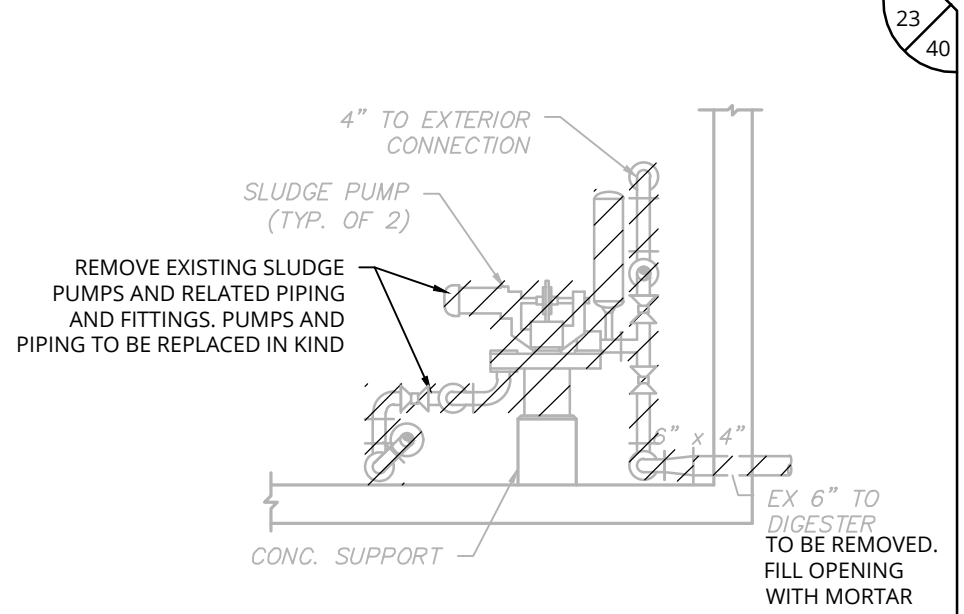
TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING TRICKLING FILTER PROPOSED DETAILS	DRAWING NUMBER: M-16

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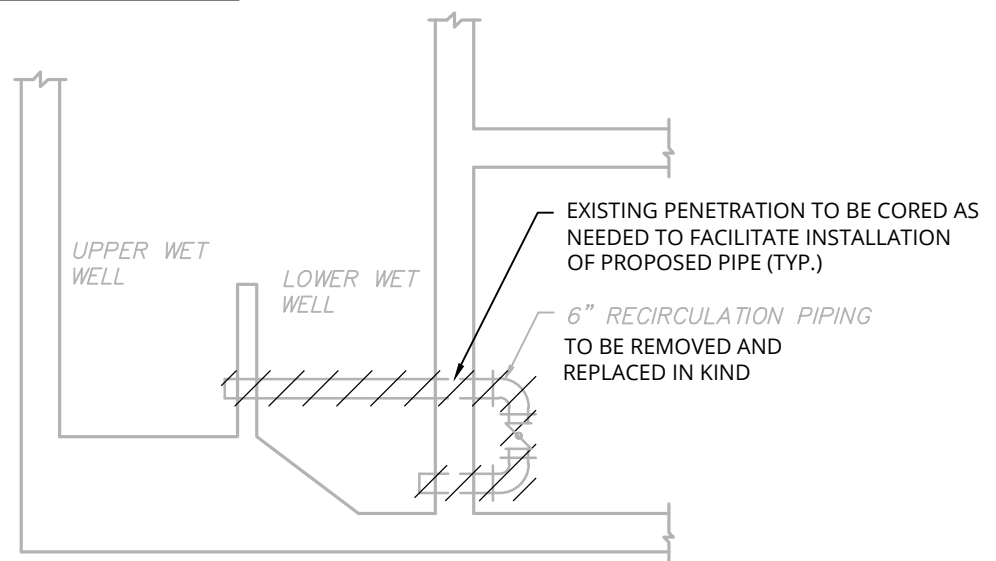
PUMP ROOM DEMOLITION PLAN

SCALE: 1"=5'



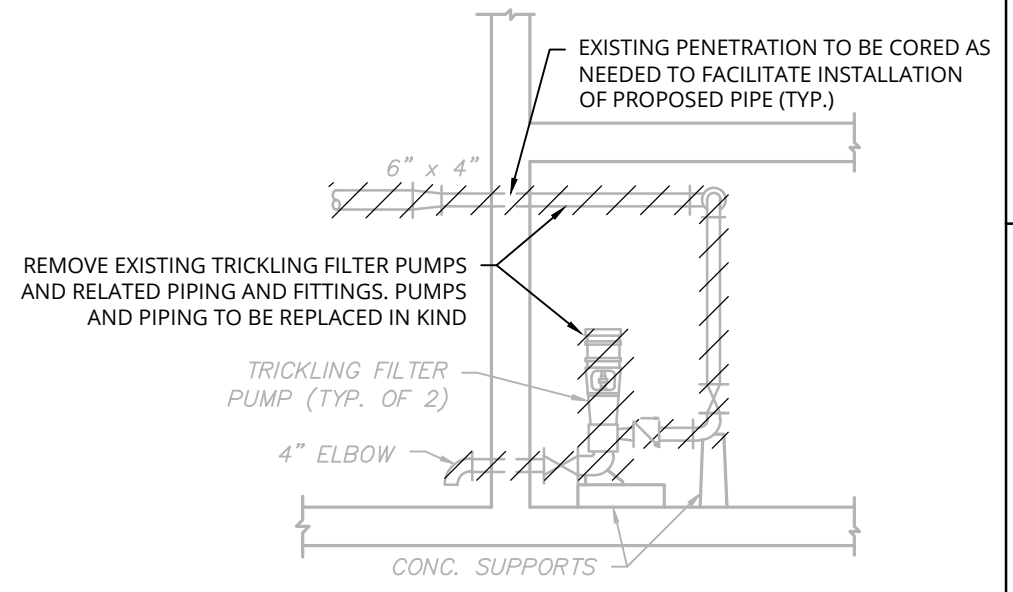
SLUDGE PUMP SECTION DEMOLITION PLAN

SCALE: 1"=5'



SLUDGE PUMP SECTION DEMOLITION PLAN

SCALE: 1"=5'



TRICKLING FILTER PUMP SECTION DEMOLITION PLAN

SCALE: 1"=5'



SCALE: 1" = 5'
 Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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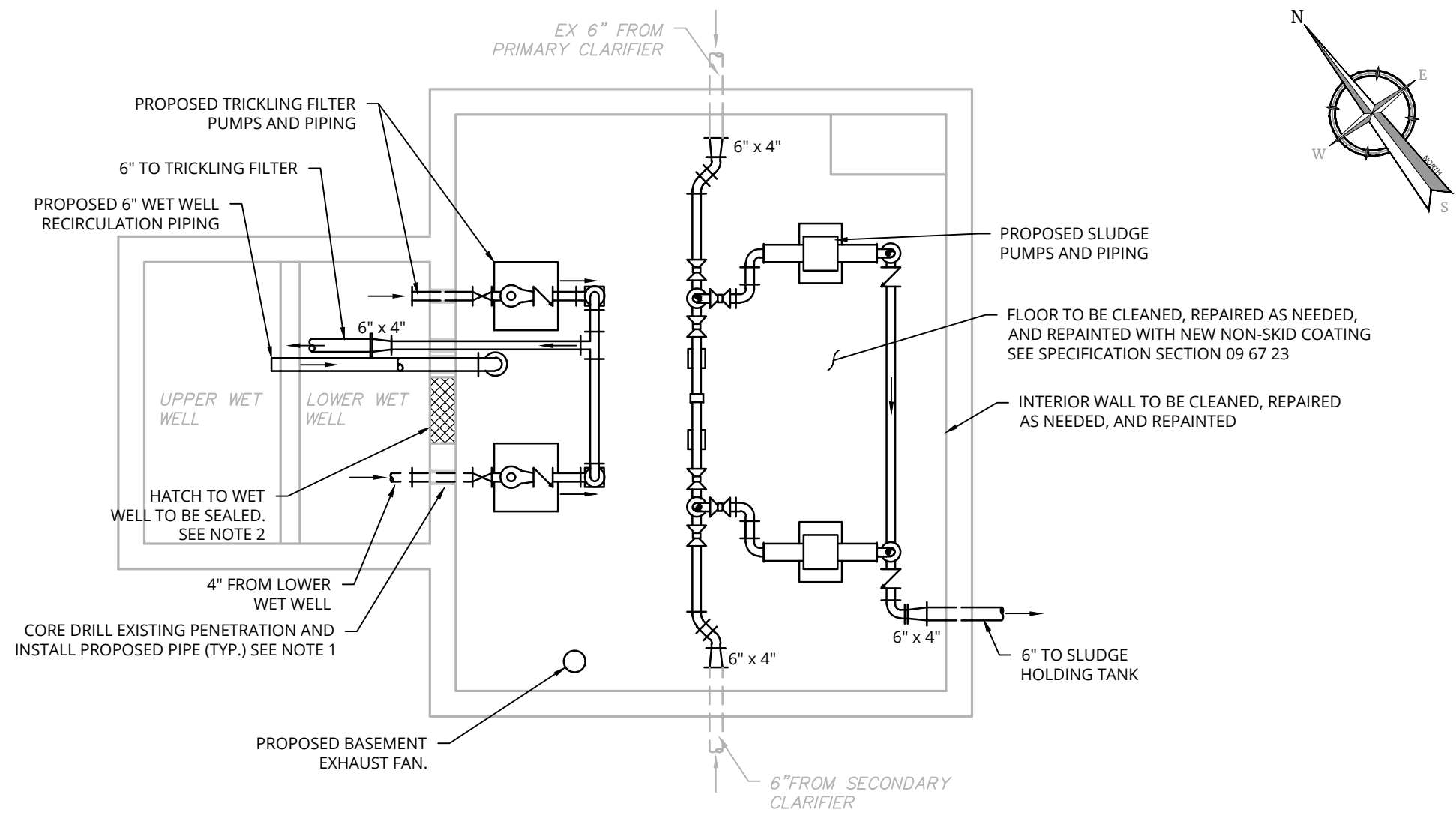
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



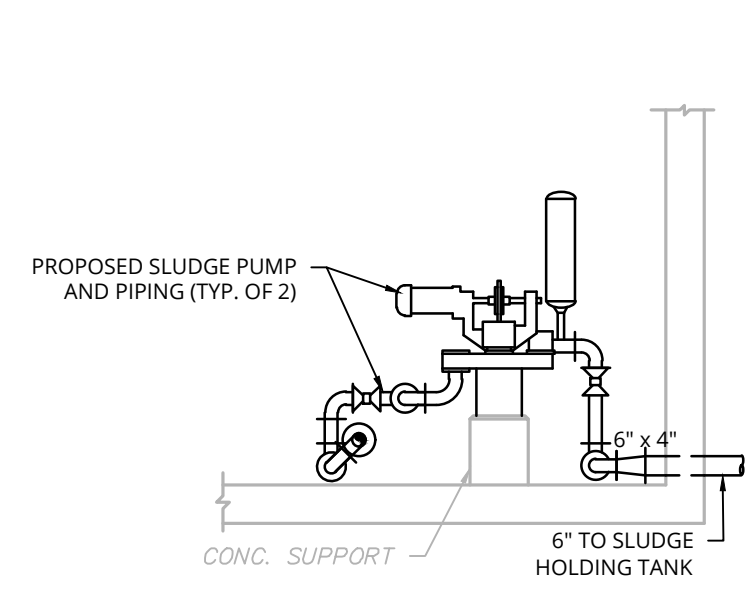
TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING PUMP ROOM DEMOLITION PLAN AND SECTIONS	DRAWING NUMBER: M-17

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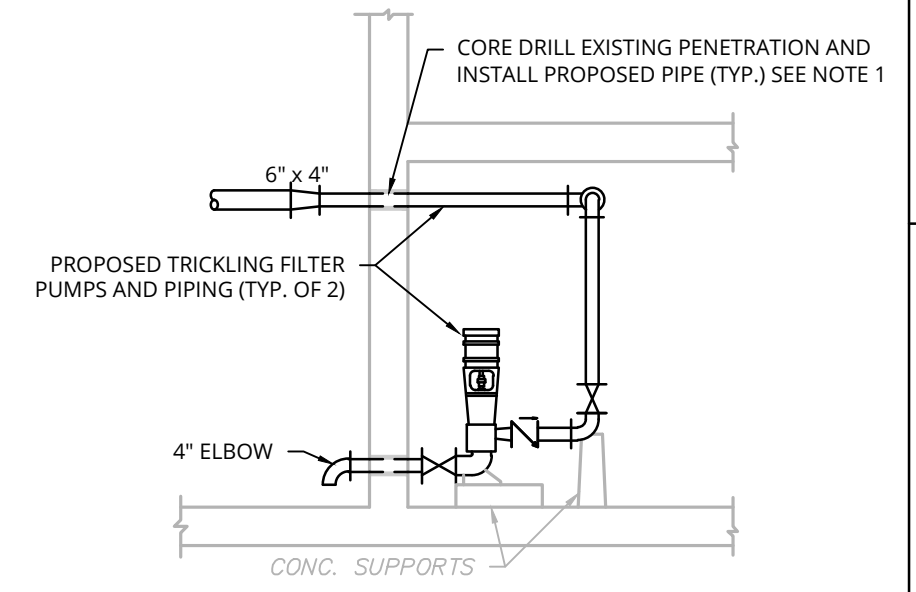
PUMP ROOM PROPOSED PLAN

SCALE: 1"=5'



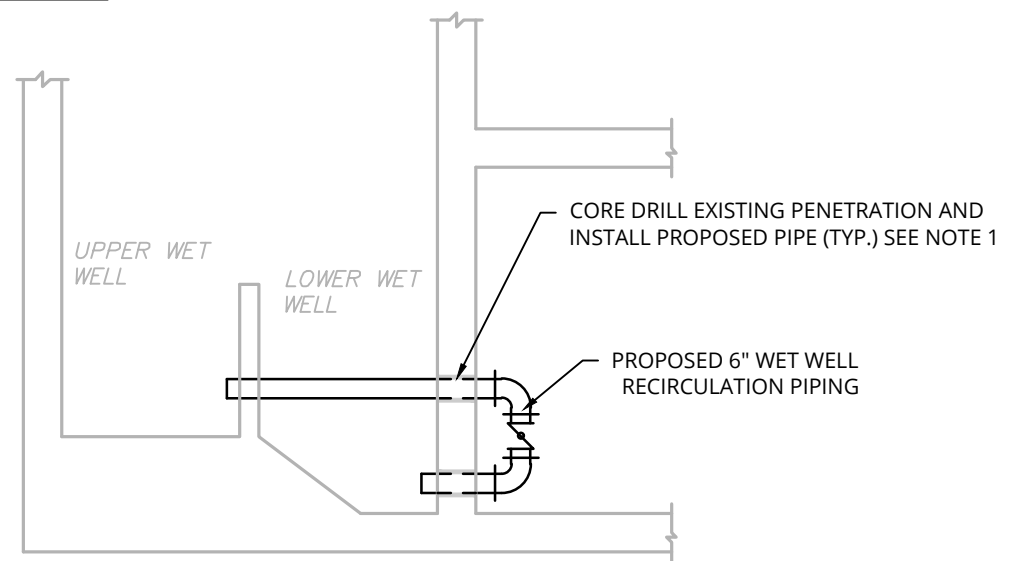
SLUDGE PUMP SECTION PROPOSED PLAN

SCALE: 1"=5'



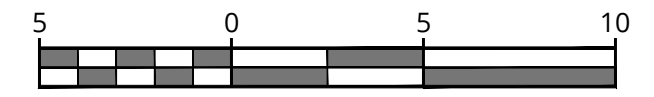
TRICKLING FILTER PUMP SECTION PROPOSED PLAN

SCALE: 1"=5'



SLUDGE PUMP SECTION PROPOSED PLAN

SCALE: 1"=5'



SCALE : 1" = 5'
Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

NOTES:

- EXISTING STRUCTURES SHALL BE CORED DRILLED AND NEW PIPES TO BE INSTALLED WITH MECHANICAL LINK SEAL. REFER TO "EXISTING MANHOLE / STRUCTURE PENETRATION" DETAIL ON SHEET SD-1.
- WET WELL ACCESS HATCH TO BE FILLED WITH CONCRETE AND SEALED WITH SIKA SWELLSTOP OR APPROVED EQUAL. LEVEL CONTROL FLOATS ADJACENT TO HATCH SHALL BE RELOCATED AND MADE ACCESSIBLE FROM EXTERIOR ACCESS DOOR.
- ALL PIPE TO BE INSTALLED WITH LESS THAN 5-FEET OF COVER TO BE HEAT TRACED AND INSULATED. REFER TO SHEET SD-4 FOR DETAILS.

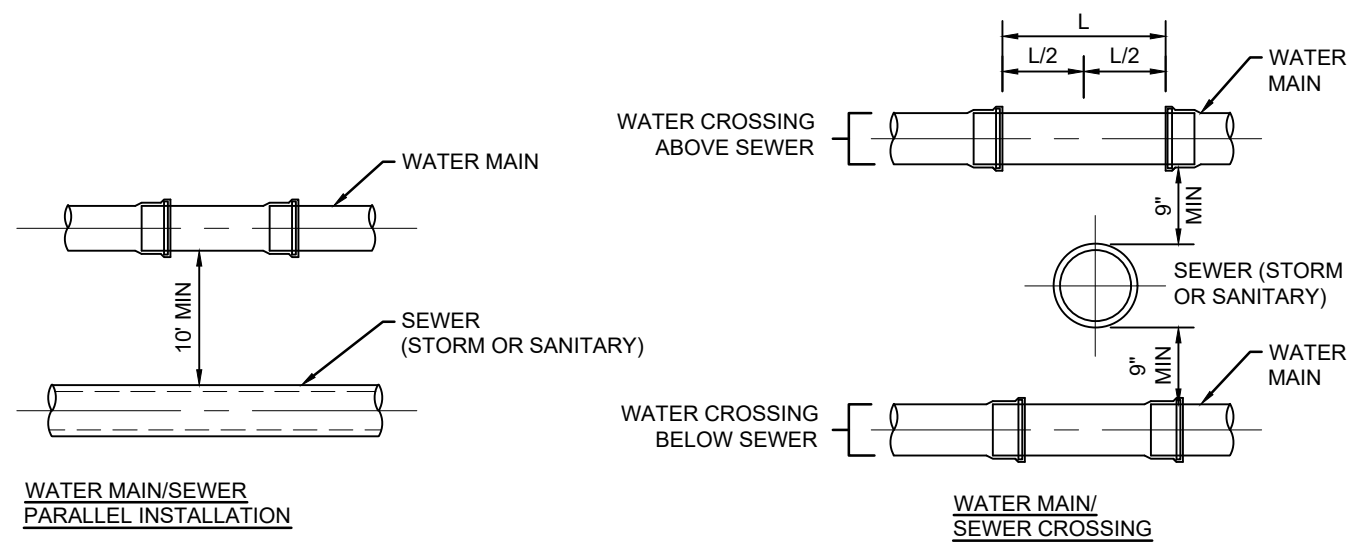
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING PUMP ROOM PROPOSED PLAN AND SECTIONS	DRAWING NUMBER: M-18



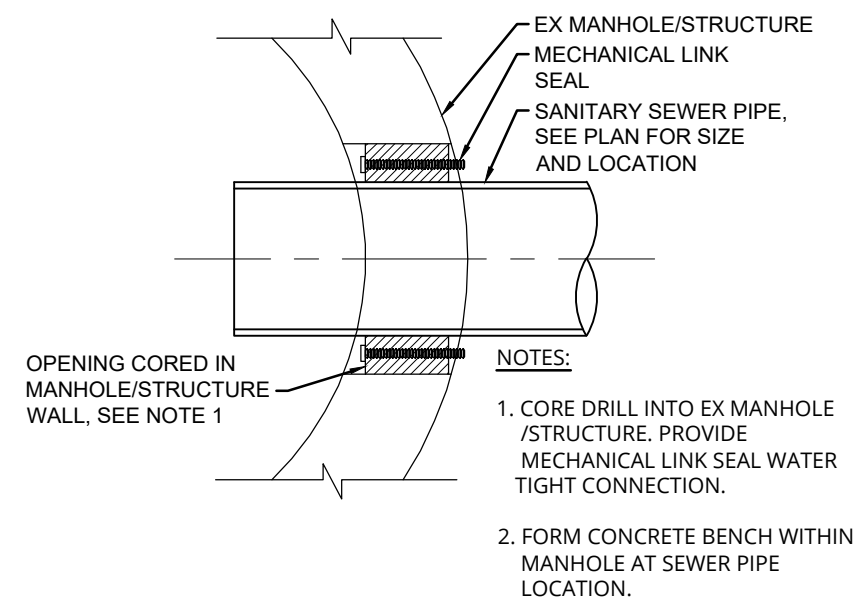
WATER MAIN/SEWER PARALLEL INSTALLATION

WATER MAIN/SEWER CROSSING

NOTES:

1. INSTALL WATER MAINS PARALLEL TO STORM AND/OR SANITARY SEWER. PIPES SHALL HAVE A MINIMUM OF 10-FEET HORIZONTAL SEPARATION (MEASURED EDGE OF PIPE TO EDGE OF PIPE).
2. WHEN 10-FEET HORIZONTAL SEPARATION CANNOT BE MAINTAINED, ENCASE THE WATER MAIN WITH FLOW ABLE FILL FOR 10-FEET ON BOTH SIDES OF THE CROSSING.

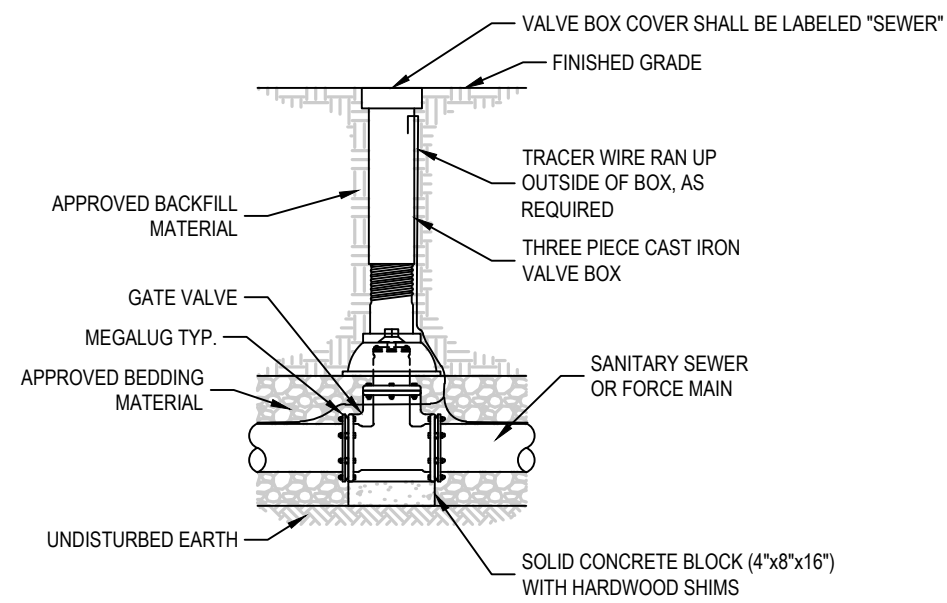
WATER / SEWER CROSSING
SCALE: NONE



NOTES:

1. CORE DRILL INTO EX MANHOLE /STRUCTURE. PROVIDE MECHANICAL LINK SEAL WATER TIGHT CONNECTION.
2. FORM CONCRETE BENCH WITHIN MANHOLE AT SEWER PIPE LOCATION.

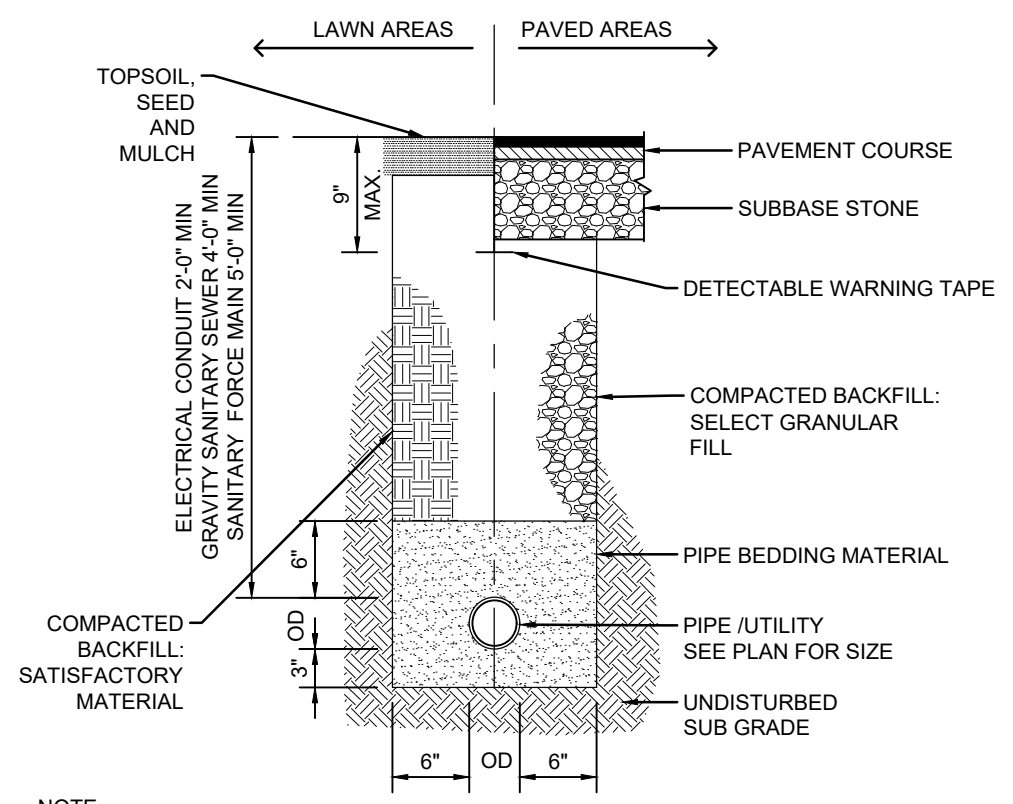
EXISTING MANHOLE / STRUCTURE PENETRATION
SCALE: NONE



NOTES:

1. VALVE SHALL NOT SUPPORT VALVE BOX.
2. GATE VALVE SHALL BE INSTALLED LEVEL AND VERTICALLY PLUMB.
3. VALVE BOX SHALL BE PLUMB TO GRADE, WITH OPERATING NUT CENTERED IN BOX.

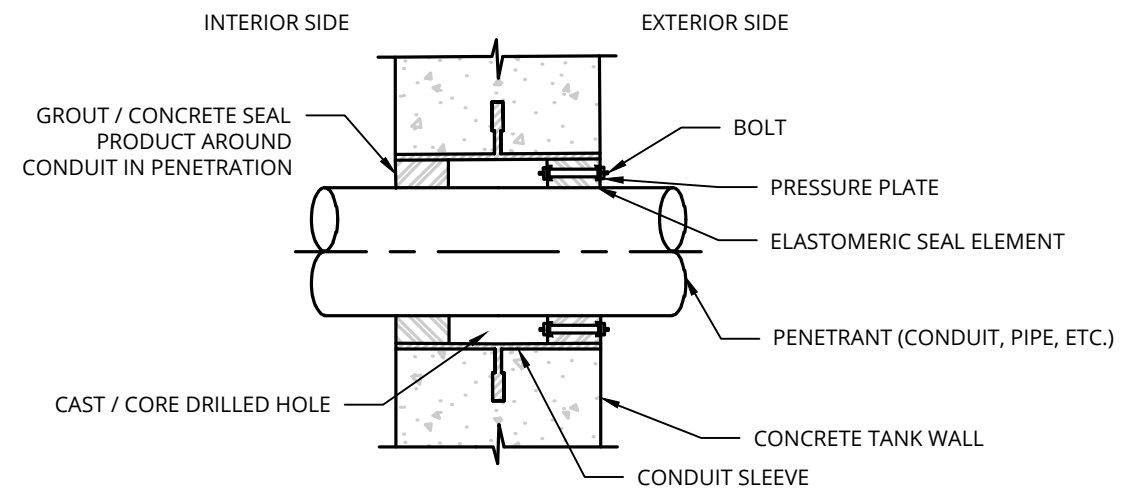
GATE VALVE ASSEMBLY DETAIL
SCALE: NONE



NOTE:

1. UTILIZE TRENCH BOXES, SHEETING AND/OR SHIELDS FOR EXCAVATIONS IN ACCORDANCE WITH OSHA TRENCHING AND EXCAVATION REQUIREMENTS.

TRADITIONAL UTILITY TRENCH
SCALE: NONE



WALL PENETRATION CONDUIT SEAL DETAIL
SCALE: NONE

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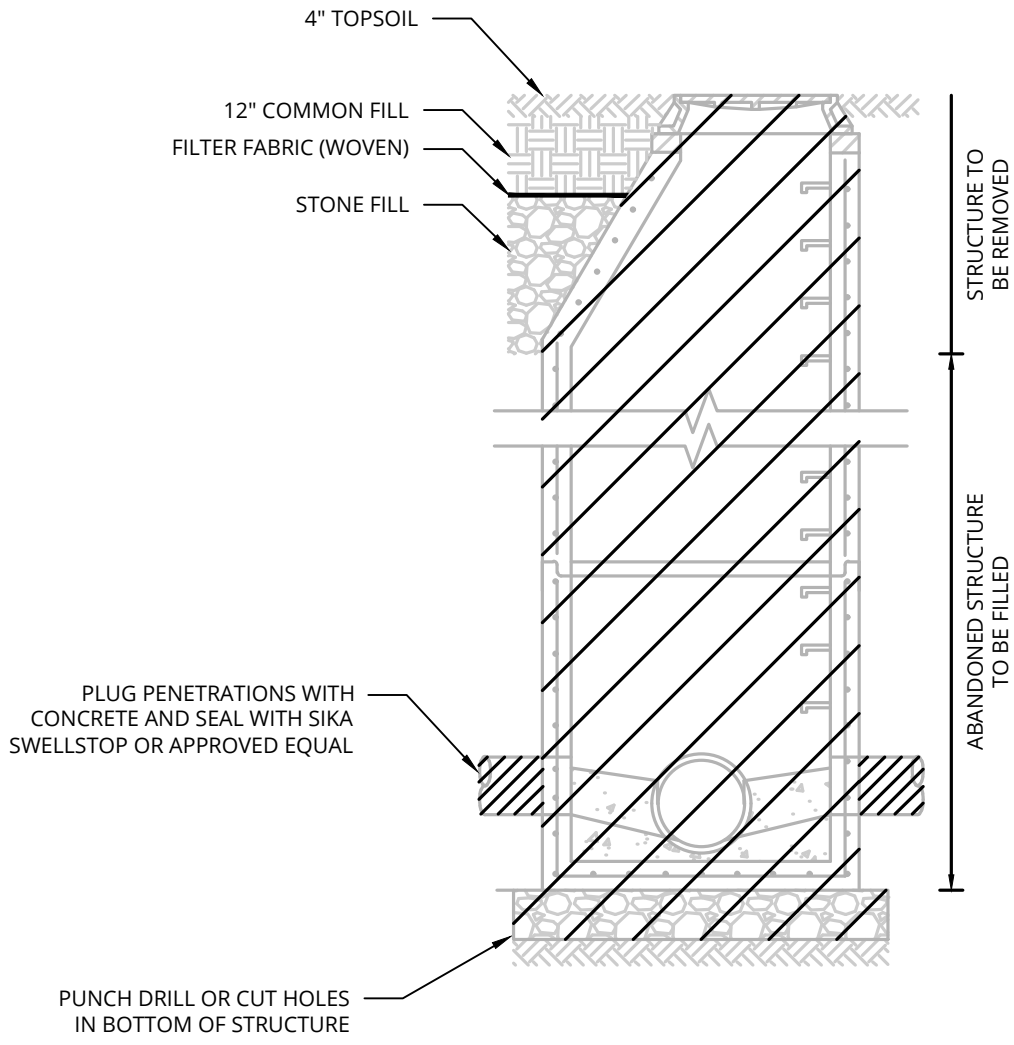
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT: REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT: MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING: SITE DETAILS	DRAWING NUMBER: SD-1

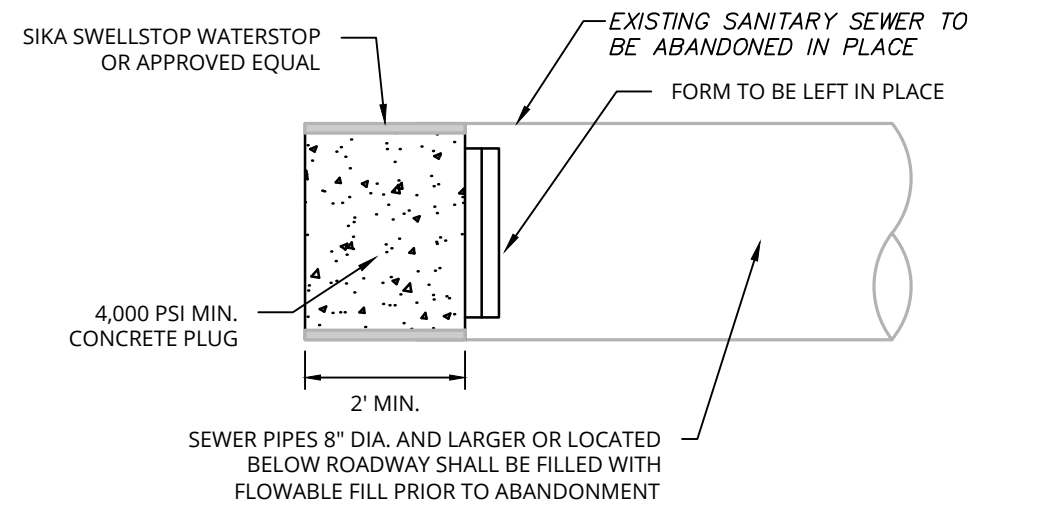
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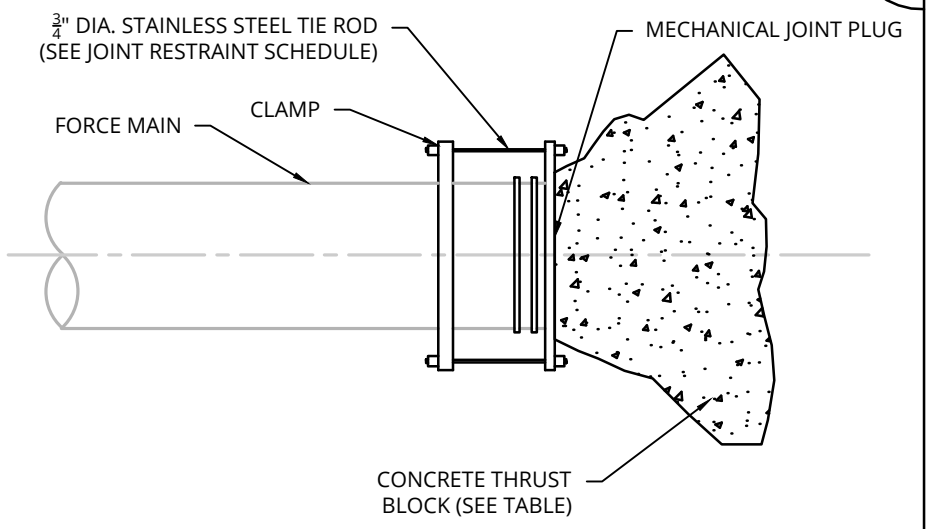
NOTES:

- STRUCTURE SHALL BE REMOVED TO 3' BELOW FINAL GRADE.
- A MINIMUM OF TWO 4" DIAMETER HOLES SHALL BE CORED THROUGH THE BOTTOM SLAB OF STRUCTURE UNLESS NOTED OTHERWISE.
- PIPES SHALL BE PLUGGED PER CONCRETE PLUG DETAIL.
- ABANDONED STRUCTURE SHALL BE FILLED WITH CLEAN STONE TOPPED BY 1-FOOT OF COMMON FILL AND 4-INCHES OF TOPSOIL.

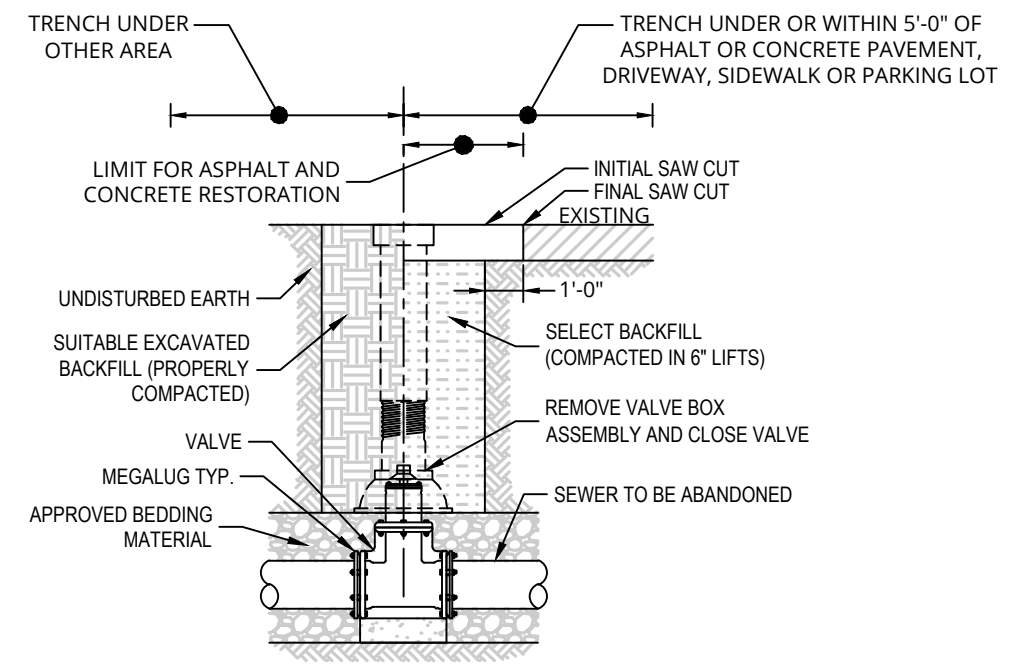
TYPICAL STRUCTURE ABANDONMENT
SCALE: NONE



GRAVITY PIPE CONCRETE PLUG DETAIL
SCALE: NONE



FORCE MAIN END CAP DETAIL
SCALE: NONE



GATE VALVE ABANDONMENT DETAIL
SCALE: NONE

PIPE LENGTH IN FEET TO BE RESTRAINED			
PIPE SIZE IN INCHES	90° BEND, TEE OR DEAD END PLUG	45° BEND	22 1/2° BEND
	L*	L*	L*
6	51'	19'	10'
8	62'	24'	12'
12	85'	32'	16'
16	105'	40'	21'
18	115'	44'	23'
20	124'	48'	24'

L* = LENGTH OF PIPE TO BE RESTRAINED IS FOR EACH SIDE OF BEND

NOTES:

- USE OF MECHANICAL JOINT RETAINER GLANDS SHALL PROVIDE A THRUST RESTRAINT SYSTEM EQUIVALENT TO THE LENGTH LISTED IN THE TABLE.
- LENGTHS ARE BASED ON THE FOLLOWING CRITERIA: 150 PSI MAXIMUM PRESSURE AND 3'-6" OF COVER. TABLE IS FOR USE WITH DUCTILE IRON PIPE ONLY. IF TEST CONDITIONS ARE MORE SEVERE OR LARGER PIPES ARE PROPOSED, THEN SPECIAL COMPUTATIONS MUST BE PROVIDED BY LICENSED PROFESSIONAL ENGINEER.

JOINT RESTRAINT SCHEDULE DETAIL
SCALE: NONE

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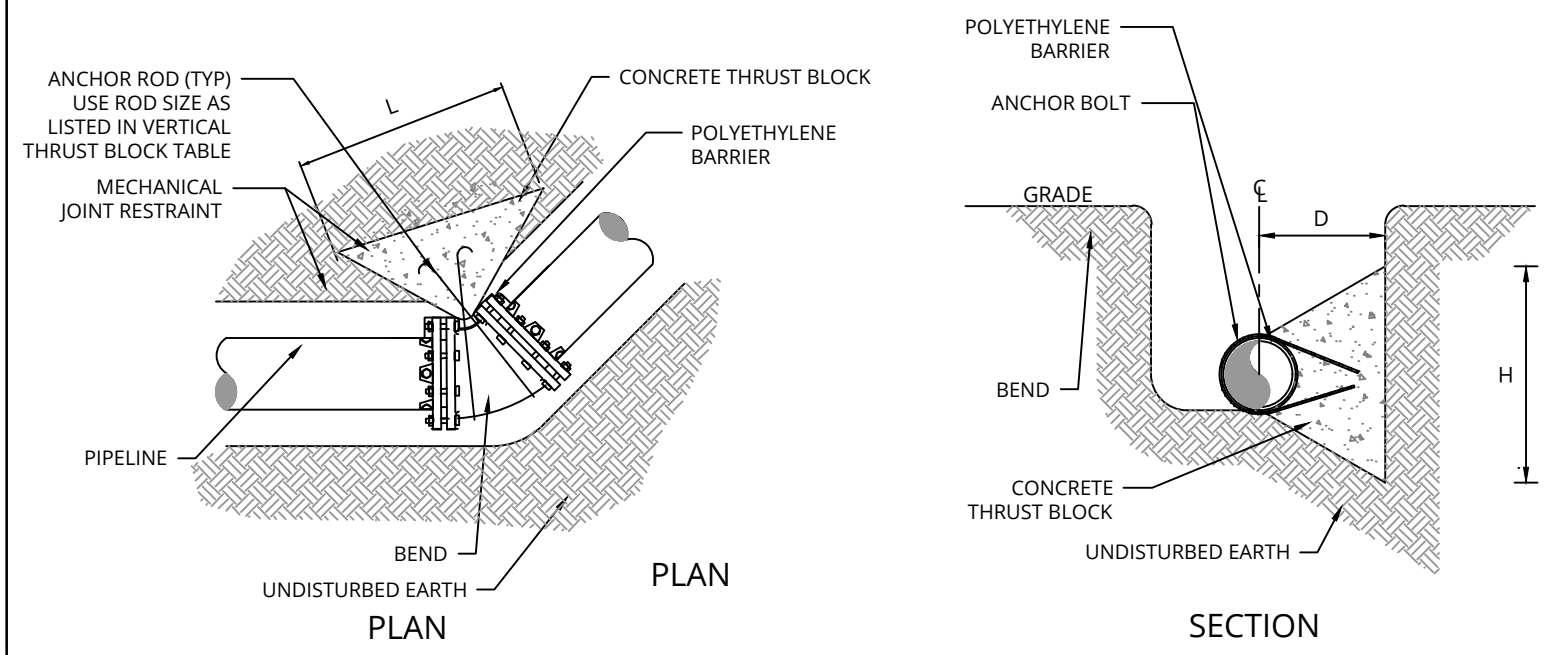
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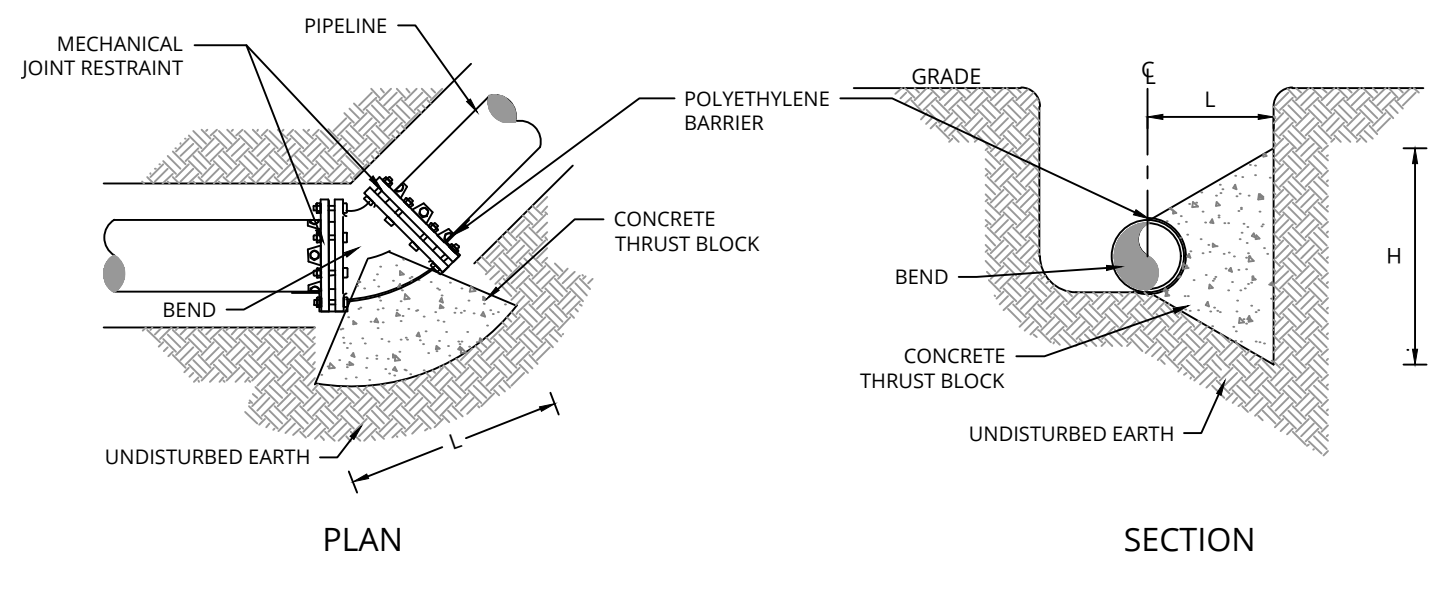


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LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING SITE DETAILS	DRAWING NUMBER: SD-2

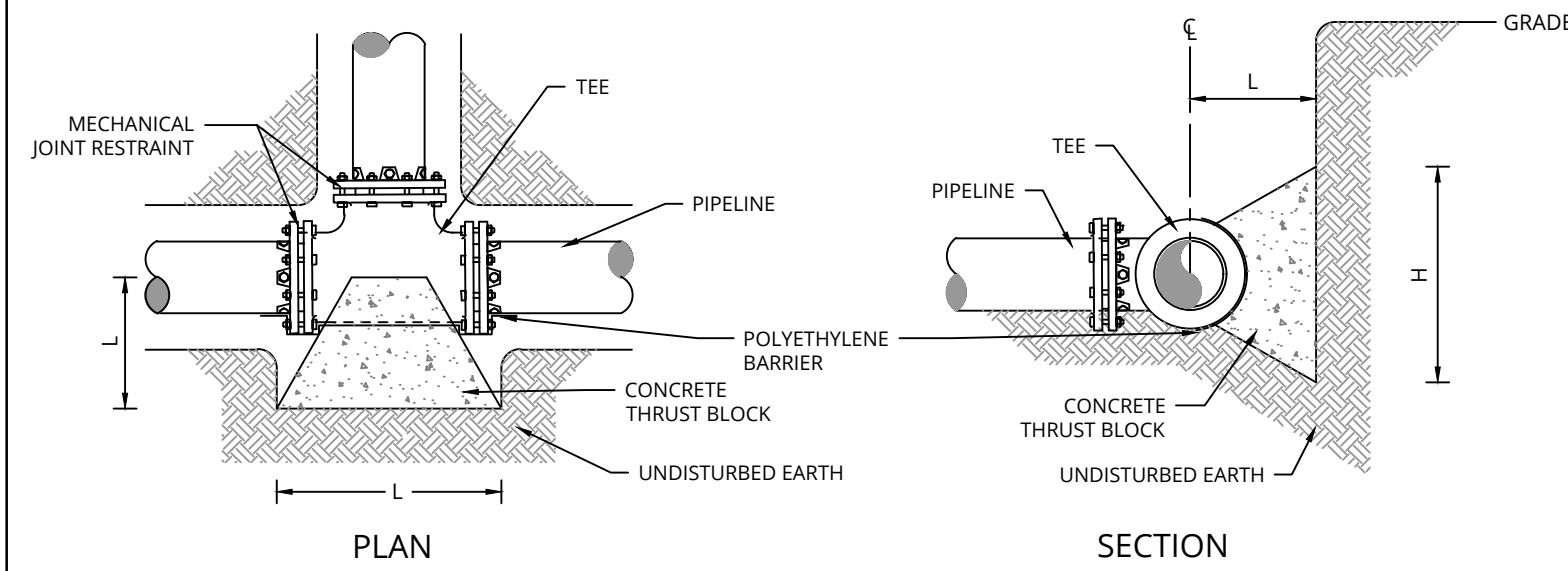
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 DESIGN SUPERVISOR: JBA



HORIZONTAL THRUST BLOCK FOR BENDS IN PARALLEL PIPE TRENCH SECTION
SCALE: NONE



HORIZONTAL THRUST BLOCK FOR BENDS
SCALE: NONE



HORIZONTAL THRUST BLOCK FOR TEES
SCALE: NONE

UP TO 150 P.S.I. WORKING PRESSURE										
	H	L	H	L	H	L	H	L	H	L
6"	1'-0"	2'-0"	1'-0"	2'-0"	1'-0"	1'-4"	0'-9"	1'-0"	0'-6"	1'-0"
8"	1'-4"	2'-8"	1'-4"	2'-8"	1'-4"	1'-6"	1'-0"	1'-0"	0'-9"	1'-0"
12"	2'-0"	4'-0"	2'-0"	4'-0"	2'-0"	2'-2"	1'-6"	1'-6"	1'-3"	1'-3"
14"	2'-4"	4'-8"	2'-4"	4'-8"	2'-4"	2'-6"	1'-9"	1'-9"	1'-4"	1'-4"
16"	2'-8"	5'-4"	2'-8"	5'-4"	2'-8"	3'-0"	2'-0"	2'-0"	1'-6"	1'-6"

- NOTES:
- SIZES BASED ON 150 PSI PRESSURE IN PIPELINE AND 2,000 PSF SOIL BEARING STRENGTH.
 - ALL EXPOSED PORTIONS OF ANCHOR STRAPS TO RECEIVE A MINIMUM OF 2 FIELD COATS OF BITUMASTIC MATERIAL.
 - PRIOR TO PLACING CONCRETE WRAP ANCHORS & ALL FITTINGS IN 8-MIL THICK POLYTHENE.
 - ALL ANCHOR RODS SHALL BE TYPE 304 STAINLESS STEEL.

THRUST BLOCK - HORIZONTAL (TYP.)
SCALE: NONE

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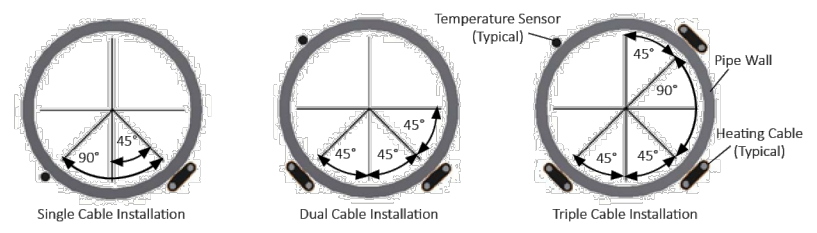
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



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LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING SITE DETAILS	DRAWING NUMBER: SD-3

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Illustration B: Heating Cable vs. Sensor Location



Installation on Elbows, Pipe Supports, and Flanges

- Elbows:** Locate the trace heater on the outside radius of the elbow (Illustration D). Secure the trace heater to the pipe with attachment tape on each side of the elbow.
- Pipe Supports:** For uninsulated pipe supports, allow twice the length of the support, plus an additional 40 cm of trace heater. Install the trace heater in a loop, following Illustration E as a guide. Insulated pipe supports do not require additional length of trace heater.
- Flanges:** Loop the trace heater around the pipe on each side of, and adjacent to, the flange (Illustration F). Be sure to keep the trace heater in close contact with the flange throughout the length of the bend.

Refer to Table 2 (page 8) for typical flange allowances.

Illustration D: Pipe Elbow

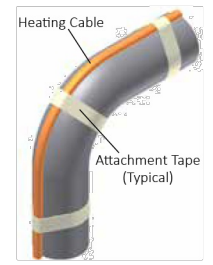


Illustration E: Uninsulated Pipe Support

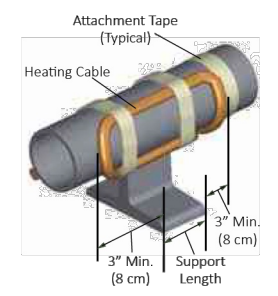
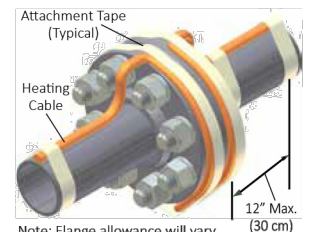
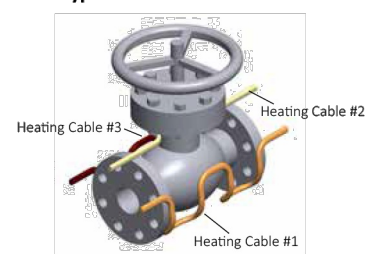


Illustration F: Pipe Flange



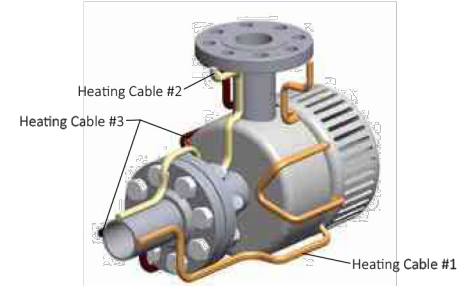
Note: Flange allowance will vary based on method of insulating flange and adjacent piping.

Illustration G: Typical Valve Detail

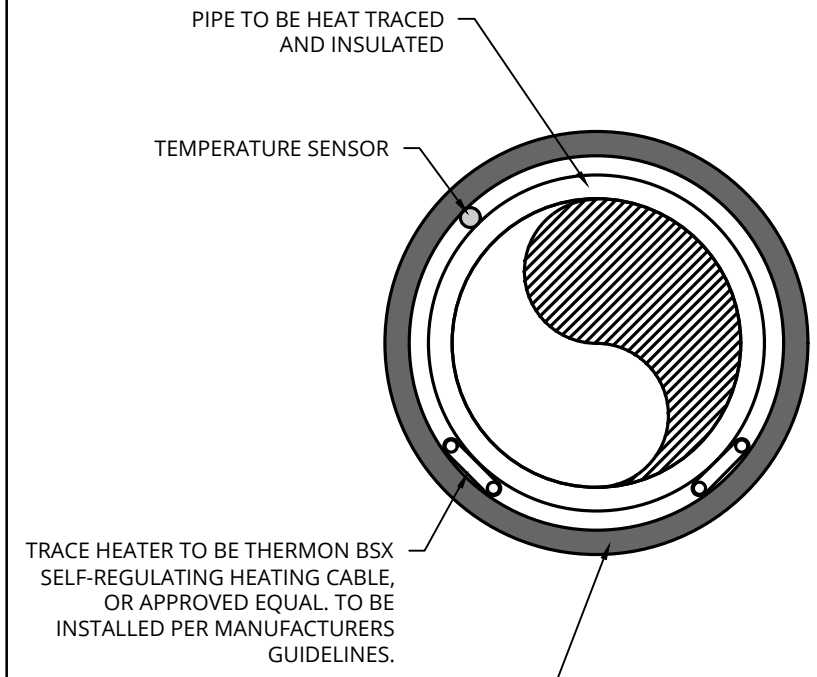


Heating Cable Serpentine on Valve

Illustration H: Typical Pump Detail



Heating Cable Serpentine on Pump



PIPE TO BE HEAT TRACED AND INSULATED

TEMPERATURE SENSOR

TRACE HEATER TO BE THERMON BSX SELF-REGULATING HEATING CABLE, OR APPROVED EQUAL. TO BE INSTALLED PER MANUFACTURERS GUIDELINES.

PIPE INSULATION TO BE DRAGON JACKET S-1 OR APPROVED EQUAL. REQUIRED THICKNESS PER MANUFACTURERS GUIDELINES (MIN. 2-INCH THICKNESS).

PIPE HEAT TRACER AND INSULATION DETAIL
SCALE: NONE

DRAGON JACKET
DRAGON JACKET S1™
INSULATION
TECHNICAL DATA SHEET
REVISED 10/12/18

TYPICAL PHYSICAL PROPERTIES	
Tensile Strength ASTM D412-06a	>4,000 psi (27.80 mpa)
Elongation ASTM D412-06a	>300%
Hardness (Shore A) ASTM D2240	N/A
Hardness (Shore D) ASTM D2240	57
100% Modulus ASTM D412-06	1,250 psi ± 100 (8 mpa)
300% Modulus ASTM D412-06	2,300 psi ± 100 (15 mpa)
Tear Resistance ASTM D624	420 PLI ± 50 (73 KN/m)
*Exposure Temperature <small>*Test performed in a dry, static environment</small>	-60°F to +300°F (-50°C to +149°C)

TEST INFORMATION		
Abrasion Resistance ASTM D4060 1kg - 1,000 cycles	H-22	62 mg lost
Weatherability QUV	no evidence after 3,000 hours	

COLORS

Dragon Jacket S1™ is available in high pigment black and silver. Custom colors will be quoted upon request.

TEST METHOD: 3,000 hour QUV Test with 0 degradation. Longer term testing is ongoing, and results will be available upon request.

*It should be noted that Dragon Jacket S1™ is an aromatic polyurea; therefore, as with all aromatics, color change and superficial oxidation will occur.

HEAT FLOW METER THERMAL TRANSMISSION (R-VALUE)	
Test Specimen ID	1
Test Duration (Minutes)	50
Average Heat Flux (Btu/hr-ft ²)	3.99
Average Thermal Conductance - C (Btu/hr-ft ² -°F)	0.080
Average Thermal Resistance - R (hr-ft ² -°F/Btu)	12.53
Average Thermal Resistance - R _{si} (m ² -K/W)	2.21
Average Thermal Resistivity - r (hr-ft ² -°F/Btu-in)	5.74
Apparent Thermal Conductivity - k (Btu-in/hr-ft ² -°F)	0.174
Specimine Average Thickness (inches)	2.183
†Specimine Average Density (lbs/ft ³)	5.7

TEST METHOD

ASTM C518-10, Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.

†The density of the sample was determined by dividing the average weight of the sample by its volume. The weight was measured using a calibrated scale and the volume was determined by measuring the length, width, and height of a sample.

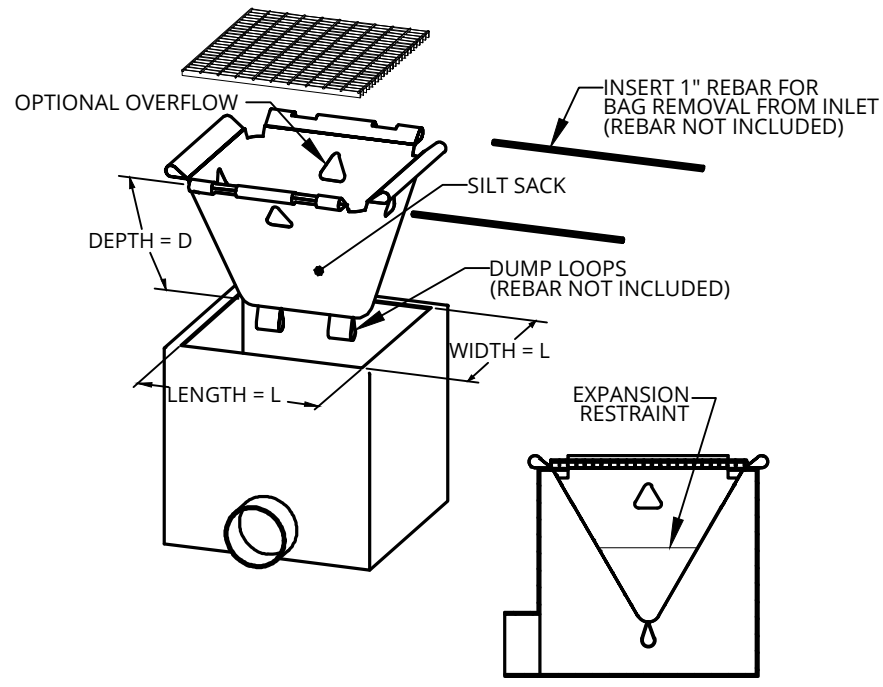
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(208) 772-8640 • INFO@DRAGONJACKET.COM
14080 N. THAYER ST. RATHDRUM, IDAHO 83858

ALTERED ON:	AFFIXED ON: 4/10/2026
SIGNATURE: STAMP:	

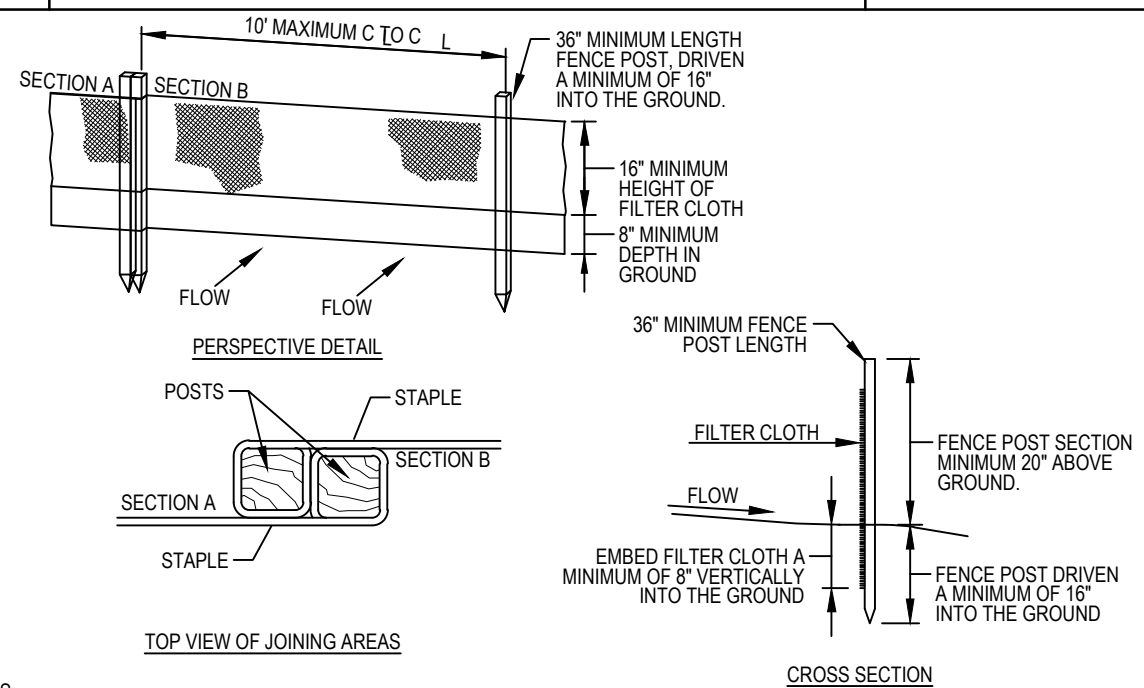
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING SITE DETAILS	DRAWING NUMBER: SD-4



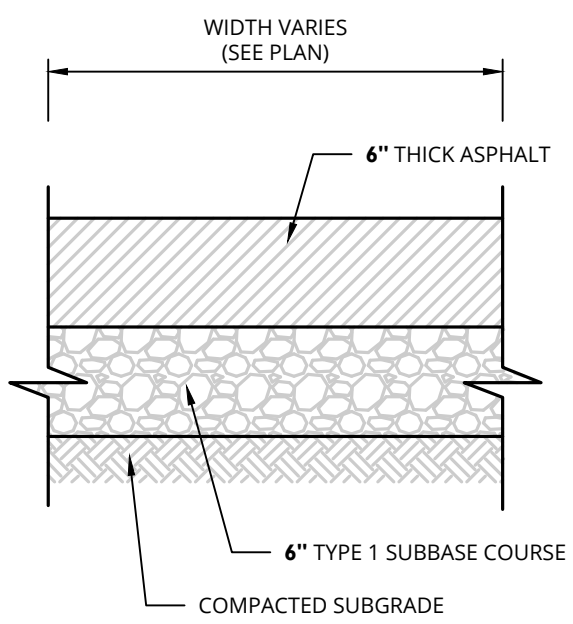
SILT SACK - TYPE A
SCALE: NONE



NOTES:

1. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.
2. ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE.
3. THE AREA BELOW THE FENCE MUST BE UNDISTURBED OR STABILIZED.
4. FENCE POSTS (FOR FABRIC UNITS): THE LENGTH SHALL BE A MINIMUM OF 36 INCHES LONG. WOOD POSTS 2 X 2 WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES WILL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHT NOT LESS THAN 1.00 POUND PER LINEAR FOOT.

SILT FENCE INSTALLATION
SCALE: NONE



ASPHALT DRIVEWAY PAVEMENT DETAIL
SCALE: NONE

PW:/
 CHECKED BY: JBA / RAP
 DRAFTED BY: SMB /
 CHECKED BY: JBA / RAP
 DESIGNED BY: ERE / SMB
 DESIGN SUPERVISOR: JBA

ALTERED ON:	AFFIXED ON: 4/10/2026
SIGNATURE: STAMP:	SIGNATURE: STAMP:

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 337.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING SITE DETAILS	DRAWING NUMBER: SD-5

NOTE

NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED APPEAR ON THESE CONTRACT DRAWINGS. INDIVIDUAL DRAWINGS MAY HAVE SHEET LEGENDS FOR UNIQUE SYMBOLS AND FOR CONVENIENCE.

ELECTRICAL SYMBOL LIST

GENERAL	POWER	POWER	POWER	SIGNAL	SITE	FIRE ALARM
<p>— LIGHT LINE WEIGHT INDICATES EXISTING ITEMS TO REMAIN OR PROVIDED BY OTHERS.</p> <p>— HEAVY LINE WEIGHT INDICATES ITEMS TO BE REMOVED, RELOCATED, OR PROVIDED BY E.C.</p> <p>LIGHTING</p> <p>LA' EM 2 a</p> <p>LA' LA' 2 a 2 a</p> <p>X1' X1'</p> <p>X1'</p> <p>EMERGENCY LIGHT HEADS - SINGLE HEAD AND DOUBLE HEADS</p> <p>EMERGENCY BATTERY LIGHTING UNIT. WIRE AHEAD OF LOCAL SWITCHING</p> <p>LIGHT ON CORD REEL</p> <p>S LIGHT SWITCH 20A, 120/277V</p> <p>* SINGLE POLE * KEY OPERATION * 3-WAY OPERATION * WP WEATHER PROOF * 4-WAY OPERATION * SWITCHING ARRANGEMENT * TIMER * PILOT LIGHT</p> <p>OS DUAL TECHNOLOGY WALL SWITCH TYPE OCCUPANCY SENSOR</p> <p>OS1 DUAL RELAY WALL SWITCH TYPE OCCUPANCY SENSOR</p> <p>OS2 INFRARED WALL SWITCH TYPE OCCUPANCY SENSOR</p> <p>D 0-10V WALL SWITCH DIMMER</p> <p>VS WALL SWITCH TYPE VACANCY SENSOR</p> <p>VS WALL SWITCH TYPE VACANCY SENSOR WITH 0-10V DIMMING</p> <p>VS WALL POD WITH PRESET SCENES AND 0-10V DIMMING</p> <p>OS OCCUPANCY SENSOR - CEILING MOUNTED</p> <p>*A - 1000 SQ. FT. COVERAGE *B - 2000 SQ. FT. COVERAGE *C - HALLWAY TYPE</p> <p>VS VACANCY SENSOR - CEILING MOUNTED</p> <p>*A - 1000 SQ. FT. COVERAGE *B - 2000 SQ. FT. COVERAGE</p> <p>PP POWER PACK</p> <p>PC PHOTOCCELL FOR LIGHTING CONTROL</p> <p>LSA LIGHT LEVEL SENSOR - TYPE DENOTED</p> <p>TC TIME CLOCK</p>	<p>POWER POLE</p> <p>LIGHTING ARRESTOR</p> <p>LIGHTNING PROTECTION AIR TERMINAL</p> <p>LIGHTNING PROTECTION CONDUCTOR SPLICE</p> <p>GROUND ROD</p> <p>GROUND ROD (PLAN VIEW)</p> <p>GROUND CONNECTION - EXOTHERMIC WELD</p> <p>GROUND TEST WELL</p> <p>GROUND CONNECTION TO STEEL OR STRUCTURE</p> <p>SPECIAL RECEPT. OR CONN. (SEE SCHEDULE)</p> <p>JUNCTION BOX</p> <p>PULL BOX</p> <p>PANEL X 100A MLO 208/120V 3Ø, 4W</p> <p>208/120V PANELBOARD - SURFACE MOUNTED, FLUSH MOUNTED</p> <p>PANEL X 400A MCB 480/277V 3Ø, 4W</p> <p>480/277V PANELBOARD - SURFACE MOUNTED, FLUSH MOUNTED</p> <p>MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER</p> <p>DRAWOUT CIRCUIT BREAKER</p> <p>DRAWOUT CIRCUIT BREAKER SPACE</p> <p>MOLDED CASE CIRCUIT BREAKER</p> <p>ENCLOSED CIRCUIT BREAKER</p> <p>TRANSFORMER</p> <p>GENERATOR</p> <p>SF-1 MOTOR</p> <p>MANUAL MOTOR STARTER WITH THERMAL OVERLOAD</p> <p>MAG. MOTOR STARTER OR CONTACTOR</p> <p>COMB. MOTOR STARTER (NON-FUSED)</p> <p>COMB. MOTOR STARTER (FUSED)</p> <p>COMBINATION STARTER WITH RESET BUTTON, HAND OPERATED ACTUATOR, AND INDICATOR LIGHT</p>	<p>FUSE</p> <p>SAFETY DISC. SW. (NON-FUSED)</p> <p>SAFETY DISC. SW. (FUSED)</p> <p>VARIABLE FREQUENCY CONTROLLER</p> <p>VARIABLE FREQUENCY CONTROLLER WITH HAND OPERATED ACTUATOR AND INDICATOR LIGHT</p> <p>VARIABLE FREQUENCY CONTROLLER WITH BYPASS, HAND OPERATED ACTUATOR, AND INDICATOR LIGHT</p> <p>AUTOMATIC TRANSFER SWITCH</p> <p>BUS PLUG</p> <p>BUS DUCT WITH PLUG UN DISCONNECT (FUSED)</p> <p>CONDUIT CONCEALED IN WALL OR OVERHEAD. CONDUIT SHOWN WITH SLASH MARKS SHALL CONTAIN 2 #12 & #12G CONDUCTORS IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.</p> <p>CONDUIT SHOWN WITH SLASH MARKS SHALL CONTAIN 1#12 CONDUCTOR PER SLASH MARK IN 3/4" CONDUIT UNLESS THE CONDUCTOR SIZE AND CONDUIT SIZE ARE SHOWN ADJACENT TO THE SLASH MARKS. SLASH MARK INDICATORS ARE: SHORT STRAIGHT=PHASE CONDUCTOR, LONG STRAIGHT=NEUTRAL CONDUCTOR, SHORT BENT ENDED=SWITCH LEGS, LONG STRAIGHT WITH A DOT=GROUND CONDUCTOR.</p> <p>CONDUIT CONCEALED</p> <p>CONDUIT EXPOSED</p> <p>SURFACE RACEWAY</p> <p>CONDUIT TRANSITION UP</p> <p>CONDUIT TRANSITION DOWN</p> <p>CONDUIT STUBBED OUT</p> <p>HEAT TRACE WIRING</p> <p>HOMERUN TO PANEL BOARD. LETTERS INDICATE PANEL NAME. ARROWS INDICATE NUMBER OF CIRCUITS. NUMBERS INDICATE CIRCUIT DESIGNATIONS IN PANEL.</p> <p>LPB 2,4</p> <p>UNDERFLOOR RACEWAY SYSTEM</p> <p>CABLE TRAY. "FS" INDICATES FIRE STOP LOCATION</p> <p>CONDUIT SLEEVE</p>	<p>SINGLE RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE</p> <p>DUPLEX RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE</p> <p>SPLIT DUPLEX RECEPT.</p> <p>ISOLATED GROUND RECEPT (DUPLEX)</p> <p>RECEPT ON EMERGENCY CKT (DUPLEX)</p> <p>QUADRUPLEX RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE</p> <p>QUADRUPLEX RECEPTACLE ON EMERGENCY CIRCUIT</p> <p>240 VOLT RECEPT.</p> <p>FLOOR RECEPT. (DUPLEX SHOWN)</p> <p>RECEPT ON DROP CORD (DUPLEX SHOWN)</p> <p>RECEPT ON CORD REEL (DUPLEX SHOWN)</p> <p>SPECIAL RECEPTACLE. NEMA CONFIGURATION AND RATING AS INDICATED</p> <p>EQUIPMENT PLUG</p> <p>MULTIPLE SERVICE OUTLET</p> <p>MULTIPLE SERVICE FLR OUTLET</p> <p>MULTIOUTLET ASSEMBLY</p> <p>CEILING RECEPTACLE</p>	<p>DOOR INTERLOCK</p> <p>ELECTRIC DOOR OPERATOR</p> <p>ELECTRIC HINGE</p> <p>ELECTRIC LATCH</p> <p>ELECTRIC STRIKE</p> <p>MOTION SENSOR FOR ACCESS CONTROL</p> <p>POWER SUPPLY FOR ACCESS CONTROL</p> <p>REQUEST TO EXIT DEVICE</p> <p>DOOR STATUS CONTACTS</p> <p>MAGNETIC LOCK</p> <p>DOOR CONTACTS</p> <p>CARD READER</p> <p>KEYPAD</p> <p>CCTV CAMERA-F=FIXED, P=PAN, T=TILT, Z= ZOOM</p> <p>WIRELESS ACCESS POINT</p> <p>SPEAKER (WALL OR CEILING MT.)</p> <p>VOLUME CONTROL</p> <p>PUSH BUTTON</p> <p>RELAY</p> <p>HUMIDISTAT</p> <p>THERMOSTAT</p> <p>TELEPHONE OUTLET BOX</p> <p>TWO GANG JUNCTION BOX WITH 1" CONDUIT STUBBED TO 6" ABOVE NEAREST ACCESSIBLE CEILING, NYLON BUSHING ON CONDUIT END, AND ALL RACEWAYS, ALL CABLING, TERMINATIONS AND TESTING BY OTHERS.</p> <p>DATA OUTLET BOX</p> <p>TWO GANG JUNCTION BOX WITH 1" CONDUIT STUBBED TO 6" ABOVE NEAREST ACCESSIBLE CEILING, NYLON BUSHING ON CONDUIT END, AND ALL RACEWAYS, ALL CABLING, TERMINATIONS AND TESTING BY OTHERS.</p> <p>COMBINATION TELE/DATA OUTLET BOX</p> <p>TWO GANG JUNCTION BOX WITH 1" CONDUIT STUBBED TO 6" ABOVE NEAREST ACCESSIBLE CEILING, NYLON BUSHING ON CONDUIT END, AND ALL RACEWAYS, ALL CABLING, TERMINATIONS AND TESTING BY OTHERS.</p> <p>TELEVISION OUTLET CEILING OR WALL MOUNT</p> <p>MULTIPLE SERVICE FLR OUTLET</p> <p>MULTIOUTLET ASSEMBLY</p> <p>CLOCK (WALL MOUNT)</p>	<p>POLE WITH STANCHION MOUNTED LIGHT FIXTURE. LETTERS INDICATED FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT.</p> <p>BOLLARD LIGHTING FIXTURE. LETTER INDICATE FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT.</p> <p>EXTERIOR WALL MOUNTED LIGHTING FIXTURE. LETTER INDICATES FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT.</p> <p>UTILITY SERVICE POLE</p> <p>UNDERGROUND ELECTRIC</p> <p>UNDERGROUND MEDIUM VOLTAGE ELECTRIC</p> <p>UNDERGROUND TELEPHONE</p> <p>UNDERGROUND COMMUNICATIONS</p> <p>UNDERGROUND CABLE TELEVISION (CATV OR CCTV)</p> <p>UNDERGROUND FIBER OPTIC</p> <p>AERIAL ELECTRIC LINE</p> <p>OVERHEAD TELEPHONE</p> <p>OVERHEAD ELECTRIC</p> <p>PIPE TAG</p> <p>CONDUIT TAG</p>	<p>FIRE ALARM CONTROL MODULE</p> <p>FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED OR DUCT DETECTOR TYPE.</p> <p>FIRE ALARM HEAT DETECTOR</p> <p>FIRE ALARM COMBINATION HORN/STROBE UNIT WITH 15/30/75/110 CANDELA FIELD SELECTABLE UNIT</p> <p>FIRE ALARM HORN UNIT</p> <p>FIRE ALARM STROBE UNIT WITH 15/30/75/110 CANDELA FIELD SELECTABLE UNIT</p> <p>FIRE ALARM MANUAL PULL STATION</p> <p>FIRE ALARM CONTROL PANEL - WALL MOUNTED</p> <p>FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED</p> <p>FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE</p> <p>MAGNETIC HOLD OPEN DEVICE</p> <p>FLOW SWITCH</p> <p>TAMPER SWITCH</p> <p>END OF LINE RESISTOR</p> <p>CARBON MONOXIDE DETECTOR - CEILING MOUNTED</p> <p>KNOX BOX</p>


GENERAL NOTES

- MINIMUM CIRCUIT BREAKER SIZE FOR CONDUITS SHOWN ON PLANS IS 20A, 1 POLE FOR 120VAC UNLESS OTHERWISE NOTED/SHOWN ON PLANS
- MINIMUM BRANCH CIRCUIT WIRING SHALL BE #12 AWG. DERATE CONDUCTORS PER NEC FOR VOLTAGE DROP AND CONDUIT FILL.
- PROVIDE GROUNDING PER NEC (ARTICLE 250).
- PROVIDE A SEPARATE NEUTRAL CONDUCTOR FROM PANELBOARD FOR EACH BRANCH CIRCUIT.
- CONTRACTOR SHALL COORDINATE WORK WITH ASSOCIATED TRADES.
- MOUNTING HEIGHTS ARE TO CENTER OF EQUIPMENT/DEVICE UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL SEAL WITH AN APPROVED METHOD ALL ELECTRICAL PENETRATIONS THRU FIRE FLOOR/PROOF/RATED WALLS, FLOORS, CEILINGS OR OTHER AREAS.
- CONTRACTOR SHALL PROVIDE FUSES SIZED PER MANUFACTURERS RECOMMENDATIONS FOR ALL EQUIPMENT INSTALLED WITH FUSED STARTERS OR DISCONNECTS.
- ALL EXTERIOR PVC CONDUIT SHALL TRANSITION TO RGS CONDUIT WITHIN 18" OF FOUNDATION WALL PRIOR TO PASSING THRU THAT WALL.
- CONTRACTOR SHALL PROVIDE RACEWAY, WIRE, CABLE AND ASSOCIATED FITTINGS ALONG WITH COMPLETE CONNECTIONS REQUIRED FOR BRANCH CIRCUITS FROM DEVICES TO FINAL OVERCURRENT DEVICE AND LOCAL CONTROL DEVICE(S) PER PROJECT SPECIFICATIONS.
- VERIFY EXACT LOCATION OF ELECTRICAL CONNECTION POINTS IN THE FIELD.
- ALL CONDUCTORS THAT ARE RETAINED FOR REUSE SHALL BE MEGGER TESTED TO CONFIRM THE INSULATION IS NOT COMPROMISED. A VISUAL INSPECTION SHALL BE PERFORMED TO ENSURE THE CONDUCTORS ARE NOT DAMAGED.
- CONTRACTOR SHALL STRIVE TO CONSOLIDATE CONDUITS AND ARRANGE IN A GEOMETRICALLY ALIGNED FASHION TO HAVE A LOW IMPACT ON THE AESTHETICS OF THE SPACE. EXPOSED CONDUITS SHALL BE PAINTED TO MATCH SURROUNDING CONDITIONS. REFER TO CONSTRUCTION COORDINATION REQUIREMENTS IN THE PROJECT SPECIFICATIONS.
- PROVIDE LIGHTING CONTROLS INCLUDING DEVICE ITSELF, CONDUIT, CONDUCTORS, 0-10V WIRING, POWER PACKS, SLAVE PACKS, CONNECTORS, AND OTHER ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.

DESIGNED BY: JCDRA
CHECKED BY: JRD
DRAFTED BY: DRA
DESIGN SUPERVISOR: JBA/JRD



ALTERED ON: _____ AFFIXED ON: _____

SIGNATURE: _____ SIGNATURE: _____
STAMP: _____ STAMP: _____



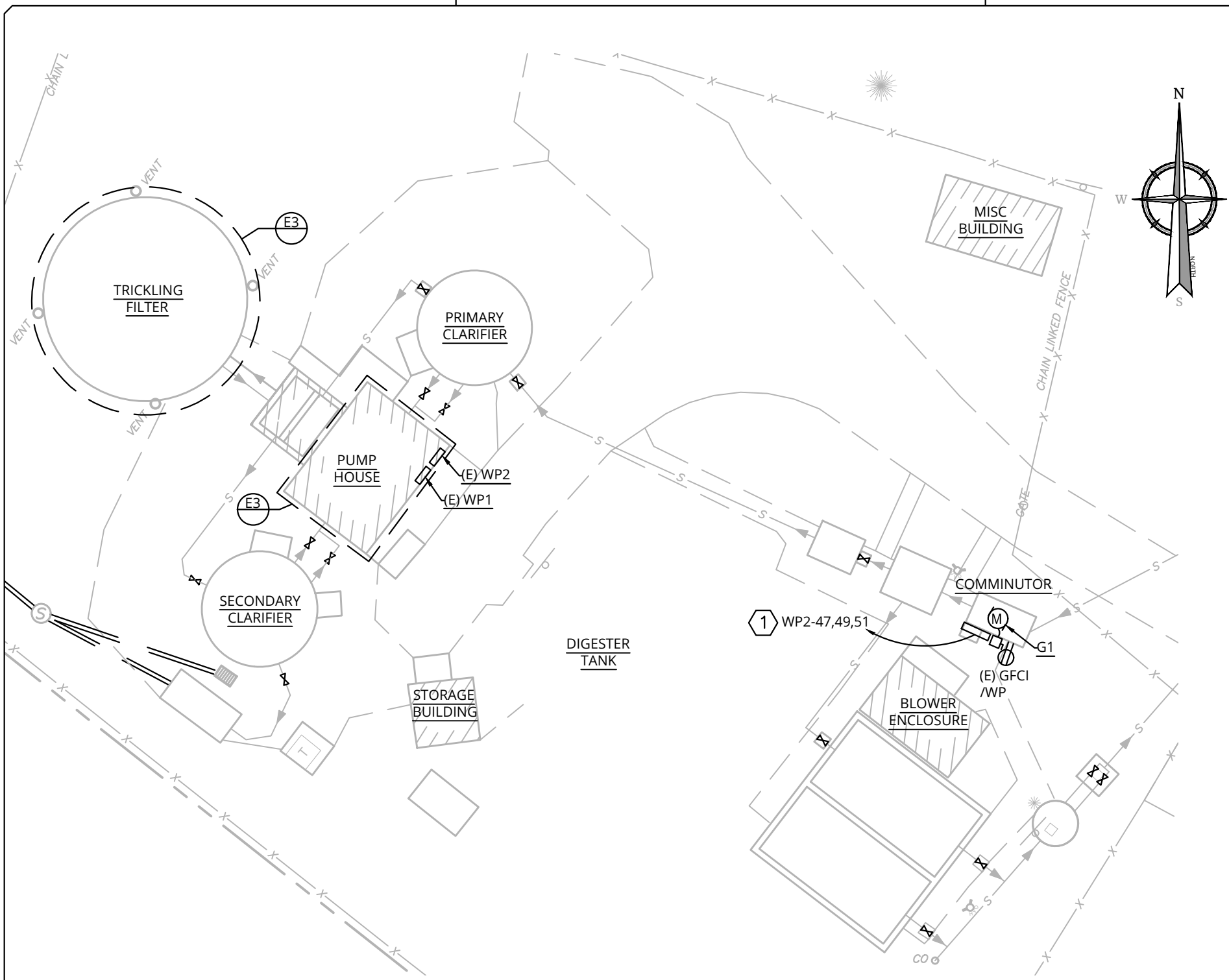
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DATE	DESCRIPTION	BY	SYM.

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LOCATION OF PROJECT MP 377.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING ELECTRICAL LEGEND	DRAWING NUMBER: E-1

PW/ /
 CHECKED BY: JRD
 DRAFTED BY: DRA
 CHECKED BY: JRD
 DESIGNED BY: TCDRA
 DESIGN SUPERVISOR: JBA/JRD

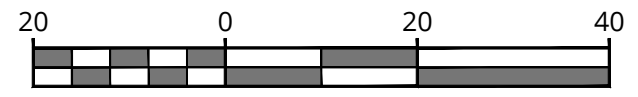


ELECTRICAL KEYNOTES:

- EXISTING HYDRAULIC COMMINUTOR TO BE REPLACED WITH AN ALL ELECTRIC COMMINUTOR . DISCONNECT AND REMOVE EXISTING CONTROL PANEL AND DISCONNECT SWITCH. RETAIN EXISTING MAINTENANCE GFCI RECEPTACLE AND SUPPORT STRUT. RE-USE EXISTING BRANCH CIRCUIT CONDUIT AND WIRING TO PROVIDE ELECTRICAL CONNECTION TO DISCONNECT SWITCH AND CONTROL PANEL. REPLACE BROKEN PVC CONDUIT THAT EXTENDS OUT OF GROUND BY UNIT WITH GALVANIZED RIGID STEEL. REFER TO SHEET E-5 FOR MORE INFORMATION.

ELECTRIC SITE PROPOSED IMPROVEMENTS PLAN

ALTERED ON:	AFFIXED ON:
SIGNATURE: STAMP:	SIGNATURE: STAMP:



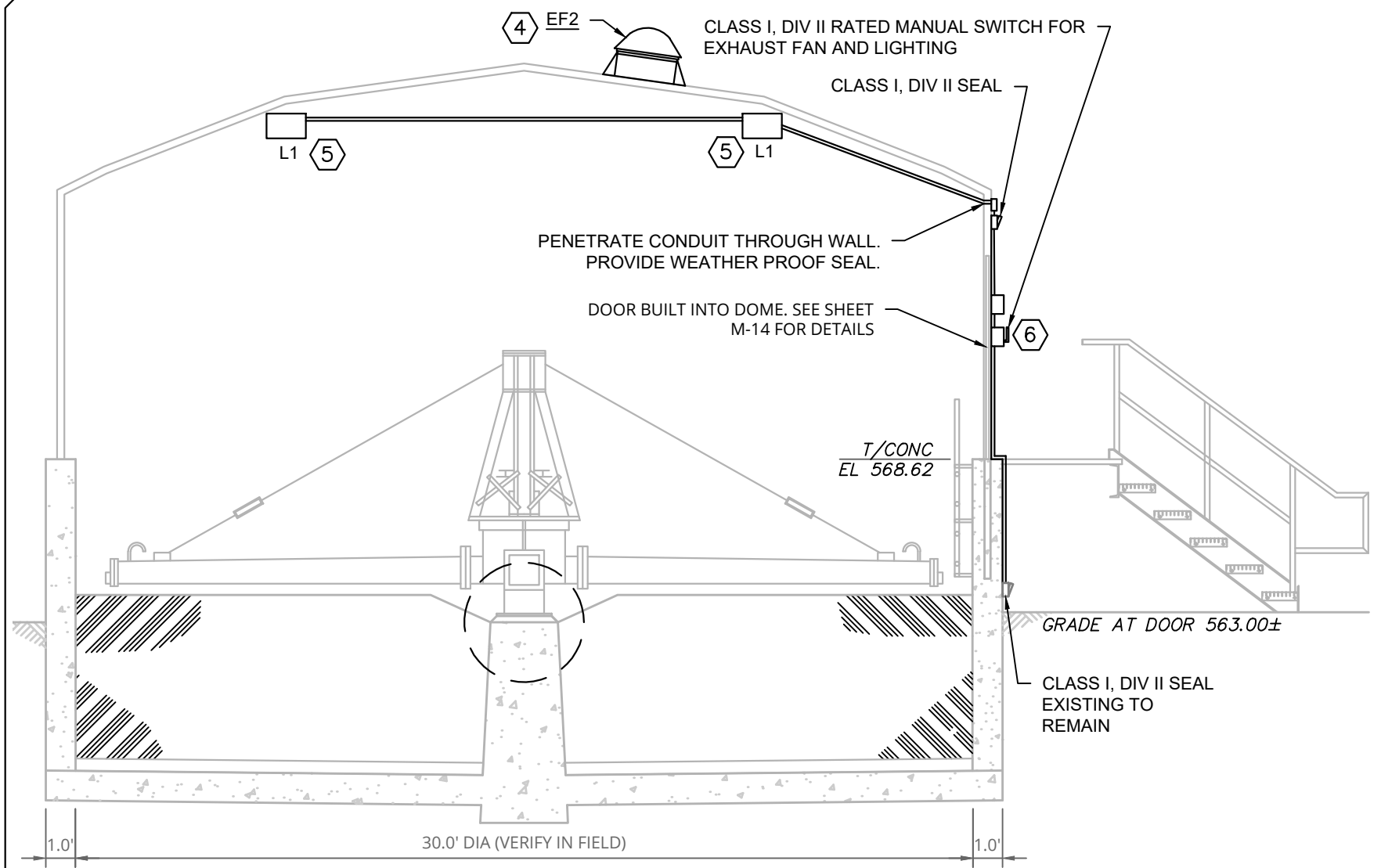
Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 377.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING ELECTRICAL SITE PLAN	DRAWING NUMBER: E-2

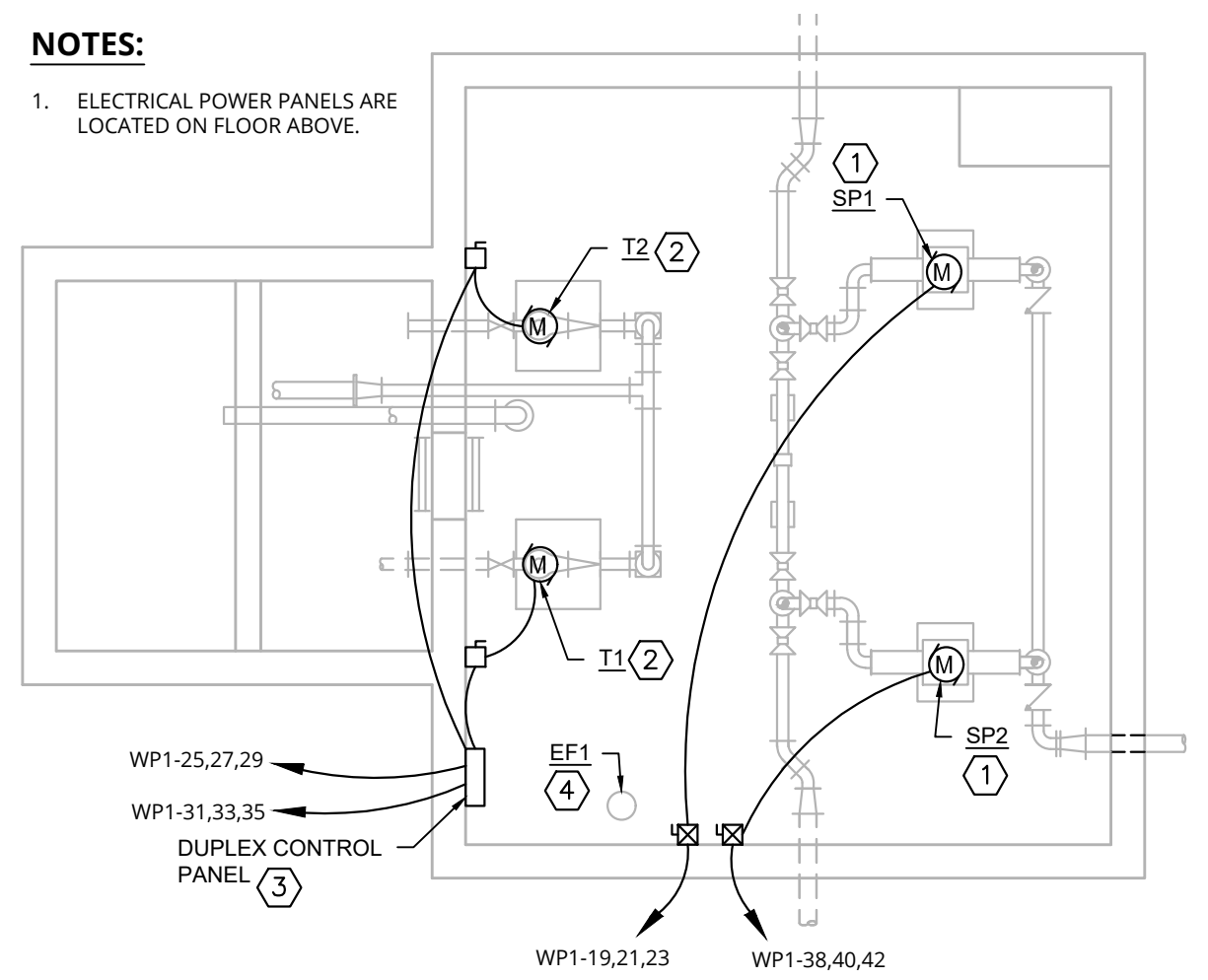


TRICKLING FILTER PROPOSED IMPROVEMENTS PLAN

SCALE: NTS

NOTES:

- ELECTRICAL POWER PANELS ARE LOCATED ON FLOOR ABOVE.



CONTROL BUILDING PROPOSED IMPROVEMENTS PLAN

SCALE: 1"=5'

(X) ELECTRICAL KEYNOTES:

- EXISTING SLUDGE PUMP TO BE REMOVED. REUSE EXISTING BRANCH CIRCUIT CONDUIT, WIRE, AND COMBINATION STARTER/DISCONNECT SWITCH. PROVIDE OVERLOADS SPECIFIC TO MOTOR FULL LOAD CURRENT. EXISTING SLUDGE PUMP CONTROLLER ON FIRST FLOOR SHALL BE REUSED AND INTEGRATED WITH NEW PUMPS AND NEW DUPLEX PANEL.
- EXISTING TRICKLER FEED PUMP TO BE REMOVED. REUSE EXISTING CONDUIT AND WIRE FOR NEW TRICKLER PUMP. EXISTING DISCONNECT TO REMAIN AND SERVE NEW TRICKLER PUMP. START/STOP CONTROLS, OVERLOADS SHALL BE PROVIDED WITH NEW DUPLEX CONTROL PANEL.
- DUPLEX CONTROL PANEL TO BE REMOVED AND REPLACED WITH PUMP VENDOR PROVIDED CONTROL PANEL. POWER TO TRICKLER FEED PUMPS SHALL BE WIRED THROUGH NEW CONTROL PANEL. CALL SERVICE AUTO DIALER SHALL BE BUILT IN BY MANUFACTURER, HARD WIRED PHONE CABLE BACKUP CONNECTION ONLY REQUIRED IF SPECIFIED BY LOCAL FIRE MARSHALL. REFER TO SPECIFICATIONS. ALL MONITORING SYSTEMS AND FIELD DEVICES LOCATED ON BASEMENT AND FIRST FLOOR SHALL REMAIN. MONITORING SYSTEMS SHALL BE INTEGRATED WITH NEW DUPLEX CONTROL PANEL. REUSE EXISTING CONDUIT AND WIRING WHERE POSSIBLE.
- EXISTING EXHAUST FAN TO BE REMOVED. PROVIDE CONDUIT AND WIRE FOR NEW EXHAUST FAN. BRANCH CIRCUIT WIRING AND CONDUIT TO BE ROUTED INSIDE OF TRICKLER STRUCTURE. PROVIDE PENETRATION AND CLASS 1 DIV 2 SEAL THROUGH ROOF AS REQUIRED. EXISTING MANUAL MOTOR SWITCH, WITH LED INDICATION, INSIDE CONTROL HOUSE TO REMAIN AND SERVE NEW EXHAUST FAN.
- LIGHTING INSIDE TRICKLING FILTER SHALL BE REPLACED. PROVIDE NEW CONDUIT AND WIRING RATED CLASS I, DIV I ENVIRONMENTS INSIDE TRICKLING FILTER TO EXTEND POWER TO LIGHT FIXTURES. REFER TO LUMINAIRE SCHEDULE ON E-4.
- EXISTING DISCONNECT SWITCH FOR EXHAUST FAN AND LIGHTS TO BE REPLACED. PROVIDE NEMA 4X HOUSING FOR DISCONNECT SWITCH. PROVIDE EXPLOSION PROOF FITTINGS TO PENETRATE STRUCTURE.



SCALE : 1" = 5'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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SIGNATURE: STAMP:	SIGNATURE: STAMP:

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LOCATION OF PROJECT MP 377.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING ELECTRICAL POWER FLOOR PLAN	DRAWING NUMBER: E-3

PWV /
 CHECKED BY: JRD
 DRA
 DRAFTED BY: JRD
 CHECKED BY: JRD
 TCDRA
 DESIGNED BY: JRD
 DESIGN SUPERVISOR: JBA/JRD

PANEL 'WDP1'													
VOLTAGE: 120/208V				LOCATION: CONTROL BUILDING									
PHASE: 3				FED FROM:									
WIRE: 4				UL LISTED EQUIPMENT SHORT CIRCUIT RATING: 10KAIC									
MAIN BUS AMPS: 200				MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT:									
MAIN CIRCUIT BREAKER:				PHASE CONDUCTOR:									
MOUNTING: SURFACE				NEUTRAL CONDUCTOR:									
FEED: TOP				ELECTRICAL GROUND CONDUCTOR:									
SUB FEED LUGS: NO													
LOAD DESCRIPTION & LOCATION	PHASE AMPS			BREAKER		BREAKER			PHASE AMPS			LOAD DESCRIPTION & LOCATION	
	PH. A	PH. B	PH. C	POLES	AMPS	AMPS	POLES	PH. A	PH. B	PH. C			
PUMP HOUSE LIGHTS				1	20	1	20	1				PUMP HOUSE RECEPS BASEMENT	
				1	20	3	20	1				PUMP HOUSE RECEPS	
AERATION SYSTEM CONTROL PANEL				1	20	5	20	1				DIGESTER RAKE	
SPARE				1	20	7	20	1				SECONDARY CLARIFIER C-2	
PUMP HOUSE VENT FAN				1	20	9	20	1				PRIMARY CLARIFIER C-1	
SPARE				1	20	11	20	1				HOT WATER HEATER	
GENERATOR BLOCK HEATER				2	20	13	20	1				FLOW MONITORS	
						15	20	1				BLOWER BUILDINGS LTS	
GENERATOR BATTERY CHARGER				1	20	17	20	1				SPARE	
	7.6					19	20	1				SPARE	
SLUDGE PUMP 1		7.6		3	20	21	30	2				DAYTON HEATER 208V BASEMENT	
			7.6			23							
						25							
TRICKLING FILTER PUMPS T1 & T2		7.5		3	20	27	15	3				TRICKLER FILTER BLDG. EXHUAUST FAN AND LIGHTS	
			7.5			29							
						31							
PUMP STATION PANEL P-1 & P-2				3	20	33	20	3				IN USE	
						35							
PUMP HOUSE HVAC UNIT				2	20	37			7.6				
						39				7.6		SLUDGE PUMP 2	
SPARE				1	20	41				7.6			
TOTAL AMPS	15.1	15.1	15.1						7.6	7.6	7.6	TOTAL AMPS	
						PH. A	PH. B	PH. C	NOTES: SQUARE D TYPE NQOD PANEL				
						22.70	22.70	22.70	PROVIDE CIRCUIT BREAKERS INDICATED TO FILL				
						TOTAL PHASE AMPS							
						TOTAL PHASE KVA	2.72	2.72	2.72				
						TOTAL 3-PHASE KVA		8.17					

PANEL 'WDP 2'													
VOLTAGE: 120/208V				LOCATION: CONTROL BUILDING									
PHASE: 3				FED FROM:									
WIRE: 4				UL LISTED EQUIPMENT SHORT CIRCUIT RATING: 10KAIC									
MAIN BUS AMPS: 225				MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT:									
MAIN CIRCUIT BREAKER:				PHASE CONDUCTOR:									
MOUNTING: SURFACE				NEUTRAL CONDUCTOR:									
FEED: BOTTOM				ELECTRICAL GROUND CONDUCTOR:									
SUB FEED LUGS: NO													
LOAD DESCRIPTION & LOCATION	PHASE AMPS			BREAKER		BREAKER			PHASE AMPS			LOAD DESCRIPTION & LOCATION	
	PH. A	PH. B	PH. C	POLES	AMPS	AMPS	POLES	PH. A	PH. B	PH. C			
BASEMENT HEATER				2	20	43	20	2				PUMP HOUSE HANGING UNIT HEATER	
						45							
						47						DAYTON HEATER UPSTAIRS	
ELECTRIC COMMUNOTOR	11.0					49							
		11.0				51							
			11.0			53						SPARE	
RECEIPT GRINDER				1	20	55						SPARE	
IN USE				1	20	57						SPARE	
IN USE				1	20	59						SPARE	
SPARE				1	20	61						SPARE	
SPARE				1	20	63						SPARE	
SPARE				1	20	65						SPARE	
				1	20	67						SPARE	
BLOWERS B-1,B-2				3	100	69						SPARE	
						71						SPARE	
TOTAL AMPS	11.0	11.0	11.0						0.0	0.0	0.0	TOTAL AMPS	
						PH. A	PH. B	PH. C	NOTES: SQUARE D TYPE NQOD PANEL				
						TOTAL PHASE AMPS	11.00	11.00	11.00	PROVIDE CIRCUIT BREAKERS INDICATED TO FILL			
						TOTAL PHASE KVA	1.32	1.32	1.32				
						TOTAL 3-PHASE KVA		3.96					

ELECTRICAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE															
EQUIPMENT TAG	DESCRIPTION	LOAD			VOLTAGE	PHASE	CIRCUIT BREAKER	CONDUIT & WIRE	FUSED DISCONNECT SWITCH	NON-FUSED DISCONNECT SWITCH	MANUAL MOTOR STARTER	COMBINATION STARTER WITH H-O-A	VFD WITH INTEGRAL DISCONNECT	FULL VOLTAGE CONTACTOR	NOTES
		HP	AMPS	WATTS											
G1	ELECTRIC COMMUNOTOR			2200	208	3	20A / 3P	(3)#10 (1)#10 GND IN 3/4" C.		30A, NEMA 4X					1
T1,T2	TRICKLING FILTER FEED PUMPS	3	7.54		208	3	20A / 3P	(3)#10 (1)#10 GND IN 3/4" C.							2
EF1	BASEMENT EXHAUST FAN														3
EF2	TRICKLER EXHUAUST FAN														3
SP1,SP2	SLUDGE PUMPS	2.2	7.6		208	3	20A / 3P	(3)#10 (1)#10 GND IN 3/4" C.							2

- NOTES:
- ELECTRIC COMMUNOTOR FURNISHED WITH CONTROL PANEL. EC TO INSTALL AND PROVIDE ALL INTERCONNECTING BRANCH CIRCUIT WIRING AND CONDUIT FOR COMPLETE POWER CONNECTION.
 - START/STOP CONTROLS AND LEAD/LAG CONTROLS WRIED TO DUPLEX CONTROL PANEL. EC SHALL COORDINATE PROVIDING INTERCONNECTED CONDUIT AND WIRING WITH CONTROL PANEL PROVIDER.
 - REPLACE UNIT IN KIND. REUSE BRANCH CIRCUIT WIRING AND CONDUIT UNLESS EXPLICITLY NOTED ON PLAN. REUSE EXISTING CONTROL STRATEGY.

LUMINAIRE SCHEDULE									
TYPE	LAMP	MANUFACTURER	MODEL NUMBER	BALLAST/DRIVER	VOLTAGE	MOUNTING	INPUT WATTAGE	DESCRIPTION	NOTES
L1	LED	SOLAS RAY LIGHTING	HJCR1L-040-40-U-120-HJT B	N/A	UNV	SURFACE	40W	LED MAINTENANCE LIGHT	1,2

- NOTES:
- LIGHT FIXTURE SHALL BE RATED FOR CLASS I, DIV I ENVIROMENTS.
 - LIGHT FIXTURE SHALL BE ON THE SAME BRANCH CIRCUIT AND CONTROLS AS THE TRICKLING FILTER EXHAUST FAN.

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





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TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 377.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING SCHEDULES	DRAWING NUMBER: E-4

LEGEND:

-  - PROVIDE WALL MOUNTED HORN/STROBE WITH CANDELA RATING AS NOTED.
-  - PROVIDE WALL MOUNTED STROBE WITH CANDELA RATING AS NOTED.
-  - PROVIDE MANUAL PULL STATION.
-  - FIRE ALARM CONTROL PANEL.
-  - FIRE ALARM CELLULAR DIALER.
-  - PROVIDE PHOTOELECTRIC SPOT-TYPE SMOKE DETECTOR.
-  - UNDERGROUND FIRE ALARM CONDUIT.
- FACP - FIRE ALARM CONTROL PANEL.
- TYP - TYPICAL.
- WP - WEATHER-PROOF.
- CD - CANDELA.

SCOPE OF WORK:

1. PROVIDE AND INSTALL A WORKING FIRE ALARM SYSTEM IN THE SCOPE OF WORK AREA.
 - 1.1. THE SYSTEM SHALL BE COMPRISED OF DEVICES AND APPLIANCES AS INDICATED ON THIS SET OF DRAWINGS.
 - 1.2. THE SYSTEM SHALL BE INSTALLED AND PROGRAMMED SO THAT UPON THE ACTUATION OF AN ALARM, TROUBLE OR SUPERVISORY SIGNAL AT THE FIRE ALARM CONTROL UNIT, A CORRESPONDING SIGNAL SHALL BE REPORTED TO A LISTED CENTRAL STATION MONITORING SERVICE IN ACCORDANCE WITH NFPA 72.
 - 1.3. THE LOCATIONS OF FIRE ALARM DEVICES AND APPLIANCES SHALL BE LOCATED AS SHOWN IN THIS SET OF PLANS. DEVIATIONS FROM THIS LAYOUT SHALL NOT BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE ARCHITECT AND ENGINEER.
2. THE FIRE ALARM INSTALLATION CONTRACTOR AND VENDOR SHALL BE LICENSED BY THE NEW YORK DEPARTMENT OF STATE FOR FIRE ALARM SYSTEMS INSTALLATION.
3. THE SYSTEM SHALL BE TESTED FOR ACCEPTANCE IN ACCORDANCE WITH NFPA 72.
4. THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN COMPLIANCE WITH NFPA 72. FINAL LOCATION OF AUDIBLE NOTIFICATION APPLIANCES SHALL BE SHOWN ON THE CONTRACTOR'S SHOP DRAWINGS AND SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND THE OWNER'S REPRESENTATIVE.
5. CONDUCT A THOROUGH EXAMINATION OF THE PREMISES PRIOR TO PREPARING A PROPOSAL. ANY CHANGES TO THE DESIGN MADE NECESSARY BY FIELD CONDITIONS SHALL BE CONVEYED TO THE ENGINEER PRIOR TO PREPARING A PROPOSAL. NO ADDITIONAL COSTS BEYOND THE PROPOSAL PRICE WILL BE ACCEPTED FOR FIELD CONDITIONS THAT COULD HAVE BEEN DETERMINED BY AN INSPECTION OF THE PREMISES.
6. PROVIDE RED-LINE DRAWINGS AND/OR AS-BUILT DRAWINGS. DRAWINGS SHALL BE AVAILABLE IN PDF AND AUTOCAD FORMATS.
7. THE BASE BUILDING "CONTRACT DRAWINGS" INCLUDING ALL RESPECTIVE ADDENDA & BULLETINS SHALL FORM A PART OF THIS WORK & ALL WORK SHALL BE SUBJECT TO RESPECTIVE PROVISIONS THEREOF.

APPLICABLE CODES AND STANDARDS:

- SYSTEMS SHALL BE INSTALLED SO THAT THEY ARE COMPLIANT WITH THE CODES AND STANDARDS BELOW. THESE CODES AND STANDARDS SHALL APPLY TO THE CONTRACT AS THOUGH THEY WERE WRITTEN ON THIS DRAWING IN THEIR ENTIRETY.
1. BCNYS, BUILDING CODE OF NEW YORK STATE, 2025
 2. FCNYS, FIRE CODE OF NEW YORK STATE, 2025
 3. EBCNYS, EXISTING BUILDING CODE OF NEW YORK STATE, 2025
 4. NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, 2025
 5. NFPA 70, NATIONAL ELECTRIC CODE, 2026


CENTRAL STATION SERVICE NOTES:

1. ESTABLISH THE MONITORING SERVICE OF THE PROPOSED FIRE ALARM SYSTEM BY A LISTED CENTRAL STATION IN ACCORDANCE WITH NFPA 72.
2. CONSPICUOUSLY INDICATE THAT THE ALARM SYSTEM PROVIDING SERVICE AT A PROTECTED PREMISES COMPLIES WITH ALL THE REQUIREMENTS OF THIS CODE THROUGH THE USE OF A SYSTEMATIC FOLLOW-UP PROGRAM UNDER THE CONTROL OF THE ORGANIZATION THAT HAS LISTED THE PRIME CONTRACTOR. DOCUMENTATION INDICATING CODE COMPLIANCE OF THE ALARM SYSTEM SHALL BE ISSUED BY THE ORGANIZATION THAT HAS LISTED THE PRIME CONTRACTOR. THE DOCUMENTATION SHALL BE PHYSICALLY POSTED WITHIN 3 FT OF THE CONTROL UNIT, AND COPIES OF THE DOCUMENTATION SHALL BE MADE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION AND ENGINEER UPON REQUEST.
3. THE CENTRAL STATION SERVICE SHALL BE PROVIDED UNDER CONTRACT TO THE OWNER.

FIRE ALARM WORKING DRAWINGS AND SUBMITTALS:

1. PROVIDE PRODUCT SUBMITTALS FOR REVIEW AND APPROVAL PRIOR TO SYSTEM INSTALLATION. PRODUCT SUBMITTALS SHALL INCLUDE MANUFACTURERS, MODEL NUMBERS AND LISTING INFORMATION FOR EQUIPMENT, DEVICES AND MATERIALS.
2. PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR REVIEW AND APPROVAL IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS PRIOR TO SYSTEM INSTALLATION. THE SHOP DRAWINGS AND CALCULATIONS SHALL, AT A MINIMUM, INCLUDE:
 - 2.1. A FLOOR PLAN WHICH INCLUDES THE FOLLOWING:
 - 2.1.1. INDICATES THE USE OF ALL ROOMS.
 - 2.1.2. LOCATIONS OF ALARM-INITIATING AND NOTIFICATION APPLIANCES.
 - 2.1.3. ALARM CONTROL AND TROUBLE SIGNALING EQUIPMENT.
 - 2.1.4. POWER CONNECTION.
 - 2.1.5. CONDUCTOR TYPES AND SIZES.
 - 2.1.6. DETAILS OF CEILING HEIGHT AND CONSTRUCTION.
 - 2.2. THE INTERFACE OF SAFETY FIRE CONTROL FUNCTIONS, SUCH AS HVAC SHUTDOWN AND/OR CLOSING OF DAMPERS.
 - 2.3. A DETAILED ONE-LINE DIAGRAM OF THE FIRE ALARM SYSTEM COMPONENTS AND WIRING.
 - 2.4. DOCUMENTATION INDICATING APPLIANCES AND INDICATING INTELLIGIBILITY (WHERE REQUIRED) OF AUDIBLE NOTIFICATION (STI OR CIS) AND/OR MINIMUM SOUND PRESSURE AUDIBILITY LEVEL IS COMPLIANT WITH NFPA 72 FOR ALL AREAS.
 - 2.5. BATTERY CALCULATIONS.
 - 2.6. VOLTAGE DROP CALCULATIONS.
3. PROVIDE CONTRACT CLOSEOUT DOCUMENTS FOR APPROVAL BY THE ENGINEER. THE CONTRACT CLOSEOUT DOCUMENTS SHALL INCLUDE, BUT ARE NOT LIMITED TO:
 - 3.1. SYSTEM RECORD OF COMPLETION IN ACCORDANCE WITH NFPA 72.
 - 3.2. AN OWNER'S MANUAL AND MANUFACTURER'S PUBLISHED INSTRUCTIONS IN ACCORDANCE WITH NFPA 72.
 - 3.3. RECORD (AS-BUILT) DRAWINGS IN ACCORDANCE WITH NFPA 72.
 - 3.4. PROVIDE ADDITIONAL INFORMATION AND/OR CALCULATIONS AS REQUESTED DURING THE SUBMITTAL REVIEW AND APPROVAL PROCESS.
 - 3.5. SUBMITTALS AND SHOP DRAWINGS SUBMISSIONS REQUIRING MORE THAN TWO REVIEW CYCLES DUE TO CONTRACTOR'S OR SUB CONTRACTOR'S OWN ERRORS, OMISSIONS OR INCOMPLETENESS CAUSES ADDITIONAL EFFORTS REQUIRED BY ENGINEER (RAN FIRE PROTECTION ENGINEERING P.C.). THESE ADDITIONAL EFFORTS ARE BACK-CHARGEABLE TO AND AT THE SOLE COST OF THE CONTRACTOR AND/OR SUB CONTRACTOR WHO SHALL PAY RAN'S STANDARD HOURLY RATES AS ADDITIONAL SERVICES UNDER RAN'S CONTRACT WITH OWNER/CLIENT.

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TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 377.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING FIRE ALARM NOTES	DRAWING NUMBER: FA001



FIRE ALARM SYSTEM NOTES:

1. SECONDARY POWER BATTERY SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72 TO PROVIDE POWER FOR A MINIMUM OF 24 HOURS STANDBY AND 5 MINUTES ALARM.
2. INSTALLATION WORK SHALL NOT PROCEED UNTIL SUBMITTALS HAVE BEEN RECEIVED, PROCESSED & APPROVED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECTS SPECIFICATIONS.
3. CONSULT THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE SYSTEM DESIGN, INTENDED PERFORMANCE, PRODUCTS AND INSTALLATION.
4. DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO BID.
4.1. WHERE DISCREPANCIES ARISE BETWEEN THE CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY TO THE CONTRACT.
5. A WORKING SET OF DOCUMENTS SHALL BE MAINTAINED & USED AS A DRAFT OF THE AS-BUILT DRAWINGS. THIS DRAFT SET SHALL BE AVAILABLE FOR INSPECTION OR REVIEW BY OWNER'S REPRESENTATIVES. THE DRAFT SET OF DOCUMENTS SHALL BE MAINTAINED ON A 48-HOUR BASIS: AS EACH PIECE OF EQUIPMENT IS INSTALLED, THE LOCATION SHALL BE ACCURATELY RECORDED ON THE DRAFT AS-BUILT DOCUMENTS WITHIN 48 HOURS; AS EACH CIRCUIT IS INSTALLED & CONNECTED TO EQUIPMENT, THE ROUTING & CONNECTION ORDER SHALL BE RECORDED ON THE DRAFT AS-BUILT DOCUMENTS WITHIN 48 HOURS. CONSULT THE PROJECT SPECIFICATIONS FOR COMPLETE INFORMATION ON THE REQUIREMENTS FOR AS-BUILT DOCUMENTATION. DOCUMENTS SHALL BE TURNED OVER TO ENGINEER AT COMPLETION OF PROJECT.
6. ALL INITIATING DEVICES, CONTROL MODULES, MONITOR MODULES, NOTIFICATION APPLIANCES, & ALL OTHER EQUIPMENT SHALL BE INSTALLED ON STANDARD ELECTRICAL BACK BOXES THAT ARE SECURED TO THE BUILDING STRUCTURE.
7. WHERE EQUIPMENT MUST BE INSTALLED ON SUSPENDED CEILINGS OR BETWEEN BUILDING STRUCTURAL COMPONENTS, ADEQUATE FIXTURE BARS OR OTHER SUPPORT SHALL BE PROVIDED.
8. CABINET ASSEMBLY & MOUNTING SHALL BE SUCH THAT ALL SWITCHES & OPERATOR CONTROLS ARE NO LESS THAN 36 INCHES & NO MORE THAN 72 INCHES ABOVE THE FINISHED FLOOR.
9. CONTROL UNITS SHALL BE INSTALLED SO THAT WORKING CLEARANCES ARE MAINTAINED AROUND THE UNITS IN ACCORDANCE WITH NFPA 70.
10. ALL CABLES OR CONDUITS SHALL ENTER CONTROL UNITS OR EQUIPMENT IN LOCATIONS PERMITTED BY EQUIPMENT MANUFACTURER.
11. AUDIBLE NOTIFICATION APPLIANCES, VISIBLE NOTIFICATION APPLIANCES, & COMBINATION NOTIFICATION APPLIANCES SHALL HAVE THE SAME STYLE BACKBOX & SHALL BE CAPABLE OF BEING INTERCHANGED.
12. ALL CONNECTIONS TO CONTROLS, DEVICES, & APPLIANCES SHALL BE MADE TO TERMINALS OR PIGTAILS THAT ARE AN INTEGRAL PART OF THE CONTROL, DEVICE, OR APPLIANCE. FIELD MANUFACTURED PIGTAIL LEADS SHALL NOT BE ALLOWED.
13. ALL CONDUCTOR JUNCTIONS SHALL BE MADE ON SCREW-TYPE TERMINAL BLOCKS. TERMINAL CABINETS WITH HINGED, LOCKABLE RED COVERS SHALL BE PROVIDED AT ALL FIRE ALARM & REMOTE CONTROL CIRCUIT JUNCTION POINTS WHERE MORE THAN EIGHT CONNECTIONS MUST BE MADE. JUNCTION BOXES WITH TERMINAL STRIPS MAY BE USED WHERE THE NUMBER OF CONNECTIONS IS EIGHT OR LESS. ALL TERMINALS WITHIN A TERMINAL CABINET OR JUNCTION BOX SHALL BE PROPERLY LABELED & SHALL BE ACCURATELY SHOWN ON THE AS-BUILT DRAWINGS.
14. FIRE ALARM SYSTEM WIRING SHALL NOT BE PERMITTED TO BE INSTALLED IN THE SAME CABLE, CONDUIT, OR RACEWAY AS POWER OR LIGHTING CIRCUITS EXCEPT AS ALLOWED FOR FIRE ALARM SYSTEMS IN NFPA 70.
15. AC & DC WIRING SHALL NOT BE PERMITTED IN THE SAME CABLE, CONDUIT, OR RACEWAY.
16. ALL WIRING WITHIN CONTROL EQUIPMENT SHALL BE INSTALLED SO THAT THE WIRING & THE EQUIPMENT ARE ACCESSIBLE. WIRING SHALL BE INSTALLED SO THAT THE EQUIPMENT CAN BE SERVICED OR REMOVED WITHOUT DISCONNECTING OR MOVING UNRELATED CIRCUITS.
17. THE COVERS OF ALL JUNCTION BOXES SHALL BE PAINTED RED UNLESS OTHERWISE NOTED.
18. PENETRATIONS MADE IN ANY FIRE- OR SMOKE- RATED BARRIER, WALL, OR PARTITION, SUCH AS STAIRWELLS, SHALL BE FILLED & PATCHED WITH A MATERIAL THAT PROVIDES A FIRE RATING EQUAL TO OR GREATER THAN THE PENETRATED ASSEMBLY. PROPRIETARY FILLER MATERIALS MUST BE APPROVED OR LISTED AS FIRE-RATED FILLER MATERIALS. PRIOR TO USING SUCH MATERIALS, SUBMIT COMPLETE MANUFACTURER'S INFORMATION FOR APPROVAL.
19. DETERMINE BEST LOCATION FOR ROUTING/RE-ROUTING ALL ASSOCIATED RACEWAYS. RACEWAY ROUTING SHOWN SHALL BE USED & ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, &/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY EXISTING STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS & AVOID ANY/ALL OBSTRUCTIONS OR INTERFERENCE'S WITH FIRE ALARM RACEWAY ROUTING. RACEWAYS SHALL NOT BE RUN EXPOSED.
20. THE BASE BUILDING "CONTRACT DRAWINGS" INCLUDING ALL RESPECTIVE ADDENDA & BULLETINS SHALL FORM A PART OF THIS WORK & ALL WORK SHALL BE SUBJECT TO RESPECTIVE PROVISIONS THEREOF.
21. ALL FIRE PROTECTION SYSTEMS ARE SHOWN SCHEMATICALLY. IT IS NOT THE INTENT OF THESE PLANS TO SHOW ALL LISTED COMPONENTS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING SYSTEM PER MANUFACTURER REQUIREMENTS. ALL SYSTEM COMPONENTS SHALL BE FROM A SINGLE MANUFACTURER.
22. THE FIRE ALARM LAYOUT SHOWN ON THE CONTRACT DOCUMENTS ARE TO DEFINE THE DESIGN INTENT FOR COMPETITIVE BIDDING & FOR PRELIMINARY SUBMISSION TO THE AUTHORITIES HAVING JURISDICTION. THE WORK OF THE CONTRACT INCLUDES SHOP DRAWINGS FOR THE ACTUAL INSTALLATION CONDITIONS. THE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER.
23. EGRESS DOOR SWING MAY NOT BE AS SHOWN ON PLANS. LOCATE MANUAL PULL STATIONS ON DOORKNOB SIDE OF DOOR WITHIN 5 FT OF DOOR.
24. THE ACCEPTANCE TESTING OF THE FIRE ALARM SYSTEM SHALL BE INCLUDED IN THE CONTRACT. BEAR THE COST OF ANY FEES FROM THE FIRE DEPARTMENT & FOR ANY OTHER AUTHORITY HAVING JURISDICTION OF MANDATORY FIRE ALARM TESTING & COMMISSIONING.
25. PROVIDE PRIMARY & BATTERY BACKUP POWER & ALL ASSOCIATED WIRING TO ACCOMPLISH WORK.
26. FIRE ALARM SIGNALING SYSTEM MANUAL PULL STATIONS ARE TO BE PROVIDED NOT MORE THAN FIVE FEET AWAY FROM ALL FLOOR EXITS & MOUNTED 48" ABOVE THE FINISHED FLOOR.
27. ALL DEVICES SHALL BE UL/FM LISTED FOR USE WITH THE FIRE ALARM SYSTEM.
28. FIRE ALARM SIGNALING SYSTEM NOTIFYING AUDIO STROBE COVERAGE IS PER NFPA 72 PUBLIC MODE, THE AMERICANS WITH DISABILITIES ACT (ADA), & FIRE CODE FOR SPACING, CANDELA & AUDIO ALARM AMPLITUDE.
29. WHEN THE FIRE ALARM SYSTEM IS ACTIVATED, ALL HORN STROBES SHALL OPERATE IN A SYNCHRONIZED MANNER. ALARM FOR BUILDING EVACUATION AS DESCRIBED PER APPLICABLE CODES & STANDARDS. ALL AUDIO/STROBES SHALL BE ADA APPROVED & SYNCHRONIZED. CANDELA RATING AS NOTED.
30. FIRE ALARM CONTROL UNITS, POWER SUPPLY PANELS, AND OTHER EQUIPMENT SHALL BE PROVIDED WITH POWER CIRCUITS WHICH ARE DEDICATED TO FIRE ALARM EQUIPMENT. CIRCUIT BREAKERS SUPPLYING FIRE ALARM EQUIPMENT SHALL BE LABELED AND PROVIDED WITH MEASURES TO PREVENT INADVERTENT SHUTOFF OF FIRE ALARM EQUIPMENT.

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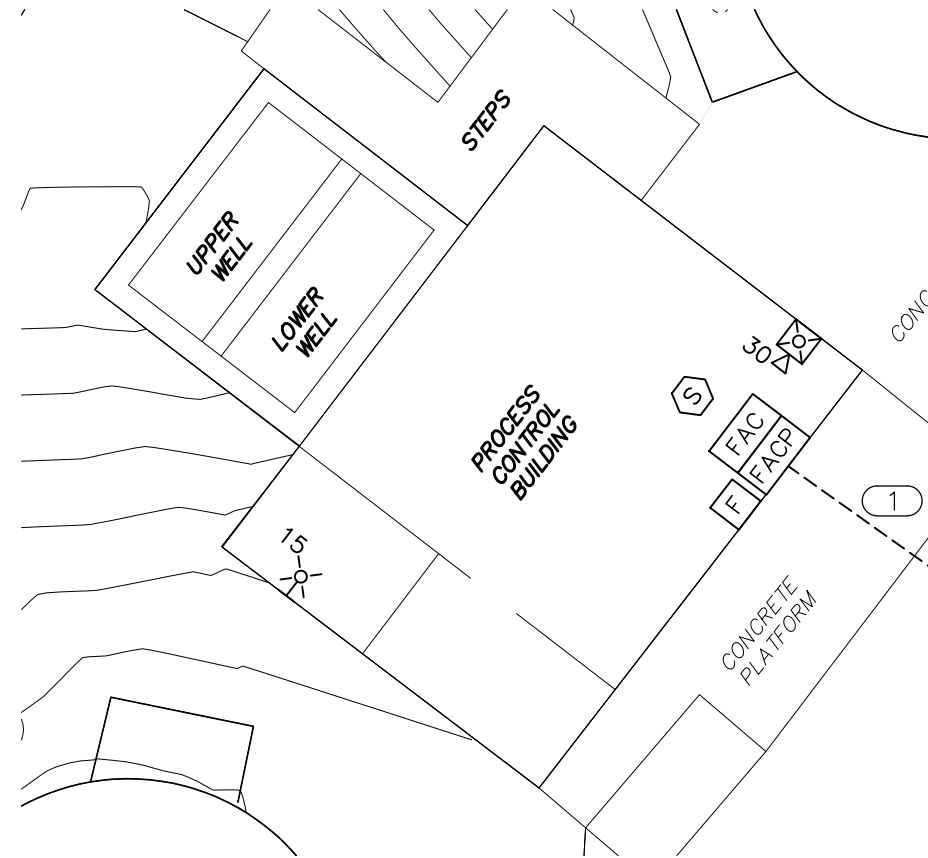
Colliers Engineering & Design

TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 377.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING FIRE ALARM NOTES (2)	DRAWING NUMBER: FA002

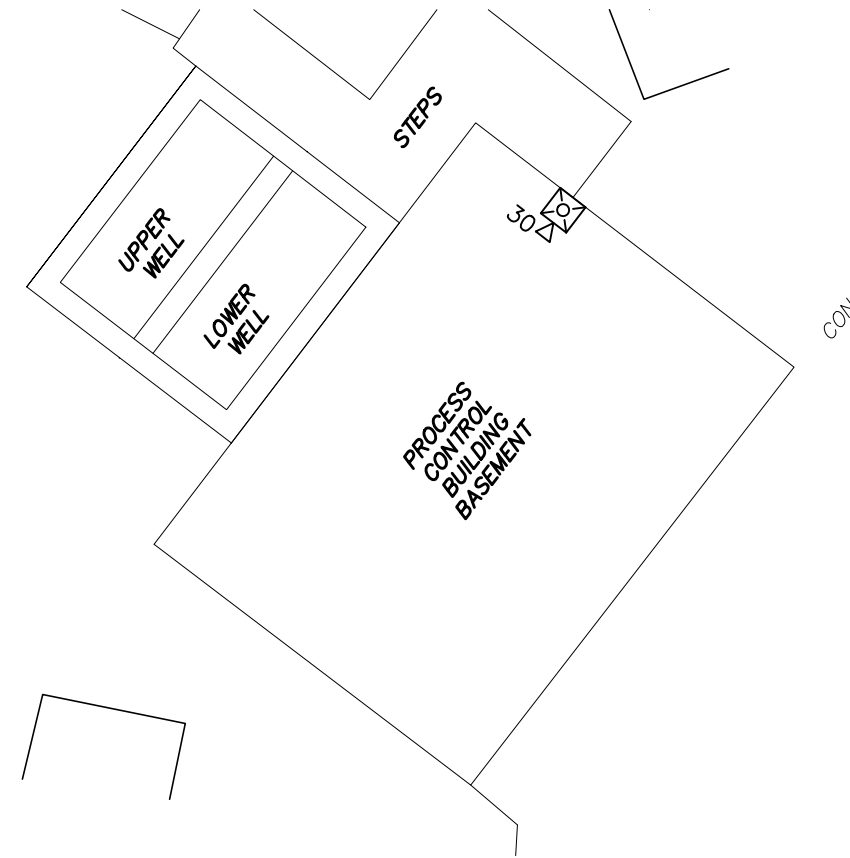


KEYED NOTES:

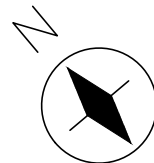
① UNDERGROUND CONDUIT TO MISC. BUILDING FIRE ALARM DEVICES.




① **FIRE ALARM PLAN - GROUND FLOOR**
FA101 SCALE: 1/8" = 1'-0"



② **FIRE ALARM PLAN - BASEMENT**
FA101 SCALE: 1/8" = 1'-0"



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DATE	DESCRIPTION	BY	SYM.

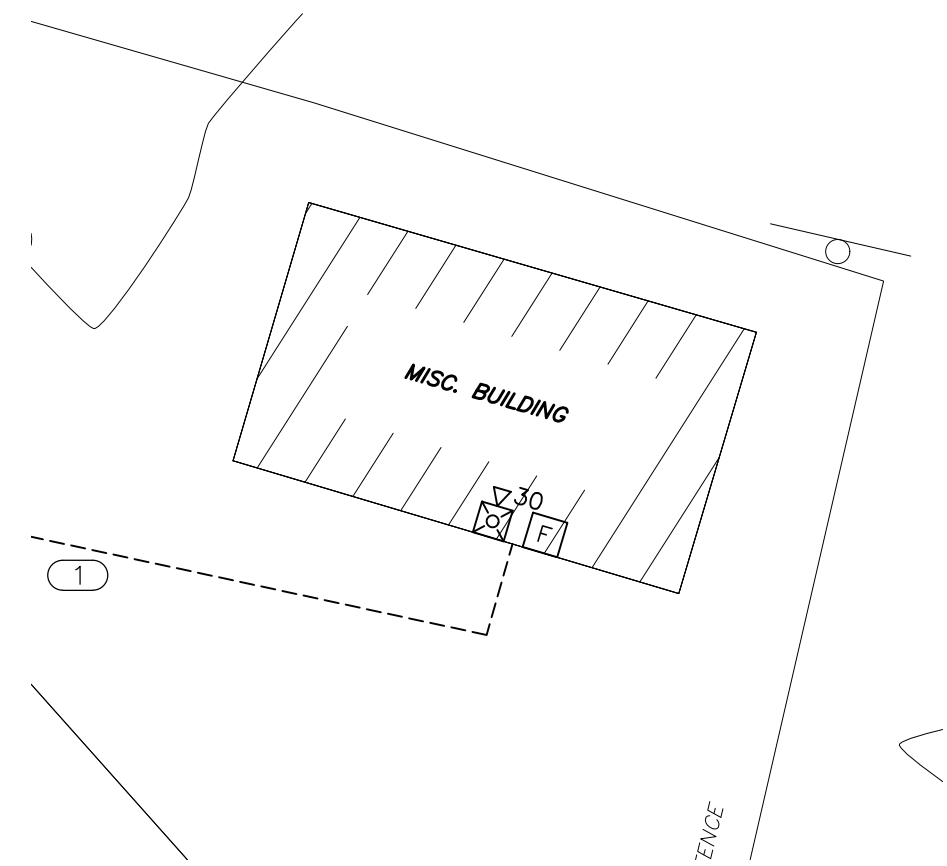


TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 377.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING FIRE ALARM PLAN	DRAWING NUMBER: FA101



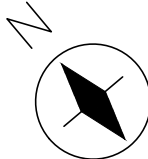
KEYED NOTES:


① UNDERGROUND CONDUIT FROM PUMP HOUSE FIRE ALARM CONTROL PANEL.



① **FIRE ALARM PLAN - MISC. BUILDING**
FA102 SCALE: 1/8" = 1'-0"

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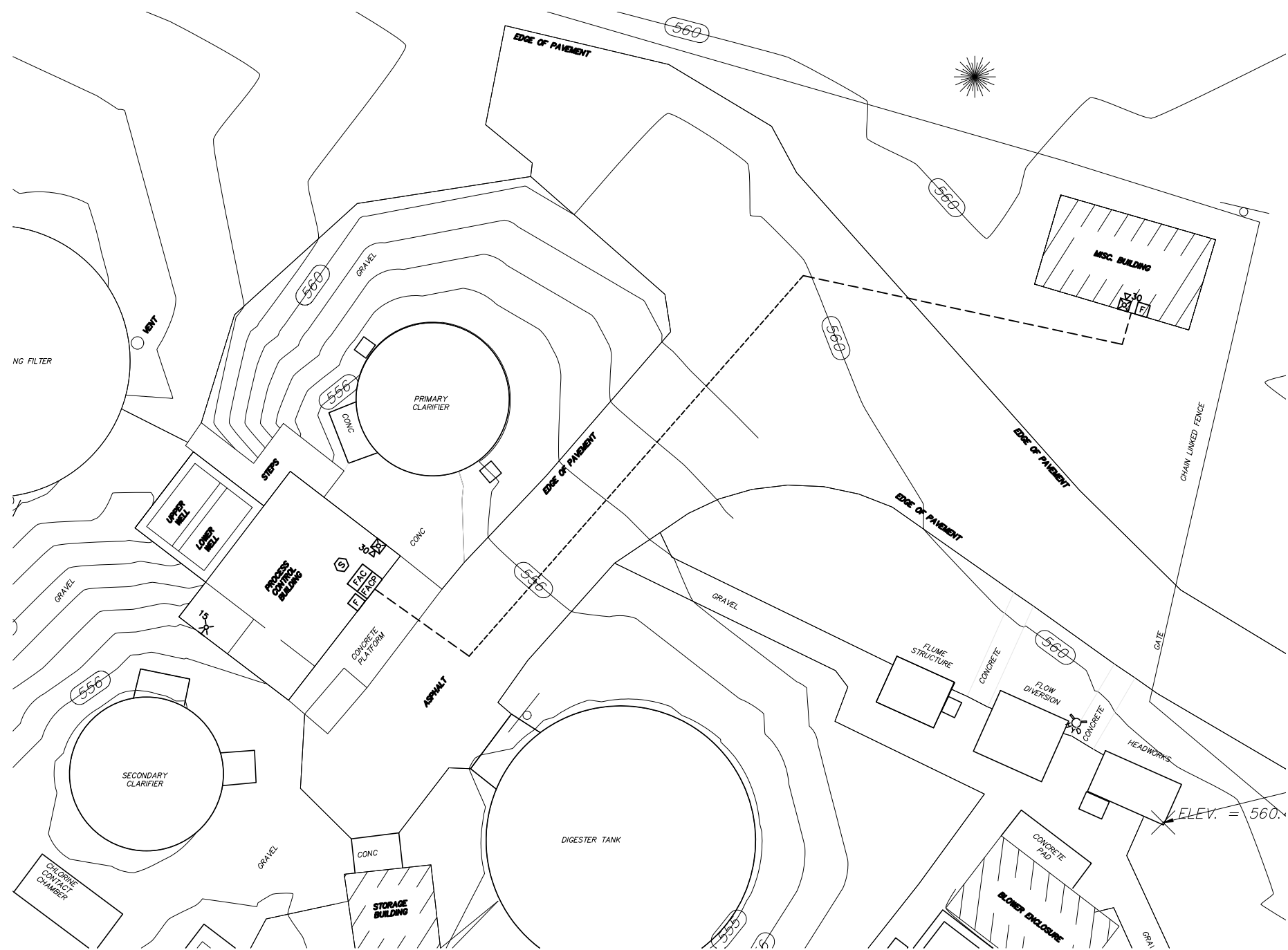
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TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 377.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING FIRE ALARM PLAN	DRAWING NUMBER: FA102



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1 FIRE ALARM PLAN - OVERALL
FA103 SCALE: 1/16" = 1'-0"

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TITLE OF DRAWING FIRE ALARM PLAN	DRAWING NUMBER: FA103



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SYSTEM INPUTS		SYSTEM OUTPUTS																			
		CONTROL UNIT ANNUNCIATION					NOTIFICATION					REQUIRED FIRE SAFETY CONTROL									
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	MANUAL FIRE ALARM BOXES	●	●							●	●	●									
2	SMOKE DETECTORS	●	●							●	●	●									
3	FIRE ALARM AC POWER FAILURE					●	●							●							
4	FIRE ALARM SYSTEM LOW BATTERY					●	●							●							
5	OPEN CIRCUIT					●	●							●							
6	GROUND FAULT					●	●							●							
7	CIRCUIT SHORT					●	●							●							
8																					
9																					
10																					
11																					
12																					
13																					
14																					

1 FIRE ALARM INPUT/OUTPUT MATRIX
FA501 SCALE: NOT TO SCALE

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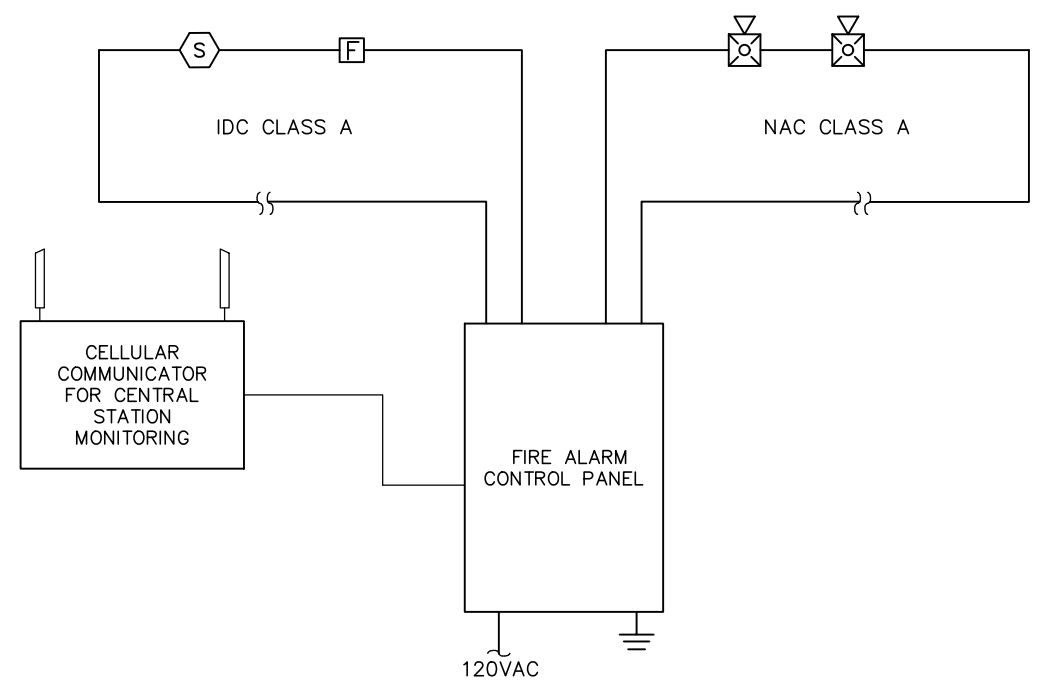
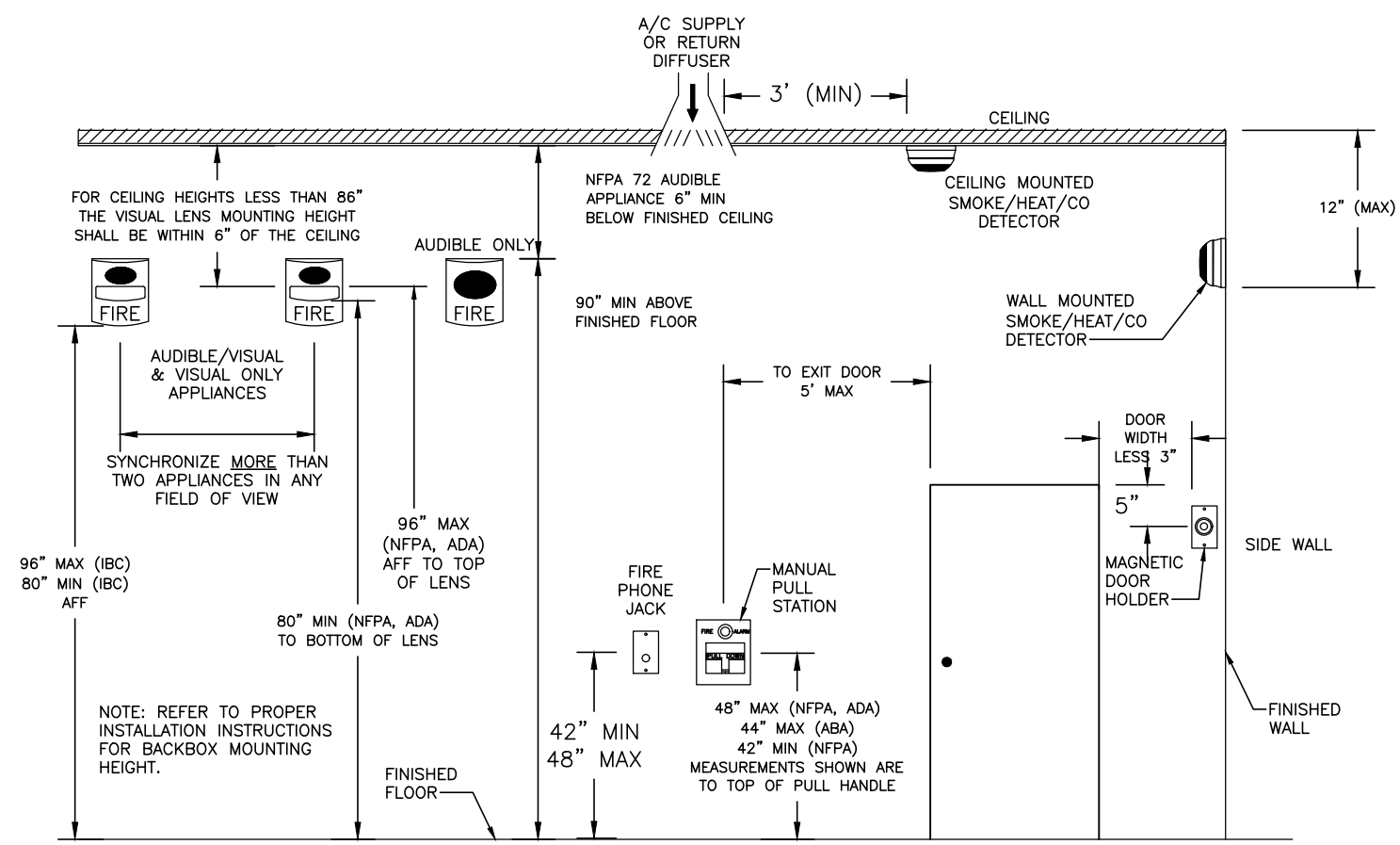
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TITLE OF PROJECT REHABILITATION / REPLACEMENT OF WASTEWATER TREATMENT PLANT AT CLIFTON SPRINGS SERVICE AREA	CONTRACT NUMBER: TAS 26-20A
LOCATION OF PROJECT MP 377.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING FIRE ALARM MATRIX	DRAWING NUMBER: FA501



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1
FA502 SCALE: NOT TO SCALE
TYPICAL FIRE ALARM DEVICE MOUNTING

1
FA502 SCALE: NOT TO SCALE
FIRE ALARM RISER DIAGRAM

- FIRE ALARM RISER DIAGRAM NOTES:**
- REFER TO FLOOR PLAN FOR QUANTITIES & LOCATIONS OF ALL DEVICES.
 - FIRE ALARM SUPPLIER TO PROVIDE FULL SYSTEM RISER DIAGRAM FOR APPROVAL WITH SHOP DRAWING SUBMITTAL.
 - PROVIDE ALL INTERFACE MODULES & HARDWARE REQUIRED TO ACCOMMODATE DEVICES AS SHOWN, INCLUDING ALL APPLIANCES AND DEVICES.
 - COORDINATE EXACT FIRE ALARM SYSTEM WIRING INCLUDING SIZES, QUANTITIES & ROUTING WITH FIRE ALARM MANUFACTURER & SITE CONDITIONS.
 - WIRING INDICATED ON THE RISER DIAGRAM IS DIAGRAMMATIC ONLY & IS NOT INTENDED TO INDICATE ROUTING OR QUANTITIES OF WIRES REQUIRED. PROVIDE WIRING FOR A COMPLETE SYSTEM AS REQUIRED BY SYSTEM MANUFACTURER. ALL DEVICES MAY NOT BE INDICATED ON RISER DIAGRAM. REFER TO FLOOR PLAN FOR QUANTITIES & LOCATIONS OF DEVICES.
 - NOT ALL INTERCONNECTING WIRING IS INDICATED ON RISER DIAGRAM. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - CLASS A WIRING FOR DETECTION DEVICES AND AND NOTIFICATION APPLIANCES.
 - THE FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM IF DESIRED.
 - PROVIDE ALL REQUIRED POWER SUPPLY WIRING ON A DEDICATED CIRCUIT FOR THE FACP.
 - T-TAPPING SHALL NOT BE ALLOWED WITH CLASS A CIRCUITS.
 - COORDINATE 120V POWER AND EXACT LOCATION OF FACP WITH ELECTRICAL CONTRACTOR.

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LOCATION OF PROJECT MP 377.1 EASTBOUND CLIFTON SPRINGS SERVICE AREA	DATE: 4/10/2026
TITLE OF DRAWING FIRE ALARM DETAILS	DRAWING NUMBER: FA502

