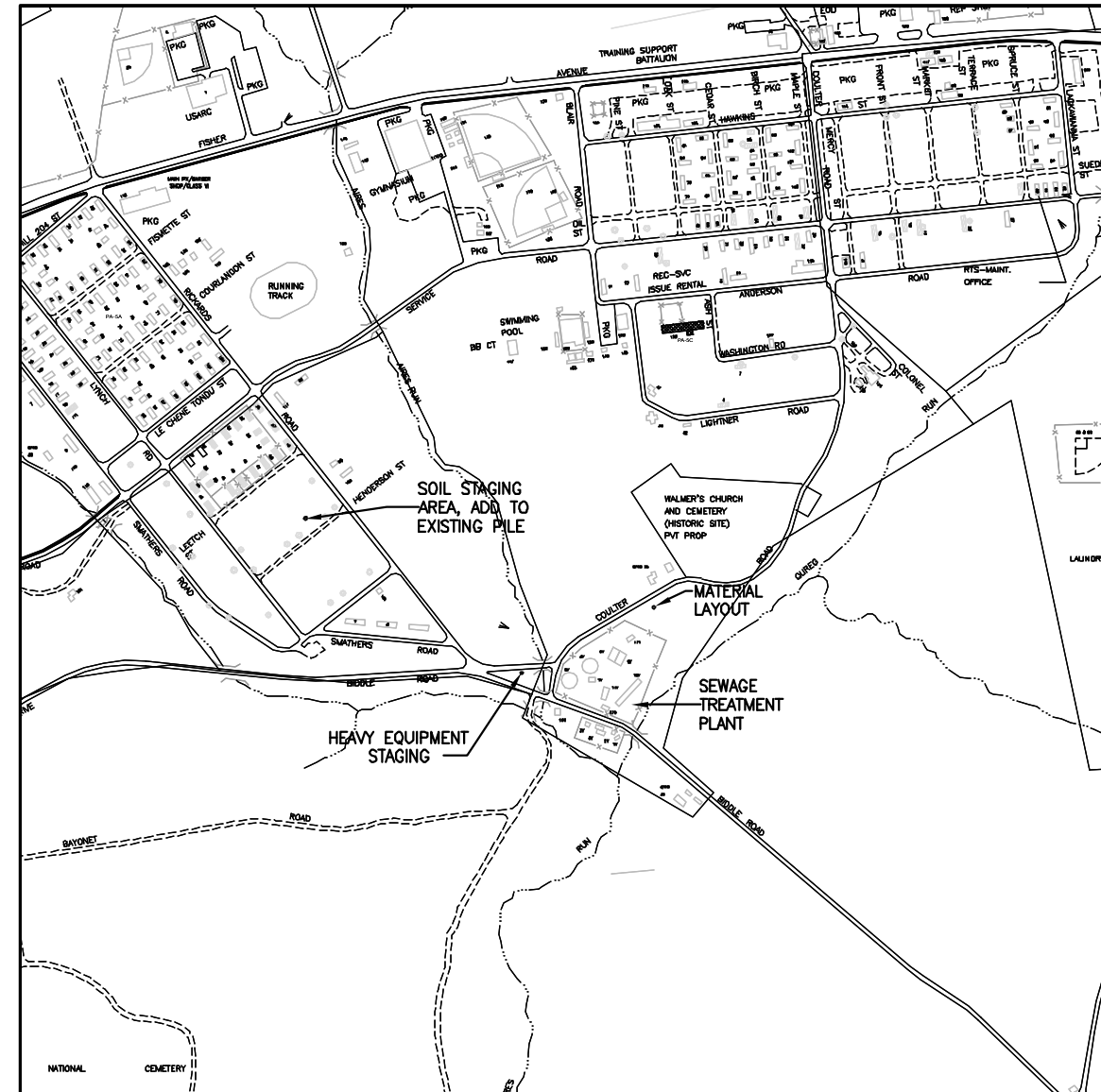


**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS
FORT INDIANTOWN GAP WASTEWATER TREATMENT PLANT -
SBR 1 AND DIGESTER 1 REHABILITATION**

Project No. 42250065

MARCH 31, 2026



NOTE:
1. PROPER E&S CONTROL SHALL BE APPLIED TO ALL STAGING AND LAYOUT AREAS PER SPECIFICATIONS.

ALL DIMENSIONS/EXISTING CONDITIONS SHOWN SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE, ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE GOVERNMENT FOR CLARIFICATIONS. DRAWING SHALL NOT BE SCALED TO OBTAIN DIMENSIONS OR DISTANCES.

VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING
SCALE 1" = 100'
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

G.1.0 - COVER SHEET

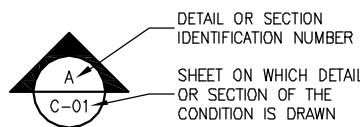
ABBREVIATIONS

A, AMP	AMPERE	E	EAST	K	KIPS (1000 LBS)	PVI	POINT OF VERTICAL INTERSECTION	UG	UNDERGROUND
AB	ANCHOR BOLT, AUGER BOLT	EA	EACH	KO	KNOCK OUT	PVT	POINT OF VERTICAL TANGENT	UNO	UNLESS NOTED OTHERWISE
ABS	AIRBREAK SWITCH	EC	EMPTY CONDUIT	KV	KILOVOLT	QT	QUARRY TILE	V	VENT, VOLT, VALVE
AC	ASPHALTIC CONCRETE	EF	EACH FACE	KVA	KILOVOLT-AMPERE			VAC	VACUUM
ACB	AIR CIRCUIT BREAKER	EL	ELEVATION	KW	KILOWATT	R	RADIUS, RISER, RUBBER SHEATH	VB	VAPOR BARRIER
ACSR	ALUMINUM CONDUCTOR STEEL REINFORCED	ELEC	ELECTRIC	L	LOUVER, LENGTH, LENGTH OF CURVE	RAD	RADIUS	VCP	VITRIFIED CLAY PIPE
ACST	ACOUSTIC	EMER	EMERGENCY	LA	LIGHTNING ARRESTOR	RCP	REINFORCED CONCRETE PIPE	VEH	VEHICLE
AD	AREA DRAIN	EMT	ELECTRICAL METALLIC TUBING	LAV	LAVATORY	RD	ROOF DRAIN, ROAD	VERT	VERTICAL
ADJ	ADJUSTABLE	EQ	EQUAL	LBS	POUNDS	RECP	RECEPTACLE	VEST	VESTIBULE
AL	ALUMINUM	EQUIP	EQUIPMENT	LL	LIVE LOAD	RED	REDUCING	VOL	VOLUME
ALT	ALTERNATE	EW	EACH WAY	LLH	LONG LEG HORIZONTAL	REG	REGULATOR, REGISTER	VWR	VERTICAL WALL REINFORCING
AP	ACCESS PANEL	EXIST	EXISTING	LLV	LONG LEG VERTICAL	REINF	REINFORCEMENT		
APPROX	APPROXIMATE	EXP	EXPANSION, EXPOSED	LT	LIGHT	RELOC	RELOCATED	W	WIDTH, WASTE, WATER, WATT, WEST
ARCH	ARCHITECTURAL	EXP JT	EXPANSION JOINT	LWL	LOW WATER LEVEL	REM	REMOVED	W/O	WITHOUT
ARR	ARRESTOR	EXT	EXTERIOR	MAS	MASONRY	REQD	REQUIRED	WB	WET BULB
ASPH	ASPHALT	F	FAHRENHEIT, FIRE	MATL	MATERIAL	REV	REVISION	WC	WATER CLOSET
AWG	AMERICAN WIRE GAGE	FD	FLOOR DRAIN	MAX	MAXIMUM	RF	ROOF	WD	WIDTH, WINDOW DIMENSION
B	BOTTOM	FDN	FOUNDATION	MBH	THOUSAND BTU PER HOUR	RI	RUBBER INSULATED	WL	WATER LEVEL
BC	BOTTOM OF CURB	FDR	FEEDER	MECH	MECHANICAL	RL	RAIN LEADER	WP	WATERPROOF, WEATHERPROOF
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE	FF	FINISH FLOOR	MET	METAL	RM	ROOM	WS	WATERSTOP
BD	BOARD	FH	FIRE HYDRANT	MH	MANHOLE	RPM	REVOLUTIONS PER MINUTE	WT	WEIGHT
BIT	BITUMINOUS	FIG	FIGURE	MIN	MINIMUM	RTB	RETENTION TREATMENT BASIN	WSO	WATER SHUT OFF
B	BASE LINE	FIN	FINISH	MISC	MISCELLANEOUS	R/W	RIGHT OF WAY	WWM	WELDED WIRE MESH
BLDG	BUILDING	FJ	FELT JOINT	MO	MASONRY OPENING	S	SOUTH, SECTION MODULUS		
BLK	BLOCK	FL	FLOOR, FLASHING	MP	MEDIUM PRESSURE	SAN	SANITARY SEWER		
BM	BEAM, BENCHMARK	FLUOR	FLUORESCENT	MPH	MILES PER HOUR	SATC	SUSPENDED ACOUSTICAL TILE CEILING	XFMR	TRANSFORMER
BMT	BASEMENT	4 WAY	FOUR WAY	MTD	MOUNTED	SCH	SCHEDULE	X-STR	EXTRA STRENGTH
BTU	BRITISH THERMAL UNIT	FPM	FEET PER MINUTE	MTG	MOUNTING	SD	STORM DRAIN	YR	YEAR
C, CND	CONDUIT	FR	FRAME	MWP	MEMBRANE WATERPROOFING	SECT	SECTION		
CAP	CAPACITY	FS	FULL SIZE	N	NORTH	SERV	SERVICE	2:1 SLOPE	2 HORIZONTAL TO 1 VERTICAL
CC	CENTER TO CENTER	FT	FOOT, FEET	NC	NON CORROSIVE	SH	SHEET	1 ON 2 SLOPE	1 VERTICAL ON 2 HORIZONTAL
CEM	CEMENT	FTG	FOOTING	NDC	NOSE DOWN CURB	SH 1 PH	SINGLE PHASE	Δ	DEFLECTION ANGLE
CFM	CUBIC FEET PER MINUTE	GA	GAGE	NEUT	NEUTRAL	SL	SLOPE		
CI	CAST IRON	GALV	GALVANIZED	NIC	NOT IN CONTRACT	SMH	SANITARY MANHOLE		
CIP	CAST IRON PIPE	GL	GLASS	NO	NUMBER	SP	SINGLE POLE		
CIR	CIRCULATING	GOVT	GOVERNMENT	NOM	NOMINAL	SPC	SUSPENDED PLASTER CEILING		
CJ	CONTROL JOINT	GPM	GALLONS PER MINUTE	NTS	NOT TO SCALE	SPDT	SINGLE POLE DOUBLE THROW		
CKT	CIRCUIT	GR	GRADE	OA	OUTSIDE AIR	SPEC	SPECIFICATION		
CL	CENTERLINE	GRD	GROUND	OC	ON CENTER	SPST	SINGLE POLE, SINGLE THROW		
CLG	CLEAR, CLEARANCE	GSU	GLAZED STRUCTURAL UNIT	OCB	OIL CIRCUIT BREAKER	SQ	SQUARE		
CMP	CORRUGATED METAL PIPE	GW	GROUND WATER	OD	OUTSIDE DIAMETER	SSO	SANITARY SEWER OVERFLOW		
CMPA	CORRUGATED METAL PIPE ARCH	GYP	GYPSUM	OPNG	OPENING	SST	STAINLESS STEEL		
CMU	CONCRETE MASONRY UNITS	H, HGT	HEIGHT	OPP	OPPOSITE	ST	STREAM, SINGLE THROW, STREET		
CO	CLEANOUT	HdW	HARDWARE	OVHD, OH	OVERHEAD	STA	STATION		
COL	COLUMN	HGSW	HORN GAP SWITCH	P	PIPE	STD	STANDARD		
CONC	CONCRETE	HORIZ	HORIZONTAL	PB	PULL BOX	STL	STEEL		
COND	CONDUCTOR	HP	HORSEPOWER, HIGH POINT	PC	POINT OF CURVE	STR	STRUCTURAL		
CONN	CONNECTION	HR	HOUR	PF	PROFILE	SUP	SUPPORT		
CONST	CONSTRUCTION	HS	HIGH STRENGTH	PI	POINT OF INTERSECTION	SUSP	SUSPENDED		
CONT	CONTINUOUS	HVY	HEAVY	PIV	POINT INDICATOR VALVE	SW	SWITCH		
CONTR	CONTRACTION	HW	HGT WATER, HEADWALL	PJF	PREFORMED JOINT FILLER	SWBD	SWITCHBOARD		
CONV	CONVERTER	HWL	HIGH WATER LEVEL	PL	PROPERTY LINE	SWGR	SWITCHGEAR		
COP, CU	COPPER	HZ	HERTZ	PL	PLATE	T	TILE, TOP, TANGENT		
CP	(NON-REINFORCED) CONCRETE PIPE	I	INLET, MOMENT OF INERTIA	PLYWD	PLYWOOD	T & B	TOP AND BOTTOM		
CRS	COLD-ROLLED STEEL	ID	INSIDE DIAMETER, INSIDE DIMENSION	PNL	PANEL	TC	TOP OF CURB		
CSK	COUNTER SUNK	IE	INVERT ELEVATION	PRELIM	PRELIMINARY	TE	TOP ELEVATION		
CT	CERAMIC TILE, CURRENT TRANSFORMER	IN	INCH	PRESS	PRESSURE	TEL	TELEPHONE		
CTR	CENTER	INSUL	INSULATION, INSULATED	PRIM	PRIMARY	TEMP	TEMPORARY		
CW	COLD WATER	INT	INTERIOR	PROP	PROPOSED	TERM	TERMINAL		
CWB	CAPILLARY WATER BARRIER	INV	INVERT	PS	PULL SWITCH	TF	TOP OF FOOTING		
D	DEPTH, DEEP, DEGREE OF CURVATURE, DRAIN	JB	JUNCTION BOX	PSF	POUNDS PER SQUARE FOOT	3/C	THREE CONDUCTOR		
DB	DRY BULB, DECIBEL, DIRECT BURIAL	JCT	JUNCTION	PSI	POUNDS PER SQUARE INCH	3/P	THREE POLE		
DET	DETAIL	JST	JOIST	PT	POINT, POINT OF TANGENT	3 WAY	THREE WAY		
DH	DRILL HOLE	JT	JOINT	PVC	POINT OF VERTICAL CURVE, POLYVINYL CHLORIDE	TH	TOTAL HEAD (PUMPS)		
DI	DUCTILE IRON					THRSLD	THRESHOLD		
DIA	DIAMETER					THRU	THROUGH		
DIM	DIMENSION					TS	TOP OF STEEL, TOP OF STONE, TOP OF SLAB		
DICL	DUCTILE IRON, CEMENT LINED					TW	TOP OF WALL		
DL	DEAD LOAD					TYP	TYPICAL		
DN	DOWN								
DO	DITTO								
D PNL	DISTRIBUTION PANEL								
DS	DOWNSPOUT								
DWD	DRINKING WATER DISPENSER								
DWG	DRAWING								

SYMBOLS

○ FE	FIRE EXTINGUISHER
	CENTRIFUGAL PUMP (WET PIT)
⋮	WATER STOP
▲	SOIL BORING
○	NEW OR REHABILITATED MANHOLE
○	EXISTING MANHOLE
	FIRE/ YARD HYDRANT
—x—x—x—	FENCE

DETAIL SYMBOLS



MATERIALS

	WOOD IN SECTION		BRICK
	WOOD FINISH		CMU
	GSU & CT		PLYWOOD
	CONCRETE		INSULATION
	PLAS CEM & GROUT		EARTH
	METAL IN SECTION		ROCK
	RIP RAP		ASPHALT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS

FORT INDIANTOWN GAP WASTEWATER TREATMENT PLANT -
SBR 1 AND DIGESTER 1 REHABILITATION

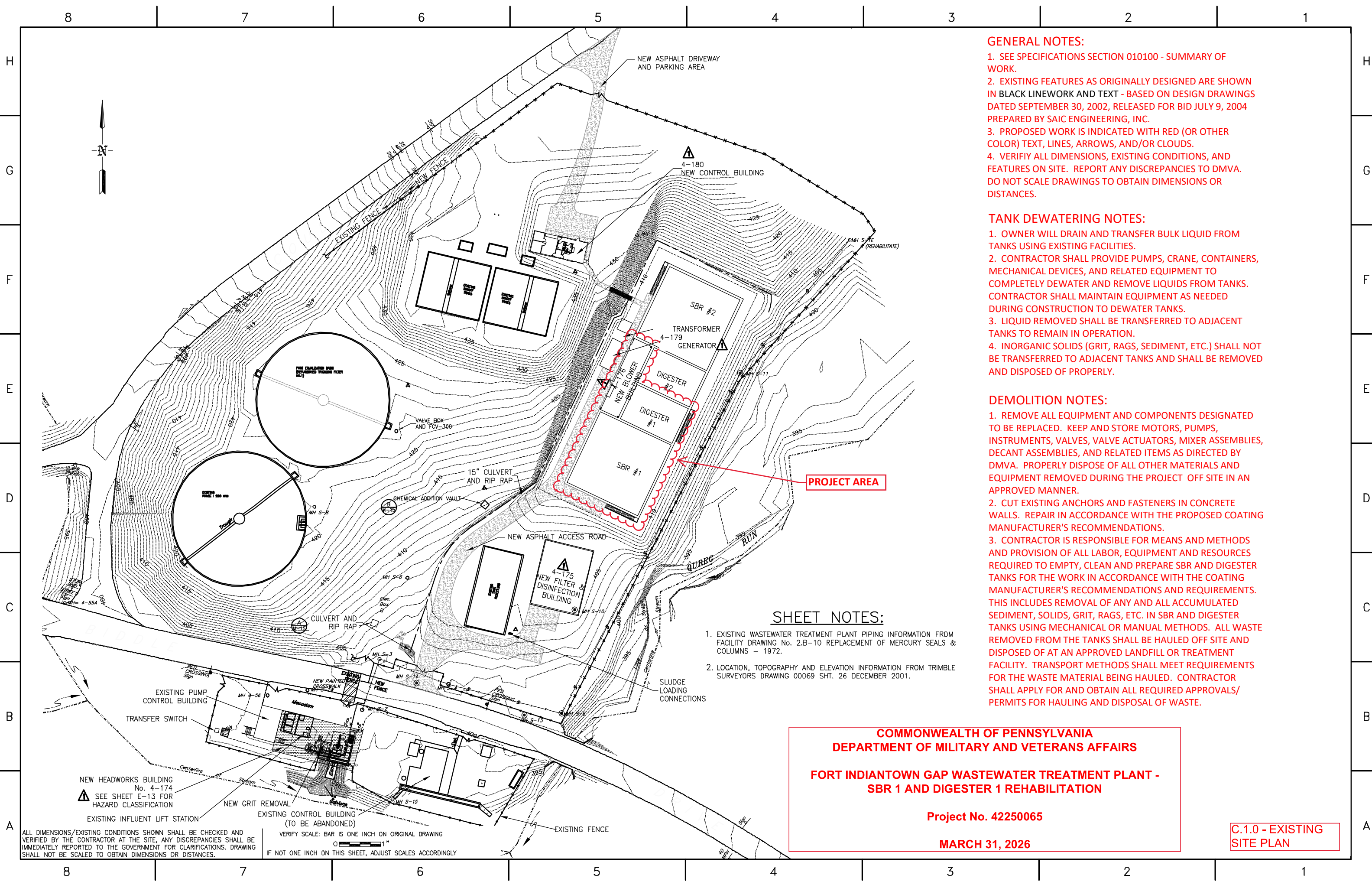
Project No. 42250065

MARCH 31, 2026

ALL DIMENSIONS/EXISTING CONDITIONS SHOWN SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE, ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE GOVERNMENT FOR CLARIFICATIONS. DRAWING SHALL NOT BE SCALED TO OBTAIN DIMENSIONS OR DISTANCES.

VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING

 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



GENERAL NOTES:

1. SEE SPECIFICATIONS SECTION 010100 - SUMMARY OF WORK.
2. EXISTING FEATURES AS ORIGINALLY DESIGNED ARE SHOWN IN BLACK LINEWORK AND TEXT - BASED ON DESIGN DRAWINGS DATED SEPTEMBER 30, 2002, RELEASED FOR BID JULY 9, 2004 PREPARED BY SAIC ENGINEERING, INC.
3. PROPOSED WORK IS INDICATED WITH RED (OR OTHER COLOR) TEXT, LINES, ARROWS, AND/OR CLOUDS.
4. VERIFY ALL DIMENSIONS, EXISTING CONDITIONS, AND FEATURES ON SITE. REPORT ANY DISCREPANCIES TO DMVA. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS OR DISTANCES.

TANK DEWATERING NOTES:

1. OWNER WILL DRAIN AND TRANSFER BULK LIQUID FROM TANKS USING EXISTING FACILITIES.
2. CONTRACTOR SHALL PROVIDE PUMPS, CRANE, CONTAINERS, MECHANICAL DEVICES, AND RELATED EQUIPMENT TO COMPLETELY DEWATER AND REMOVE LIQUIDS FROM TANKS. CONTRACTOR SHALL MAINTAIN EQUIPMENT AS NEEDED DURING CONSTRUCTION TO DEWATER TANKS.
3. LIQUID REMOVED SHALL BE TRANSFERRED TO ADJACENT TANKS TO REMAIN IN OPERATION.
4. INORGANIC SOLIDS (GRIT, RAGS, SEDIMENT, ETC.) SHALL NOT BE TRANSFERRED TO ADJACENT TANKS AND SHALL BE REMOVED AND DISPOSED OF PROPERLY.

DEMOLITION NOTES:

1. REMOVE ALL EQUIPMENT AND COMPONENTS DESIGNATED TO BE REPLACED. KEEP AND STORE MOTORS, PUMPS, INSTRUMENTS, VALVES, VALVE ACTUATORS, MIXER ASSEMBLIES, DECANT ASSEMBLIES, AND RELATED ITEMS AS DIRECTED BY DMVA. PROPERLY DISPOSE OF ALL OTHER MATERIALS AND EQUIPMENT REMOVED DURING THE PROJECT OFF SITE IN AN APPROVED MANNER.
2. CUT EXISTING ANCHORS AND FASTENERS IN CONCRETE WALLS. REPAIR IN ACCORDANCE WITH THE PROPOSED COATING MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS AND PROVISION OF ALL LABOR, EQUIPMENT AND RESOURCES REQUIRED TO EMPTY, CLEAN AND PREPARE SBR AND DIGESTER TANKS FOR THE WORK IN ACCORDANCE WITH THE COATING MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. THIS INCLUDES REMOVAL OF ANY AND ALL ACCUMULATED SEDIMENT, SOLIDS, GRIT, RAGS, ETC. IN SBR AND DIGESTER TANKS USING MECHANICAL OR MANUAL METHODS. ALL WASTE REMOVED FROM THE TANKS SHALL BE HAULED OFF SITE AND DISPOSED OF AT AN APPROVED LANDFILL OR TREATMENT FACILITY. TRANSPORT METHODS SHALL MEET REQUIREMENTS FOR THE WASTE MATERIAL BEING HAULED. CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL REQUIRED APPROVALS/ PERMITS FOR HAULING AND DISPOSAL OF WASTE.

SHEET NOTES:

1. EXISTING WASTEWATER TREATMENT PLANT PIPING INFORMATION FROM FACILITY DRAWING No. 2.B-10 REPLACEMENT OF MERCURY SEALS & COLUMNS - 1972.
2. LOCATION, TOPOGRAPHY AND ELEVATION INFORMATION FROM TRIMBLE SURVEYORS DRAWING 00069 SHT. 26 DECEMBER 2001.

**COMMONWEALTH OF PENNSYLVANIA
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**FORT INDIANTOWN GAP WASTEWATER TREATMENT PLANT -
SBR 1 AND DIGESTER 1 REHABILITATION**

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MARCH 31, 2026

C.1.0 - EXISTING
SITE PLAN

NEW HEADWORKS BUILDING
No. 4-174
SEE SHEET E-13 FOR
HAZARD CLASSIFICATION

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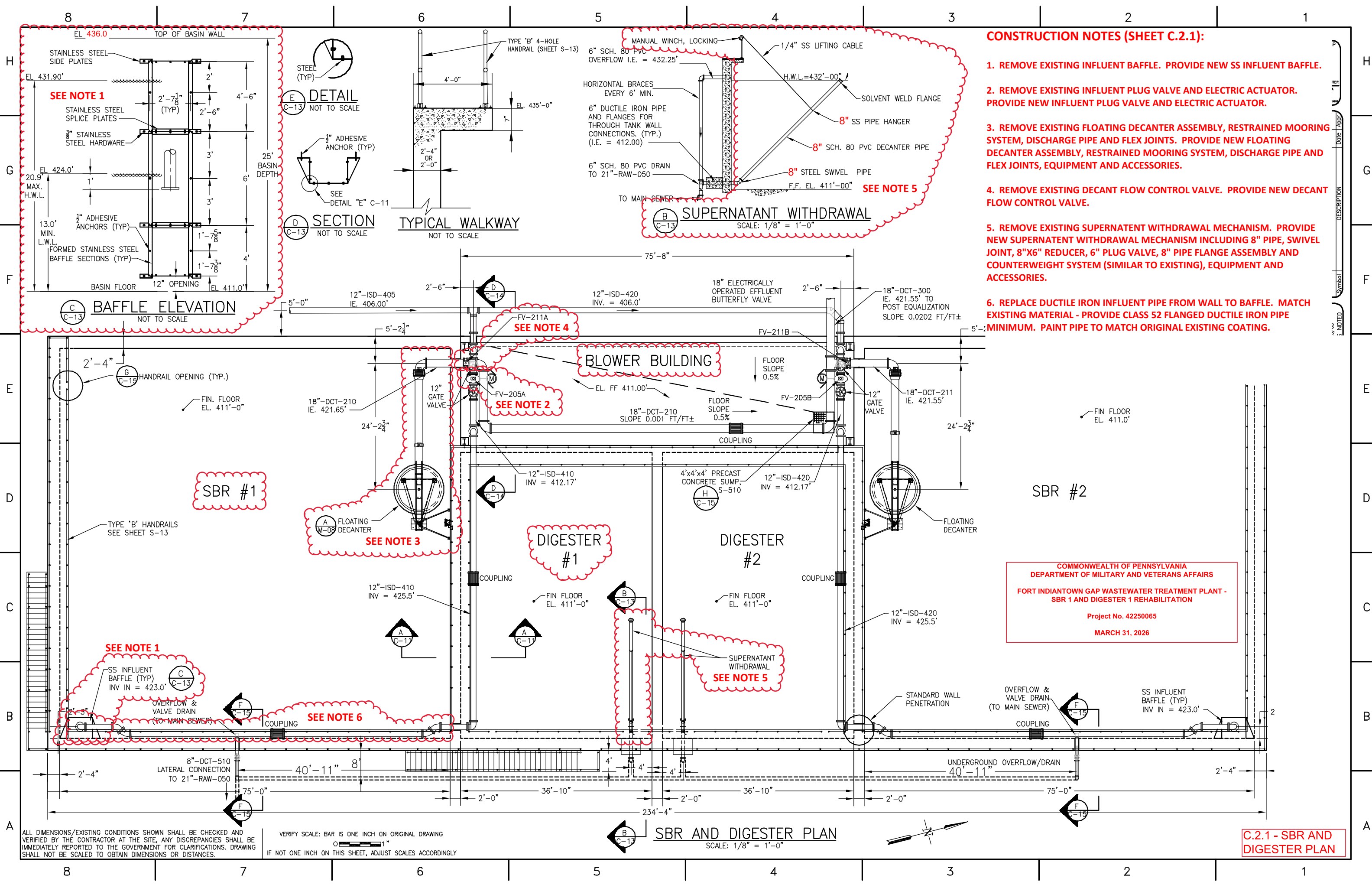
VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING
1" = 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

H
G
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H
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8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1



CONSTRUCTION NOTES (SHEET C.2.1):

1. REMOVE EXISTING INFLUENT BAFFLE. PROVIDE NEW SS INFLUENT BAFFLE.
2. REMOVE EXISTING INFLUENT PLUG VALVE AND ELECTRIC ACTUATOR. PROVIDE NEW INFLUENT PLUG VALVE AND ELECTRIC ACTUATOR.
3. REMOVE EXISTING FLOATING DECANTER ASSEMBLY, RESTRAINED MOORING SYSTEM, DISCHARGE PIPE AND FLEX JOINTS. PROVIDE NEW FLOATING DECANTER ASSEMBLY, RESTRAINED MOORING SYSTEM, DISCHARGE PIPE AND FLEX JOINTS, EQUIPMENT AND ACCESSORIES.
4. REMOVE EXISTING DECANT FLOW CONTROL VALVE. PROVIDE NEW DECANT FLOW CONTROL VALVE.
5. REMOVE EXISTING SUPERNATANT WITHDRAWAL MECHANISM. PROVIDE NEW SUPERNATANT WITHDRAWAL MECHANISM INCLUDING 8" PIPE, SWIVEL JOINT, 8"x6" REDUCER, 6" PLUG VALVE, 8" PIPE FLANGE ASSEMBLY AND COUNTERWEIGHT SYSTEM (SIMILAR TO EXISTING), EQUIPMENT AND ACCESSORIES.
6. REPLACE DUCTILE IRON INFLUENT PIPE FROM WALL TO BAFFLE. MATCH EXISTING MATERIAL - PROVIDE CLASS 52 FLANGED DUCTILE IRON PIPE MINIMUM. PAINT PIPE TO MATCH ORIGINAL EXISTING COATING.

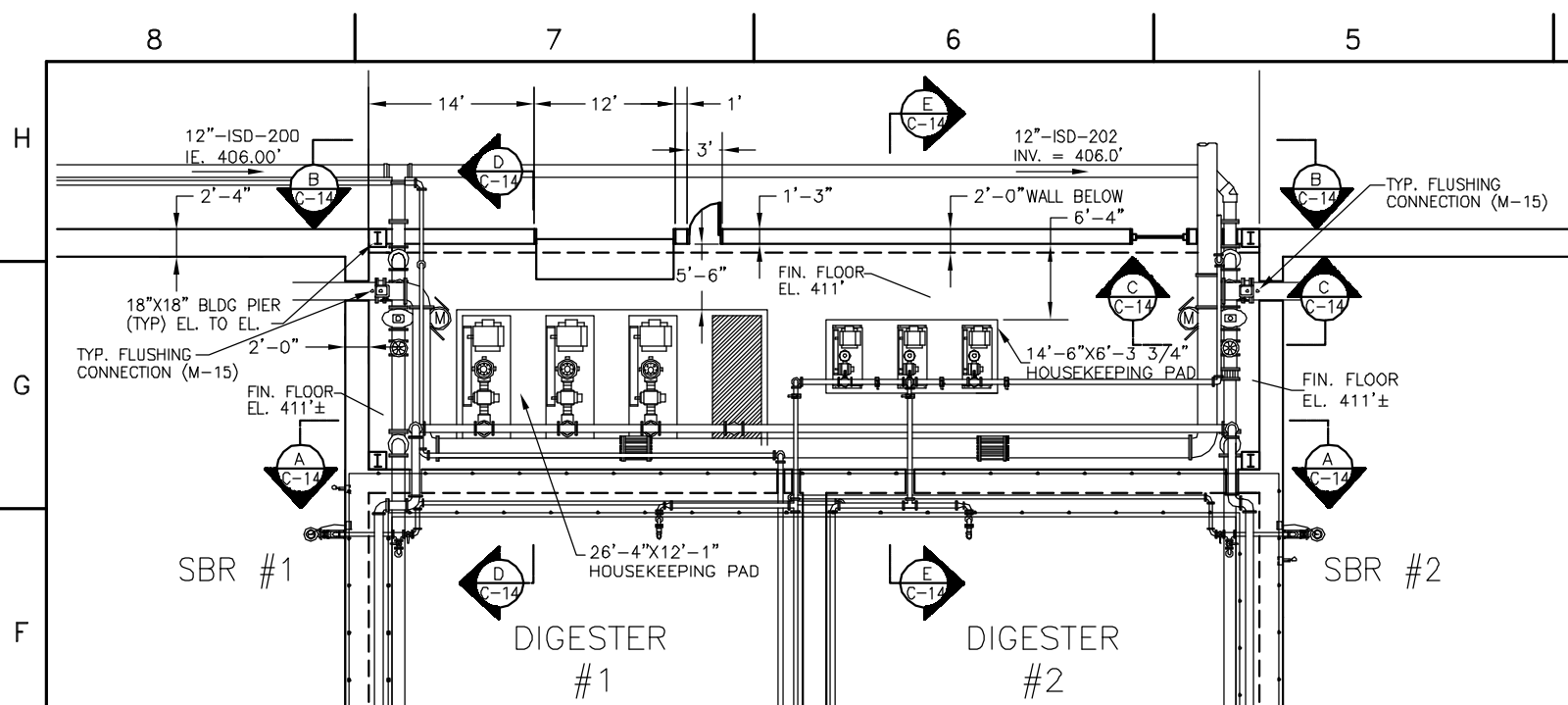
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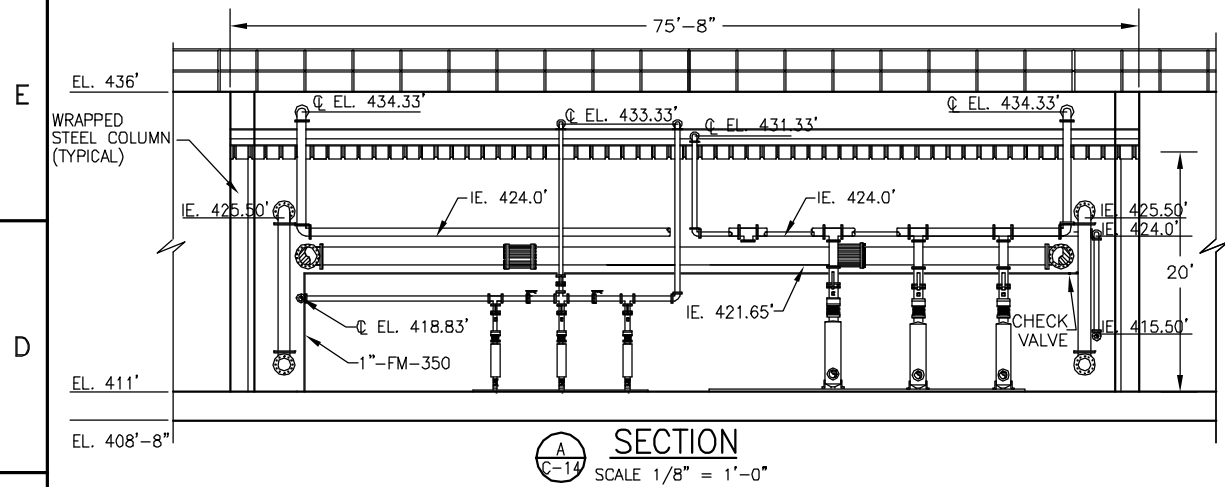
VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING
SCALE: 1" = 1'-0"

SBR AND DIGESTER PLAN
SCALE: 1/8" = 1'-0"

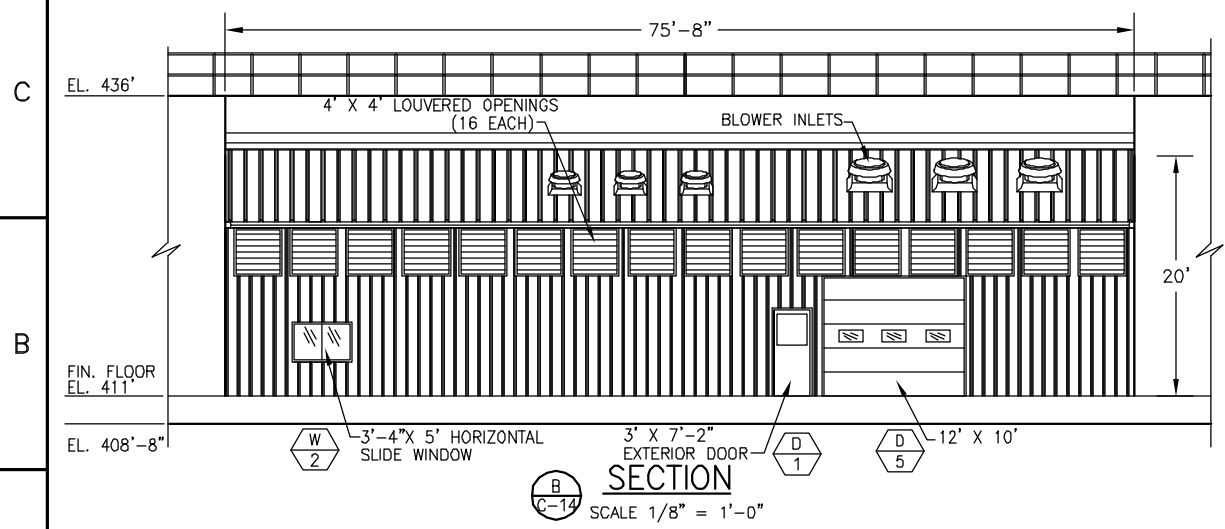
C.2.1 - SBR AND DIGESTER PLAN



BLOWER BUILDING PLAN
SCALE: 1/8"=1"

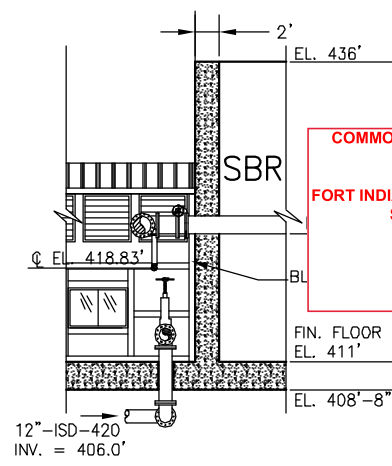


SECTION A-A
SCALE 1/8" = 1'-0"

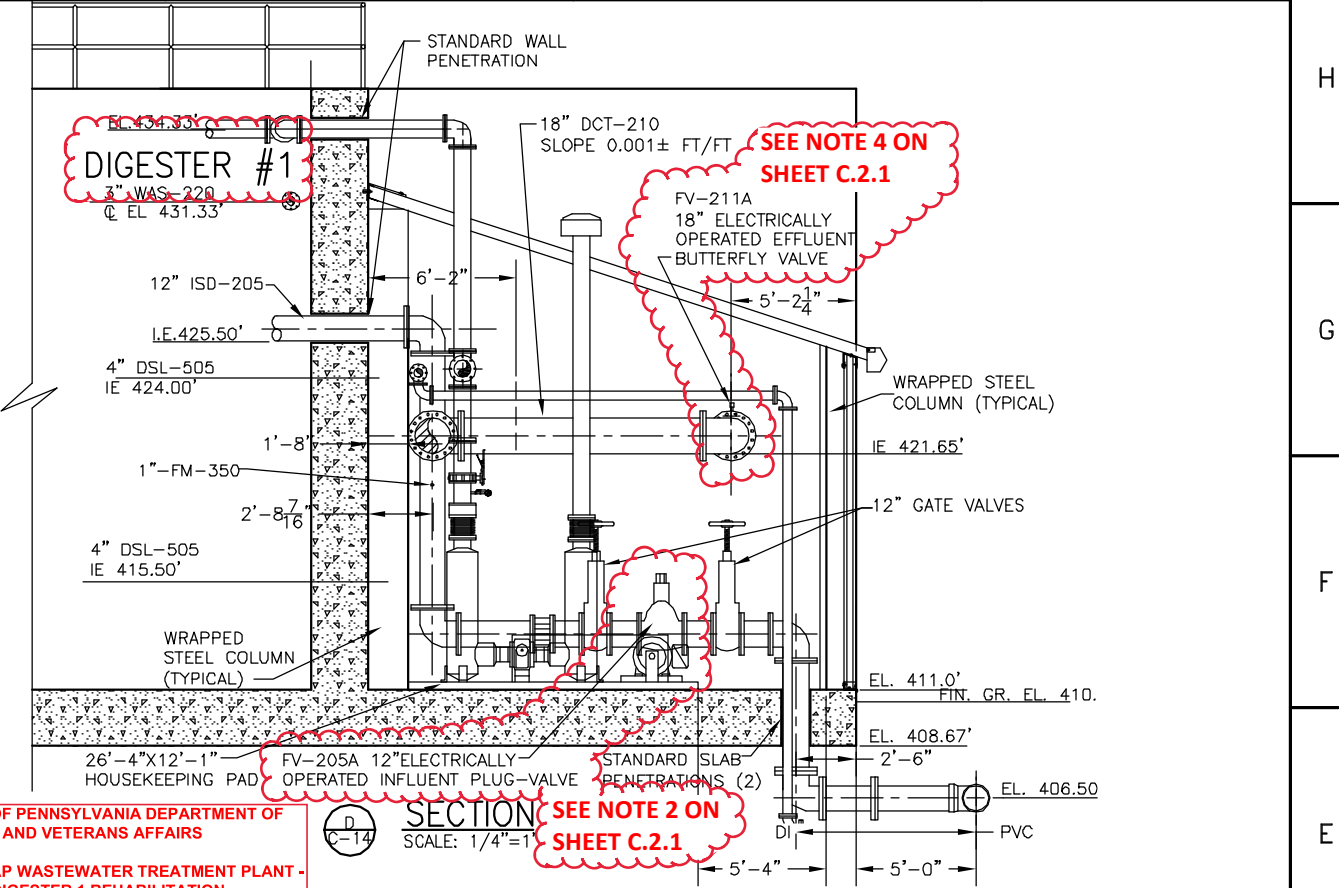


SECTION B-B
SCALE 1/8" = 1'-0"

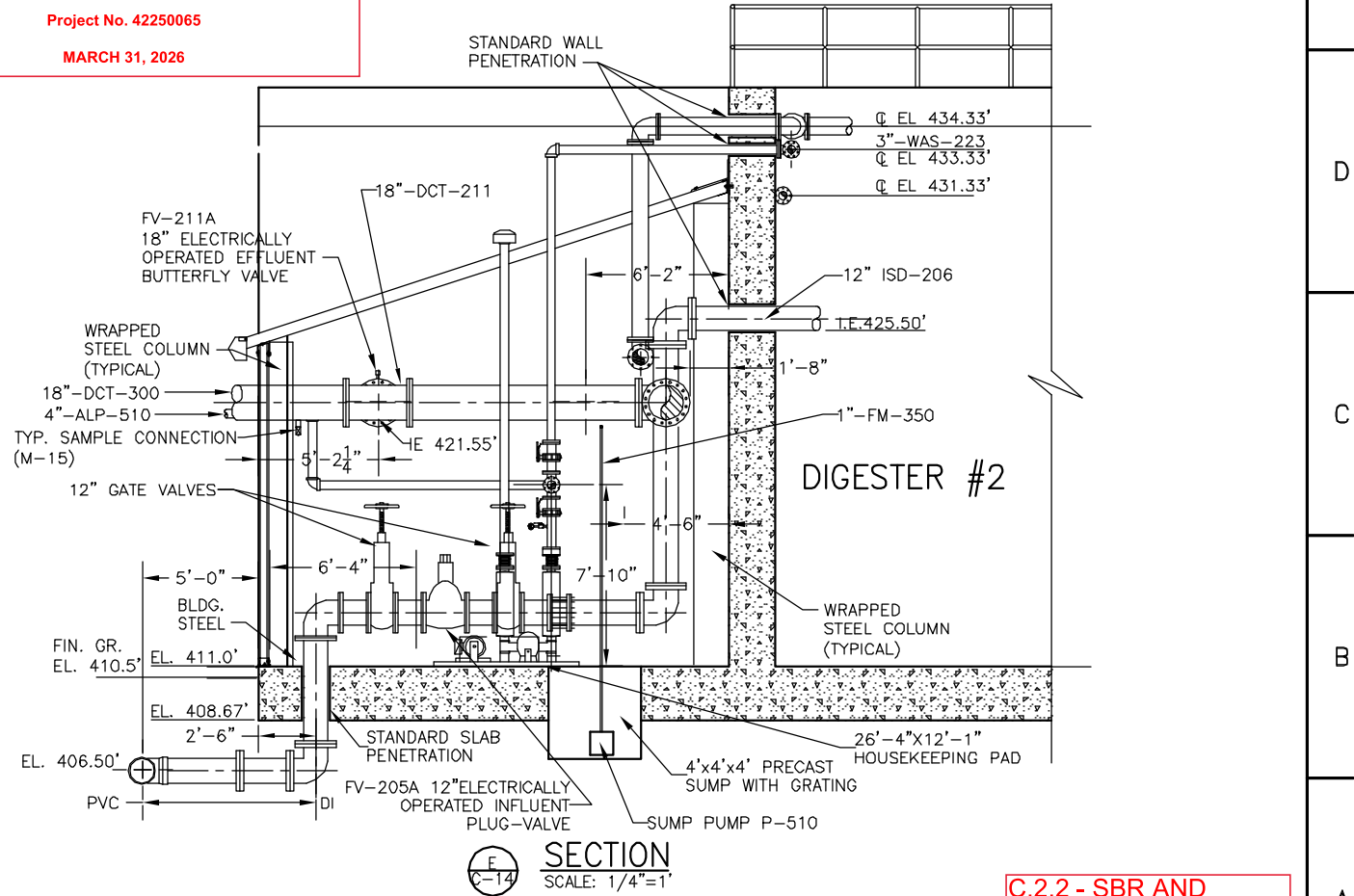
NOTE:
SEE DOOR AND WINDOW SCHEDULE, SHEET C-07.



SECTION C-C
SCALE 1/8" = 1'-0"



SECTION D-D
SCALE: 1/4"=1"



SECTION E-E
SCALE: 1/4"=1"

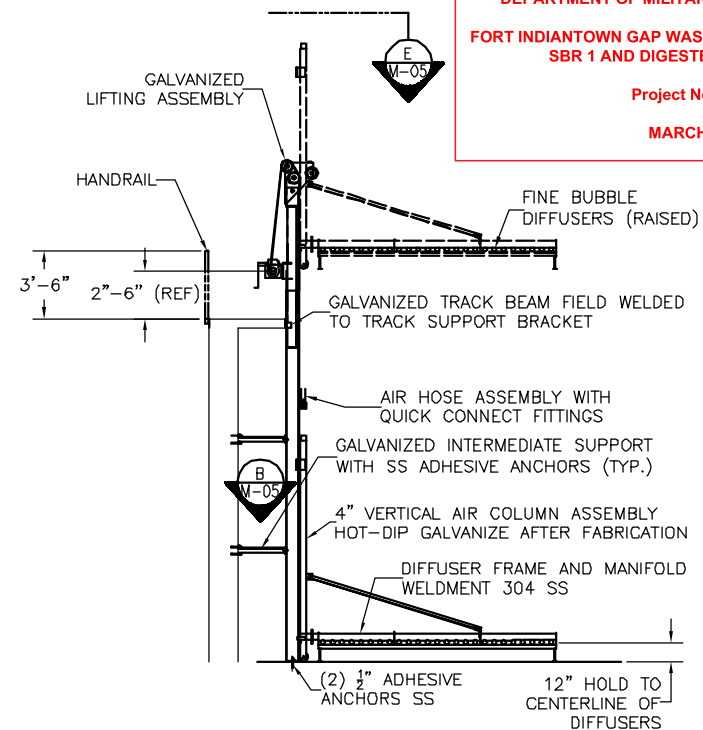
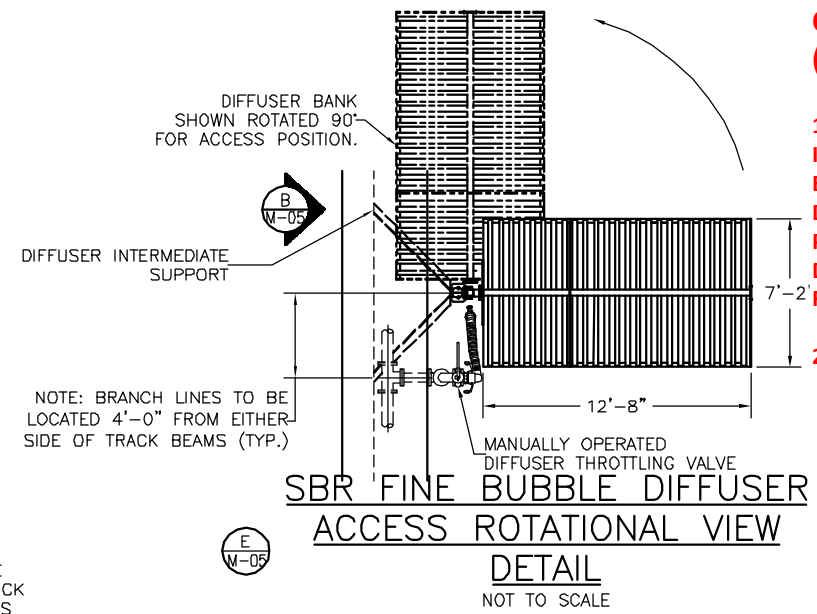
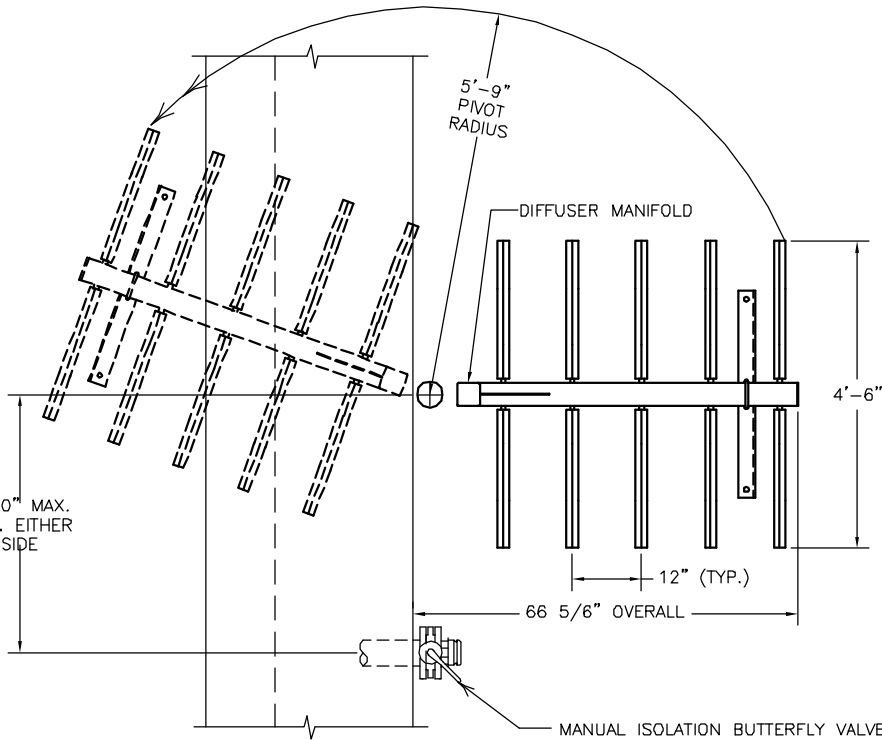
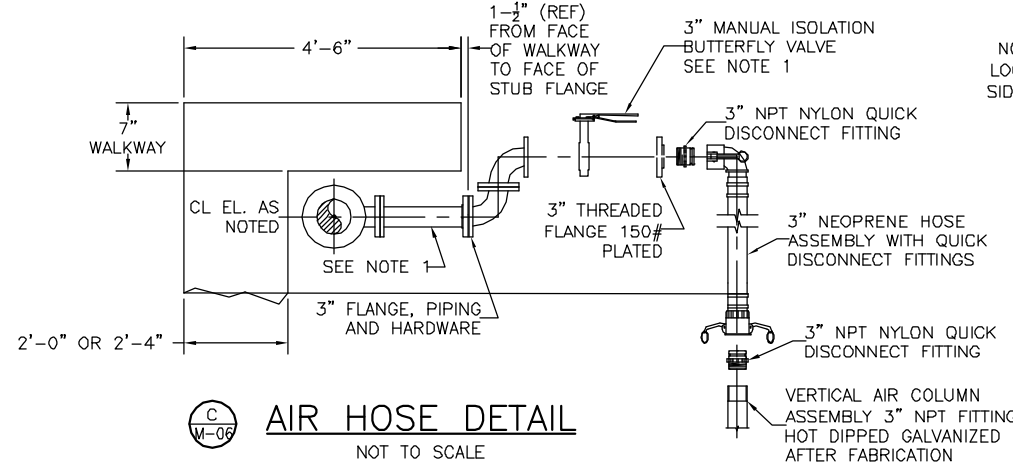
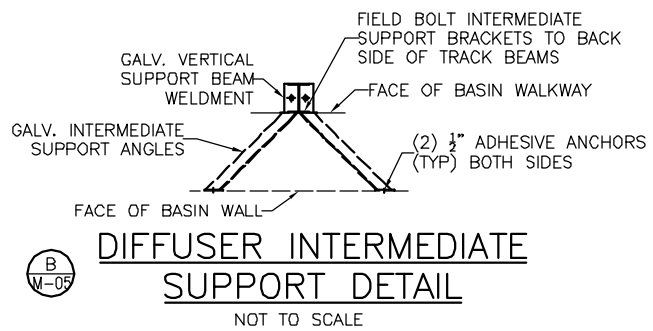
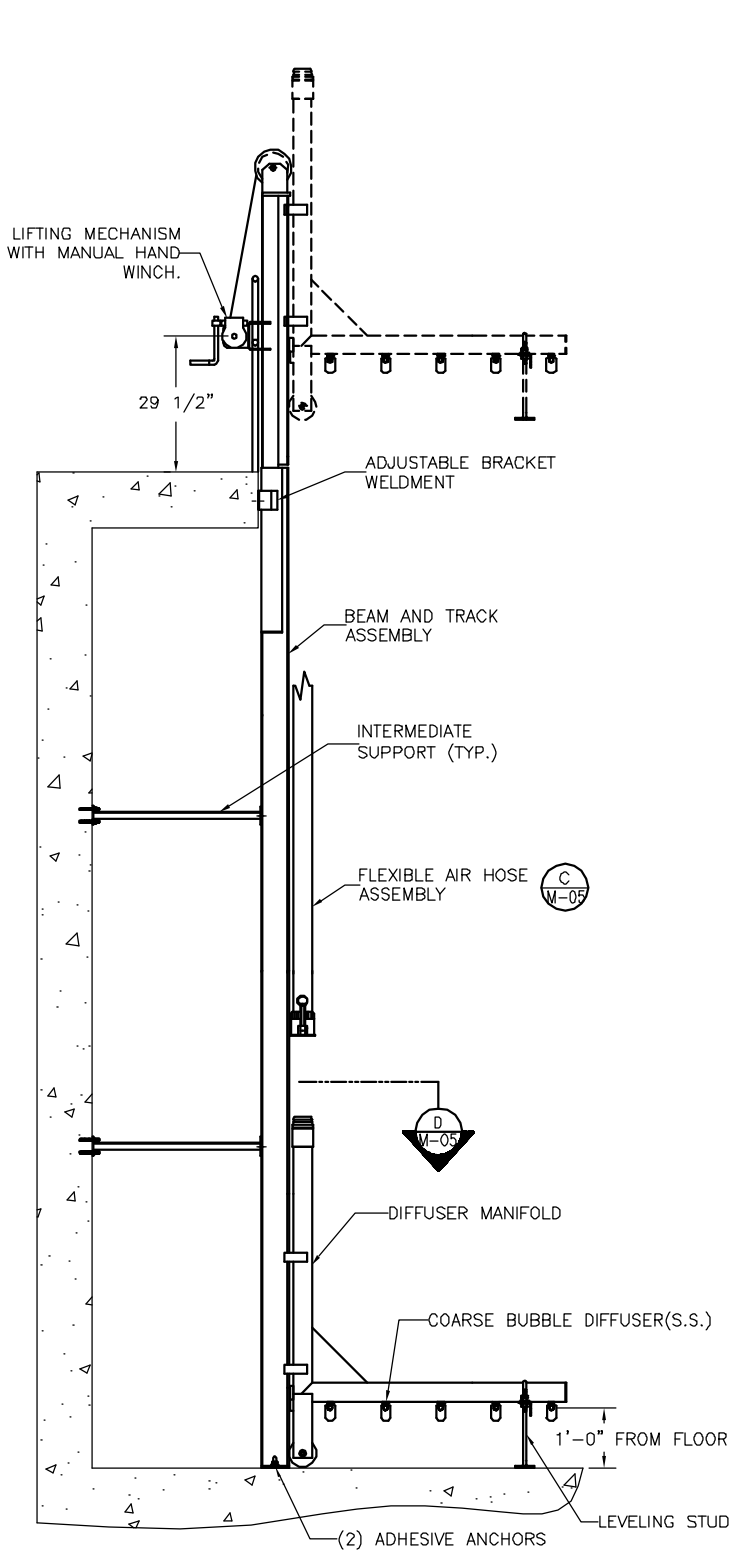
SHEET NOTES:

1. AS SPECIFIED IN SPECIFICATION 13120 BUILDING WILL BE PROCURED AS A METAL BUILDING SYSTEM.
2. THE METAL BUILDING FOUNDATION SHOWN ON THESE DRAWINGS ARE ESTIMATED FOR THE BUILDING AND ARE TO BE USED AS A GUIDE FOR THE BUILDING SUPPLIED.
3. THE CONTRACTOR WILL NOT VARY FROM THE BASIC CRITERIA, VAPOR BARRIER, MINIMUM DEPTH OF FOOTING, AND COLUMN THRUST RESISTING SYSTEM.
4. BUILDING FOOTINGS WILL BE SIZED FOR AN ALLOWABLE SOIL BEARING VALUE, MINIMUM BOTTOM OF FOOTING DEPTH, AND SAFETY FACTOR AS INDICATED IN THE SPECIFICATIONS.
5. FOUNDATION DESIGN WILL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER AS SPECIFIED AND WILL BE SUBMITTED FOR APPROVAL AS PART OF THE METAL BUILDING SYSTEM DESIGN ANALYSIS.

VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING
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C.2.2 - SBR AND DIGESTER SECTIONS

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF
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MARCH 31, 2026



CONSTRUCTION NOTES (SHEET C.2.3):

1. THIS SHEET PROVIDED FOR INFORMATION ONLY. FIELD VERIFY EXISTING EQUIPMENT INSTALLATION DETAILS AND COORDINATE PROPOSED EQUIPMENT DIMENSIONS, LAYOUT, AND FABRICATION.
2. SEE NOTE 3 AND 4 SHEET C.3.1.

COMMONWEALTH OF PENNSYLVANIA
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NOTE:

1. HANDRAILING MUST BE REMOVABLE TO ALLOW ACCESS OF DIFFUSERS.
2. A 1' OPENING ON BOTH SIDES OF THE CENTER LINE OF BEAM REQUIRED TO ALLOW CLEARANCE FOR WINCH.
3. DIFFUSER ASSEMBLY SHOWN IN ACCESS POSITION. ASSEMBLY CAN ROTATE FOR MAINTENANCE.

C.2.3 - SBR AND DIGESTER DETAILS

ALL DIMENSIONS/EXISTING CONDITIONS SHOWN SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE, ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE GOVERNMENT FOR CLARIFICATIONS. DRAWING SHALL NOT BE SCALED TO OBTAIN DIMENSIONS OR DISTANCES.

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NOTE:

1. ALL OBSTRUCTIONS MUST BE LOCATED OUTSIDE THE 5'-9" PIVOT RADIUS TO ALLOW ROTATION FOR MAINTENANCE.
2. ALL HANDRAILING BY DIFFUSER RACK MUST BE REMOVABLE FOR PIVOTING.

CONSTRUCTION NOTES (SHEET C.3.1):

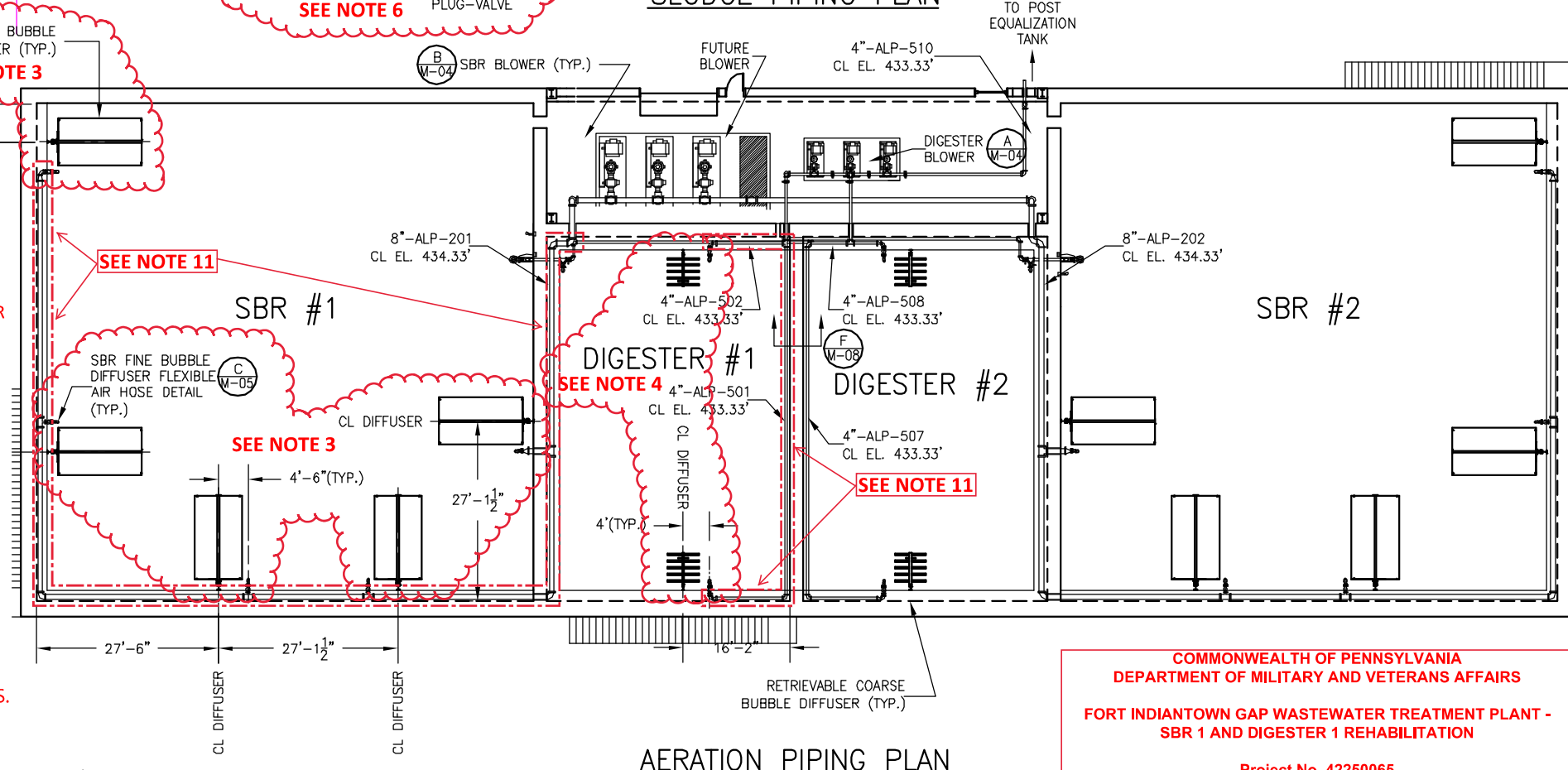
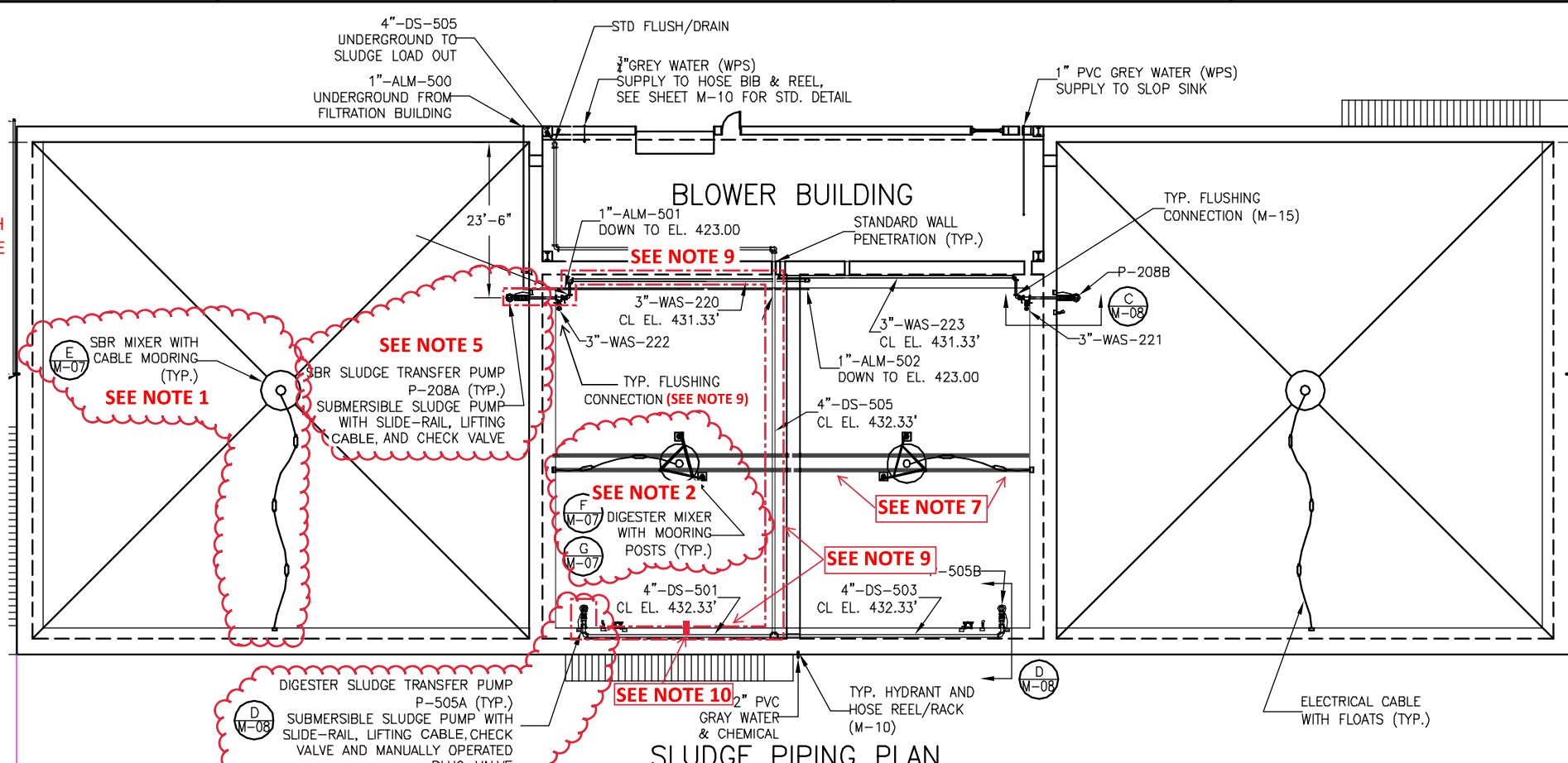
9. REMOVE AND DISPOSE OF EXISTING 3" AND 4" STEEL/DUCTILE IRON SLUDGE PIPING, INSULATION, HEAT TRACE, ANCHORS AND RELATED COMPONENTS. MAINTAIN AND PROTECT EXISTING PIPING AND WALL SEALS TO REMAIN WHERE PIPING PASSES THROUGH WALLS UNLESS NOTED OTHERWISE. PROVIDE THE FOLLOWING:
 - A. TEMPORARY WATERTIGHT CAPS ON EXISTING SLUDGE PIPING TO REMAIN IN SERVICE
 - B. NEW 3" AND 4" DUCTILE IRON (CLASS 53, FLANGED, CEMENT LINED) SLUDGE PIPING, GASKETS AND STAINLESS STEEL HARDWARE
 - C. NEW 3" DUCTILE IRON FITTINGS, SPOOL PIECES, AND 3" PLUG VALVES FOR FLUSHING CONNECTION
 - D. NEW PIPE SUPPORTS AND ANCHORS MATCHING EXISTING
 - E. NEW HEAT TRACE - CONNECT TO EXISTING JUNCTION BOXE(S)
 - F. NEW PIPE INSULATION AND ENCASMENT MATCHING EXISTING
 - G. ALSO SEE DETAILS AND NOTES ON C.3.3

CONSTRUCTION NOTES (SHEET C.3.1):

10. PROVIDE 4"x3" TEE, 3" PLUG VALVE (ACCESSIBLE FROM WALKWAY), 3" DUCTILE IRON SPOOL PIECE, AND 3" 45 DEG. BEND FOR SLUDGE TRANSFER BETWEEN DIGESTER TANKS. REMOVE AND DISPOSE OF EXISTING PVC PIPING.
11. MAINTAIN AND PROTECT EXISTING AERATION PIPING AND RELATED COMPONENTS TO FACILITATE COATING SYSTEM WORK. AERATION PIPING AND RELATED COMPONENTS MAY BE REMOVED AND REINSTALLED TO FACILITATE WORK AT NO ADDITIONAL COST. IF PIPING IS REMOVED, PROVIDE TEMPORARY AIRTIGHT CAPS ON EXISTING PIPING TO REMAIN IN SERVICE. REINSTALL REMOVED PIPING AND COMPONENTS WITH NEW SUPPORTS AND HARDWARE MATCHING EXISTING MATERIALS.

CONSTRUCTION NOTES (SHEET C.3.1):

1. REMOVE EXISTING SBR MIXER, CABLE MOORING SYSTEM, ELECTRICAL CABLE, AND RELATED EQUIPMENT. PROVIDE NEW SBR MIXER, CABLE MOORING SYSTEM, ELECTRICAL CABLE AND RELATED EQUIPMENT AND ACCESSORIES.
2. REMOVE EXISTING DIGESTER MIXER, POST MOORING SYSTEM, ELECTRICAL CABLE, AND RELATED EQUIPMENT. PROVIDE NEW DIGESTER MIXER, POST MOORING SYSTEM, ELECTRICAL CABLE AND RELATED EQUIPMENT AND ACCESSORIES.
3. REMOVE EXISTING SBR AERATION SYSTEM. PROVIDE NEW RETRIEVABLE FINE BUBBLE AIR DIFFUSER ASSEMBLIES, FRAME ASSEMBLY, AIR COLUMN, TRACK/BEAM, FLEXIBLE AIR LINE, ISOLATION VALVE, LIFT MECHANISM, AND RELATED EQUIPMENT AND ACCESSORIES.
4. REMOVE EXISTING DIGESTER AERATION SYSTEM. PROVIDE NEW RETRIEVABLE COARSE BUBBLE DIFFUSER ASSEMBLIES, TRACK/BEAM, FLEXIBLE AIR LINE, ISOLATION VALVE, LIFTING MECHANISM, AND RELATED EQUIPMENT AND ACCESSORIES.
5. REMOVE EXISTING SBR SLUDGE TRANSFER PUMP. PROVIDE NEW SLUDGE TRANSFER PUMP, S.S. LIFTING CABLE, DISCHARGE ELBOW, DISCHARGE PIPING, GUIDE BARS, SUPPORTS, AND RELATED HARDWARE, ANCHORS, EQUIPMENT AND ACCESSORIES.
6. REMOVE EXISTING DIGESTER SLUDGE TRANSFER PUMP. PROVIDE NEW SLUDGE TRANSFER PUMP, S.S. LIFTING CABLE, DISCHARGE ELBOW, DISCHARGE PIPING, GUIDE BARS, SUPPORTS, AND RELATED HARDWARE, ANCHORS, EQUIPMENT AND ACCESSORIES.
7. EXISTING STEEL PIPE SUPPORTS INSTALLED BY DMVA TO PROVIDE ADDITIONAL SUPPORT FOR DIGESTER MIXER POST (EACH TANK). REMOVE / RELOCATE AS NEEDED DURING CONSTRUCTION AND REPLACE / RESTORE IN ORIGINAL LOCATION WHEN WORK IS COMPLETE.
8. PIPE AND TANK COATING SYSTEM (SEE SPECIFICATION 09 96 00):
 - A. PAINT ALL EXISTING / NEW PIPING IN SBR 1 AND DIGESTER 1.
 - B. PROVIDE PROTECTIVE COATING SYSTEM ON INTERIOR WALLS AND FLOOR OF SBR AND DIGESTER TANKS. COATING SYSTEM ON WALLS SHALL EXTEND FROM FLOOR TO THE BOTTOM OF THE WALKWAY. TERMINATE EDGE OF COATING INTO A MINIMUM 1/4"x1/4" SAW-CUT AND FINISH TERMINATION WITH A BEAD OF POLYSULFIDE SEALANT AFTER COATING SYSTEM IS CURED IN ACCORDANCE WITH COATING SYSTEM MANUFACTURER'S INSTRUCTIONS.
 - C. EXISTING CONCRETE TANKS ARE PRE-CAST POST TENSIONED CONCRETE TANKS MANUFACTURED AND INSTALLED BY DUTCHLAND, LLC, GAP, PA. POINT OF CONTACT IS JOSH ALLEN, P.E., 717.442.1463.
 - D. REMOVE EXISTING FLEXIBLE SEALANT AND BACKING IN VERTICAL PRE-CAST WALL PANEL JOINTS. PREPARE JOINTS IN ACCORDANCE WITH COATING SYSTEM MANUFACTURER'S INSTRUCTIONS. REPLACE BACKING AND FLEXIBLE SEALANT IN VERTICAL JOINTS WITH PRODUCTS SUITABLE FOR SUBMERGED WASTEWATER TREATMENT APPLICATIONS AND COMPATIBLE WITH SPECIFIED COATING SYSTEM.
 - E. REPAIR FAILING / LOOSE GROUT AT KEYWAYS WHERE WALL MEETS FLOOR BEFORE APPLYING COATING SYSTEM - SEE DETAIL ON C.3.3.
 - F. REPLACE FLEXIBLE SEALANT AT WALL CORNERS AND WALL TO FLOOR JOINTS WITH MATERIAL RECOMMENDED BY DUTCHLAND, LLC AND COMPATIBLE WITH SPECIFIED COATING SYSTEM.
 - G. ALSO SEE DETAILS AND NOTES ON C.3.3.

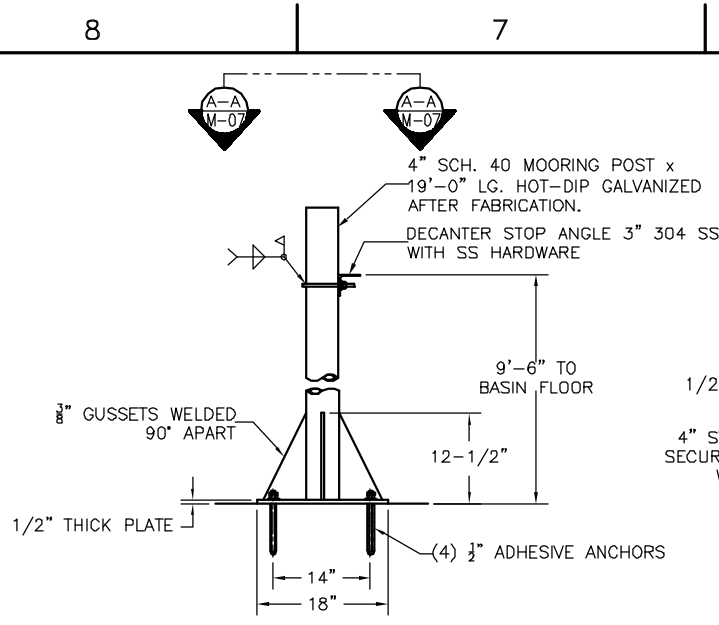


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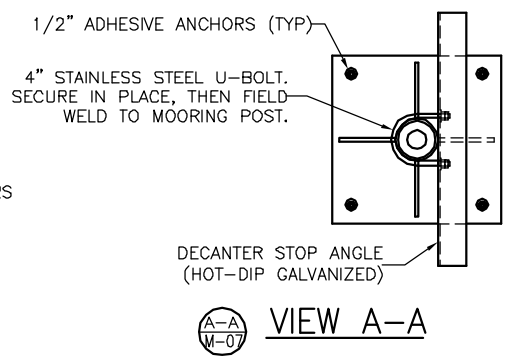
ALL DIMENSIONS/EXISTING CONDITIONS SHOWN SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE, ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE GOVERNMENT FOR CLARIFICATIONS. DRAWING SHALL NOT BE SCALED TO OBTAIN DIMENSIONS OR DISTANCES.

VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

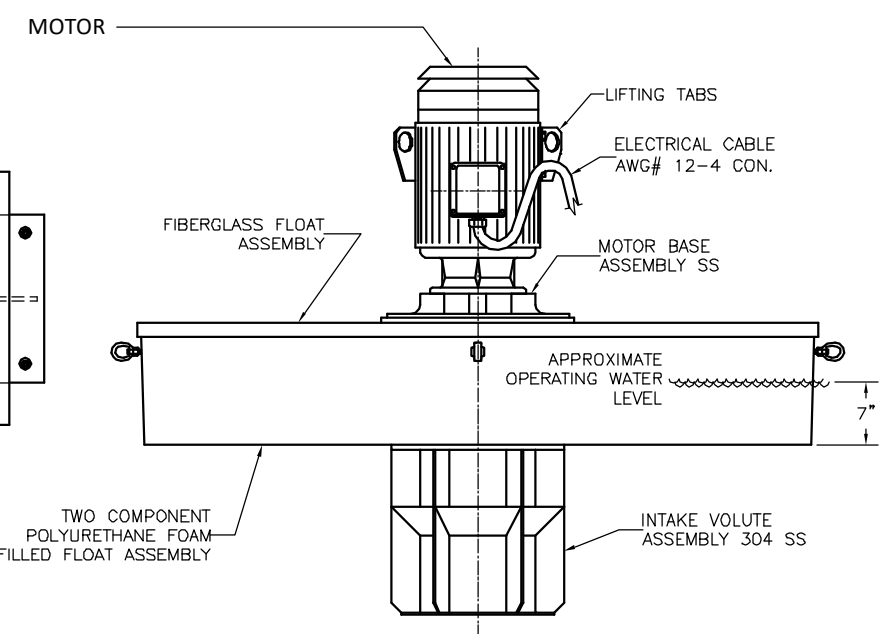
C.3.1 - SLUDGE AND AERATION PIPING PLAN



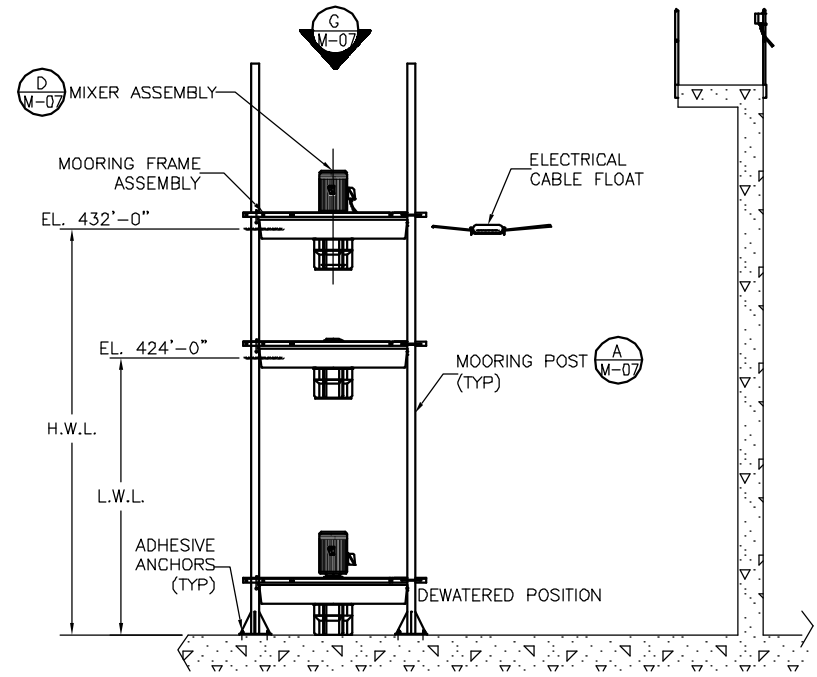
(A) MOORING POST DETAIL
 NOT TO SCALE
 (2) PLACES WITH DECANTER STOP ANGLES FOR SBR DECANTER
 (2) PLACES WITHOUT DECANTER STOP ANGLES FOR DIGESTER MIXER
 NOTE:
 POSTS MUST BE FILLED WITH CONCRETE AFTER INSTALLATION.
 POSTS ARE TO BE HELD VERTICAL AND PLUMB WITHIN ± 1/4" TO ALLOW VERTICAL MOVEMENT OF UNIT.



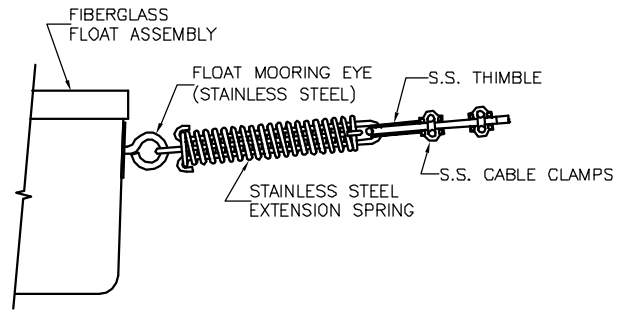
(A-A) VIEW A-A



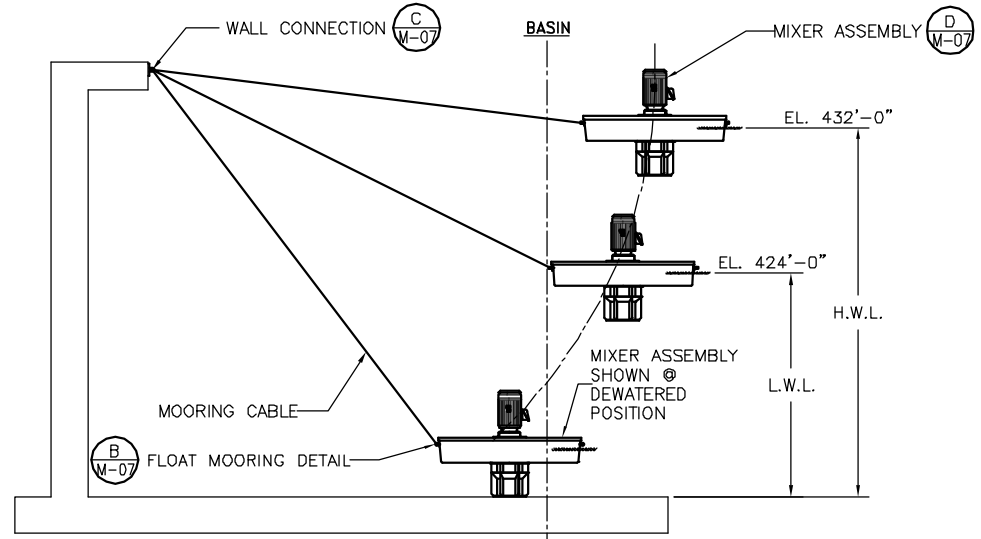
(D) SBR/DIGESTER FLOATING MIXER ASSEMBLY DETAIL
 NOT TO SCALE



(F) DIGESTER FLOATING MIXER DETAIL
 NOT TO SCALE



(B) SBR FLOAT MOORING DETAIL
 NOT TO SCALE

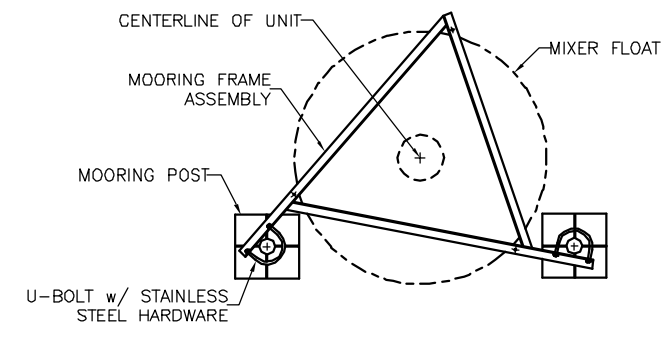


(E) SBR FLOATING MIXER
 NOT TO SCALE

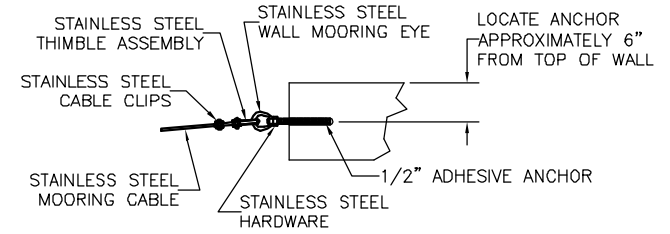
NOTE:
 1. ELECTRICAL FEED SEPARATE FROM MOORING CABLE; EQUIPPED WITH CABLE FLOATS.

CONSTRUCTION NOTES (SHEET C.3.2):

1. THIS SHEET PROVIDED FOR INFORMATION ONLY. FIELD VERIFY EXISTING EQUIPMENT INSTALLATION DETAILS AND COORDINATE PROPOSED EQUIPMENT DIMENSIONS, LAYOUT, AND FABRICATION.
2. SEE NOTE 1 AND 2 SHEET C3.1.



(G) DIGESTER FLOATING MIXER
 NOT TO SCALE



(C) WALL CONNECTION DETAIL
 NOT TO SCALE

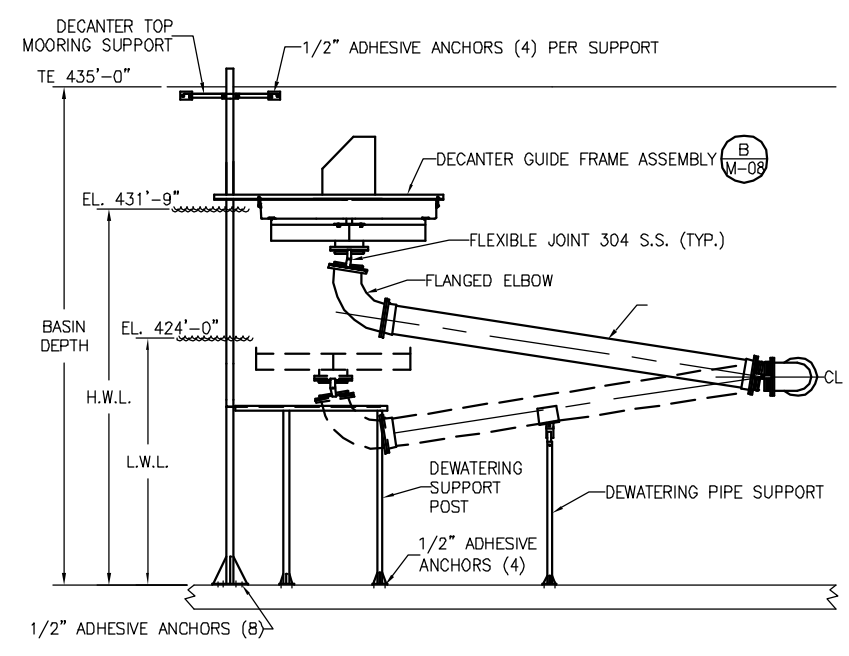
NOTE:
 EMBED ADHESIVE ANCHOR 4 1/4".

ALL DIMENSIONS/EXISTING CONDITIONS SHOWN SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE, ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE GOVERNMENT FOR CLARIFICATIONS. DRAWING SHALL NOT BE SCALED TO OBTAIN DIMENSIONS OR DISTANCES.

VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" SCALE BAR
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

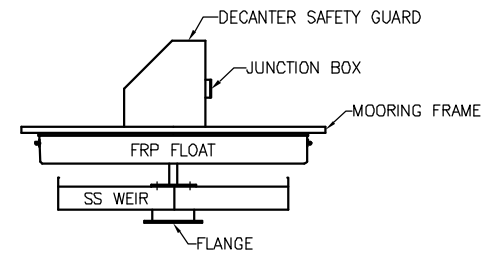
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C.3.2 - SBR AND
 DIGESTER EQUIPMENT
 DETAILS

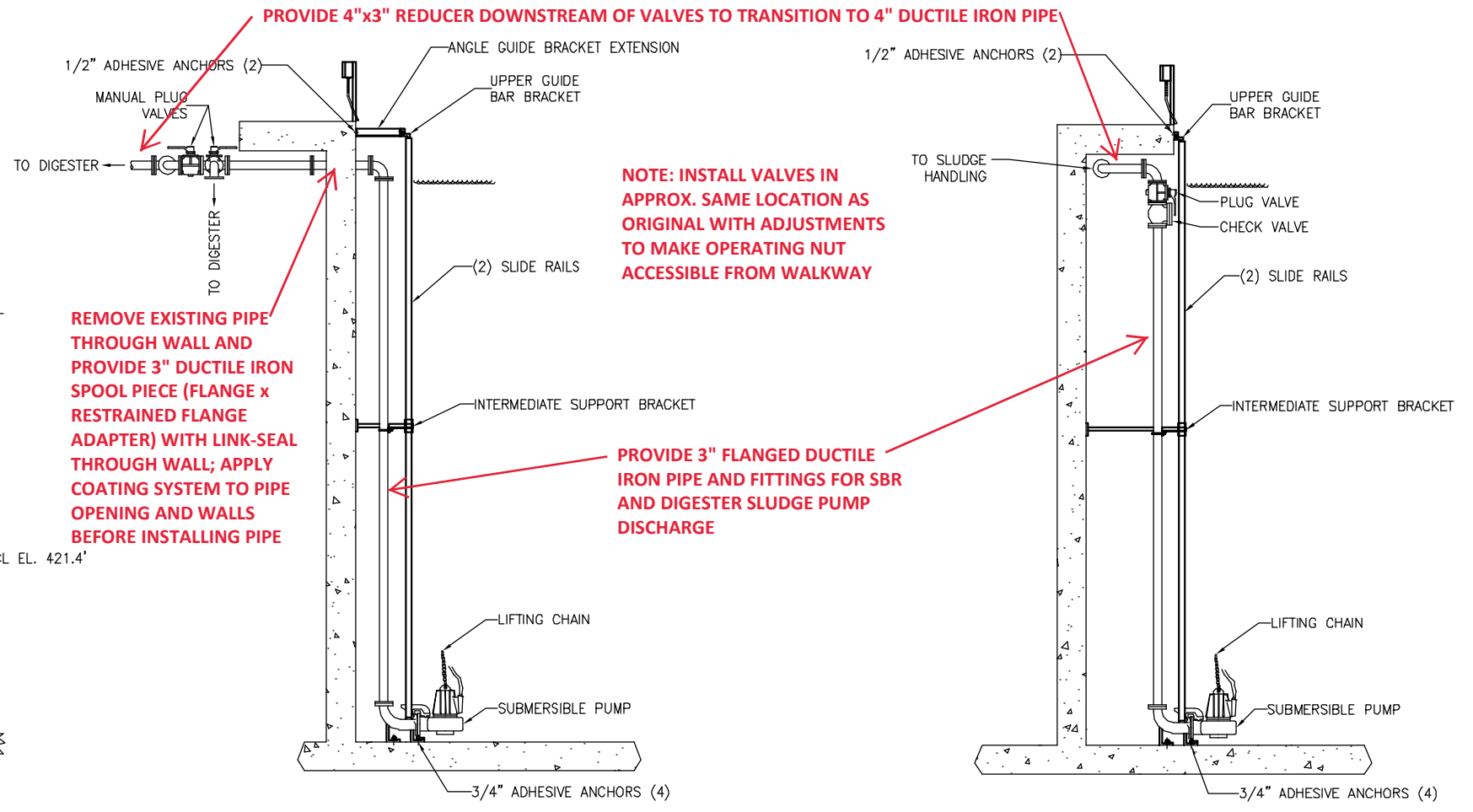


A SBR DECANTER
NOT TO SCALE

NOTE: DECANTER SHALL BE EQUIPPED WITH STANDARD, MANUFACTURER'S BAND CLAMP HEATER

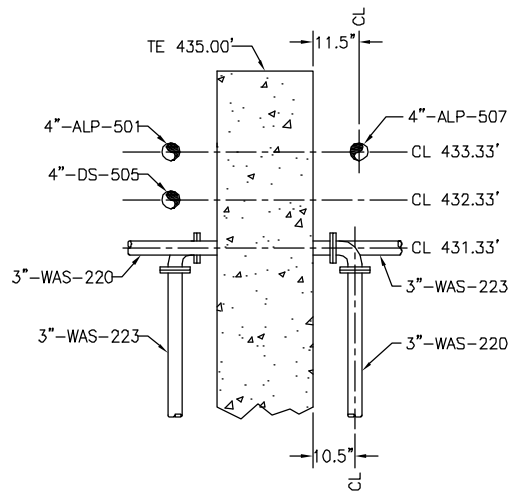


B SBR DECANTER DETAIL
NOT TO SCALE



C SBR SLUDGE TRANSFER PUMP DETAIL
NOT TO SCALE

D DIGESTER SLUDGE TRANSFER PUMP DETAIL
NOT TO SCALE



F PIPE SECTION
1/2"=1'-0"

CONSTRUCTION NOTES (SHEET C.3.3):

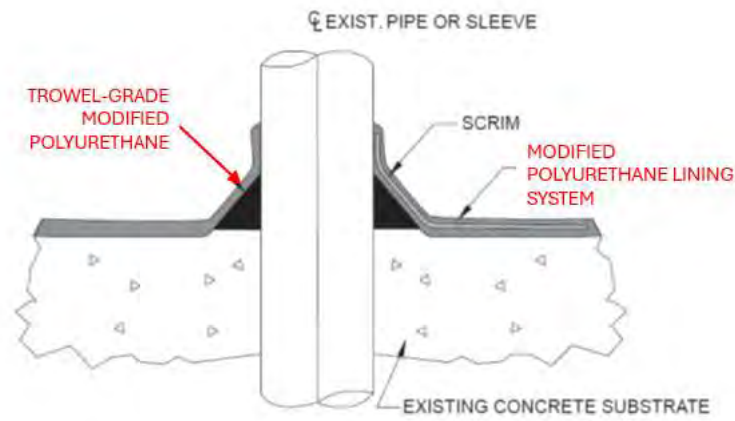
1. FIELD VERIFY EXISTING EQUIPMENT INSTALLATION DETAILS AND COORDINATE PROPOSED EQUIPMENT DIMENSIONS, LAYOUT, AND FABRICATION.
2. SEE NOTE 3 SHEET C.2.1.
3. SEE NOTE 5 AND 6 SHEET C.3.1.
4. SEE NOTE 9 SHEET C.3.1.

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C.3.3 - SBR AND
DIGESTER EQUIPMENT
DETAILS

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VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING
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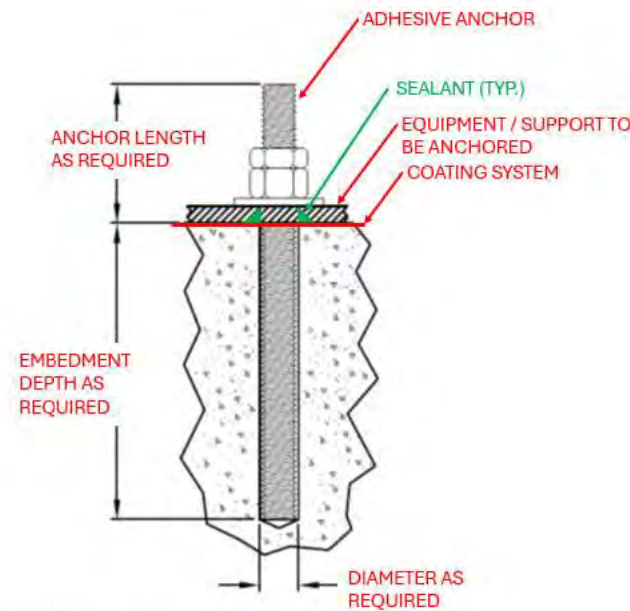


NOTE: ESTABLISH DEEPER SURFACE PROFILE 1" AROUND O.D. OF PIPE PENETRATION TO LOCK LINING SYSTEM INTO SUBSTRATE.

TYPICAL PIPE PENETRATION THROUGH WALL DETAIL
NOT TO SCALE

- NOTES:**
1. PROVIDE LINING SYSTEM FOR PIPE PENETRATIONS AFTER WALL COATING SYSTEM IS COMPLETED AND CURED.
 2. PREPARE PIPE IN ACCORDANCE WITH NAPF 500-03.
 3. PRIME PIPE WITH SPECIFIED POLYAMIDOAMINE EPOXY COATING, DFT 4.0 - 6.0 MILS; 8" MINIMUM FROM FACE OF WALL.
 4. FILL GAP / VOID WITH TROWEL-GRADE MODIFIED POLYURETHANE (TNEMEC ELASTO-SHIELD TG SERIES 265 OR EQUAL).
 5. APPLY TACK COAT OF MODIFIED POLYURETHANE FLEXIBLE LINER (TNEMEC ELASTO-SHIELD SERIES 264 OR EQUAL) 8' ON THE PIPE AND 8' ON THE WALL; EMBED FIBERGLASS SCRIM (TNEMEC SERIES 261 OR EQUAL) AND SATURATE WITH ADDITIONAL MODIFIED POLYURETHANE FLEXIBLE LINER TO ACHIEVE A MINIMUM DFT OF 50 - 60 MILS.
 6. PREPARE SURFACES AND PROVIDE COATING SYSTEM COMPONENTS IN ACCORDANCE WITH COATING SYSTEM MANUFACTURER'S INSTRUCTIONS.

DETAIL - 1

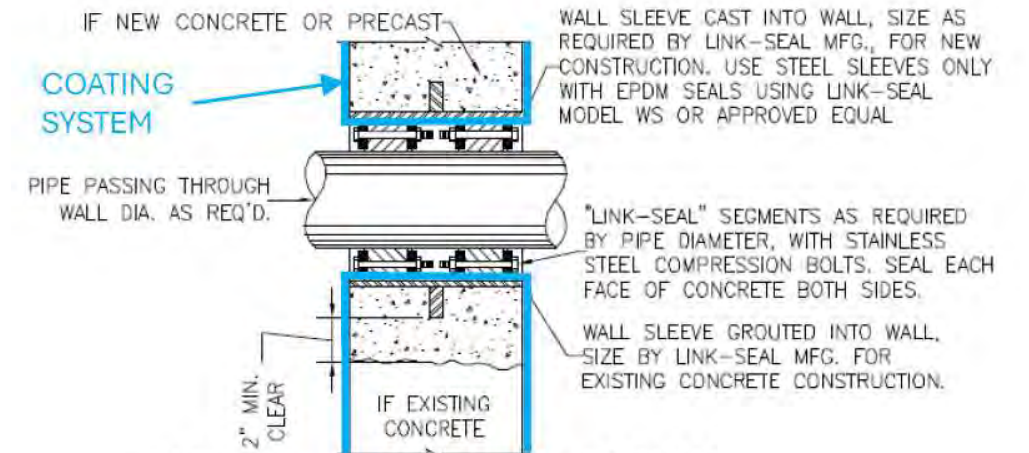


TYPICAL ADHESIVE ANCHOR DETAIL
NOT TO SCALE

- NOTES:**
1. REMOVE ALL EXISTING ADHESIVE ANCHORS FOR EQUIPMENT TO BE REPLACED BY CORE DRILLING OR OTHER APPROVED METHOD IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTRUCTIONS.
 2. PROVIDE NEW ADHESIVE ANCHORS SIZE AS REQUIRED BY TREATMENT EQUIPMENT MANUFACTURER IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTRUCTIONS.
 3. PROVIDE CHEMICAL RESISTANT POLYSULFIDE SEALANT AROUND ANCHOR WHERE IT PENETRATES THE PROPOSED COATING SYSTEM IN ACCORDANCE WITH THE COATING SYSTEM MANUFACTURER'S INSTRUCTIONS.

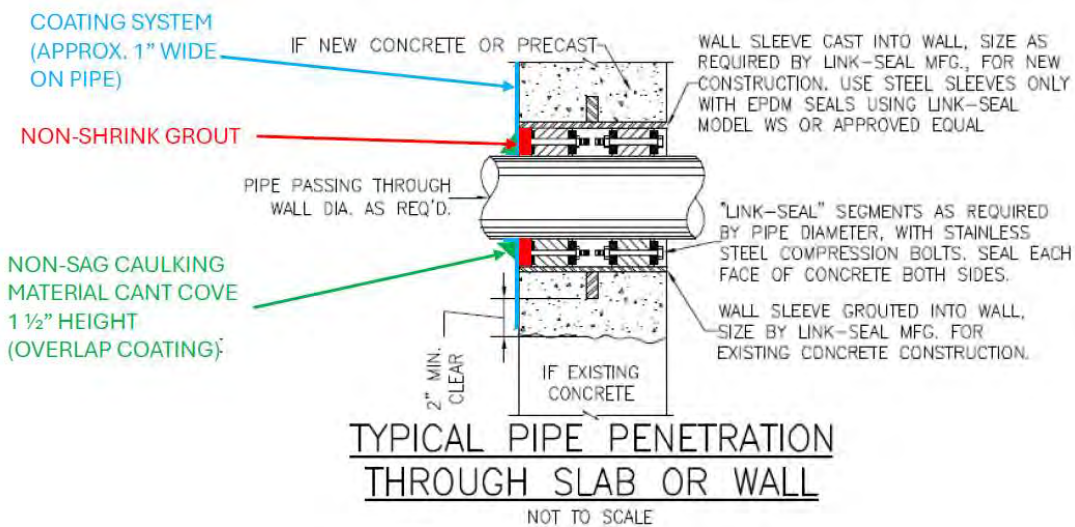
DETAIL - 2

PREP INSIDE OF EXISTING PIPE SLEEVE AND APPLY COATING SYSTEM TO INSIDE OF SLEEVE THROUGH WALL



TYPICAL PIPE PENETRATION THROUGH SLAB OR WALL
NOT TO SCALE

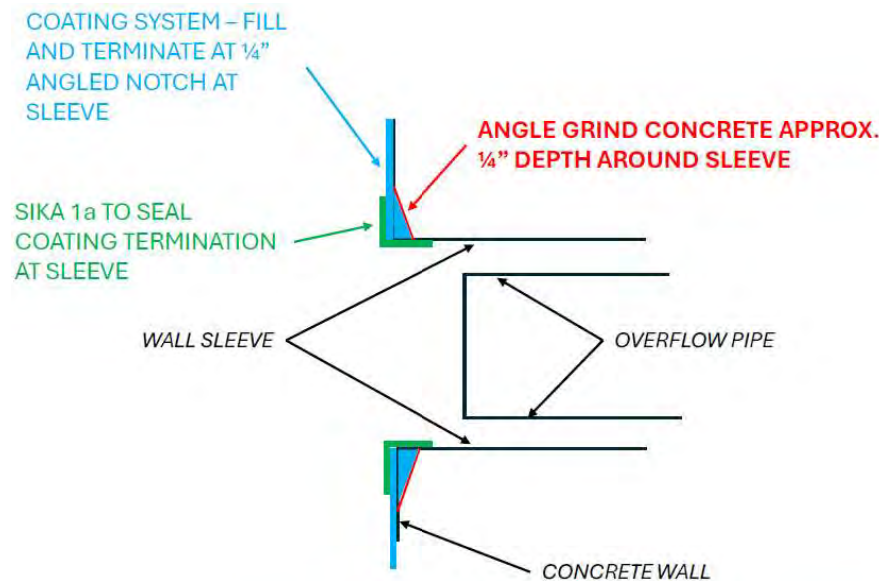
- NOTES:**
1. FOR EXISTING CONCRETE CORE DRILL CONCRETE, DIAMETER SIZE AS REQUIRED BY LINK SEAL MFG.



TYPICAL PIPE PENETRATION THROUGH SLAB OR WALL
NOT TO SCALE

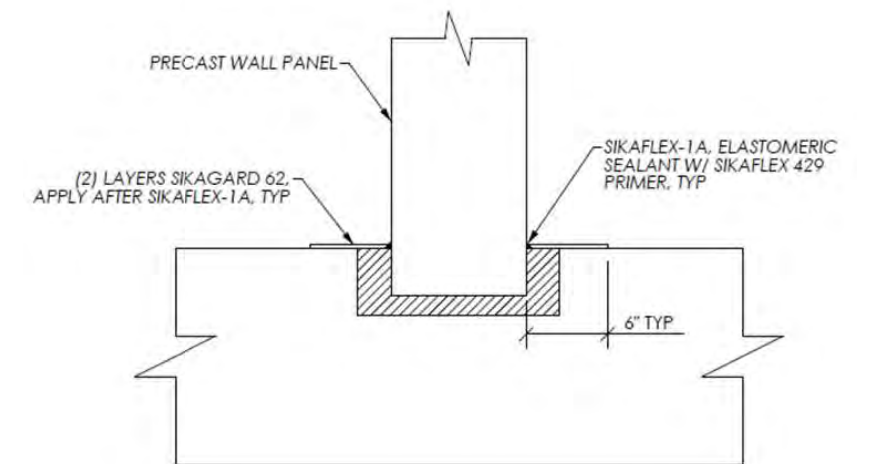
- NOTES:**
1. FOR EXISTING CONCRETE CORE DRILL CONCRETE, DIAMETER SIZE AS REQUIRED BY LINK SEAL MFG.

COATING TERMINATION AT LINK SEAL DETAIL



ELEVATION VIEW - SECTION THROUGH WALL AT OVERFLOW PIPE

COATING TERMINATION AT OVERFLOW PIPE DETAIL



WALL-BASE KEYWAY REPAIRS

REMOVE FAILING / LOOSE GROUT AT KEYWAYS. CUT EDGES VERTICAL AT 1/8" DEPTH MINIMUM TO ENSURE SUFFICIENT DEPTH FOR REPAIR MATERIAL. PROVIDE EPOXY MODIFIED CEMENTITIOUS MORTAR FOR AREAS UP TO 1/4" DEPTH OR CEMENTITIOUS REPAIR MORTAR FOR DEEPER SECTIONS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO REPLACE REMOVED MATERIAL.

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