CITY OF FLINT WATER POLLUTION CONTROL AERATION SYSTEM IMPROVEMENTS

400 SOUTH WASHINGTON SQ, SUITE 100

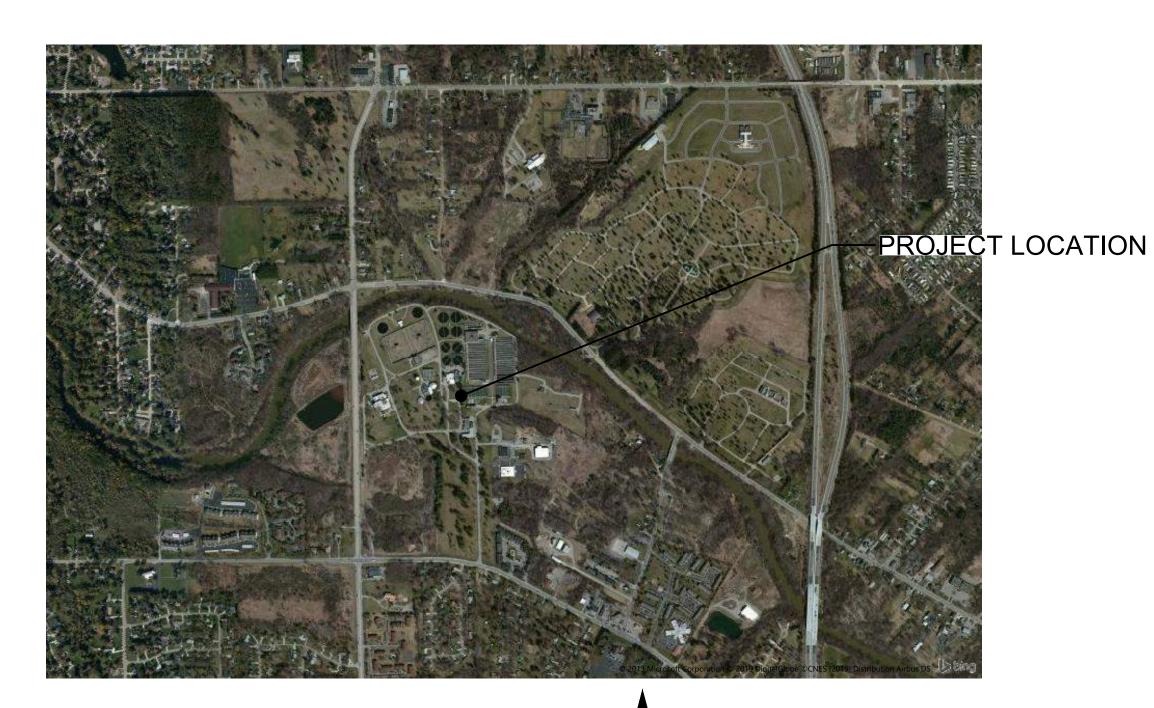
LANSING, MI, 48933

PHONE: (517) 316-3930 FAX (517) 484-8140



www.tetratech.com

SRF NO. 5696-01



LOCATION MAP
SCALE: NONE

VOLUME I OF II

CALL MISS DIG (800) 482-7171

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL CALL (800) 482-7171 A MINIMUM OF THREE (3) FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

PROJECT LOCATION:

CLIENT INFORMATION:

CITY OF FLINT WATER POLLUTION CONTROL FACILTIY 4652 BEECHER RD, FLINT MI 48532

CITY OF FLINT

Tt PROJECT No.:

200-156238-19001

CLIENT PROJECT No.:

PROJECT DESCRIPTION / NOTES:

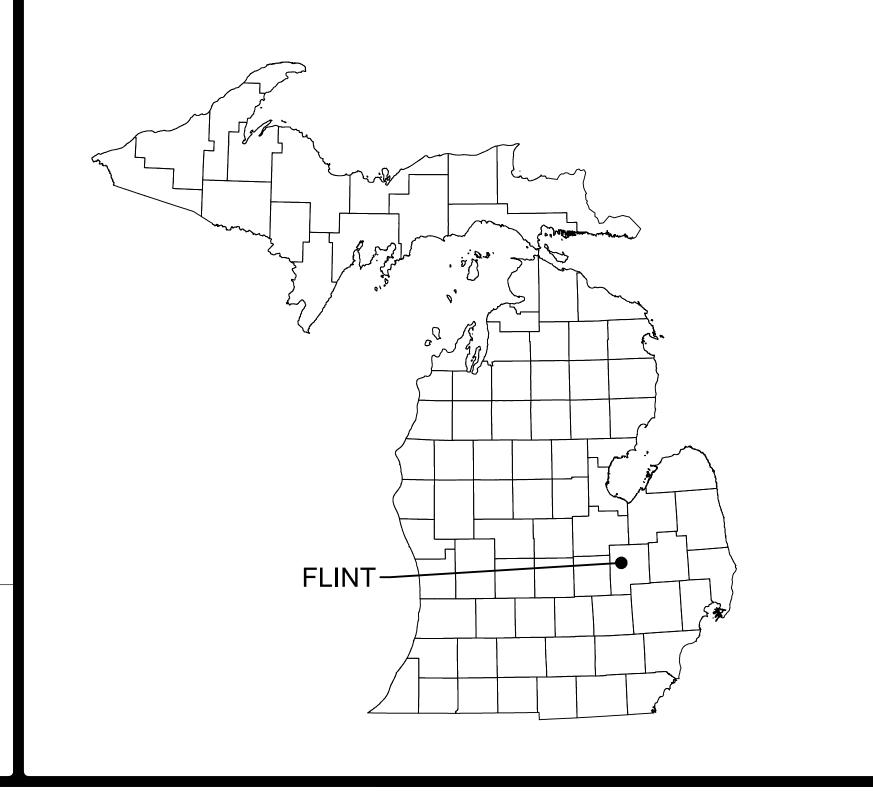
WATER POLLUTION CONTROL -

AERATION SYSTEM IMPROVEMENTS - SRF NO. 5696-01

ISSUED:

ISSUED FOR BIDS - 05/29/20

VICINITY MAP:



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GENERAL NOTES (ALL DRAWINGS)

- COORDINATE DEMOLITION WORK WITH THE REQUIREMENTS LISTED IN SECTION 01110 OF PROJECT MANUAL.
- 2. SITE INVESTIGATION PRIOR TO BIDS IS STRONGLY RECOMMENDED TO DETERMINE THE COMPLETE EXTENTS OF DEMOLITION REQUIRED. THESE DRAWINGS DO NOT INDICATE ALL MATERIALS THAT ARE TO BE REMOVED OR REROUTED IN AREA OF PROPOSED WORK
- 3. THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PROJECT INFORMATION FOR THE DRAWINGS. FOR ADDITIONAL INFORMATION REFER TO DRAWING NOTES AND PROJECT SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS
- 4. ALL GENERAL NOTES APPLY TO THE SCOPE OF THIS TOTAL PROJECT, REGARDLESS OF WHETHER OR NOT THEY ARE KEYED ON EVERY SHEET TO A SPECIFIC DETAIL.
- 5. ALL PIPING SHOWN AS BEING DEMOLISHED SHALL BE COMPLETELY REMOVED INCLUDING INSULATION, HANGERS, EXPANSION AND ANCHOR BOLTS AND PIPE SUPPORTS. PIPES TO BE DEMOLISHED THAT GO OUT OF THE WORK AREA ARE TO BE CAPPED AT THE WALL, FLOOR, OR CEILING. CAP ALL PIPES LEFT IN PLACE WITHIN 24 HOURS OF PIPE REMOVAL UNLESS DIRECTED OTHERWISE BY ENGINEER.
- 6. ALL EQUIPMENT SHOWN AS BEING DEMOLISHED SHALL BE COMPLETELY REMOVED INCLUDING EQUIPMENT PADS, ANCHORS, SUPPORTS, ELECTRICAL CONDUIT AND WIRE.
- 7. EXPANSION AND ANCHOR BOLTS REMAINING IN WALL, CEILINGS OR FLOORS SHALL BE POUNDED OR CUT FLUSH WITH SURFACE. IN FINISHED AREAS THEY SHALL BE RECESSED AND PATCHED TO MATCH EXISTING FINISH.
- 8. ALL OPENINGS REMAINING IN FLOORS, WALLS, OR CEILINGS, INCLUDING SLEEVES, AFTER PIPING AND DUCT DEMOLITION SHALL BE PATCHED TO MATCHING EXISTING FINISH AND AS DETAILED ON DRAWINGS. PENETRATION IN CHANNELS AND TANK WALLS ARE TO BE PATCHED AND SEALED WATER TIGHT. PENETRATIONS BETWEEN AREAS LABELED NEMA 4 AND NEMA 7 SHALL BE SEALED AIR TIGHT.
- 9. CAP AND BLIND FLANGE MATERIAL TO BE SAME AS PIPE BEING CAPPED.
- 10. THERE IS THE POSSIBILITY OF ASBESTOS IN THE EXISTING PIPE GASKET MATERIAL. CONTRACTOR IS RESPONSIBLE TO PROPERLY REMOVE OF THE MATERIAL IF IS ENCOUNTERED. CONTRACTOR SHALL FOLLOW ALL HANDLING AND DISPOSAL REGULATIONS.
- 11. FIELD REVIEW WITH ENGINEER AND OWNER PRIOR TO WORK WHICH PIPING AND CONDUIT ARE TO BE REMOVED.
- 12. ALL EXISTING DIMENSIONS SHOWN WITH THE (+/-) SYMBOL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION.
- 13. THE INTENT OF THE DRAWINGS IS THAT THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND TRANSPORTATION NECESSARY FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE PROJECT IN AN ACCEPTABLE MANNER, READY FOR USE BY THE OWNER.
- 14. THE CONTRACTOR SHALL REVIEW AND COORDINATE THE SCHEDULING OF ALL CONSTRUCTION WITH THE OWNER AND SUBMIT DETAILED CONSTRUCTION SCHEDULE PRIOR TO BEGINNING WORK.
- 15. THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION MEETS OR EXCEEDS APPLICABLE CODES AND STANDARD PRACTICES, INCLUDING ALL FEDERAL, STATE AND LOCAL BUILDING AND ACCESSIBILITY REQUIREMENTS AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY VIOLATION OF THE SAME AND SHALL MAKE ALL WORK ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION INVOLVED WITHOUT EXTRA CHARGE.
- 16. EACH TRADE SHALL VERIFY ALL REQUIREMENTS PERTAINING TO WORK PERFORMED IN THE PROJECT AND ANY REQUIRED PERMITS. ALL SUBCONTRACTORS SHALL DIRECT QUESTIONS, CHANGES OR REQUESTS THROUGH THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL SUBMIT ALL REQUESTS, CHANGES OR QUESTIONS TO THE OWNER'S REPRESENTATIVE IN WRITING.
- 17. THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR ALL FEDERAL, STATE, AND LOCAL PERMITS AND CODE REVIEW. OWNER WILL PAY FOR COST OF CITY BUILDING, ELECTRICAL AND MECHANICAL PERMITS.
- 18. THE CONTRACTOR SHALL MEET ALL OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA), PART 1910 AND EQUIVALENT MIOSHA STANDARDS.

GENERAL NOTES, CONT.

- 19 PRIOR TO STARTING WORK THE DEMOLITION CONTRACTOR IS TO FIELD VERIFY NOTED AREAS OF DEMOLITION TO DETERMINE ACTUAL SCOPE OF DEMOLITION, AND TO REVIEW SCOPE WITH THE OWNER'S REPRESENTATIVE TO CONFIRM SPECIFIC ITEMS TO BE SALVAGED AND STORED FOR REUSE.
- 20 PRIOR TO THE START OF ANY DEMOLITION WORK, COORDINATE WITH PLANT OPERATORS THE LOCATION OF ALL UTILITIES. PLANT LOCK OUT/TAG OUT PROCEDURES SHALL BE STRICTLY FOLLOWED.
- 21 CONTRACTOR TO PROVIDE ANY AND ALL NECESSARY FENCES, BARRICADES, OR TRAFFIC CONTROLS TO ENSURE VEHICLE AND PERSONNEL SAFETY AND ADEQUATELY PROTECT THE SITE AT ALL TIMES.
- 22. PROVIDE ADEQUATE PROTECTION TO PREVENT DAMAGE TO ADJACENT STRUCTURES.
- 23. CONTRACTOR SHALL COORDINATE WITH OWNER AND ENGINEER ALL RELOCATE AND REROUTING OF EQUIPMENT, PIPING, CONDUIT, ETC.
- 24. PROMPTLY PATCH AND REPAIR DAMAGE CAUSED TO ADJACENT BUILDING ELEMENTS BY DEMOLITION WORK. RESTORE EXPOSED FINISHES OF PATCHED AREAS IN A MANNER THAT ELIMINATES EVIDENCE OF PATCHING AND REFINISHING.
- 25. MEASURES SHALL BE TAKEN TO PREVENT DEMOLISHED MATERIAL, TOOLS, ETC FROM FALLING INTO THE TANKS, WETWELLS, AND CHANNELS.
- 26. OWNER RESERVES RIGHT TO RETAIN ANY EQUIPMENT OR MATERIALS REMOVED UNDER THIS CONTRACT. CONTRACTOR IS REPONSIBLE TO HAUL AND DISPOSE OF OFFSITE ALL REMAINING REMOVED EQUIPMENT, MATERIAL, PIPING, CONDUIT, SOILS AND DEBRIS, NOT RETAINED BY OWNER, IN ACCORDANCE WITH ALL APPLICABLE CODES, LAWS, AND ORDINANCES.
- 27. CONTRACTOR IS RESPONSIBLE TO PROVIDE AND MAINTAIN SHORING, BRACING, OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF ITEMS TO BE SELECTIVELY DEMOLISHED OR STABILIZED AND ITEMS WHICH ARE IMMEDIATELY ADJACENT TO THOSE BEING REMOVED. CONTRACTOR SHALL HIRE A LICENSED STRUCTURAL ENGINEER TO PROPERLY DESIGN ANY SHORING OR TEMPORARY SUPPORTS THAT MAY BE REQUIRED DURING THE DEMOLITION PHASE.
- 28. NO BURNING SHALL BE PERMITTED ON THIS PROJECT
- 29. BLASTING IS PROHIBITED ON THIS PROJECT.
- 30. ALL HARDWARE TO BE 304 OR 316 STAINLESS STEEL INCLUDING NUTS, BOLTS, WASHER, ANCHORS, STRUTS, ETC. THIS NOTE HAS PRECEDENCE OVER ALL DRAWINGS, DETAILS, AND PROJECT MANUAL/SPECIFICATIONS.

L NOTES, CONT.

ETRA TECH

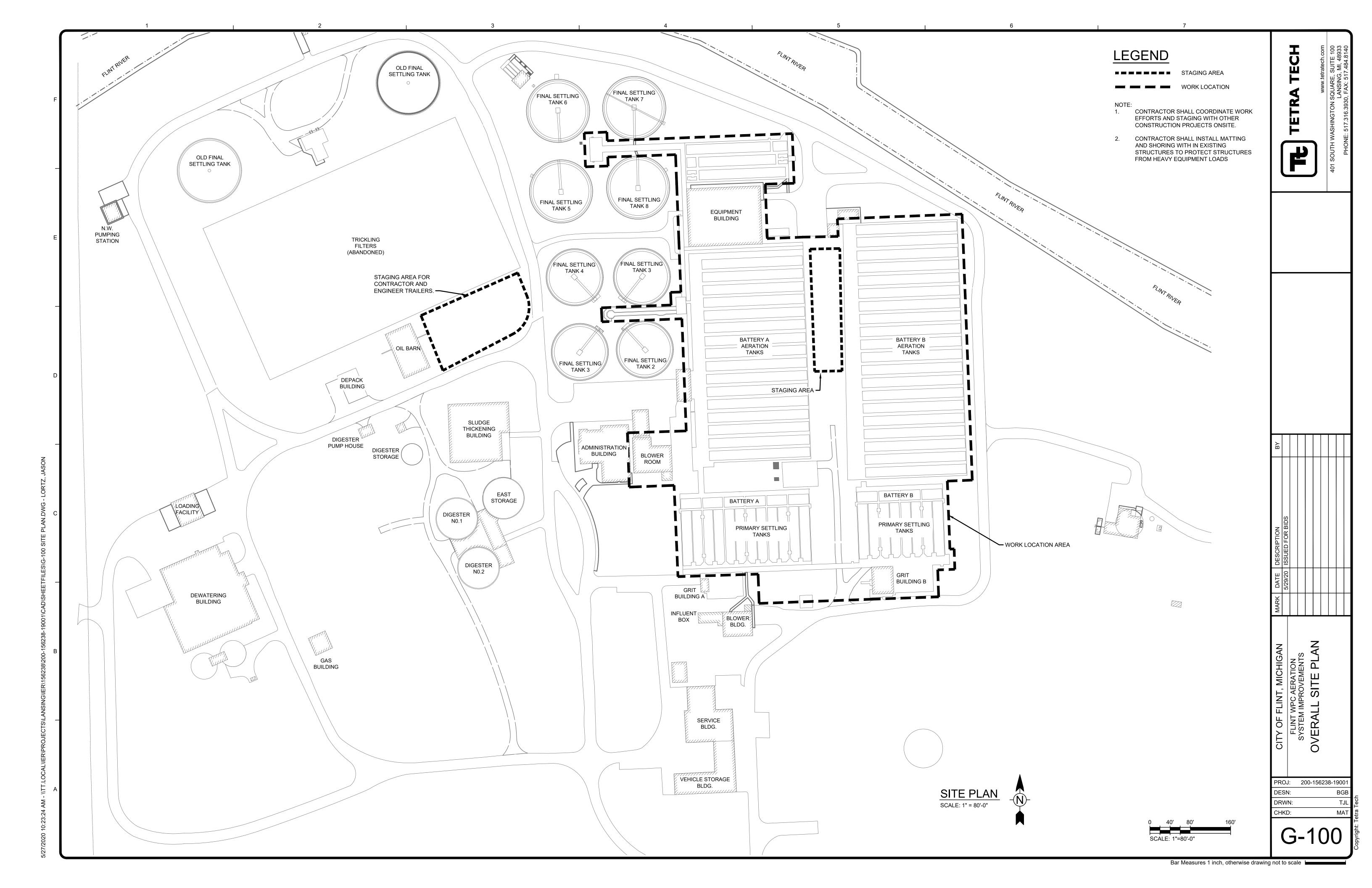


FOR BIDS

FLINT WPC AERATION
SYSTEM IMPROVEMENTS
SENERAL NOTES

PROJ: 200-156238-19001
DESN: BGB
DRWN: TJL
CHKD: MAT

G-002



B. ALL REFERENCES TO REFERENCE STANDARDS HEREIN ARE TO MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS, UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS OR ON THE DRAWING

D. ALL EXISTING DIMENSIONS SHOWN WITH THE ± SYMBOL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION.

E. DIMENSIONS MARKED WITH A "X" SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER AND COORDINATE BY

SUBMIT SHOP DRAWINGS, PROJECT DATA AND SAMPLES AS SPECIFIED IN PROJECT SPECIFICATIONS.

G. ABBREVIATIONS

A.B.	ANCHOR BOLT	F.V.	FIELD VERIFY	ORIG	ORIGINAL
ADD'L	ADDITIONAL	FD	FLOOR DRAIN	PEMB	PRE-ENGINEERED METAL
AISC	AMERICAN INSTITUTE OF	FF	FINISH FLOOR		BUILDING
	STEEL CONSTRUCTION	FFE	FINISH FLOOR ELEVATION	PERF	PERFORATED
ALT.	ALTERNATE	FIN	FINISH (ED)	PERP	PERPENDICULAR
ALUM.	ALUMINUM	FLG.	FLANGE	PL	PLATE
APPROX.	APPROXIMATE	FLR	FLOOR	PLF	POUNDS PER LINEAR FOOT
ARCH.	ARCHITECT(URAL)	FND.	FOUNDATION	PRCST	PRECAST
B.M.	BEAM	FRMG	FRAMING	PREFAB	PREFABRICATED
B.O.	BOTTOM OF	FT	FOOT	PSF	POUNDS PER SQUARE FOO
B.O.F	BOTTOM OF FOOTING	FTG	FOOTING	PSI	POUNDS PER SQUARE INCH
B.O.S.	BOTTOM OF STEEL	GA	GAGE, GAUGE	PT	PRESSURE TREATED
BLDG.	BUILDING	GALV	GALVANIZED	QTY	QUANTITY
BOT.	BOTTOM	GR.	GRADE	R	RISER
BRG.	BEARING	GRTG	GRATING	RAD.	RADIUS
BTWN	BETWEEN	H.P.	HIGH POINT	RD	ROOF DRAIN
C/C	CENTER TO CENTER	H.R.	HAND RAIL	REF	REFERENCE
CCJ	CRACK CONTROL JOINT	HK	HOOK	REINF.	REINFORCEMENT
CFS	COLD FORMED STEEL	HORIZ	HORIZONTAL	REQ	REQUIRE
CJ	CONSTRUCTION JOINT	HT	HEIGHT	REQ'D	REQUIRED
CL	CENTER LINE	HVAC	HEATING VENTILATION AND	REV	REVISION
CLG	CEILING	TIVAC	AIR CONDITIONING	RO	ROUGH OPENING
CLR	CLEAR	I.D.	INSIDE DIAMETER	SCHED	SCHEDULE
CMU	CONCRETE MASONRY UNIT	I.F.	INSIDE FACE	SF	SQUARE FOOT
COL	COLUMN	I.J.	ISOLATION JOINT	SHT.	SHEET
CONC	CONCRETE	IN.	INCH	SIM.	SIMILAR
CONST	CONSTRUCTION	INSUL	INSULATION	SPA.	SPACE
CONT	CONTINUOUS	L	ANGLE	SPEC	SPECIFICATIONS
COORD	COORDINATE	L.P.	LOW POINT	SQ	SQUARE
CTR	CENTER	LBS	POUNDS	SS	STAINLESS STEEL
DBA	DEFORMED BAR ANCHOR	LF	LINEAR FOOT (FEET)	STAG.	STAGGER
DEMO	DEMOLISH	LLH	LONG LEG HORIZONTAL	STAG. STD	STANDARD
DEMO	DIAMETER	LLV	LONG LEG HORIZONTAL LONG LEG VERTICAL	STL	STEEL
				STL JST	
DIM	DIMENSION	LOC	LOCATION		STEEL JOIST
DIST	DISTANCE	MATL	MATERIAL	STRUCT	STRUCTURE(AL)
DN	DOWN	MAX	MAXIMUM	SYM	SYMMETRICAL
DTL.	DETAIL DRAWING(S)	MECH	MECHANICAL	T	TREAD
DWG(S)	DRAWING(S)	MFR	MANUFACTURER	T.O.C.	TOP OF CONCRETE
DWL	DOWEL	MID	MIDDLE / MIDPOINT	T/	TOP OF
E	EXISTING	MIN	MINIMUM, MINUTE	TEMP	TEMPORARY
EA	EACH	MISC.	MISCELLANEOUS	THK	THCKNESS
EF	EACH FACE	MTL	METAL	TOF	TOP OF FOOTING
EJ	EXPANSION JOINT	N	NEW	TOS	TOP OF SLAB
	ELEVATION	N.S.	NEAR SIDE	TRANSV.	TRANSVERE
ELEC	ELECTRIC(AL)	N.T.S.	NOT TO SCALE	TYP	TYPICAL
ENGR	ENGINEER	NA	NOT APPLICABLE	UNO	UNLESS NOTED OTHERWIS
EQ	EQUAL	NO	NUMBER	V.I.F.	VERIFY IN FIELD
EQUIP	EQUIPMENT	NOM	NOMINAL	VERT	VERTICAL
EW	EACH WAY	O.C.	ON CENTER	W.P.	WORK POINT
EXIST	EXISTING	O.D.	OUTSIDE DIAMETER	W/	WITH
EXP	EXPANSION	OPH	OPPOSITE HAND	W/O	WITHOUT
EVTO	EVICTING	ODNO	ODENINO	1440	WATER OTOR

DESIGN CRITERIA

OPENING

OPPOSITE

A. REFERENCES:

EXISTING

FAR SIDE

1. ICC INTERNATIONAL BUILDING CODE, 2015 EDITION

RISK CATEGORY III IN ACCORDANCE WITH TABLE 1604.5

STATE BUILDING CODE: 2015 MICHIGAN BUILDING CODE
 ASCE/SEI 7-10 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

B. DEAD LOADS:

FLOOR DEAD LOAD

= SELF WEIGHT

WATER STOP.

WELDED WIRE FABRIC

C. LIVE LOADS (U.N.O.):

TYPICAL GRATING AND FRP COVERS = 100 PSI

EXISTING CONCRETE REPAIR NOTES

- 1. LOCATIONS OF CONCRETE REPAIRS ARE TO BE INDICATED BY OWNER/ENGINEER IN THE FIELD PRIOR TO COMMENCEMENT OF CONCRETE REPAIRS.
- SAW CUT PERIMETER OF DETERIORATED CONCRETE TO FORM A RECTANGLE WITH STRAIGHT EDGES TO A DEPTH OF 3/4". INTERSECTING CUTS SHALL BE PERPENDICULAR TO EACH OTHER.
- 3. REINFORCING SHALL NOT BE CUT WITHOUT PRIOR APPROVAL BY THE ENGINEER.
- 4. REMOVE ALL LOOSE AND DETERIORATED MATERIALS, DIRT, OIL, AND GREASE, BY SANDBLASTING, CHIPPING OR WIRE BRUSHING. UNIFORMLY ROUGHEN THE CONCRETE SURFACE TO APPROXIMATELY 1/4" AMPLITUDE CONCRETE SURFACE PROFILE CSP 7 TO 9. IF THE DETERIORATION OCCURS OVER REINFORCING BARS, REMOVE CONCRETE AROUND EACH BAR TO ALLOW A MINIMUM OF 1 INCH ALL AROUND BAR. SOME SOUND CONCRETE MAY NEED TO BE REMOVED TO ADEQUATELY EXPOSE AND CLEAN CORRODED REINFORCEMENT. AVOID DAMAGING REINFORCING WITHIN THE REPAIR AREA. DO NOT CUT REINFORCING BARS UNLESS DIRECTED BY THE ENGINEER.
- 5. REMOVE ALL CORROSION ALL AROUND THE EXPOSED REINFORCING BARS . AFTER CLEANING REINFORCING BARS . THOROUGHLY COAT ALL SURFACES OF THE REINFORCING WITH ANTI-CORROSION PROTECTIVE COATING. BARS SHOWN TO REMAIN IN PLACE WHICH ARE FOUND TO HAVE LOST MORE THAN 15% CROSS SECTIONAL AREA DUE TO CORROSION OR WHICH ARE DAMAGED BY THE CONCRETE REMOVAL PROCESS, SHALL BE SPLICED. THE CONTRACTOR SHALL HAVE AN ADEQUATE AMOUNT OF REPLACEMENT BARS ON-SITE.
- 6. AT LIMITS OF CONCRETE REMOVAL WHERE SURFACE WILL REMAIN EXPOSED MAKE SURFACE SMOOTH BY SAW CUTTING OR GRINDING. COAT ENTIRE SURFACE WITH COATING TO PROTECT EXPOSED REBAR.
- . BONDING TO EXISTING CONCRETE METHODS ARE DEFINED IN SPECIFICATION SECTION 03930.
- 8. SEE SPECIFICATION SECTION 03930 FOR ADDITIONAL REQUIREMENTS.
- ALL REPAIR DETAILS ARE BASED ON VISUAL OBSERVATIONS ONLY. NO ANALYSIS HAS BEEN PERFORMED ON EXISTING STRUCTURES STRENGTH / STABILITY.

STRUCTURAL CONCRETE

- A. REFERENCES:
 - 1. ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - 2. ACI SP-66 ACI DETAILING MANUAL
 - 3. ACI 301-16 SPECIFICATION FOR STRUCTURAL CONCRETE
 - 4. ACI 117-10 SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS
- 5. CRSI MSP-2-01 MANUAL OF STANDARD PRACTICE
- 6. CRSI REINFORCING BAR DETAILING
- 7. CRSI PLACING REINFORCING BARS
- B. MATERIALS
 - 1. STRUCTURAL CONCRETE

a) MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (fc)......4000 PSI
b) ALL CONCRETE EXPOSED TO THE ELEMENTS SHALL BE AIR-ENTRAINED IN ACCORDANCE WITH ASTM C260 SEE SPECIFICATIONS.

c) ALL CONCRETE AGGREGATE SHALL COMPLY WITH ASTM C33 (NORMAL WEIGHT).

2. REINFORCEMENT

a) REINFORCING BARS: ASTM A615, GRADE 60

b) WELDED SMOOTH WIRE FABRIC - ASTM A185 (SHEETS ONLY, ROLL FABRIC NOT ALLOWED)

3. ACCESSORIES

a) BAR SUPPORTS CLASS 1, MAXIMUM PROTECTION (CRSI MANUAL OF STANDARD PRACTICE) FOR ALL SLABS AND BEAMS WITH SOFFITS EXPOSED TO VIEW

4. ADHESIVE ANCHORS

a) ALL PERSONNEL INSTALLING ANCHORS SHALL BE TRAINED BY THE MANUFACTURER ON PROPER INSTALLATION TECHNIQUE. TRAINING DOCUMENTATION FROM THE MANUFACTURER SHALL BE AVAILABLE ON REQUEST.
b) HOLE SIZES AND INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION

INSTRUCTIONS (MPII)
c) ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY A WITH INSTALLATIONS INTO DRY/WATER SATURATED HOLES

DRILLED USING A CARBIDE DRILL BIT INTO CONCRETE THAT HAS BEEN CURED FOR AT LEAST 21 DAYS.

d) ANY ADHESIVE ANCHOR INSTALLED HORIZONTALLY OR IN A VERTICALLY INCLINED PLANE SHALL BE INSTALLED BY CERITIFIED ADHESIVE ANCHOR INSTALLER, PER ACI 318-14 17.8.2.2, AND SHALL BE INSPECTED PER ACI 318-14

17.8.2.4. >> FILL IN ALL ARANDONED HOLES WITHIN 2" OF NEW ANCHOR LOCATION

e) FILL IN ALL ABANDONED HOLES WITHIN 2" OF NEW ANCHOR LOCATIONS.
f) WHERE REQUIRED, A PROGRAM FOR ON-SITE PROOF LOADING, THAT IS, PROOF LOADING PROGRAM, TO BE CONDUCTED AS PART OF THE SPECIAL INSPECTION AND SHALL BE ESTABLISHED BY THE ENGINEER OR DESIGN

PROFESSIONAL OF RECORD AND SHALL CONFORM TO THE FOLLOWING MINUMUM REQUIREMENTS.

1. FREQUENCY OF PROOF LOADING BASED ON ANCHOR TYPE, DIAMETER, AND EMBEDMENT.

2. PROOF LOADS BY ANCHOR TYPE, DIAMETER, EMBEDMENT, AND LOCATION.

ACCEPTABLE DISPLACEMENTS AT PROOF LOAD.
 REMEDIAL ACTION IN THE EVENT OF FAILURE TO ACHIEVE PROOF LOAD OR EXCESSIVE DISPLACMENT.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGN PROFESSIONAL OF RECORD, PROOF LOADS SHALL BE APPLIED AS CONFINED TENSION TESTS (4.7.2.3). PROOF LOADS LEVELS SHALL NOT EXCEED THE LESSER OF 50 PERCENT OF THE EXPECTED PEAK LOAD BASED ON ADHESIVE BOND STRENGTH OT 80 PRECENT IF THE ANCHOR YIELD STRENGTH. MAINTAIN THE PROOF LOAD AT THE REQUIRED LOAD LEVEL FOR A MINIMUM OF 10 SECONDS.

. GROUT: HIGH STRENGTH, NON-SHRINK STRUCTURAL GROUT. SEE SPECIFICATIONS.

REINFORCEMENT DETAILING

- ALL REINFORCING STEEL DETAILS SHALL BE IN ACCORDANCE WITH THE ACI CODE REQUIREMENTS (ACI 318 OR
- 2. REINFORCING STEEL PLACING DRAWINGS AND BAR LISTS SHALL CONFORM TO THE ACI OR CRSI DETAILING MANUALS. ALL BAR AND MESH SUPPORTS MUST BE CLEARLY DETAILED
- CONCRETE COVER FOR REINFORCING SHALL BE INDICATED ON THE APPLICABLE REINFORCING STEEL SHOP DRAWINGS. HOWEVER, NO REINFORCING IN AREAS EXPOSED TO EARTH, WEATHER, SEWAGE OR WATER SHALL HAVE COVER LESS THAN TWO INCHES.
- 4. HOOKS AND BENDS SHALL MEET ACI STANDARD UNLESS OTHERWISE INDICATED.
- SPLICES: CONTINUOUS REINFORCING BARS SHALL BE FURNISHED WITH CLASS 'B' TENSION LAPS SPLICES INCLUDING CORNER BARS, UNLESS NOTED OTHERWISE.
- MECHANICAL SPLICES SHALL NOT BE PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE
- 7. REINFORCING STEEL FABRICATION AND PLACEMENT SHALL BE IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND CRSI PLACING REINFORCING BARS (LATEST EDITIONS).

STRUCTURAL CONCRETE

- 8. SPREAD BARS AROUND SMALL OPENINGS AND SLEEVES IN SLABS AND WALLS WHERE POSSIBLE AND WHERE BAR SPACING WILL NOT EXCEED 1.5 TIMES THE NORMAL SPACING. DISCONTINUE BARS AT LARGE OPENINGS WHERE NECESSARY AND PROVIDE AN AREA OF REINFORCEMENT EQUAL TO THE INTERRUPTED REINFORCEMENT DISTRIBUTING ONE-HALF OF THIS REINFORCEMENT EACH SIDE OF THE OPENING (TENSION LAP SPLICED). HOLES LARGER THAN 12 INCHES IN ANY DIRECTION SHALL HAVE (2) #6 X 4'-0" DIAGONAL BARS IN BOTH FACES AT EACH
- ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONCRETE
 NO REINFORCING STEEL SHALL BE FIELD BENT WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. FIELD BENDING OF PLAIN REINFORCEMENT, IF PERMITTED, SHALL BE PERFORMED USING AN APPROVED AND APPROPRIATE SIZED PORTABLE HYDRAULIC DEVICE THAT MAKES ACI STANDARD RADIUS BENDS. NO OTHER FIELD BENDING METHOD SHALL BE PERMITTED.
- 11. WELDING, INCLUDING TACK WELDING, FOR REINFORCING STEEL IS PROHIBITED. WELDING OF REINFORCING STEEL AND HIGH STRENGTH BOLTS, IE. A36, F1554, WILL BE PERMITTED ONLY BY WRITTEN APPROVAL OF THE ENGINEER.
- ALL OPENINGS THROUGH WALLS, SLABS OR OTHER STRUCTURAL ELEMENTS NOT DETAILED ON THE STRUCTURAL DRAWINGS MUST BE LOCATED BY THE CONTRACTOR AND SHOWN ON THE APPLICABLE REINFORCING STEEL SHOP DRAWINGS. THE FINAL LOCATION OF ALL OPENINGS MUST BE REVIEWED BY THE ENGINEER BEFORE THE CONCRETE IS POURED.
- 13. MODIFICATION AND REPAIR TO EXISTING CONCRETE: (A) SEE CONCRETE SPECIFICATIONS FOR COMPLETE EXPLANATION. (B) CONNECTION METHODS METHOD A BONDING TO SATURATED SURFACE METHOD B BONDING BY USING BONDING AGENT METHOD C DOWELS USING EPOXY BONDING AGENT
- CONCRETE FINISHES: SEE SPECIFICATIONS
- 1. FORMED SURFACES:
 - a) EXPOSED TO VIEW: GROUT CLEANED FINISH.b) COVERED OR AS NOTED ON PLANS: AS-CAST

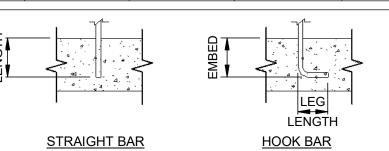
CURING AND PROTECTION: SEE SPECIFICATIONS.

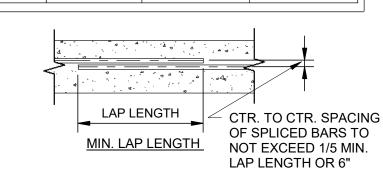
- 2. FLATWORK:
- a) EXPOSED TO VIEW: TROWELED

STRUCTURAL DRAWINGS.

- SEE THE MECHANICAL, ELECTRICAL AND SUPPLIERS DRAWINGS AND THE SPECIFICATIONS FOR THE LOCATIONS OF SPECIAL ANCHORS, CHAMFERS, SLEEVES, PIPES, CONDUITS AND OTHER DETAILS NOT SHOWN ON THE
- SIZE AND LOCATION OF EQUIPMENT PADS AND ANCHOR BOLTS SHALL BE AS REQUIRED BY THE EQUIPMENT MANUFACTURER. ALL CONDUIT PLACED IN SLAB SHALL BE APPROVED BY STRUCTURAL ENGINEER OF RECORD PRIOR TO INSTALLING CONDUIT AND POURING SLAB.
- H. SUBMITTALS
 - . CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE FOLLOWING DOCUMENTS TO THE ENGINEER OF RECORD:
 - a) CONCRETE MIX DESIGN
 - b) CONCRETE REINFORCING DRAWINGS
 - c) CONCRETE REPAIR PRODUCTS

		TENSION	DEVELOPMENT /	LAP SPLICE SCHEE	DULE (UNCOAT	ED BARS)				
DEVELOPMENT / LAP SPLICE LENGTH IN CONCRETE (f'c = 4000 PSI)										
BAR	DEVELOPMEN	T LENGTH (IN)	CLASS 'B' LAP SI	PLICE LENGTH (IN)	STD 90 DEG. HOOK (IN)					
SIZE	BAR TYPE 1	BAR TYPE 2	BAR TYPE 1	BAR TYPE 2	EMBED	LEG LENGTH	BEND DIA.			
3	15	22	19	28	6	6	3			
4	19	29	25	37	7	8	3			
5	24	36	31	47	9	10	3 3/4			
6	29	43	37	56	10	12	4 1/2			
7	42	63	54	81	12	14	5 1/4			
8	48	72	62	93	14	16	6			
9	54	81	70	105	15	19	9 1/2			
10	61	91	79	118	17	22	10 3/4			
11	74	111	97	145	19	24	11 1/2			





BAR TYPE 1 - CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN Db, CLEAR COVER NOT LESS THAN Db, AND STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN CODE MINIMUM

CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2*Db AND CLEAR COVER NOT LESS THAN Db.

BAR TYPE 2 - TOP BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW AND OTHER CASES

PROJ: 200-156238-19001

DESN: AJF

DRWN: DA

CHKD: MDS

U S

S-001

Bar measures 1 inch, otherwise drawing is not to scale

WHICHEVER IS LESS

STRUCTURAL ALUMINUM

- A. REFERENCES:
 - AA ALUMINUM DESIGN MANUAL
- 2. AA ALUMINUM STANDARDS AND DATA
- 3. ANSI/DWS D1.2 ALUMINUM WELDING CODE
- MATERIALS:
- 1. PLATES AND ROLLED SHAPES: 6061-T6
- 2. STRUCTURAL BOLTS: 316 STAINLESS STEEL
- C. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
- D. PROVIDE MIN. (2) 3/4" STAINLESS STEEL BOLTS (316), WASHERS, AND NUTS FOR ALL CONNECTIONS, UNLESS NOTED OTHERWISE. ALL SS BOLTS SHALL HAVE CORROSION INHIBITING GREASE AND SHALL BE SEPARATED FROM DISSIMILAR METALS TO PREVENT CORROSION.
- E. ALL WELDING SHALL CONFORM TO AWS D1.2. SHOP DRAWINGS SHALL SHOW ALL SHOP AND ERECTION DETAILS INCLUDING CUTS, COPE CONNECTIONS, HOLES, THREADED FASTENERS, RIVETS, AND WELDS. GRIND ALL WELDS FOR SMOOTH TRANSITIONS.
- THE APPROVAL OF THE SHOP DRAWINGS WILL BE FOR SIZE AND ARRANGEMENT OF PRINCIPAL AND AUXILIARY MEMBERS AND STRENGTH OF CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS.
- G. BURNING OF HOLES IN ALUMINUM IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER
- ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH BITUMINOUS PAINT OR OTHER APPROVED ISOLATION COATING.

FIBERGLASS REINFORCED PLASTIC COVER

- 1. COVERS CAN CONSIST OF A FRP PLATE VULCANIZED TO FRP GRATING OR FRP STRUCTURAL SHAPES AS REQUIRED TO MEET THE SIZE AND STRUCTURAL DESIGN REQUIREMENTS.
- 2. SURFACE TEXTURE: NON-SLIP
- 3. COLOR: DARK GRAY, TO BE SELECTED BY OWNER.
- 4. DEPTH: 2 INCHES OR AS REQUIRED FOR THE TOP SURFACE TO BE FLUSH WITH ADJACENT CONCRETE SURFACE.
- 5. LOAD/DEFLECTION: FOR THE SPANS SHOWN ON THE DRAWINGS, COVER SHALL SUPPORT A UNIFORM DISTRIBUTED LOAD OF 100 PSF OR A CONCENTRATED MIDSPAN LINE LOAD OF 300 LB/FT, WITH A MAXIMUM DEFLECTION OF 3/8" OR SPAN (INCHES)/120, WHICHEVER IS LESS.
- 6. LAYOUT: EACH GRATING SECTION SHALL BE 2'-0" LONG AND READILY REMOVABLE, UNLESS NOTED OTHERWISE.
- 7. WHEN REQUIRED, FIELD CUT AND DRILL FRP COVER WITH CARBIDE OR DIAMOND TIPPED BITS AND BLADES. CUT OR DRILLED SURFACES SHALL BE SEALED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

EQUIPMENT ANCORAGE NOTES

- 1. ANCHORAGE FOR EQUIPMENT NOT SPECIFICALLY DETAILED IN THESE DRAWINGS SHALL BE DESIGNED AND PROVIDED BY THE TANK OR EQUIPMENT MANUFACTURER. THE CALCULATIONS AND SHOP DRAWINGS FOR THE ANCHORAGE SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.
- THE DESIGN OF THE EQUIPMENT ANCHORAGE SHALL BE DONE IN ACCORDANCE TO THE 2015 INTERNATIONAL BUILDING CODE AND THE ASCE 7-10. TANKS OR EQUIPMENT MOUNTED TO A PLATFORM, BUILDING OR OTHER STRUCTURE SHALL BE DESIGNED AS A "NONSTRUCTURAL COMPONENT" PER CHAPTER 13 OF ASCE 7-10. TANKS OR EQUIPMENT MOUNTED TO A CONCRETE FOUNDATION SHALL BE DESIGNED AS A "NONBUILDING STRUCTURE" PER CHAPTER 15 OF ASCE 7-10. REFER TO DESIGN CRITERIA ON THIS SHEET.
- 3. ANCHORS INSTALLED IN CONCRETE SHALL MEET ALL OF THE REQUIREMENTS OF ACI 318-14, INCLUDING SEISMIC LOADING AND DUCTILE FAILURE REQUIREMENTS. THE EMBEDMENT OF ANCHORS IN CONCRETE SHALL BE AS MEASURED FROM THE TOP OF THE FOUNDATION. THE PORTION OF ANCHORS IN CONCRETE HOUSEKEEPING PADS, WHERE SUCH PADS OCCUR, SHALL NOT BE INCLUDED IN THE EMBEDMENT OF THE ANCHORS UNLESS OTHERWISE NOTED.
- 4. ANCHORS EMBEDDED IN CONCRETE SHALL BE GALVANIZED CAST-IN-PLACE ANCHOR BOLTS OR POST-INSTALLED ADHESIVE ANCHORS. EXPANSION ANCHORS MAY NOT BE USED FOR EQUIPMENT, PREFABRICATED BUILDING OR TANK ANCHORAGE TO CONCRETE.

SPECIAL INSPECTION REQUIRED

SPECIAL INSPECTIONS REQUIRED FOR THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN BUILDING CODE CHAPTER 17. SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN APPROVED INSPECTION AGENCY U.N.O, EMPLOYED BY THE OWNER.

THE SPECIAL INSPECTOR SHALL BE CERTIFIED BY THE INTERNATIONAL CODE COUNCIL (I.C.C.) TO PERFORM INSPECTION FOR THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND/OR THE ENGINEER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE STRUCTURAL ENGINEER AND TO THE BUILDING OFFICIAL.

THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THIS CODE.

IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE AT LEAST 48 HOURS ADVANCE NOTICE TO THE OWNER/OWNER'S REPRESENTATIVE WHEN HIS WORK IS READY FOR ANY REQUIRED SPECIAL INSPECTIONS.

SHOP INSPECTION OF STEEL CONSTRUCTION IS NOT REQUIRED WHEN THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

CONTRACTOR RESPONSIBILITY

OWNER OR OWNER'S REPRESENTATIVE SHALL BE SYNONYMOUS WITH 'BUILDING OFFICIAL' IN THE FOREGOING IF THE PROJECT IS NOT UNDER THE JURISDICTION OF A BUILDING DEPARTMENT.

SPECIAL INSPECTION SHALL BE PROVIDED FOR THE FOLLOWING TYPES OF WORK PERFORMED IN THE FIELD, OR NOT PERFORMED IN AN APPROVED FABRICATION SHOP AS DEFINED ABOVE, UNLESS NOTED AS "N/A".

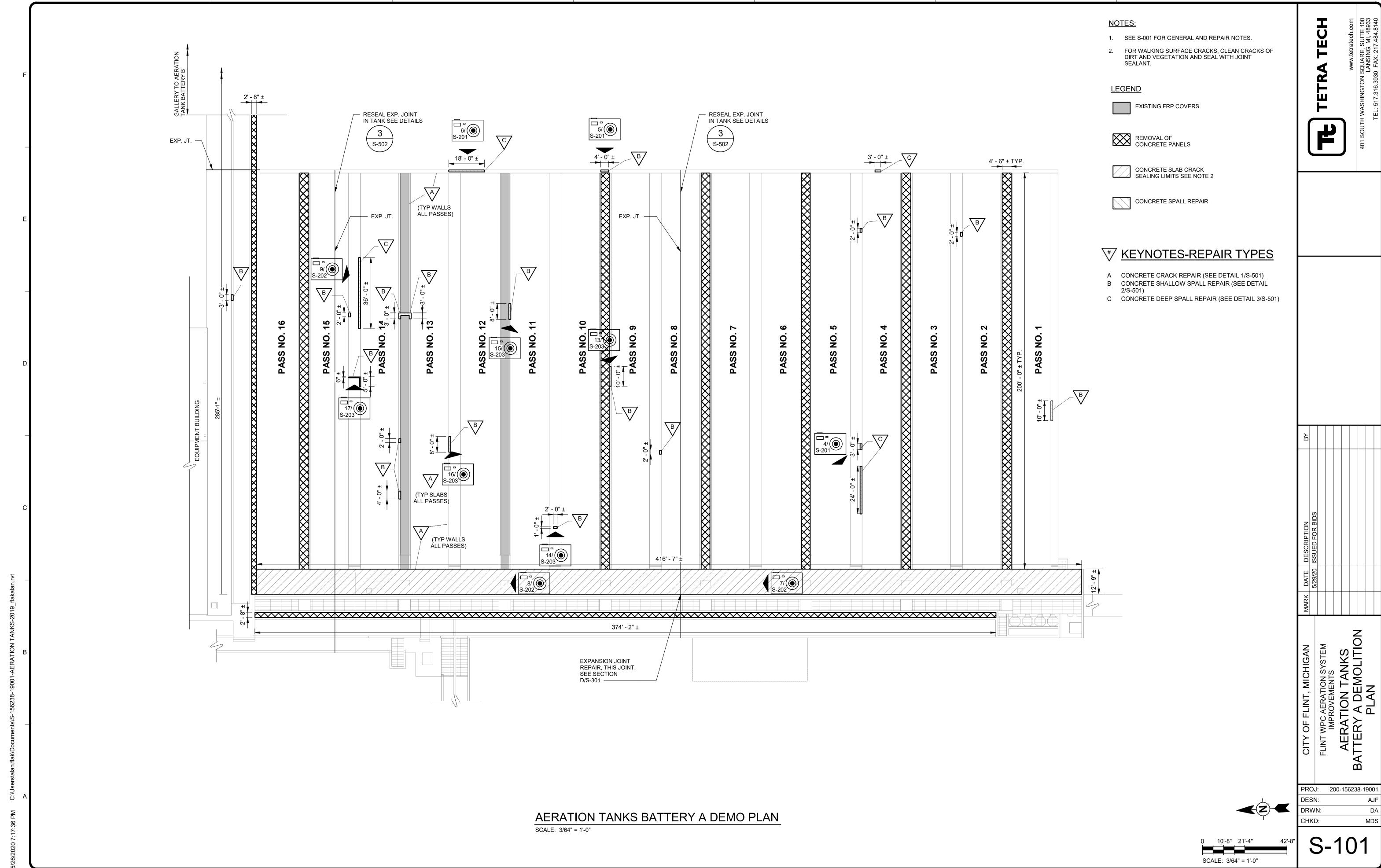
		SPECIAL INSPECTIONS REQUIRED ("X" = YES "-" = I		- 1
		CONTINUOUS	PERIODIC	N/A
CC	NCRETE CONSTRUCTION:			
1.	INSPECTION OF REINFORCING STEEL AND PLACEMENT.	-	Х	-
3.	INSPECTION OF ANCHORS CAST IN CONCRETE.	-	Х	-
4.	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.			
	A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS.	х	-	-
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4. A.	-	Х	-
5.	VERIFYING USE OF REQUIRED DESIGN MIX.	-	Х	-
6.	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR. CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	-
7.	INSPECTION OF CONCRETE FOR PROPER APPLICATION TECHNIQUES.	×	-	-
8.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	Х	-
9.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED.	-	Х	-

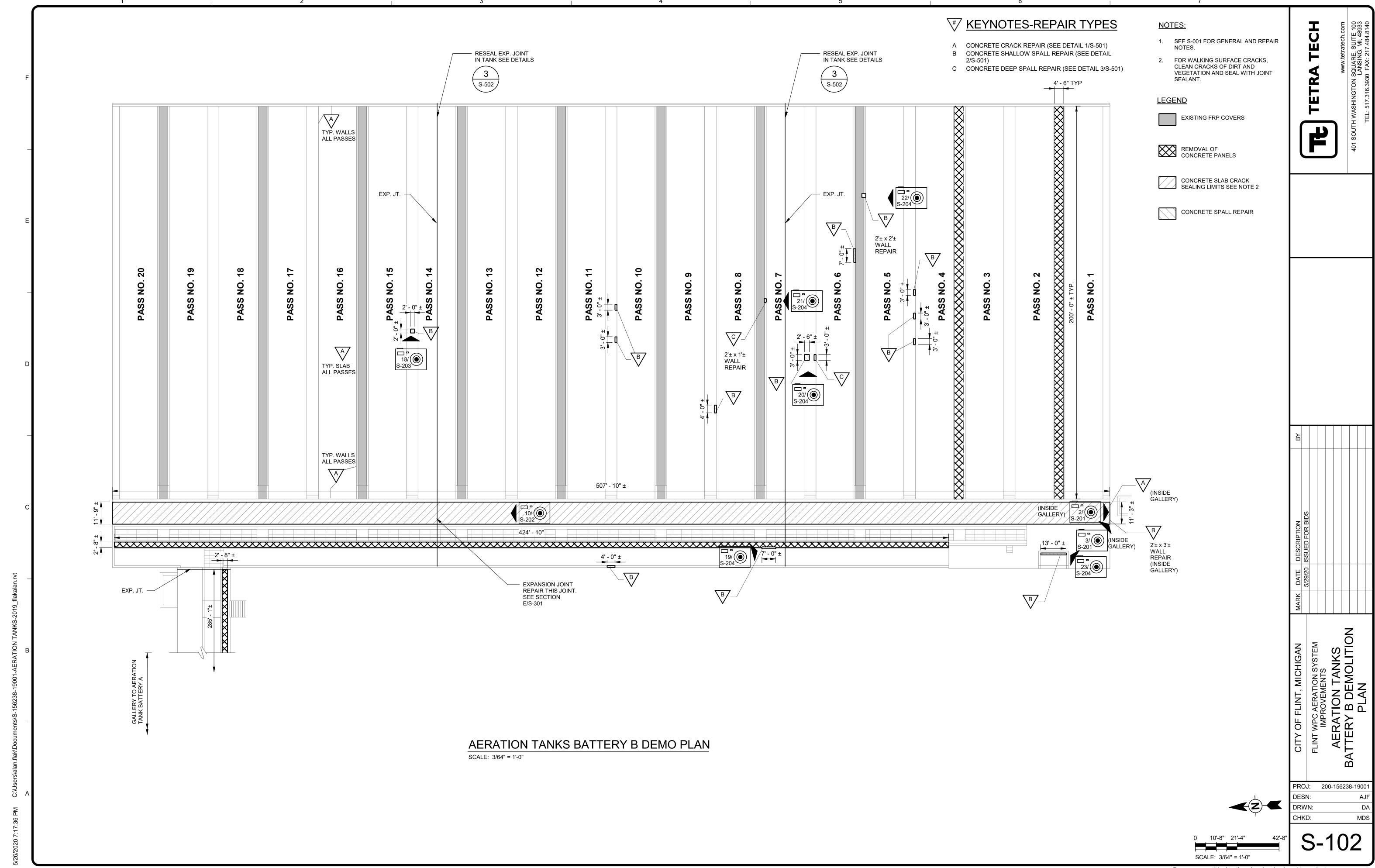
	SPECIAL INSPECTIONS REQUIRED ("X" = YES "-" = NO		
	CONTINUOUS	PERIODIC	N/A
METAL CONSTRUCTION (STRUCTURAL STEEL/ALUMINUM):			
R - INSPECT THESE ITEMS ON A <u>RANDOM</u> BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS			
C - INSPECT THESE ITEMS ON A <u>CONTINUOUS</u> BASIS			
1. INSPECTION TASKS PRIOR TO WELDING:	С	R	N/A
A. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE.	X	_	_
B. MANUFACTURERS CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	X	-	_
C. MATERIAL IDENTIFICATION (TYPE/GRADE).	-	X	-
D. WELDER IDENTIFICATION SYSTEM.	-	X	_
E. FIT-UP OF GROOVE WELDS (INCLUDING GEOMETRY). - JOINT PREPARATION. - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL). - CLEANLINESS (CONDITION OF STEEL SURFACES). - TACKING (TACK WELD QUALITY AND LOCATION). - BACKING TYPE AND FIT (IF APPLICABLE).	-	х	-
F. CONFIGURATION AND FINISH OF ACCESS HOLES.	-	X	-
G. FIT-UP OF FILLET WELDS DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION)	-	Х	-
2. INSPECTION TASKS DURING WELDING			
A. USE OF QUALIFIED WELDERS	-	Х	-
B. CONTROL AND HANDLING OF WELDING CONSUMABLES - PACKAGING - EXPOSURE CONTROL	-	Х	-
C. NO WELDING OVER CRACKED TACK WELDS	-	Х	-
D. ENVIRONMENTAL CONDITIONS - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	-	х	-
E. WPS FOLLOWED - SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTED WELDING MATERIALS - SHIELDING GAS TYPE/FLOW RATE - PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) - PROPER POSITION (F, V, H, OH)	-	X	-
F. WELDING TECHNIQUES			
- INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEETS QUALITY REQUIREMENTS	-	X	-
3. INSPECTION TASKS AFTER WELDING			
A. WELDS CLEANED	-	Х	-
B. SIZE, LENGTH AND LOCATION OF WELDS	X	-	-
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELD/BASE-METAL FUSION - CRATER CROSS SECTION - WELD PROFILES - WELD SIZE - UNDERCUT - POROSITY	X	-	-
D. ARC STRIKES	X	-	-
E. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X	-	-
F. REPAIR ACTIVITIES	X	-	-
G. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Х	-	-
4. INSPECTION TASKS PRIOR TO BOLTING			
A. MANUFACTURER'S CERTIFICATION AVAILABLE FOR FASTENER MATERIAL.	X	-	-
B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	-	X	-
C. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FORM SHEAR PLANE).	-	×	-
D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	-	X	-
E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	-	Х	-
F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	-	×	-
G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS.	-	Х	-
5. INSPECTION TASKS DURING BOLTING.			
A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	-	Х	-
B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION. C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FOR	-	X	-
D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID	-	×	-
POINT TOWARD THE FREE EDGES.			
6. INSPECTION TASKS AFTER BOLTING.			

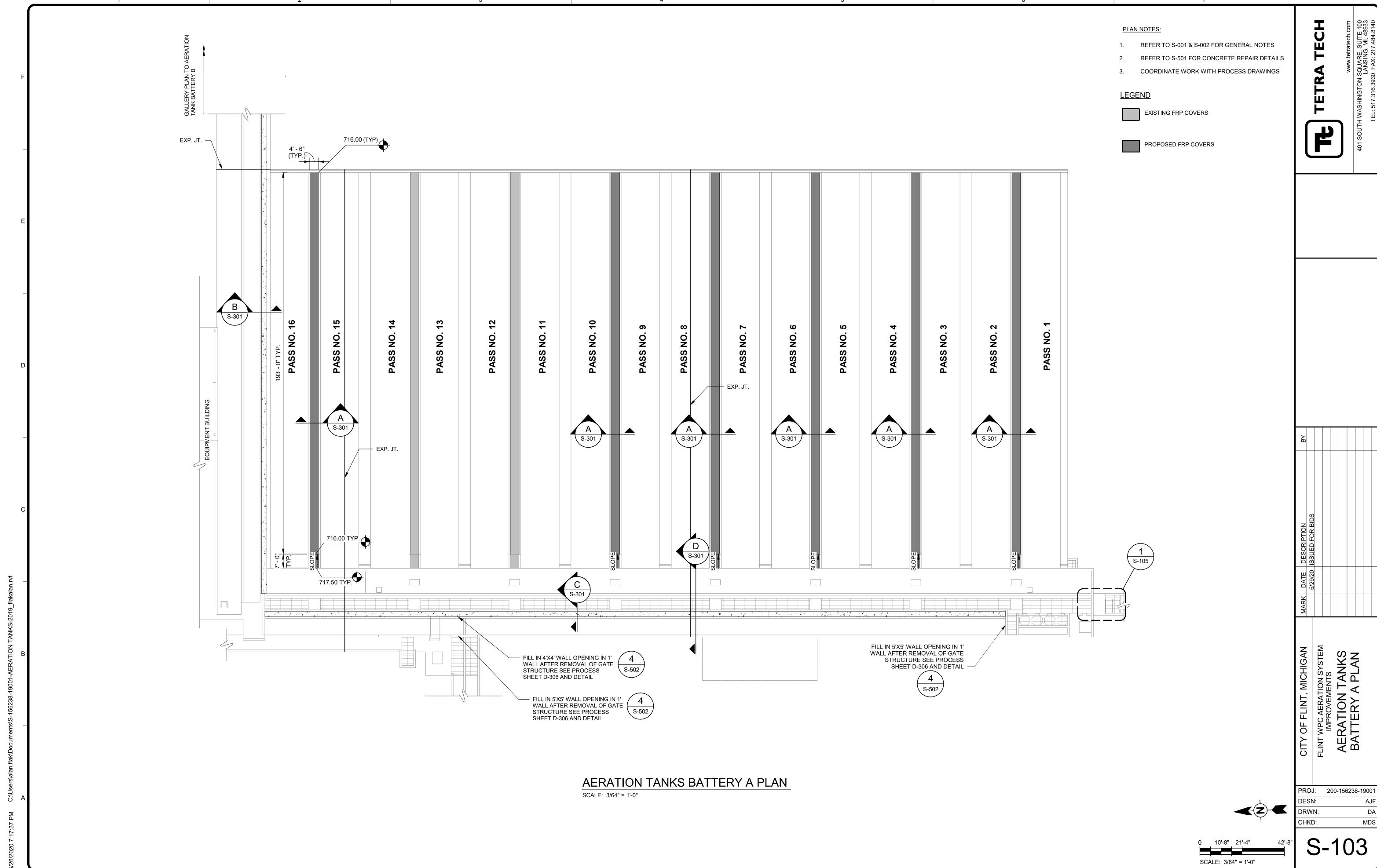
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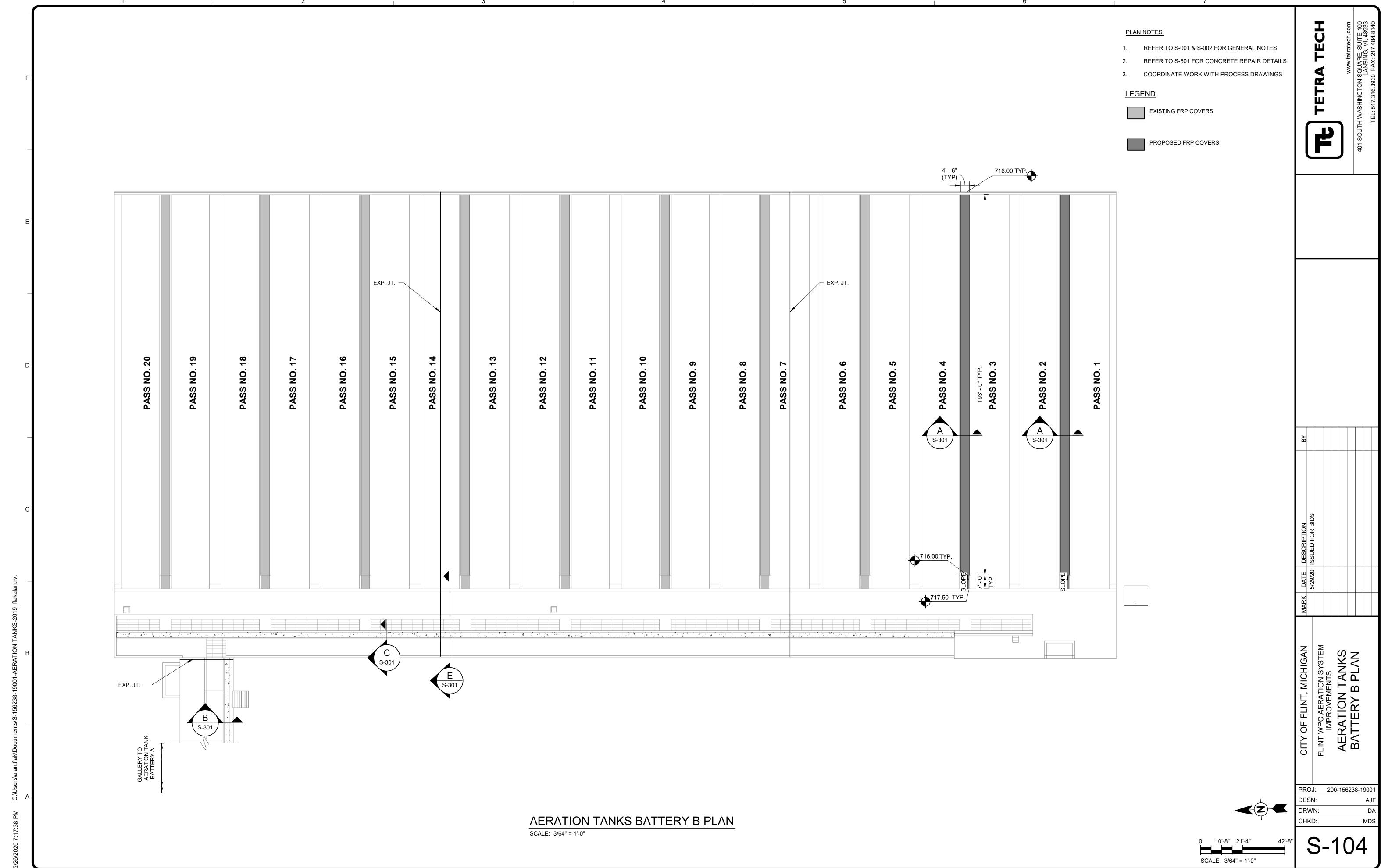
Bar measures 1 inch, otherwise drawing is not to scale

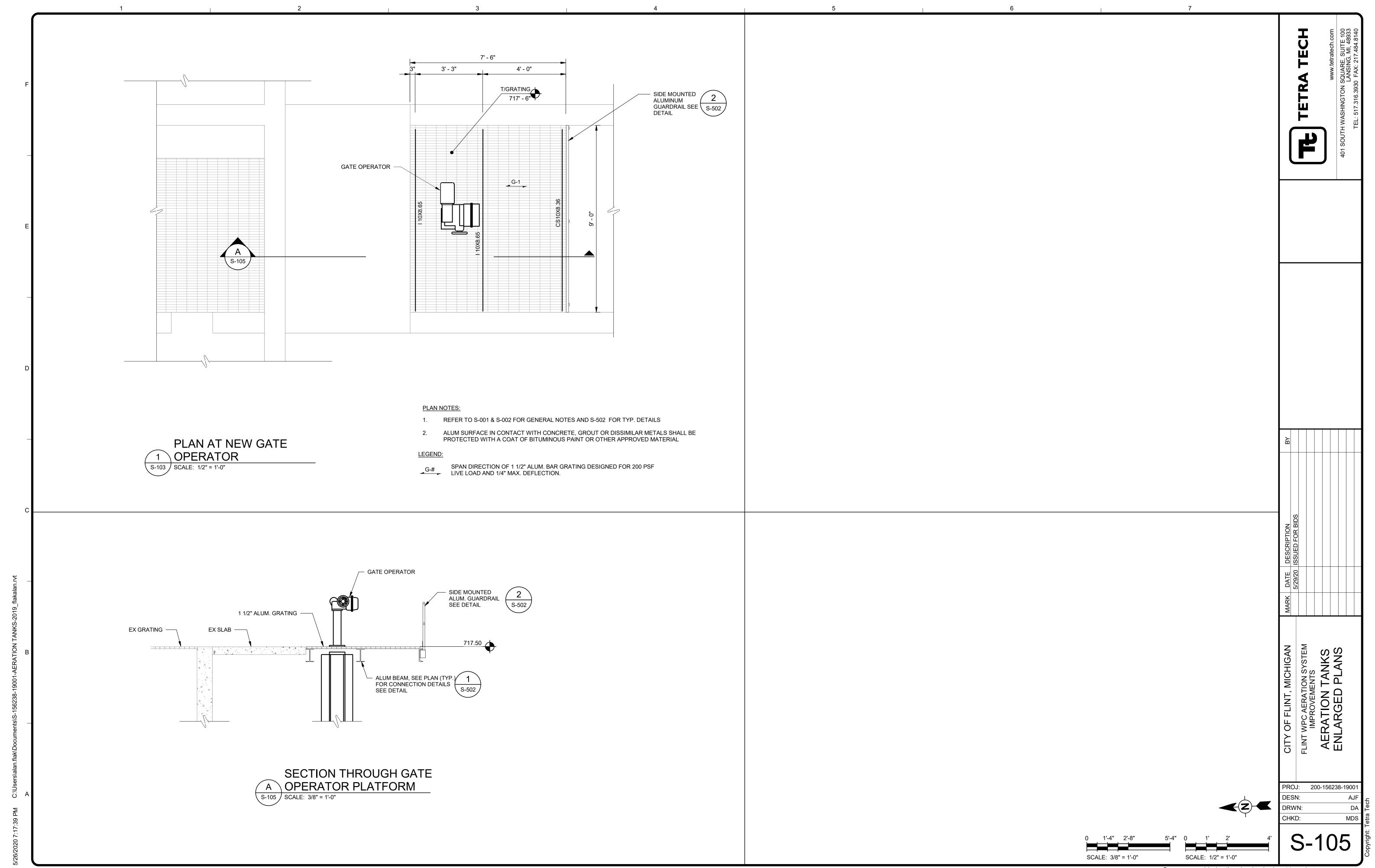
SPECIAL INSPECTIONS



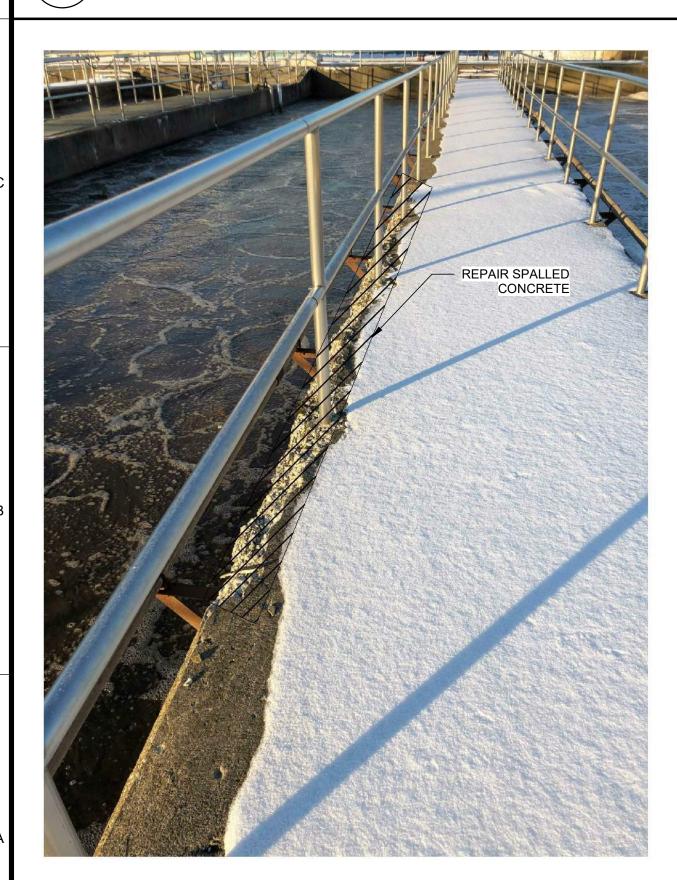








1 BATTERY B EXP JT REPAIR
SCALE: NTS



REPAIR BATTERY A NORTH
WALL PASS NO. 4



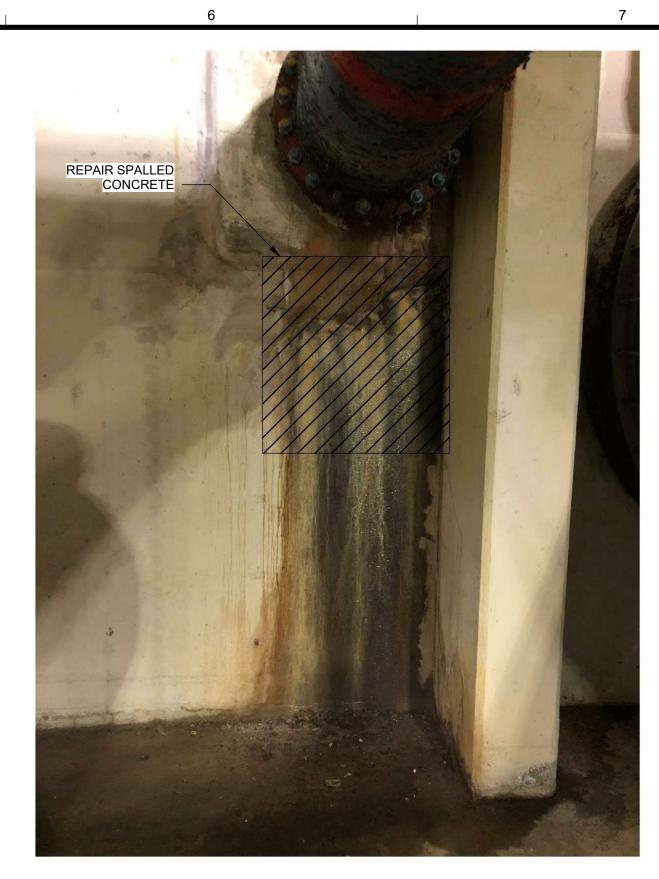
AIR PIPE PENETRATION
REPAIR IN GALLERY END OF
BATTERY B
SCALE: NTS



EAST WALL REPAIR BATTERY A
BETWEEN PASS NO. 9 AND

5 PASS NO. 10

SCALE: NTS



RETURN SLUDGE PIPE
PENETRATION REPAIR IN
GALLERY END OF BATTERY B
SCALE: NTS



EAST WALL REPAIR BATTERY A
PASS NO. 12
SCALE: NTS

CITY OF FLINT, MICHIGAN

FLINT WPC AERATION SYSTEM
IMPROVEMENTS

TRUCTURAL REPAIR

PHOTOS

PROJ: 200-156238-19001

DESN: AJF

DRWN: DA

CHKD: MDS



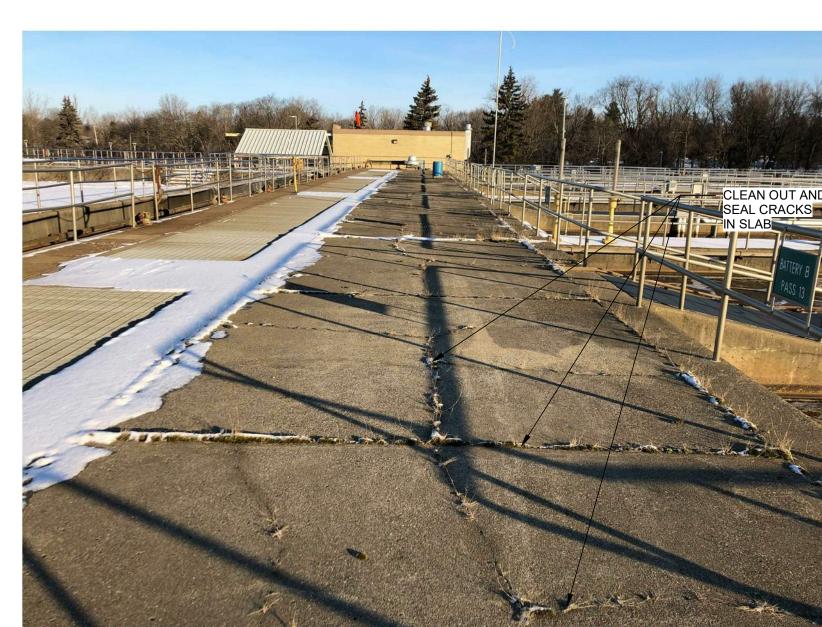


REPAIR SPALLED CONCRETE AROUND EXPANSION JOINT

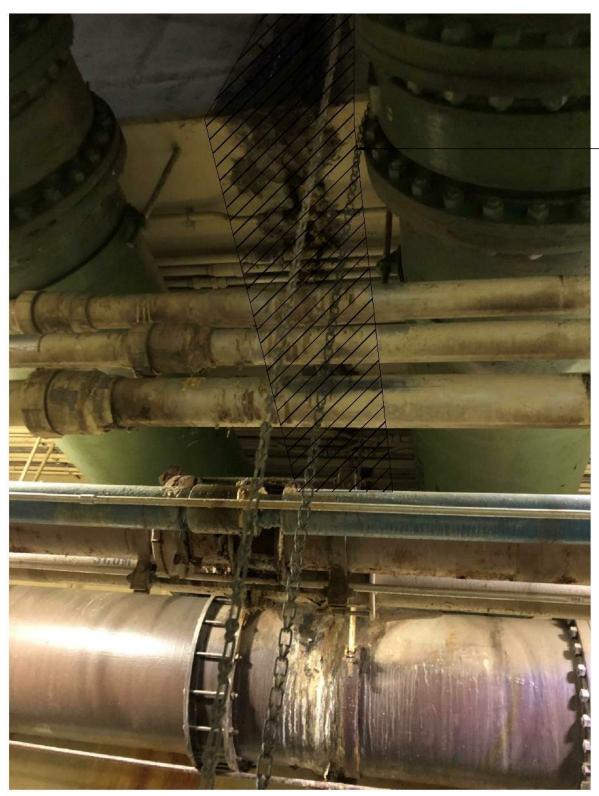




WALL REPAIR BATTERY A 9 NORTH WALL PASS NO. 14



BATTERY B GALLERY TOP 10 SLAB SCALE: NTS



BATTERY A EXP JT REPAIR AT 11 CHANNEL SCALE: NTS



BATTERY A EXP JT REPAIR AT 12 TANK SCALE: NTS

PROJ: 200-156238-19001 CHKD:

REPAIR BATTERY A NORTH

13 WALL PASS NO. 9

SCALE: NTS



SLAB REPAIR BATTERY A
BETWEEN PASS NO. 10 AND

14 PASS NO. 11
SCALE: NTS

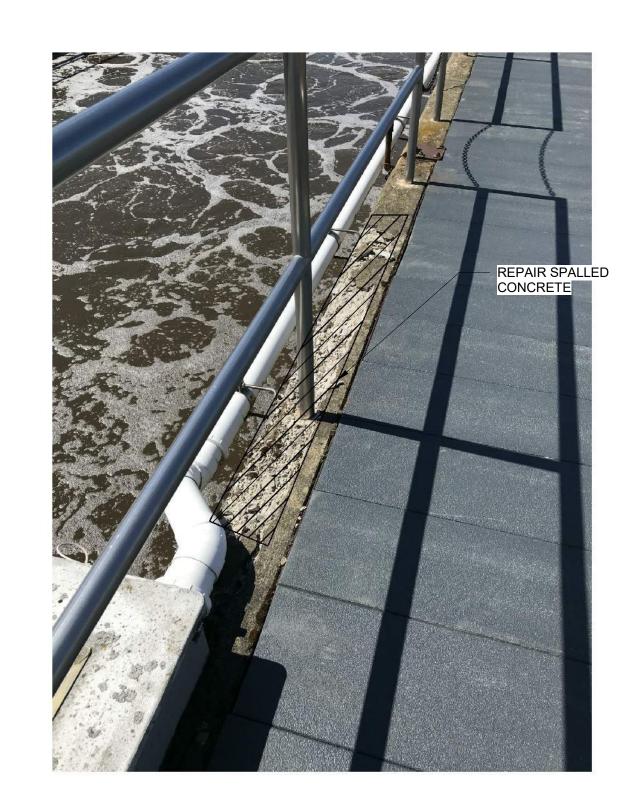


REPAIR BATTERY A NORTH

SCALE: NTS

NORTH

SCALE: NTS



REPAIR BATTERY A SOUTH

16 WALL PASS NO. 13

SCALE: NTS



SLAB REPAIR BATTERY A
BETWEEN PASS NO. 14 AND
PASS NO. 15
SCALE: NTS



SLAB REPAIR BATTERY B
BETWEEN PASS No. 14 AND
PASS NO. 15

SCALE: NTS

AN MARK DATE DESCRIPTION 5/29/20 ISSUED FOR BIDS
TEM
AIR

FLINT WPC AERATION SYSTEMPROVEMENTS
STRUCTURAL REP

PROJ: 200-156238-19001

DESN: Designer

DRWN: Author

CHKD: Checker

S-203

WALL REPAIR BATTERY B

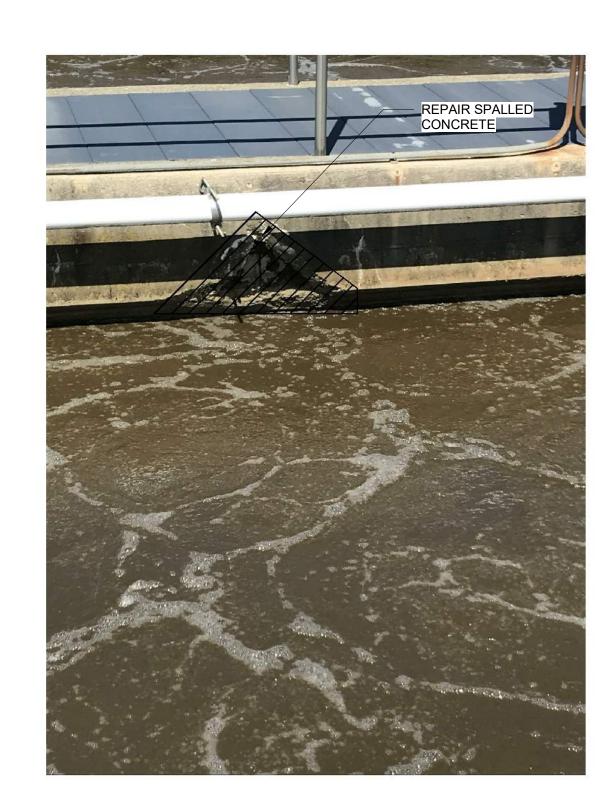
19 ALONG EFFLUENT CHANNEL

SCALE: NTS



REPAIR BATTERY B WALKWAY
BETWEEN PASS NO. 7 AND
PASS NO. 6

SCALE: NTS



WALL REPAIR BATTERY B

NORTH WALL PASS NO. 7

SCALE: NTS



REPAIR BATTERY B NORTH

22 WALL PASS NO. 5

SCALE: NTS



REPAIR BATTERY B AT SOUTH

STAIRWELL

SCALE: NTS

 T, MICHIGAN
 MARK DATE DESCRIPTION
 DESCRIPTION
 BY

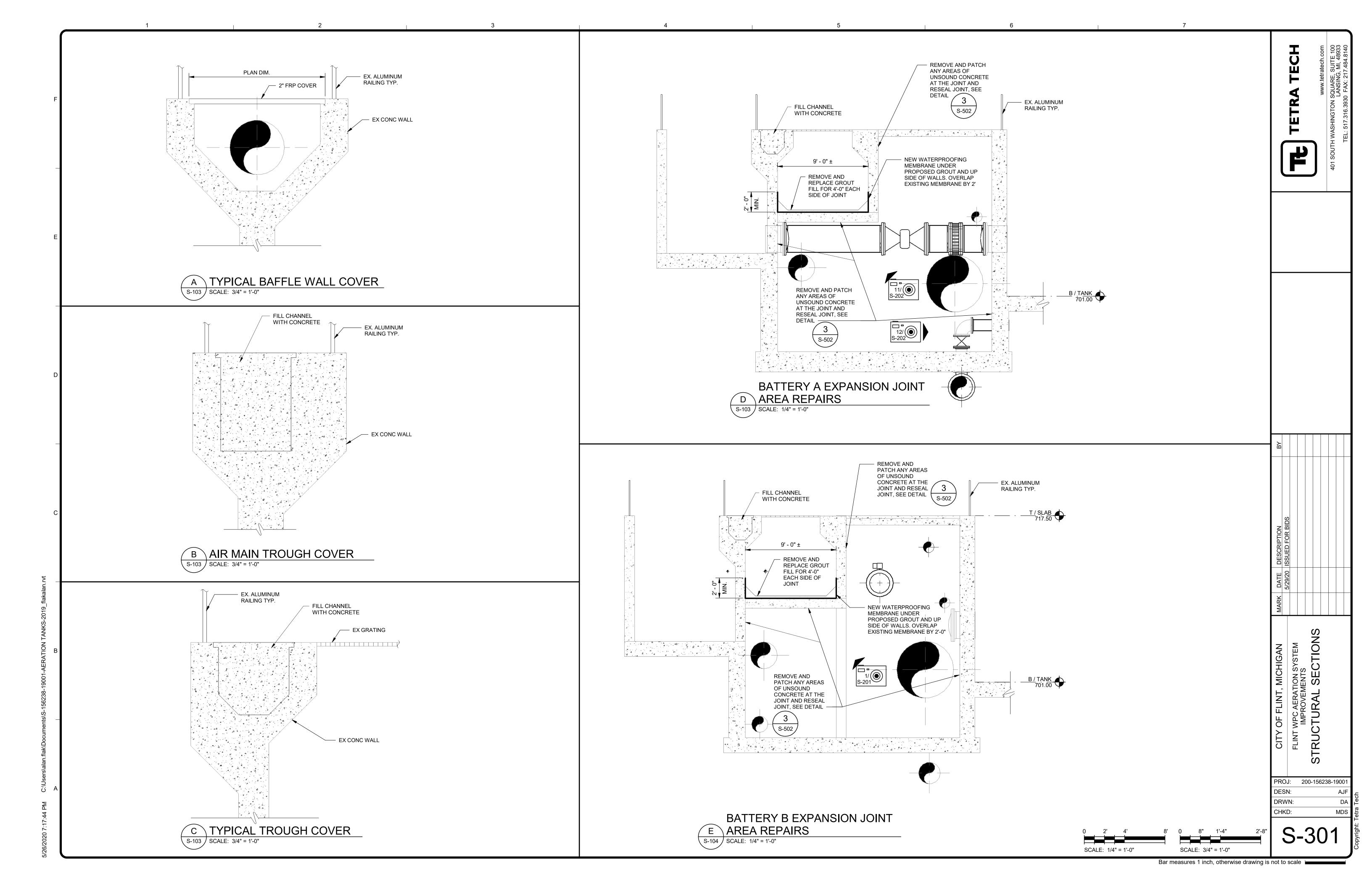
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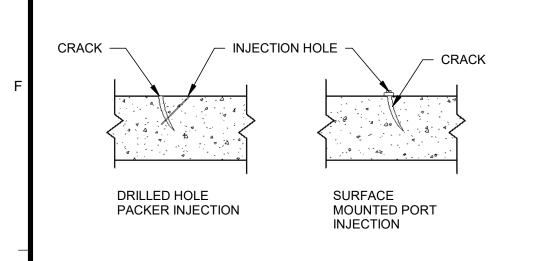
 AL REPAIR
 AL REPAIR
 BY

 TOS
 AL REPAIR
 BY

PROJ: 200-156238-19001
DESN: Designer
DRWN: Author
CHKD: Checker

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NOTES:

- 1. IDENTIFY CRACKS TO BE INJECTED. LOCATION OF CRACKS TO INJECTED ARE TO BE CONFIRMED AND APPROVED BY THE ENGINEER.
- 2. LOCATE REINFORCING STEEL IN CONCRETE STRUCTURE. LOCATE INJECTION HOLE POSITION AND WORK WITH CARE TO AVOID DAMAGE TO EXISTING REINFORCING STEEL. DRILL HOLE SIZED AS RECOMMENDED BY THE INJECTION MATERIAL MANUFACTURER, AT A 45 DEGREE ANGLE TO THE SURFACE, AND BEGINNING AT A DISTANCE AWAY FROM THE CRACK SO THAT THE DRILLED HOLE INTERCEPTS THE CRACK AT APPROXIMATELY ONE-HALF THE CONCRETE DEPTH.
- 3. INSERT INJECTION PACKERS AS RECOMMENDED BY THE INJECTION MATERIAL MANUFACTURER.INTO THE DRILLED HOLES AND TIGHTEN.
- 4. CLEAN CONCRETE SURFACE IN ACCORDANCE WITH SECTIONS 03930.
- 5. PUMP INJECTOR MATERIAL THROUGH THE INJECTION PACKER UNTIL THE HOLE WILL NOT TAKE MORE MATERIAL, OR THE MATERIAL IS NO LONGER VISIBLE SEEPING OUT OF THE CRACKS.
- 6. INJECTION MAY BE HORIZONTAL, VERTICAL OR OVERHEAD.
- 7. AFTER EPOXY ADHESIVE HAS SET, REMOVE INJECTION PORTS AND GRIND SURFACES SMOOTH.

PROVIDE 3/4" DEEP SAW **CUT AT PATCH PERIMETER;** EXISTING DETERIORATED **VARIES** DO NOT CUT REBAR SURFACE - EXIST. CONCRETE APPLY BONDING - EXISTING STEEL REINF. AGENT/SLURRY PRIOR TO PLACING CONCRETE - REMOVAL LIMITS BY CHIPPING REMOVAL LIMITS BY REMOVE SOUND AND SURFACE PREPARATION -UNSOUND CONCRETE AND INSTALL PATCH MATERIAL

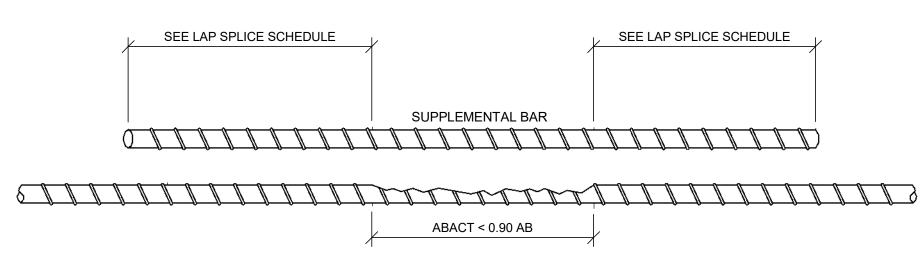
NOTES:

- 1. THIS DETAIL APPLIES TO DETERIORATED AREAS THAT ARE NOT DEEP ENOUGH TO IMPACT STEEL REINFORCEMENT AND ARE LOCATED AT THE TOP SIDE HORIZONTAL SURFACE WHERE A TRAFFIC MEMBRANE WILL BE APPLIED, OVERHEAD OR VERTICAL SURFACES.
- 2. REMOVE ALL DETERIORATED SOUND AND UNSOUND CONCRETE IN HATCHED AREA PER SECTION 03930 TO FORM RECTANGULAR AREA.
- 3. PREPARE PATCH AREA PER SECTION 03930.
- 4. PATCH MATERIAL SHALL BE AS SPECIFIED IN SECTION 03930 AS APPROVED BY ENGINEER.

APPLY CORROSION INHIBITOR TO EXPOSED REBAR PROVIDE 3/4" DEEP SAW CUT AT PATCH PERIMETER; - EXISTING DETERIORATED **VARIES** DO NOT CUT REBAR SURFACE EXIST. CONCRETE APPLY BONDING - EXISTING STEEL REINF. AGENT/SLURRY PRIOR TO PLACING CONCRETE - REMOVAL LIMITS BY CHIPPING REMOVAL LIMITS BY REMOVE SOUND AND SURFACE PREPARATION -UNSOUND CONCRETE AND INSTALL PATCH MATERIAL

NOTES:

- 1. THIS DETAIL APPLIES TO DETERIORATED AREAS THAT ARE DEEP ENOUGH TO IMPACT STEEL REINFORCEMENT AND ARE LOCATED AT THE TOP SIDE HORIZONTAL SURFACE WHERE A TRAFFIC MEMBRANE WILL BE APPLIED, OVERHEAD OR VERTICAL SURFACES.
- REMOVE ALL DETERIORATED SOUND AND UNSOUND CONCRETE IN HATCHED AREA PER SECTION 03930 TO FORM RECTANGULAR AREA
- 3. PREPARE PATCH AREA PER SECTION 03930, INCLUDING CLEANING AND COATING OF REINFORCEMENT.
- 4. MINIMUM CLEAR DISTANCE BETWEEN REBAR AND CONCRETE DEMOS SHALL BE 3/4".
- PATCH MATERIAL SHALL BE AS SPECIFIED IN SECTION 03930 AS APPROVED BY ENGINEER



NOTES:

- 1. SUPPLEMENTAL BAR SHALL BE TIED TO EXISTING BAR
- . ABACT = EXISTING CROSS SECTIONAL AREA OF REBAR.
- A_b= ORIGINAL CROSSSECTIONAL AREA OF REBAR
- CLASS B LAP SPLICE LENGTH BASED ON ACI 318
 CONTRACTOR TO USE MECHANICAL SPLICE
- CONTRACTOR TO USE MECHANICAL SPLICE
 CONNECTORS AS DIRECTED BY ENGINEER IN LIEU OF LAP
 SPLICE

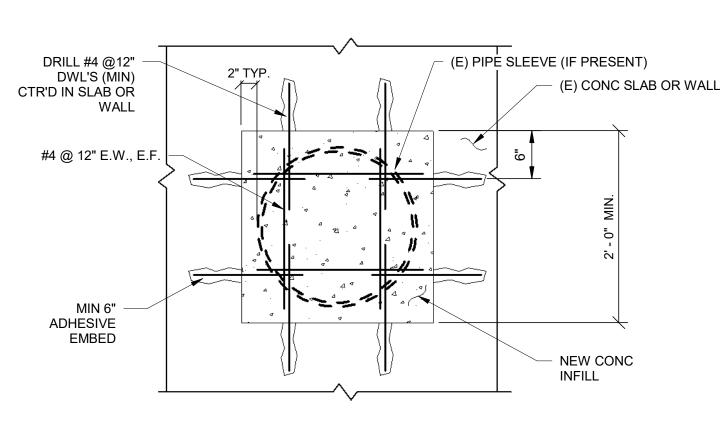
	LAP SPLICE SCHEDULE LENGTH (IN)								
NOMINAL	DIAMETER OF BAR d _b (IN.)	DEPTH OF CONCRETE COVER OVER BAR C _b							
BAR#		C _b <1"	1" <u><</u> C _b <1.25"	1.25" <u><</u> C _b <1.5"	1.5" <u><</u> C _b <1.75"	1.75" <u><</u> C _b <2"			
4	0.5	11	10	9	8	8			
5	0.625	17	15	14	12	12			
6	0.75	25	22	20	18	17			
7	0.875	34	30	27	24	22			
8	1	44	39	35	32	30			

1 CONCRETE CRACK INJECTION SCALE: NTS







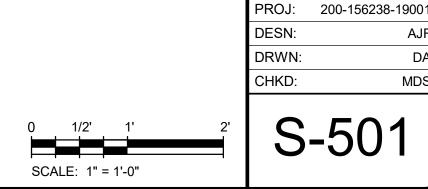


NOTES:

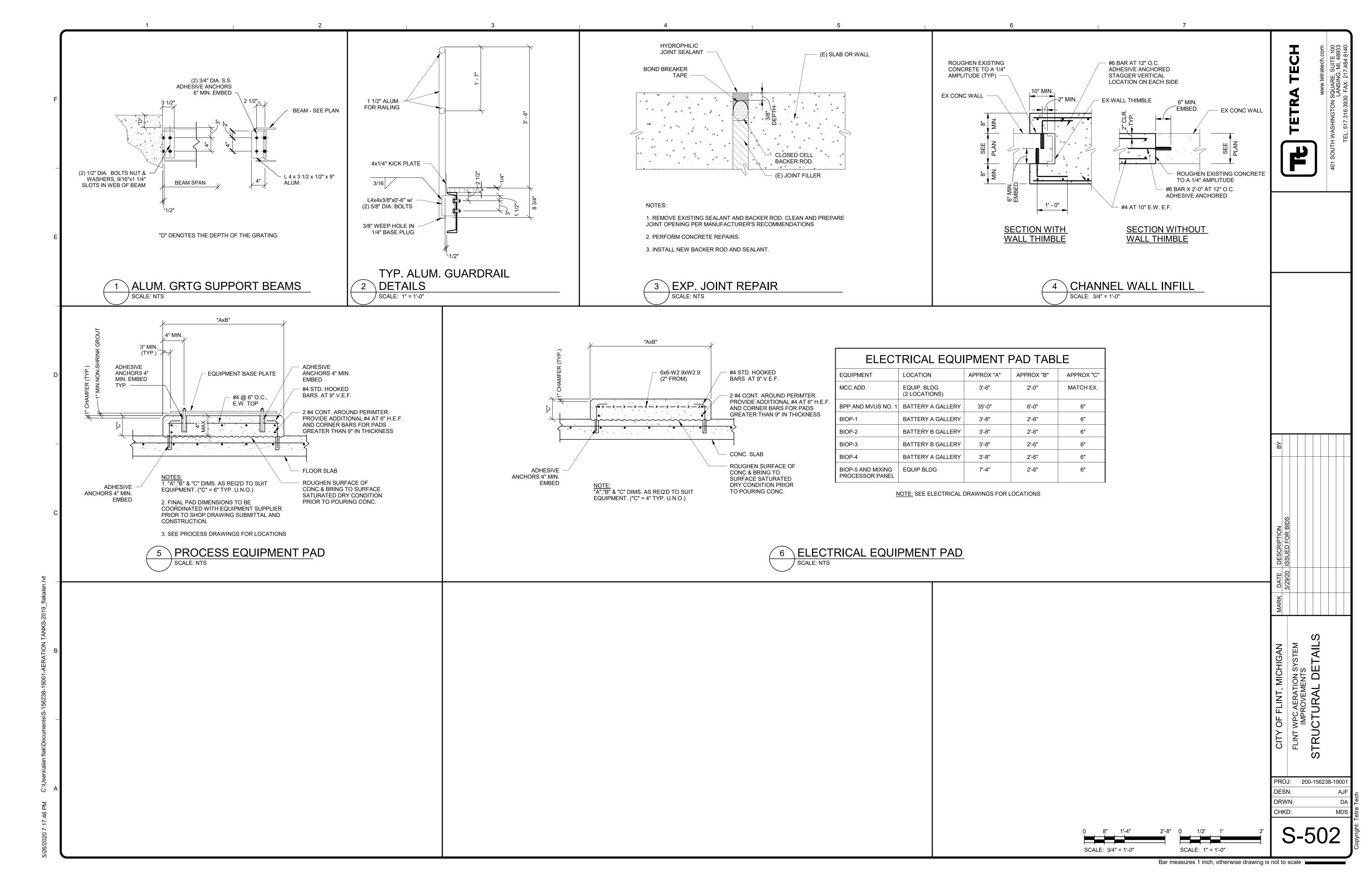
- 1. THIS DETAIL APPLIES TO CIRCULAR PIPE OPENINGS TO BE
- CORE WALL TO REMOVE EXISTING PIPE IF PRESENT, CUT HOLE IN A SQUARE DIMENSION, REPAIR AS NOTED.
- 3. SEE PROCESS DRAWINGS FOR LOCATIONS AND PIPE SIZES

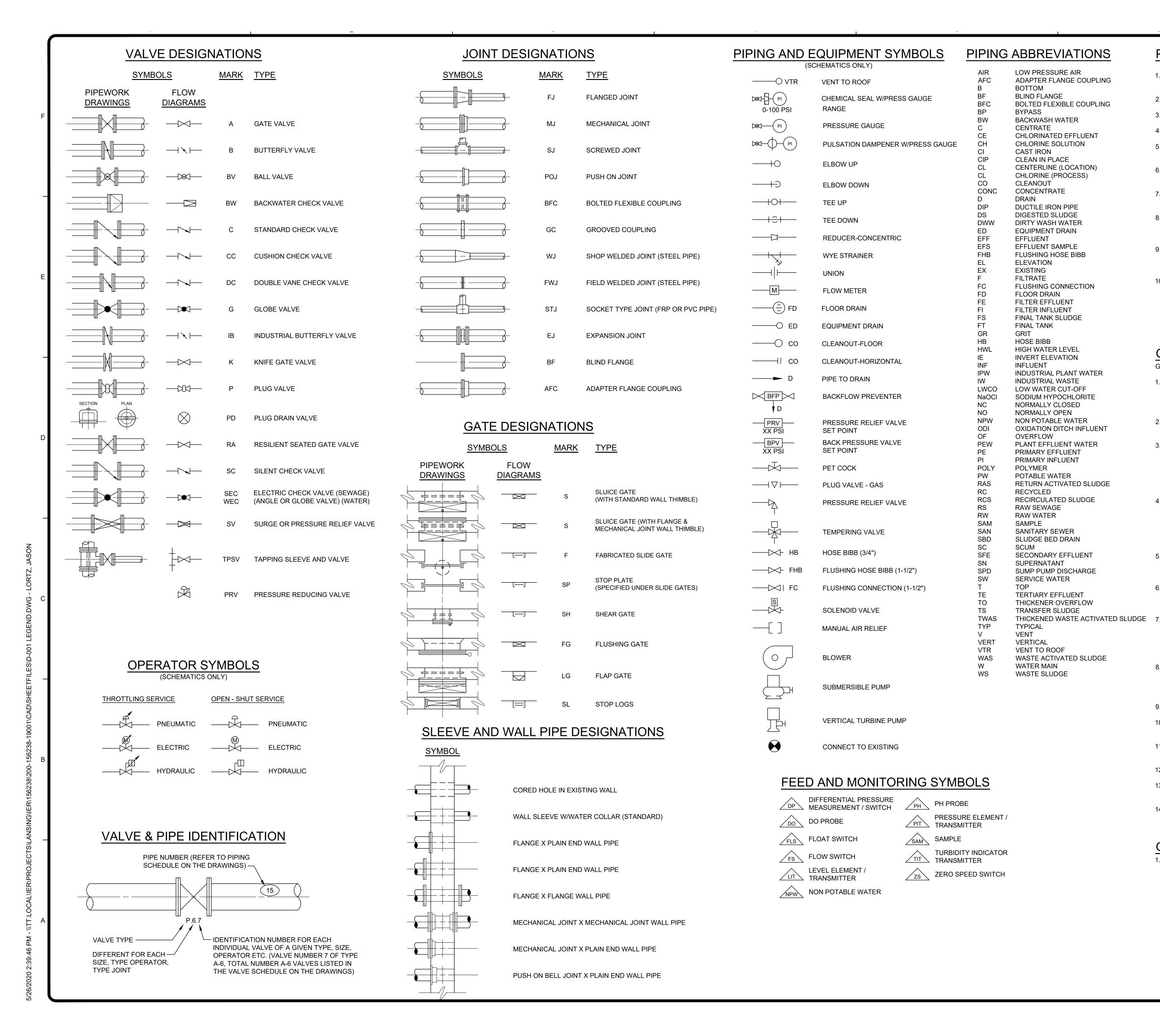
5 INFILL

SCALE: 1" = 1'-0"



U





PIPING AND VALVE GENERAL NOTES

- 1. INSTALL ALL PIPING SUPPORTS AND PIPING IN ACCORDANCE WITH THE LATEST EDITION OF THE ASME ANSI POWER PIPING CODE B 31.1.
- 2. LOCATE PRESSURE TAPS ON THE TOP OF PROCESS PIPES.
- 3. LOCATE SAMPLE TAPS ON THE SIDE OF PROCESS PIPES.
- 4. LOCATE DRAIN TAPS ON THE BOTTOM OF PROCESS PIPES.
- 5. UNLESS OTHERWISE NOTED PIPE ELEVATIONS SHOWN ON PIPING DRAWINGS REFER TO CENTERLINE OF THE PIPE.
- 6. INSTALL ALL PLUG, BUTTERFLY AND BALL VALVES WITH THE SHAFT IN THE HORIZONTAL POSITION, UNLESS OTHERWISE DIRECTED.
- ALL HARDWARE TO BE 304 OR 316 STAINLESS STEEL INCLUDING NUTS, BOLTS, WASHERS, ANCHORS, STRUT, HANGERS, ETC.
- 8. ALL NEW PIPING AND VALVES SHALL BE PAINTED. EX. RAS, PRIMARY EFFLUENT, AERATION EFFLUENT AND AIR SUPPLY PIPING IN BATTERY A AND B GALLERIES SHALL BE CLEANED AND REPAINTED. PIPING COLORS SHALL MATCH EXISTING.
- 9. WORK INDICATED TO BE PERFORMED ON ENLARGED PLANS AND SECTIONS SHALL BE TYPICAL OF ALL TANKS AND GALLERIES IN BOTH BATTERY A AND B. COORDINATE WITH SHEETS D-003 AND 004.
- 10. CONTRACTOR SHALL MODIFY EXISTING SUPPORTS AND ADD ADDITIONAL PIPE SUPPORTS AND HANGERS TO SUPPORT MODIFIED PIPING AND VALVE INSTALLATION

GENERAL DEMOLITION NOTES

GENERAL DEMOLITION NOTES FOR ALL SHEETS AND ALL DISCIPLINES:

- 1. DEMOLITION DRAWINGS MAY NOT SHOW ALL DEMOLITION WORK REQUIRED UNDER THIS CONTRACT. OTHER CONTRACT DRAWINGS MAY ALSO SHOW DEMOLITION WORK. COORDINATE DEMOLITION WITH REQUIREMENTS LISTED IN SECTION 01110 OF THE PROJECT MANUAL.
- 2. SITE INVESTIGATION PRIOR TO BIDS IS RECOMMENDED TO DETERMINE THE COMPLETE EXTENT OF DEMOLITION REQUIRED.
- WHEN EQUIPMENT ITEMS ARE INDICATED FOR DEMOLITION, ALL ANCILLARY UTILITIES, ELECTRICAL ITEMS, CONCRETE SUPPORTS AND STRUCTURAL STEEL SUPPORTS SHALL BE COMPLETELY REMOVED UNLESS INDICATED OTHERWISE. ALL THE ABOVE MENTIONED ITEMS MAY NOT BE INDICATED ON THE DRAWINGS. SITE VISIT PRIOR TO BID DATE IS RECOMMENDED TO QUANTIFY COMPLETE EXTENT OF EQUIPMENT DEMOLITION.
- CONCRETE FLOOR SLABS UNDER DEMOLISHED CONCRETE EQUIPMENT PADS, THAT WILL BE EXPOSED IN THE FINISHED CONSTRUCTION SHALL BE PATCHED SMOOTH AND ANY DOWELS OR ANCHORS SHALL BE CUT OFF 2" BELOW THE SURFACE AND PATCHED SMOOTH. IF REQUIRED, EXISTING FLOOR SURFACE SHALL BE CHIPPED OR ROUGHENED AND PATCH APPLIED OVER BONDING
- 5. ALL PIPING SHOWN AS BEING DEMOLISHED SHALL BE COMPLETELY REMOVED INCLUDING INSULATION, HANGERS, EXPANSION AND ANCHOR BOLTS AND PIPE SUPPORTS. CAP PIPES LEFT IN PLACE AS REQUIRED.
- 6. EXPANSION AND ANCHOR BOLTS REMAINING IN WALL, CEILINGS OR FLOORS SHALL BE POUNDED OR CUT FLUSH WITH THE SURFACE. IN FINISHED AREAS THEY SHALL BE RECESSED AND PATCHED TO MATCH THE EXISTING FINISH.
- ALL OPENINGS REMAINING IN FLOORS, WALLS OR CEILINGS, INCLUDING SLEEVES, AFTER PIPE OR CONDUIT DEMOLITION SHALL BE PATCHED TO MATCH THE EXISTING FINISH AND AS DETAILED ON THE DRAWINGS. PENETRATIONS BETWEEN AREAS LABELED NEMA 4 AND NEMA 7 SHALL BE
- PAINTED PIPING MAY CONTAIN LEAD PAINT. THEREFORE REMOVAL OF PAINT MAY ONLY BE DONE BY HAND TOOL SCRAPING OR CHEMICAL MEANS. THE USE OF MECHANICAL GRINDERS, SANDING OR USE OF TORCHES TO CUT IS NOT PERMITTED.
- 9. FLOOR DRAINS SHALL BE PROTECTED FROM DIRT AND DEBRIS.
- 10. PIPE TO BE REMOVED AND REPLACED IS TO BE REPLACED IN KIND UNLESS NOTED OTHERWISE
- 11. COORDINATE WITH OWNER DURING ANY INTERRUPTION OF SW PIPING, SO THAT THAT OPERATION OF THE PROCESS EQUIPMENT IS NOT EFFECTED.
- 12. REVIEW WORK ITEMS WITH ENGINEER PRIOR TO PERFORMING WORK.
- 13. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL MATERIALS GENERATED DURING DEMOLITION WORK.
- 14. FLINT WPC STAFF WILL ATTEMPT TO FLUSH RESIDUAL MATERIAL FROM AERATION TANKS AND CHANNELS PRIOR TO CONTRACTOR PERFORMING WORK. CONTRACTOR SHALL BE PREPARE TO HANDLE 4" OF RESIDUAL MATERIAL IN TANKS.

GENERAL NOTES

SEALED GAS TIGHT.

1. FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL.

TETRA TEC

SOUTH WASHINGTON SC

SS LEGEND ERAL NOTES

PROJ: 200-156238-19001

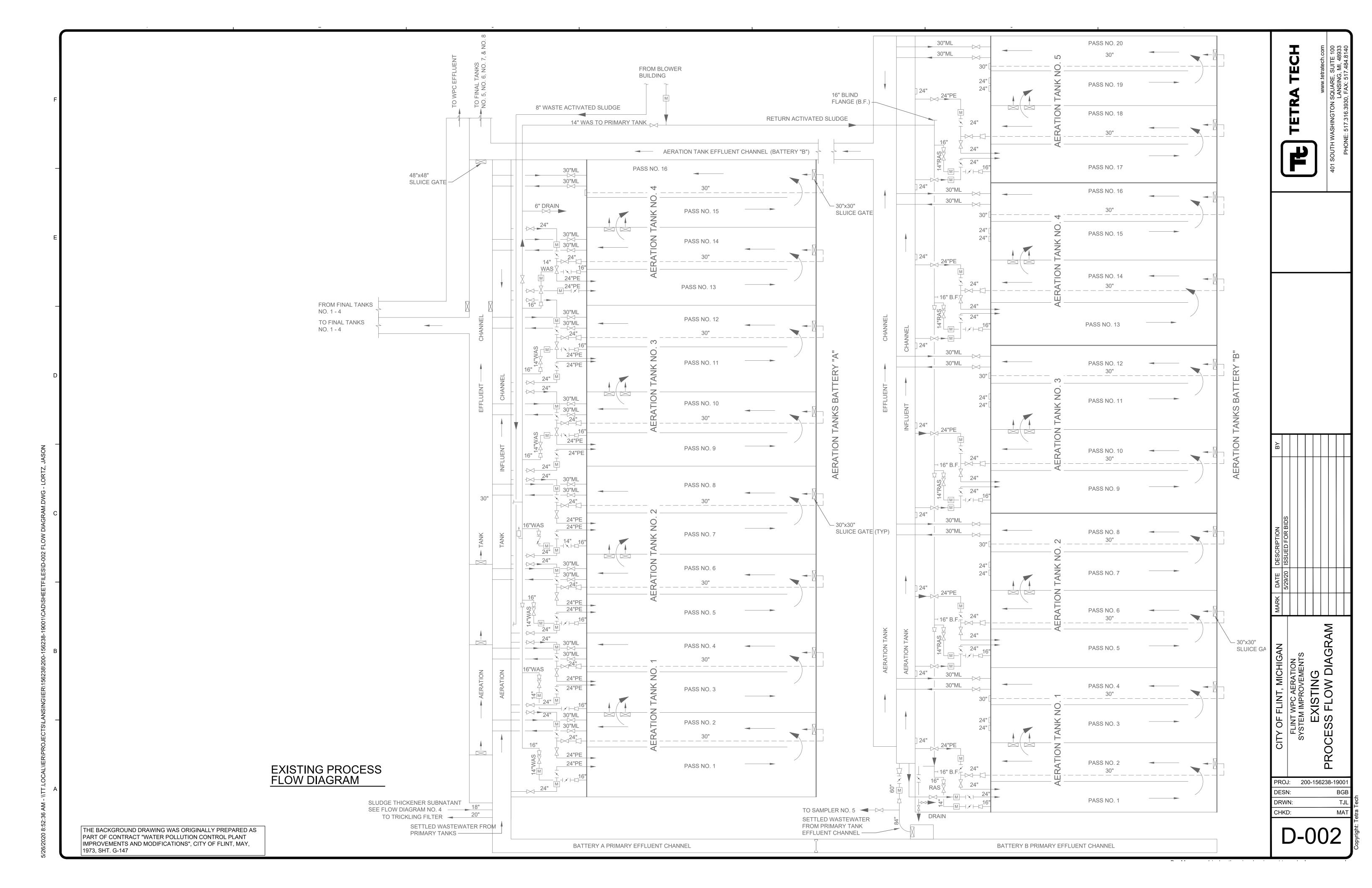
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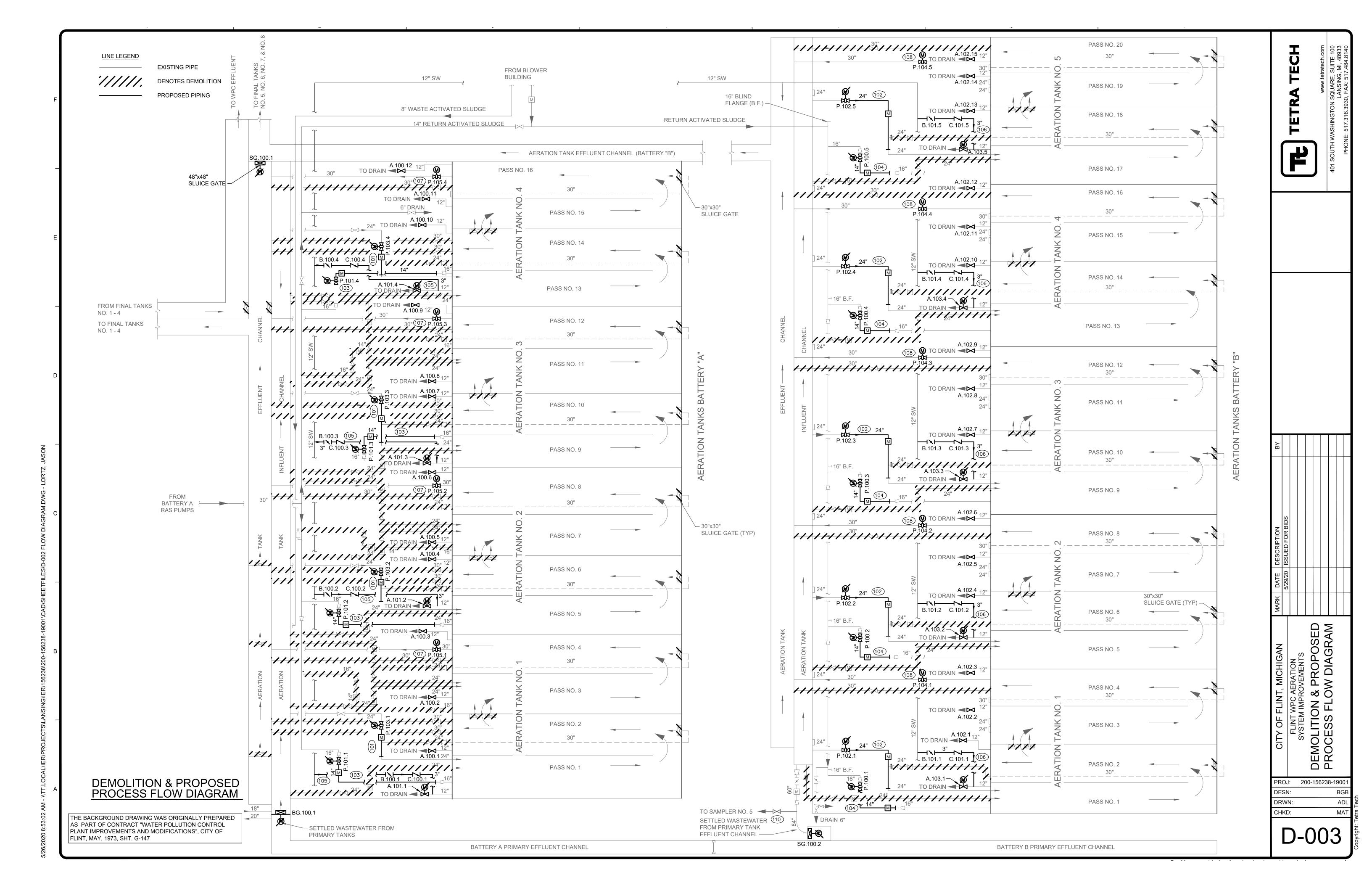
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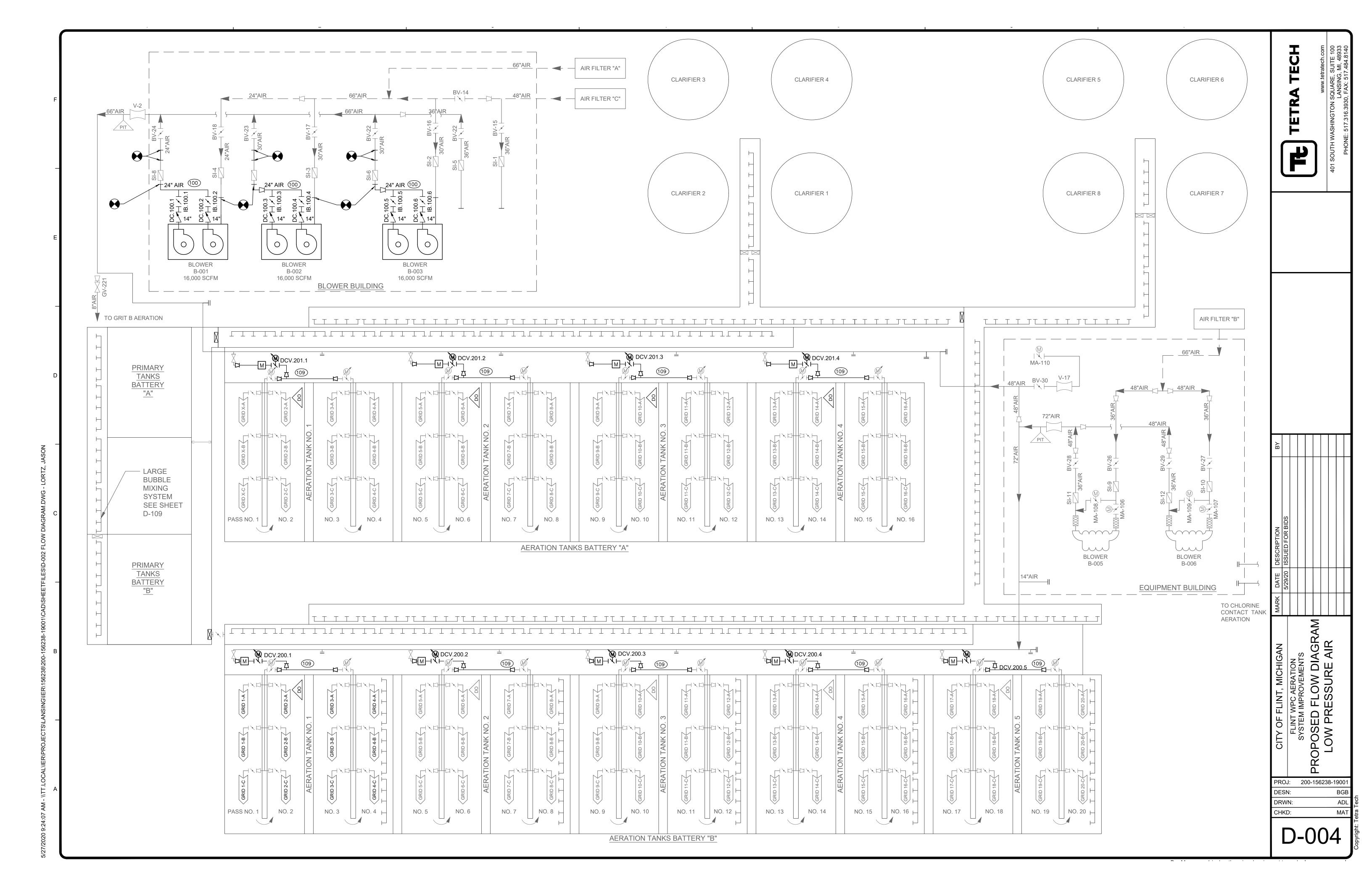
CHKD: MAT

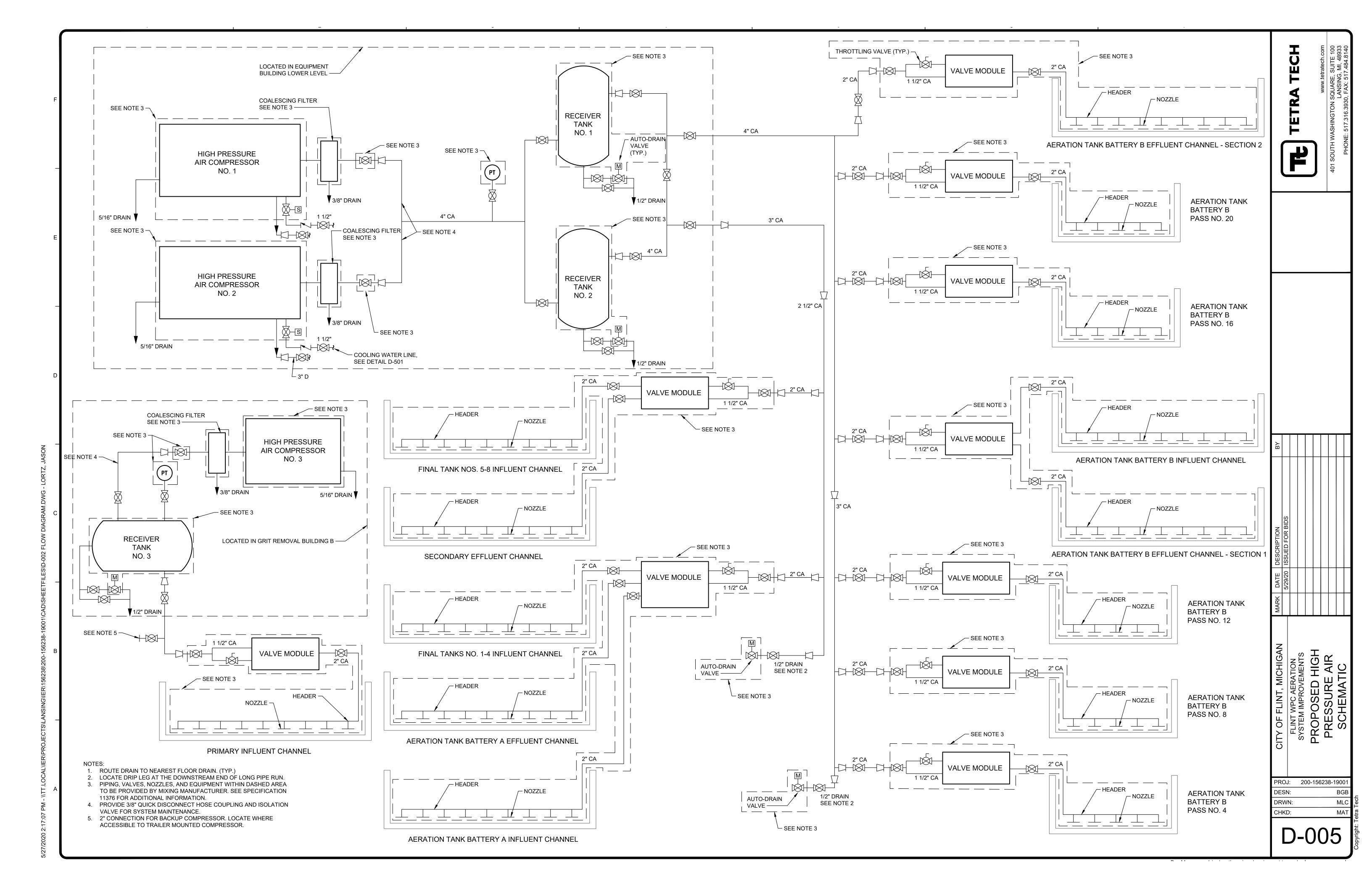
OC! GE

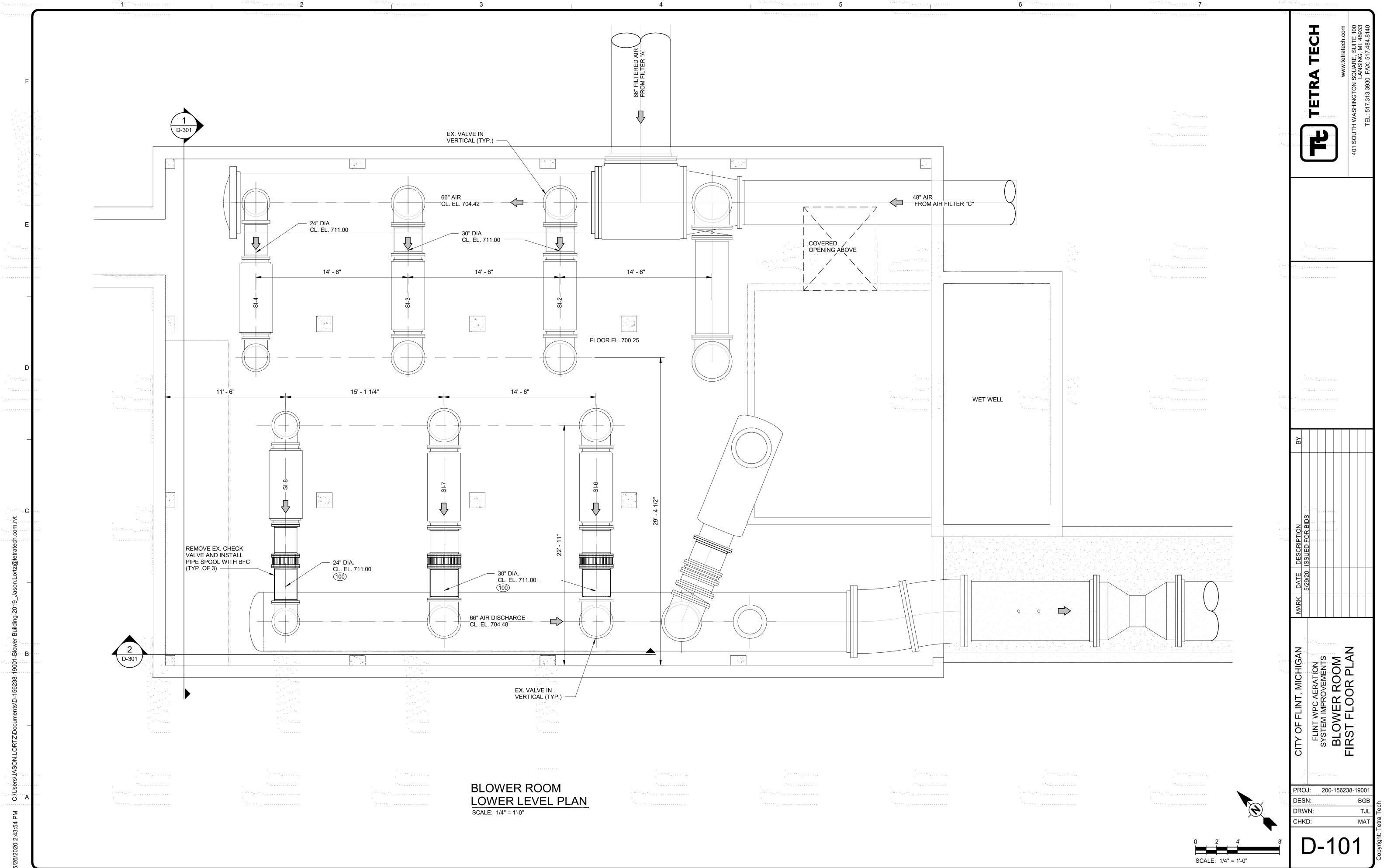
D-001

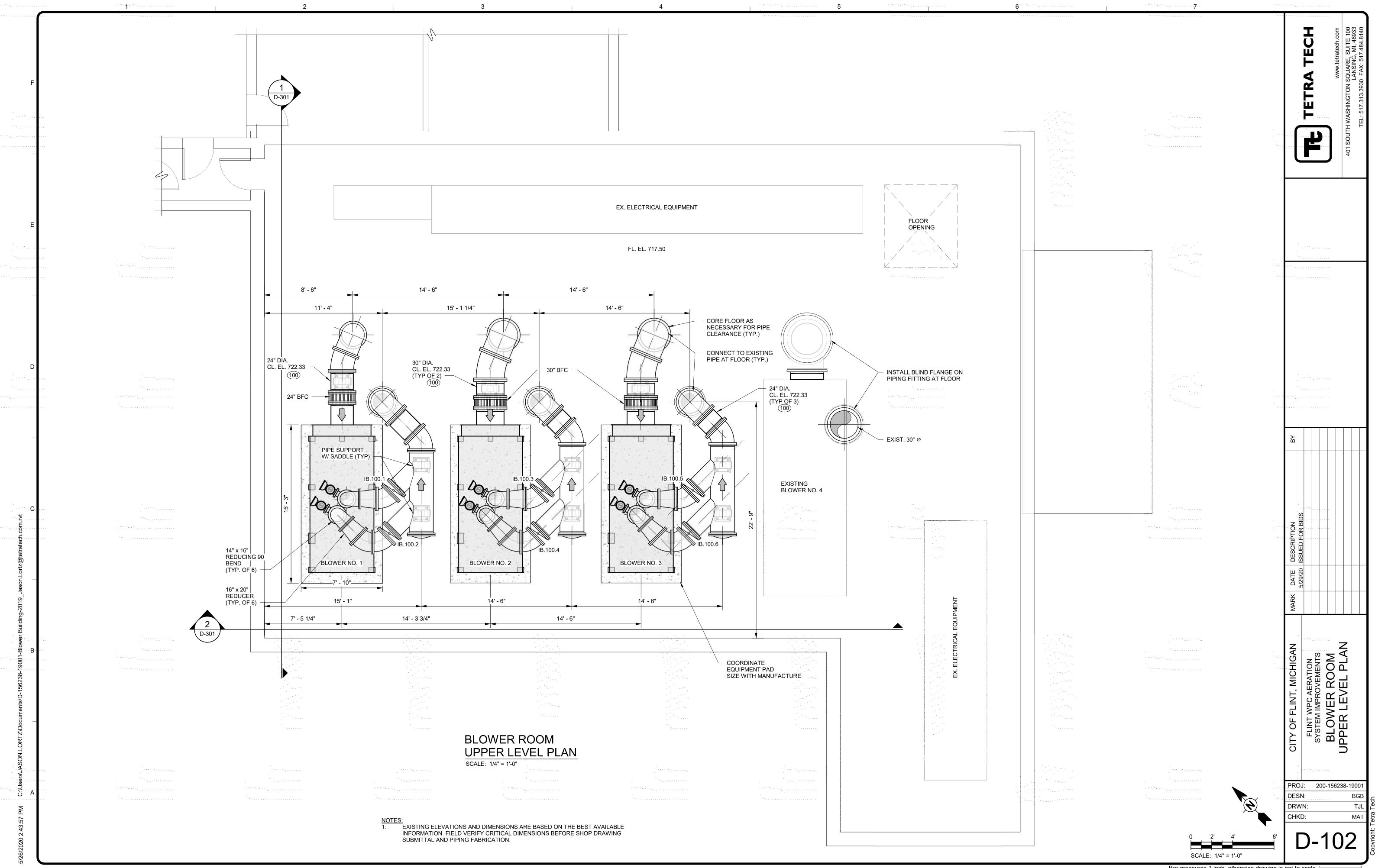


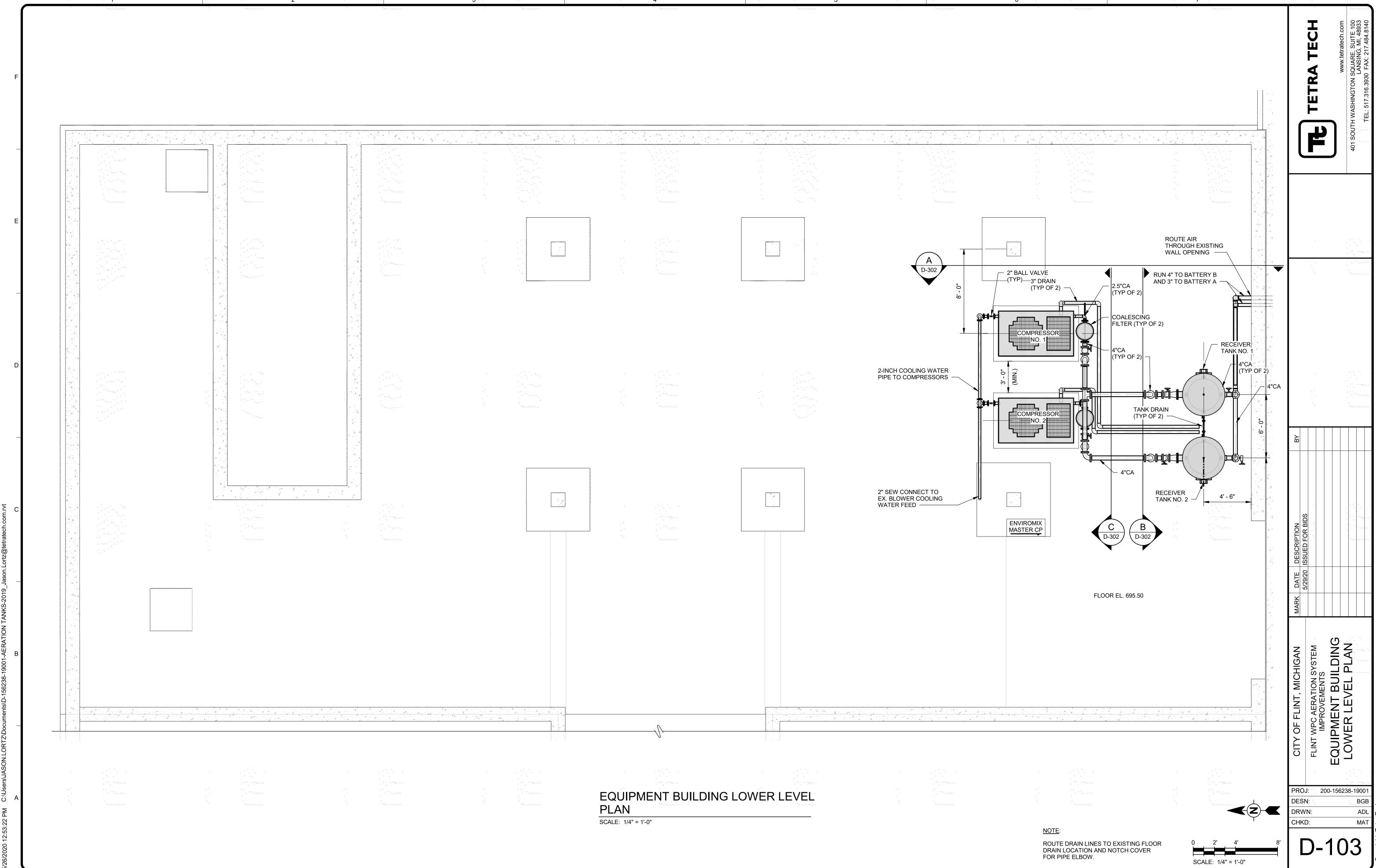


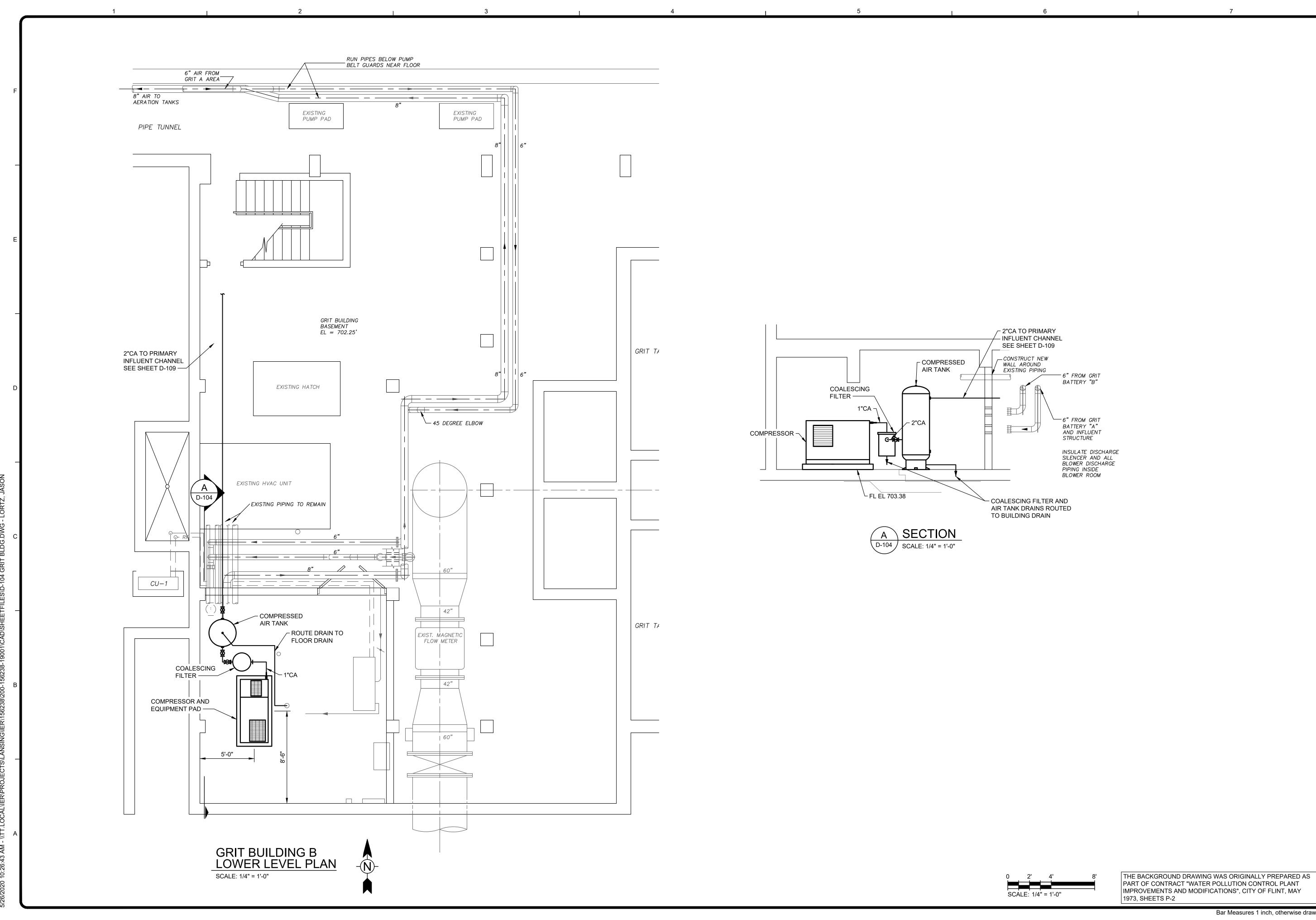




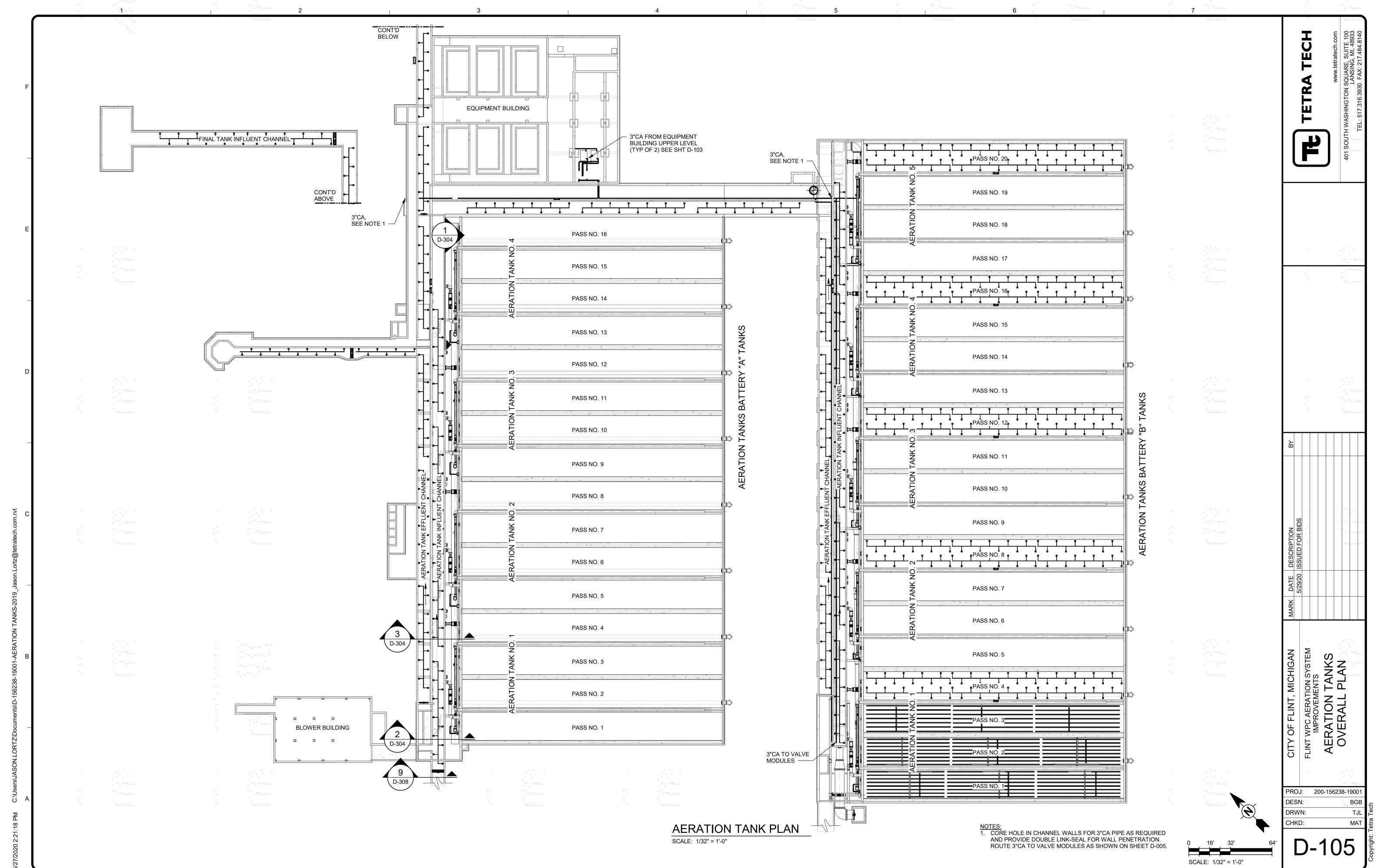


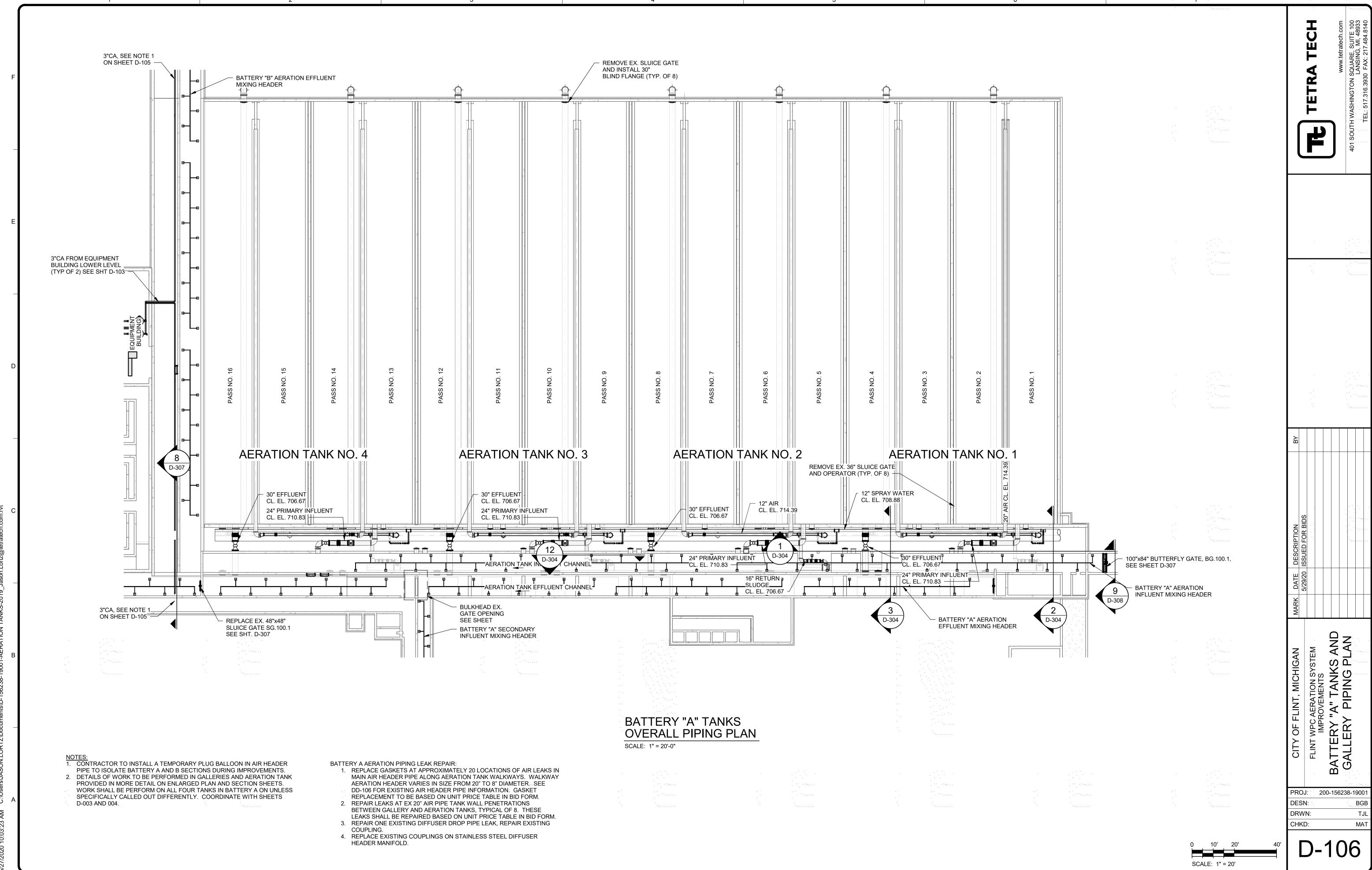


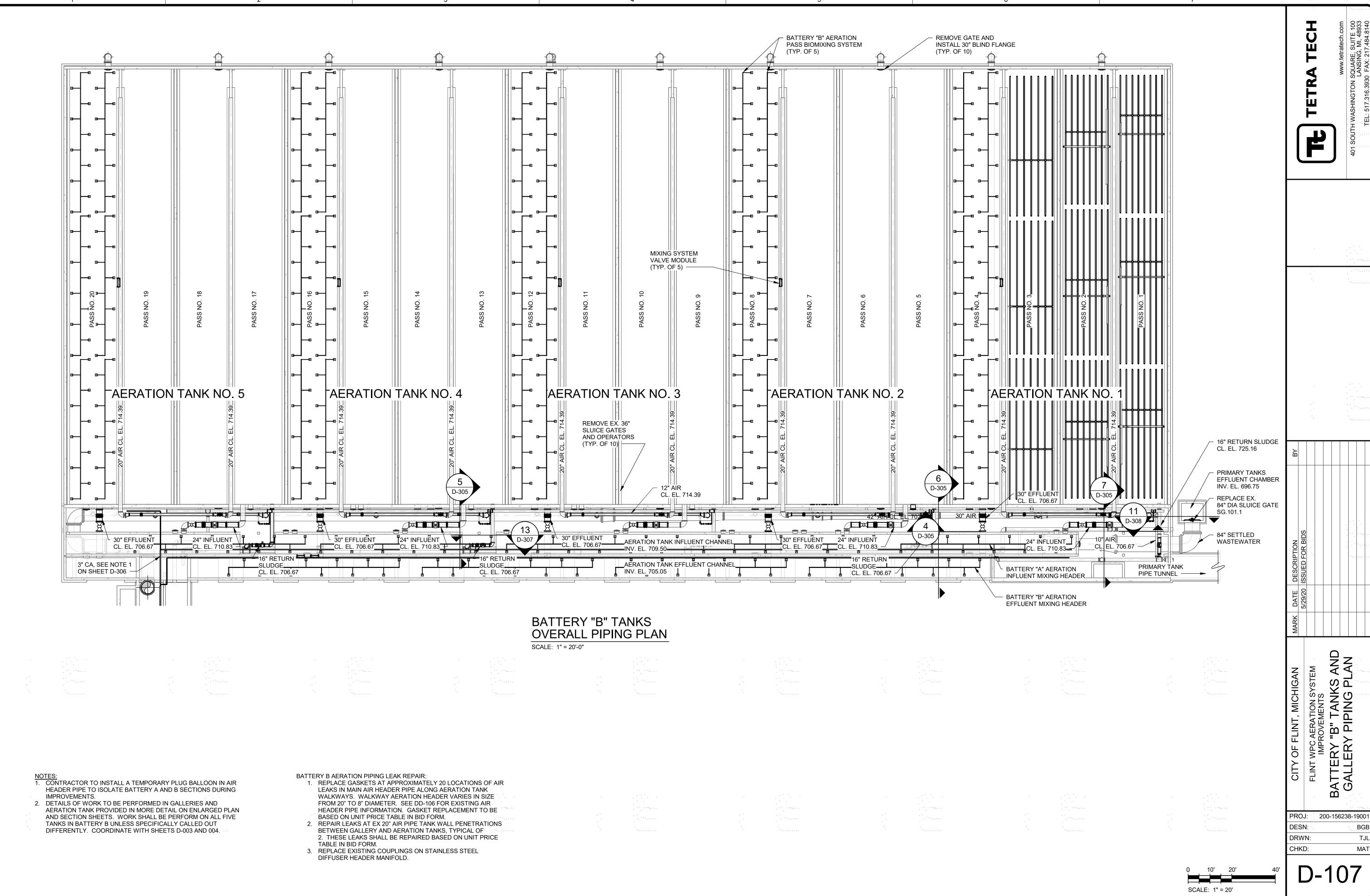


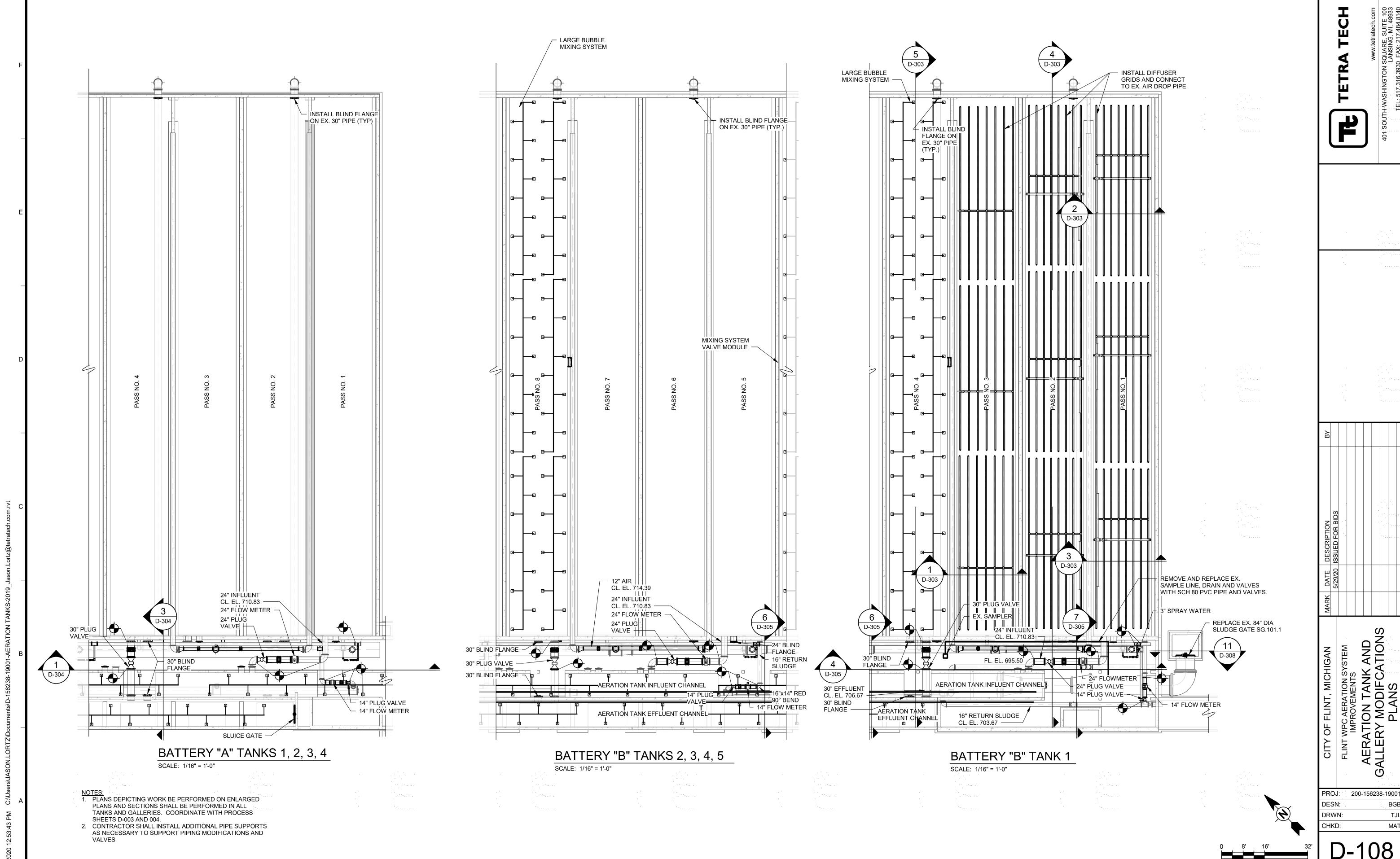


PROJ: 200-156238-19001 DRWN:

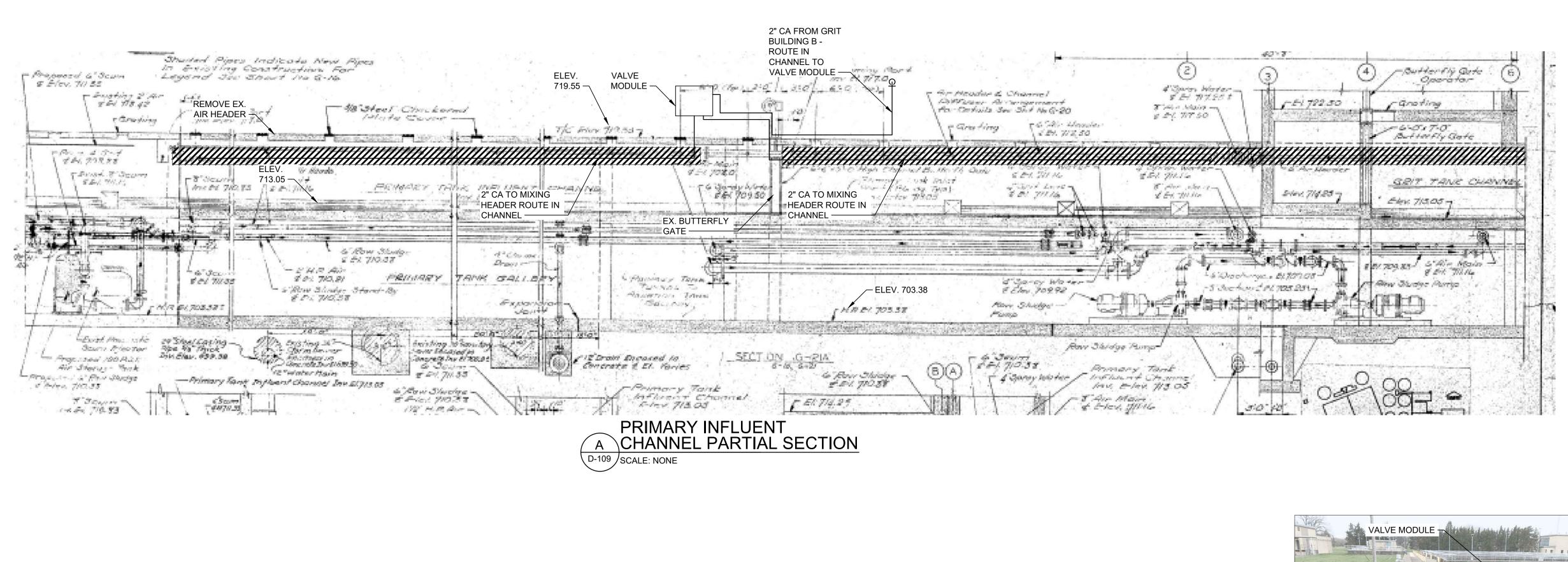


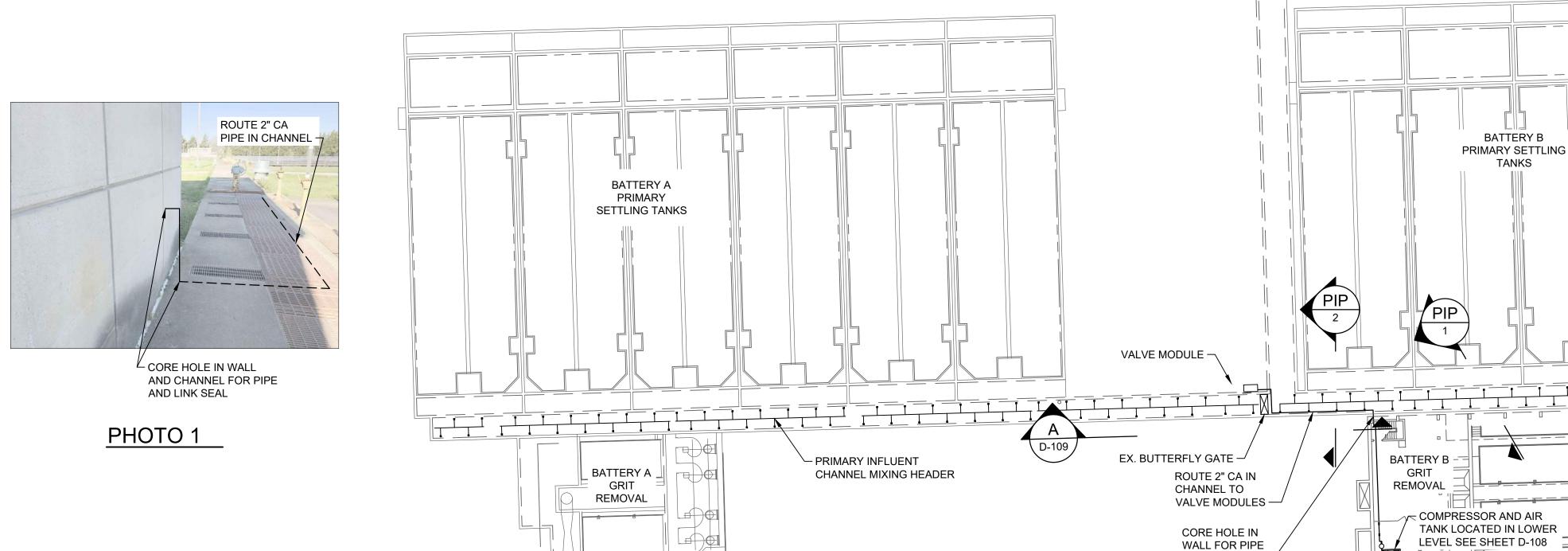






SCALE: 1/16" = 1'-0"





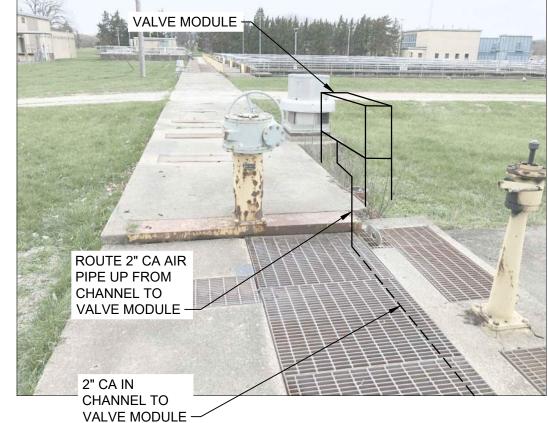
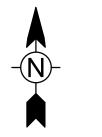


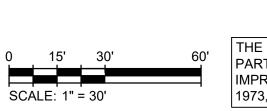
PHOTO 2

PARTIAL SITE PLAN SCALE: 1" = 30'



AND LINK SEAL -

TANKS



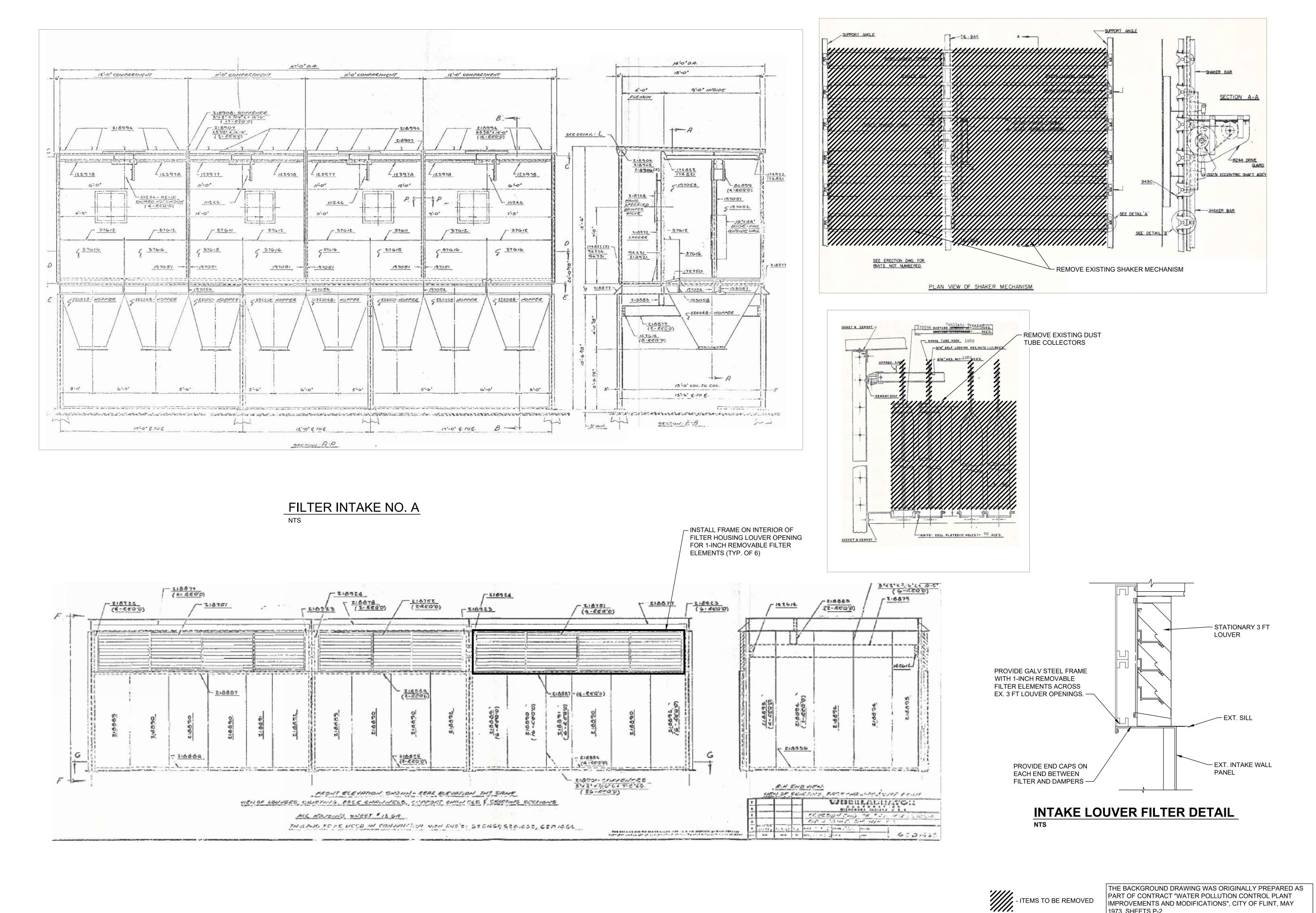
- ITEMS TO BE REMOVED

THE BACKGROUND DRAWING WAS ORIGINALLY PREPARED AS PART OF CONTRACT "WATER POLLUTION CONTROL PLANT IMPROVEMENTS AND MODIFICATIONS", CITY OF FLINT, MAY 1973, SHT. G-21

PROJ: 200-156238-1900²

DRWN:

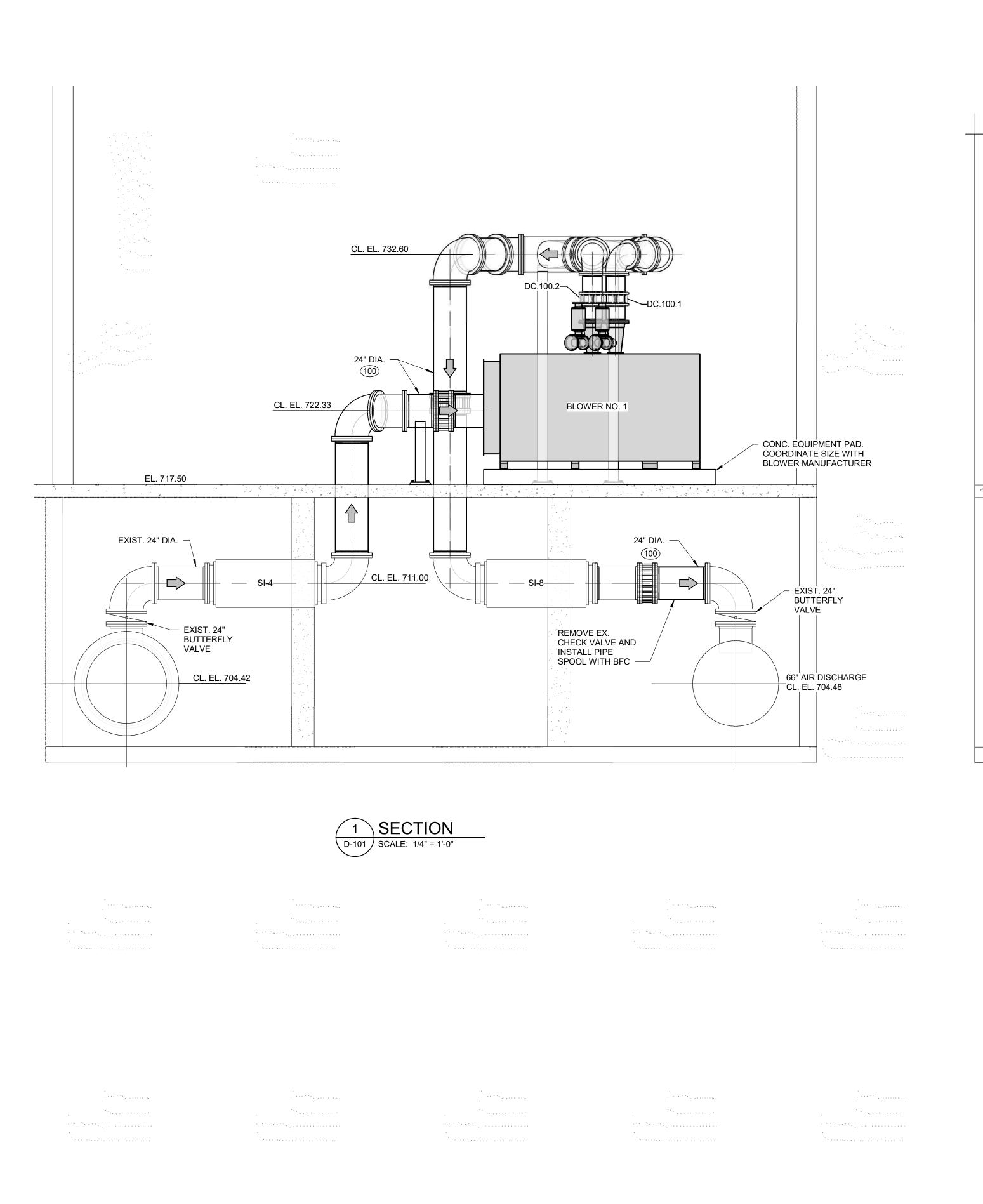
CHKD:

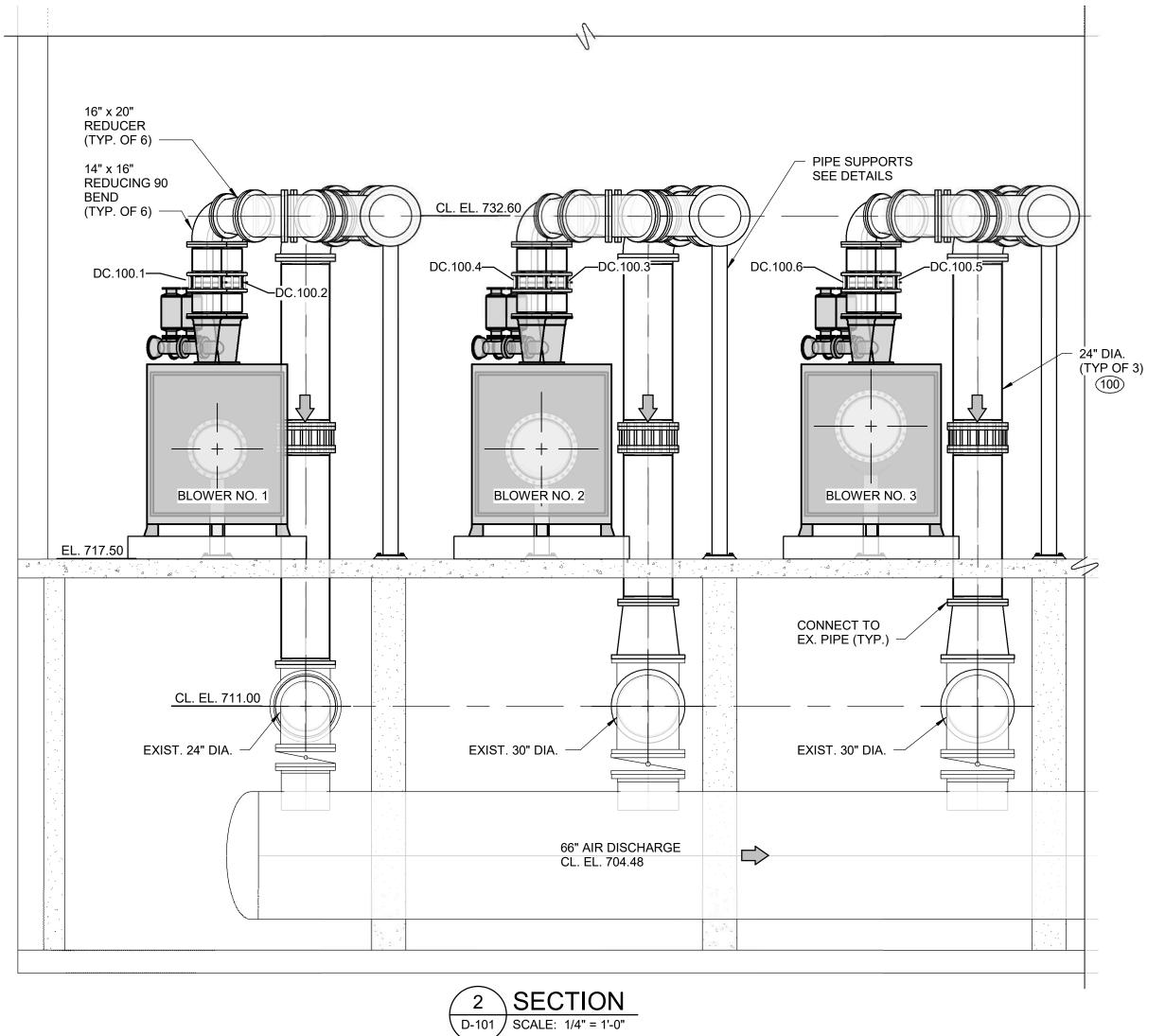


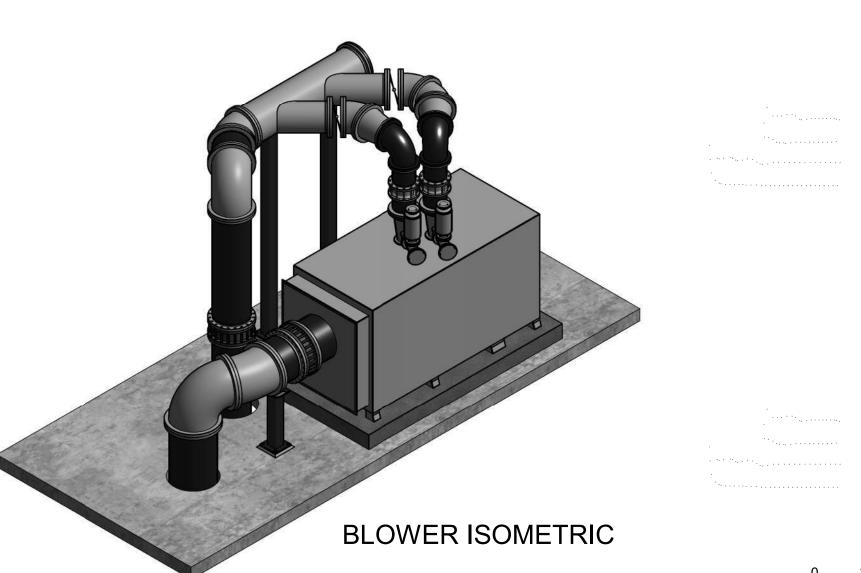
PROJ: 200-156238-1900²

DESN: DRWN: CHKD:

1973, SHEETS P-2







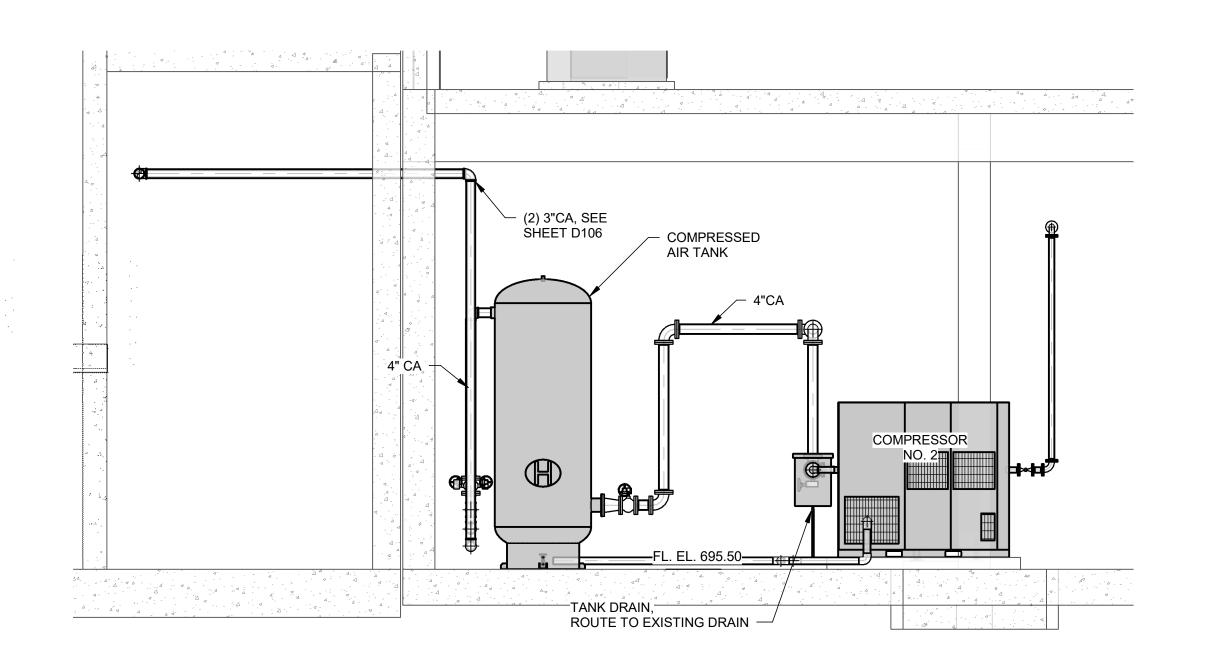
CITY OF FLINT, MICHIGAN

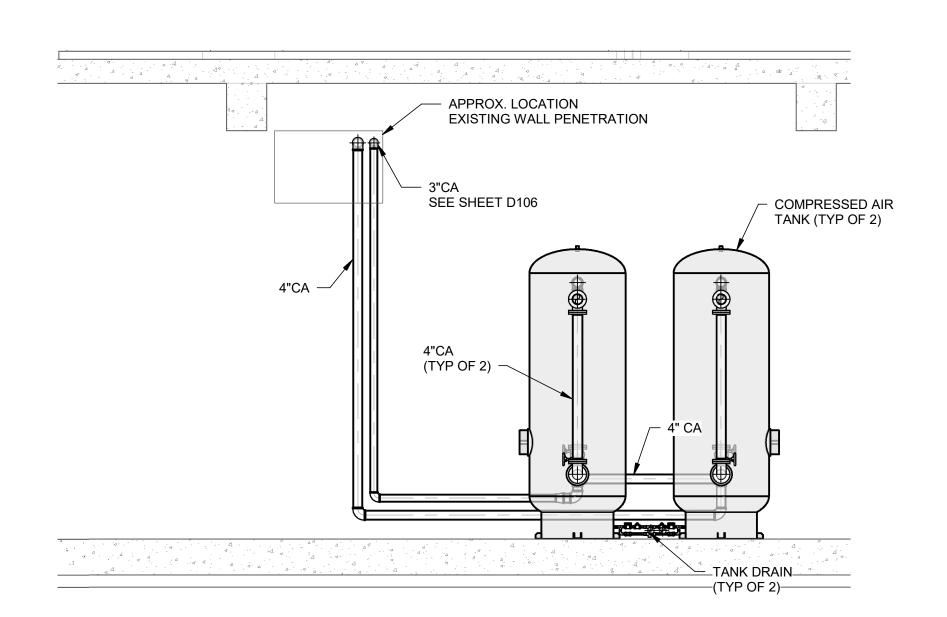
BLOWER ROOM SECTIONS

CHKD: WATK

CHKD: WATK

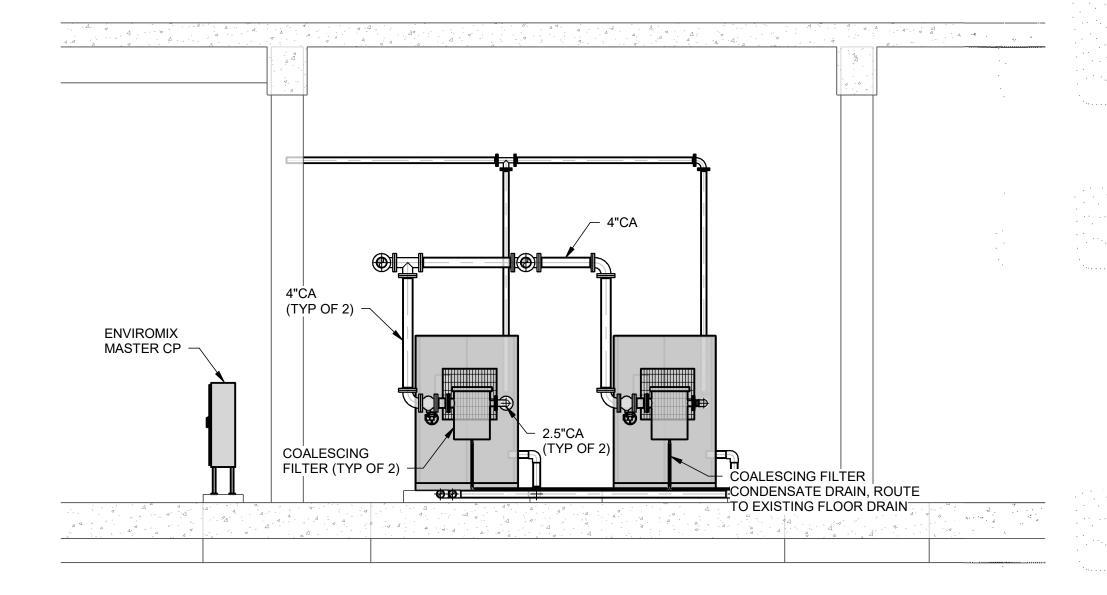
0 2' 4' SCALE: 1/4" = 1'-0"





A SECTION
D-103 SCALE: 1/4" = 1'-0"

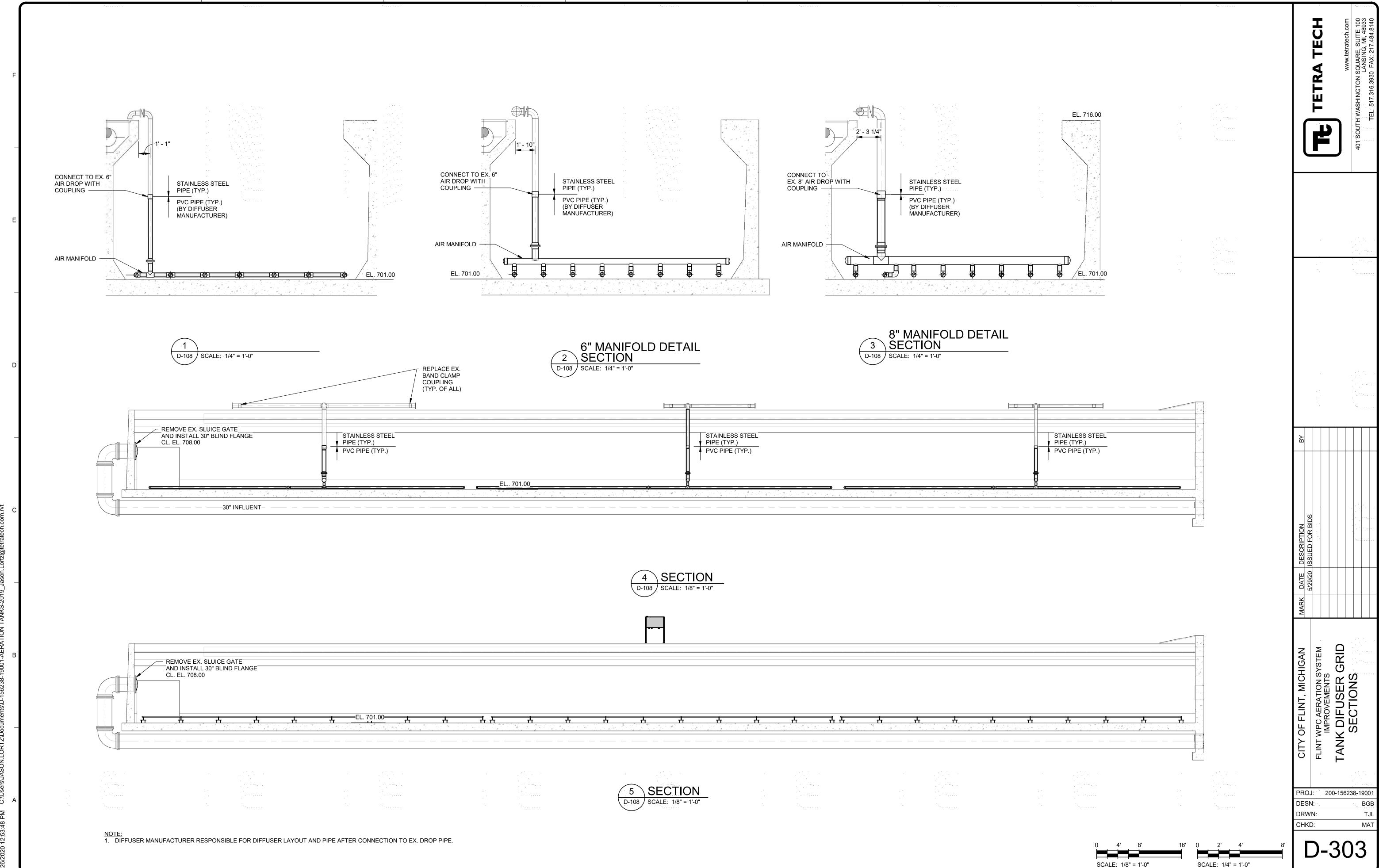




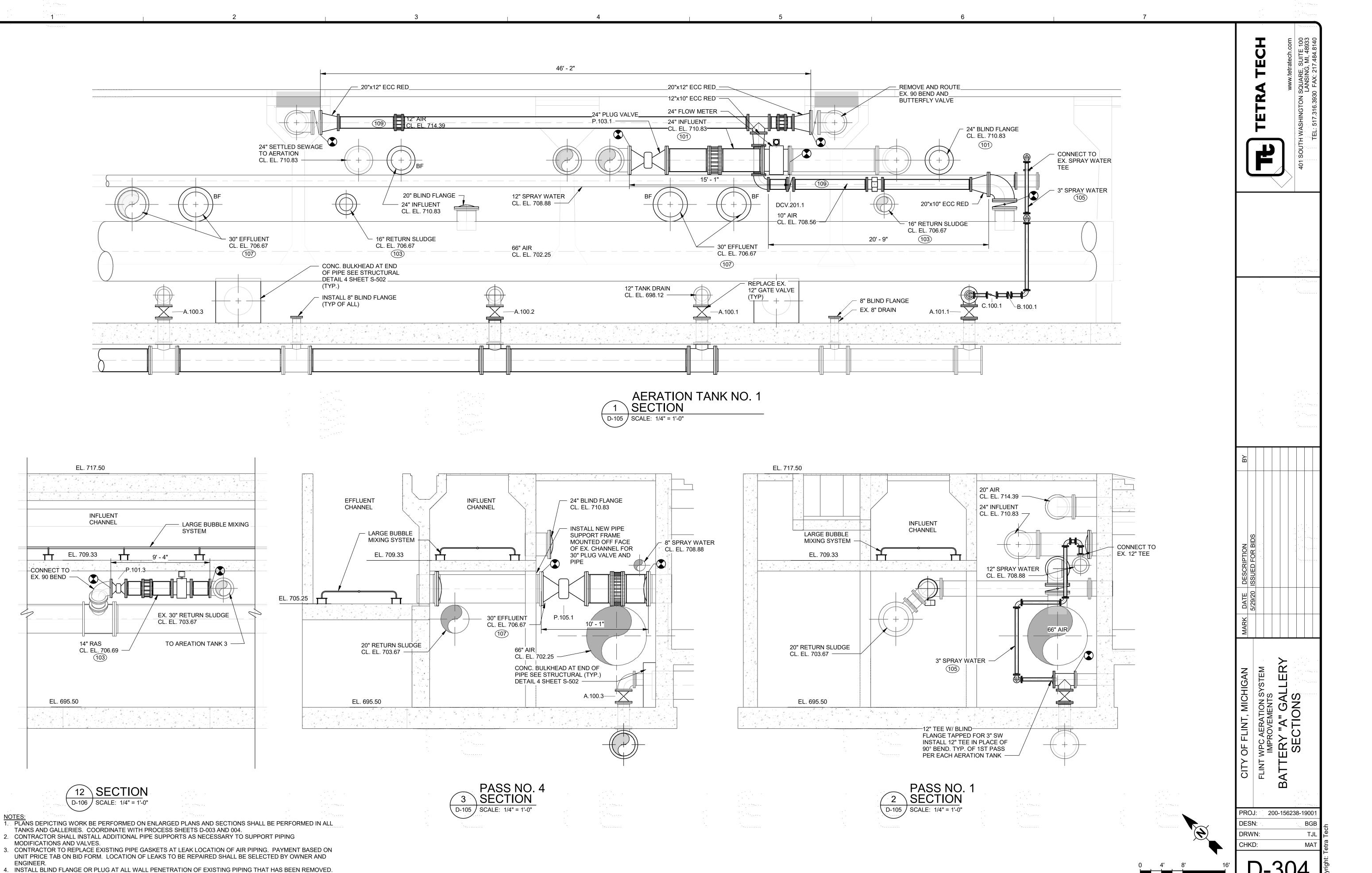
C SECTION
D-103 SCALE: 1/4" = 1'-0"

MARK DATE DESCRIPTION 5/29/20 ISSUED FOR BIDS CITY OF FLINT, MICHIGAN
FLINT WPC AERATION SYSTEM
IMPROVEMENTS
EQUIPMENT BUILDING
SECTIONS PROJ: 200-156238-19001 DRWN: CHKD:

SCALE: 1/4" = 1'-0"



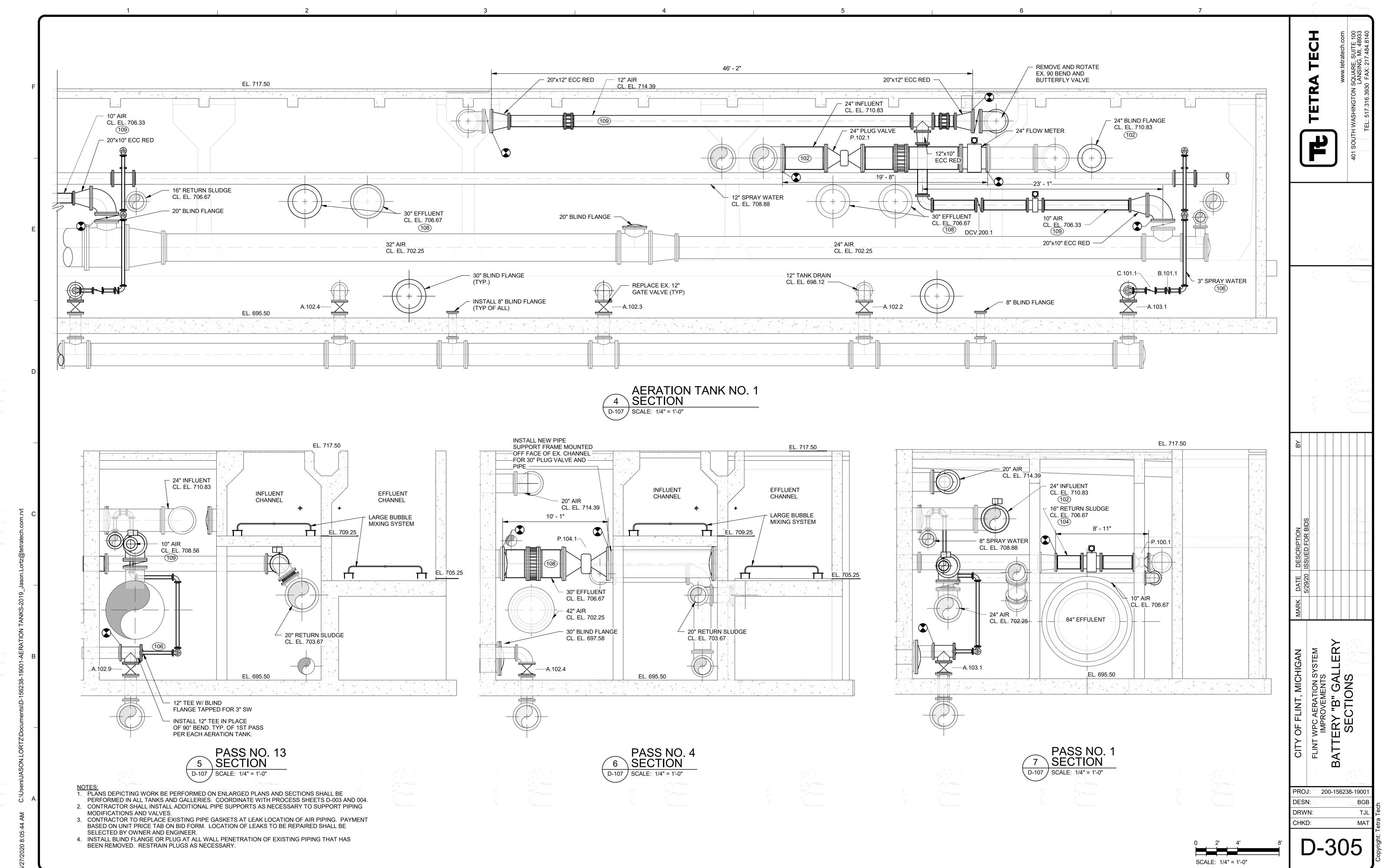
020 12:53:48 PM C:\Users\JASON.LORTZ\Documer



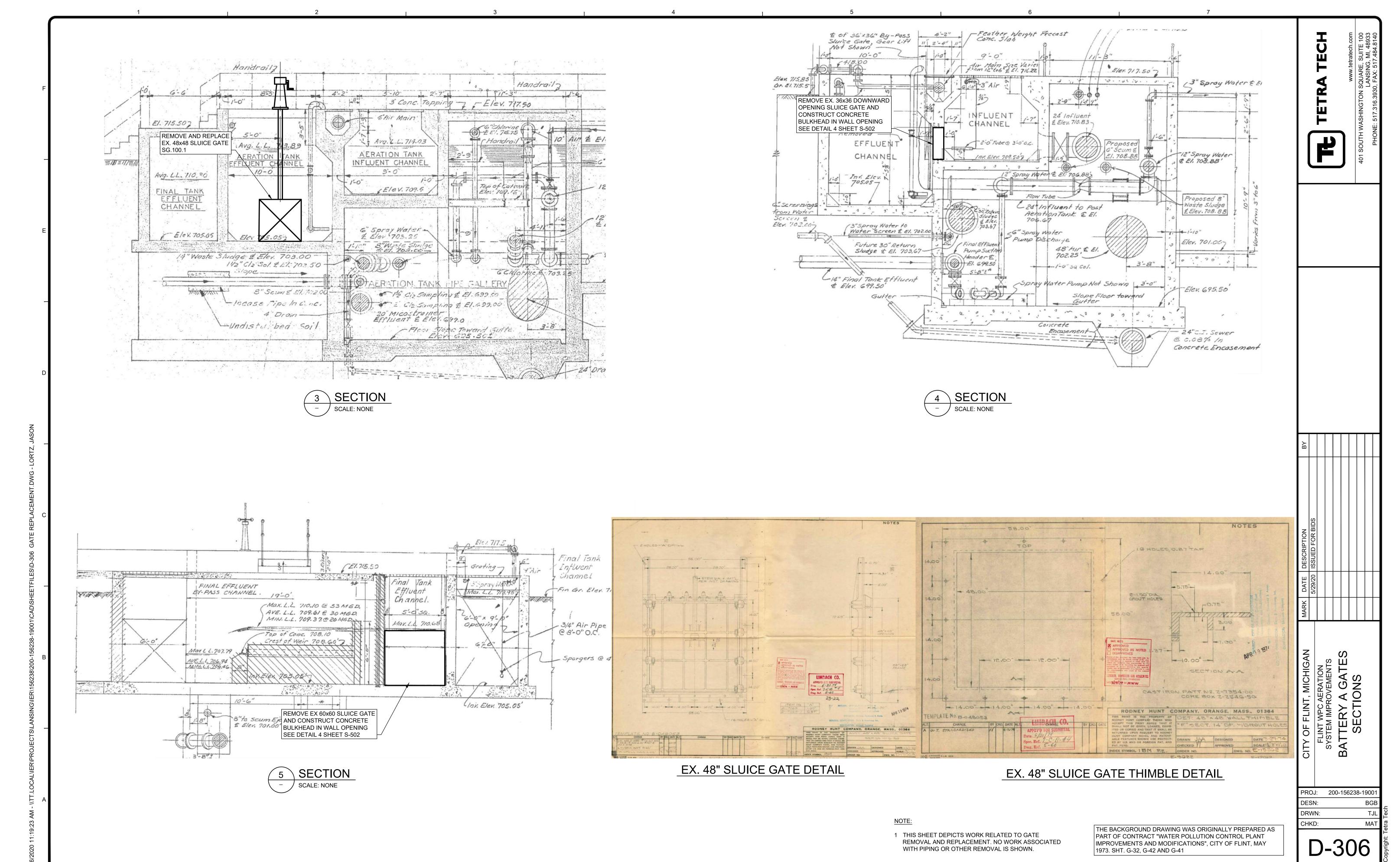
RESTRAIN PLUGS AS NECESSARY.

Bar measures 1 inch, otherwise drawing is not to scale

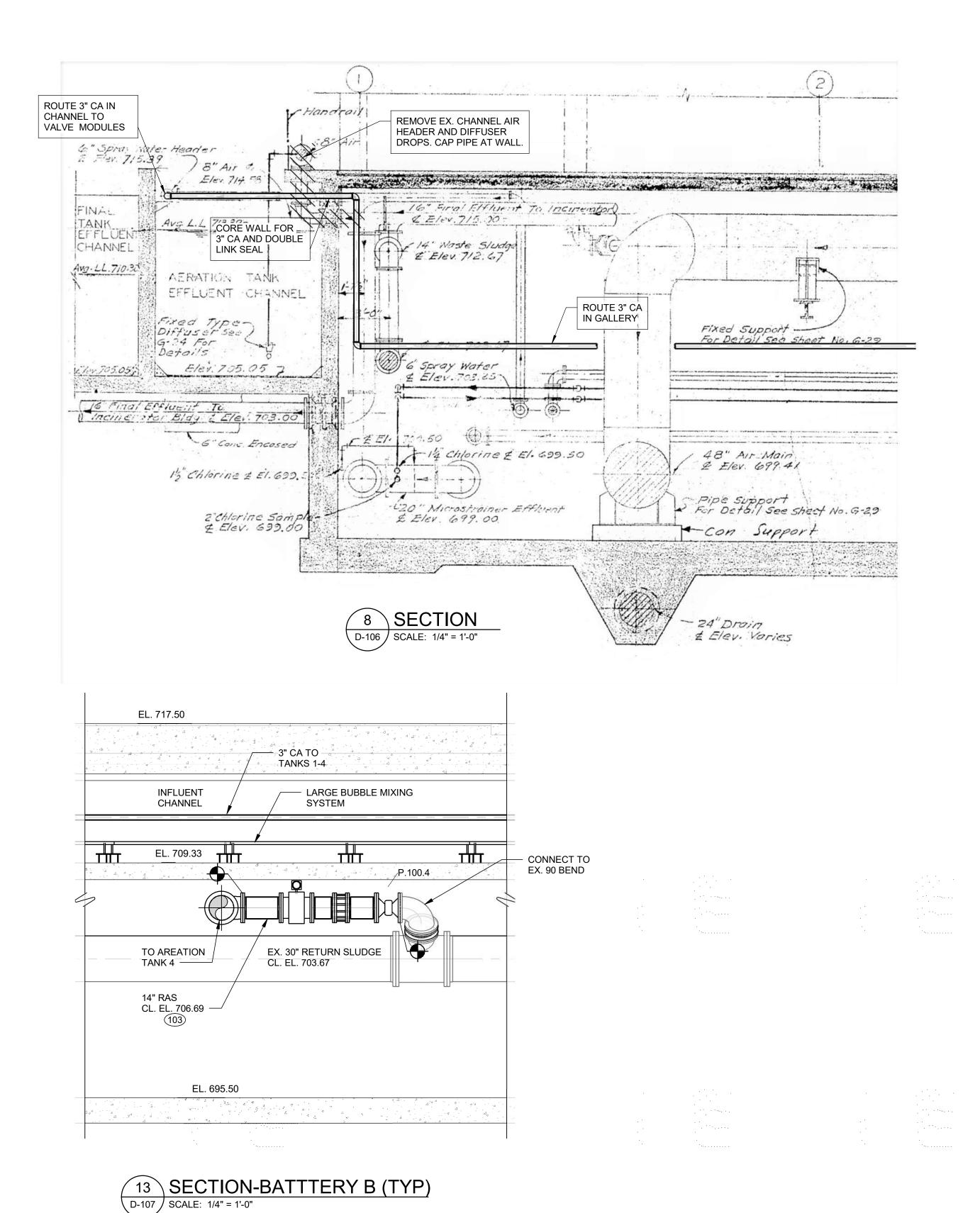
SCALE: 1/8" = 1'-0"

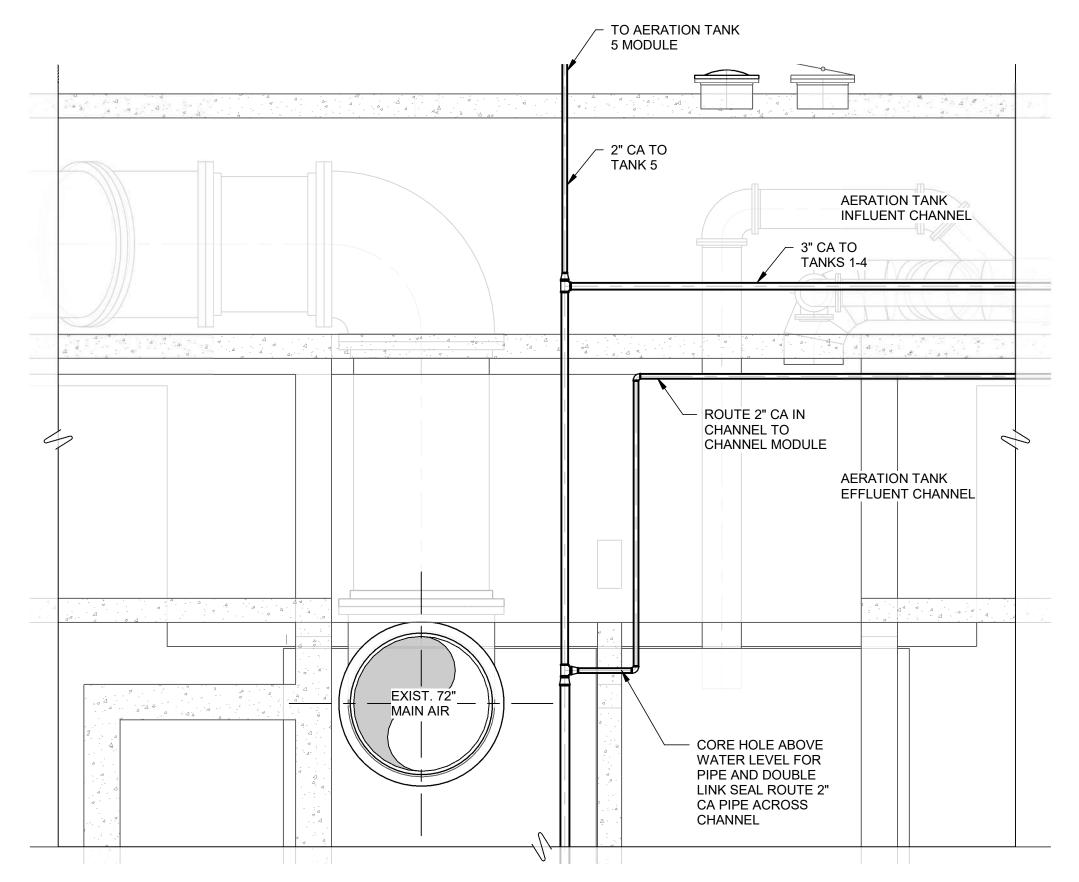


Bar measures 1 inch, otherwise drawing is not to scale



Bar Measures 1 inch, otherwise drawing not to scale I





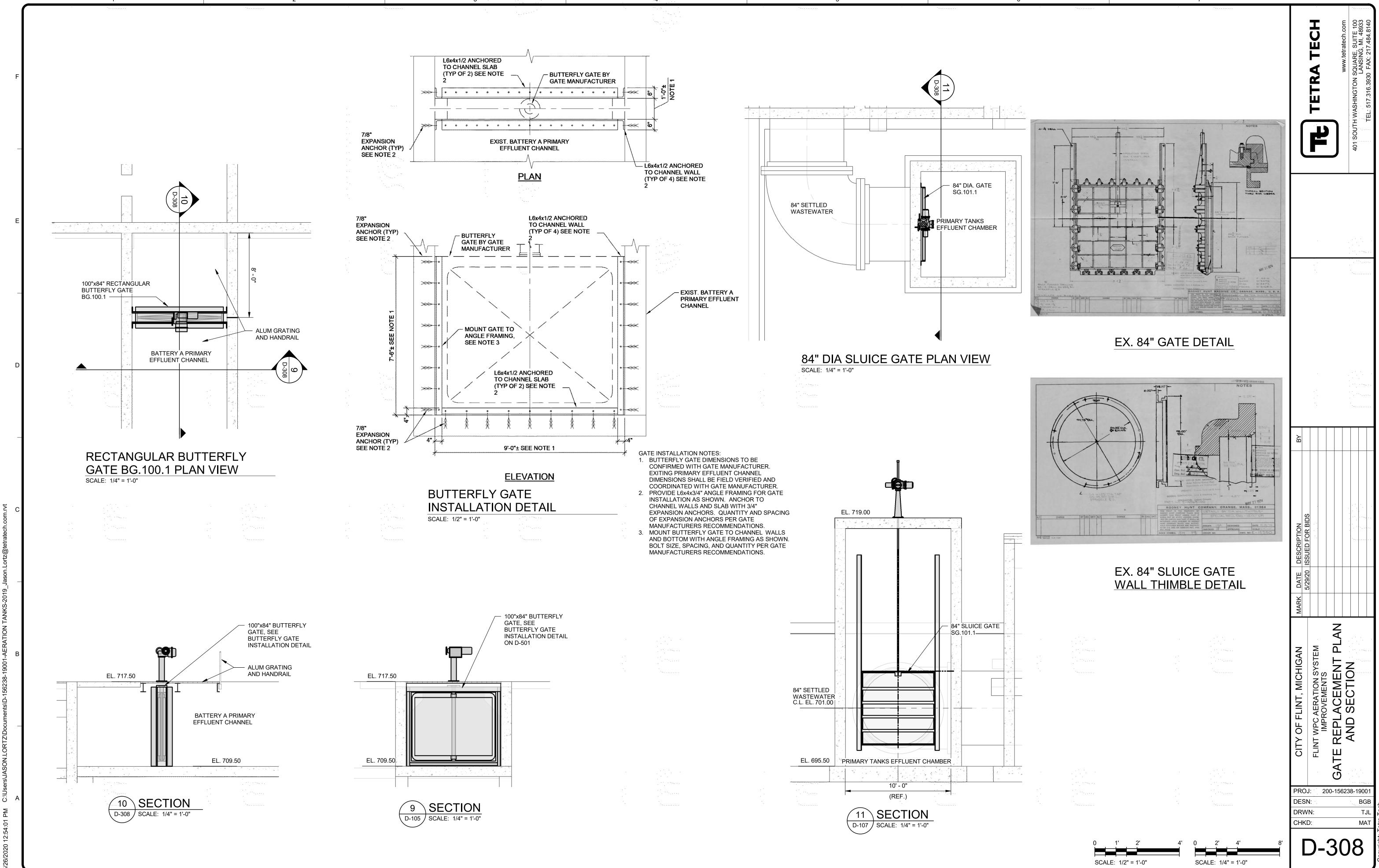
BATTERY B COMPRESSED AIR ENLARGED PARTIAL PLAN

SCALE: 1/4" = 1'-0"

CITY OF FLINT, MICHIGAN
FLINT WPC AERATION SYSTEM
IMPROVEMENTS
COMPRESSED AIR
SECTIONS PROJ: 200-156238-19001

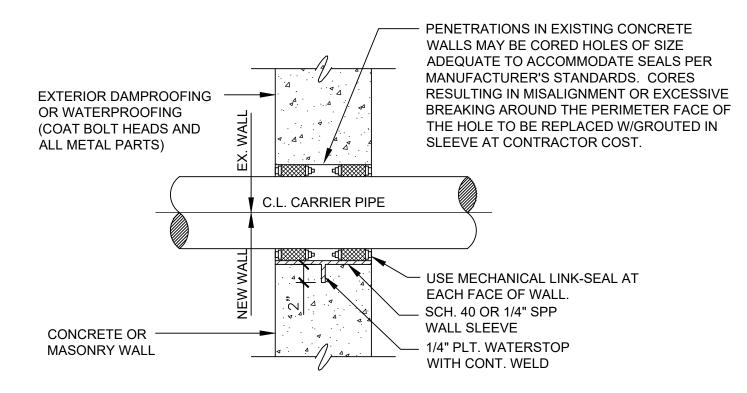
TECH

Bar measures 1 inch, otherwise drawing is not to scale

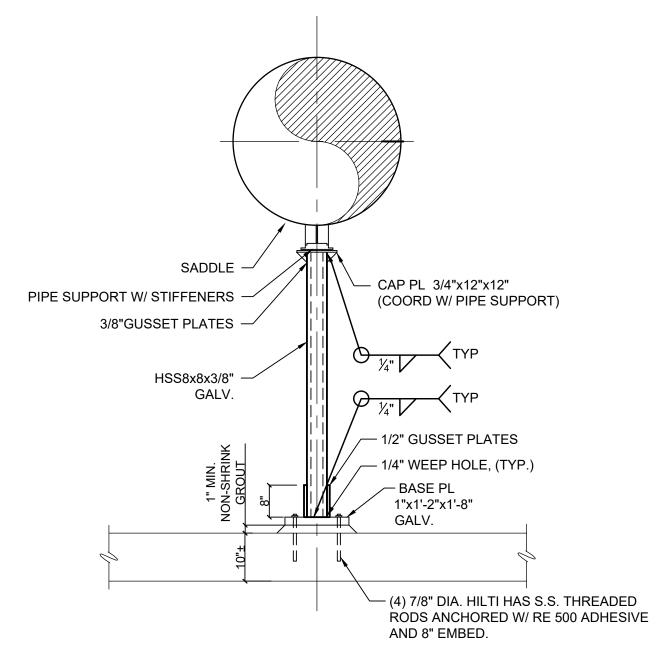


Bar measures 1 inch, otherwise drawing is not to scale

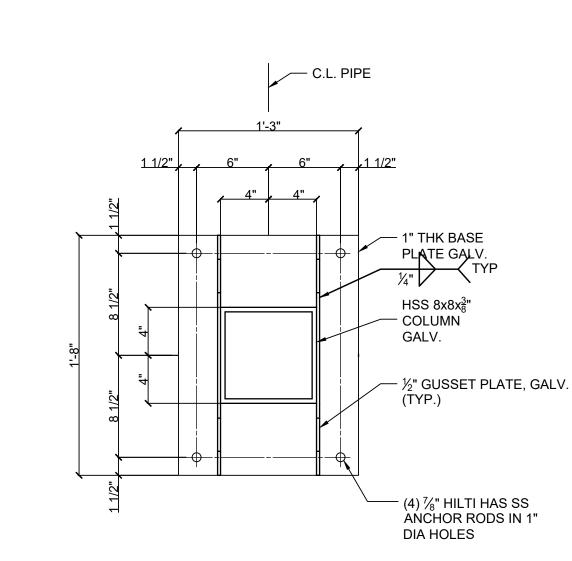
TYPICAL PIPE SLEEVE IN NON-EARTH OR NON-LIQUID RETAINING WALLS SCALE: NONE (UNLESS NOTED OTHERWISE ON THE DRAWINGS)



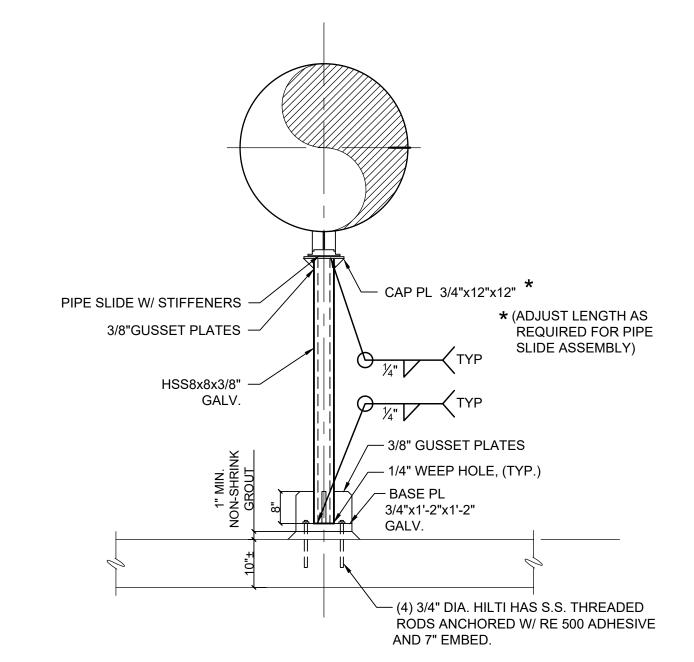
TYPICAL PIPE SLEEVE IN EARTH, RETAINING, OR GAS TIGHT WALLS SCALE: NONE (UNLESS NOTED OTHERWISE ON THE DRAWINGS)



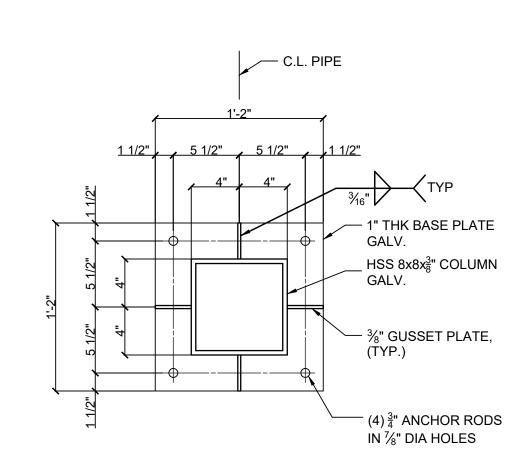
FIXED PIPE SUPPORT (FS-1) SCALE: NONE



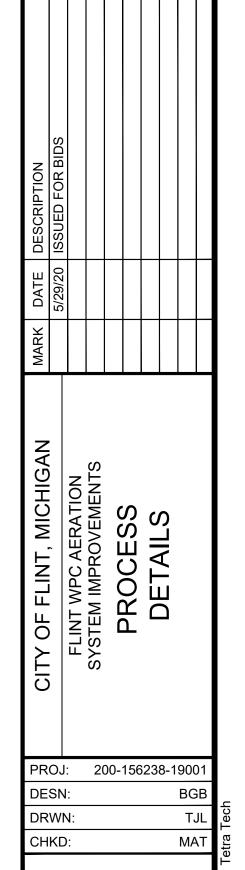
FIXED SUPPORT BASE PLATE DETAIL
SCALE: NONE



SLIDE PIPE SUPPORT (SS-1)
SCALE: NONE

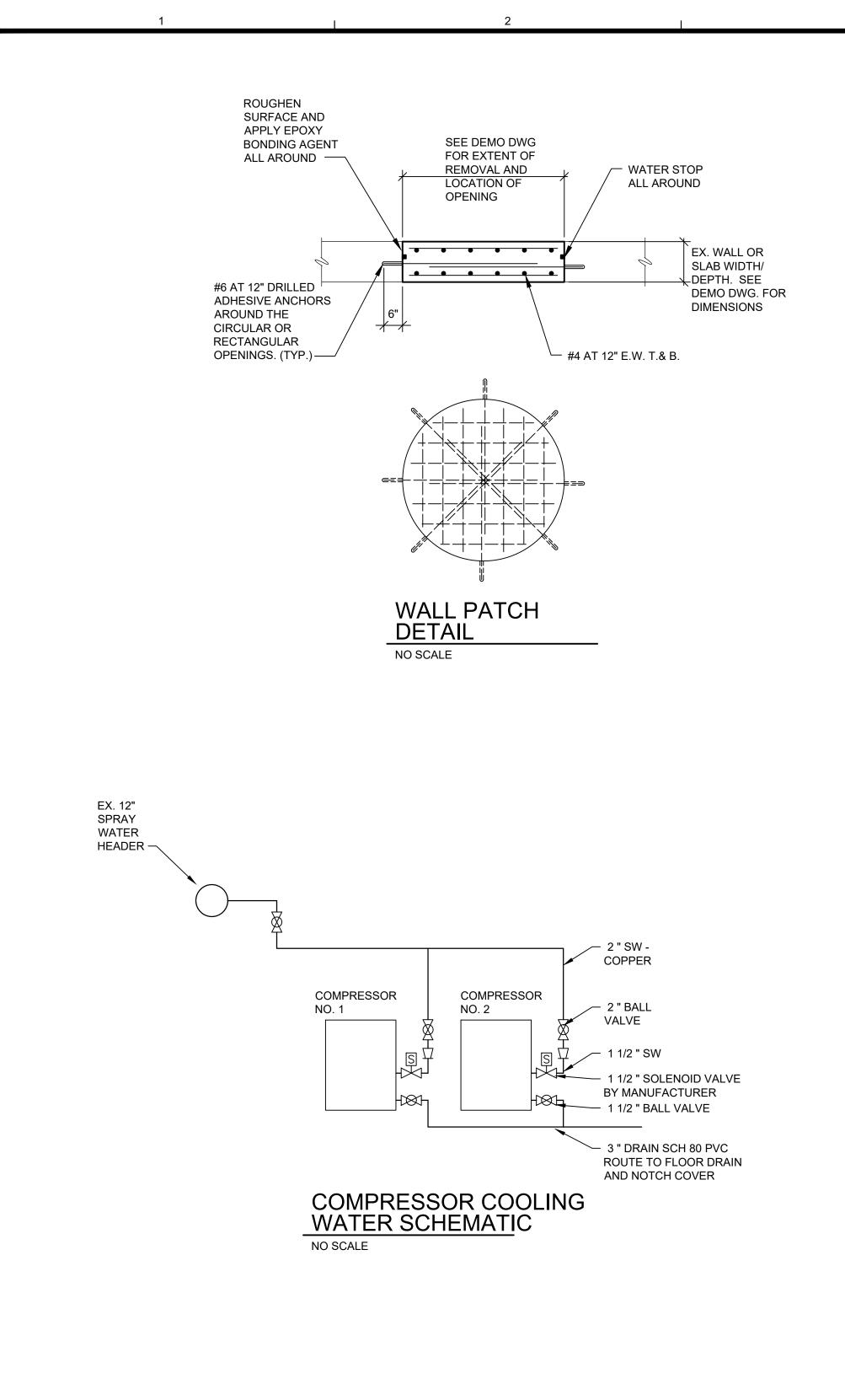


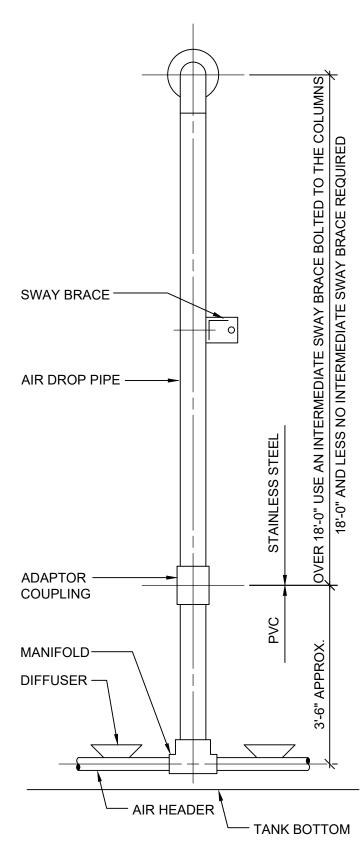
TYPICAL BASE PLATE DETAIL
SCALE: NONE



D-500

TECH

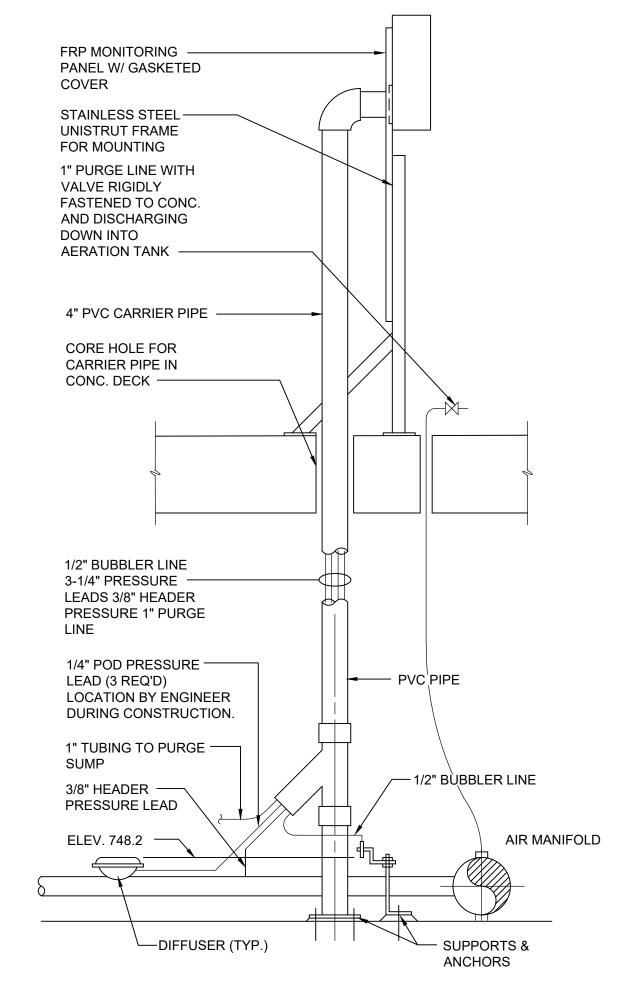




NOTE: FULL WEIGHT OF DROPLEG TO BE SUPPORTED BY FLANGE CONNECTION TO AIR PIPING OR INTERMEDIATE SUPPORTS.

NO SCALE

TYPICAL AIR DROP PIPING DETAIL



TYPICAL MONITORING STATION DETAIL NO SCALE

NOTE: MONITORING TUBING SHALL BE RIGIDLY TIED TO AERATION PIPING AT A MAXIMUM SPACING OF 2 FEET USING PLASTIC TIES.

PROJ: 200-156238-1900°

TECH

D-501

Bar Measures 1 inch, otherwise drawing not to scale I

GATE SCHEDULE										
	SIZE					HEAD	(FEET)			
SERVICE	INCHES	QUANTITY	TYPE	воттом	THIMBLE	SEAT	UNSEAT	OPER.	ACCESSORIES	REMARKS
ML	48"Wx48"H	1			EX	10	10	М	FS, SC	TH, EX WALL THIMBLE
PE	84"DIA	1			EX	10	10	М	FS, SC, SG	TH, EX WALL THIMBLE
	SIZE					HEAD	(FEET)			
SERVICE	INCHES	QUANTITY	TYPE	воттом	MATERIAL	SEAT	UNSEAT	OPER.	ACCESSORIES	REMARKS
PE	100"Wx84"H	1		SB		7	7	М	FS	TH, GATE TO BE MOUNTED IN FRAME
					V4					ALONG CHANNEL FACE

ADAPTER FLANGE COUPLING

BOLTED FLEXIBLE COUPLING

PIP	PEW	ORK	SCI	HED	ULE	KE

GENERAL

REMARKS

CLASS

THE FOLLOWING PIPE SCHEDULE GIVES THE DESIGNATION FOR EACH PIPE LINE, PIPE SIZE, JOINT, MATERIAL, SERVICE AND OTHER PERTINENT DATA. THE KEY OF SYMBOLS FOR THE SCHEDULE IS AS FOLLOWS:

PIPE JOINTS

		PIPE
PROCES	S PIPING	
DI	DUCTILE IRON PIPE	AFC
GSP	GALVANIZED STEEL PIPE	BFC
HDPE	HIGH DENSITY POLYETHYLENE	FJ
SSP	STEEL PLATE PIPE	FSJ
PRP	POLYPROPYLENE RESIN PLASTIC PIPE	GJ
PVC	PLASTIC PIPE	MJ
DVCD	POLYVINYL CHLORIDE GRAVITY	PPAC

FSJ GJ MJ SJ

POLYVINYL CHLORIDE GRAVITY STAINLESS STEEL PIPE

RPOC SWJ

FJ **FLANGED JOINT FUSED JOINT GROOVE JOINT** MECHANICAL JOINT (RESTRAINED)

RESTRAINED PUSH ON JOINT **SCREW JOINT** SOLVENT WELD JOINT

VALVE & GATE SCHEDULE KEY:

THE FOLLOWING VALVE AND GATE SCHEDULES GIVES THE DESIGNATION FOR EACH VALVE AND GATE, ITS LOCATION, SERVICE SIZE, QUANTITY AND OTHER PERTINENT DATA.

THE DISTANCE GIVEN WITH EXTENSION STEMS OR SHAFTS IS THAT FROM CENTER LINE OF PORT TO TOP OF FLOOR AT FLOOR STAND OR FLOOR BOX, OR FROM CENTER LINE OF PORT TO GROUND SURFACE FOR VALVE BOX.

THE DISTANCE GIVEN FOR BUTTERFLY VALVES WITH EXTENSION BONNETS IS THAT FROM CENTER LINE OF VALVE TO CENTER LINE OF THE OPERATOR, 3 FEET ABOVE OPERATING FLOOR OR SLAB.

IN GENERAL, NO VALVES OR GATES SMALLER THAN 4 INCHES ARE INCLUDED IN THE SCHEDULE.

UNLESS OTHERWISE NOTED ON THE SCHEDULE, THE VALVE CLASS SHALL BE 150, EXCEPT BUTTERFLY VALVES FOR AIR SERVICE SHALL BE CLASS 25, STEMS SHALL BE OF THE NONRISING TYPE FOR VALVES, AND OF THE RISING TYPE FOR FOR GATES,

ENCLOSURE REQUIREMENTS, ETC.

THE KEY OF SYMBOLS FOR SCHEDULE IS AS FOLLOWS:

FABRICATED SLIDE GATE **FABRICATED SLIDGE GATE OPERATOR** FABRICATED SLIDE GATE MATERIAL STAINLESS STEEL FRAME **BEVEL GEAR HANDWHEEL** CONVENTIONAL

STANDARD BOTTOM

VALVE SCHEDULE LOCATION ACCESSORIES MARK SERVICE QUANT. JOINT OPERATOR REMARKS SIZE (INCHES) INDUSTRIAL BUTTERFLY VALVE (IB) IB.100.1 THRU 6 BLOWER ROOM BY BLOWER MANF. BUTTERFLY VALVE (B) RCS B.100.1 THRU 4 **AERATION TANK** BATTERY "A" B.101.1 THRU 5 RCS **AERATION TANK** SW BATTERY "B" DIAPHARGM CONTROL VALVE (DCV) DCV.200.1 THRU 9 RCS AERATION TANK LPA BATTERY "B" BY BLOWER MANF DCV.201.1 THRU 4 AERATION TANK BATTERY "A" BY BLOWER MANF CHECK VALVE (C) C.100.1 THRU 4 **AERATION TANK** SW BATTERY "A" C.101.1 THRU 5 AERATION TANK BATTERY "B" DUAL VANE CHECK VALVE DC.100.1 THRU 6 BY BLOWER MANF BLOWER ROOM **GATE VALVE (A)** A.100.1 THRU 12 AERATION TANK HW BATTERY "A" A.101.1 THRU 4 AERATION TANK BATTERY "A" A.102.1 THRU 15 **AERATION TANK** BATTERY "B" RCS A.103.1 THRU 5 AERATION TANK BATTERY "B" PLUG VALVE (P) RCS P.100.1 THRU P.100.5 AERATION TANK RAS BATTERY "B" RCS P.101.1 THRU P.101.4 AERATION TANK BATTERY "A" P.102.1 THRU P.102.5 AERATION TANK PΕ RCS BATTERY "B" RCS P.103.1 THRU P.103.4 AERATION TANK BATTERY "A" RCS P.104.1 THRU P.104.5 AERATION TANK FAIL IN CURRENT POSITION 30 BATTERY "B" FAIL IN CURRENT POSITION P.105.1 THRU P.105.4 AERATION TANK BATTERY "A"

	FABRICATED SLIDE GATE

ES

FS

WB

SC

SG

DRAWINGS.

INCLUDED IN THE REMARKS COLUMN WILL BE EXCEPTION TO CLASS, STEM, SERVICE, MOTOR AND MOTOR

ACCESSORIES VALVE ACCESSORIES

VALVE OPERATOR

EXTENSION STEM (FEET) RCS REMOTE CONTROL CW CHAIN WHEEL (LENGTH) **FLOOR STAND** STATION **HANDWHEEL WALL BRACKET MOTOR** LIMIT SWITCH STEM COVER STEM GUIDE **PNEUMATIC** SG STEM GUIDE **VALVE BOX WRENCH NUT** VB EXTENSION STEM LEVER

EXTENSION BONNET

FS FLOOR STAND **VALVE JOINT VALVE REMARKS FLANGED JOINT GROOVED COUPLING** CLASS MECHANICAL JOINT **FAIL CLOSE** SJ **SOLVENT WELD JOINT** FO FAIL OPEN WAFER NORMALLY CLOSED **OPEN SHUT** THROTTLING TYPE **ADDITIONAL NOTES (ALL VALVES):**

1. UNLESS OTHERWISE NOTED ON THE SCHEDULE, VALVE MOTORS SHALL BE OPEN-SHUT, 220/440 VOLT, 60 CYCLE, 3 PH, A.C. AND ENCLOSURES SHALL BE NEMA 4X. SEE ELECTRICAL

EB

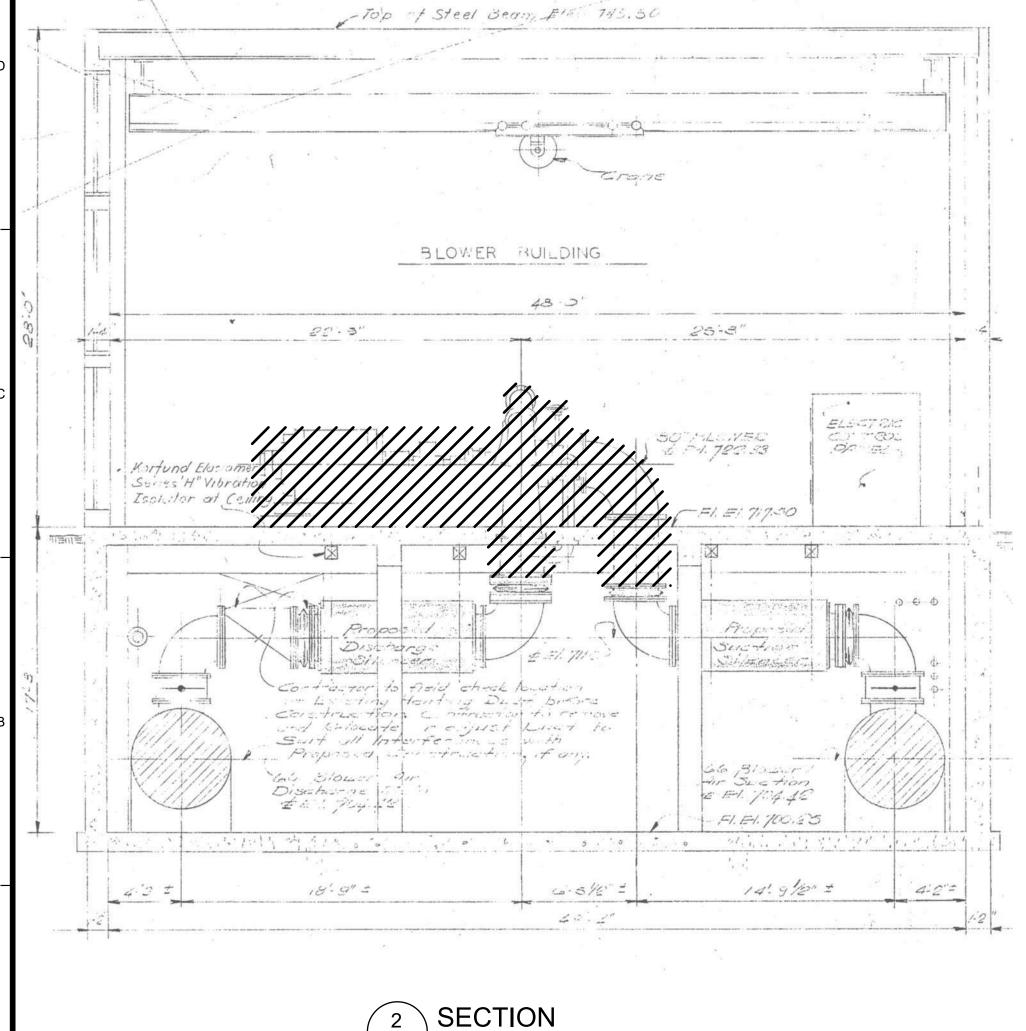
2. ALL MOTOR OPERATED VALVES IN RATED AREAS SHALL BE NEMA 7, CLASS 1, DIVISION 1. SEE ELECTRICAL, PROCESS, AND CIVIL DRAWINGS FOR RATED AREAS.

PROJ: 200-156238-1900⁻ DESN: DRWN: CHKD:

U

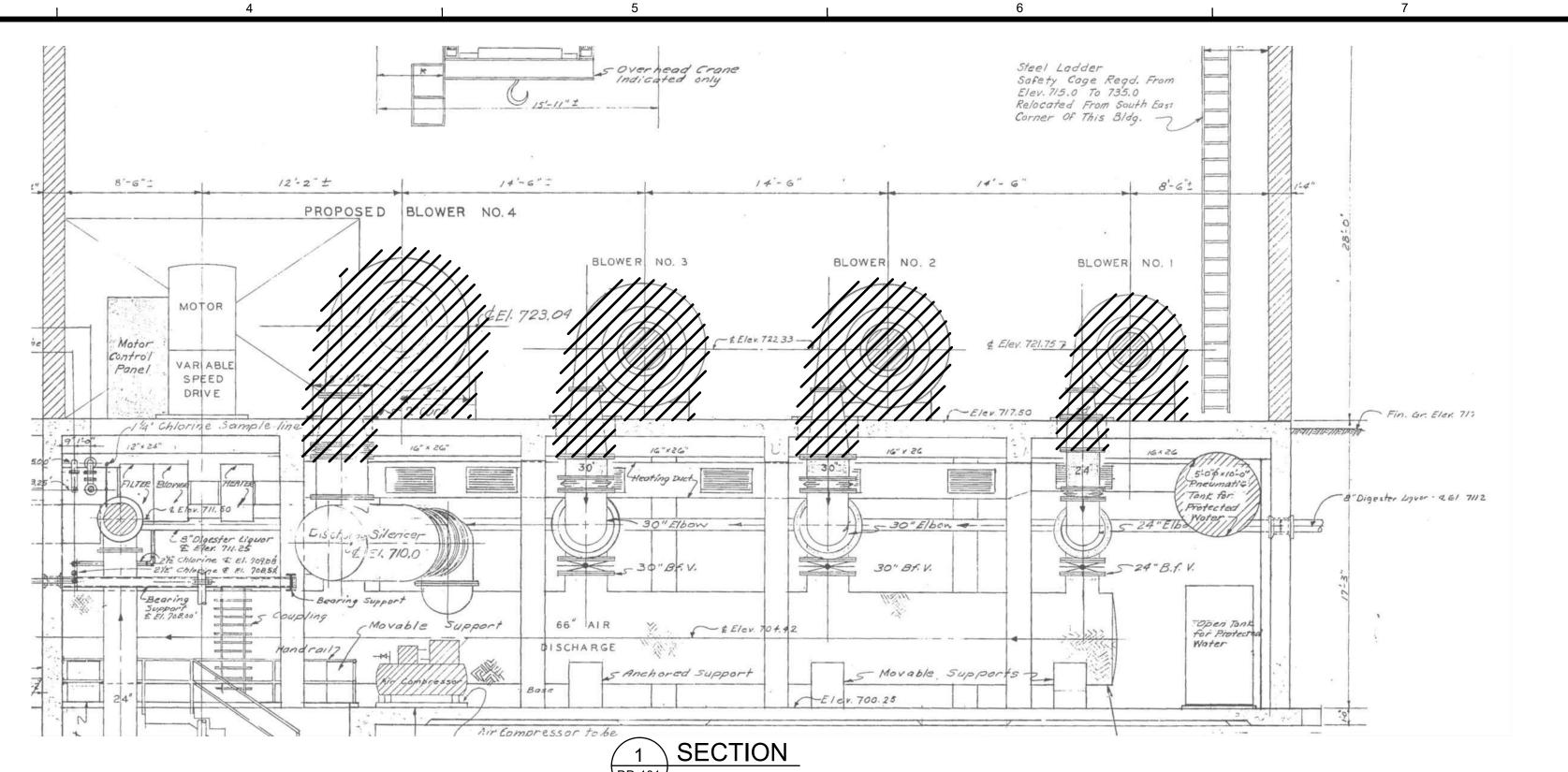
Bar Measures 1 inch, otherwise drawing not to scale

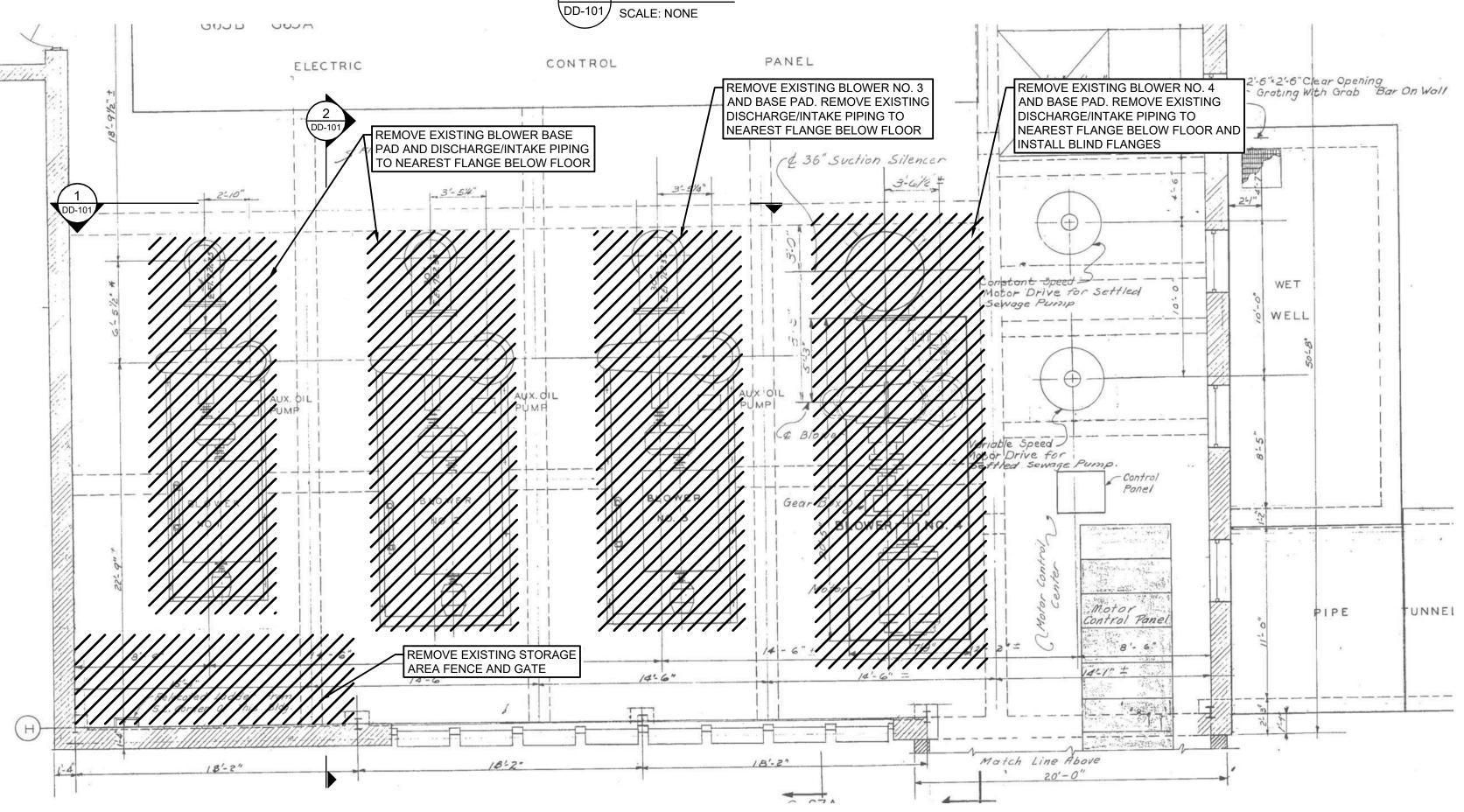




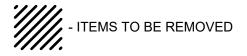
DD-101 SCALE: NONE

SCALE: NTS





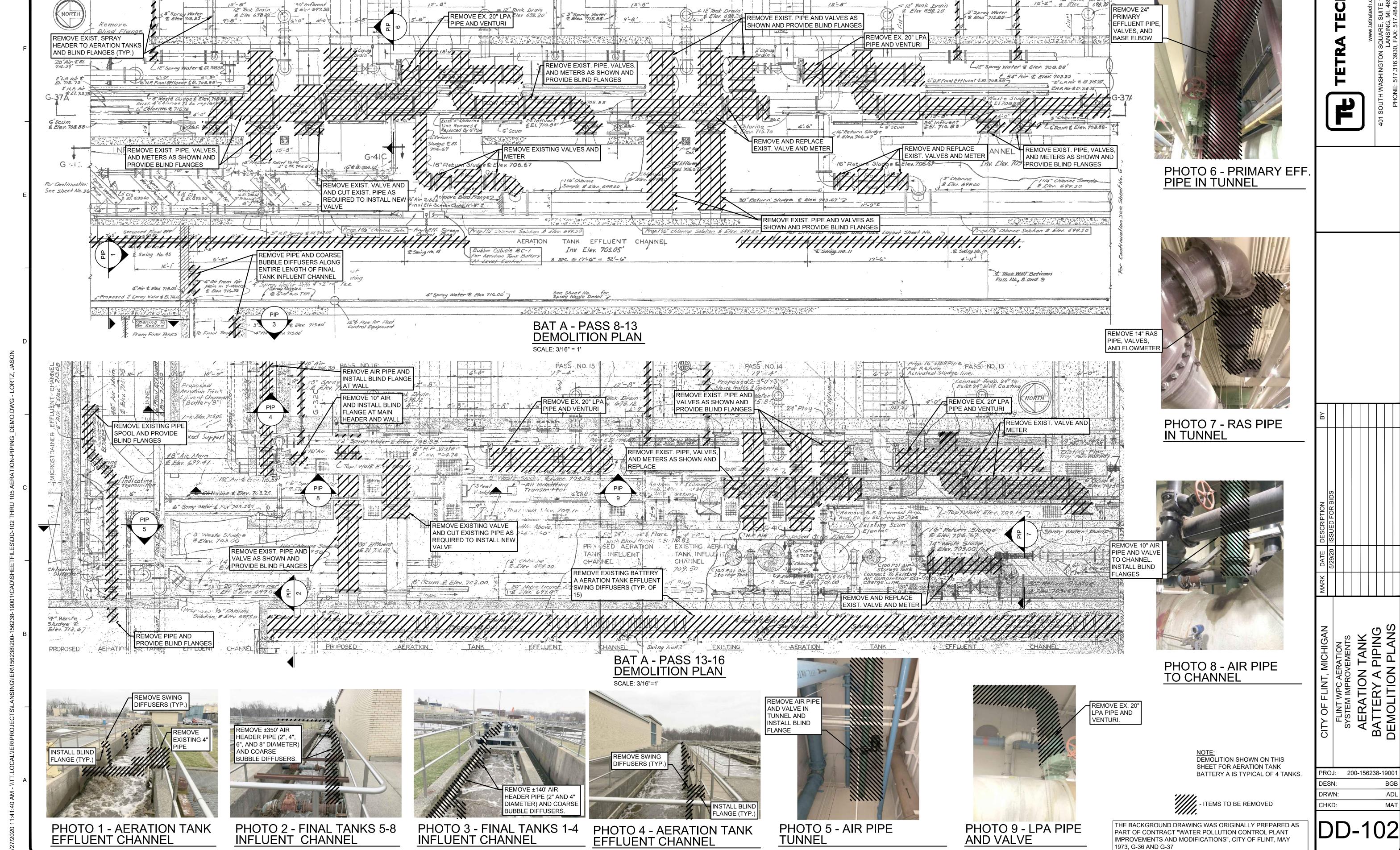
UPPER FLOOR BLOWER PLAN



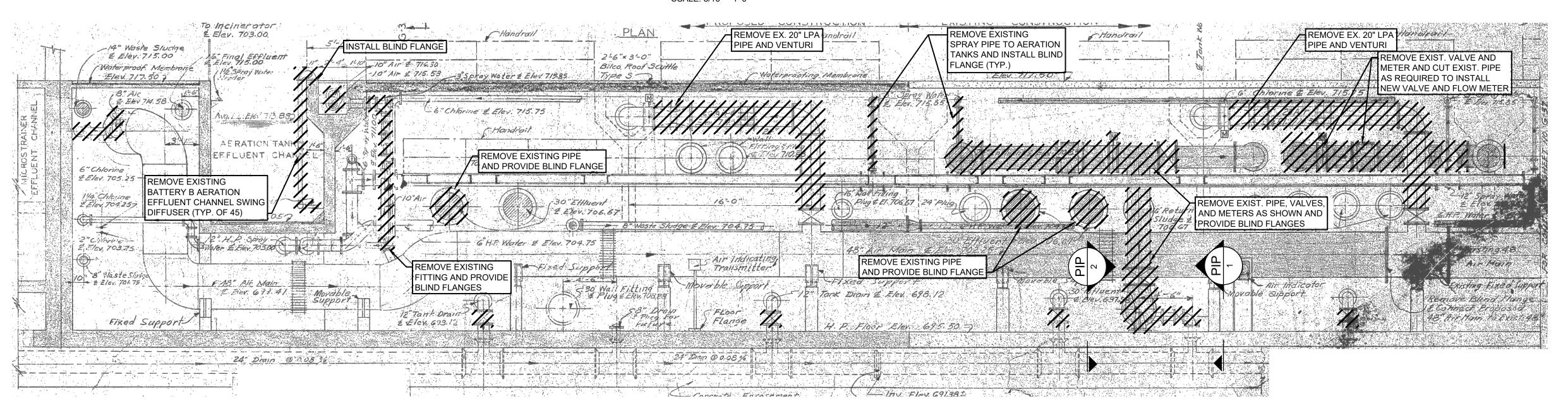
THE BACKGROUND DRAWING WAS ORIGINALLY PREPARED AS PART OF CONTRACT "WATER POLLUTION CONTROL PLANT IMPROVEMENTS AND MODIFICATIONS", CITY OF FLINT, MAY 1973, SHT. G-65, G-66 AND G-67

PROJ: 200-156238-1900⁻

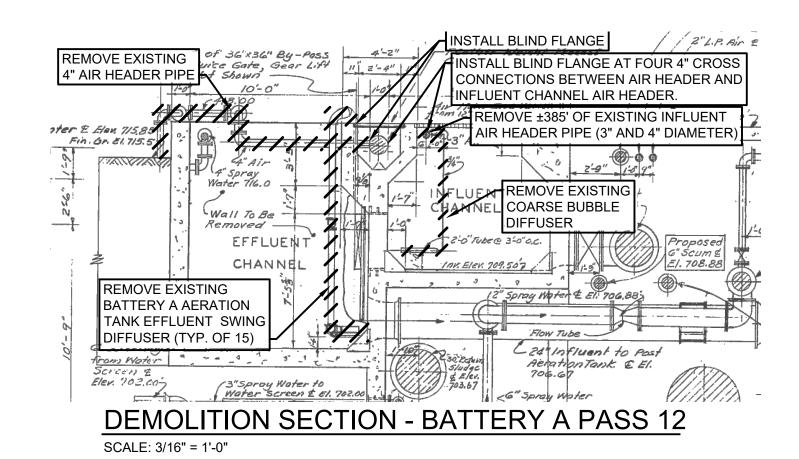
CHKD:



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



DEMOLITION SECTION - BAT A PASS 13-16 SCALE: 3/16" = 1'-0"



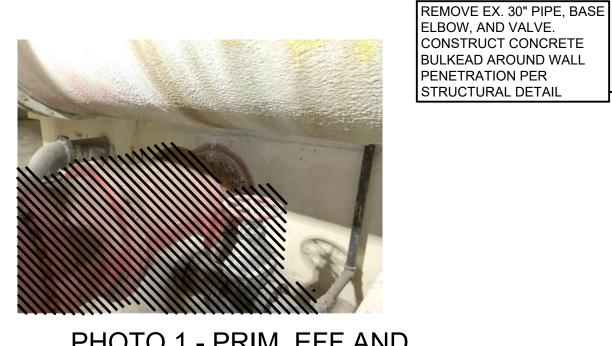


PHOTO 1 - PRIM. EFF AND DRAIN PIPE

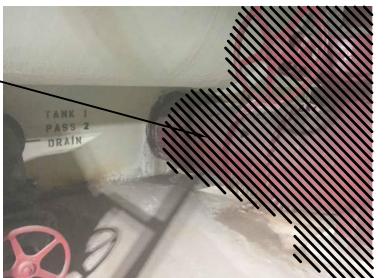
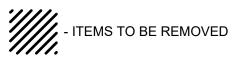


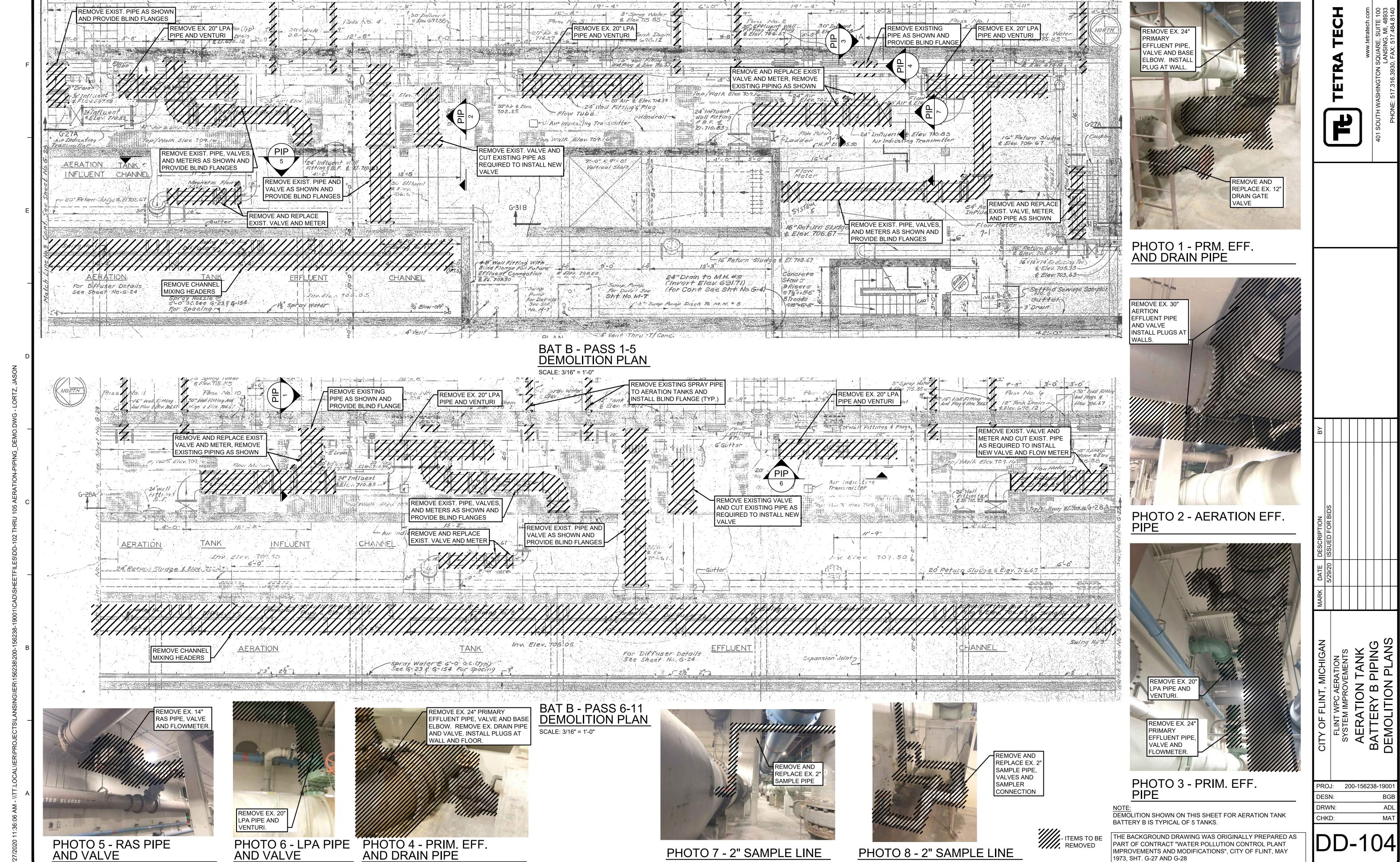
PHOTO 2 - PRIMARY EFFLUENT PIPE

DEMOLITION SHOWN ON THIS SHEET FOR AERATION TANK BATTERY A IS TYPICAL OF 4 TANKS.

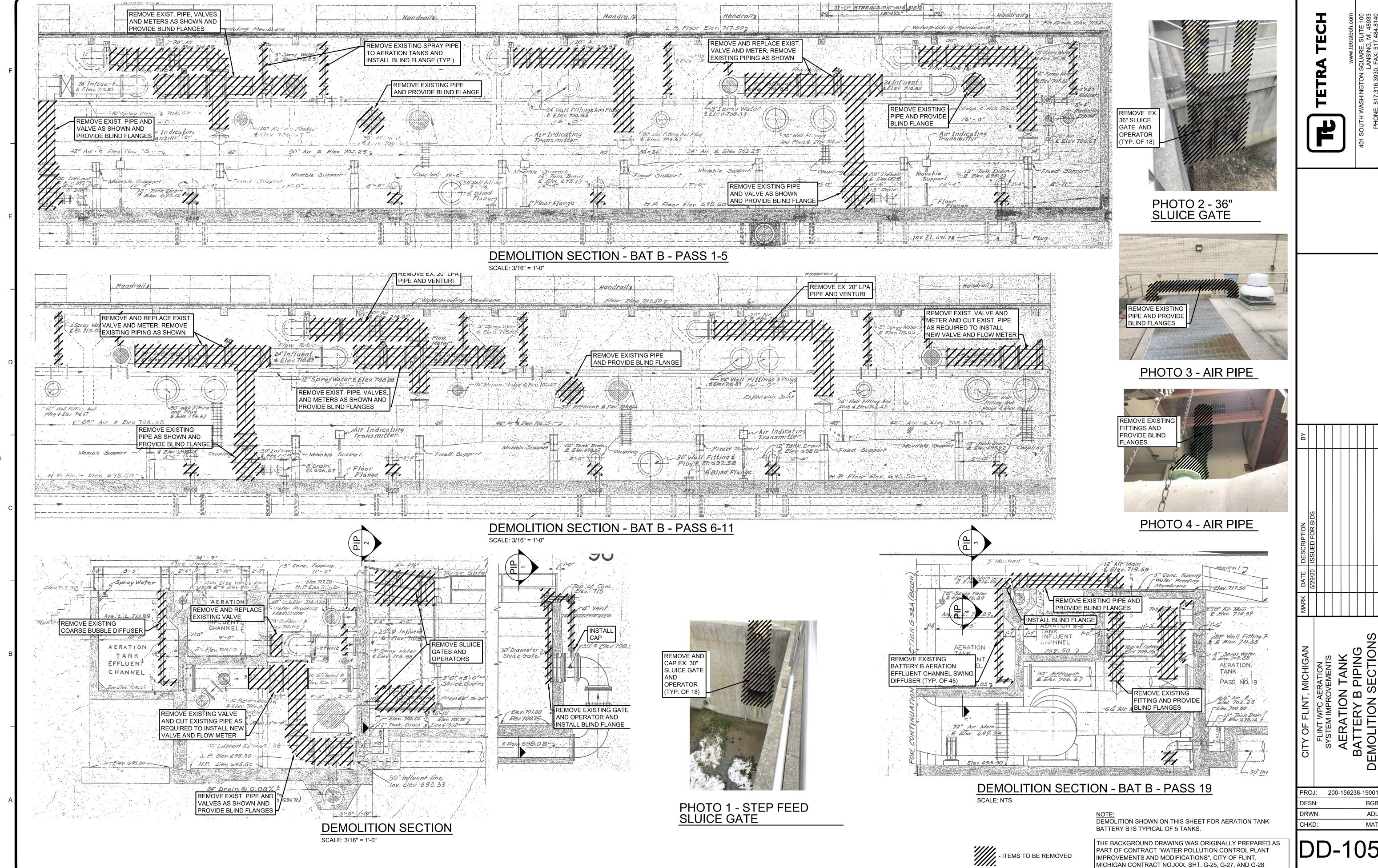


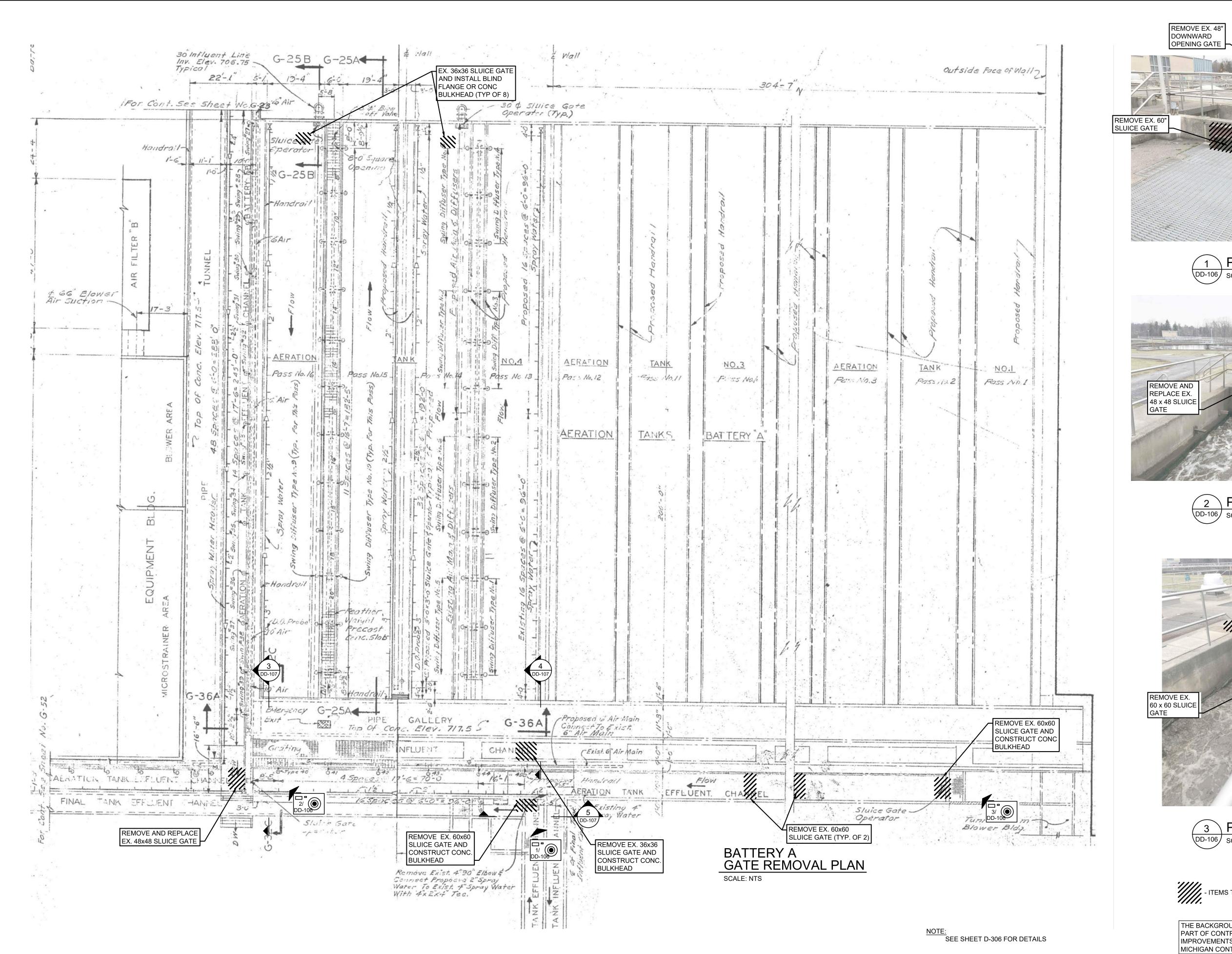
THE BACKGROUND DRAWING WAS ORIGINALLY PREPARED AS PART OF CONTRACT "WATER POLLUTION CONTROL PLANT IMPROVEMENTS AND MODIFICATIONS", CITY OF FLINT, MAY 1973, SHT. G-36, G-37, AND G-41

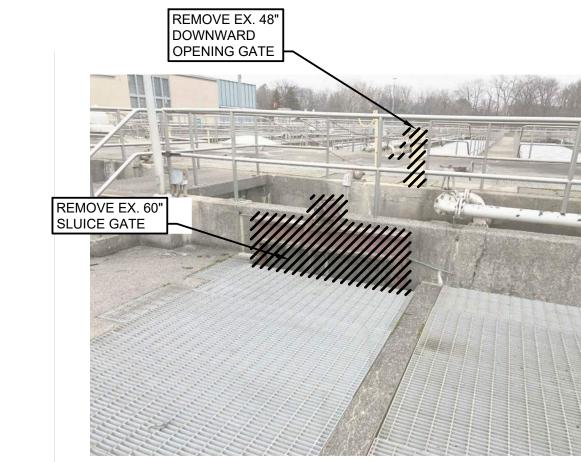
PROJ: 200-156238-1900² CHKD:



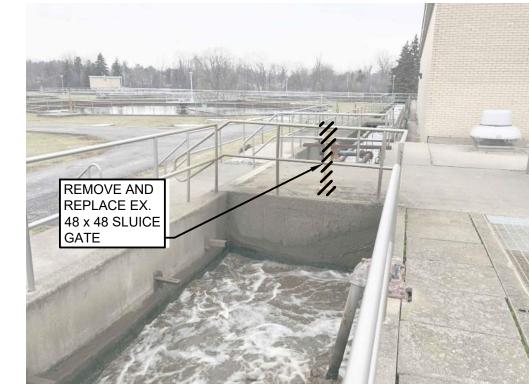
1973, SHT. G-27 AND G-28







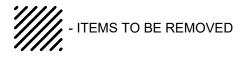




2 PHOTO 2 DD-106 SCALE: NONE







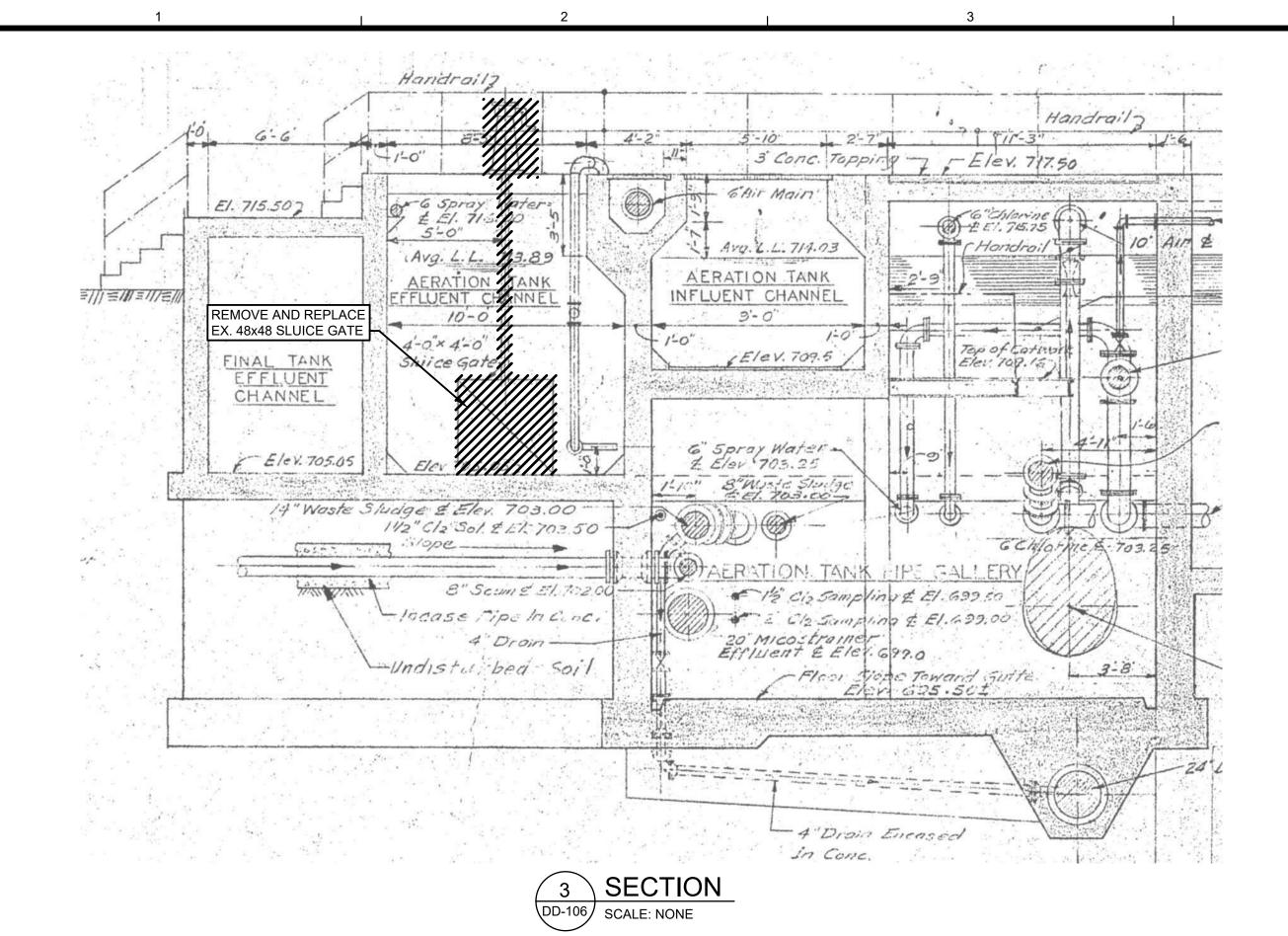
THE BACKGROUND DRAWING WAS ORIGINALLY PREPARED AS PART OF CONTRACT "WATER POLLUTION CONTROL PLANT IMPROVEMENTS AND MODIFICATIONS", CITY OF FLINT, MICHIGAN CONTRACT NO.XXX. SHT. G-24

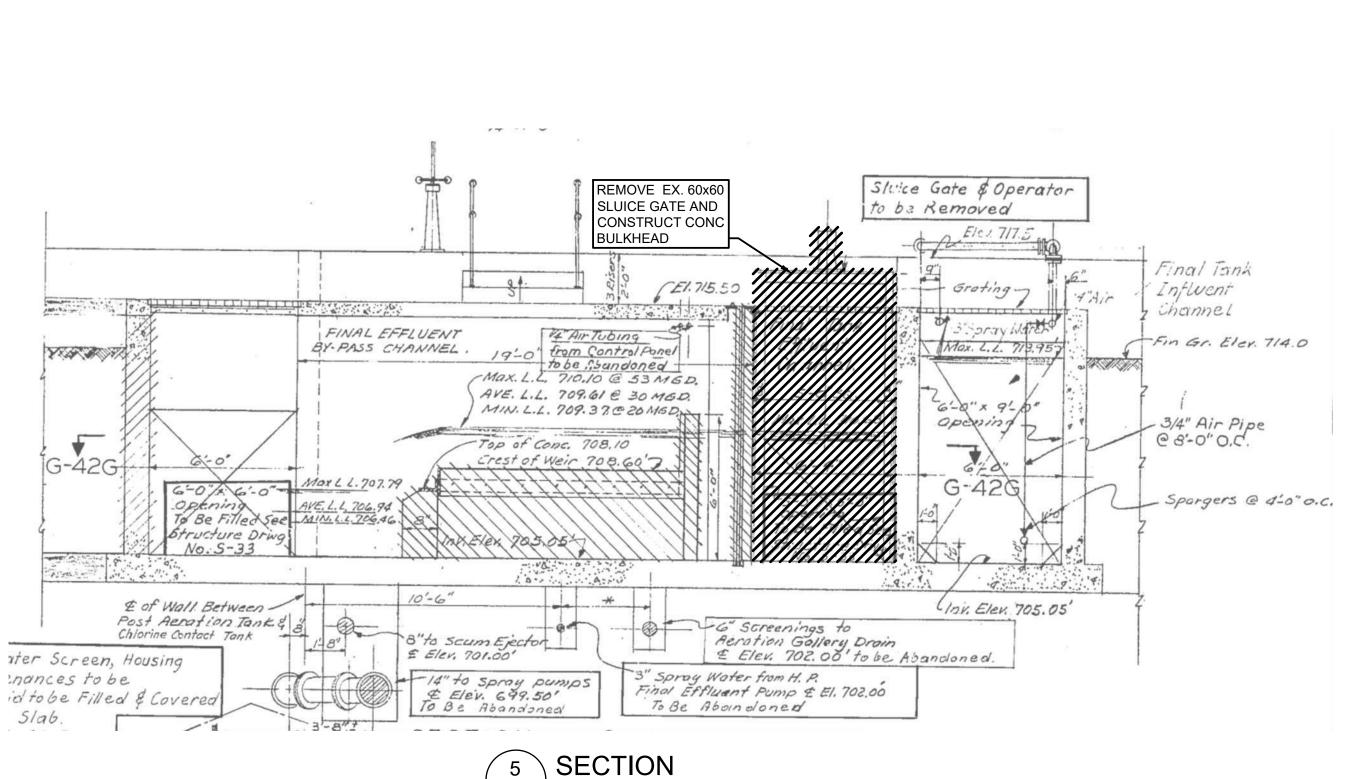
SYSTEM IMPROVEMENTS

BATTERY A GATES

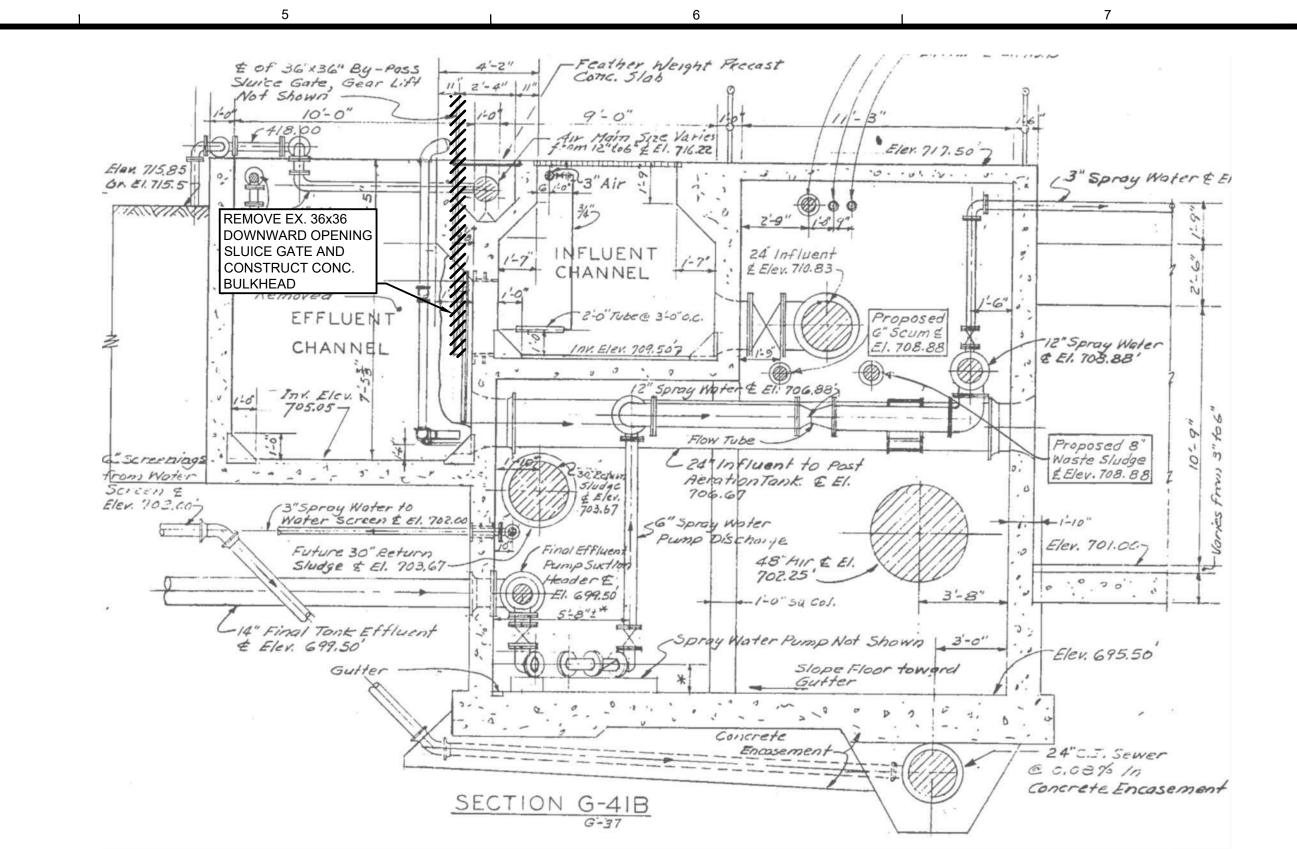
DEMOLITION PLAN

PROJ: 200-156238-1900° DRWN: CHKD:





DD-106 SCALE: NONE



4 SECTION DD-106 SCALE: NONE

III - ITEMS TO BE REMOVED

THE BACKGROUND DRAWING WAS ORIGINALLY PREPARED AS PART OF CONTRACT "WATER POLLUTION CONTROL PLANT IMPROVEMENTS AND MODIFICATIONS", CITY OF FLINT, MAY 1973, SHT. G-32, G-42 AND G-41

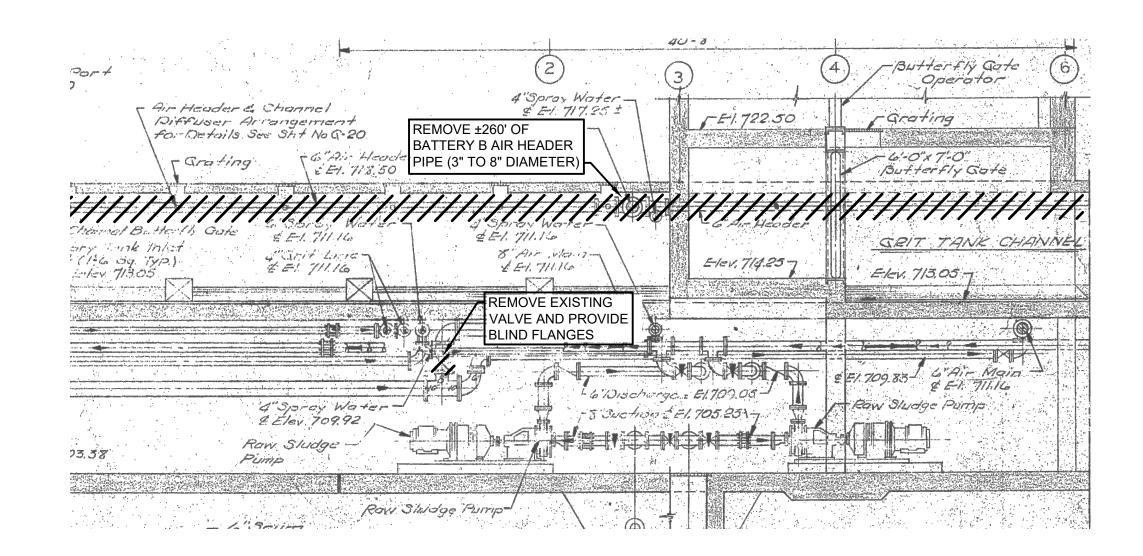
PROJ: 200-156238-1900⁻

DESN: DRWN: CHKD:

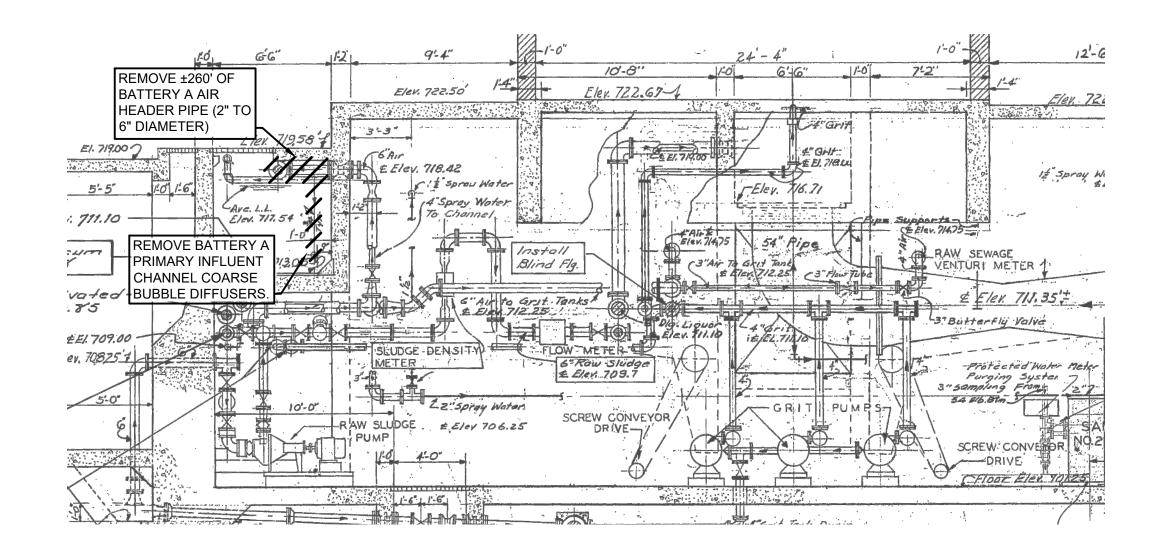
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Bar Measures 1 inch, otherwise drawing not to scale I

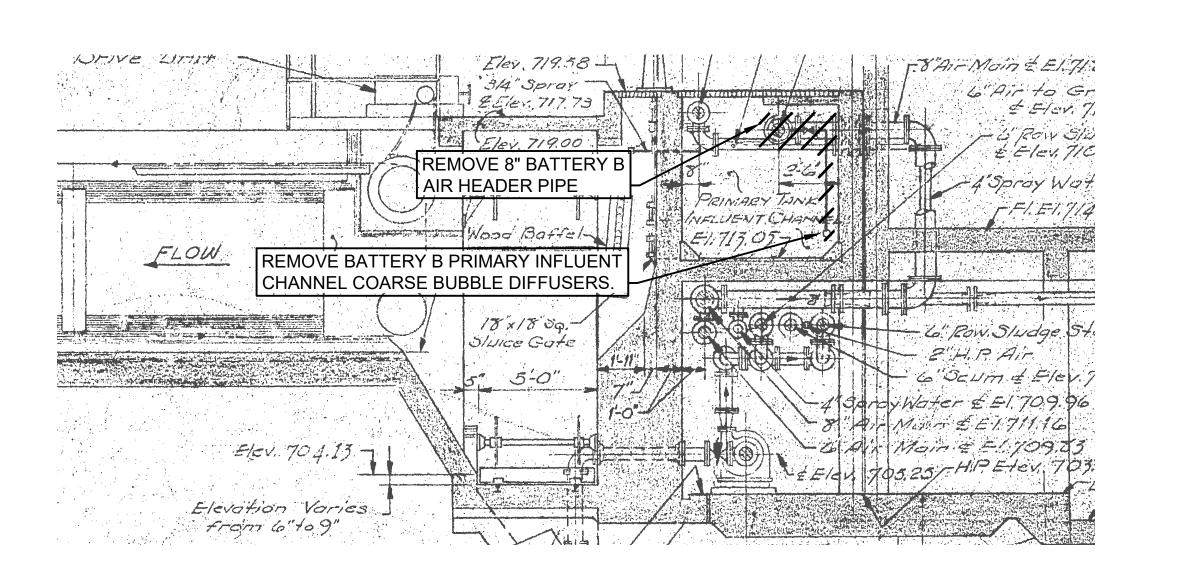
DEMOLITION SECTION - BAT A SCALE: NTS



DEMOLITION SECTION - BAT B SCALE: NTS



DEMOLITION SECTION - BAT A SCALE: NTS

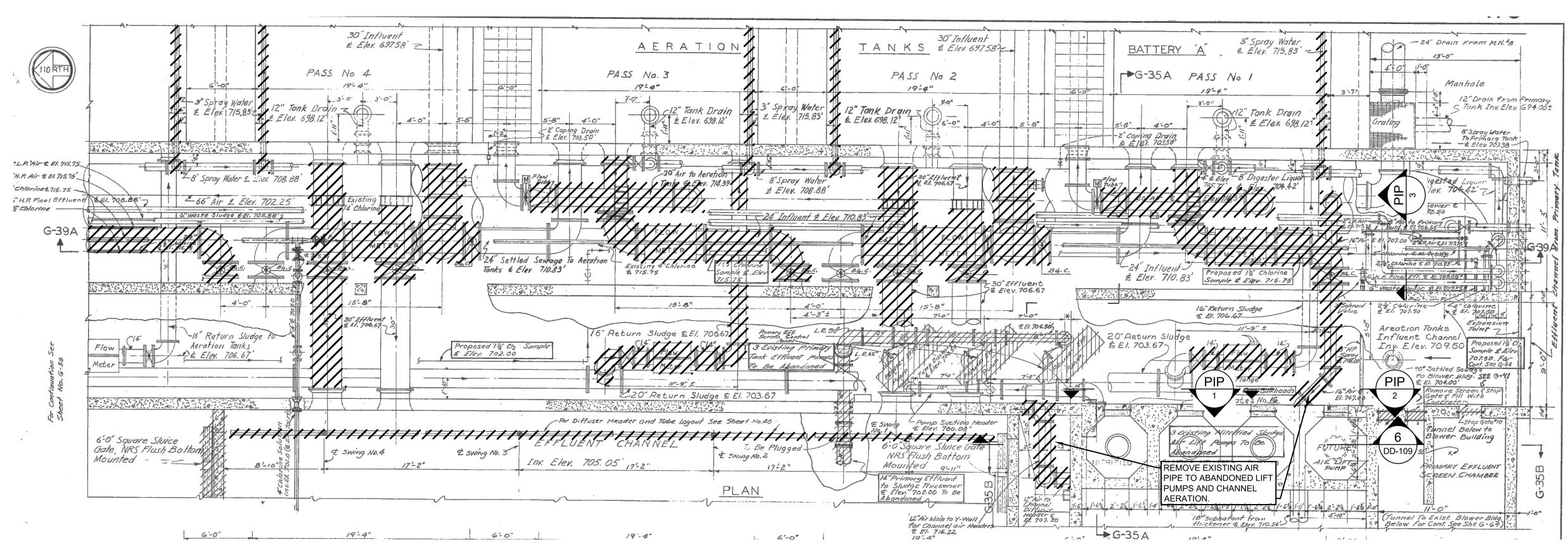


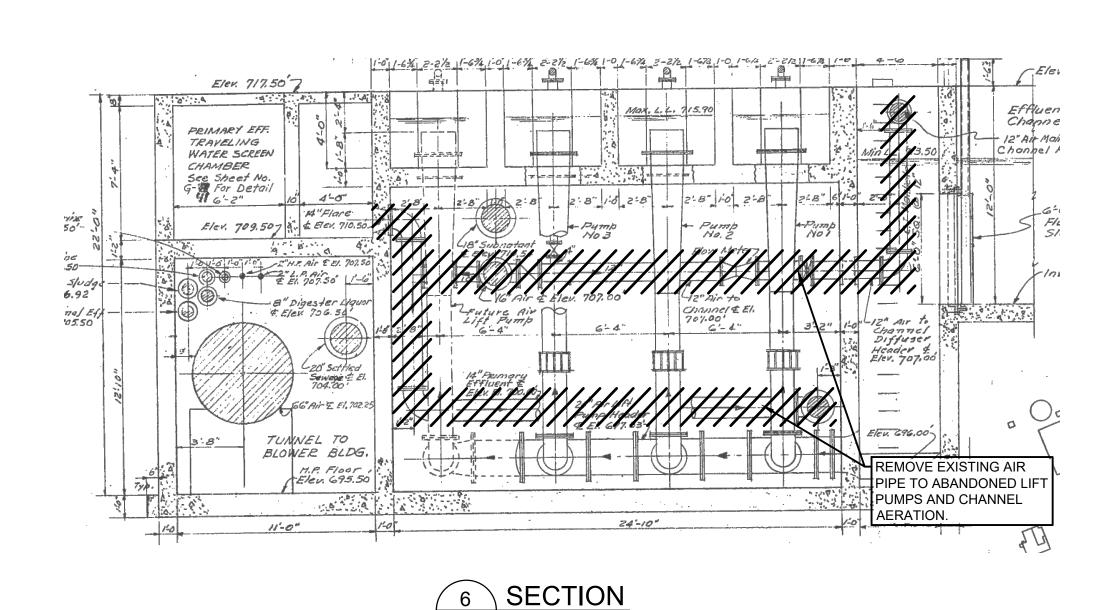
DEMOLITION SECTION - BAT A

////. - ITEMS TO BE REMOVED

THE BACKGROUND DRAWING WAS ORIGINALLY PREPARED AS PART OF CONTRACT "WATER POLLUTION CONTROL PLANT IMPROVEMENTS AND MODIFICATIONS", CITY OF FLINT, MAY 1973, SHT. G-25, G-27, AND G-28

PROJ: 200-156238-19001 CHKD:





DD-109 SCALE: NTS

BAT A - PASS 1-4 DEMOLITION PLAN SCALE: NTS



PHOTO 1 - AIR PIPE

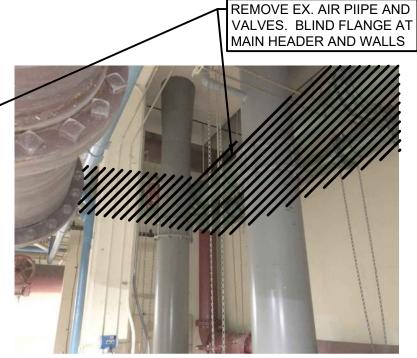


PHOTO 2- AIR PIPE



PHOTO 3 - AIR PIPE

.////. - ITEMS TO BE REMOVED

THE BACKGROUND DRAWING WAS ORIGINALLY PREPARED AS PART OF CONTRACT "WATER POLLUTION CONTROL PLANT IMPROVEMENTS AND MODIFICATIONS", CITY OF FLINT, MAY 1973, SHT. G-35 AND G-39

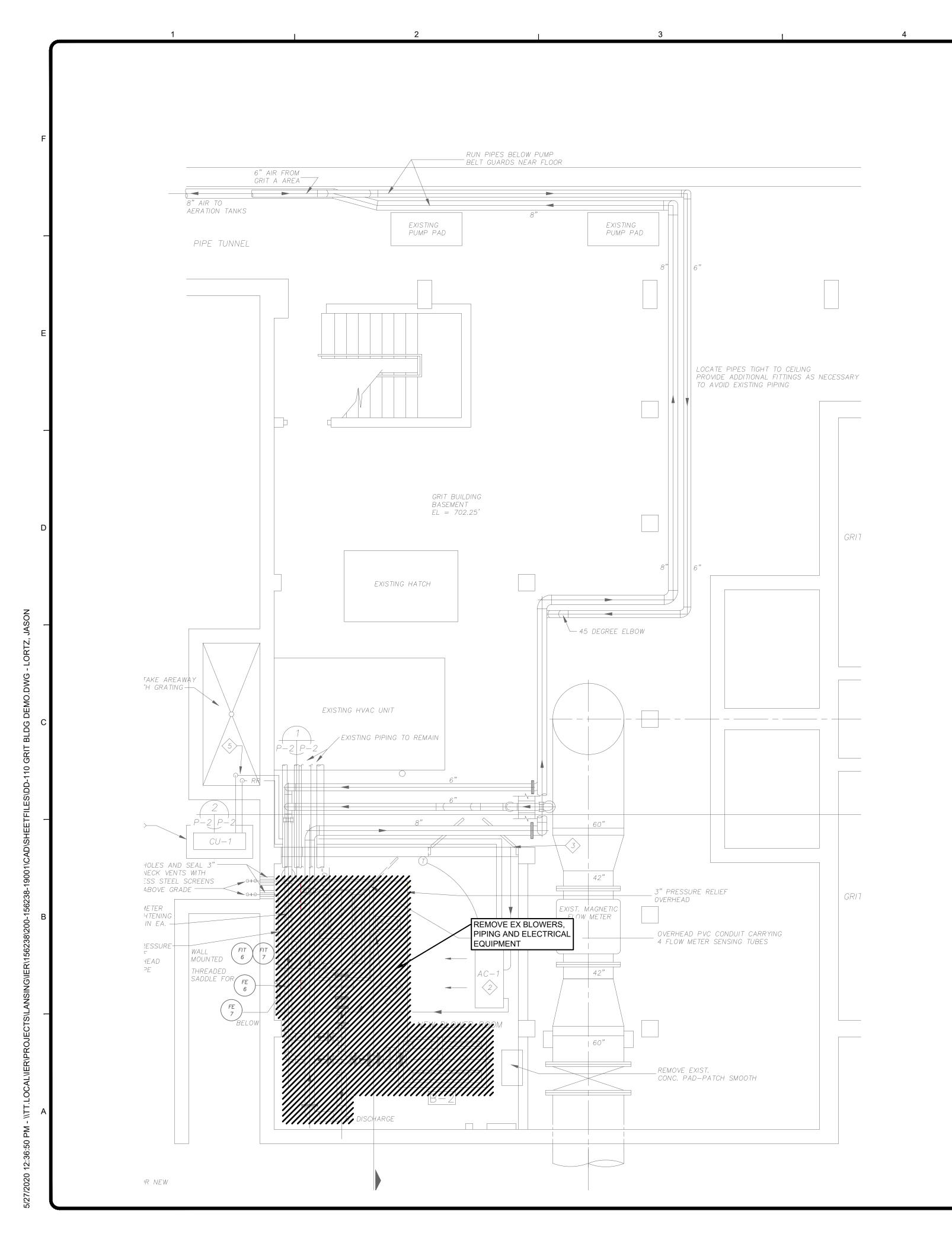
TETRA TEC

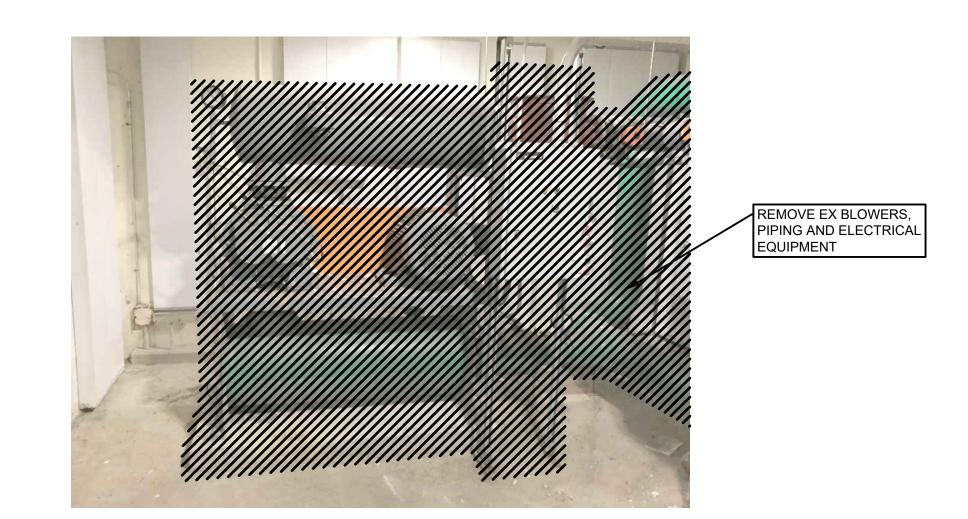
H H SOUTH WASH

S TERY A NG

PROJ: 200-156238-19001
DESN: BGB
DRWN: TJL
CHKD: MAT

DD-109





////. - ITEMS TO BE REMOVED

SCALE: 1/4" = 1'-0"

THE BACKGROUND DRAWING WAS ORIGINALLY PREPARED AS PART OF CONTRACT "WATER POLLUTION CONTROL PLANT IMPROVEMENTS AND MODIFICATIONS", CITY OF FLINT, MAY 1973 SHEETS P-2

Bar Measures 1 inch, otherwise drawing not to scale

PROJ: 200-156238-19001

DRWN: CHKD:

