ACADEMY CREEK WWTP OXYGEN PIPING REPLACEMENT

BRUNSWICK, GEORGIA

FOR THE



BGJWSC

1703 Gloucester Street Brunswick; GA 31520 (912) 261-7100

JUNE 2018





HUSSEY GAY BELL

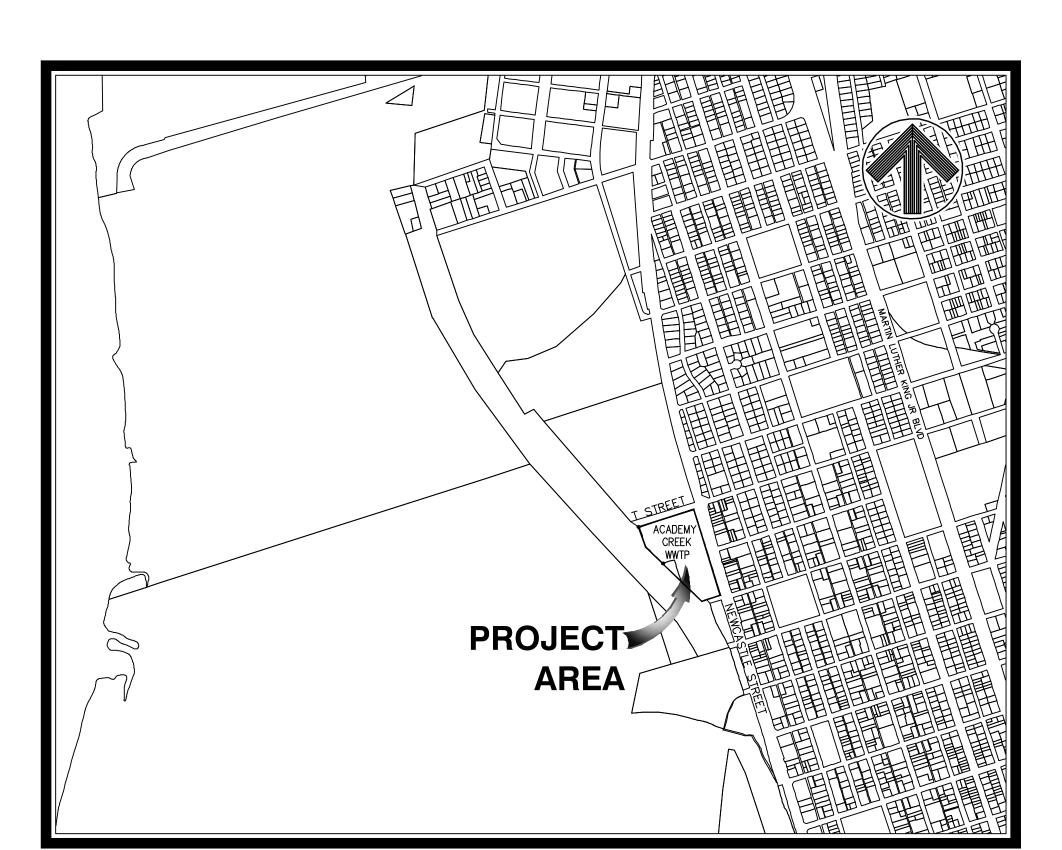
— Established 1958 —

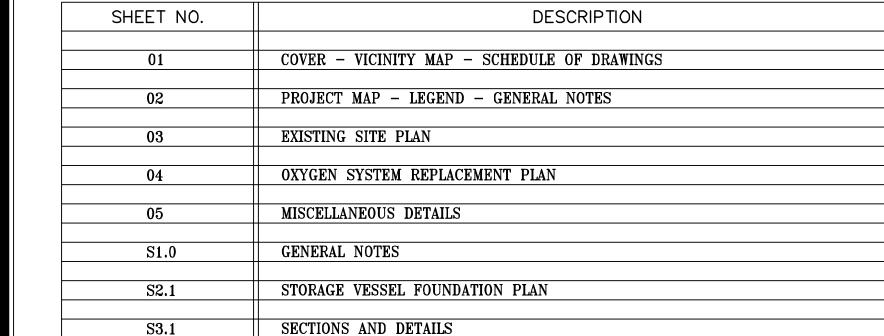
VICINITY MAP

SCALE: 1" = 1000'

329 COMMERCIAL DRIVE, SAVANNAH, GA 31406 / T:912.354.4626 SAVANNAH • ATLANTA • STATESBORO • CHARLESTON • COLUMBIA • NASHVILLE www.husseygaybell.com SCHEDULE OF DRAWINGS

ISSUED FOR BID





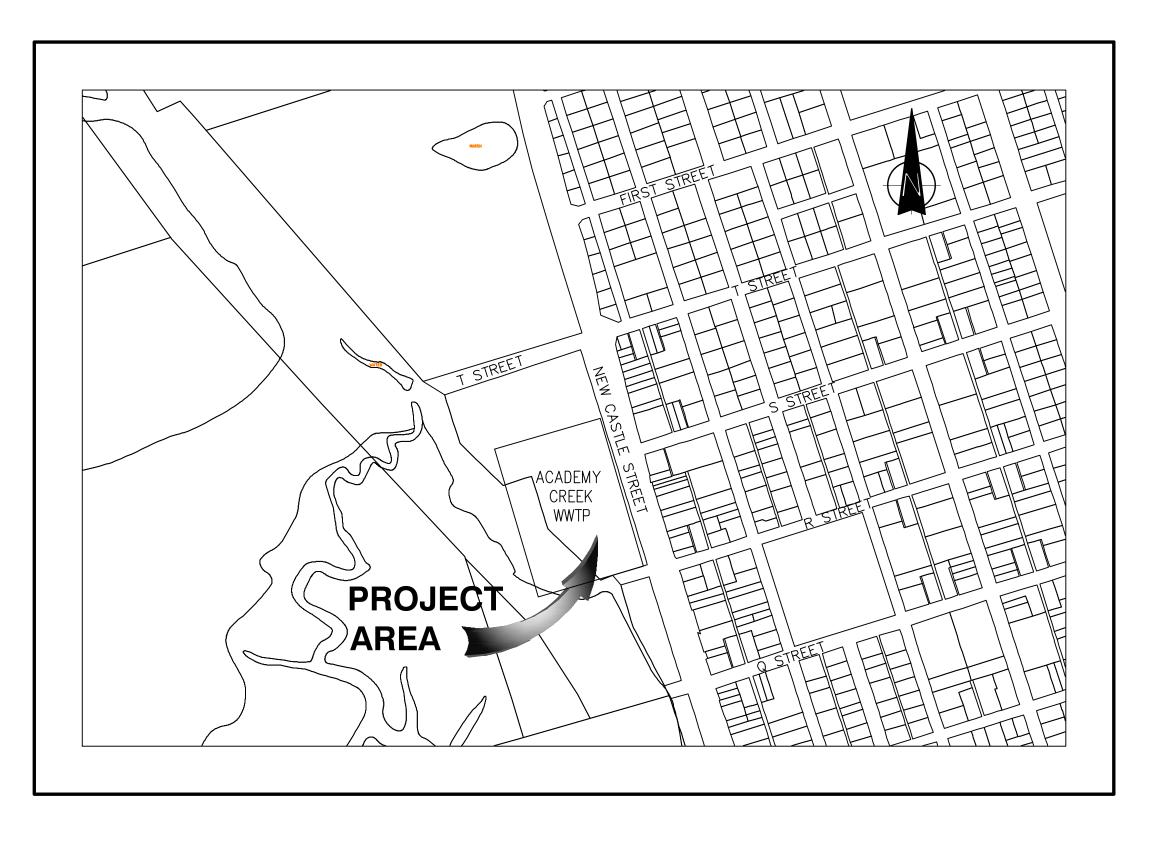
LEGEND & GENERAL NOTES

DEMOLITION PLAN

RENOVATION PLAN

E1

E2



PROJECT MAP

SCALE: 1" = 400'

GENERAL NOTES 1. It is the requirement of the contractor to make his own interpretation of all surface and subsurface data that is presented as to the nature and extent of the materials to be excavated, graded and compacted. The information shown on these plans and within the specifications does not in any way guarantee the amount or the nature of the material which may be encountered.

Ž. The contractor shall notify the engineer of any conflict with existing utilities not shown on these plans prior to the installation of any pipe.

3. All property/right—of—way lines are approximate, unless monument or pin locations are shown. 4. All property monuments and R/W monuments that are disturbed or damaged shall be replaced by a licensed surveyor. Concrete monument markers shall be a minimum 4" x 4" x 2'6".

5. All fences, posts, sheds, stored items, etc., moved to perform the work shall be replaced or moved back to the original location and any damage caused by removal and replacement shall be repaired so as to place the item in a condition equal to or better than existing

at the start of the work. 6. The contractor shall provide a legible set of as—built marked prints to the engineer showing in detail all changes from the design drawings. The locations of all service lines shall be

shown with dimensions to permanent structures or manholes. 7. All work shall be performed in a manner as to permit traffic to operate with the least amount of inconvenience possible. At least one travel lane must remain open at all times. All traffic control devices, signs, striping, and flagging shall be furnished by the contractor.

8. All existing drive and crossroads will be provided ingress/egress routes at all times during the construction activities.

9. The contractor shall not leave drainage ditches blocked, except for a brief time during actual installation of pipe. Provide temporary bypass drainage as required to have properly functioning drainage at all other times. Regrade all ditches disturbed by installation of pipe.

10. All ditch banks, existing grass shoulders, and other areas that are disturbed shall be reseeded. 11. All items which are to be removed and are not shown to be reused shall become the property of the contractor and shall be removed from the site. The contractor shall be responsible for the proper final disposal of such material.

12. The contractor is required to contact all utility companies and have utilities located before work begins. It is the contractor's responsibility to protect all utilities. Any damage to utilities shall be repaired at the expense of the contractor. If trench of pipe is within 5ft. of power poles, contractor must notify power company and take all precautions as required by power company. Backfilling and compaction required the same day as excavation occurs.

13. It is the contractor's responsibility to coordinate with utility company for any guy wire relocation, or temporary utility line disconnections. All fees by the utility company for conducting these services shall

14. The contractor shall pay special attention to underground telephone fiber optic cables, and the underground gas mains and overhead power cables. The contractor must stay a minimum of 7.5 ft. away from power lines for safety of construction activities. The contractor shall comply with the High Voltage Act of Georgia. The contractor shall take every precaution necessary for safety purposes. In areas where construction activities require such, the contractor shall have utility company wrap lines, support poles, etc. The contractor shall pay

all fees to the utility company for their work. 15. Required shutdown of utility lines shall be coordinated with the Brunswick—Glynn County Joint Water & Sewer Commision. All requests for disruption shall be made at least by 9:00AM the working day prior to the scheduled interruption.

16. The engineer shall approve any dewatering plan prior to its implementation.

17. All water main piping shall have a minimum of 36" of cover.

18. All force main piping shall have a minimum of 36" of cover. 19. All valves and fittings shall be restrained.

20. Clearing shall be performed to the extent necessary to construct the work within designated clearing easements. 21. The contractor shall schedule and accomplish the work so as to avoid damage to private property

and to minimize any inconvenience to property owners and their customers.

<u>EXISTING</u>	<u>PROPOSED</u>	LEGEND	<u>EXISTING</u>	<u>PROPOSED</u>	<u>)</u>
O SIGN	SIGN		○ IPF		IRON PIN
6	SPIGOT				CONCRETE MONUMENT
— → OR —	—— DITCH		_ 		RAILROAD
48" RCP	STORM DRAIN LI	NE			ASPHALT PAVEMENT
	DRAINAGE INLET				CASING
					FENCE
SAN —	SANITARY SEWER				RIGHT-OF-WAY
SSMHS	SANITARY SEWER	R MANHOLE			ROAD CENTERLINE
FM	FORCE MAIN				WOODS LINE
	AIR RELEASE VA	LVE IN MANHOLE			
	PLUG VALVE IN	MANHOLE			TREE OR BUSH
\forall					
	FIRE HYDRANT A	ASSEMBLY			LIIMITS OF DISTURBANCE
⊗	VALVE			xxx	TEMPORARY SEDIMENT BARRIER
W	WATER METER			(Sd1-S) (Sd1-NS)	TEMPORARY SEDIMENT TRAP
	WATER LINE				S=SENSITIVE(DOUBLE) NS=NON SENSITIVE
WVMH	WATER VALVE			(Sd1-Bb)	TEMPORARY SEDIMENT BASIN BRUSH BARRIER
\$	LIGHT POLE			Sd2	INLET SEDIMENT TRAP
G-	GUY WIRE				DUOT CONTROL
Ø	GUY POLE			Du	DUST CONTROL MULCHING
Ø	TEEPHONE POLE			Ds2	TEMPORARY GRASSING
Т	TELEPHONE BOX			Ds1 Ds2 Ds3	PERMANENT GRASSING
Ø	POWER POLE				
GM	GAS METER			(co)	TEMPORARY CONSTRUCTION EXIT
	TRANSFORMER			(St)	STORM DRAIN OUTLET PROTECTION
P	POWER LINE TELEPHONE LINE			<u> </u>	CONTOURS
	ELECTRIC LINE		_ * _ * _ * _ * _ * _ * _ * _ * _ * _ *		
	ELECTRIC LINE		- * * - * * *		WETLANDS

OXYGEN LINE

FIBER OPTIC CABLE UNDERGROUND CABLE

MAILBOX





DESIGNED DRAWN CHECKED
JCB SKK JCB DATE: JUNE 2018

JOB NO. 118291604

SCALE: AKS SEHKOWAN

DRAWING NUMBER

WETLANDS

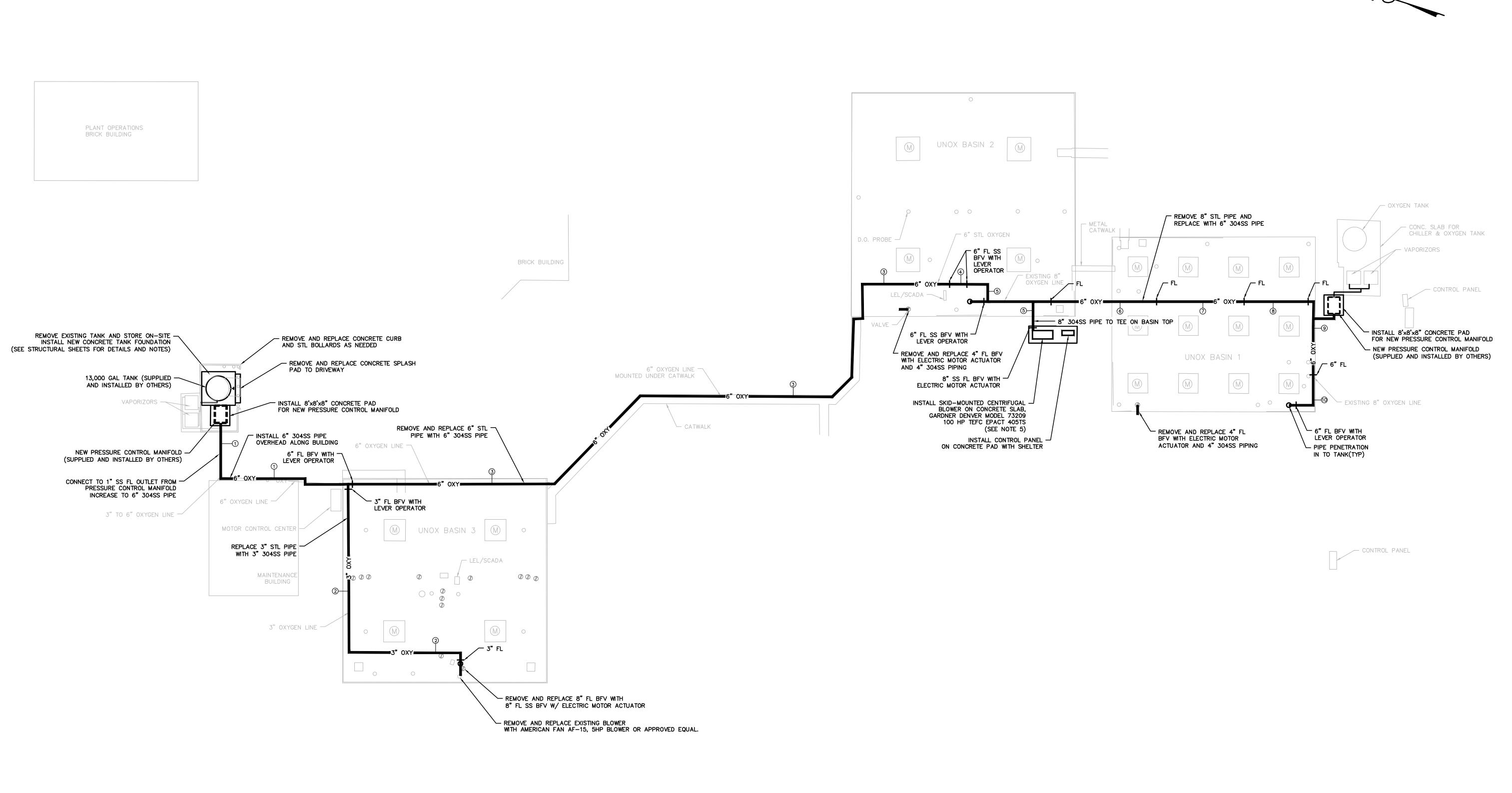
UTILITY/CONSTRUCTION EASEMENT

HORIZONTAL DATUM IS ON GEORGIA STATE PLANE COORDINATES, EAST ZONE, DERIVED FROM EGPS NETWORK OBSERVATIONS.

VERTICAL DATUM IS NAVD88, DERIVED FROM EGPS NETWORK OBSERVATIONS.



JOB NO. 118291604



NOTES:

1. ALL PIPE SUPPORTS SHALL BE REPLACED. SEE STRUCTURAL SHEETS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION ON PIPE SUPPORTS.

2. ALL WORK AT THE PLANT SHALL BE COORDINATED WITH JWSC WWTP OPERATIONS STAFF.

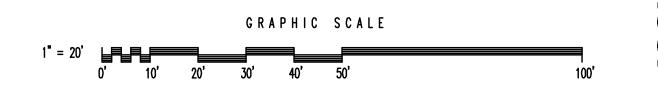
3. INSTALLATION OF NEW COMPONENTS SHALL BE PHASED SUCH THAT THE OXYGEN SYSTEM REMAINS IN SERVICE DURING CONSTRUCTION. ONLY ONE UNOX BASIN, OXYGEN TANK AND FEED CONTROL SYSTEM CAN BE REMOVED FROM SERVICE AT A TIME.

4. ALL REPLACED VALVES SHALL BE STAINLESS STEEL SUITABLE FOR USE IN OXYGEN SERVICE.

- 5. BLOWER ACCESSORIES SHALL, AT MINIMUM, INCLUDE:
 - 1-SET OF NEOPRENE BASE PADS
 - 1-COUPLING AND COUPLING GUARD
 - 1-6" EXPANSION JOINT
 - 1-6" WAFER-STYLE CHECK VALVE 1-6" INLET BUTTERFLY VALVE-LEVER-OPERATED, METAL SEAT (ON INLET)

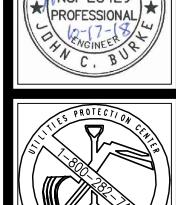
 - 1-6" OUTLET BUTTERFLY VALVE-LEVER-OPERATED, RESILIENT SEAT (ON-OUTLET)
 - 1-SMARTMETER CONTROL PANEL WITH SURGE/OVERLOAD PROTECTION
 - 1-FS-1 TWO-STAGE INLET FILTER/SILENCERS

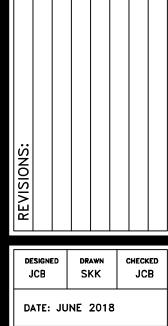
6. THE CONTRACTOR SHALL INSTALL NEW DISSOLVED OXYGEN PROBE, SUPPLIED BY SCADA INTEGRATOR, AT UNOX BASIN 1 AT A LOCATION TO BE DETERMINED BY JWSC STAFF.



NOTE: ALL ELEVATIONS ARE NAVD 1988.







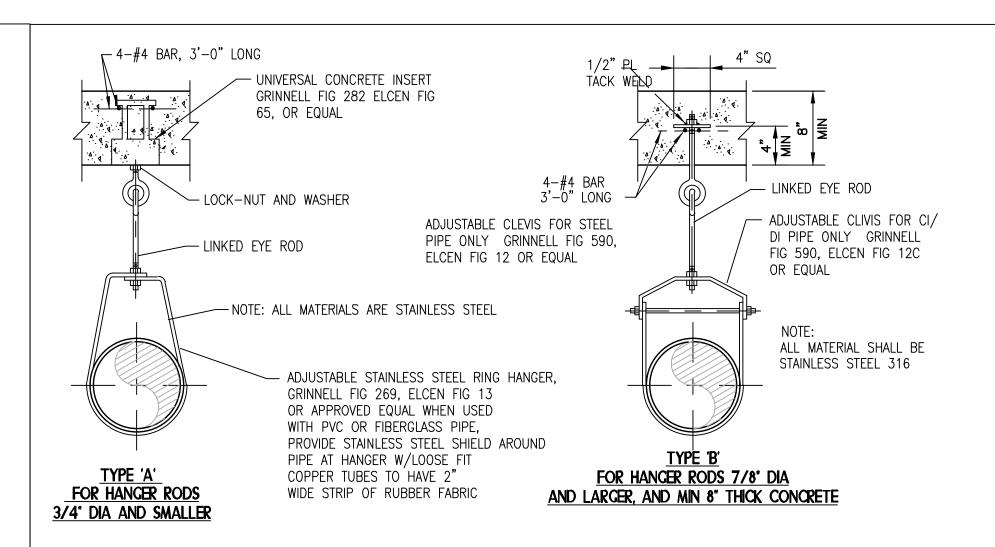
JOB NO. 118291604 SCALE: AS SHOWN

ADJUSTABLE PIPE

SUPPORT DETAIL

NTS

	F		PIPE SUPPOR' SIONS IN INCH		
PIPE SIZE	A	В	С	D MIN	D MA
2 1/2	2 1/2	1 1/2	9	8	11 1
3	2 1/2	1 1/2	9	8 1/4	11 3
3 1/2	2 1/2	1 1/2	9	8 1/2	12
4	3	2 1/2	9	10 1/4	14
6	3	2 1/2	9	11 5/8	15 1
8	3	2 1/2	9	13 5/8	16 1
10	3	2 1/2	9	14 5/8	18 1
12	3	2 1/2	9	15 5/8	19 3
14	4	3	11	18 5/8	20 3
16	4	3	11	19 7/8	22 1
18	6	3 1/2	13 1/2	21 1/4	24
20	6	3 1/2	13 1/2	23 1/4	25 1
24	6	4	13 1/2	26 1/2	28 1
30	6	4	13 1/2	29 5/8	31 1
32	6	4	13 1/2	30 5/8	32 3
36	6	4	13 1/2	32 5/8	34 3



	PIP	E HANGER	RODS & SUPPOF	RT SPACING		
PIPE DIA	ROD DIA		ipport Acing Teet)	WEIGHT LIMIT (LBS)		
(INCHES)	(INCHES)	STL PIPE	CI/DI PIPE	TYPE 'A'	TYPE 'B'	
1 & SMALLER	3/8	5	MIN 1 HANGER PER PIPE LENGTH AND FITT MAX SPACING 5 FEET— LOCATE HANGER CLOSE TO EACH CONNECTION	610		
1 1/2 TO 2	3/8	5		PER D FITT FEET- CLOSE CTION	610	
2 1/2 TO 3 1/2	1/2	10			1130	
4 TO 5	5/8	10		1430		
6	3/4	10		1430	3800	
8,10,12	7/8	10			3800	
14,16	1	10			3800	

PIPE HANGER DETAIL

ADJUSTABLE PIPE SUPPORT

APPROX DIMENSIONS IN INCHES

8

8 ?

8 ?

11 ? 11 ?

12

14

15 ?

16 ? 18 ?

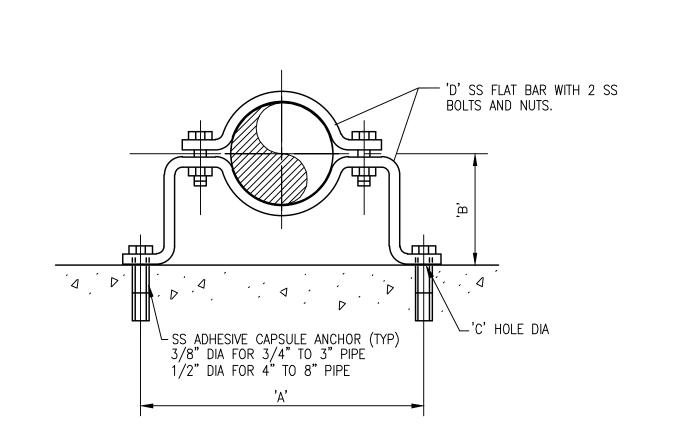
19 ?

1 ?

1 ?

2 ? | 1 ? | 9

NOTE: PIPE AVOVE AND BELOW GRADE TO HAVE STAINLESS STEEL HARDWARE.



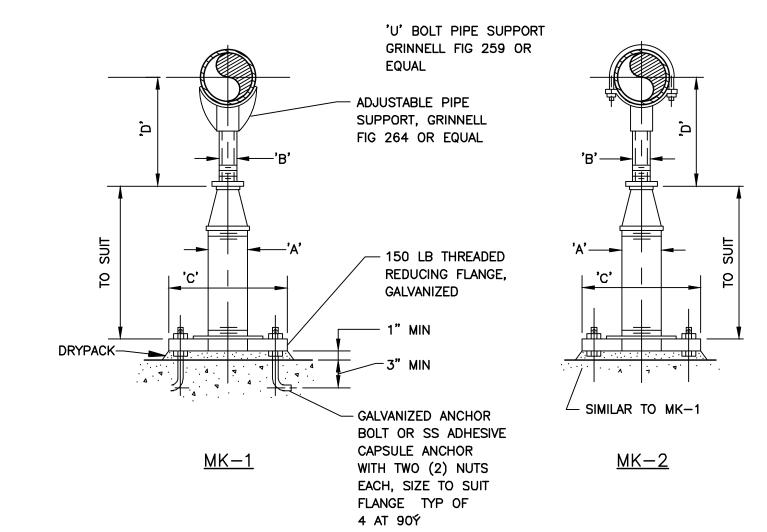
		DIMENSION	NS IN INCHES		
PIPE DIA.	'A'	'B' SEE NOTE 3 BELOW	'C' HOLE DIA.	'D' FLAT BAR SIZE	LOAD RATING LBS.*
3/4	5-15/16	2-1/2	7/16	3/16 X 1-1/4	300
1	6-1/4	2-5/8	7/16	3/16 X 1-1/4	300
1-1/4	6-11/16	2-3/4	7/16	3/16 X 1-1/4	300
1-1/2	6-15/16	3	7/16	3/16 X 1-1/4	300
2	8-5/16	3-3/16	7/16	1/4 X 1-1/4	500
2-1/2	8-7/8	3-7/16	7/16	1/4 X 1-1/4	500
3	9-1/8	3-3/4	7/16	1/4 X 1-1/4	500

* SAFETY FACTOR OF 5

- PIPE CLAMP, WASHER AND SHIELD SHALL BE TYPE 316 STAINLESS STEEL
- WHEN USED WITH PVC OR FIBERGLASS PIPE PROVIDE SS SHIELD AROUND PIPE AT CLAMP, WITH LOOSE FIT. WRAP COPPER TUBES WITH 2" STRIP OF RUBBER FABRIC 3. FOR FLANGED PIPING INCREASE 'B' DIMENSION AS

PIPE CLAMP FOR INDIVIDUAL PIPES DETAIL

4. ALL ANCHOR BOLTS SHALL BE TYPE 316 SS.



3/4" CHAMFER (TYP)-

#4@12" C/C

NOT TO SCALE

√-#4@12" C/C

FOUNDATION SECTION

-| |-

						1
YA' 150 LB THREADED 'A' 5	4	3	2 ?	9	10 ?	
/ DEDUCATION OF TAXABLE	6	3	2 ?	9	11 ?	
GALVANIZED C'C' P	8	3	2 ?	9	13 ?	Γ
igg 1" MIN $igg $ $igg $ $igg $ 1 MIN	10	3	2 ?	9	14 ?	
	12	3	2 ?	9	15 ?	
3" MIN	14	4	3	11	18 ?	
GALVANIZED ANCHOR SIMILAR TO MK-1	16	4	3	11	19 ?	
BOLT OR SS ADHESIVE	18	6	3 ?	13 ?	21 ?	
CAPSULE ANCHOR WITH TWO (2) NUTS $MK-2$	20	6	3 ?	13 ?	23 ?	
EACH, SIZE TO SUIT	24	6	4	13 ?	26 ?	
FLANGE TYP OF 4 AT 90Ý	30	6	4	13 ?	29 ?	
	32	6	4	13 ?	30 ?	
ADJUSTABLE PIPE SUPPORT	36	6	4	13 ?	32 ?	Γ
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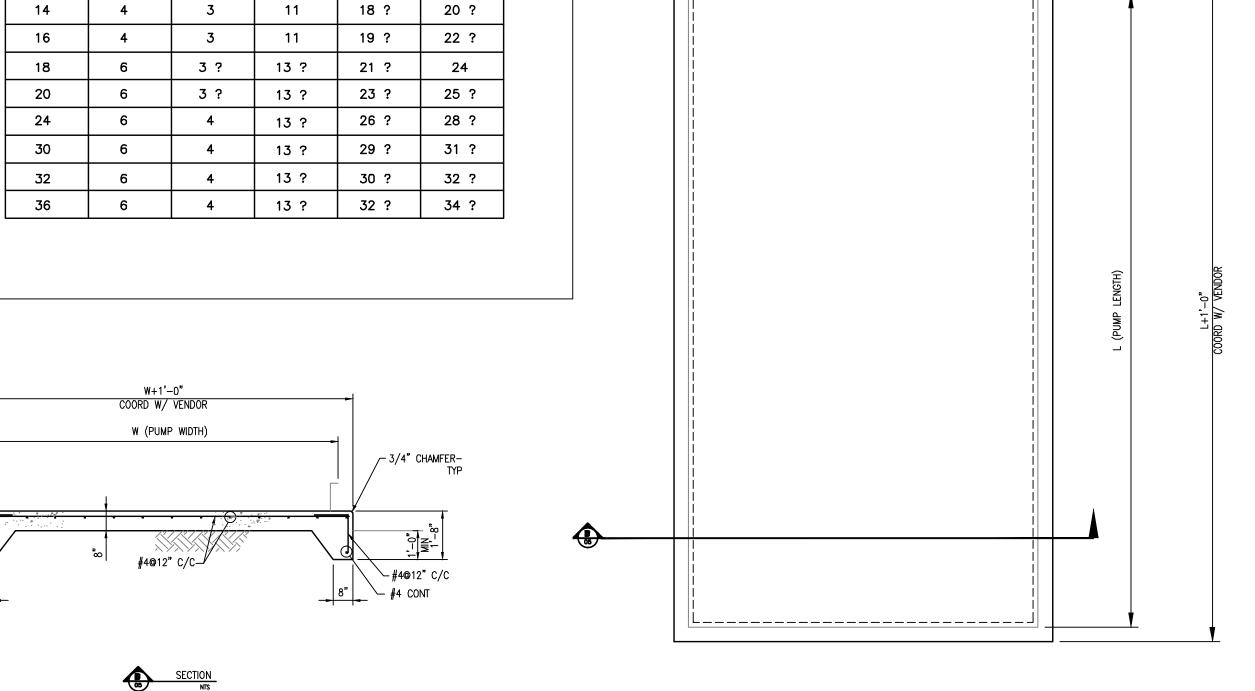
SIZE

2 ?

3

2 ?

2 ?



BLOWER FOUNDATION PLAN

DESIGNED DRAWN CHECKED
JCB SKK JCB

DATE: JUNE 2018

JOB NO. 118291604

SCALE: AS SHOWN

2) ALL REFERENCED STANDARDS REFER TO THE LATEST EDITION.

3) DESIGN CRITERIA:

- A) BUILDING CODE: IBC 2012 WITH GEORGIA AMENDMENTS
- C) ROOF LIVE LOAD: 20 PSF
- D) GROUND SNOW LOAD: 0 PSF
- E) RISK CATEGORY: III
- F) WIND LOAD DATA:
- a) V: 142 MPH
- b) WIND PRESSURE ON TANK: 26.10 PSF
- c) WIND EXPOSURE FRONT: C
- d) WIND EXPOSURE BACK: C
- e) Fp = 5.4 KIPS
- G) EARTHQUAKE DESIGN DATA:
- a) SEISMIC IMPORTANCE FACTOR: 1.25
- b) Ss: 0.163
- c) S1: 0.078
- d) Sds: 0.174
- e) Sd1: 0.125 f) SITE CLASS: D
- g) SEISMIC DESIGN CATEGORY: B
- h) RESPONSE MODIFICATION FACTOR R: 2
- i) SEISMIC RESPONSE COEFFICIENT Cs: 0.03
- j) BASIC SEISMIC FORCE RESISTING SYSTEM: ELEVATED TANK WITH UNSYMMETRICAL UNBRACED LEGS
- k) DESIGN BASE SHEAR: 5.0 KIPS
- I) ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
- H) FLOOD LOADS: NOT APPLICABLE
- I) DESIGN SOIL BEARING PRESSURE: 2000 PSF
- 4) THE DESIGN LOADING INFORMATION PROVIDED IS FOR INFORMATIONAL PURPOSES ONLY. ALL COMPONENTS, CLADDING, FINISHES, VENEERS, MECHANICAL UNITS, ARCHITECTURAL FEATURES, ETC. SHALL BE DESIGNED FOR ADEQUATE CONNECTIVE CAPABILITY UNDER CODE SPECIFIED LOADING. THESE MANUFACTURER'S SHALL BE RESPONSIBLE TO DETERMINE THE REQUIRED LOADING CONDITIONS FOR THEIR PRODUCT, INCLUDING ANY SUPERIMPOSED LOADS, DEAD LOADS, CONCENTRATED LOADS AND ANY LOADS SHOWN ON THE PLANS.
- 5) CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL DISCIPLINES, INCLUDING BUT NOT LIMITED TO GROUNDING WIRES, CONDUITS, PIPE AND DUCT PENETRATIONS, ELECTRICAL, MECHANICAL AND PLUMBING OPENINGS, EQUIPMENT LOADS, ETC. SEE ARCHITECTURAL, CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ITEMS NOW SHOWN ON THE STRUCTURAL DRAWINGS.
- 6) THE CONTRACTOR SHALL PROTECT ANY EXISTING FACILITIES, UTILITIES OR STRUCTURES FROM ALL DAMAGE.
- 7) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
- 8) CONTRACT DRAWINGS. DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, SHORING AND TEMPORARY BRACING.
- 9) DO NOT SCALE THE DRAWINGS.
- 10) THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER OR THE STRUCTURAL ENGINEER'S REPRESENTATIVE SHALL NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY.
- 11) CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY UNUSUAL AND OR EXCESSIVE LOADS DUE TO EQUIPMENT OR CONSTRUCTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OR ARCHITECT OF ANY LOADS FROM EQUIPMENT THAT ARE DIFFERENT FROM THE DESIGN LOADS SHOWN ON THESE PLANS.
- 12) THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONSTRUCT THIS PROJECT IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS AND REGULATIONS.
- 13) WORK NOT INDICATED AS PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT AT CORRESPONDING PLACES SHALL BE REPEATED.
- 14) IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS, THE MORE RIGID REQUIREMENT SHALL BE ASSUMED TO GOVERN UNTIL A RULING IS MADE BY THE ARCHITECT/ENGINEER.
- 15) THE CONTRACTOR SHALL REFER TO ELECTRICAL, MECHANICAL, ARCHITECTURAL AND OTHER DISCIPLINES' DRAWINGS FOR LOCATIONS OF ALL OPENINGS. CONTRACTOR IS RESPONSIBLE TO COORDINATE THESE DRAWINGS WITH THE DRAWINGS OF OTHER DISCIPLINES. THE STRUCTURAL ENGINEER AND ARCHITECT SHALL BE IMMEDIATELY NOTIFIED OF ANY OPENINGS FOUND BY THIS COORDINATION THAT ARE REQUIRED IN THE STRUCTURAL MEMBERS. NO CUTS OR MODIFICATIONS OF ANY MEMBERS SHALL BE MADE THAT ARE NOT APPROVED BY THE STRUCTURAL ENGINEER.
- 16) THE ENGINEER'S APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS. DEVIATION FROM THE CONTRACT DOCUMENTS SHALL BE SUBMITTED SEPARATELY FOR APPROVAL.

GENERAL NOTES (CONT):

- 17) THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS IN A TIMELY MANNER, ALLOWING THE ENGINEER AT LEAST TWO WEEKS TO REVIEW THE SHOP DRAWINGS THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS IN A DIGITAL PDF FORMAT ANY ITEMS NOT SPECIFICALLY DESIGNED OR DETAILED ON THESE DESIGN DRAWINGS SHALL BE SUBMITTED WITH CALCULATIONS TO THE STRUCTURAL ENGINEER FOR REVIEW.
- 18) PRIOR TO SUBMITTING ANY ITEMS FOR APPROVAL, INCLUDING SHOP DRAWINGS, THE CONTRACTOR SHALL REVIEW THE MATERIALS AND COORDINATE ALL TRADES. ALL COORDINATION REQUIREMENTS SHALL BE NOTED ON THE SUBMITTALS. NO SUBMITTALS OR OTHER ITEMS FOR REVIEW SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER OR ARCHITECT UNTIL THEY HAVE BEEN REVIEWED AND APPROVED BY THE CONTRACTOR.
- 19) SUBMITTALS SHALL NOT BE THE REPRODUCTION OF THE CONTRACT DOCUMENTS.
- 20) THE CONTRACTOR SHALL NOT PROCEED WITH FABRICATION WITHOUT APPROVED SHOP
- 21) THE CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, ANCHOR BOLTS, ETC. AS REQUIRED FOR ALL TRADES PRIOR TO CONSTRUCTION.
- 22) SEE MECHANICAL, PLUMBING, FIRE PROTECTION, HVAC, ELECTRICAL AND OTHER TRADES DRAWINGS FOR ADDITIONAL INFORMATION AFFECTING THE STRUCTURAL WORK,
 - A) HANGERS, SUSPENDED PIPING, SUSPENDED EQUIPMENT, SUSPENDED DUCT WORK. B) ELECTRICAL CONDUIT, ELECTRICAL BOXES
 - C) INSERTS, EMBEDMENTS AND OTHER SUPPORTED EQUIPMENT
 - D) SLAB ON GRADE OR FLOOR EQUIPMENT AND ANCHORS
 - E) UNDERGROUND DUCT, ELECTRICAL TRENCHES, PITS, MANHOLES, PIPING F) SEISMIC TIES FOR EQUIPMENT REQUIRING ADDITIONAL SEISMIC STABILITY
- 23) ONCE THE PROJECT IS COMPLETED, IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE THE APPROPRIATE MAINTENANCE TO PROTECT THE STRUCTURAL INTEGRITY OF THE STRUCTURE. AS PART OF THE CONTRACT, THE CONTRACTOR IS REQUIRED TO INFORM THE OWNER(S) OF THIS IN WRITING.
- 24) THE STRUCTURAL DESIGN OF THIS BUILDING TAKES INTO CONSIDERATION THE ANTICIPATED GRAVITY, LATERAL AND UPLIFT LOADS BASED ON SOUND ENGINEERING JUDGEMENT. THE ENGINEER OF RECORD RESERVES THE RIGHT TO VERIFY AND MODIFY THE STRUCTURE AS NEEDED AS A RESULT OF THESE LOADS IN THE SHOP DRAWING PROCESS.
- 25) THESE STRUCTURAL PLANS ARE BASED ON THE LATEST INFORMATION PROVIDED TO THE STRUCTURAL ENGINEER PRIOR TO THE DATE ON THESE DRAWINGS. IF THERE IS A CONFLICT BETWEEN THESE DRAWINGS AND ANY OTHER DISCIPLINE'S DRAWINGS OR A CHANGE HAS BEEN MADE TO THIS JOB AFTER THE DATE OF THESE DRAWINGS, THE CONTRACTOR SHALL CONTACT THE ARCHITECT AND THE STRUCTURAL ENGINEER TO INSURE THESE CHANGES ARE INCORPORATED INTO THE STRUCTURAL PLANS.

SHALLOW FOUNDATION NOTES:

- 1) FOUNDATION DESIGN IS BASED ON A SOIL BEARING CAPACITY OF 2000 PSF. CONTRACTOR IS RESPONSIBLE TO INSURE THIS CONDITION EXISTS.
- 2) PLACE CONCRETE IN FOOTINGS ON SAME DAYS AS FOOTINGS ARE EXCAVATED. IF THIS IS NOT POSSIBLE, CONTRACTOR SHALL PROTECT THE EXCAVATION FROM ANY DISTURBANCE UNTIL THE CONCRETE IS PLACED IN THE FOOTINGS. ANY TESTING OF THE SUBGRADE UNDER THE FOOTINGS SHALL BE MADE ON THE SAME DAY AS THE FOOTINGS ARE POURED.
- 3) THE CONTRACTOR SHALL OBTAIN A COPY OF THE SOILS REPORT BY TERRACON CONSULTANTS INC. THE CONTRACTOR SHALL BE RESPONSIBLE TO FOLLOW ALL RECOMMENDATIONS IN THIS REPORT.
- 4) UNLESS SPECIFIED OTHERWISE IN THE SOILS REPORT, ALL SUBSOILS UNDER FOOTINGS SHALL BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DENSITY AS MEASURED BY THE STANDARD PROCTOR METHOD (ASTM D-698) AT OPTIMUM MOISTURE CONTENT.
- 5) ALL COLUMNS AND WALLS SHALL BE CENTERED ON THEIR SUPPORTING FOOTING, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE STRUCTURAL
- 6) ALL REINFORCING IN FOOTINGS SHALL BE EQUALLY SPACED UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE STRUCTURAL PLANS.
- 7) ALL REINFORCING STEEL SHALL BE SUPPORTED BY WIRE CHAIRS AND ADDITIONAL STEEL RODS AS NEEDED. DO NOT SUPPORT REINFORCING STEEL ON BRICKS, BLOCKS OR OTHER SOLID ITEMS.
- 8) SIMPSON SET-XP EPOXY SHALL BE USED TO INSTALL ALL POST-INSTALLED THREADED RODS IN CONCRETE.
- 9) HOLE DIAMETER, DEPTH, CLEANING AND INSTALLATION OF EPOXY SHALL BE IN ACCORDANCE WITH SIMPSON SPECIFICATIONS FOR THE SPECIFIC EPOXY
- 10) THE ANCHOR ROD MAY BE ADJUSTED DURING THE SPECIFIED GEL TIME, ACCORDING TO SIMPSON. DO NOT ADJUST OR DISRUPT THE THREADED ROD AFTER THIS GEL TIME HAS PASSED.
- 11) DO NOT INSTALL THE EPOXY IN THE CONCRETE WHEN ENVIRONMENTAL CONDITIONS SPECIFIED BY SIMPSON FOR THE EPOXY CANNOT BE MET.
- 12) PROVIDE ADEQUATE EXPOSED THREADING OF THE ANCHOR ROD TO PROVIDE FULL NUT ENGAGEMENT, FLUSH WITH THE OUTSIDE FACE. CARE SHOULD BE TAKEN TO INSURE THAT LENGTHS FOR ADDITIONAL PLATE WASHERS FOR OVERSIZED HOLES, SLOTTED HOLES FOR LATERAL LOADING PLATE WASHERS ARE TAKEN INTO ACCOUNT.

CONCRETE NOTES:

- 1) ALL CONCRETE SHALL CONFORM TO ACI 301.
- 2) ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE ACI CODE.
- 3) ALL CONCRETE SHALL HAVE THE FOLLOWING STRENGTHS: A) SLABS AND FOOTINGS: 4000 PSI
- 4) SUBMIT MIX DESIGN TO ENGINEER FOR APPROVAL.
- 5) THE CONCRETE SLUMP SHALL FALL WITHIN THE FOLLOWING RANGES: A) FOOTINGS AND SLABS: 4 TO 6 INCHES
- 6) THE CONCRETE AIR ENTRAINMENT SHALL FALL WITHIN THE FOLLOWING RANGES: A) FOOTINGS AND SLABS: 5 TO 7%
- 7) FLYASH MAY BE USED IN THE CONCRETE MIX. FLYASH SHALL ONLY BE USED AS A 2 TO 1 REPLACEMENT OF CEMENT (2 FLYASH PER 1 POUND CEMENT) UP TO 120 POUNDS OF FLYASH MAXIMUM.
- 8) ALL CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60.
- 9) REBAR SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH ACI DETAILING MANUAL LATEST EDITION.
- 10) MINIMUM LAP ON ALL REBAR SHALL BE 50 BAR DIAMETERS. UNLESS NOTED OTHERWISE.
- 11) ALL REINFORCING BARS SHOWN TO BE HOOKED SHALL HAVE A STANDARD HOOK PER CRSI AND ACI STANDARDS. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE STRUCTURAL PLANS.
- 12) CORNER BARS ARE REQUIRED AT ALL CORNERS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE STRUCTURAL PLANS.
- 13) REINFORCEMENT SHALL BE HELD IN PLACE DURING CONCRETE PLACEMENT. IF REQUIRED, ADDITIONAL BARS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.
- 14) SUBMIT REBAR SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- 15) NO CALCIUM CHLORIDE SHALL BE USED IN THE CONCRETE MIX.
- 16) THE CONTRACTOR SHALL TAKE THE PRECAUTIONS SPECIFIED BY ACI WHEN PLACING CONCRETE IN HOT OR COLD WEATHER CONDITIONS.
- 17) NO WATER SHALL BE ADDED TO THE CONCRETE AT THE SITE OR IN ROUTE TO THE
- 18) PROVIDE REBAR SUPPORTS AND TIES IN THE CONCRETE PER ACI AND CRSI SPECIFICATIONS.
- 19) REINFORCING SHALL BE INSTALLED IN THE CONCRETE IN ACCORDANCE WITH THE FOLLOWING COVER REQUIREMENTS
 - A) CONCRETE POURED AGAINST THE GROUND: 3"
- B) CONCRETE EXPOSED TO THE GROUND OR WEATHER: 2" C) CONCRETE NOT EXPOSED TO THE WEATHER OR IN CONTACT WITH THE GROUND: 1) #3 - #11 BARS: 3/4"
- 2) LARGER THAN #11 BARS: 1 1/2" D) CONCRETE IN BEAMS OR COLUMNS: 1 1/2"
- 20) A QUALIFIED TESTING LABORATORY SHALL BE RETAINED BY THE GENERAL CONTRACTOR TO COLLECT CYLINDER AND PERFORM THE NECESSARY CONCRETE TESTS. A MINIMUM OF FOUR CYLINDERS SHALL BE TAKEN FOR EVERY 50 CUBIC YARDS OR PORTION THEREOF OF EACH DAY'S POUR. ONE CYLINDER SHALL BE TESTED AT 7 DAYS, 2 CYLINDERS SHALL BE TESTED AT 28 DAYS AND THE REMAINING CYLINDER SHALL BE HELD IN RESERVE IF NEEDED. ONE COPY OF THE TEST REPORTS SHALL BE SENT TO THE ARCHITECT AND STRUCTURAL ENGINEER. NO ADDITIONAL ELEMENTS SHALL BE ADDED TO THE CONCRETE AFTER THE CONCRETE FOR THE CYLINDERS IS TAKEN.
- 21) IN ADDITION TO THE CONCRETE CYLINDERS THE TESTING LABORATORY SHALL PERFORM THE FOLLOWING TEST EACH TIME CONCRETE CYLINDERS ARE TAKEN:
 - A) STANDARD SLUMP TEST B) AIR ENTRAINMENT TEST
 - C) TEMPERATURE
- 22) THE CONTRACTOR SHALL REPAIR AND PATCH DEFECTIVE AREAS IMMEDIATELY AFTER REMOVAL OF FORMS.
- 23) ALL PLUMBING SLOTS SHALL BE FILLED WITH CONCRETE TO THE SAME DEPTH AS THE FLOOR SLAB AFTER PIPING IS INSTALLED.
- 24) REBAR DOWELS SHALL MATCH VERTICAL REINFORCING, ALL SLAB DOWELS SHALL BE STRAIGHT, SMOOTH AND FREE OF BURRS AT THE ENDS. DOWELS SHALL BE PROPERLY SUPPORTED DURING CONSTRUCTION AND PROPERLY ALIGNED TO KEEP DOWELS PARALLEL TO THE DIRECTION OF EXPECTED MOTION.
- 25) THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN OF ALL TEMPORARY FRAMEWORK. FORMWORK AND SHORING.

- SHOP DRAWING SUBMITTALS:
- 1) REVIEW BY HUSSEY GAY BELL, INC (HGB) OF SUBMITTALS IS FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE.
- 2) THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL SUBMITTALS COMPLY WITH THE LATEST PROJECT PLANS, SPECIFICATIONS, GOVERNING CODES AND REGULATIONS AND IS SOLELY RESPONSIBLE FOR CONFIRMING ALL QUANTITIES, DIMENSIONS, FABRICATION TECHNIQUES AND COORDINATING WITH ALL TRADES.
- 3) A SHOP DRAWING SUBMITTAL SCHEDULE SHALL BE SUBMITTED A MINIMUM OF 4 WEEKS PRIOR TO THE FIRST SHOP DRAWING SUBMITTAL
- 4) SHOP DRAWINGS ARE TO BE SUBMITTED IN A TIMELY MANNER ALLOWING ADEQUATE TIME FOR PROCESSING. THE ARCHITECT AND ENGINEER WILL REVIEW AND RETURN THE SHOP DRAWINGS WITHIN 14 CALENDAR DAYS OF RECEIVING THE SUBMITTAL.
- 5) SHOP DRAWINGS MUST BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTING TO HGB. SHOP DRAWINGS THAT HAVE NOT BEEN REVIEWED BY THE CONTRACTOR OR SHOW CLEAR EVIDENCE OF NOT HAVING BEEN REVIEWED, WILL BE RETURNED TO THE CONTRACTOR WITHOUT REVIEW OR APPROVAL.
- 6) SHOP DRAWINGS FOR SPECIFIC COMPONENTS, SUCH AS COLUMNS, FOOTINGS ETC., SHALL BE SUBMITTED IN THEIR ENTIRETY. SHOP DRAWINGS FOR SIMILAR LAYOUTS, SUCH A FLOOR FRAMING, SHALL BE SUBMITTED TOGETHER
- 7) ALL SHOP DRAWINGS SHALL BE SUBMITTED WITH A LETTER OF TRANSMITTAL. DO NOT COMBINE DIFFERENT SUBMITTALS ON THE SAME LETTER OF TRANSMITTAL.
- 8) ALL SHOP DRAWINGS SHALL BE SUBMITTED IN A DIGITAL PDF FORMAT.
- 9) ALL CHANGES AND ADDITIONS ON SHOP DRAWING RE-SUBMITTALS SHALL BE CLEARLY CLOUDED AND NOTED. SHOP DRAWING RE-SUBMITTALS THAT ARE NOT CLEARLY CLOUDED AND NOTED AS REQUIRED WILL BE RETURNED UNREVIEWED AND
- 10) SHOP DRAWINGS THAT REQUIRE ENGINEERING DESIGN AND SUBMITTAL OF CALCULATIONS AND DRAWINGS SIGNED AND SEALED BY AN ENGINEER SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS FOR THE INDIVIDUAL COMPONENT THAT IS APPLICABLE AND THE ADDITIONAL REQUIREMENTS OF THE "SHOP DRAWINGS REQUIRING SPECIALTY ENGINEERING" SECTION OF THESE SPECIFICATIONS.
- 11) SHOP DRAWINGS THAT DO NOT MEET ALL OF THE ABOVE REQUIREMENTS WILL NOT BE REVIEWED BUT WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.
- 12) ALL SUBMITTAL SHALL HAVE HGB-STRUCTURAL DEPARTMENT DOCUMENT REVIEW STAMP AS SHOWN BELOW.
- 13) REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES. DETAILS. AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION.

HUSSEY GAY BELL - Established 1958 -

DOCUMENT REVIEW These documents have been reviewed only for general conformance with the design concept of the project and general compliance with the Contract Documents. Modifications or comments made on these documents do not relieve the Contractor from compliance with the requirements of the Contract Documents. Approval of a specific item does not include approval of the assembly of which the item is a component. The Contractor is responsible for information that pertains solely to fabrication processes; confirming and orrelating dimensions at the jobsite; the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and performing all work in a safe and satisfactory mann NO EXCEPTIONS TAKEN MAKE CORRECTIONS NOTED AMEND & RESUBMIT REJECTED/RESUBMIT DOCUMENT NOT REVIEWED

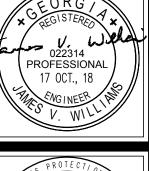
STAMP WILL BE DATED, INITIALED AND MARKED ONE OF THE FOLLOWING:

- a. "NO EXCEPTIONS TAKEN" MEANS NO EXCEPTIONS WERE FOUND ON THE SHOP DRAWINGS AND MAY BE USED FOR FABRICATION AND ERECTION.
- b. "MAKE CORRECTIONS NOTED" MEANS THE EXCEPTIONS WERE FEW OR SMALL, FABRICATION AND ERECTION MAY START AS SOON AS THE DRAWINGS ARE REVISED. ALSO, A RECORD COPY OF THE REVISIONS SHALL BE SENT TO THE "ENGINEER OF RFCORD".
- c. "AMEND & RESUBMIT" MEANS THAT THE CORRECTIONS WERE MANY OR LARGE. REVISE THE SHOP DRAWINGS AND RESUBMIT THEM. FABRICATION AND/OR ERECTION MAY NOT START TILL THE DRAWINGS HAVE BEEN REVIEWED AND STAMPED "NO

TAKEN" OR "MAKE CORRECTIONS NOTED & SUBMIT RECORD COPY".

- d. "REJECTED/RESUBMIT" MEANS THAT THE SHOP DRAWING HAS TOO MANY CORRECTIONS OR DOES NOT COMPLY WITH GENERAL DESIGN CONCEPTS. ALSO, IF SHOP DRAWINGS HAVE NOT BEEN CHECKED BY THE DETAILER/ FABRICATOR AND REVIEWED BY CONTRACTOR, DRAWINGS WILL BE REJECTED. DRAWINGS REQUIRING A PROFESSIONAL ENGINEERING SEAL, THAT ARE NOT SEALED, WILL BE REJECTED.
- e. "DOCUMENT NOT REVIEWED" MEANS THAT THE SUBMITTAL DOCUMENT WAS NOT REVIEWED BY HGB STRUCTURAL DEPARTMENT





M

DESIGNED DRAWN
JVW DEM DATE: OCTOBER 2018

JOB NO. 118291604 SCALE: AS SHOWN

S

STORAGE VESSEL FOUNDATION PLAN

1/2"=1'-0"

THE FOUNDATION DESIGN IS BASED ON REQUIREMENTS OF THE CURRENTLY ENFORCED BUILDING CODES. IT IS THE RESPONSIBILITY OF THE TANK SUPPLIER TO ENSURE THE TANK, TANK FRAMING AND CONNECTIONS TO THE FOUNDATION MEET THE CURRENT BUILDING CODE REQUIREMENTS.

THE TANK FOUNDATION IS BASED ON THE FOLLOWING INFORMATION
THAT WAS SUPPLIED BY THE TANK SUPPLIER. IF THE TANK INSTALLED
DOES NOT MATCH THIS INFORMATION, NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY.

TANK: VXT-13,000 CAPACITY: APPROXIMATELY 13,000 GALLON HEIGHT: 38'-3" FROM BASE TO TOP OF TANK DIAMETER: 9'-10" OUTSIDE DIAMETER MATERIAL: LIQUID OXYGEN C.G. FULL TANK: 20'-0" ABOVE BASE TANK WEIGHT: 40,992 LBS OPERATING WEIGHT WITH LIQUID OXYGEN: 161,500 LBS



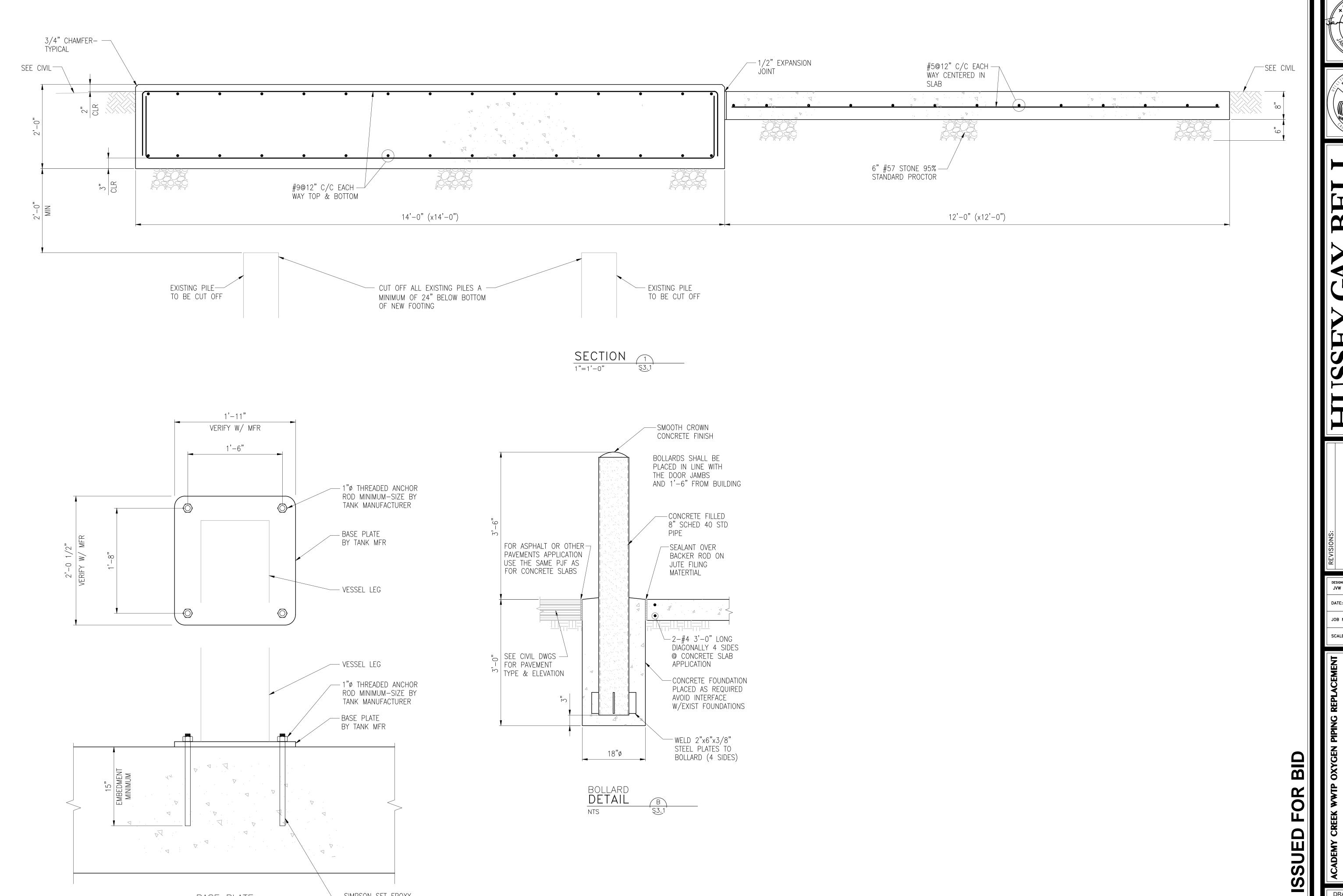
DESIGNED DRAWN CHECKED

JVW DEM JVW DATE: OCTOBER 2018

JOB NO. 118291604 SCALE: AS SHOWN

DRAWING NUMBER

ISSUE

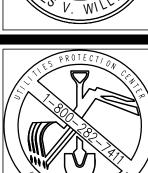


SIMPSON SET EPOXY
OR EQUIVALENT

BASE PLATE
DETAIL

NTS

\$3.1



DESIGNED DRAWN CHECKED

JVW DEM JVW DATE: OCTOBER 2018 JOB NO. 118291604

SCALE: AS SHOWN

DRAWING NUMBER

S3.1

GENERAL NOTES: (APPLICABLE TO ALL DRAWINGS)

- G1. REFER TO CIVIL PLANS FOR EXACT LOCATION OF EQUIPMENT.
- G2. WHEN CONDUCTOR SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.
- G3. ARROWHEAD OF PANELBOARD DESIGNATION ON DRAWINGS INDICATES FACE OF PANELBOARD.
- G4. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED FOR ALL BRANCH AND FEEDER CIRCUITS.
- G5. PROVIDE A NYLON PULL CORD IN ALL EMPTY CONDUIT 3/4" IN DIAMETER. PROVIDE A GALVANIZED PULL WIRE IN ALL EMPTY CONDUITS 1" AND LARGER. DEADEND RUNS SHALL BE TERMINATED WITH INSULATED BUSHINGS AND SHALL BE CAPPED. ADDITIONALLY, DEADENDS SHALL BE LABELLED TO INDICATE SYSTEM AND LOCATION OF OPPOSITE END. LABEL CONDUITS WITH THOMAS & BETTS NYLON TYPE I.D. TIES AND BLACK MARKER PEN SPECIFICALLY INTENDED FOR SUCH USE.
- G6. HOLD CONCEALED CONDUITS AS TIGHT TO THE STRUCTURE AS POSSIBLE AND ABOVE PIPING. ALL CONDUITS SHALL BE RUN PARALLEL OR PERPENDICULAR TO THE BUILDING STRUCTURE. WHERE LB OR SIMILAR FITTINGS ARE USED FOR PULL POINTS, SUCH FITTINGS SHALL BE READILY ACCESSIBLE AND SHALL NOT CONTAIN SPLICES AND SHALL BE SIZED PER NEC, COORDINATE THE LOCATIONS OF THESE FITTINGS WITH OTHER TRADES SO THEY ARE NOT COVERED BY PIPING.
- G7. CONCUITS ENTERING SURFACE MOUNTED PANELS SHALL BE GROUPED AND SECURED TO LIGHTWEIGHT CHANNEL WITH INDIVIDUAL CLAMPS.
- G8. CIRCUITS WITH GFCI RECEPTACLES SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.
- G9. SERIES A.I.C. RATING CIRCUIT BREAKER COMBINATIONS ARE NOT ACCEPTABLE.
- G10. REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS REQUIRING ELECTRICAL SERVICE, PROVIDE FINAL CONNECTIONS TO EQUIPMENT.
- G11. ALL WEATHERPROOF RECEPTACLES SHALL BE RATED "WEATHER RESISTANT" (WR) TYPE AND SHALL HAVE A EXTRA DUTY COVER THAT MAINTAINS THE WEATHERPROOF INTEGRITY OF THE OUTLET WITH THE ATTACHMENT PLUG CAP INSERTED OR REMOVED, COVERS SHALL BE SELF CLOSING AND SHALL HAVE A LOCKING TAB.
- G12. SEAL ALL CONDUITS ENTERING EXTERIOR MOUNTED ELECTRICAL EQUIPMENT WITH DUCT SEAL.
- G13. INSTALL ALL RECEPTACLES WITH GROUND ON TOP.
- G14. INSTALLATION OF EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES FOR SPACE REQUIREMENTS AND CONNECTION ARRANGEMENTS. EQUIPMENT SHALL BE INSTALLED TO MAINTAIN CLEARANCES AS RECOMMENDED BY MANUFACTURER OF EQUIPMENT OR CODES AND SHALL BE INSTALLED TO MAINTAINED ACCESS TO ALL SERVICEABLE PARTS.

DEMOLITION NOTES: (GENERAL)

CONTRACT.

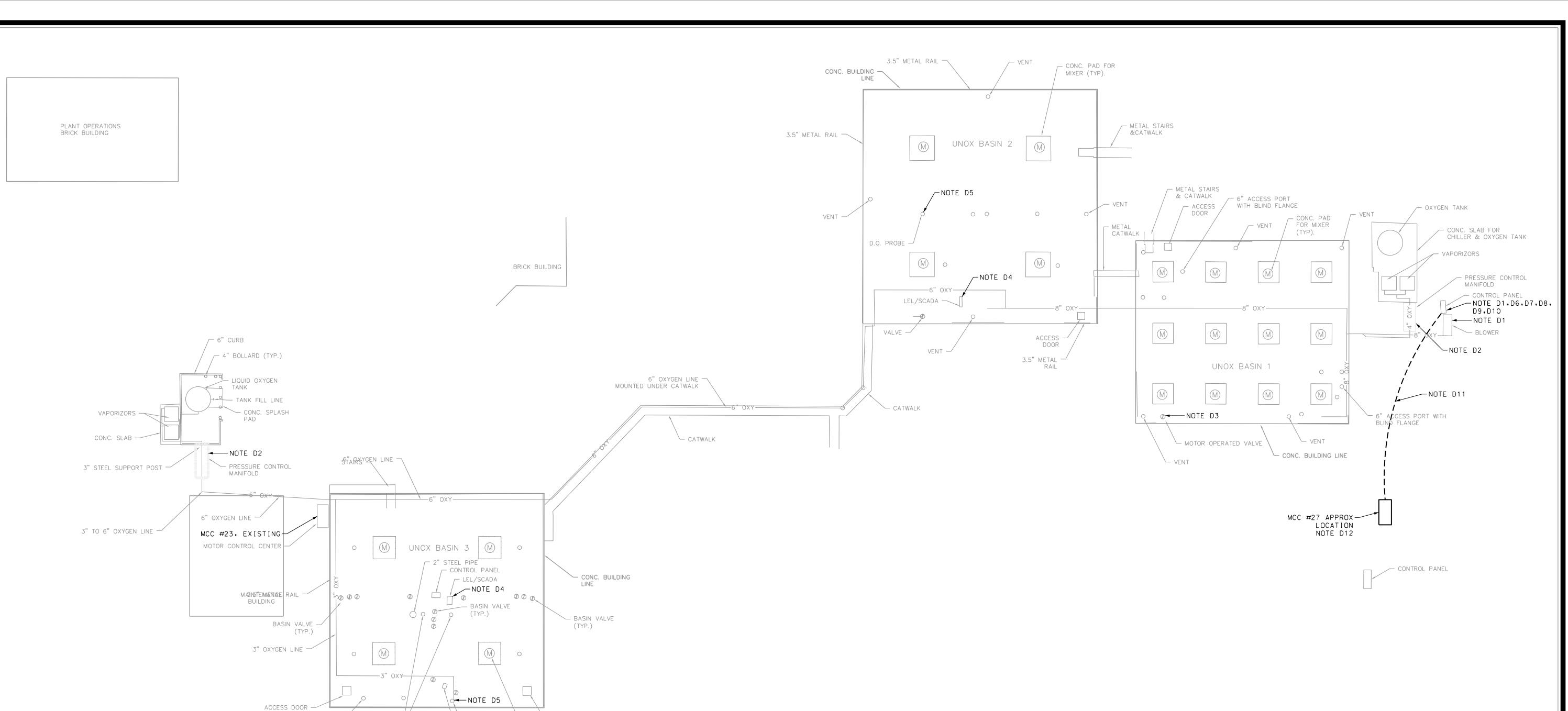
- D1. VISIT SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. BID SHALL INCLUDE ALL REQUIRED DEMOLITION AND/OR RELOCATION OF EQUIPMENT IN RENOVATED AREAS, WHETHER SUCH WORK IS OR IS NOT INDICATED ON THE DRAWINGS.
- D2. RELOCATED EQUIPMENT AND EXISTING EQUIPMENT TO REMAIN AFTER DEMOLITION SHALL MEET THE REQUIREMENTS OF NEW CONSTRUCTION
- D3. DEMOLITION REQUIRES FIELD IDENTIFICATION OF PANELBOARDS, SWITCHES, ALL DEVICES, ETC., BRANCH CIRCUITS AND THEN THE REMOVAL OF ALL SUCH CIRCUITS AND ASSOCIATED EQUIPMENT NOT REUSED. CONTRACTOR SHALL FIELD TRACE EACH BRANCH CIRCUIT TO REMAIN AND TO BE DEMOLITIONED WITH CIRCUIT TRACER. REMOVE ALL BRANCH CIRCUITS NOT REUSED BACK TO POINT OF ORIGINATION.
- D4. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS, FEEDERS, BRANCH CIRCUITS, ETC. PASSING THROUGH RENOVATED AREAS SERVING UNDISTURBED AREAS.
- D5. EXISTING ELECTRICAL WORK REMAINING IN RENOVATED AREAS, AND INTERRUPTED BY NEW WORK, SHALL BE RESTORED TO ORIGINAL CONDITION. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.
- D6. EXISTING COMMUNICATION SIGNALING SYSTEMS OUTSIDE RENOVATED AREA SHALL NOT BE AFFECTED BY WORK PERFORMED UNDER THIS
- D7. MAINTAIN BRANCH CIRCUITS OUTSIDE RENOVATED AREA.











DEMOLITION PLAN - ELECTRICAL SCALE: 1" = 20' - 0"

HOODED PIPE -

6" ACCESS PORT WITH -

BLIND FLANGE

DISCONNECT SWITCH.

RETAINED FOR REUSE.

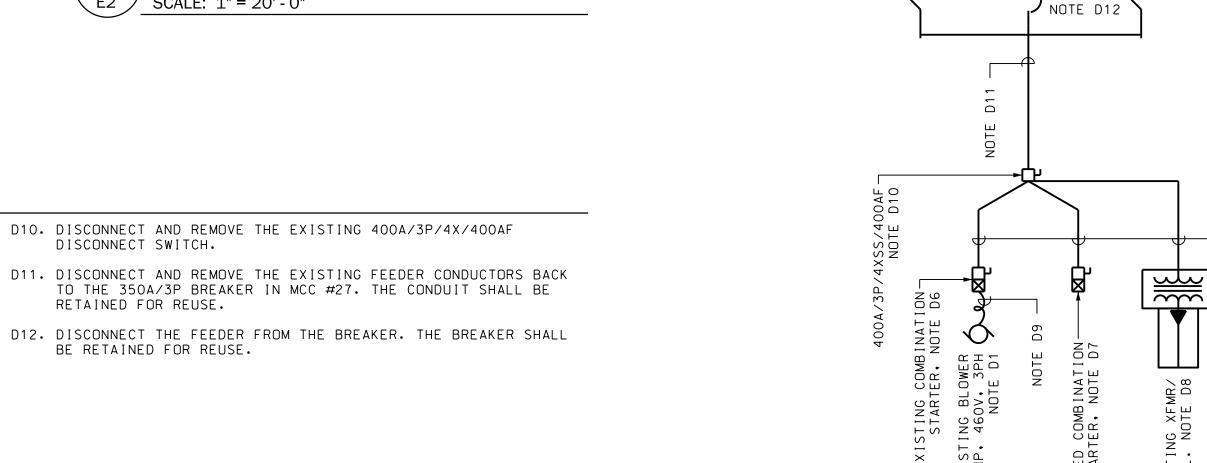
BE RETAINED FOR REUSE.

5 HP BLOWER

└ 2'X1.5' UNK. BOX

NOTES:

- D1. DISCONNECT THE EXISTING 100HP BLOWER. DISCONNECT AND REMOVE D10. DISCONNECT AND REMOVE THE EXISTING 400A/3P/4X/400AF EXISTING FUNR STARTER AND ENCLOSURE. RETAIN THE FEEDER CIRCUIT BACK TO THE SOURCE BREAKER IN MCC #22.
- D2. DISCONNECT EXISTING POWER AND COMMUNICATIONS CONDUITS AND CONDUCTORS FROM THE EXISTING PRESSURE CONTROL MANIFOLD. DEMOLISH ALL FOR REUSE.
- D3. DISCONNECT THE EXISTING MOTOR OPERATED VALVE. RETAIN THE EXISTING POWER AND CONTROL CONDUITS AND CONDUCTORS FOR REUSE.
- D4. DISCONNECT AND REMOVE THE EXISTING OXYGEN LEVEL CONTROL PANEL. RETAIN THE EXISTING BRANCH POWER CIRCUIT FOR REUSE.
- D5. DISCONNECT THE EXISTING 5HP BLOWER. RETAIN BRANCH FEEDER CONDUIT AND WIRE FOR REUSE.
- D6. DISCONNECT AND REMOVE THE EXISTING COMBINATION STARTER FOR THE 100HP BLOWER.
- D7. DISCONNECT AND REMOVE THE EXISTING/ABANDONED COMBINATION STARTER.
- D8. DISCONNECT AND REMOVE THE EXISTING TRANSFORMER/PANEL.
- D9. DEMOLISH THE EXISTING CONDUIT AND WIRE.



─ ACCESS DOOR

- MIXER (TYP)

DEMOLITION PLAN - ELECTRICAL E2 / N.T.S.

MCC #27

350A/3P



DATE: OCTOBER 2018 JOB NO. 118291604 SCALE: AS SHOWN

