

BULLETIN NO. 17

TO THE

PLANS AND SPECIFICATIONS

FOR

JEFFERSON LAB

TECHNICAL ENGINEERING & DEVELOPMENT FACILITY
(TEDF ONE)

Newport News, Virginia

EwingCole
Architects.Engineers.Interior Designers.Planners
Federal Reserve Bank Building
100 N. 6th Street
Independence Mall West
Philadelphia, Pennsylvania 19106
215-923-2020

Bulletin No.17
Project No. 20080400
September 22, 2010

The following changes shall become part of the Contract and shall supersede anything called for previously in the Specifications or shown on the Contract Drawings with which they may be at variance. This Addendum shall be a part of an attachment to the Specifications.

TEDF ONE

I. **DRAWING CHANGES**

Drawing No. S2.1.1.A

1. Revised Acid Neutralization Tank pad layout to reflect revised equipment locations.

Drawing No. TLR-P2.0.A1

1. The Industrial Waste (IW) piping is to be a 6" single-walled pipe. Added note for piping that is to be double contained.

Drawing No. TLR-P2.0.A2

1. Revised AWN layout to reflect new pad locations. Added double-contained piping symbols to piping in the Acid Waste Neutralization (AWN) area. Added note for piping that is to be double contained. Elevated the capped acid waste line for future tank (2 ft. from the ground).

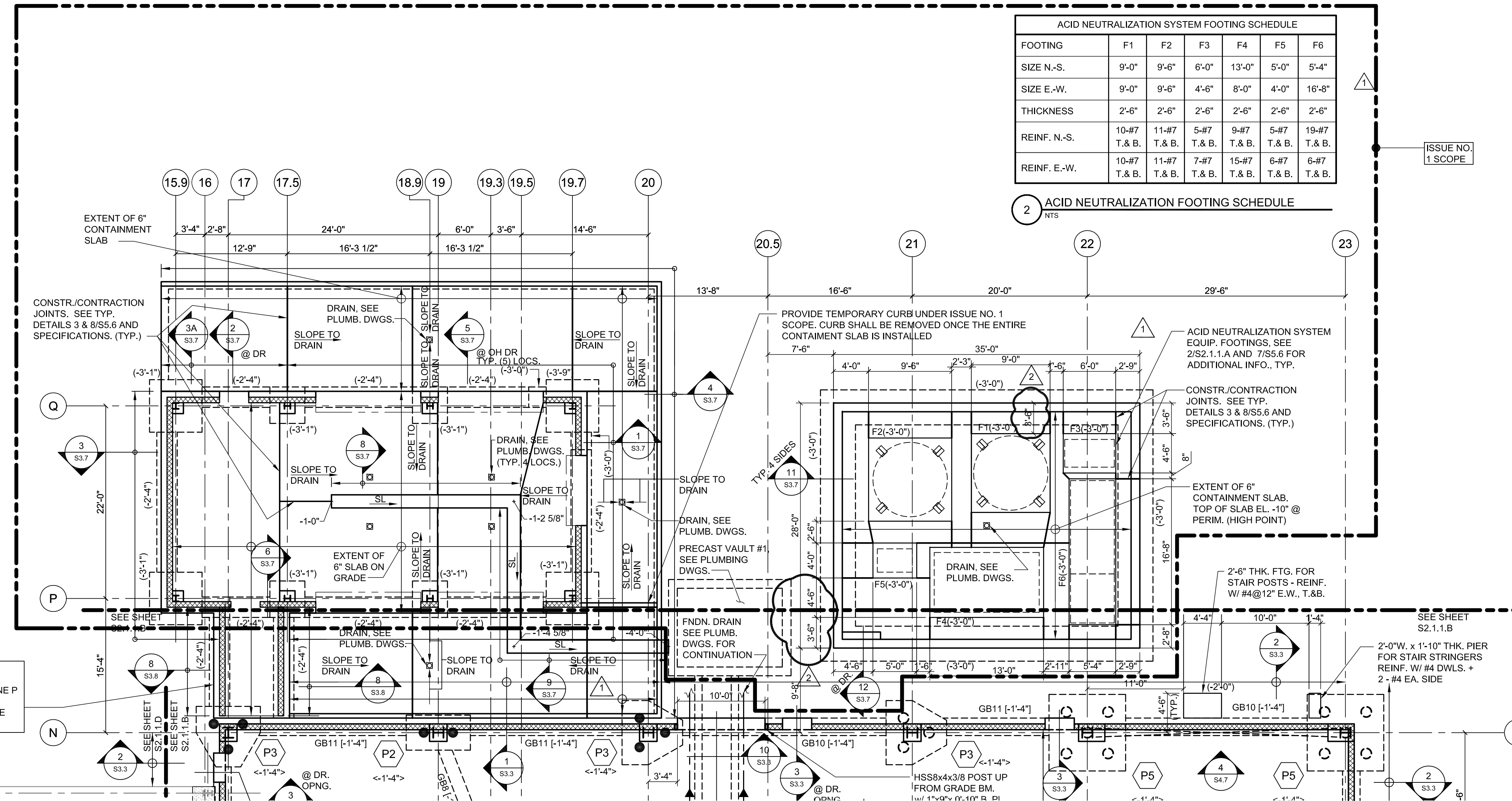
Drawing No. TLR-P2.2.A

1. Revised piping layout to graphically show one pump discharge for each chemical delivery station.

END OF BULLETIN NO. 17

ACID NEUTRALIZATION SYSTEM FOOTING SCHEDULE						
FOOTING	F1	F2	F3	F4	F5	F6
SIZE N.-S.	9'-0"	9'-6"	6'-0"	13'-0"	5'-0"	5'-4"
SIZE E.-W.	9'-0"	9'-6"	4'-6"	8'-0"	4'-0"	16'-8"
THICKNESS	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"
REINF. N.-S.	10-#7 T.&B.	11-#7 T.&B.	5-#7 T.&B.	9-#7 T.&B.	5-#7 T.&B.	19-#7 T.&B.
REINF. E.-W.	10-#7 T.&B.	11-#7 T.&B.	7-#7 T.&B.	15-#7 T.&B.	6-#7 T.&B.	6-#7 T.&B.

2 ACID NEUTRALIZATION FOOTING SCHEDULE
NTS

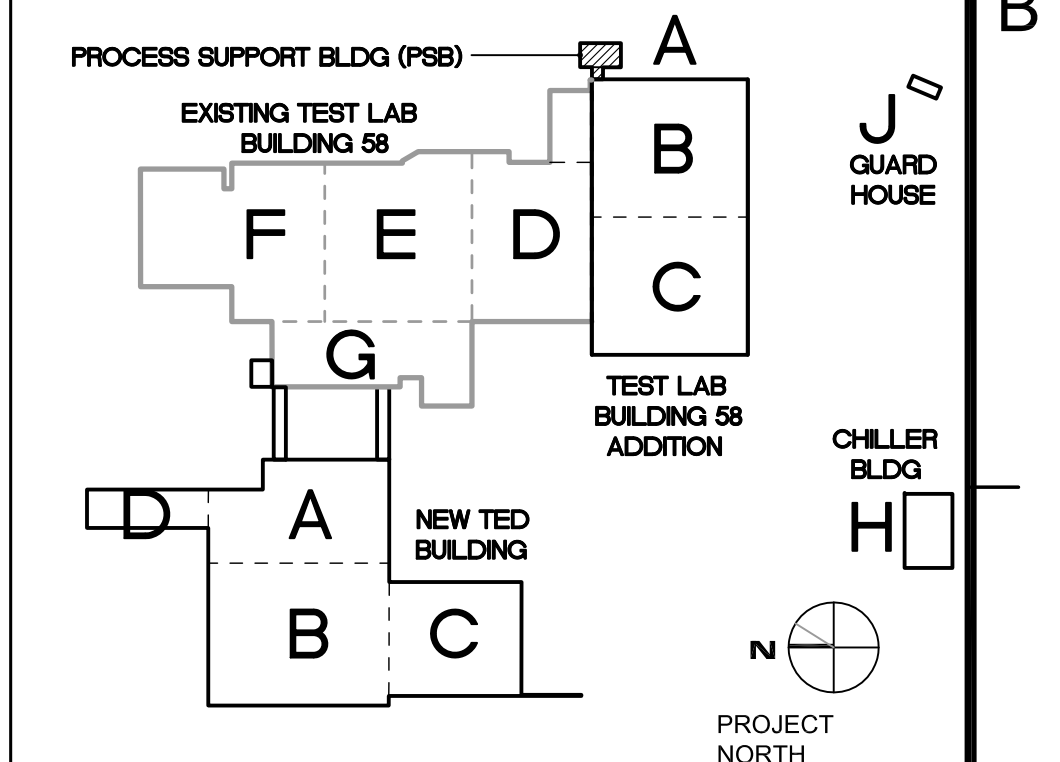


1 PSB FOUNDATION & FIRST FLOOR PLAN - SEGMENT A
1/8" = 1'-0"

(UNLESS NOTED OTHERWISE)

- TOP OF FLOOR SLAB ELEVATION 0'-0". ACTUAL ELEVATION 40'-0". NEW SLAB TO MATCH EXISTING SLAB ELEVATION OF THE EXISTING TEST LAB BUILDING. SEE ARCH. DWGS. FOR SLAB SLOPES AND SPOT ELEVATIONS NOT SHOWN.
- PROVIDE A 6 INCH NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH #4 @ 6" O.C., E.W. (TYP.)
- EXTERIOR CONTAINMENT CONCRETE SLABS SHOWN ON PLAN TO BE A 6 INCH CONCRETE SLABS ON GRADE REINFORCED WITH #4 @ 6" O.C., E.W.. ALL CONCRETE IN THIS AREA TO BE COATED WITH A POLYMER/VINYL ESTER LINING. SEE SPECIFICATION SECTION 096880.
- BOTTOM OF FOOTING ELEVATION INDICATE THIS (...) IN PLAN.
- SEE DRAWING SG.5 FOR ADDITIONAL NOTES AND DRAWING SS.6 FOR TYPICAL DETAILS.
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NOTE:
CONNECTOR CONSTRUCTION (EXTENT OF SECTION 7/S3.7) AND CONTAINMENT SLAB WEST OF COLUMN LINE P SHALL BE CONSTRUCTED AFTER THE TEST LAB ADDITION IS BUILT. EXCLUDE THIS WORK FROM ISSUE NO. 1 SCOPE.



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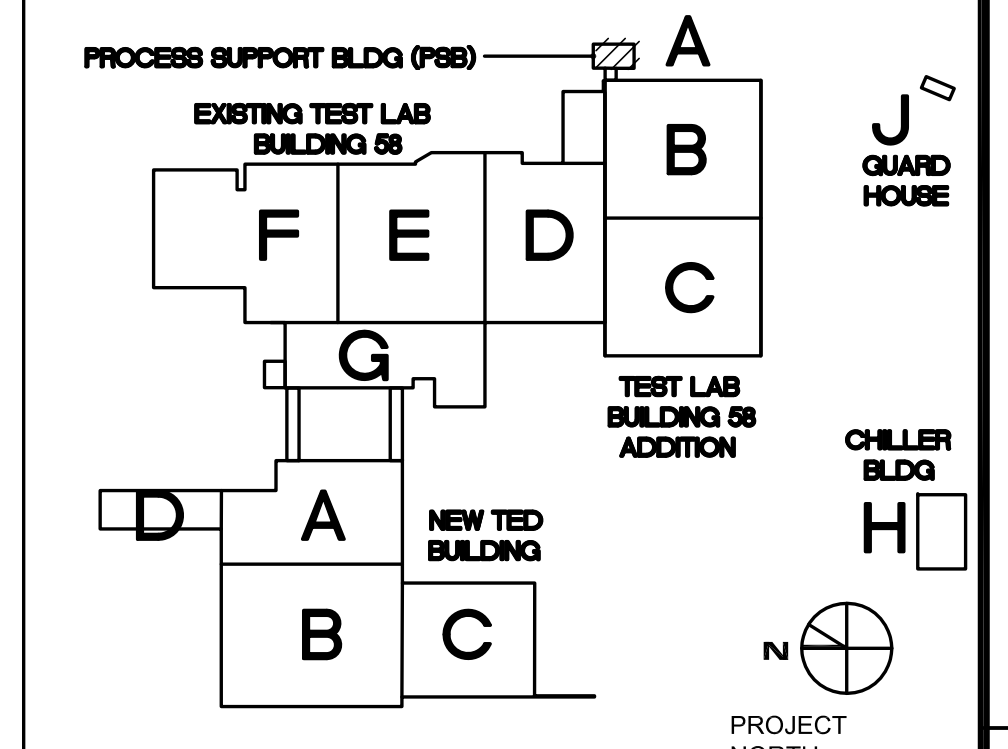
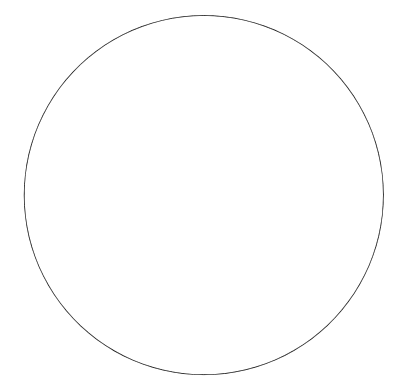
REV	ZONE	DESCRIPTION	APPR.	DATE
2		BULLETIN NO. 17		09/22/10
1		BULLETIN NO. 14		08/22/10
		BULLETIN NO. 4 - STRUCTURAL STEEL ONLY		05/07/10
		ISSUE NO. 1 / EPP		02/08/10

FACILITY USERS		FACILITIES & LOGISTICS	
APPROVED	DATE	DESIGNER	DATE
APPROVED	--	DRAWN	--
APPROVED	--	CHECKED	--
APPROVED	--	APPROVED	--



TITLE:
PSB FOUNDATION & FRAMING PLAN
- SEGMENT A

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	100011-17-S2-STE	S2.1.1.A	--



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REV	ZONE	DESCRIPTION	APPR.	DATE
6		BULLETIN #17		09/22/10
5		BULLETIN #14		08/24/10
4		BULLETIN #15		08/10/10
3		BULLETIN #8		07/09/10
2		BULLETIN #5		05/24/10
1		ADDENDUM #4		03/05/10
		ISSUE NO. 1 / EPP		02/08/10

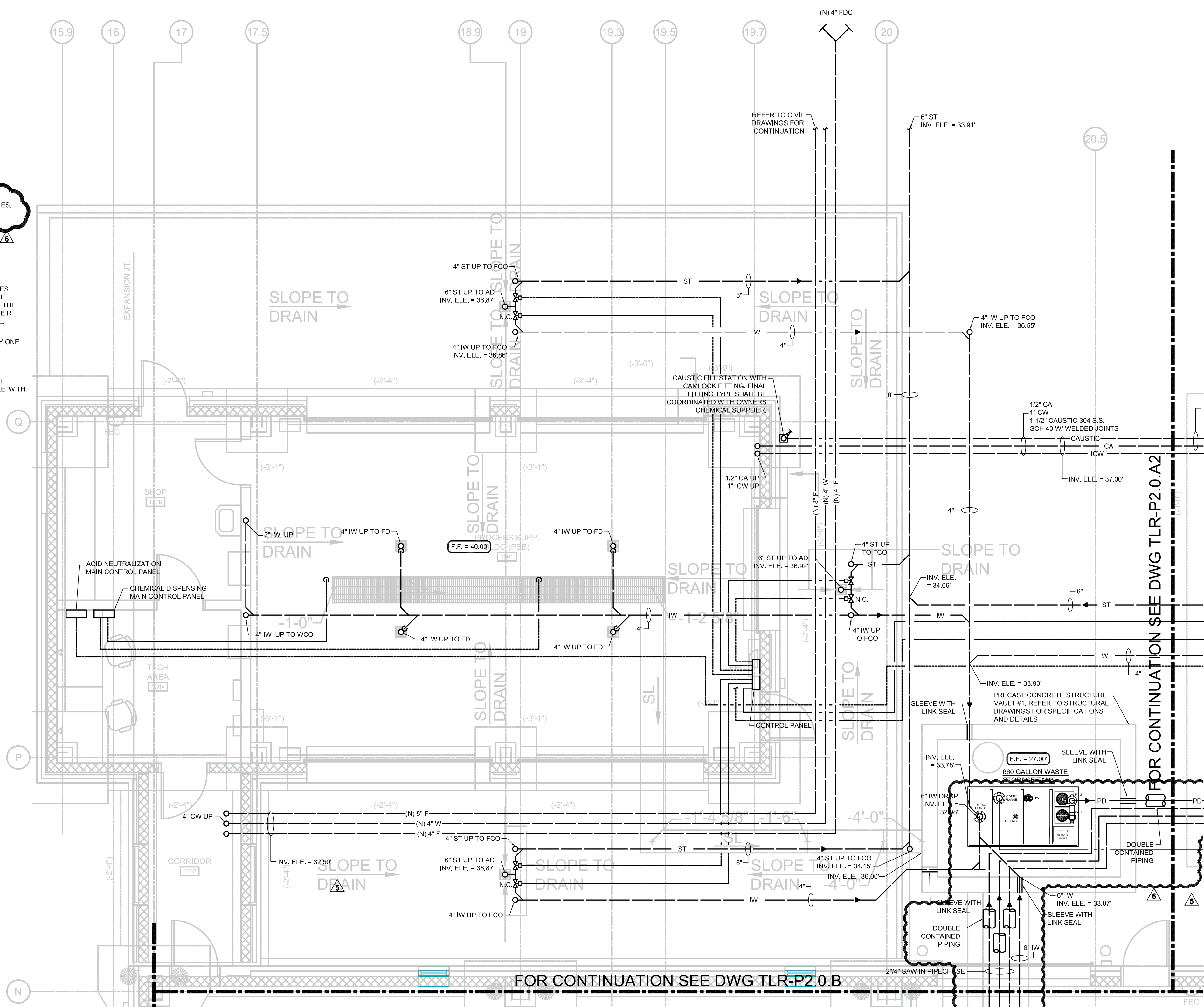
FACILITY USERS		FACILITIES & LOGISTICS	
APPROVED	DATE	DESIGNER	DATE
APPROVED		JLC	6.19.09
APPROVED		DRAWN	JLC
APPROVED		CHECKED	FA
APPROVED		APPROVED	6.19.09



TITLE: UNDERGROUND - NEW WORK - WASTE, VENT, & STORM PIPING - SEGMENT A1

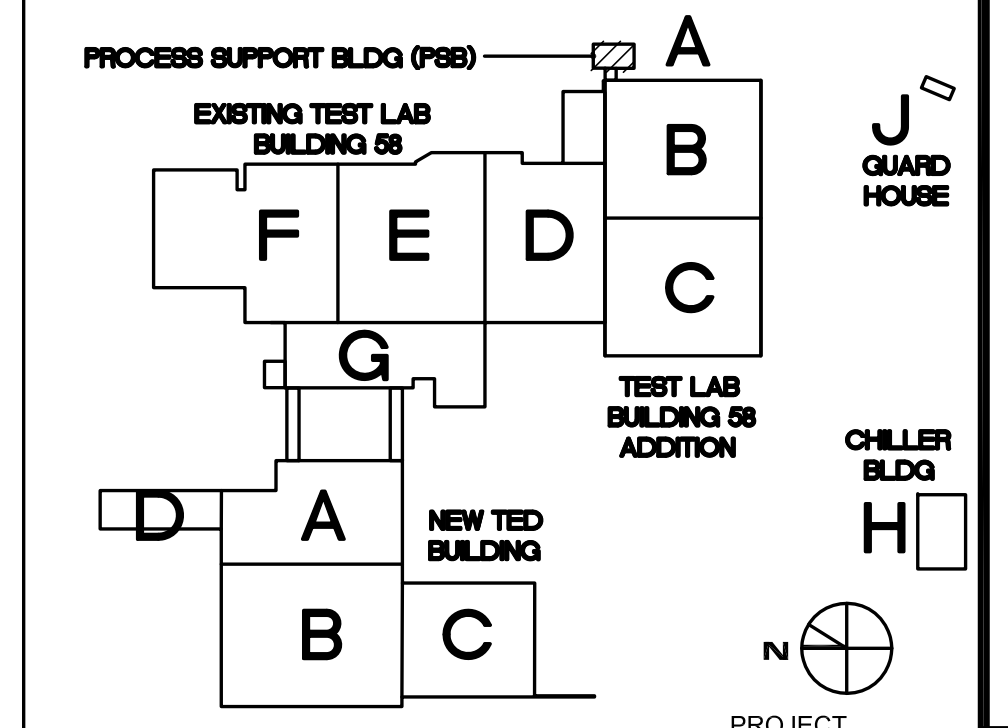
SCALE	DRAWING NUMBER	SHEET	REV
1/4" = 1'-0"	100011-132-P4-STE	TLR-P2.0.A1	

- NOTES:**
- ALL INTERCONNECTING PIPING SHALL BE HEAT TRACED & INSULATED AND INSTALLED BY THE PLUMBING CONTRACTOR. ALL PRESSURIZED CHEMICAL LINES, BOTH ABOVE GROUND AND UNDERGROUND, ARE TO BE DOUBLE CONTAINED.
 - TEMPORARY UTILITIES ARE NEEDED TO OCCUPY THE PSB. CONTRACTOR SHALL PROVIDE THESE UTILITIES SUCH AS STORM AND SANITARY WASTE.
 - FOR EACH DRAIN AREA, ONE VALVE CAN BE OPENED TO DIRECT FLOW TO THE STORM DRAINS, AND ONE VALVE CAN BE OPENED TO DIRECT FLOW TO THE INDUSTRIAL WASTE SYSTEM. THE POSITION OF EACH VALVE IS MANUALLY CONTROLLED BY JLAB PERSONNEL. UNDER NORMAL CONDITIONS, BOTH VALVES ARE CLOSED. AFTER JLAB PERSONNEL MEASURE THE PH OF THE WATER IN THE AREA, FLOW IS THEN MANUALLY DIRECTED EITHER TO THE STORM DRAINS OR THE INDUSTRIAL WASTE SYSTEM AS DETERMINED BY PH. ALL VALVES MAINTAIN THEIR STATE UPON LOSS OF ELECTRIC POWER, CONTROL SIGNAL, OR AIR PRESSURE.
 - CONTROL VALVE, CONTROL PANEL, AND VALVE BOXES SHALL BE PROVIDED BY ONE SUPPLIER. THE COMPLETE SYSTEM SHALL BE PROVIDED BY ESP SPECIALTY PRODUCTS. SYSTEM MODEL NUMBER SPPSX1
 - THE PROCESS SUPPORT BUILDING (PSB) IS A HIGHLY CORROSIVE FACILITY. ALL PIPING, EQUIPMENT, ETC. SHALL BE SELECTED AS SUCH TO BE COMPATIBLE WITH HIGHLY CORROSIVE ENVIRONMENTS.
 - REFER TO ELECTRICAL DRAWINGS FOR CONDUIT LOCATIONS AND SIZES.



FOR CONTINUATION SEE DWG TLR-P2.0.B

FOR CONTINUATION SEE DWG TLR-P2.0.A2



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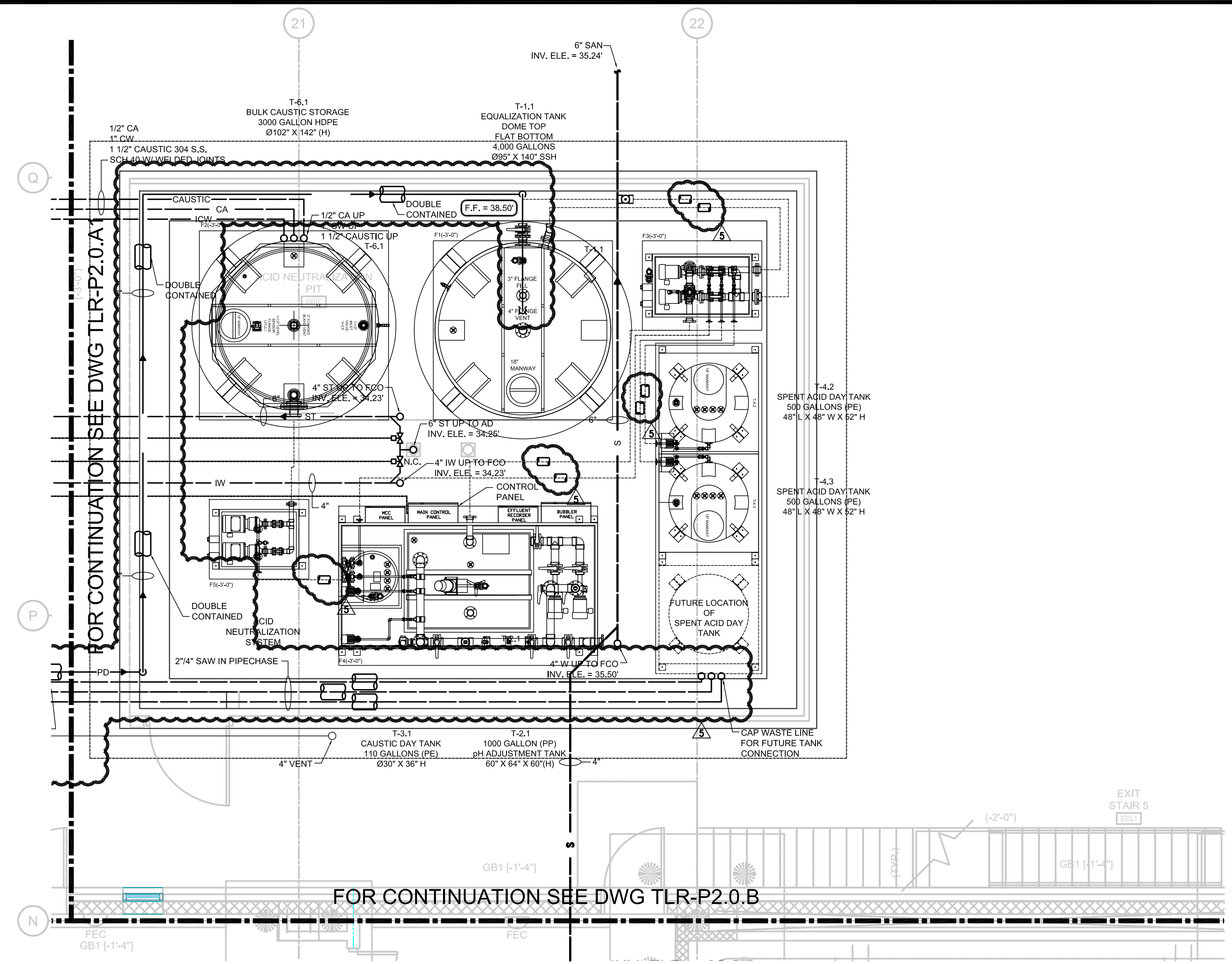
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5		ADDENDUM #4		03/05/10
		ISSUE NO. 1 / EPP		02/08/10

REVISIONS			
FACILITY USERS		FACILITIES & LOGISTICS	
APPROVED	DATE	DESIGNER	DATE
JLC	6.19.09	JLC	6.19.09
JLC	6.19.09	FA	6.19.09
FA	6.19.09	APPROVED	



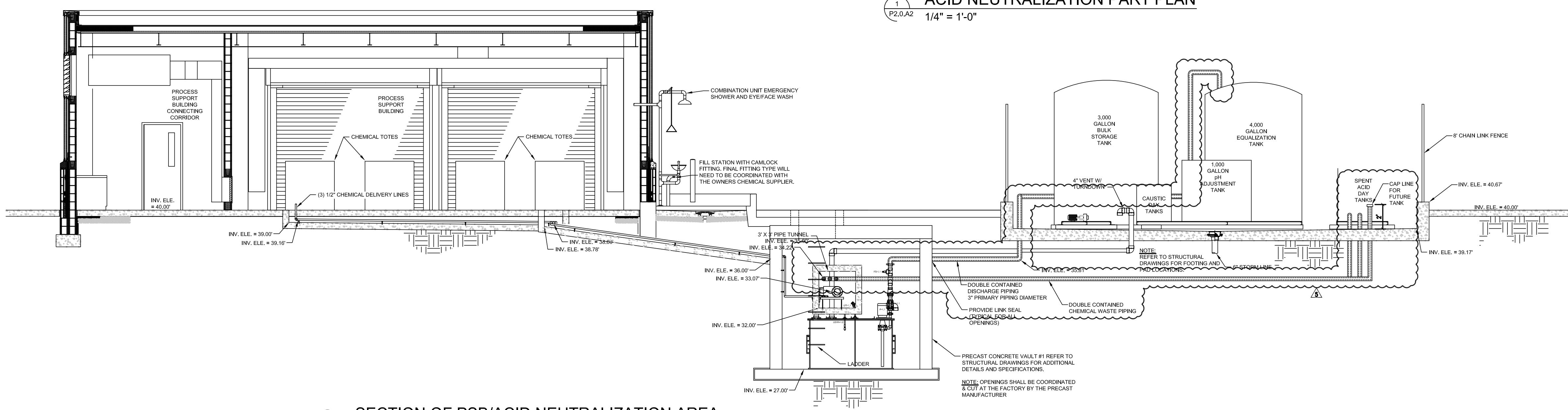
TITLE: UNDERGROUND - NEW WORK - WASTE, VENT, & STORM PIPING - SEGMENT A2

SCALE	DRAWING NUMBER	SHEET	REV
1/4" = 1'-0"	100011-133-PS-STE	TLR-P2.0.A2	

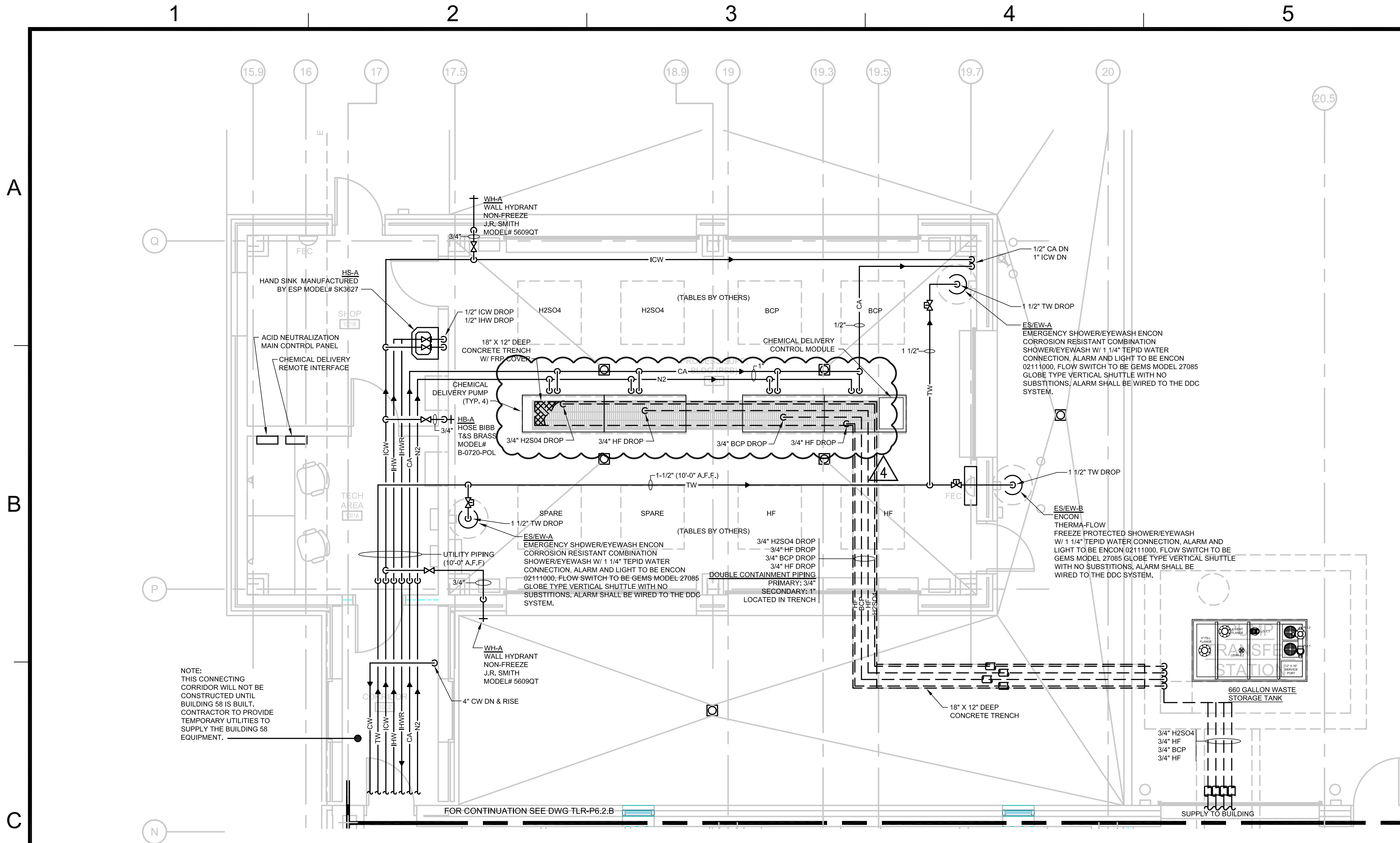


1 ACID NEUTRALIZATION PART PLAN
1/4" = 1'-0"

- NOTES:**
- ALL INTERCONNECTING PIPING SHALL BE HEAT TRACED & INSULATED AND INSTALLED BY THE PLUMBING CONTRACTOR. ALL PRESSURIZED CHEMICAL LINES, BOTH ABOVE GROUND AND UNDERGROUND, ARE TO BE DOUBLE CONTAINED.
 - TEMPORARY UTILITIES ARE NEEDED TO OCCUPY THE PSB, SO THE CONTRACTOR SHALL PROVIDE THESE UTILITIES SUCH AS STORM AND SANITARY WASTE.
 - UNDER NORMAL CONDITIONS THE STORM VALVE WILL REMAIN OPEN AND VALVE ON THE IW WILL REMAIN CLOSED. UPON ARRIVAL TO THE SITE THE OPERATOR FROM THE CHEMICAL SUPPLIER SHALL ACTIVATE THE BUTTON ON THE CONTROL PANEL WHICH WILL CLOSE THE VALVE ON THE STORM SYSTEM AND OPEN THE CONTROL VALVE ON THE INDUSTRIAL WASTE. UPON LEAVING THE BUILDING THE OPERATOR SHALL PUSH THE BUTTON AGAIN WHICH WILL POSITION THE VALVES BACK TO NORMAL CONDITIONS.
 - CONTROL VALVE, CONTROL PANEL, AND VALVE BOXES SHALL BE PROVIDED BY ONE SUPPLIER. THE COMPLETE SYSTEM SHALL BE PROVIDED BY ESP SPECIALTY PRODUCTS. SYSTEM MODEL NUMBER SPPSX1
 - THE PROCESS SUPPORT BUILDING (PSB) IS A HIGHLY CORROSIVE FACILITY. ALL PIPING, EQUIPMENT, ETC. SHALL BE SELECTED AS SUCH TO BE COMPATIBLE WITH HIGHLY CORROSIVE ENVIRONMENTS.
 - REFER TO ELECTRICAL DRAWINGS FOR CONDUIT LOCATIONS AND SIZES.



2 SECTION OF PSB/ACID NEUTRALIZATION AREA
NTS



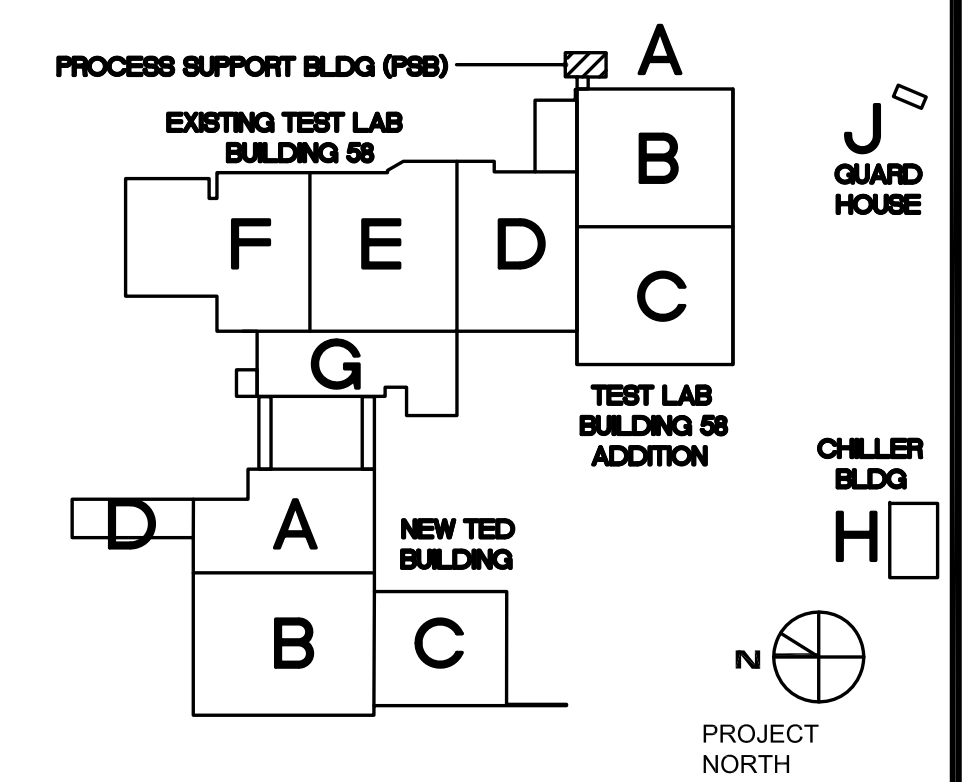
- NOTES:**
- SEE DWGS. TLR-P6.2.B & TLR-P2.2.B FOR CONTINUATION OF CHEMICAL & SERVICE UTILITY PIPING.
 - DESIGN DATA TABLE**
 SYSTEM: DOMESTIC WATER/ INDUSTRIAL WATER
 DESIGN WORKING PRESSURE: 60 PSIG
 DESIGN WORKING TEMPERATURE: AMBIENT DEG. F MAX.
 SYSTEM FLUID: WATER
 DESIGN CODE: ASME/ANSI 831.9
 FLUID CATEGORY: NOT APPLICABLE TO THIS CODE
 PIPING MATERIAL: COPPER TYPE L
 PIPING COMPONENTS: FITTINGS
 JOINTS: SOLDERED
 FABRICATION ORGANIZATION: TBD
 DESIGN ORGANIZATION: EWING COLE
 JOINT EXAMINATION REQUIREMENTS: VISUAL EXAM
 TESTING REQUIREMENTS: HYDROSTATIC TO 1.5 TIMES
 - DESIGN DATA TABLE**
 SYSTEM: DOMESTIC HOT WATER/ INDUSTRIAL HOT WATER
 DESIGN WORKING PRESSURE: 60 PSI
 DESIGN WORKING TEMPERATURE: 120°F MAX.
 SYSTEM FLUID: WATER
 DESIGN CODE: ASME/ANSI 831.9
 FLUID CATEGORY: NOT APPLICABLE TO THIS CODE
 PIPING MATERIAL: COPPER TYPE L
 PIPING COMPONENTS: FITTINGS
 JOINTS: SOLDERED
 FABRICATION ORGANIZATION: TBD
 DESIGN ORGANIZATION: EWING COLE
 JOINT EXAMINATION REQUIREMENTS: VISUAL EXAM
 TESTING REQUIREMENTS: HYDROSTATIC TO 1.5 TIMES
 - INSTALL PRESSURE SERVICE PIPING TIGHT TO STRUCTURE.
- NOTE:**
- THE WORKING PRESSURE IN ACCORDANCE WITH DESIGN CODE FABRICATOR NAME TO BE COMPLETED BY CONTRACTOR.
 - FINAL CONNECTION TO EQUIPMENT BY CONTRACTOR.

NOTE:
THIS CONNECTING CORRIDOR WILL NOT BE CONSTRUCTED UNTIL BUILDING 58 IS BUILT. CONTRACTOR TO PROVIDE TEMPORARY UTILITIES TO SUPPLY THE BUILDING 58 EQUIPMENT.

- NOTES:**
- TEMPORARY UTILITIES ARE NEEDED TO OCCUPY THE PSB. THE CONTRACTOR SHALL PROVIDE THESE UTILITIES TO MAKE THE PSB A FULLY OPERATIONAL FACILITY. (SEE DRAWING)
 - THE CHEMICAL SUPPLY LINES SHOWN ARE INSTALLED WHEN BUILDING 58 IS FULLY CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE TEMPORARY ROUTING OF THE CHEMICAL DELIVERY SUPPLY LINES TO PROVIDE CHEMICALS TO THE EXISTING SUPPORT SPACES. CONTRACTOR SHALL PROVIDE TEMPORARY HEAT TRACING, INSULATION, CONDUIT, ETC. TO MAKE THE TEMPORARY CHEMICAL SUPPLY A COMPLETE AND FULLY OPERATIONAL SYSTEM.
 - THE PROCESS SUPPORT BUILDING (PSB) IS A HIGHLY CORROSIVE FACILITY. ALL PIPING, EQUIPMENT, ETC. SHALL BE SELECTED AS SUCH TO BE COMPATIBLE WITH HIGHLY CORROSIVE ENVIRONMENTS.
- HEAT TRACE**
- PROVIDE ELECTRICAL HEAT-TRACING WHERE INDICATED ON DRAWINGS. HEAT TRACE SHALL BE SIZED FOR 3W/FT., 277V. SYSTEM SHALL BE EQUIPPED WITH A TEMP SENSOR / CONTROLLER THAT SHALL BE ADJUSTABLE AND HAVE THE ABILITY TO SET THE TEMPERATURE TO AVOID OVER HEATING OF THE SYSTEM. ORRDINATE CONNECTION AND TERMINATION POINTS WITH THE ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR.

EWING COLE

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APPROVED	DATE	DESIGNER	JLC	DATE
APPROVED		DRAWN	JLC	6.19.09
APPROVED		CHECKED	FA	6.19.09
APPROVED		APPROVED		

Jefferson Lab

TITLE:
FIRST FLOOR - NEW WORK - PRESSURE SERVICE PIPING - SEGMENT A

SCALE	DRAWING NUMBER	SHEET	REV
1/4" = 1'-0"	100011-136-P6-STE	TLR-P2.2.A	