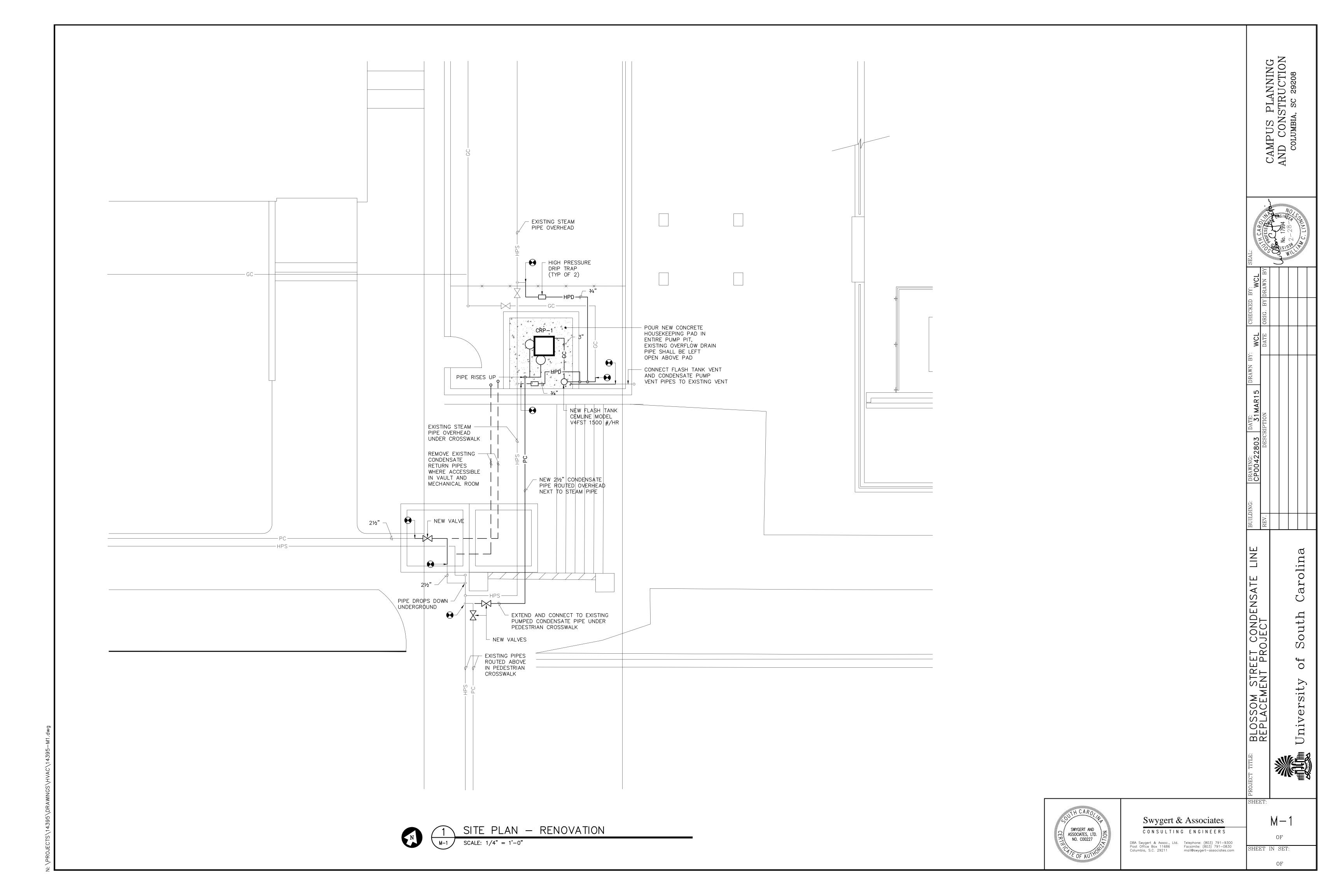
## BLOSSOM STREET CONDENSATE LINE REPLACEMENT PROJECT

PROJECT NUMBER CP00422803
COLUMBIA, SC
CONSTRUCTION DOCUMENTS

DRAWING INDEX			
TITLE SHEET  HANICAL  SITE PLAN DETAILS, NOTES, SCHEDULES, AND LEGEND  STRICAL  ELECTRICAL PLAN	CAMPUS PLANNING AND CONSTRUCTION COLUMBIA, SC 29208		
	BUILDING: CP00422803 31MAR15 DRAWN BY: DATE: DAT		
	PROJECT TITLE: BLOSSOM STREET CONDENSATE LINE REPLACEMENT PROJECT  REPLACEMENT PROJECT  BY THE LINE BROSSOM STREET CONDENSATE LINE  BY THE LINE BROSSOM STREET CONDENSATE LINE  BY THE PROJECT  BY THE PROJECT		
Swygert & Associates  CONSULTING ENGINEERS  DBA Swygert & Assoc., Ltd. Post Office Box 11686 Columbia, S.C. 29211  Telephone: (803) 791-9300 Facsimile: (803) 791-0830 mail@swygert-associates.com	SHEET:  T1  OF  SHEET IN SET:  OF		

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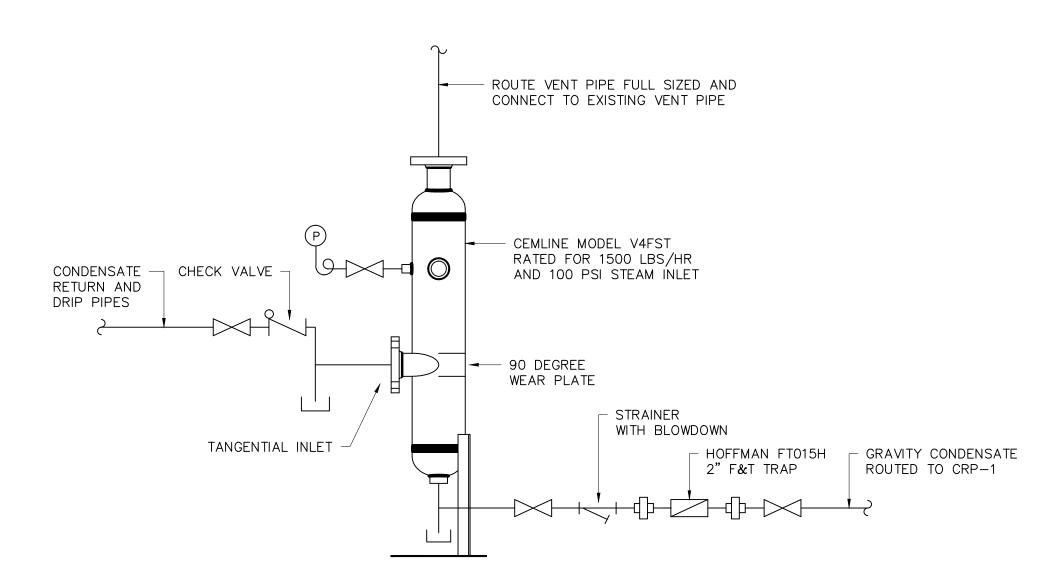
CONDENSATE RETURN UNIT						
TAG	DOMESTIC PUMP MODEL NO.	CAP. GPM	DIS. PRESS. PSIG	MOTOR H.P.	RECEIVER CAPGALS.	REMARKS
CRP-1	303CC	30	30	1	36	1,2

- . PROVIDE MECHANICAL ALTERNATOR PUMP CONTROL, NEMA 2 TYPE CONTROL PANEL, VENT AND OVERFLOW AND FUSED DISCONNECT.
- 2. PUMPS SHALL BE DUPLEX ARRANGEMENT.

PUMPED CONDENSATE RETURN, SEE FLOOR PLAN FOR CONTINUATION	UNION (TYP.)	CONDENSATE RETURN  BALL VALVE (TYP.)  1" DRAIN ROUTED TO OVERFLOW DRAIN  STRAINER WITH BLOWDOWN  ANCHOR PUMP TO HOUSEKEEPING PAD
	CHECK VALVE (TYP.)  PLUG COCK (TYP.)	

## DUPLEX CONDENSATE RETURN UNIT

NO SCALE



FLASH TANK DETAIL NO SCALE

## GENERAL NOTES

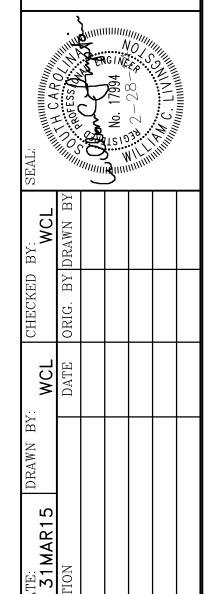
- 1. VISIT SITE PRIOR TO BIDDING. THIS CONTRACTOR SHALL DETERMINE DIFFICULTY OF INSTALLATION AND REFLECT THIS IN HIS BIDDING.
- 2. DO NOT SCALE DRAWINGS. THIS CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS AND LOCATIONS IN THE FIELD.
- 3. ALL PIPING LOCATIONS SHALL BE COORDINATED WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
- 4. EXISTING PIPE, DUCTWORK, CONDUIT, ETC. THAT INTERFERES WITH THE ROUTING OF NEW SYSTEMS SHALL BE RELOCATED. THIS CONTRACTOR SHALL INCLUDE THE COST OF SUCH IN HIS BID UNLESS NOTED OTHERWISE.
- 5. SEE SITE PLAN FOR CONTINUATION OF UTILITIES.
- 6. WATER SYSTEMS SHALL BE DRAINED AS REQUIRED FOR INSTALLATION OF WORK. UPON COMPLETION, SYSTEM SHALL BE FILLED WITH WATER AND VENTED OF ALL
- 7. ALL PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS, ROOFS AND PARTITIONS.
- 8. ALL PIPING IS SHOWN DIAGRAMMATIC. HOWEVER, THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS, PIPING AND INSULATION FOR ALL OFFSETS AND/OR CHANGES IN ELEVATION.
- 9. EXTEND ALL DRAIN LINES TO NEAREST FLOOR DRAIN OR AS INDICATED SO ROUTED AS TO AVOID INTERFERENCE WITH PASSAGEWAYS AND MAINTENANCE. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED PER STATIC PRESSURE REQUIREMENTS.
- 10. EXTEND DRAIN LINES FROM RELIEF VALVES TO NEAREST FLOOR DRAIN UNLESS OTHERWISE NOTED OR INDICATED.
- 11. ALL VALVES AND SPECIALTIES SHALL BE LINE SIZE UNLESS NOTED OTHERWISE, USING ECCENTRIC REDUCERS ON PUMP SUCTION AND CONCENTRIC REDUCERS ON PUMP DISCHARGE. USE ECCENTRIC REDUCERS ON AUTOMATIC VALVES AS REQUIRED.
- 12. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS AND FURTHER SUPPORTS OR HANGERS SHALL BE PROVIDED TO PREVENT WEIGHT OF PIPING BEING PLACED ON EQUIPMENT.
- 13. INSTALL ANCHORS AND EXPANSION LOOPS WHERE INDICATED ON DRAWINGS AND WHERE REQUIRED TO ALLOW FOR EXPANSION.
- 14. STEAM MAINS SHALL PITCH DOWN IN DIRECTION OF FLOW A MINIMUM OF ONE INCH IN FIFTY FEET. CONDENSATE RETURN MAINS SHALL PITCH DOWN IN DIRECTION OF FLOW A MINIMUM OF ONE INCH IN FIFTY FEET.
- 15. ALL ITEMS OF EQUIPMENT IN MECHANICAL ROOM SHALL BE LOCATED ON REINFORCED CONCRETE FOUNDATIONS, MINIMUM 6-INCH THICK OR AS DETAILED ON THESE PLANS AND SPECIFICATIONS AND 6 INCHES LARGER THAN EQUIPMENT IN EACH DIRECTION. PADS SHALL BE REINFORCED PER THE HOUSEKEEPING PAD SECTION OF THE ASHRAE PRACTICAL GUIDE FOR SEISMIC RESTRAINT. ALL UNITS SHALL BE SECURED TO THE HOUSEKEEPING PAD WITH SEISMIC RESTRAINTS. PROVIDE 1-INCH CHAMFERS ON ALL SIDES.
- 16. PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT.
- 17. THIS CONTRACTOR SHALL PROVIDE ALL ITEMS OF MISCELLANEOUS STEEL AS REQUIRED FOR INSTALLATION OF ALL MECHANICAL ITEMS.
- 18. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY DISMANTLING OF EQUIPMENT TO BE REMOVED.
- 19. ITEMS REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.

20. THIS CONTRACTOR SHALL PATCH ALL WALLS AND FINISHED TO MATCH EXISTING

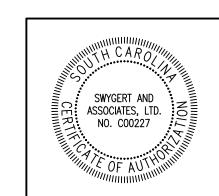
WHERE ALL ITEMS OR EQUIPMENT ARE REMOVED.

	LEGEND				
SYMBOL	DESCRIPTION				
→ HPS → → → → → → → → → → → → → → → → → → →	EXISTING HIGH PRESSURE STEAM				
<i></i> ← PC → ?	EXISTING PUMPED CONDENSATE				
	EXISTING GRAVITY CONDENSATE				
HPS	HIGH PRESSURE STEAM LINE				
<hpd< th=""><th>HIGH PRESSURE CONDENSATE DRIP LINE</th></hpd<>	HIGH PRESSURE CONDENSATE DRIP LINE				
PC	PUMPED CONDENSATE LINE				
GC	GRAVITY CONDENSATE LINE				
ڪ <b>, ک</b>	PIPE TURNS TO, AWAY				
<b>├</b>	UNION				
$\leftarrow \bowtie \rightarrow$	SHUTOFF VALVE				
~ <del>\</del>	CHECK VALVE				
<i>&gt;</i>	STRAINER WITH BLOWDOWN				
$\Theta$	CONNECTION POINT OF NEW TO EXISTING				

CAMPUS PLANNING AND CONSTRUCTION COLUMBIA, SC 29208



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Swygert & Associates

M-2CONSULTING ENGINEERS

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