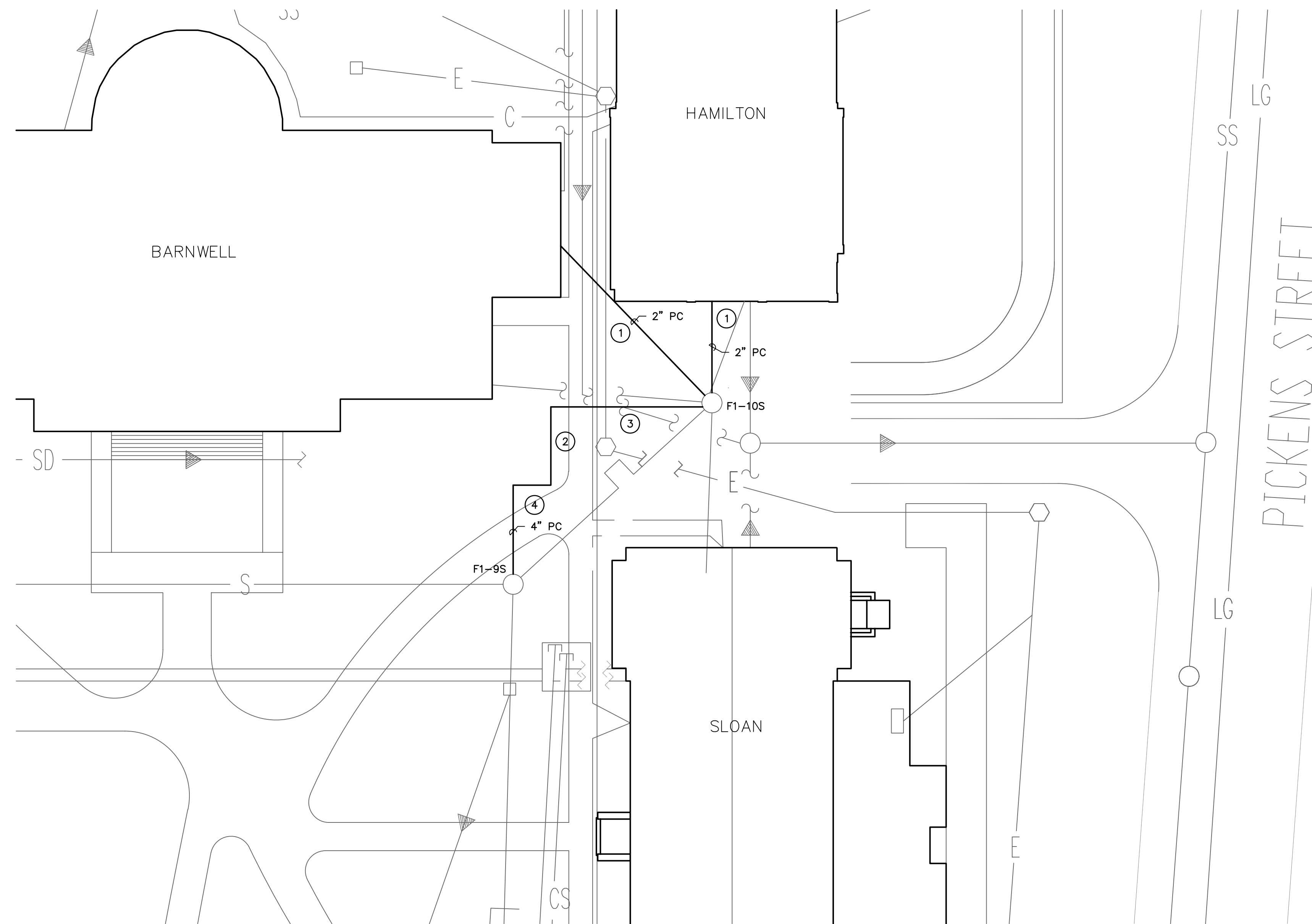


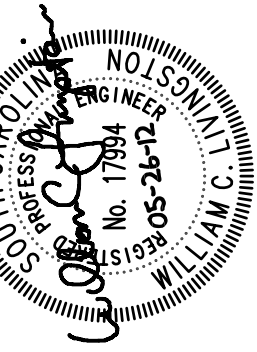
NOTES TO SHEET

- ① ROUTE NEW 2" PUMPED CONDENSATE IN TUNNEL INTO MECHANICAL ROOM AND TIE INTO EXISTING PUMPED CONDENSATE WITH A NEW VALVE. REMOVE EXISTING PUMPED CONDENSATE IN THE EXISTING TUNNEL.
- ② INSTALL NEW 4" UNDERGROUND PUMPED CONDENSATE IN BETWEEN F1-9S AND F1-10S. REMOVE EXISTING UNDERGROUND PUMPED CONDENSATE WHERE IT INTERFERES WITH NEW PIPE ROUTING.
- ③ COORDINATE ALL UNDERGROUND EXCAVATION AND PIPE ROUTING WITH ELECTRICAL AND COMMUNICATION LINES IN THIS AREA.
- ④ REMOVE AND PATCH CONCRETE SIDEWALK AND BRICK PAVERS TO MATCH EXISTING WITH PROPER UNDERLAY SUPPORT AND FINISH.



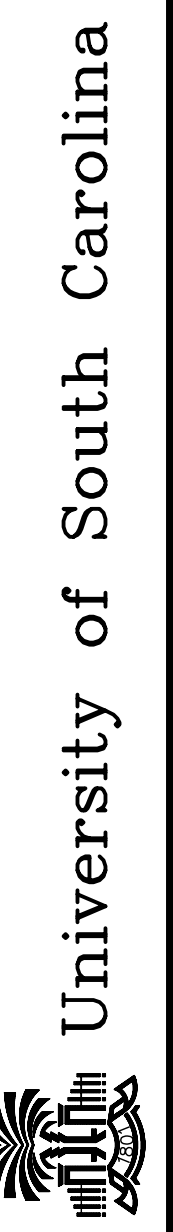
1 SITE PLAN
M-1 SCALE: 1" = 20'

CAMPUS PLANNING
AND CONSTRUCTION
COLUMBIA, SC 29208

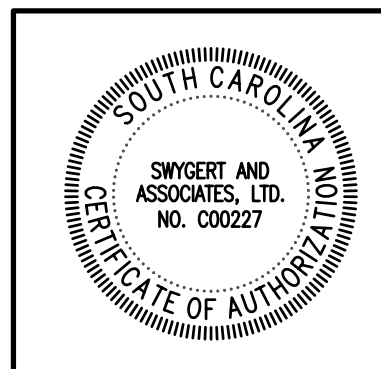


BUILDING	DRAWING	DATE	DRAWN BY	DEM	CHECKED BY
REV	NO.		DESCRIPTION	DATE	DATE
	CPO0342155	26MAY12			WCL

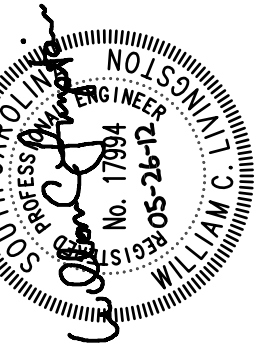
PROJECT TITLE: SLOAN COLLEGE CONDENSATE LINE REPLACEMENT
STATE PROJECT NO.: H27-1990



SHEET:
M-1
OF
SHEET IN SET:
OF



Swygert & Associates
CONSULTING ENGINEERS
DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
Post Office Box 11686 Fax: (803) 791-9830
Columbia, S.C. 29211 mail@swygert-associates.com



SEAL:	WCL
CHECKED BY:	WCL
ORIG. BY:	
DATE:	
DEM DATE:	
DRAWN BY:	
DATE:	26MAY12
DRAWING:	CP00342155
DESCRIPTION:	
BUILDING:	
REV:	

PROJECT TITLE: SLOAN COLLEGE CONDENSATE LINE REPLACEMENT
STATE PROJECT NO.: H27-1990

University of South Carolina



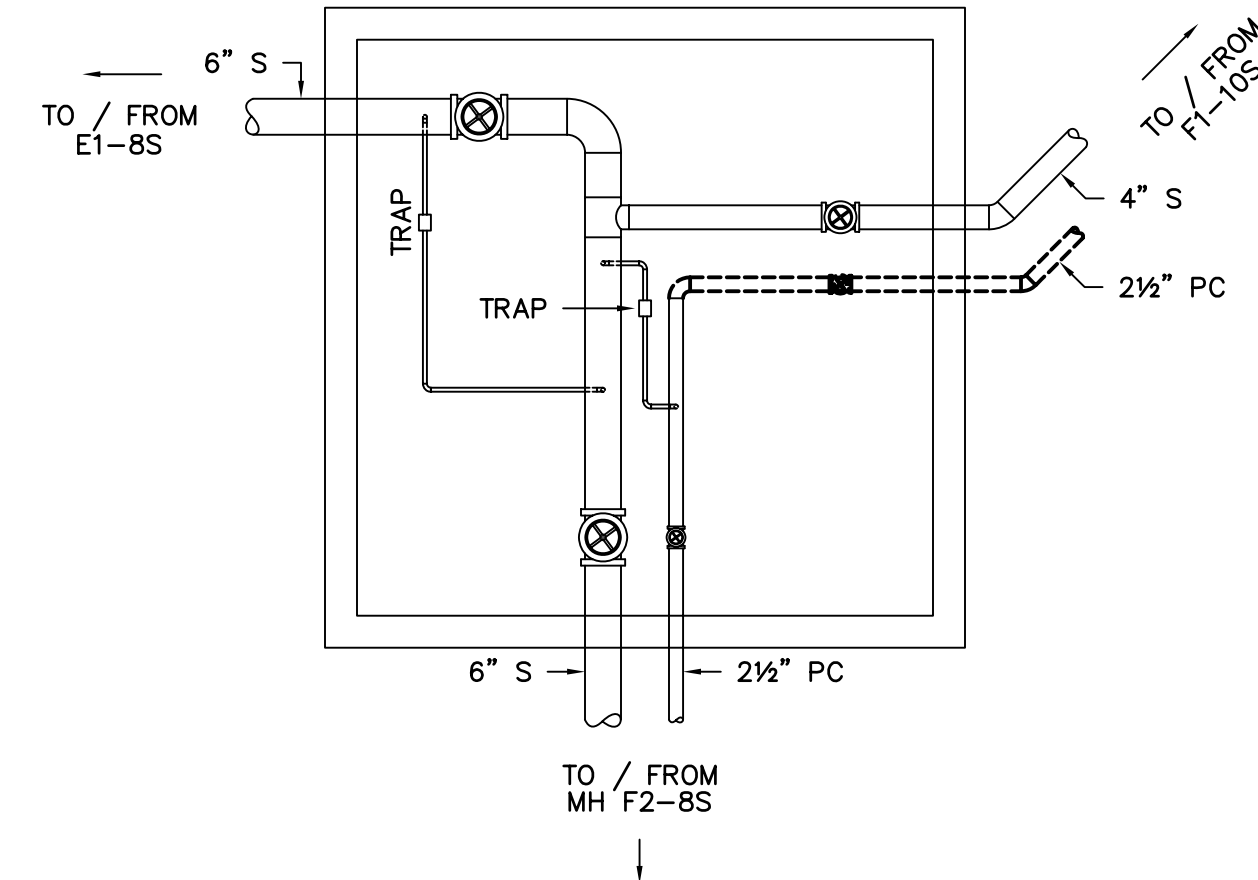
SHEET:

M-2

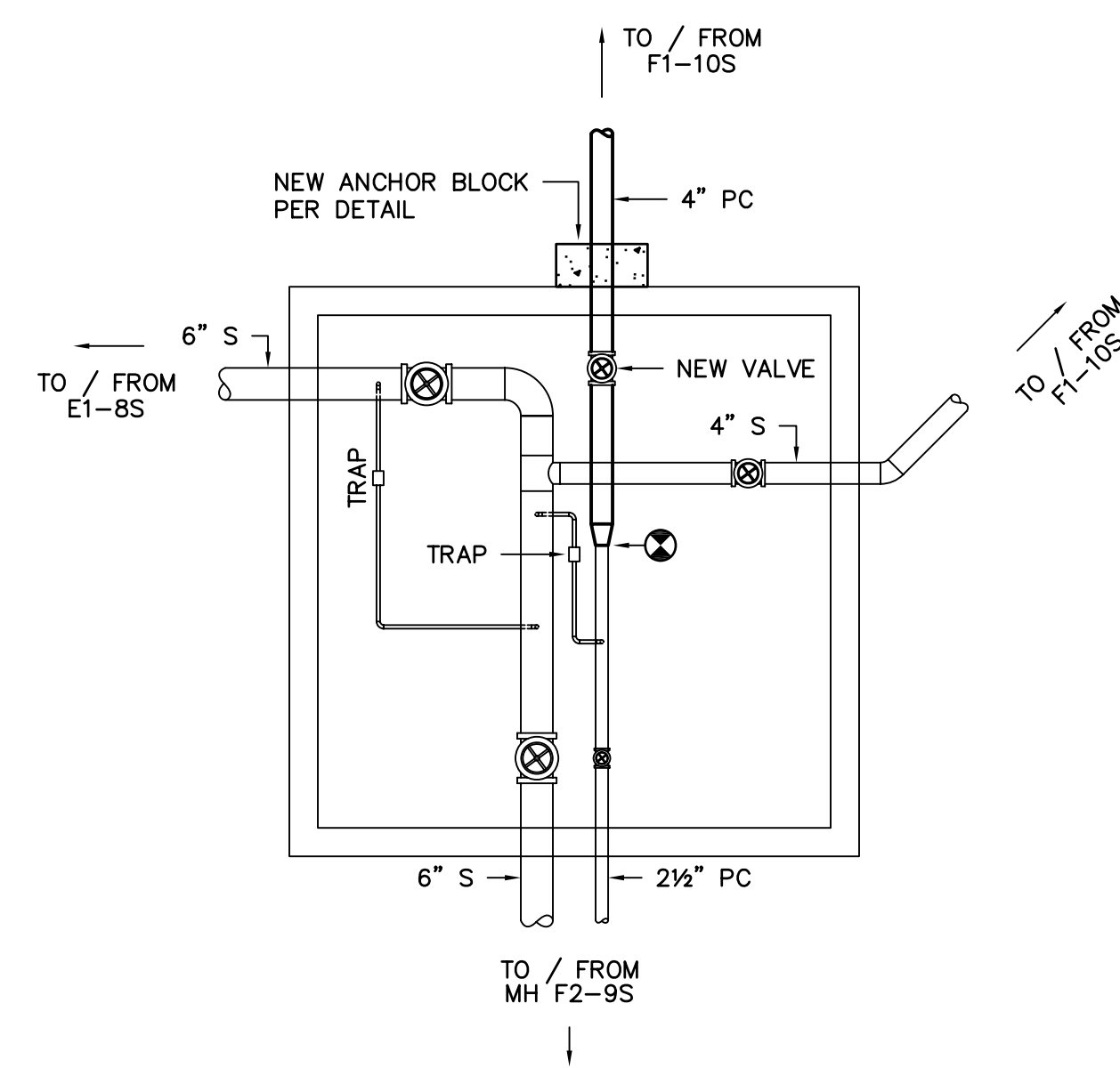
OF

SHEET IN SET:

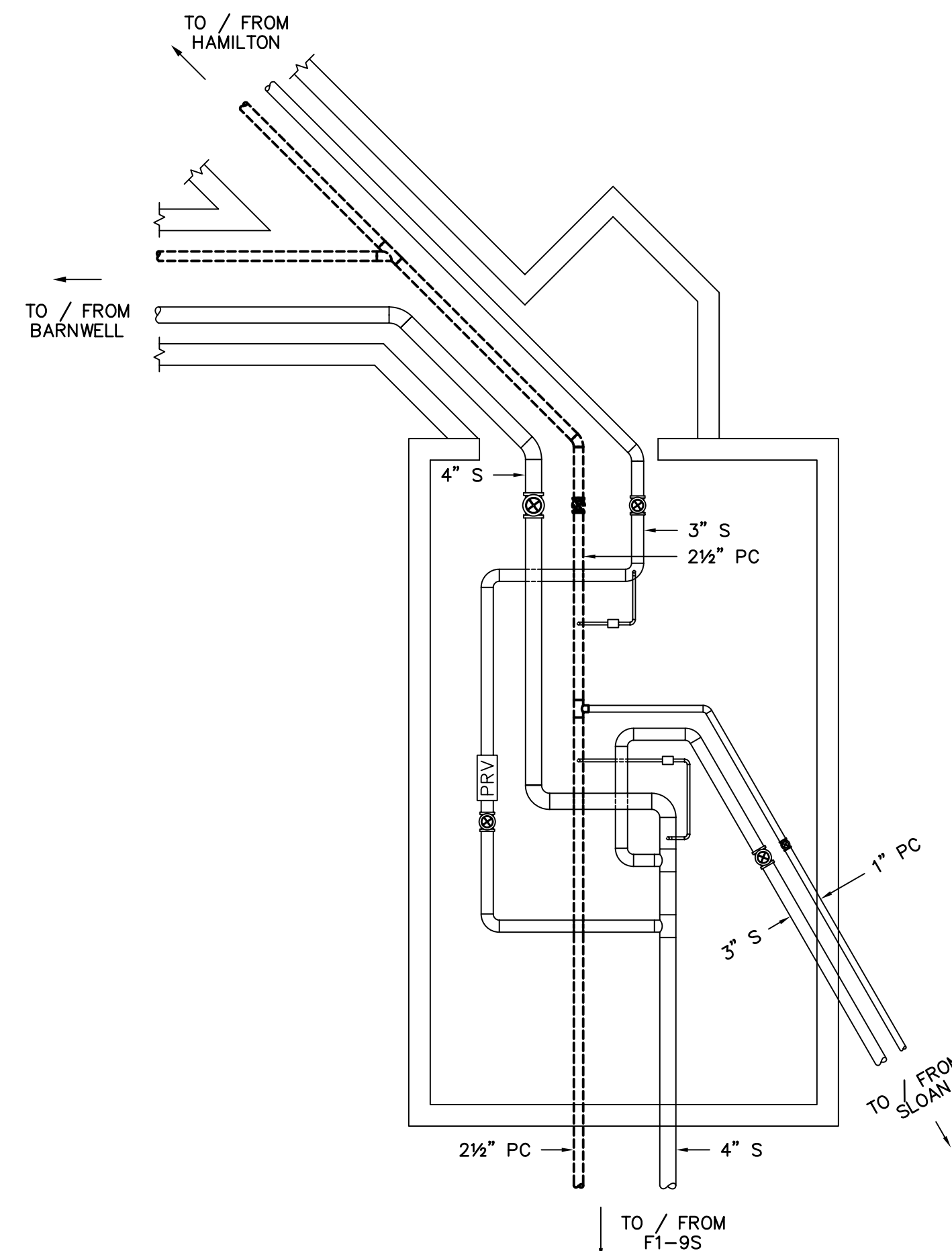
OF



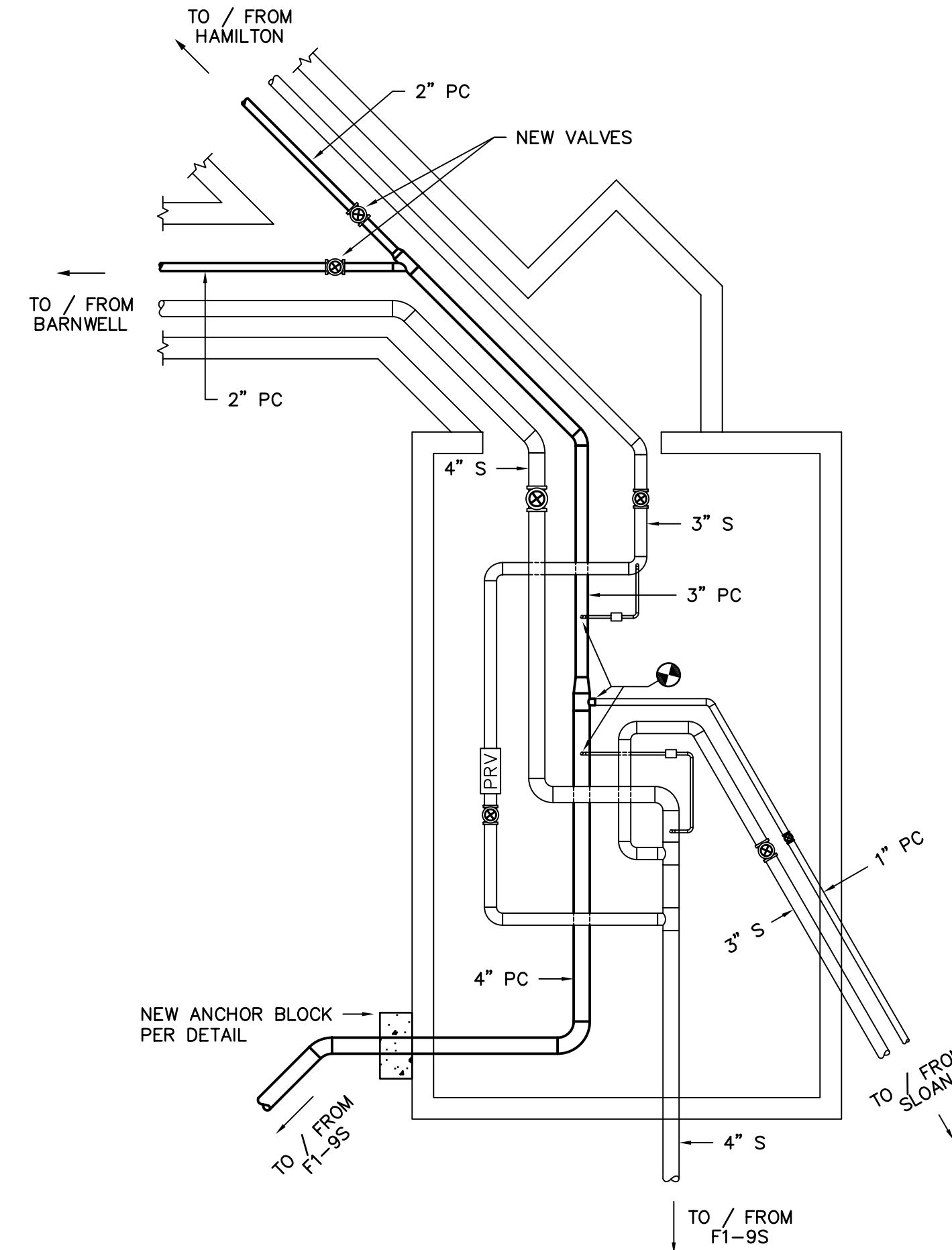
DEMOLITION
MANHOLE F1-9S
NO SCALE



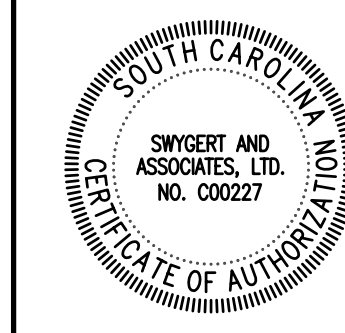
RENOVATION
MANHOLE F1-9S
NO SCALE



DEMOLITION
MANHOLE F1-10S
NO SCALE

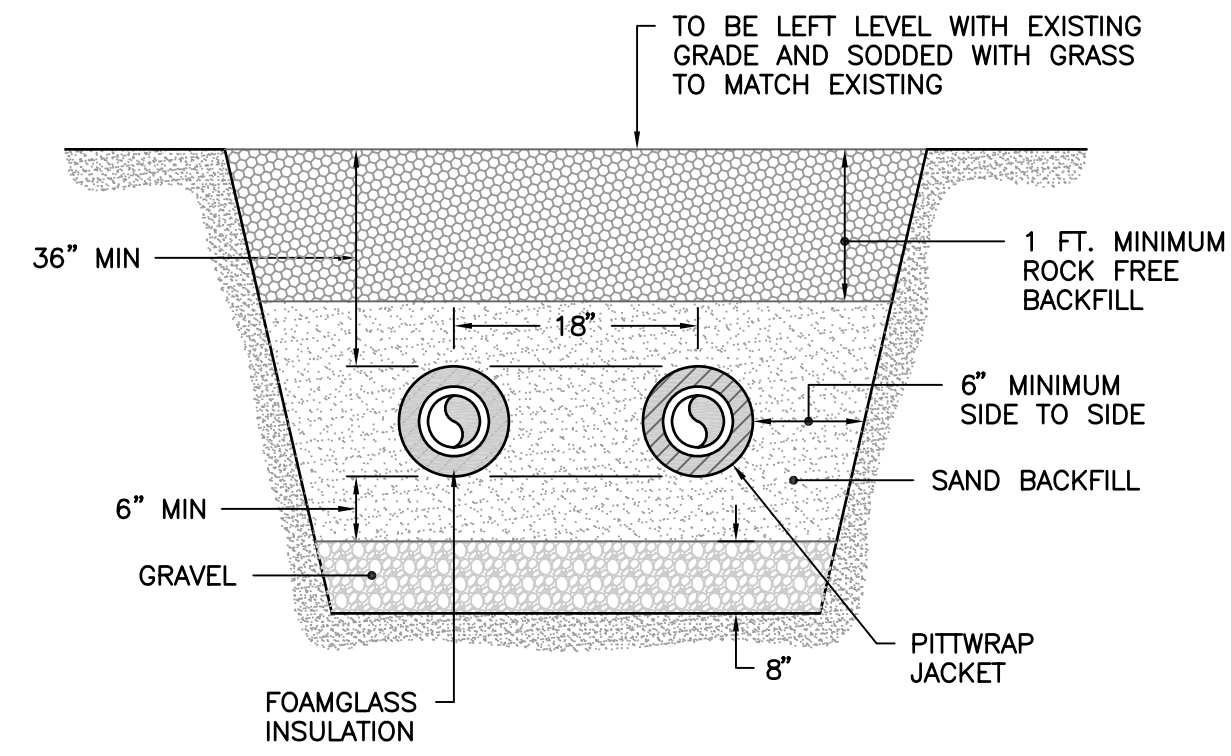


RENOVATION
MANHOLE F1-10S
NO SCALE



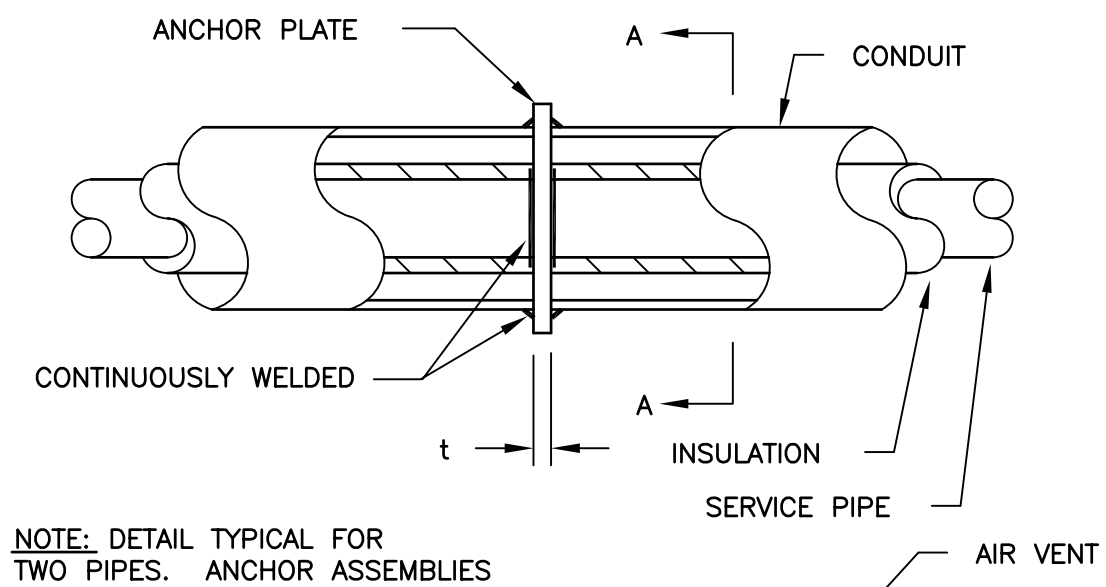
Swygert & Associates
CONSULTING ENGINEERS

DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
Post Office Box 11686 Fax: (803) 791-9830
Columbia, S.C. 29211 mail@swygert-associates.com



BACKFILL DETAIL

NO SCALE



NOTE: DETAIL TYPICAL FOR TWO PIPES. ANCHOR ASSEMBLIES TO BE POSITIONED NO FURTHER THAN 5' FROM MANHOLE.

A = ANCHOR PLATE HEIGHT = CONDUIT O. D. + 1"
 B = ANCHOR PLATE WIDTH = CONDUIT O. D. + 6"
 t* = ANCHOR PLATE THICKNESS 1/2" UP TO 22" CONDUIT SIZE 3/4" FOR 24" AND LARGER CONDUIT SIZES.

* SPECIAL PLATE THICKNESS REQUIRED FOR SYSTEMS W/ EXPANSION JOINTS

NOTE: A CONCRETE BLOCK SHALL BE CAST OVER THE PLATE AND CONDUIT AND SHALL BE AT LEAST 30" IN LENGTH AND SHALL EXTEND A MINIMUM OF 9" BEYOND THE TOP AND BOTTOM OF ANCHOR PLATE.

STANDARD ANCHOR ASSEMBLY

NO SCALE

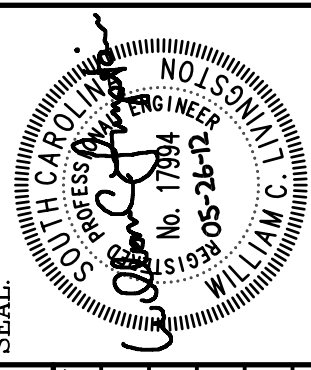
GENERAL NOTES

- DO NOT SCALE DRAWINGS. VERIFY ALL REQUIRED INFORMATION IN THE FIELD BY VISITING SITE PRIOR TO SUBMITTING BID.
- EXACT ROUTING OF PIPING SHALL BE SET IN FIELD TO MINIMIZE CONFLICTS WITH ALL ABOVE AND UNDERGROUND STRUCTURES, TREES, FENCES, WALKS, WALLS, AND UTILITIES.
- ALL PIPING IS SHOWN DIAGRAMMATIC. HOWEVER, CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS, PIPING, AND INSULATION FOR ALL OFFSETS AND/OR CHANGES IN ELEVATIONS. WHERE NECESSARY DUE TO INTERFERENCE, CONTRACTOR SHALL MODIFY EXISTING PIPING, EQUIPMENT, ETC.
- ALL VALVES AND SPECIALTIES SHALL BE LINE SIZE UNLESS INDICATED OTHERWISE ON DRAWINGS.
- ALL STEAM AND PUMPED CONDENSATE SHALL PITCH DOWN A MINIMUM OF ONE INCH PER FIFTY FEET.
- ALL OPENINGS THROUGH EXISTING STRUCTURES SHALL BE CORE DRILLED.
- COLD SPRING ALL STEAM LINES FIFTY (50) PERCENT.
- WHERE PIPING ENTERS MANHOLE CONSTRUCT ENTRY AS REQUIRED. ALL PIPES TO BE SLEEVED AND LINK SEALED TO MAKE WATERTIGHT.
- ALL PIPING AND FITTINGS IN MANHOLES TO BE INSULATED, SEE SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM OWNER FOR INTERRUPTIONS AND CONNECTIONS TO EXISTING UTILITY SYSTEMS.
- CONTRACTOR SHALL COORDINATE TREE AND LANDSCAPING REPLACEMENT WITH USC. IN GENERAL USC WILL REPLACE SMALL TREES THAT ARE NOTED TO BE REPLACED. CONTRACTOR IS RESPONSIBLE FOR SOD REPLACEMENT.
- ALL PIPING SHALL BE VENTED OF AIR AND FILLED WITH THEIR NORMAL FLUIDS OR GAS.
- CONTRACTOR SHALL CONTACT PALMETTO UTILITY PROTECTION SERVICES TO LOCATE UTILITIES PRIOR TO DIGGING. INFORMATION OBTAINED FROM PALMETTO UTILITY PROTECTION SERVICES AND DURING DIGGING SHALL BE INDICATED ON THE AS-BUILT DRAWINGS.
- CONSTRUCT TEMPORARY FENCING AROUND PROJECT AREA TO PROTECT THE SITE AND PEDESTRIANS.

LEGEND

SYMBOL	DESCRIPTION
—S—	NEW HIGH PRESSURE STEAM LINE
—PC—	NEW PUMPED CONDENSATE LINE
-----	EXISTING PIPE TO BE REMOVED OR ABANDONED
—PC—	EXISTING PUMPED CONDENSATE LINE
—S—	EXISTING HIGH PRESSURE STEAM LINE
—GC—	EXISTING GRAVITY CONDENSATE LINE
—CR—	EXISTING CHILLED WATER RETURN LINE
—CS—	EXISTING CHILLED WATER SUPPLY LINE
—E—	EXISTING HIGH VOLTAGE ELECTRICAL LINE
—C—	EXISTING COMMUNICATIONS LINE
—EC—	EXISTING ELECTRICAL AND COMMUNICATIONS PRIMARY DUCT
—SS—	EXISTING SANITARY SEWER LINE
—HG—	EXISTING HIGH PRESSURE GAS LINE
—LG—	EXISTING LOW PRESSURE GAS LINE
—SD—	EXISTING STORM DRAIN LINE
—V—	VELAN GATE VALVE, SEE SPECS
⊗	CONNECTION POINT OF NEW TO EXISTING

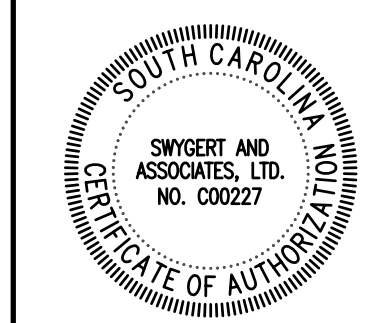
CAMPUS PLANNING AND CONSTRUCTION
 COLUMBIA, SC 29208



SEAL:	WCL
CHECKED BY:	WCL
ORIG. BY:	
DATE:	
DEM. DATE:	
DRAWN BY:	
DATE:	
DRAWING:	CP00342155
DATE:	26MAY12
DESCRIPTION:	
BUILDING:	
REV:	

PROJECT TITLE: SLOAN COLLEGE CONDENSATE LINE REPLACEMENT
 STATE PROJECT NO.: H27-1990

University of South Carolina



Swygert & Associates
 CONSULTING ENGINEERS
 DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
 Post Office Box 11686 Fax: (803) 791-9830
 Columbia, S.C. 29211 mail@swygert-associates.com

SHEET: M-3
 OF
 SHEET IN SET:
 OF