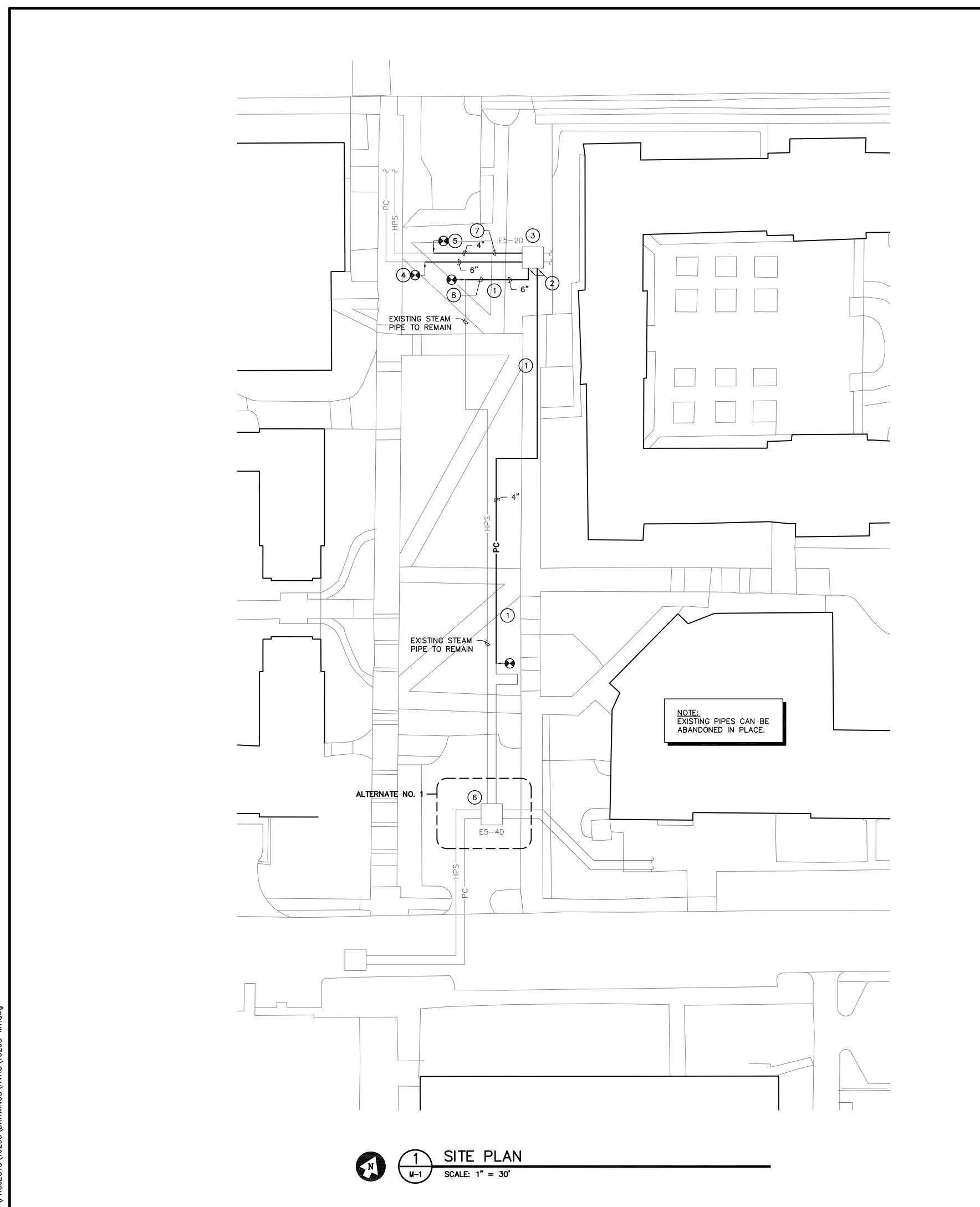
SOUTH QUAD PARKING LOT STEAM AND CONDENSATE LINE REPLACEMENT

STATE PROJECT NUMBER H27-Z282
COLUMBIA, SC
CONSTRUCTION DOCUMENTS

DRAWING INDEX GENERAL MECHANICAL DETAILS, NOTES, MANHOLE DIAGRAMS Swygert & Associates OF

CTS\16295\DRAWINGS\HVAC\16295-T1.dv

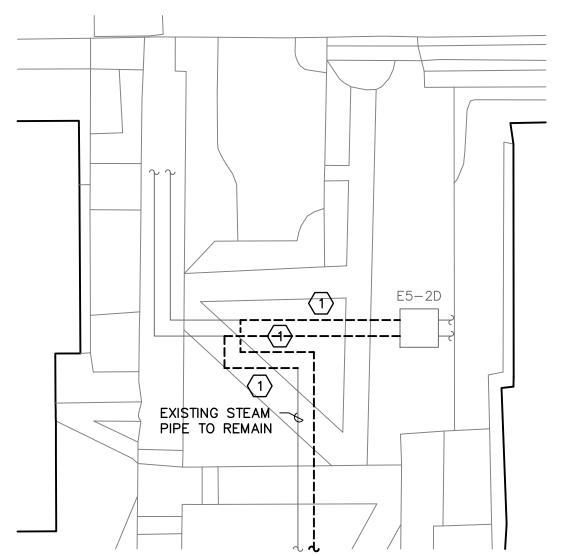




- 1) CUT AND PATCH SIDEWALK AS REQUIRED TO INSTALL NEW PIPE.
- 2 PROVIDE ANCHOR AT PIPE ENTRANCE.
- 3 CONNECT TO EXISTING PUMPED CONDENSATE AND STEAM INSIDE VAULT. PROVIDE NEW VALVES IN PIPE TO E5-4D.
- 4) REMOVE TEE AND INSTALL NEW PIPE BACK TO E5-2D.
- 5) REMOVE TEE AND INSTALL NEW PIPE BACK TO E5-2D.
- 6 REWORK EXISTING VAULT E5-4D AS SHOWN, WITH NEW VALVES.
- 7) SLOPE AT STEAM PIPE TO DRIP TRAP IN MANHOLE E5-2D.
- 8 MAINTAIN SLOPE BACK TO MANHOLE E5-4D.

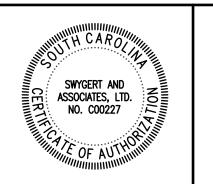
DEMOLITION NOTES

1 REMOVE EXISTING PIPE AS SHOWN.









Swygert & Associates CONSULTING ENGINEERS

M-1OF SHEET IN SET:

OF

SOUTH QUAD PARKING LOT STEAM AND CONDENSATE LINE REPLACEMENT STATE PROJECT NO.: H27-Z282

Carolina

WALLS, AND UTILITIES.

OTHERWISE ON DRAWINGS.

OF ONE INCH PER FIFTY FEET.

ON THE AS-BUILT DRAWINGS.

SITE AND PEDESTRIANS.

SYMBOL

⊱——s——

←—PC——

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CR ----

____ LG ___

7. COLD SPRING ALL STEAM LINES FIFTY (50) PERCENT.

CONTRACTOR SHALL MODIFY EXISTING PIPING, EQUIPMENT, ETC.

4. ALL VALVES AND SPECIALTIES SHALL BE LINE SIZE UNLESS INDICATED

5. ALL STEAM AND PUMPED CONDENSATE SHALL PITCH DOWN A MINIMUM

6. ALL OPENINGS THROUGH EXISTING STRUCTURES SHALL BE CORE DRILLED.

WHERE PIPING ENTERS MANHOLE CONSTRUCT ENTRY AS REQUIRED.

9. ALL PIPING AND FITTINGS IN MANHOLES TO BE INSULATED, SEE SPECIFICATIONS.

10. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM OWNER FOR INTERRUPTIONS AND CONNECTIONS TO EXISTING UTILITY SYSTEMS.

11. CONTRACTOR SHALL COORDINATE TREE AND LANDSCAPING REPLACEMENT WITH

REPLACED. CONTRACTOR IS RESPONSIBLE FOR SOD REPLACEMENT.

12. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL

13. CONTRACTOR SHALL CONTACT PALMETTO UTILITY PROTECTION SERVICES TO

14. CONSTRUCT TEMPORARY FENCING AROUND PROJECT AREA TO PROTECT THE

LEGEND

EXISTING PIPE TO BE REMOVED OR ABANDONED

NEW HIGH PRESSURE STEAM LINE

NEW PUMPED CONDENSATE LINE

EXISTING PUMPED CONDENSATE LINE

EXISTING HIGH PRESSURE STEAM LINE

EXISTING GRAVITY CONDENSATE LINE

EXISTING CHILLED WATER RETURN LINE

EXISTING CHILLED WATER SUPPLY LINE

EXISTING COMMUNICATIONS LINE

EXISTING SANITARY SEWER LINE

EXISTING STORM DRAIN LINE

EXISTING HIGH PRESSURE GAS LINE

EXISTING LOW PRESSURE GAS LINE

VELAN GATE VALVE, SEE SPECS

CONNECTION POINT OF NEW TO EXISTING

EXISTING HIGH VOLTAGE ELECTRICAL LINE

DESCRIPTION

EXISTING ELECTRICAL AND COMMUNICATIONS PRIMARY DUCT

USC. IN GENERAL USC WILL REPLACE SMALL TREES THAT ARE NOTED TO BE

LOCATE UTILITIES PRIOR TO DIGGING. INFORMATION OBTAINED FROM PALMETTO

UTILITY PROTECTION SERVICES AND DURING DIGGING SHALL BE INDICATED

ALL PIPES TO BE SLEEVED AND LINK SEALED TO MAKE

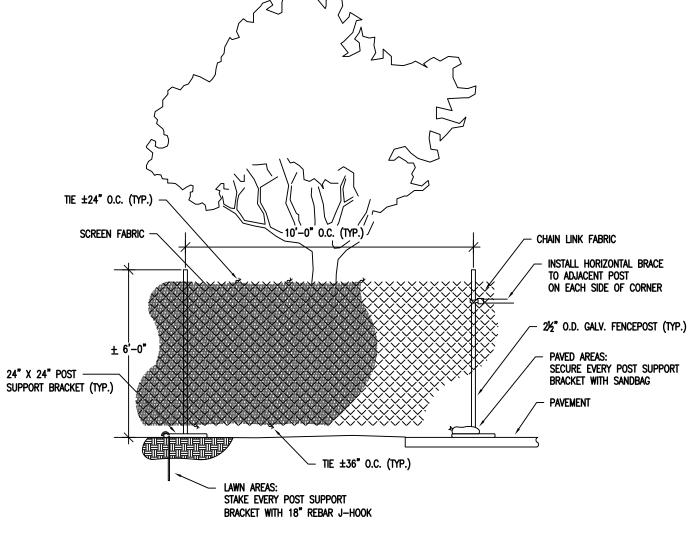
BRICK PAVERS TO MATCH THE EXISTING CONDITION.

SOUTH QUAD PARKING LOT STEAM AND CONDENSATE LINE REPLACEMENT STATE PROJECT NO.: H27-Z282

M-2

 OF

OF HEET IN SET:



1. TREE PROTECTION FENCING SHALL BE PLACED BETWEEN ALL EXISTING TREES AND AROUND PROJECT WORK AREA AS APPROVED BY USC. 2. SEE "USC SUPPLEMENTAL GENERAL CONDITIONS FOR CONSTRUCTION PROJECTS" FOR ADDITIONAL INFORMATION. 3. PROVIDE PROTECTION FENCE FOR ALL TREES TO REMAIN. 4. PROTECTION FENCING TO BE PLACED OUTSIDE OF DRIPLINE OF TREE CANOPY UNLESS OTHERWISE APPROVED BY USC PROJECT MANAGER. 5. A 4" LAYER OF HARDWOOD MULCH SHALL BE PLACED OVER TREE PROTECTION AREA. 6. PROTECTION FENCING SHALL BE IN PLACE AND HARDWOOD MULCH PLACED PRIOR TO BEGINNING CONSTRUCTION. 7. REQUESTS FOR PAYMENT SHALL NOT BE APPROVED UNTIL PROTECTION FENCING AND MULCH IS IN PLACE. 8. LOCATION OF THE PROTECTION FENCING SHALL BE MARKED BY USC ARBORIST AND APPROVED BY USC PROJECT MANAGER BEFORE INSTALLATION. WHERE CONSTRUCTION IS LIKELY TO OCCUR WITHIN 5' OF PROPOSED LOCATION OF PROTECTION FENCING, CONTRACTOR SHALL HAVE LIMITS OF CONSTRUCTION MARKED BY SURVEY BEFORE PROTECTION FENCING IS INSTALLED. 9. SCREEN FABRIC SHALL BE DARK GREEN 85% OPAQUE, POLYETHEYLENE KNIT MESH, UV STABILIZED WITH BURST STRENGTH OF AT LEAST 210 P.S.I.

WORK AREA SCREENING AND TREE PROTECTION FENCE PANEL DETAIL

NO SCALE

- TO BE LEFT LEVEL WITH EXISTING GRADE AND SODDED WITH GRASS TO MATCH EXISTING

1 FT. MINIMUM

ROCK FREE

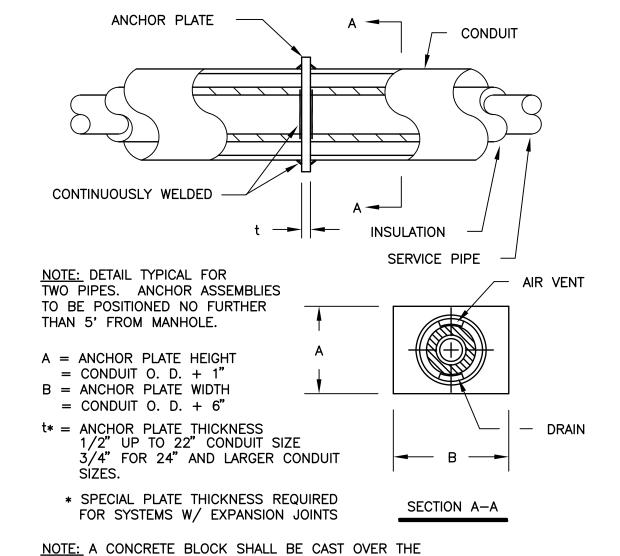
BACKFILL

6" MINIMUM SIDE TO SIDE

SAND BACKFILL

- PITTWRAF

JACKET



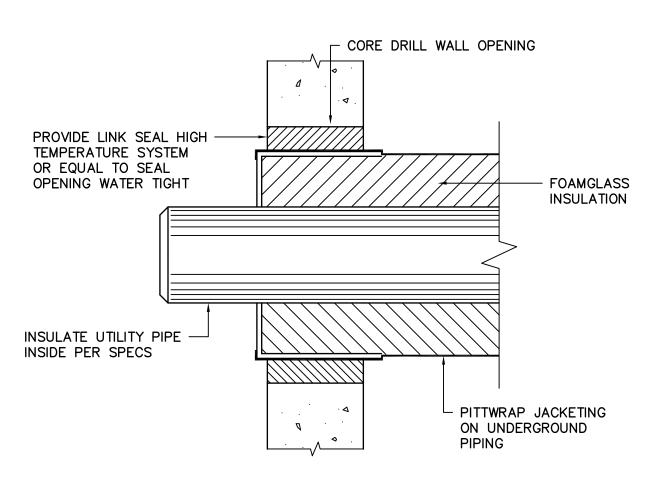
STANDARD ANCHOR ASSEMBLY

PLATE AND CONDUIT AND SHALL BE AT LEAST 30" IN

THE TOP AND BOTTOM OF ANCHOR PLATE.

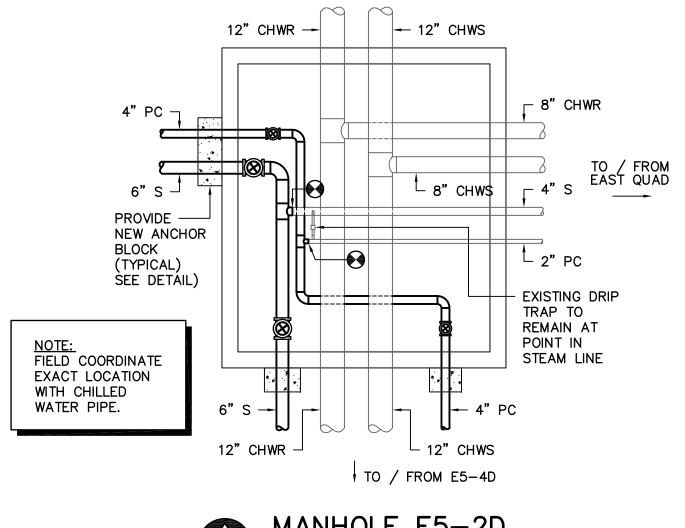
LENGTH AND SHALL EXTEND A MINIMUM OF 9" BEYOND

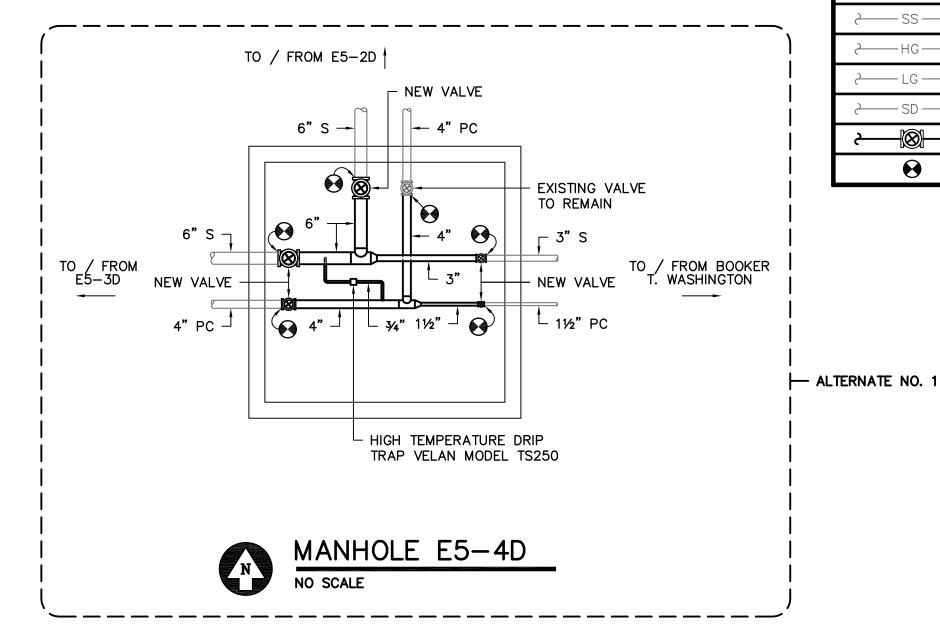
NO SCALE



UTILITY PIPE ENTRY DETAIL

NO SCALE





BACKFILL DETAIL NO SCALE

SWYGERT AND ASSOCIATES, LTD. NO. C00227

Swygert & Associates

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36" MIN -

6" MIN

FOAMGLASS INSULATION