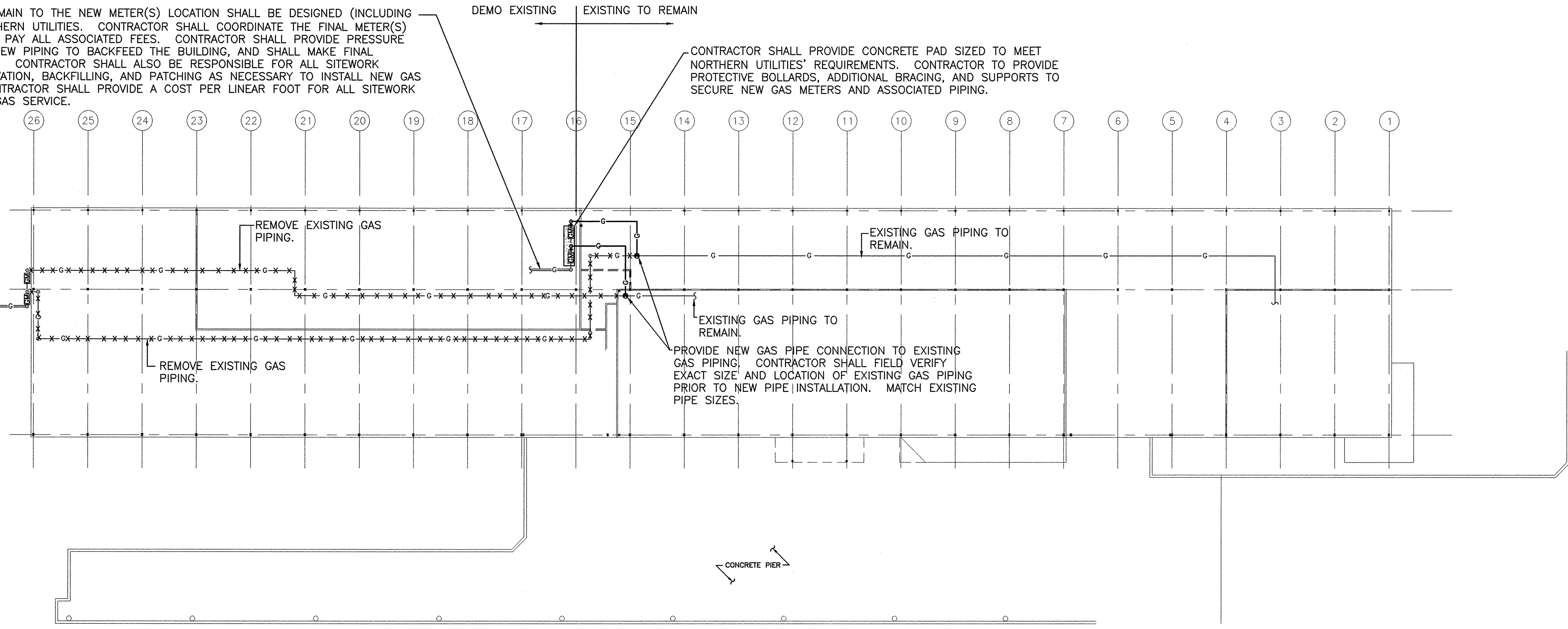


REVIEWED BY: CIVIL: UNDESIGNABLE ARCH: UNDESIGNABLE STRU: UNDESIGNABLE PLUM: UNDESIGNABLE FIRE: UNDESIGNABLE MECH: UNDESIGNABLE ELEC: UNDESIGNABLE

GAS SERVICE PIPING FROM THE UTILITY MAIN TO THE NEW METER(S) LOCATION SHALL BE DESIGNED (INCLUDING SITE ROUTING) AND INSTALLED BY NORTHERN UTILITIES. CONTRACTOR SHALL COORDINATE THE FINAL METER(S) LOCATION WITH NORTHERN UTILITIES AND PAY ALL ASSOCIATED FEES. CONTRACTOR SHALL PROVIDE PRESSURE REGULATORS, MAIN SHUT-OFF VALVES, NEW PIPING TO BACKFEED THE BUILDING, AND SHALL MAKE FINAL CONNECTIONS TO THE NEW GAS METERS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL SITEWORK INCLUDING GROUND SAW CUTTING, EXCAVATION, BACKFILLING, AND PATCHING AS NECESSARY TO INSTALL NEW GAS SERVICE. FOR BID PURPOSES, THE CONTRACTOR SHALL PROVIDE A COST PER LINEAR FOOT FOR ALL SITEWORK ASSOCIATED WITH INSTALLING THE NEW GAS SERVICE.

EXISTING GAS METERS AND GAS SERVICE TO BE REMOVED AND CAPPED BY NORTHERN UTILITIES GAS COMPANY. CONTRACTOR TO REMOVE EXISTING GAS PIPING THROUGHOUT BUILDING DEMOLITION AREA BACK TO GAS METER.



**LEGEND**

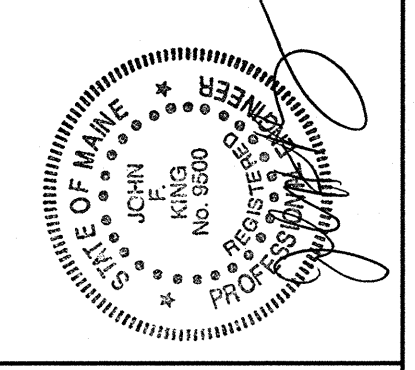
- CTE      CONNECT TO EXISTING
- DN      DOWN
- ETBR      EXISTING TO BE REMOVED
- ETR      EXISTING TO REMAIN GAS COCK

**PLUMBING FLOOR PLAN**

1/32"=1'-0"

**GENERAL PLUMBING NOTES**

1. GENERAL
  - A. BEFORE SUBMITTING BID, VISIT AND CAREFULLY EXAMINE SITE TO IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH CONDITIONS THAT ARE VISIBLE BY AN EXPERIENCED OBSERVER.
  - B. PERFORM WORK AND PROVIDE MATERIAL AND EQUIPMENT FOR SYSTEMS SHOWN ON DRAWINGS AND AS SPECIFIED IN THIS SECTION. COMPLETELY COORDINATE WORK OF THIS SECTION AND WORK OF OTHER SECTIONS AND PROVIDE A COMPLETE AND FULLY FUNCTIONAL INSTALLATION. DRAWINGS AND SPECIFICATIONS FORM COMPLEMENTARY REQUIREMENTS. PROVIDE WORK SPECIFIED AND NOT SHOWN, AND WORK SHOWN AND NOT SPECIFIED AS THOUGH EXPRESSLY REQUIRED BY BOTH.
  - C. PERFORM WORK STRICTLY AS REQUIRED BY RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES THAT HAVE LAWFUL JURISDICTION.
  - D. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES (UL) AND APPROVED BY AMSE AND AGA FOR INTENDED SERVICES.
2. GUARANTEE
  - A. GUARANTEE WORK OF THIS SECTION IN WRITING FOR ONE YEAR FROM DATE OF OWNERS ACCEPTANCE OF CERTIFICATE OF SUBSTANTIAL COMPLETION. REPAIR OR REPLACE DEFECTIVE MATERIALS, EQUIPMENT, WORKMANSHIP, AND INSTALLATION THAT DEVELOP WITHIN THIS PERIOD PROMPTLY AND TO OWNERS SATISFACTION AND CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE WITHIN CONTRACT PRICE.
3. SCOPE
  - A. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY ALL FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION AS REQUIRED TO PERFORM WORK IN ACCORDANCE WITH ALL LEGAL REQUIREMENTS AND WITH SPECIFICATIONS AND DRAWINGS.
4. SUBMITTALS
  - A. PROVIDE PRODUCT DATA FOR EQUIPMENT SPECIFIED OR SHOWN ON DRAWINGS PREPARED BY MANUFACTURERS, SUPPLIERS AND VENDORS.
    1. SUBMIT 7 CLEAR AND LEGIBLE COPIES WITH RESTING REPORT. PRODUCT DATA SHEETS SHALL BE SUBMITTED IN A SINGLE BOUND PACKAGE.
    2. CUT SHEETS OF THE FOLLOWING, BUT NOT LIMITED TO PIPE MATERIALS, PRESSURE REGULATING VALVES, ALL ASSOCIATED FITTINGS, HANGERS, ETC.
5. PIPE MATERIALS
  - A. SERVICE: GAS PIPE
    - PIPE MATERIAL: SCHEDULE 40 CARBON STEEL ASTM A53 GRADE B, A106 GRADE A, OR A120.
    - FITTINGS: SCREWED MALLEABLE IRON 125 PSI, BUTT WELD SCHEDULE 40, A234, 2 1/2" AND LARGER.
6. VALVES
  - A. GAS SERVICE USE PLUG/GAS COCK OR BALL VALVE. BOTTOM LOADED LOW PRESSURE STEM VALVE, RATED AR 600 PSI WOG. WATTS B-6000 OR EQUAL.
7. REGULATORS REQUIREMENTS
  - A. STRICTLY COMPLY WITH APPLICABLE CODES, REGULATIONS AND REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.
8. GAS SERVICE, METER VENTS AND PIPING
  - A. GAS METER AND PIPING TO METER FROM GAS MAIN WILL BE PROVIDED BY THE GAS COMPANY. PAY ALL CHARGES ASSOCIATED WITH GAS COMPANY INSTALLATION. GAS PIPING PROVIDED UNDER THIS SECTION (NOT BY GAS COMPANY) SHALL BEGIN AT BUILDING SIDE OF GAS METER. PIPING SHALL BE DONE BY LICENSED GAS FITTER (AS REQUIRED BY CODE).
9. HANGERS, ANCHORS, CLAMPS AND INSERTS
  - A. PROVIDE ADJUSTABLE CLEVIS HANGERS FOR PIPING 2" AND LARGER, AND CAST BRASS SPLIT-RING HINGED HANGERS FOR SMALLER PIPING. SUPPORT PIPING FROM BUILDING STRUCTURE TO MAINTAIN REQUIRED GRADE AND PITCH OF PIPE LINES, PREVENT VIBRATION, SECURE PIPING IN PLACE. SECURE HANGERS TO INSERTS WHERE PRACTICAL. HANGER RODS SHALL HAVE MACHINE THREADS. HANGERS SHALL COMPLY WITH LATEST SEISMIC REGULATIONS.
  - B. HANGER RODS SHALL BE CONNECTED TO BEAM CLAMP, UL-APPROVED CONCRETE INSERTS OR PHILLIPS OR APPROVED EQUAL. EXPANSION SHIELDS. RAMSET OR POWER DRIVEN INSERTS WILL NOT BE ALLOWED.
  - C. HANGER SPACING SHALL MEET REQUIREMENTS OF STATE AND LOCAL CODES.
  - D. PROVIDE CONCRETE PAD, ADDITIONAL, SUPPLEMENTAL SUPPORTS AND PROTECTIVE BOLLARDS AS NECESSARY TO THE SATISFACTION OF THE GAS COMPANY FOR THE METER INSTALLATION.
10. SLEEVES AND PENETRATIONS
  - A. SLEEVES SHALL MATCH THE FIRE RATING OF THE STRUCTURE PENETRATED.
  - B. PIPE SLEEVES THROUGH FIRE-RATED CONSTRUCTION SHALL BE SCHEDULE 40 STEEL. SLEEVES THROUGH PARTITIONS AND NON-FIRE-RATED CONSTRUCTION SHALL BE 26 GAUGE GALVANIZED STEEL WITH LOCK LONGITUDINAL SEAMS.
  - C. FIRE STOP PENETRATION SEALS IN FIRE-RATED CONSTRUCTION SHALL BE CERAMIC FIBER, MINERAL FIBER, OR SILICONE FOAM. PROVIDE MINERAL FIBER BOARD, MATTING OR PUTTY FOR DAMMING AND FORMING. FINISH SEALS FLUSH TO WALL SURFACE AND FILL GAPS WITH SILICONE ADHESIVE SEALANT CAULKING.
11. MATERIALS AND WORKMANSHIP
  - A. MAINTAIN MAXIMUM HEADROOM AT ALL TIMES. SO NOT RUN PIPES EXPOSED UNLESS SHOWN EXPOSED ON DRAWINGS. MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURERS RECOMMENDED BEST PRACTICE SO THAT COMPLETED INSTALLATION SHALL OPERATE SAFELY AND EFFICIENTLY.
12. TESTING
  - A. TEST AND ADJUST PLUMBING SYSTEMS AS REQUIRED BY ARCHITECT AND AUTHORITIES THAT HAVE JURISDICTION AND AS RECOMMENDED BY MANUFACTURERS OF MATERIALS AND EQUIPMENT.
  - B. TEST PLUMBING SYSTEMS UNDER PRESSURES SPECIFIED IN PLUMBING CODES.
13. CLEANING
  - A. CLEAN SYSTEMS THOROUGHLY BEFORE TESTING. PIPE, VALVES, AND FITTINGS SHALL BE FREE OF GREASE, METAL CUTTINGS, DIRT AND OTHER FOREIGN MATERIAL.



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PARTIAL DEMOLITION  
 OF INTERNATIONAL MARINE TERMINAL  
 COMMERCIAL STREET - PORTLAND, MAINE

**PLUMBING**

**PLAN, NOTES AND LEGEND**

PROJECT NO.:	17181
DESIGNED BY:	B.H.
DRAWN BY:	B.H.
CHK'D BY:	
DATE:	11/19/04
SCALE:	AS NOTED
SHEET NO.:	

**P1**