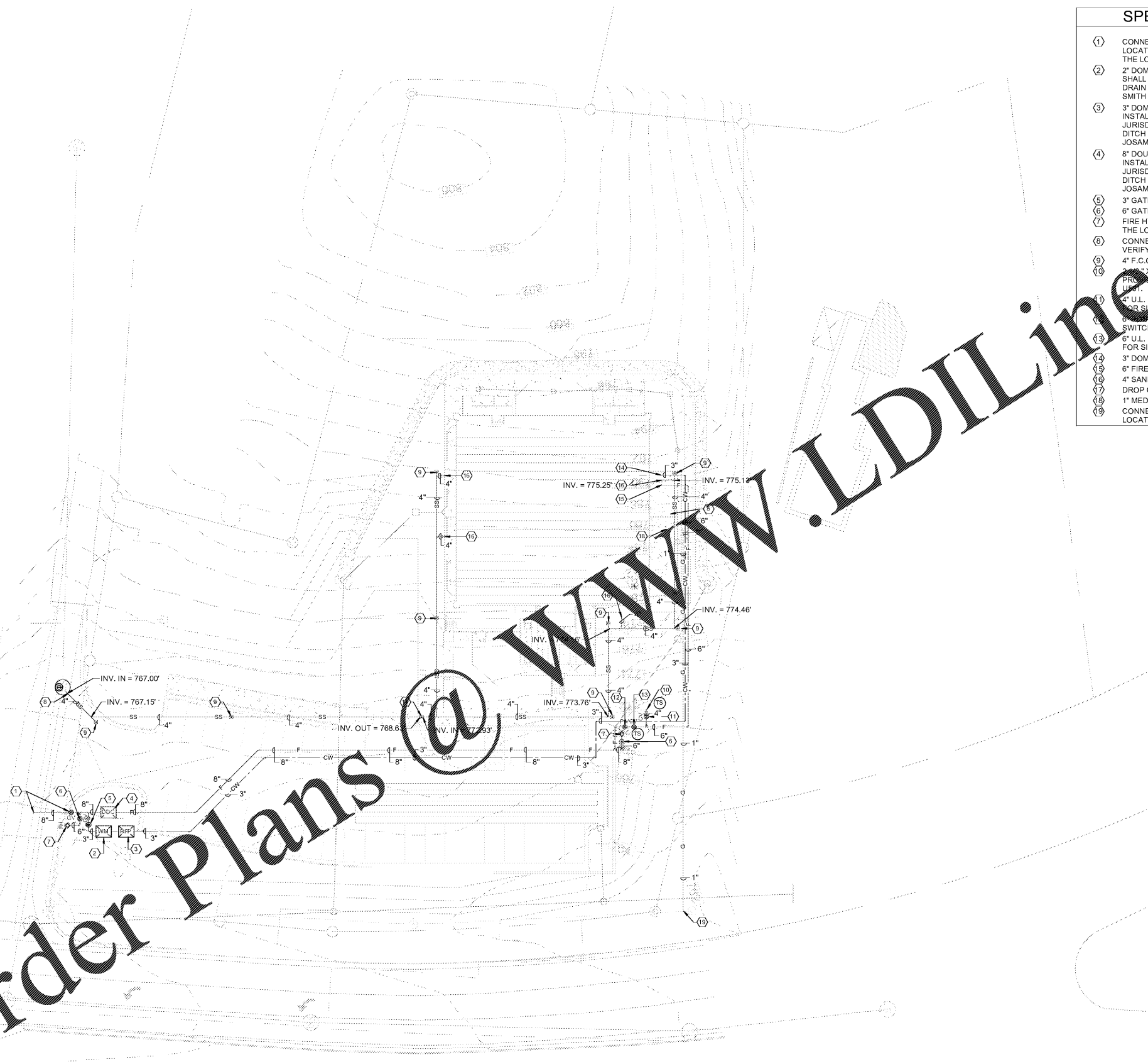


SPECIFIC PLUMBING PLAN NOTES - U101

- ① CONNECT NEW 8" WATER LINE TO EXISTING WATER MAIN. FIELD DETERMINE EXACT LOCATION AND SIZE OF EXISTING. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION. RE: DETAIL ON DWG. U501.
- ② 2" DOMESTIC WATER METER ASSEMBLY - RE: DETAIL ON DWG. U502. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION. EXTEND 4" DRAIN FROM METER VAULT TO NEAREST STORM DRAINAGE DITCH - PROVIDE WITH J.R. SMITH #7070 TERMINAL VALVE OR EQUAL BY WATTS, ZURN, JOSAM, MIFAB, OR WADE.
- ③ 3" DOMESTIC WATER BACKFLOW PREVENTER - RE: DETAIL ON DWG. U502. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION. EXTEND 4" DRAIN FROM METER VAULT TO NEAREST STORM DRAINAGE DITCH - PROVIDE WITH J.R. SMITH #7070 TERMINAL VALVE OR EQUAL BY WATTS, ZURN, JOSAM, MIFAB, OR WADE.
- ④ 6" DOUBLE DETECTOR CHECK VALVE ASSEMBLY - RE: DETAIL ON DWG. U502. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION. EXTEND 6" DRAIN FROM METER VAULT TO NEAREST STORM DRAINAGE DITCH - PROVIDE WITH J.R. SMITH #7070 TERMINAL VALVE OR EQUAL BY WATTS, ZURN, JOSAM, MIFAB, OR WADE.
- ⑤ 3" GATE VALVE IN CAST IRON VALVE BOX - RE: DETAIL ON DWG. U502.
- ⑥ 6" GATE VALVE IN CAST IRON VALVE BOX - RE: DETAIL ON DWG. U502.
- ⑦ FIRE HYDRANT ASSEMBLY - RE: DETAILS ON DWG. U501. PROVIDE ALL ITEMS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- ⑧ CONNECT NEW 8" SAN. LINES TO EXISTING SANITARY MANHOLE - I.E. (6" IN) = 767.00'-FIELD VERIFY EXACT LOCATION AND DEPTHS OF EXISTING SANITARY MANHOLE.
- ⑨ 4" F.C.O.-2 - RE: SPEC'S. AND DETAIL ON DWG. U501.
- ⑩ 2" X 2 1/2" X 1/2" X 1/2" DEPARTMENT SIAMESE CONNECTION WITH CAPS AND CHAINS. PROVIDE ALL ITEMS NECESSARY TO PREVENT FREEZING - RE: DETAIL ON DWG. U501.
- ⑪ 4" U.L. LISTED SWING CHECK VALVE IN CAST IRON VALVE BOX - RE: DETAILS ON DWG. U501 OR SIMILAR INSTALLATION.
- ⑫ 6" INDICATOR VALVE WITH TAMPER SWITCH - RE: SPEC'S. - INTERLOCK TAMPER SWITCH WITH BUILDING FIRE ALARM SYSTEM (TROUBLE SIGNAL ONLY).
- ⑬ 6" U.L. LISTED SWING CHECK VALVE IN CAST IRON VALVE BOX - RE: DETAILS ON DWG. U501 OR SIMILAR INSTALLATION.
- ⑭ 3" DOMESTIC WATER LINE - RE: 1/P101 FOR CONTINUATION.
- ⑮ 6" FIRE PROTECTION LINE - RE: 1/P101 FOR CONTINUATION.
- ⑯ 4" SANITARY SEWER LINE - RE: 1/P101 FOR CONTINUATION.
- ⑰ DROP CLEANOUT - 4" F.C.O.-2 - RE: SPEC'S. AND DETAIL ON DWG. U502.
- ⑱ 1" MEDIUM PRESSURE (5 PSI) GAS LINE - RE: 1/P501 FOR CONTINUATION.
- ⑲ CONNECT NEW 1" GAS LINE TO EXISTING GAS MAIN - FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING GAS MAIN.

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GAS LOAD SCHEDULE - C.F.H.					
	BUILDING HEATING	WATER HEATING	COOKING	OTHER (DRYER)	TOTALS
NEW	80.0	0	0	0	80.0
EXISTING BEING REMOVED	0	0	0	0	0
EXISTING TO REMAIN	0	0	0	0	0
FUTURE	0	0	0	0	0
TOTAL AT METER	80.0	0	0	0	80.0
INCREASE (DECREASE) TO EXISTING SYSTEM	0	0	0	0	0

PIPE SIZES INDICATED ON DRAWINGS CALCULATED USING THE FOLLOWING:
 $D = Q^{0.381} \times [19.17 \times ((P_1 - P_2) \times (C \times L))^{0.25}]$
 (GAS FORMULA ABOVE FROM NFPA-54 FOR GAS PRESSURES LESS THAN 1.5 PSI)

WHERE:
 P₂ = DOWNSTREAM PRESSURE, IN INCHES WATER COLUMN
 P₁ = UPSTREAM PRESSURE, IN INCHES WATER COLUMN
 C = 0.6094 FOR NATURAL GAS
 L = EQUIVALENT LENGTH OF PIPE, IN FEET
 Q = GAS FLOW AMOUNT, IN CUBIC FEET PER HOUR (C.F.H.) AT 60°F AND 30" MERCURY COLUMN
 D = INSIDE PIPE DIAMETER, IN INCHES

REFER TO THE PLANS FOR GAS DELIVERY PRESSURE TO BUILDING.

① PLUMBING SITE UTILITY PLAN
1" = 20'-0"

CAUTION
 THE UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. OTHER UTILITIES MAY BE PRESENT BUT NOT SHOWN ON THESE DRAWINGS. THE ARCHITECT AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED TO A "LIKE NEW" CONDITION. THE CONTRACTOR SHALL BEAR THE SOLE RESPONSIBILITY OF ANY LOSSES THAT OCCUR FROM DAMAGES TO THE EXISTING UTILITIES.



② Gas Load Schedule
NTS

SA&E PROJECT NUMBER	01-615-057
BID PACKAGE / PHASING	BP-1
ISSUED FOR CONSTRUCTION	10/15/2019
REVISIONS	
R #	Doc # Date

Southern AE
 7951 Tricon Circle
 Austell, Ga 30168
 (770) 819-7777
 architects & engineers

ADD ALTERNATE #1
 BOARD OF EDUCATION OFFICE FOR:
HEARD COUNTY SCHOOLS
 4647 PEA RIDGE ROAD, FRANKLIN, GA 30217
 HEARD COUNTY SCHOOL SYSTEM
 FRANKLIN, GEORGIA

PLUMBING SITE UTILITY PLAN

DRAWING NUMBER
U101