

LEGEND

- 4" PRECAST MANHOLE
- SANITARY SEWER CLEANOUT
- ⊗ 8" PVC SANITARY SEWER (SDR 35)
- ⊗ 45° VERTICAL BEND
- ⊗ CLEAN OUT, X" SAN. SWR LAT. 5' OFF BLDG.
- ⊗ COMBINED WATER SVC., X" GV., X" PLUG, 5' OFF BLDG.
- WATER METER
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY
- FIRE DEPARTMENT CONNECTION
- WATER REDUCER
- WATER GATE VALVE
- TEE WITH THRUST BLOCKING
- BLOW OFF WITH GV AND REDUCER
- PROPOSED FIRE HYDRANT
- WATER MAIN AND SERVICES
- TRENCH RESURFACING
- RIGHT-OF-WAY
- SETBACK
- XX" BEND W/ THRUST BLOCKING

EX. FIRE HYDRANT #1 FLOW DATA
 EX HYDRANT #1 HYDRANT NUMBER: 192407
 HYDRANT LOCATION- 5002 LANGWELL LANE
 DATE REPORT # STAT. RSD. DSCHG @20psi
 7/2/14 90 78 1300 3369

CMU Tracking Number 600-13-603

SIZE (INCHES)	MATERIAL	LENGTH
2"	PVC	33
6"	PVC	492-486
8"	PVC	1,712
TOTAL LF		2,237-2,231

Issuing Project Permit Number PWP-1114-37 Date 11/19/14
 Signing Official [Signature] Title Eng. Ass't.

UTILITY NOTES

- NCDNR PRIVATE WATER - PERMIT NO. PWP-XXXX-XX
- NCDNR PRIVATE SANITARY SEWER - PERMIT NO. WQ00XXXX

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVED UTILITY PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

ALL PROPOSED UTILITIES SHALL BE CONSTRUCTED, INSPECTED, TESTED AND CERTIFIED IN ACCORDANCE WITH AGENCY SPECIFICATIONS.

ALL WATER AND SEWER CONNECTIONS TO PUBLIC MAIN TO BE MADE BY CMUD

BACKFLOW PREVENTION NOTES:

1. INSULATED ENCLOSURE SHALL BE PROVIDED WITH A HEATER TO SUSTAIN A MIN. TEMP. OF 40°. CONTRACTOR RESPONSIBLE FOR COORDINATING AND HAVING ELECTRICAL SERVICE BROUGHT TO BACKFLOW PREVENTION DEVICE FOR THE HEATER.
2. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS CMUD REQUIRED BACKFLOW PREVENTER.
3. EACH CMUD REQUIRED BACKFLOW PREVENTER IS REQUIRED TO BE TESTED BY A CMUD APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE. SEE CMUD SPECIFICATIONS FOR LIST OF APPROVED CERTIFIED TESTERS.
4. CONTRACTOR SHALL INSTALL TAMPER SWITCHES ON GATE VALVES REDUCED PRESSURE BACKFLOW ASSEMBLIES THAT SERVE FIRE SPRINKLER SYSTEMS.
5. NO PLASTIC PIPE WITHIN 5 FEET OF EITHER END OF BACKFLOW PREVENTERS.
6. NO PERMANENT INSULATION SHALL BE INSTALLED ON THE BP ASSEMBLY.
7. FIRE DEPARTMENT REQUIRES TAMPER SWITCHES ON BP'S SERVING SPRINKLERS. SWITCHES TO BE WIRED TO MAIN ALARM PANEL.

APPROVED FOR CONSTRUCTION PRIVATE WATER ONLY
 CHARLOTTE-MECKLENBURG UTILITY DEPT.
 11-18-14 DATE

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CONSTRUCTION DOCUMENTS

THE ENGINEERS
 11/07/14
 L. MOBLE

SCALE: 1" = 50'

PROJECT #: 041-180
 DRAWN BY: DK
 CHECKED BY: MV

OVERALL UTILITY PLAN

JUNE 30, 2014

REVISIONS:
 1. 09.02.14 - PER REVIEW COMMENTS
 2. 10.15.14 - PER CITY AND COUNTY REVIEW COMMENTS
 3. 10.17.14 - PER FIRE FLOW REQUIREMENTS
 4. 10.20.14 - ADDED MH-6
 5. 10.23.14 PER CFD COMMENTS
 6. 11.07.14 PER CMU COMMENTS

C5.00