CONTRACTOR TO FIELD LOCATE EX. UTILITY LINES.
1-3/4" WATER SERVICE

CONTRACTOR TO MAINTAIN AT LEAST 1 FOOT VERTICAL SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED WATER MAIN.

NOTE: CONTRACTOR TO FIELD LOCATE EX. UTILITY LINES. CONTRACTOR TO MAINTAIN AND PROPOSED WATER MAIN.

AT LEAST 1 FOOT VERTICAL SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED WATER MAIN.

NOTE: CONTRACTOR TO FIELD LOCATE EX. UTILITY LINES. CONTRACTOR TO MAINTAIN AT LEAST 1 FOOT VERTICAL SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED WATER MAIN.

STORM SEWER CROSSING
8" CLAY SEWER INV ELEV:412.94
GROUND ELEV:411.64
CONTRACTOR TO FIELD LOCATE EX. UTILITY LINES. CONTRACTOR TO PROTECT PROPOSED WATER MAIN FROM EXISTING 8" SLIP-LINED CLAY SEWER PIPE WITH 20 LF OF STEEL CASING PIPE CENTERED ON THE CROSSING, PLUG ENDS. END CAP WEST OF THRUST BLOCK.

6" DI WATER MAIN TO BE ABANDONED IN PLACE. PLUG ENDS. END CAP EAST OF TAPPING SLEEVE WITH THRUST BLOCK.

1-F.H. ASSEMBLY
15.66' OF 6" DI WATER LINE
STORM SEWER CROSSING
Sanitary Sewer Crossing
6" DI WATER MAIN INV ELEV:611.78
GROUND ELEV:610.48
OFF: 6.81' L
STA:9+89.32
P.O. BOX 308
VIRGINIA ST.
WATER MAIN REPLACEMENT PLAN
PROJECT #: 2017-011

MATCH LINE STA:10+00

CONTRACTOR TO FIELD LOCATE EX. UTILITY LINES. CONTRACTOR TO MAINTAIN AT LEAST 1 FOOT VERTICAL SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED WATER MAIN.

NOTE: CONTRACTOR TO FIELD LOCATE EX. UTILITY LINES. CONTRACTOR TO PROTECT PROPOSED WATER MAIN FROM EXISTING 8" SLIP-LINED CLAY SEWER PIPE WITH 20 LF OF STEEL CASING PIPE CENTERED ON THE CROSSING, PLUG ENDS.

CONTRACTOR TO FIELD LOCATE EX. UTILITY LINES. CONTRACTOR TO MAINTAIN AT LEAST 1 FOOT VERTICAL SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED WATER MAIN.

NOTE: CONTRACTOR TO FIELD LOCATE EX. UTILITY LINES. CONTRACTOR TO PROTECT PROPOSED WATER MAIN FROM EXISTING 8" SLIP-LINED CLAY SEWER PIPE WITH 20 LF OF STEEL CASING PIPE CENTERED ON THE CROSSING, PLUG ENDS.
VIRGINIA ST. WATER MAIN REPLACEMENT PLAN
PROJECT # : 2017-011

PREPARED BY
ENGINEERING DEPARTMENT
CITY OF CONCORD
P.O. BOX 308
CONCORD N.C. 28026
(704) 920-5425

NOTE: CONTRACTOR TO FIELD LOCATE EXISTING UTILITIES AND PROPOSED WATER MAINS AND MAINTAIN MINIMUM VERTICAL SEPARATION OF AT LEAST 1 FOOT BETWEEN EXISTING UTILITIES AND PROPOSED WATER MAINS.

CAUTION: NATURAL GAS CROSSING
NOTE: CONTRACTOR TO FIELD LOCATE EXISTING GAS LINES AND MAINTAIN MINIMUM VERTICAL SEPARATION BETWEEN EXISTING GAS LINE AND PROPOSED WATER MAINS.

NOTE: CONTRACTOR TO OPEN CUT ROADWAY TRENCH DIM. 15'x4'x4'

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:16+00

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:16+10.28

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:16+48.61

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:16+54.74

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:17+10.08

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:17+17.84

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:17+53.45

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:18+27.71

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:18+73.93

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:18+98.21

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:19+58.38

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:17+87.68

PROPOSED 531' OF 6" DIAMETER WATER MAIN
STA:16+00 - STA:21+41

CAUTION: NATURAL GAS CROSSING
NOTE: CONTRACTOR TO FIELD LOCATE EXISTING GAS LINES AND MAINTAIN MINIMUM VERTICAL SEPARATION BETWEEN EXISTING GAS LINE AND PROPOSED WATER MAINS.

PROPOSED 1-6" TAPPING SLEEVE AND VALVE ASSEMBLY
STA:21+31.37

PROPOSED 1-11° BEND
STA:18+16.69

PROPOSED 1-11° BEND
STA:16+10.28

PROPOSED 1-11° BEND
STA:17+26.73

PROPOSED 1-11° BEND
STA:16+07.13

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:20+62.53

PROPOSED 1-3/4" WATER SERVICE WITH METER
STA:16+07.13

PROPOSED 1-6" CAST IRON WATER MAIN TO BE ABANDONED IN PLACE, PLUG ENDS END CAP WITH THRUST BLOCK

CONTRACTOR TO FIELD LOCATE EXISTING GAS LINES AND MAINTAIN MINIMUM VERTICAL SEPARATION BETWEEN EXISTING GAS LINES AND PROPOSED WATER MAINS.

PROPOSED POLYETHYLENE TUBE ENCASMENT
BEGIN: STA:18+47.79
END: STA:21+31.37

SEE WATER MAIN CONSTRUCTION NOTES ON SHEET 6 OF 8

EX. WATER VALVE TO BE TURNED OFF AND ABANDONED. SEE NOTE 11

PROPOSED 1-6" GALVANIZED VALVE
STA:17+41.32

PROPOSED 1-6" GALVANIZED VALVE
STA:17+87.68
1. RESTRAINING MEASURES SHALL BE PROVIDED WHEN REQUIRED BY WSACC TECHNICAL STANDARDS AND CITY DETAILS. ENCASED DUCTILE IRON WATERLINE SHOULD BE RESTRAINED.

2. WATER LINES TO BE INSTALLED USING WSACC CLASS D EMBEDMENT.

3. AT LEAST 36-IN OF GROUND COVER IS TO BE MAINTAINED OVER THE WATER LINES.

4. THE PROPOSED WATER MAIN VALVE RIMS ARE TO BE INSTALLED AT FINAL GRADE.

5. REFER TO CITY OF CONCORD DETAIL FOR UTILITY CROSSING REQUIREMENTS.

6. THE CONTRACTOR SHALL RE-ESTABLISH ALL WATER SERVICE CONNECTIONS IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE NORTH CAROLINA PLUMBING CODE AND CABARRUS COUNTY REGULATIONS, INCLUDING SHUT-OFF VALVES, PRESSURE REDUCING VALVES AND ALL ASSOCIATED APPURTENANCES AND PERMITS.

7. NEW PRIVATE SERVICE FOR THE NEW VAULT TO BE CONNECTED TO EXISTING BACKFLOW PREVENTOR SERVICE LINE AND THE BACKFLOW TESTED BY A CERTIFIED BACKFLOW TESTER TO ENSURE COMPLIANCE.

8. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE DURATION OF ANY WATER SUPPLY DISRUPTION AND/OR LOSS TO THE EXISTING CITY OF CONCORD CUSTOMERS. THE CONTRACTOR MUST NOTIFY THE ASSIGNED CITY OF CONCORD CONSTRUCTION INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF ANY SCHEDULED WATER SERVICE LOSS OR DISRUPTION, AND PROVIDE WRITTEN NOTIFICATION ON A CITY APPROVED FORM TO EACH CITY OF CONCORD CUSTOMER THAT SPECIFIES THE DATE AND DURATION OF ANY SCHEDULED WATER SERVICE LOSS OR DISRUPTION AND INCLUDE THE APPLICABLE CITY CONTACT NUMBERS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POTABLE WATER SUPPLIES TO ANY CUSTOMER UPON REQUEST BY THE CITY AND/OR WHEN THE DURATION OF THE WATER SERVICE LOSS OR DISRUPTION EXCEEDS 4 HOURS.

10. EXISTING WATERMAIN TO BE ABANDONED IN PLACE BY PLUGGING ENDS WITH FLOWABLE FILL. EXISTING VALVE BOXES AND METER BOXES ARE TO BE DECOMMISSIONED AND TO BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE CITY STANDARDS. ALL VOIDS ARE TO BE BACKFILLED WITH THE APPROPRIATE MATERIALS AND STABILIZED.

11. ABANDON EXISTING VALVES BY REMOVING VALVE PROTECTION RIM AND COVER, AND FILLING VOID WITH FLOWABLE FILL.

12. ABANDON EXISTING WATER VAULT IN PLACE. REMOVE EXISTING WATER METER, FILL WITH SUITABLE SOIL AND STABILIZE WITH A PERMANENT GROUND COVER.

13. ON CORBAN AVE. SE, USE "NCDOT TYPICAL UTILITY CUT REPLACEMENT DETAIL" FOR PERMANENT PAVEMENT REPAIRS OUTSIDE THE LIMITS OF THE NEW PAVEMENT PROJECT. FOR TEMPORARY PAVEMENT REPAIRS OUTSIDE THE LIMITS OF THE NEW PAVEMENT PROJECT, TEMPORARY PAVEMENT REPAIRS SHALL USE THE LIMITS OF THE NEW PAVEMENT PROJECT AS A REFERENCE TO DETERMINE THE SCOPE OF WORK. THE TEMPORARY PAVEMENT REPAIRS SHOULD BE DESIGNED TO MATCH THE TEMPORARY PAVEMENT SPECIFICATIONS AS SHOWN IN THE DETAIL.


15. ALL EXISTING UTILITY LOCATIONS TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.

16. CONTRACTOR TO INSTALL INLET PROTECTION DEVICES FOR SEDIMENT EROSION CONTROL.
CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN EROSION AND SEDIMENTATION PERMIT FROM THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES FOR ANY NEW OFF-SITE BORROW AREA. ANY OFF-SITE BORROW AND WASTE REQUIRED FOR THIS PROJECT MUST COME FROM AN APPROVED EROSION CONTROL PLAN SITE, A SITE REGULATED UNDER THE MINING ACT OF 1971, OR A LANDFILL REGULATED BY THE DIVISION OF SOLID WASTE MANAGEMENT. DEBRIS FROM DEMOLITION ACTIVITIES SHOULD BE DISPOSED OF AT AN APPROVED FACILITY.