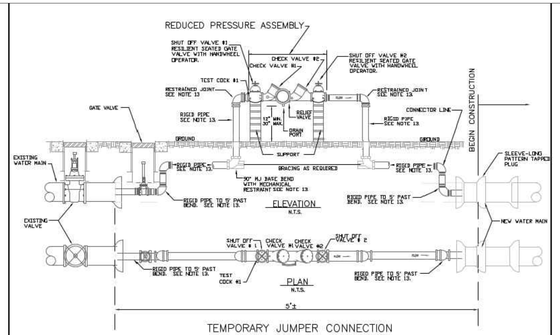


TEMPORARY JUMPER CONNECTION

NOTES:
1. INSTALL CONNECTOR LINE FROM EXISTING BLOW-OFF ASSEMBLY TO NEW MAIN FOR FILLING, TESTING, AND STERILIZING NEW MAIN.
2. CONNECTOR LINE TO BE ASSEMBLED WITH CHECK VALVE AND TO BE OPERATED INDEPENDENT OF EXISTING MAIN.
3. BLOCKING ON EXISTING LINE NOT TO BE DISTURBED.
4. FINAL CONNECTION TO EXISTING MAIN TO BE MADE ONLY AFTER TOTAL PROJECT HAS BEEN ACCEPTED BY THE CITY OF CONCORD INSPECTIONS DEPARTMENT.
5. VALVES ON EXISTING SYSTEM TO BE OPERATED BY THE CITY OF CONCORD'S WATER RESOURCES DEPARTMENT STAFF ONLY.
6. ONLY ONE CONNECTION WILL BE ALLOWED BETWEEN THE EXISTING SYSTEM AND THE NEW CONSTRUCTION UNTIL TESTING AND DISINFECTION IS COMPLETE.
7. WATER IN REASONABLE AMOUNTS REQUIRED FOR AN IN CONNECTION WITH THE WORK TO BE PERFORMED WILL BE FURNISHED AT LOCATIONS AS APPROVED BY OWNER AT RATES SPECIFIED BY OWNER AND IN ACCORDANCE WITH THE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND POLICIES.
8. CONTRACTOR SHALL FURNISH NECESSARY PIPE, HOSE, REDUCED PRESSURE ZONE BACK FLOW DEVICE, AS APPROVED BY THE OWNER AND METER APPROVED BY OWNER, NOZZLES, AND TOOLS AND SHALL PERFORM ALL NECESSARY LABOR.
9. CONTRACTOR SHALL ENSURE THAT THE EQUIPMENT HAS BEEN INSPECTED BY AND APPROVED BY THE OWNER AND HAS OBTAINED THE APPLICABLE PERMITS AND CERTIFICATIONS PRIOR TO WATER SYSTEM CONNECTION.
10. CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER WHO WILL FIX THE LOCATION, TIME, RATE, AND DURATION OF EACH WITHDRAWAL FROM THE DISTRIBUTION SYSTEM) AS TO THE AMOUNT OF WATER REQUIRED AND THE TIME WHEN THE WATER WILL BE NEEDED. UNNECESSARY WASTE OF WATER WILL NOT BE TOLERATED. IF CONTRACTOR WASTES WATER, AS DETERMINED BY OWNER, CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL REMAINING WATER NECESSARY FOR COMPLETION OF THE WORK MEASURED THROUGH A METER AND AT THE CONTRACTOR'S EXPENSE.
11. SPECIAL HYDRANT WRENCHES SHALL BE USED FOR OPENING AND CLOSING FIRE HYDRANTS. IN NO CASE SHALL PIPE WRENCHES BE USED FOR THIS PURPOSE.
12. 6" TO 10" RIP SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S). SUPPORT PEDESTALS SHALL NOT BLOCK RELIEF VALVE OR DRAIN PORT.
13. 2" TO 3" K-COPPER PIPE, 4" TO 10" DIP. RESTRAINED JOINTS SHALL BE MEGA LUG RESTRAINTS OR APPROVED EQUAL.
14. TEST COCK SHALL BE UPSTREAM OF SHUT-OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.

WATER MAIN SIZE	MIN. BACKFLOW DEVICE SIZE	MIN. END OF LINE BLOWOFF
6" OR 8"	2"	2"
12"	4"	2.5"
16"	6"	4"
24"	8"	6"

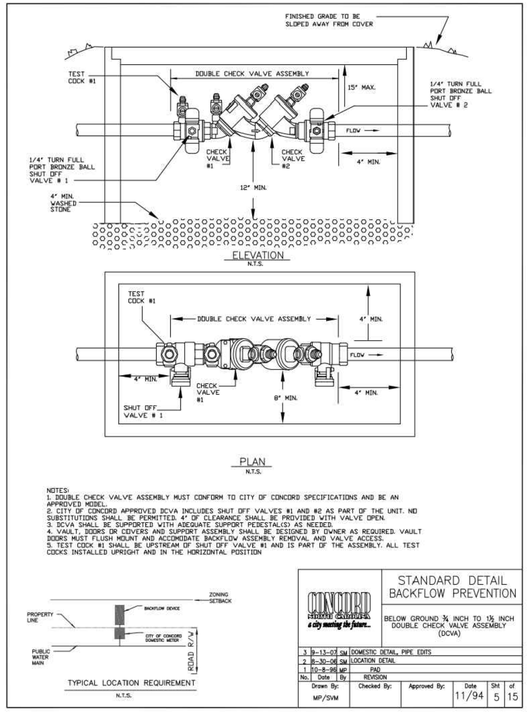
Concord — CITY OF CONCORD STANDARD DETAIL TEMPORARY JUMPER CONNECTION

No.	Date	By	REVISION

Drawn By:	Checked By:	Approved By:	Date	Sht	of
SVM	PK	MSH	05/11	1	1

1 TEMPORARY JUMPER CONNECTION NTS

CITY OF CONCORD TECHNICAL STANDARDS MANUAL



NOTES:
1. DOUBLE CHECK VALVE ASSEMBLY MUST CONFORM TO CITY OF CONCORD SPECIFICATIONS AND BE AN APPROVED MODEL.
2. CITY OF CONCORD APPROVED DCVA INCLUDES SHUT OFF VALVES #1 AND #2 AS PART OF THE UNIT. NO SUBSTITUTIONS SHALL BE PERMITTED. 4" OF CLEARANCE SHALL BE PROVIDED WITH VALVE OPEN.
3. DCVA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S) AS NEEDED.
4. VAULT, DOORS OR COVERS AND SUPPORT ASSEMBLY SHALL BE DESIGNED BY OWNER AS REQUIRED. VAULT DOORS MUST FLUSH MOUNT AND ACCOMODATE BACKFLOW ASSEMBLY REMOVAL AND VALVE ACCESS.
5. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE ASSEMBLY. ALL TEST COCKS INSTALLED UPRIGHT AND IN THE HORIZONTAL POSITION

TYPICAL LOCATION REQUIREMENT
N.T.S.

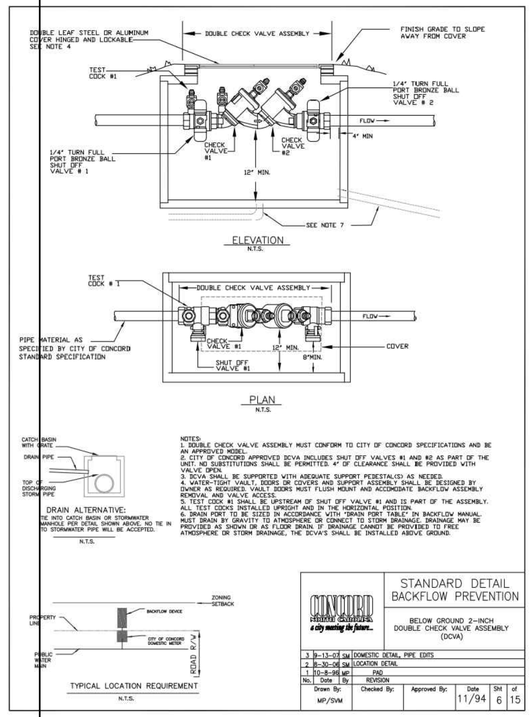
CITY OF CONCORD — STANDARD DETAIL BACKFLOW PREVENTION — BELOW GROUND ¾ INCH TO 1½ INCH DOUBLE CHECK VALVE ASSEMBLY (DCVA)

No.	Date	By	REVISION
3	9-13-07	SM	DOMESTIC DETAIL, PIPE EDITS
2	6-30-06	SM	LOCATION DETAIL
1	10-8-96	MP	PAD

Drawn By:	Checked By:	Approved By:	Date	Sht	of
MP/SVM			11/94	5	15

2 DOUBLE CHECK VALVE ASSEMBLY (DVCA) NTS

CITY OF CONCORD TECHNICAL STANDARDS MANUAL



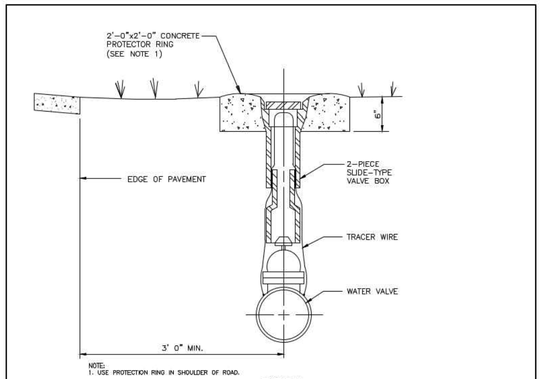
NOTES:
1. DOUBLE CHECK VALVE ASSEMBLY MUST CONFORM TO CITY OF CONCORD SPECIFICATIONS AND BE AN APPROVED MODEL.
2. CITY OF CONCORD APPROVED DCVA INCLUDES SHUT OFF VALVES #1 AND #2 AS PART OF THE UNIT. NO SUBSTITUTIONS SHALL BE PERMITTED. 4" OF CLEARANCE SHALL BE PROVIDED WITH VALVE OPEN.
3. DCVA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S) AS NEEDED.
4. WATER-TIGHT VAULT, DOORS OR COVERS AND SUPPORT ASSEMBLY SHALL BE DESIGNED BY OWNER AS REQUIRED. VAULT DOORS MUST FLUSH MOUNT AND ACCOMODATE BACKFLOW ASSEMBLY REMOVAL AND VALVE ACCESS.
5. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE ASSEMBLY. ALL TEST COCKS INSTALLED UPRIGHT AND IN THE HORIZONTAL POSITION.
6. DRAIN PORT TO BE SIZED IN ACCORDANCE WITH "DRAIN PORT TABLE" IN BACKFLOW MANUAL. MUST DRAIN BY GRAVITY TO ATMOSPHERE OR CONNECT TO STORM DRAINAGE. DRAINAGE MAY BE PROVIDED AS SHOWN OR AS FLOOR DRAIN. IF DRAINAGE CANNOT BE PROVIDED TO FREE ATMOSPHERE OR STORM DRAINAGE, THE DCVA'S SHALL BE INSTALLED ABOVE GROUND.

TYPICAL LOCATION REQUIREMENT
N.T.S.

CITY OF CONCORD — STANDARD DETAIL BACKFLOW PREVENTION — BELOW GROUND 2-INCH DOUBLE CHECK VALVE ASSEMBLY (DCVA)

No.	Date	By	REVISION
3	9-13-07	SM	DOMESTIC DETAIL, PIPE EDITS
2	6-30-06	SM	LOCATION DETAIL
1	10-8-96	MP	PAD

Drawn By:	Checked By:	Approved By:	Date	Sht	of
MP/SVM			11/94	6	15



NOTE:
1. USE PROTECTION RING IN SHOULDER OF ROAD.

TYPICAL
VALVE BOX PROTECTION
SCALE: NONE

NOTES:
1. EACH BURIED VALVE TO A DEPTH OF 4 FEET OR LESS SHALL BE PROVIDED WITH A CHARLOTTE FOUNDRY VALVE BOX, OR EQUAL. VALVE BOXES SHALL BE CAST IRON, EXTENSION SLEEVE TYPE, FOR THE DEPTH OF COVER REQUIRED BY THE DRAWINGS. NOT MORE THAN ONE EXTENSION WILL BE ALLOWED WITH EACH SLIDE TYPE VALVE BOX. VALVE BOXES SHALL BE NOT LESS THAN 5 INCHES IN INSIDE DIAMETER, SHALL HAVE A MINIMUM THICKNESS AT ANY POINT OF 3/16 INCH, AND SHALL BE PROVIDED WITH SUITABLE CAST IRON BASES AND COVERS.
2. EACH VALVE BURIED TO A DEPTH GREATER THAN 4 FEET SHALL BE PROVIDED WITH A VALVE BOX CONSISTING OF A CAST IRON COVER AND A 6 INCH DUCTILE IRON PIPE SECTION. THE COVER SHALL BE CLAY & BAILEY "NO. 2193" OR TYLER "SERIES 6890-A". THE PIPE SHAFT SHALL BE SIZED TO EXTEND FROM THE VALVE TO 5 INCHES INSIDE THE VALVE BOX COVER.
3. ALL PARTS OF VALVE BOXES, BASES, AND COVERS SHALL BE SHOP COATED BY DIPPING IN ASPHALT VARNISH.
4. VALVES AND VALVE BOXES SHALL BE SET PLUMB. EACH VALVE BOX SHALL BE PLACED DIRECTLY OVER THE VALVE IT SERVES, WITH THE TOP OF THE BOX BROUGHT FLUSH WITH THE FINISHED GRADE. AFTER BEING PLACED IN PROPER POSITION, EARTHFILL SHALL BE PLACED AROUND EACH VALVE BOX AND THOROUGHLY TAMPED ON EACH SIDE OF THE BOX. THE TOP OF THE BOX SHALL BE SET IN A CONCRETE PROTECTOR RING.
5. NO MORE THAN 6" OF GRADE RINGS SHALL BE USED FOR GRADE ADJUSTMENTS.

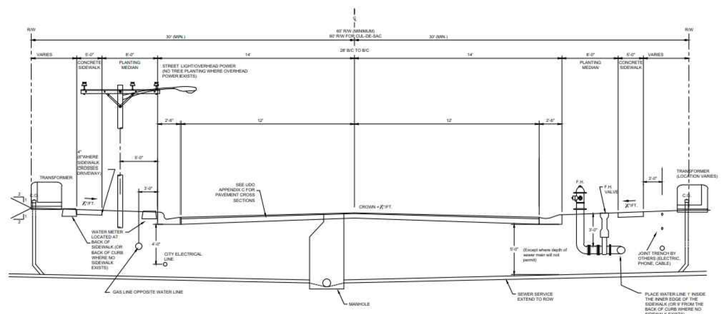
Concord High Performance Living — CITY OF CONCORD STANDARD DETAIL TYPICAL VALVE BOX

No.	Date	By	REVISION

Drawn By:	Checked By:	Approved By:	Date	Sht	of
SVM/BCC	PK	MSH	07/21	1	1

3 VALVE BOX NTS

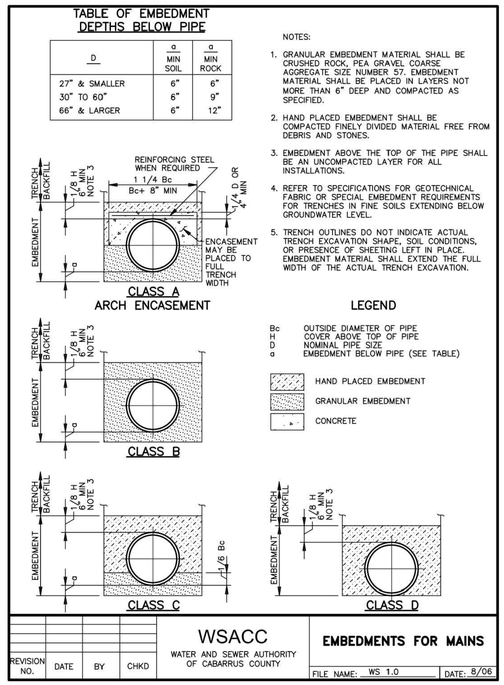
CITY OF CONCORD TECHNICAL STANDARDS MANUAL



TYPICAL UTILITY LAYOUT
NTS

4 ROADWAY UTILITY LOCATIONS NTS

CITY OF CONCORD TECHNICAL STANDARDS MANUAL



REVISION NO.	DATE	BY	CHKD

WSACC — WATER AND SEWER AUTHORITY OF CABARRUS COUNTY

EMBEDMENTS FOR MAINS

FILE NAME: WS 1.0 — DATE: 8/06

5 CABARRUS COUNTY BEDDING DETAIL NTS

CITY OF CONCORD TECHNICAL STANDARDS MANUAL

[redacted]

PANDA EXPRESS · CHINESE KITCHEN

PANDA EXPRESS, INC.

1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770

TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288

[redacted]

REVISIONS:

ISSUE DATE:

ISSUE FOR PERMIT	04-07-22
ISSUE FOR BID	04-25-22

[redacted]

DRAWN BY: KBS

[redacted]

PANDA PROJECT #:D8689
PANDA STORE #:
ARCH PROJECT #:

[redacted]

INGENIUM ENTERPRISES
Civil Engineering & Planning

[redacted]

NORTH CAROLINA PROFESSIONAL SEAL 028149 ENGINEER JAMES D. NEFF
4/28/22

[redacted]

UTILITY DETAILS II

C04.2

[redacted]

TRUE WARM & WELCOME 2200