<table>
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<th>DWG. NO.</th>
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<tr>
<td>__400–0</td>
<td>TYPICAL IMPROVED STREET SECTION</td>
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<tr>
<td>__400–1</td>
<td>TYPICAL UNIMPROVED STREET SECTION</td>
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<td>__400–2</td>
<td>TYPICAL ALLEY</td>
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<td>__400–3</td>
<td>SIDEWALK &amp; DRIVEWAY SECTIONS</td>
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<td>__400–4</td>
<td>TYPICAL DRIVEWAY PLAN</td>
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<td>__600–0</td>
<td>CONCRETE CURB &amp; GUTTER</td>
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<td>__600–1</td>
<td>CONCRETE CURB</td>
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<td>CURB INLET</td>
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<td>__600–3</td>
<td>CATCH BASIN – TRAPPED</td>
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<tr>
<td>__600–4</td>
<td>MISC. SIDEWALK DETAILS</td>
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<td>__600–5</td>
<td>MOUNTABLE CURB</td>
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</table>

| __800–WS–2 | WATER METER/EXTERIOR REGISTER                                              |
| __800–WS–3 | WATER SERVICE INSTALLATION ATTACHMENTS A & B                              |
| __800–WS–3A | MULTIPLE OUTSIDE SHUT OFF VALVES                                          |
| __800–WS–4 | COMMERCIAL MULTIPLE METERS                                                 |
| __800–WS–4A | COMMERCIAL MULTIPLE METERS (Domestic/Fire/Irrigation)                      |
| __800–WS–5 | METER SETTING 1 1/2” – 6”                                                  |
| __800–WS–5A | DUAL METER SETTING                                                        |
| __800–WS–5B | METER MANIFOLDS                                                           |
| __800–WS–6 | 20” METER PIT for 1” or SMALLER METERS                                   |
| __800–WS–6A | 48” METER PIT for 1 1/2” or 2” METERS                                     |
| __800–WS–6B | METER PIT – DUAL METER SETTING                                             |
| __800–3  | BLOCKING DETAIL – BENDS                                                    |
| __800–4  | BLOCKING DETAIL – TEES & PLUGS                                             |
| __800–5  | HYDRANT DETAILS                                                            |
| __800–6  | HYDRANT SETTINGS                                                           |
| __800–7  | VALVE BOX GRADE ADJUSTMENT                                                 |
| __800–8  | TYPICAL POTABLE WATER BLOW-OFF                                             |
| __800–9  | WATERLINE LOWERING DETAIL                                                  |
| __900–0  | PRE-CAST CONCRETE MANHOLES                                                 |
| __900–1  | PRE-CAST CONCRETE MANHOLES – SLABTOP                                       |
| __900–2  | DROP MANHOLE                                                               |
| __900–2A | INSIDE DROP MANHOLE                                                       |
| __900–3  | MANHOLE GRADE ADJUSTMENT                                                  |
| __900–4  | HOUSE SEWER LATERALS                                                      |
| __900–4A | SEWER LATERAL DISCONNECT                                                  |
| __900–5  | TRENCH DETAILS                                                             |
| __900–6  | PRE-CAST CONCRETE MANHOLE WITH PREFORMED CONNECTOR                        |
| __900–7  | STANDARD SAMPLING MANHOLE                                                 |
| __900–8  | TYPICAL ROOFLEADER CONNECTION/DISCONNECTION                               |
| __900–9  | SEWER LATERAL CLEAN OUT                                                   |
PAVEMENT COMPOSITION SHALL BE:

AS REQUIRED IN S5.08 OF THE SUBDIVISION ORDINANCE
OF THE CITY OF NEWARK, OHIO OR
OTHER MATERIALS APPROVED BY THE CITY ENGINEER

THE ACTUAL THICKNESSES OF THE PAVEMENT OR PAVEMENT COURSES
SHALL BE DESIGNED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER
USING THE PROCEDURES SET FORTH IN:

A. SECTION S5.08 OF THE SUBDIVISION ORDINANCE OF
THE CITY OF NEWARK, OHIO ORD. 93–62 OCT. 3, 1994

B. THE ASPHALT INSTITUTE, MANUAL SERIES NO. 1 (MS–1)
TITLED "THICKNESS DESIGN—ASPHALT PAVEMENTS FOR
HIGHWAYS AND STREETS"

C. OHIO READY MIXED CONCRETE ASSOC., OHIO CONCRETE
PAVERS COUNCIL AND PORTLAND CEMENT ASSOC.—
"DESIGN MANUAL—PORTLAND CEMENT CONCRETE PAVEMENTS".

CITY OF NEWARK, OHIO
DIVISION OF ENGINEERING

STANDARD DRAWING 400–0
TYPICAL IMPROVED STREET SECTION
200-LB. DRAIN TREATMENT SURFACE
6" 304 COMPACTED IN 3" LIFT
(USE TO FORM STABILIZED SHOULDERS)

MAX. CUT SECTION

MIN. CUT SECTION

DRIVEWAY CROSSING - MAX. DITCH

DRIVEWAY APPROACHES TO BE CONSTRUCTED OF WELL COMPACTED MATERIAL AND SURFACED WITH 6" OF 304 AGGREGATE BASE OR APPROVED EQUIVALENT.

12" TYPE D CONDUIT PER ITEM 603
MINIMUM SLOPE 0.44%

DRIVEWAY CROSSING - MIN. DITCH

12" TYPE D CONDUIT PER ITEM 603
MINIMUM SLOPE 0.44%
SECTION "A"−"A"

R=FACE OF SIDEWALK TO BACK OF CURB
W=VARIABLE ALLEY WIDTH
S=VARIABLE SIDEWALK WIDTH

ALL ALLEY APRONS SHALL BE 7" CLASS "C" CONCRETE

NOTE: CONCRETE APPROACH MUST MEET SIDEWALK, ALLEY PAVEMENT AND GUTTER AT GRADE.

CITY OF NEWARK, OHIO       STANDARD DRAWING 400−2
DIVISION OF ENGINEERING     TYPICAL ALLEY
IF EXISTING CURB IS STANDARD 6" HEIGHT, REMOVE CURB AND REPLACE WITH 1 1/2" HIGH AS SHOWN. IF REMOVING CURB LEAVES LESS THAN 5' OF CURB SECTION, IT SHALL BE REMOVED AND REPLACED. SAWCUTTING CURB IS PERMITTED WITH PROPER EQUIPMENT.

DRIVEWAY

SIDEWALK

NO SIDEWALKS SHALL BE CONSTRUCTED OR RECONSTRUCTED OR REPAPPED UNTIL THE PROPER LINE AND GRADE FOR THE SAME SHALL HAVE BEEN OBTAINED FROM THE CITY ENGINEER AND THE SAME SHALL BE CONSTRUCTED OR RECONSTRUCTED, AS THE CASE MAY BE, IN ACCORDANCE WITH THE LINES AND GRADES GIVEN BY THE ENGINEER AND SUBJECT TO HIS SUPERINTENDENCE, DIRECTIONS AND CONTROL.

ALL CONCRETE TO BE CLASS "C" PER 499

CITY OF NEWARK, OHIO

DIVISION OF ENGINEERING

STANDARD DRAWING 400-3

SIDEWALK & DRIVEWAY SECTION
SECTION "A" - "A"

NO DRIVEWAY APPROACH SHALL BE CONSTRUCTED OR RECONSTRUCTED OR REPAVED UNTIL THE PROPER LINE AND GRADE FOR THE SAME SHALL HAVE BEEN OBTAINED FROM THE CITY ENGINEER AND THE SAME SHALL BE CONSTRUCTED OR RECONSTRUCTED, AS THE CASE MAY BE IN ACCORDANCE WITH THE LINES AND GRADES GIVEN BY THE ENGINEER AND SUBJECT TO HIS SUPERINTENDENCE, DIRECTION AND CONTROL.
VOLUME PER LINEAL FOOT OF CURB & GUTTER = 1.29 CU. FT. OR 186 SQ. INCHES.

ALL EXPOSED SURFACES OF CONCRETE CURB AND GUTTER TO BE FLOAT FINISHED.

UNDERDRAIN CONSTRUCTED AS PER STATE OF OHIO DEPT. OF TRANS.
CONST. & MAT'L. SPECS ITEM 605, MATERIAL PER 707.17 (PVC PERFORATED PIPE)

** 3" OF TOPSOIL PER ITEM 653, SEEDED & MULCHED WITH URBAN MIX PER ITEM 659.
ALL EXPOSED SURFACES OF CONCRETE CURB TO BE FLOAT FINISHED.

* 3" OF TOPSOIL PER ITEM 653, SEEDED & MULCHED WITH URBAN MIX PER ITEM 659.
NOTE: ALL CURB INLETS OVER 4" DEEP SHALL HAVE MANHOLE APPROVED STEPS. (SEE STANDARD DWG. 900-0)

PROVIDE 3"-4" OF SLOPE TO OUTLET PIPE USING CONCRETE / CEMENT MORTAR

8' BRICK OR 6" PRE-CAST CONCRETE
BRICK TO BE COVERED WITH 1/2" THICK LAYER OF LIME CEMENT MORTAR
UNDERDRAIN, IF SPECIFIED

CONCRETE, CLASS "F" PER 499

CITY OF NEWARK, OHIO
DIVISION OF ENGINEERING
STANDARD DRAWING 600-2
CURB INLET
NOTE:
FOR COMBINED SYSTEM ONLY – FOR REBUILD ONLY

MIN. 30° BENDS NO GREATER THAN 45° BENDS PLASTIC PIPE
INSIDE & OUTSIDE OF CATCH BASIN WALL TO BE PLASTERED 1/2" THICK WITH A MORTAR
OF EQUAL OF SAND AND PORTLAND CEMENT.
GRADE OF OUTLET END OF TRAP VARIES WITH DEPTH OF MANHOLE. SIZE SHOWN IS 12" DIA.
SIZE WILL VARY ON REPLACEMENT JOBS.
IF MANHOLE IS EXCEPTIONALLY SHALLOW, ONE 30 DEGREE BEND MAY BE OMITTED AND
PIPE MAY BE LAID WITH SLIGHTLY BROKEN JOINTS TO ACHIEVE A DESCENDING GRADE.
HYDRANT BOXING

TELEPHONE & POWER POLES

SIDEWALK WITH INTEGRAL CURB

PLANTING BOX

BENCH AREA

CITY OF NEWARK, OHIO
DIVISION OF ENGINEERING

STANDARD DRAWING 600-4

MISC. SIDEWALK DETAILS
VOLUME PER LINEAL FOOT OF CURB & GUTTER = 1.61 CU. FT. OR 232 SQ. INCHES.

ALL EXPOSED SURFACES OF CONCRETE CURB AND GUTTER TO BE FLOAT FINISHED.

UNDERDRAIN CONSTRUCTED AS PER STATE OF OHIO DEPT. OF TRANS.
CONST. & MAT' L. SPECS ITEM 605, MATERIAL PER 707.17 (PVC PERFORATED PIPE)

** 3" OF TOPSOIL PER ITEM 653, SEADED & MULCHED WITH URBAN MIX PER ITEM 659.
REMOTE REGISTER TO BE 4'-5' ABOVE GROUND ON THE FRONT OR ON THE SIDE NEAR THE FRONT. NOT PERMITTED ON THE REAR.

WIRE ENCASED IN WEATHER-PROOF CONDUIT (WHERE IT IS INACCESSIBLE).* WIRE TO BE FURNISHED BY THE DIVISION OF WATER. (NO SPlicing PERMITTED).

STANDARD WALL CLAMPS INSTALLED AT 18" INTERVALS.

*NOTE: WHEN THE WIRE IS CONSIDERED INACCESSIBLE FOR REPLACEMENT, THE WIRE IS TO BE ENCASED IN WEATHER PROOF CONDUIT. COMPLETE WATER METER/EXTERIOR REGISTER INSTALLATION TO BE INSPECTED AND APPROVED BY THE CITY OF NEWARK, DIVISION OF WATER.

DIMENSIONAL DESIGN FOR METERS AND CONNECTIONS.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>COUPLING LENGTH</th>
<th>TAILPIECE LENGTH</th>
<th>THREAD</th>
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<tr>
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<td>7 1/2&quot;</td>
<td>2 1/2&quot;</td>
<td>3/4&quot;</td>
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<tr>
<td>1&quot;</td>
<td>10 3/4&quot;</td>
<td>2 5/8&quot;</td>
<td>1&quot;</td>
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FOR SIZES 1 1/2" OR LARGER REF. #800-WS-5

CITY OF NEWARK, OHIO
DIVISION OF ENGINEERING
WATER METER/EXTERIOR REGISTER

STANDARD DRAWING 800-WS-2
MULTIPLE OUTSIDE SHUT OFF VALVES ARE REQUIRED TO BE INSTALLED ON PRIVATE PROPERTY, WITH MULTIPLE METERS (SAME BLDG). SEE STANDARD DRAWING 800-WS3A

NOTE: WATERMAIN TO BE IN STREET AS SHOWN

OUTSIDE READING DEVICE (SEE STD. DWG. 800-WS-2) 4'-0" ABOVE GROUND

PRIVATE SERVICE BOX

MIN. COVER 42" OVER SERVICE LINE

SERVICE LINE

MIN. COVER 54"

WALK GRASS AREA

MIN. COVER 1/2 DISTANCE (APPROX.) BETWEEN WALK AND BACK OF CURB.

CURB STOP
FORD B44-333
HAYS 4008 (NUSEAL), OR EQUAL.

90 DEGREE BEND
FORD LO SERIES OR EQUAL

CORPORATION STOP
FORD F600 OR EQUAL

NOTE: CORP. STOP CAN BE PLACED AT 10:00 OR 2:00 WITHOUT 90° BEND.

NOTE: 3 THREAD RULE--- PIPE WALL THICKNESS AND SIZE OF CORP. STOP DETERMINES THE NUMBER OF THREADS IN PIPE. SEE ATTACHMENT A & B FOR PRESCRIBED WALL THICKNESS FOR 3 THREAD COVERAGE. SADDLES MAY BE NECESSARY FOR 1" AND LARGER SIZE TAPS. SADDLE SPEC. FORD F-202 STYLE DUCTILE IRON BODY W/STEEL, ZINC COATED STRAPS OR APPROVED EQUAL.
A drawing must be submitted to the water meter supervisor detailing the curb stop layout & what area(s) are served by each stop before final approval will be issued by the Water Department.

**TOP VIEW**
* ALL BACK FLOW PREVENTION MUST BE APPROVED BY THE PLUMBING INSPECTOR

ASSE 1013

DOMESTIC SUPPLY

DUAL CHECK ASSE 1024

FIRE SUPPLY

ASSE 1013

IRRIGATION SUPPLY (WITH BILLING SUPERVISOR APPROVAL)

LOCK STOP

FIRE/LAWN METER

VALVE

PRESSURE GAUGE (OPTIONAL)

COMMERCIAL MULTIPLE METERS

CITY OF NEWARK, OHIO
DIVISION OF ENGINEERING

STANDARD DRAWING 800—WS—4A

C.M.M. (Domestic/ Fire/ Irrigation)
METER SETTING
(1 1/2”–6” WATER METERS)

NOTES:
* SIZE OF THE BY-PASS LINE MUST MEET EMERGENCY WATER REQUIREMENTS.

** LOCKSTOP MUST BE PURCHASED THROUGH THE NEWARK WATER DEPT. FOR THE BY-PASS VALVE (SIZES 2” AND BELOW).

*** FOR TURBO METERS, SIZES 3” OR LARGER, THE TEST TEE IS TO BE FULL SIZE WITH REDUCING FLANGE TO 2” NIPPLE AND 2” LOCKSTOP (PURCHASED THROUGH THE NEWARK WATER DEPT.). TEST TEE MUST BE LOCATED A MINIMUM OF 2 PIPE DIAMETERS DOWNSTREAM OF THE TURBO–METER.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>COMPANION FLANGE</th>
<th>METER TYPE</th>
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<tbody>
<tr>
<td>1 1/2”</td>
<td>1 1/8”</td>
<td>13”</td>
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<tr>
<td>2”</td>
<td>1 1/4”</td>
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<td>3”</td>
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<tr>
<td>4”</td>
<td>1 5/16”</td>
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<td>6”</td>
<td>1 7/16”</td>
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TEST TEE REQUIRED NOT REQUIRED REQUIRED
NOTES:

* SIZE OF THE BY-PASS LINE MUST MEET EMERGENCY WATER REQUIREMENTS.

** LOCKSTOP MUST BE PURCHASED THROUGH THE NEWARK WATER DEPT. FOR THE BY-PASS VALVE (SIZES 2" AND BELOW).

*** FOR METERS, SIZES 3" OR LARGER, THE TEST TEE IS TO BE FULL SIZE WITH REDUCING FLANGE TO 2" NIPPLE AND 2" LOCKSTOP (PURCHASED THROUGH THE NEWARK WATER DEPT.). TEST TEE MUST BE LOCATED A MINIMUM OF 2 PIPE DIAMETERS DOWNSTREAM OF THE TURBO-METER.

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<td>1 5/16&quot;</td>
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<td>6&quot;</td>
<td>1 7/16&quot;</td>
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CITY OF NEWARK, OHIO
DIVISION OF ENGINEERING
STANDARD DRAWING 800–WS–5A
DUAL METER SETTING
*** TEST TEE TO BE FULL SIZE WITH REDUCING FLANGE TO 2" NIPPLE AND 2" LOCKSTOP (PURCHASED THRU THE NEWARK WATER DEPT.). TEST TEE MUST BE LOCATED A MINIMUM OF 2 PIPE DIAMETERS DOWNSTREAM OF THE TURBO-METER.
METER PIT FOR 1" OR SMALLER METERS

METER PIT SETTINGS

COPPERHORN

PIT 20" IN DIAMETER/OVER 42" DEEP
33" RISERS WITH A 15" LID (AND 1 3/4" HOLE FOR TOUCH READ)
48" METER PIT FOR 1 1/2" OR 2" METERS

NOTE: ACCESS DOOR / LID SPEC.
BILCO TYPE K OR J OR PCM
OR APPROVED EQUAL
APPROVED BY THE WATER METER DEPT.

SEE NOTES ON STANDARD DRAWING 800–WS–5
CITY OF NEWARK, OHIO
DIVISION OF ENGINEERING

STANDARD DRAWING 800–WS–6B
METER PIT—DUAL METER SETTING

* REF. DRAWING 800–WS–5A FOR DUEL METER SETTINGS (DOMESTIC & FIRE)
* REF. DRAWING 800–WS–5 FOR STANDARD METER SETTING (1 1/2 & ABOVE)

5–06 KELLEY
REVISED 5–06 KELLEY
CLASS "F" CONCRETE PER 499 REQUIRED UNLESS OTHERWISE APPROVED.

NOTE: WRAP PIPE/FITTINGS WITH PLASTIC BEFORE POURING CONCRETE.

NOTE: NO QUICKCRETE – NO MIXING IN THE HOLE.

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<th>DIA. OF PIPE</th>
<th>DEGREE OF BEND</th>
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<td>11 1/4</td>
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<td>6&quot; OR LESS</td>
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DIMENSIONS ARE IN INCHES

BLOCKING DESIGNED FOR 2500 PSF SOIL BEARING

NOTE: FOR SIZES GREATER THAN 16" CONTACT CITY ENGINEER.
CLASS "F" CONCRETE PER 499

DIMENSIONS ARE IN INCHES. USE ASTERISKED VALUES FOR PLUGS(*).

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CITY OF NEWARK, OHIO
DIVISION OF ENGINEERING
BLOCKING DETAILS--TEES & PLUGS

STANDARD DRAWING 800-4

REVISED 5-86 KELLEY
* CONCRETE BLOCKING:
  NOT REQUIRED WHEN ANCHORING FITTINGS ARE USED IN ALL APPROPRIATE SECTIONS OF HYDRANT INSTALLATION.

AMERICAN DARLING B-84-B

MINIMUM 15” MAXIMUM 20”
FINISH GRADE

VALVE BOX
2” SQUARE OPERATING NUT (OPEN LEFT)

6” AUXILIARY VALVE
RESTRAINING JOINTS FORD UNIFLANGE ROMAC GRIP RING OR APPROVED EQUAL

#57 AGGREGATE

NOTE: CARE SHALL BE EXERCISED TO KEEP HYDRANT DRAIN OPENING FREE TO OPERATE.
TYPE OF HYDRANT SHALL MEET THE REQUIREMENTS OF Specs. 803.
PIPE SECTION BETWEEN VALVE & HYDRANT SHALL BE ONE ANCHORING PIPE — CLOW F-1216 OR APPROVED EQUAL-36” MINIMUM.
HYDRANT TO BE PAINTED “CHROME YELLOW”
NOTE:
ALL VALVES TO HAVE 2" SQUARE OPERATING NUT NON-RISING STEM, OPEN LEFT.

TYPE 1
TYPICAL INSTALLATION PERPENDICULAR TO THE MAIN USING ANCHORING TEE, M. J. VALVE, ANCHORING COUPLING AND M. J. HYDRANT.

CLOW F-1217 OR APPROVED EQUAL.
CLOW F-1216-36" MIN. OR APPROVED EQUAL.

CLOW F-940 M. J. TEE OR APPROVED EQUAL

TYPE 2
TYPICAL INSTALLATION PARALLEL TO THE MAIN, USING ANCHORING TEE, M. J. VALVE, ANCHORING PIPE AND M. J. HYDRANT.

CLOW F-1218 OR APPROVED EQUAL.
CLOW F-1216-36" MIN. OR APPROVED EQUAL.

TYPE 3
TYPICAL INSTALLATION PARALLEL TO THE MAIN, USING HYDRANT TEE, M. J. VALVE, ANCHORING PIPE AND M. J. HYDRANT.

CLOW F-1224 OR APPROVED EQUAL.
CLOW F-1216-36" MIN. OR APPROVED EQUAL.

FOR DETAILS, SEE STANDARD DRAWING 800-5.
18" DIAMETER CUT

2" of CLASS "C" CONCRETE

NEW PAVEMENT

EXISTING PAVEMENT

CLASS "C" CONCRETE
PER ODOT SECTION 499

NO RISERS TO BE USED IN STREET AREAS.
GROUND LINE

SERVICE BOX 94 E OR EQUAL.

COPPER TUBING, TYPE K

CORPORATION STOP MUELLER H-15000 OR EQUAL

WATER MAIN

CURB STOP MUELLER H-15151 (ORLSEAL), HAYS 4008 (NUSEAL), OR EQUAL.

1' MIN.

3'-6" MIN.

2' MIN.

SLOPE

4 CU. FT. GRANULAR MATERIAL

DRILL 1/8" DIA. HOLE AT LOWEST POINT IN COPPER TUBING

TAP @ 2 O'CLOCK OR 10 O'CLOCK – DO NOT USE ELBOW

NOTE: THIS TYPE BLOW-OFF IS TO BE USED WHEN A FIRE HYDRANT IS NOT INSTALLED AT END OF LINE.
NOTES:
1. TIME AND DURATION OF SHUT DOWN SHALL BE DETERMINED BY THE DIRECTOR OF UTILITIES.
2. THE CONTRACTOR SHALL NOTIFY ALL WATER CUSTOMERS AFFECTED BY THE PROPOSED WORK AT LEAST 24 HOURS IN ADVANCE OF SHUT DOWN.
3. ALL BENDS SHALL BE SECURED BY RETAINING GLANDS, RODDING OR OTHER METHODS AS APPROVED BY THE ENGINEER TO RESTORE MAIN TO SERVICE AS SOON AS POSSIBLE. CONCRETE BACKING SHALL THEN BE PROVIDED IN ACCORDANCE WITH STANDARD DRAWING 800–3.
4. THE RELOCATED LINES SHALL BE LAID TO THE NEW LINE AND GRADE, TESTED AND DISINFECTED PRIOR TO SHUT DOWN OF EXISTING MAIN AND CONNECTION OF THE RELOCATED LINES TO THE EXISTING MAIN.
5. ALL WATER LINES SHALL BE DISINFECTED BY SWABBING WITH A 5 PERCENT HYPOCHLORITE SOLUTION IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF A.W.W.A. C-601.
NOTE: ALL MANHOLES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE PROPOSED STREET GRADE OR TO THE PRESENT GROUND ELEVATION, WHICHERSOEVER IS HIGHER, UNLESS OTHERWISE ORDERED.

MANHOLE BARREL SECTIONS CAN BE MADE IN 16", 32", 48", & 64" LAYING LENGTHS TO SUIT FIELD CONDITIONS. THESE SECTIONS SHALL BE USED IN SUCH COMBINATIONS AS WILL BE NECESSARY TO FIT EACH LOCATION.

MANHOLE STEPS TO BE NEENAH CAST IRON CAT. NO. R-1980-E OR FORGED ALUMINUM ALLOY PER ASTM B221 OR REINFORCED PROPYLENE PLASTIC, PER 711.31 ALL MEETING MINIMUM O.S.H.A. REQUIREMENTS.
NOTE: CENTER OPENING OVER STEPS, DIRECTLY OVER DOWNSTREAM FLOW LINE

M. H. CASTING: NEENAH R-1723 OR R-1642, OR EJ 1047 OR APPROVED EQUAL. LOCATED OVER STEPS.

FINISH ADJUSTMENT (BRICK OR GRADE RINGS) MAXIMUM: 12", MINIMUM: 8"

BELL MESH 2 x 8 3/7

48" DIA. O-RING MH.
5" CLASS "C" CONCRETE ENCASSEMENT.

FOR CONCRETE REQUIREMENTS SEE ITEM NO. 499 OF O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS.

FOR MANHOLE DETAILS SEE STD. DWG. 900-0 AND 900-6.

A DROP MANHOLE IS TO BE USED WHENEVER THE SEWER ENTERING THE MANHOLE IS 2' OR MORE ABOVE THE MANHOLE INVERT.
A DROP MANHOLE IS TO BE USED WHEN EVER THE SEWER ENTERING THE MANHOLE IS 2' OR MORE ABOVE THE MANHOLE INVERT.
MAXIMUM SIZE OF PIPE FOR INSIDE DROP IS 8" DIA.
SECTION 1
CONCRETE PAVING BRICKS

48" DIAMETER CUT

MINIMUM 20 BRICKS PER LIFT

MORTAR TO FILL ALL VOIDS

SECTION 2
PRECAST CONCRETE ADJUSTING RINGS

2" of CLASS "C" CONCRETE
NEW PAVEMENT
EXISTING PAVEMENT
CLASS "C" CONCRETE PER ODOT SECTION 499
BRUSH FINISH ON INSIDE OF MANHOLE

CITY OF NEWARK, OHIO
DIVISION OF ENGINEERING
STANDARD DRAWING 900-3
MANHOLE GRADE ADJUSTMENT

7-91
PIPIES
REVISED
THIS DRAWING PERTAINS ONLY TO NEW SEWER CONSTRUCTION.

THE INVERT AT THE END OF THE LATERAL SHALL BE A MINIMUM OF 9.0 FT. BELOW EXISTING STREET C/L ELEVATION FOR VACANT LOTS.

THE INVERT AT THE END OF THE LATERAL SHALL BE A MINIMUM OF 10.0 FT. BELOW FINISH FLOOR ELEVATION ON ALL EXISTING HOUSES.

LATERAL TO BE BEDDED IN MIN. OF 6" OF NO. 57 WASHED GRAVEL TO A DEPTH OF 12" OVER THE TOP OF THE PIPE.
TO PROPERTY LINE DISTANCE VARIES

STATION AS PER PLAN SHEETS OR ENGINEERS REQUEST

WYE POLES (PVC) TO BE PLACED AT END OF CAPPED PIPE.

CUT PIPE AND REMOVE

12" OF #57 WASHED GRAVEL ABOVE PIPE 6" BELOW PIPE

PIPE DIAMETER (VARIIES)

CUT FLUSH AFTER FINAL INSPECTION

TOP OF GROUND

CUT PIPE AND CAP WITH FERNCO QWIK CAP

UNTIL FUTURE CONNECTION, PLUG & SEAL AT THIS POINT WITH FERNCO QWIK CAP COVER WITH 12" #57 WASHED GRAVEL.

THIS DRAWING PERTAINS ONLY TO SEWER DISCONNECTION
CAPPED LATERAL TO BE BEDDED IN MIN. OF 6" OF NO. 57 WASHED GRAVEL TO A DEPTH OF 12" OVER THE TOP OF THE PIPE.

CITY OF NEWARK, OHIO
DIVISION OF ENGINEERING

STANDARD DRAWING 900–4A
SEWER LATERAL DISCONNECT

REVISED
TRENCH DIMENSIONS

MAXIMUM REPLACING SQ. YD. PER LIN. FT.

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**NOTES:**

This work shall consist of pavement removal, necessary excavation, and pavement replacement in accordance with the details shown herein. All work and materials shall conform to the requirements of the current city specifications.

When the pavement has been removed and the contractor is unable to complete the required replacement in time for it to be opened to traffic as indicated on the permit, the excavation shall be filled with a patch material with a durable surface or plated. The cost of placing, maintaining, removing, and disposing of temporary patches or plates will be at the contractor's expense.

The backfilling, pavement repair, and/or the heat welding shall be done by the contractor or permtee in accordance with the city specifications.

**PAVEMENT REPLACEMENT—**

If asphalt is unavailable at the time which the sewer is constructed, then temporary pavement shall be used and 301 shall be non-performed. When asphalt plants reopen, the contractor shall remove the top 3 inches of 452 and replace with 441. All costs associated with this operation shall be included in the unit price bid of pavement items.

**TYPICAL PIPE TRENCH DETAILS**

**TYPICAL PIPE TRENCH DETAIL**

For waterline bedding and initial backfill shall meet AWWA spec. 4.2.5, modified to exclude the use of clean gravel or crushed stone. Sand-gravel mixtures are acceptable.

**NOTES:**

- Item 441 - Asphalt Concrete Surface Course, Type I, (448) P064–22
- Item 301 - Asphalt Concrete Base, P064–22 (3" MAX. LIFTS)
- Item 452 - Plain Concrete Pavement
- Item 452 - Plain Concrete Pavement

**CITY OF NEWARK, OHIO**

**STANDARD DRAWING 900-5**

**DIVISION OF ENGINEERING**

**TRENCH DETAILS**

**REVISED 5-96 KELLEY 7-2018 KELLEY**
SEE NOTES ON STANDARD DRAWING 900-0

CITY OF NEWARK, OHIO
DIVISION OF ENGINEERING

STANDARD DRAWING 900-6
PRECAST CONCRETE MANHOLE WITH PREFORMED CONNECTOR
NOTE: ALL MANHOLES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE PROPOSED STREET GRADE OR TO THE PRESENT GROUND ELEVATION, WHICHEVER IS HIGHER, UNLESS OTHERWISE ORDERED.

MANHOLE BARREL SECTIONS CAN BE MADE IN 16", 32", 48" AND 64" LAYING LENGTHS TO SUIT FIELD CONDITIONS. THESE SECTIONS SHALL BE USED IN SUCH COMBINATIONS AS WILL BE NECESSARY TO FIT EACH LOCATION.

MANHOLE STEPS TO BE NEENAH CAST IRON CAT. NO. R-1980-E OR FORGED ALUMINUM ALLOY PER ASTM B221 OR REINFORCED PROPYLENE PLASTIC, PER 711.31 ALL MEETING O.S.H.A. REQUIREMENTS.
ORD. NO. 91-59 - CHAPTER 3
SECTION 10: ILLEGAL USE OF SEWERS

A. NO PERSON SHALL DISCHARGE OR CAUSE TO BE DISCHARGED ANY STORM WATER, SURFACE WATER, GROUND WATER, ROOF RUNOFF, SUBSURFACE DRAINAGE, UNPOLLUTED COOLING WATER OR UNPOLLUED INDUSTRIAL WASTEWATER TO ANY SANITARY SEWER. STORM WATER AND ALL OTHER UNPOLLUTED DRAINAGE SHALL BE DISCHARGED INTO SEWERS SPECIFICALLY DESIGNED AND DESIGNATED AS STORM SEWERS, OR INTO A NATURAL OUTLET APPROVED BY THE DIRECTOR.