CITY OF TALENT

STANDARD DETAILS

Amended September 20, 2017
RES 17-694-R

RH2
Consulting Engineers
60 North 4th Street
Central Point, OR 97502
Standard Detail Index

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Driveway Apron

Section A-A

Notes:
1. RESIDENTIAL DRAWDWAYS AND SIDEWALK SECTIONS THROUGH DRAWDWAYS SHALL HAVE A NOMINAL THICKNESS OF 6".
2. CONCRETE FOR COMMERCIAL USE AND ALLEY APPROACHES SHALL HAVE A NOMINAL THICKNESS OF 6" WITH #4 REBAR 12" O.C. BOTH WAYS. (2" CLEAR)
3. MINIMUM DRAWDWAY WIDTH 12 FEET.
4. IF DRAWDWAY IS LESS THAN 15' WIDE DO NOT PLACE ISOLATION JOINT AT CENTER.
5. IF APRON AND DRAWDWAY ARE POURED AT THE SAME TIME, PLACE ISOLATION JOINT WHERE THEY MEET.
6. WHERE SIDEWALK IS ADJACENT TO CURB, CONSTRUCT A CONTRACTION JOINT WITH CURB JOINT (10") AND IN BETWEEN (5').
7. ALL MIX SHALL BE VIBRATED OR TAMPERED, AS DIRECTED, FOR COMPACTION.
8. GRANULAR MATERIAL UNDER DRAWDWAYS AND SIDEWALK SECTIONS THROUGH DRAWDWAYS SHALL BE SAND, GRAINITE, OR CRUSHED ROCK, MINIMUM 3", FIRMLY TAMPERED.
9. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
10. ALL WORK, MATERIALS & CURING SHALL CONFORM TO 2002 OREGON APWA STANDARD SPECS, AS AMENDED BY THE CITY OF TALENT.
Notes:

1. RESIDENTIAL DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVeways SHALL HAVE A NOMINAL THICKNESS OF 6".

2. CONCRETE FOR COMMERCIAL USE AND ALLEY APPROACHES SHALL HAVE A NOMINAL THICKNESS OF 6" WITH #4 REBAR 12" O.C. BOTH WAYS. (2" CLEAR)

3. MINIMUM DRIVEWAY WIDTH 12 FEET.

4. IF DRIVEWAY IS LESS THAN 15' WIDE DO NOT PLACE ISOLATION JOINT AT CENTER.

5. IF APRON AND DRIVEWAY ARE Poured AT THE SAME TIME, PLACE ISOLATION JOINT WHERE THEY MEet.

6. WHERE SIDEWALK IS ADJACENT TO CURB, CONSTRUCT A CONTRACTION JOINT WITH CURB JOINT (10") AND IN BETWEEN (9").

7. ALL MIX SHALL BE VIBRATED OR TAMPEd, AS DIRECTED, FOR COMPACTION.

8. GRANULAR MATERIAL UNDER DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL BE CRUSHED ROCK, MINIMUM 3", COMPACTED TO 95% IN DRIVEWAYS AND 90% IN SIDEWALKS (ODOT TM-106)

9. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO

10. ALL WORK, MATERIALS & CURING SHALL CONFORM TO 1986 OREGON APWA STANDARD SPEcS, AS AMENDED BY THE CITY.
**NOTES**

1) The "Americans with Disabilities Act" requires that access ramps to sidewalks have no slopes greater than 12 horizontal to 1 vertical.
2) Min. of 2" granular cushion.
3) P.G.C. shall be Class 3300 - 3/4" 0.54 W/C Ratio
4) In certain areas the ramp may be located to match crosswalks or two ramps may be required.
5) In areas of existing curb and gutter, remove and replace both curb and gutter.
Fill Section

Cut Section

NOTES:
1) COMPACT ALL BACKFILL BEHIND CURBS TO 90% MINIMUM.

CITY OF TALENT
STANDARD DETAIL

CURB BACKFILL
DETAILS

SCALE: NONE  DWG. NO: 96-04
**Sidewalk With Parkway Strip**

**Sidewalk Adjacent To Curb**

**Notes:**

1. SIDEWALKS SHALL HAVE A NOMINAL THICKNESS OF 4".
2. SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL HAVE A NOMINAL THICKNESS OF 6".
3. WHERE SIDEWALK IS ADJACENT TO CURB, PLACE CONSTRUCTION JOINT IN LINE WITH CURB JOINT (10") AND IN BETWEEN (5").
4. ALL MIX SHALL BE VIBRATED OR TAMPAED, AS DIRECTED, FOR COMPACTION.
5. GRANULAR MATERIAL UNDER SIDEWALKS & DRIVEWAY SHALL BE CRUSHED ROCK, COMPACTED TO 95% IN DRIVEWAY AREAS AND 90% IN SIDEWALKS (ODOT TM-109).
   a. 2" MIN. THICKNESS UNDER SIDEWALKS.
   b. 3" MIN. THICKNESS UNDER DRIVEWAYS.
6. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
7. ALL WORK & MATERIALS SHALL CONFORM TO 1990 OREGON APWA STANDARD SPECS, AS AMENDED BY THE CITY.
Notes:

1. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO

2. ALL WORK & MATERIALS SHALL CONFORM TO 1900 OREGON APWA STANDARD SPEC'S. AS AMENDED BY THE CITY.

3. INSTALL CONTRACTION JOINTS EVERY 10', AND 3/8" ISOLATION JOINTS EVERY 100', AND AT END OF CURB RETURNS
GRANULAR MATERIAL UNDER MULTI-USE PATH SHALL BE CRUSHED ROCK, MINIMUM 6" FIRMLY TAMPERED.

6" THICK MINIMUM CONCRETE. APPLY BROOM FINISH PERPENDICULAR TO PATH. SAWCUT 1/4" JOINTS 1 1/2" DEEP MINIMUM EVERY 10' ALONG TRAIL. NO TOOLED JOINTS ALLOWED ON MULTI-USE PATH.

BACKFILL EDGE WITH TOPSOIL. FINISH GRADE TO BE FLUSH WITH PATH EDGE (TYP) AND RESTORE TO PRE-EXISTING LANDSCAPING. 

NOTES:
PREPARED SUBGRADE: COM ACT ROADBASE OR USE ON-SITE GRAVEL MATERIAL WHERE APPROVED BY ENGINEER. OVER EXCAVATE IF UNSTABLE SUB SOILS ARE ENCOUNTERED AND REPLACE WITH SUITABLE FILL MATERIAL. COMPACT ALL FILL AREAS TO 95% STANDARD PROCTOR AT 2% OPTIMUM. REMOVE ALL TOPSOIL PRIOR TO SUBGRADE PREPARATION.
Notes:
1. CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO.
2. FRAME AND RIDER RINGS SHALL BE SEALED WITH PREFORMED PLASTIC OR RUBBER TO FORM A WATERtight SEAL. GROUT MAY BE USED.
3. FORM STRAIGHT "U" CHANNEL WITH 1:12 SLOPE MORTAR SIDE. FULL CHANNEL PIPE WITH TOP HALF REMOVED IS ACCEPTABLE.
4. MAKE ALIGNMENT CHANGES WITH UNIFORM "U" CHANNEL, WITH SMOOTH CURVED PATH.
5. MAKE CHANGES IN CHANNEL SIZE WITH A SMOOTH, TAPERING TRANSITION.
6. FINISH PIPE ENDS flush with inside walls, GROUTED.
7. PIPE CONNECTIONS SHALL CONFORM WITH APWA "OREGON CHAPTER" STANDARD SPEC'S FOR PUBLIC WORKS CONSTRUCTION SEC 30.13.019
8. STANDARD MANHOLE COVER MARKED "D" FOR DRAINAGE.
9. ALL 48" DIA. MANHOLES WITH A DEPTH OF 42" OR GREATERT, FROM THE RIM TO THE TOP OF PIPE, SHALL USE A CONCENTRIC CONE (ASTM 479).
10. RING AND COVER TO PROJECT 6" ABOVE ADJACENT GROUND FOR MANHOLES OUTSIDE OF THE TRAVELLED WAY. SEE STD. DWG. 95-11 FOR MANHOLES IN THE TRAVELLED WAY.
11. ALL LIDS TO HAVE A PREY-NOTCH AND AT LEAST ONE BUT NOT MORE THAN TWO LIFT HOLES.
12. MAX. DROP ACROSS MANHOLE: 2". DROPS EXCEEDING 2" SHALL BE A DROP MANHOLE, SEE DWG. NO. 95-12.
13. MANHOLE SHALL CONFORM WITH APWA "OREGON CHAPTER" STANDARD SPEC'S FOR PUBLIC WORKS CONSTRUCTION, AS AMENDED BY THE CITY.

Section A-A

Outsides Of Travelled Way
Manhole Adjustment

48" & 72" Reinforced
Manhöle Flat-Top
(See Note # 9)

<table>
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<th>B</th>
<th>C</th>
<th>D</th>
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<tr>
<td>24&quot; OR LESS</td>
<td>48&quot;</td>
<td>6&quot;</td>
<td>24&quot;</td>
<td>6&quot;</td>
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<tr>
<td>27&quot; TO 42&quot;</td>
<td>72&quot;</td>
<td>6&quot;</td>
<td>24&quot;</td>
<td>9&quot;</td>
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STORM DRAIN
MANHOLE DETAIL

CITY OF TALENT
STANDARD DETAIL

SCALE: NONE
DWG. NO. 96-10
NOTES:

1) CONCRETE TO BE CLASS 3300–3/4" 0.54 W/C RATIO.

2) AC TO BE CLASS "C" IN 3" MAX. LIFTS. ALL BUT TOP LIFT SHALL BE COMPACTED WITH PNEUMATIC TAMPER WITH 6" MAX. HEAD HAMMER.
Notes

1) SURFACE CROSS-SLOPE FOR NEW CONSTRUCTION SHALL BE 1/4" RISE PER FOOT FROM TOP OF CURB TO BACK OF SIDEWALK.

2) EXISTING CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR COLD JOINT WHEN JOINT IS WITHIN 4 FEET OF THE TRANSITION POINT.

3) ALL CONCRETE SHALL BE SAWCUT AND A SMOOTH, UNIFORM JOINT PROVIDED.

4) CURING COMPOUND SHALL BE APPLIED IMMEDIATELY AFTER SURFACE IS FINISHED; WHITE VIGNETTE RECOMMENDED, CLEAR VIGNETTE ACCEPTABLE.

5) FLOOR SHALL BE Poured ON UNDISTURBED, STABLE SOIL; COMPACTED BASE (80% K.D. 3/4'-0 CRUSHED ROCK, 6" MIN. THICK).

6) SET SECTION JOINTS IN 1/2 MORTAR AND MORTAR JOINT SEALANT SR-8. 1" WIDE. SEALANT SHALL MEET FED. SPECS. SS-5-00201 (CSA-FSS).

7) ALL CONCRETE SHALL BE FORMED AND VIBRATED TO REMOVE Voids.

8) PIPE(S) SHALL BE FLUSH WITH INSIDE WALL.

9) ALL CONCRETE SHALL BE C3300 – 3/4" 0.54 W/C RATIO.

10) SURFACE HAVE A FINISHED TEXTURE THAT WILL NOT BE SLICK WHEN WET (MEDIUM BROOM FINISH), OR MATCH ADJACENT SIDEWALK.

11) ALL METAL PARTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

12) COVER SHALL BE INLAND FOUNDARY CO. INC. 706 MANHOLE RING AND COVER (OR EQUAL), SUITABLE FOR HEAVY TRAFFIC LOADING.
AREA CATCH BASIN DETAIL.

BIKE PROOF, HEAVY DUTY TRAFFIC GRATE SUPPORTS AASHTO 25 LOADING
PAVED AREA
SLOPE TO GRATE

MIN. 24" SQ. OR ROUND
PETROLEUM TRAP W/ HINGED LID
2" FLANGE
WELDED SLEEVE OR WATERTIGHT CONNECTION
MIN. 3" OUTLET

1/4" ASPHALT COATED CAST IRON OR
10 GA. ASPHALT COATED STEEL OR
4" THICK REINF. CONCRETE OR
24" RCP

3" MIN. 1"-0 CRUSHED ROCK COMPACTED TO 95% OPTIMUM
NOTES:
1) CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
2) MIX WILL BE VIBRATED OR TAMMED AS DIRECTED BY THE ENGINEER.
3) EXPANSION JOINTS SHALL BE CONSTRUCTED OF 3/8" ASPHALT IMPREGNATED FELT.
4) VALLEY GUTTER SHALL PASS A WATER TEST TO ASSURE FLOW.
NOTES:

1. COLD MIX AC MAY BE USED AS TEMPORARY PATCH ONLY.

2. ALL STEEL TRAFFIC PLATES IN TRAVELLED AREAS MUST BE "RAMPED" WITH COLD MIX AC TO ALLOW SMOOTHER TRANSITION.
   a) MINIMUM 12" LAP OF STEEL PLATES ONTO EXISTING PAVEMENT.
   b) MINIMUM 3/4" STEEL PLATE THICKNESS.

3. ALL GASKETED JOINTS SHALL BE PRESSURE TESTABLE.
   (CONCRETE PIPE -- ASTM C443; PVC & HDPE PIPE -- ASTM D3212)
NOTES:
1. Depth of cover shall be 3 feet at main and 2 feet at meter pad.
2. Water meter stake information shall include 1) offset distance, 2) number of service meters, and 3) cut or fill to finished grade.

NOTES:
1. If Parkway situation, then locate 2' from front edge of sidewalk.
2. If right-of-way/street widths preclude fire hydrants, water meters, and air release valves from being within right-of-way, then design engineer/surveyor/developer shall confirm locations with MWC.
WATER SERVICE CONNECTION TO NEW WATER MAIN

5/8"x3/4" YOKE EXPANSION CONNECTION FORD EC-23

METER BOX LID
LID - CHRISTY B-12 LID WITH PROBE HOLE

1" METER BOX CHRISTY B-12

3/4" METER VALVE FORD GA91-323 ANGLED YOKE VALVE

3/4"x1" ANGLED CURB STOP FORD BA94-324WG

17-1/4"

1" K SOFT COPPER TUBING

1" CORPORATION STOP FORD FY109-401 CORP STOP FOR COPPER TUBING DIRECT TAP OR IN CONJUNCTION WITH FORD 101 IP SINGLE STRAP SADDLE

D.I. PIPE CLASS 50 (EXISTING)

CITY OF TALENT
1. INSPECT.
2. FURNISH AND INSTALL METER.

CONTRACTOR
1. EXCAVATE AND BACKFILL.

* SERVICES GREATER THAN 2" TO BE INSTALLED BY CITY APPROVED INSTALLER*

CITY OF TALENT
STANDARD DETAIL

1" - 2" SERVICE WITH 5/8"x3/4"
METER SETTING - NEW MAIN

SCALE: NONE

NO. DATE INITIAL REVISIONS

DATE: 02/08 DRAWN: JMB APPROVED: JLS

* 1" - 2" SERVICE WITH 5/8"x3/4"
METER SETTING - NEW MAIN

DWG. NO. 101A
NOTE: UPON COMPLETION OF REQUIRED TESTS AND AFTER CONFIRMATION OF RESULTS, CITY TO REMOVE DISINFECTION TREE ASSEMBLY AND PLUG 2" TAP WITH BRASS PLUG. REQUIRES CONTRACTOR ASSISTANCE WITH EXPOSING AND KEEPING END OF MAIN CLEAR AND ACCESSIBLE (ON SADDLES OK).

D.I.P., M.I. CLASS 50 - 18' LENGTHS
W/ JOINT RESTRAINT GLDS.
(SEE TABLE FOR NUMBER OF FULL LENGTHS)

SIZE TABLE
4"  3
6"  3
8"  3
12" 5

PRESSURE TEST, DISINFECTION,
DECHLORINATION AND
SAMPLING TREE W/ END DRAIN

SCALE: NONE  DWG. NO. 102
NOTE: INSURE AGAINST FLUSHED WATER RE-ENTERING THE PIPELINE.

4"-12" PIPE — FLUSH POINT IS SAME SIZE AS PIPE BEING INSTALLED.
LARGER THAN 12" PIPE — TO BE DETERMINED BY CITY.
1. AN OFFSET SIMILAR TO STD DETAIL 105 WILL BE REQUIRED TO ALLOW THE USE OF A STANDARD 3"-6" BURY HYDRANT WHEN MAIN IS LARGER THAN 8" OR MAIN HAS MORE THAN 3'-0" OF COVER.

A MINIMUM OF 5'-0" CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANT BARREL. WHEN HYDRANT IS WITHIN PLANTER AREA, ADEQUATE SIDE AND REAR CLEARANCES FROM CURB LINES MUST BE MET BY THIS MINIMUM. CONCRETE SLAB WILL BE POURED CURB TO CURB AND A MINIMUM OF 2' AROUND FIRE HYDRANT WHEN IN PLANTER AREAS. BOLLARDS (SEE DETAIL NO. 112) MAY BE REQUIRED.
1. A MINIMUM OF 5'-0" CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANT BARREL. WHEN HYDRANT IS WITHIN PLANTER AREA, ADEQUATE SIDE AND REAR CLEARANCES FROM CURB LINES MUST BE MET BY THIS MINIMUM. CONCRETE SLAB WILL BE POURED CURB TO CURB AND A MINIMUM OF 2' AROUND FIRE HYDRANT WHEN IN PLANTER AREAS. BOLLARDS (SEE DETAIL NO. 112) MAY BE REQUIRED.
1. PE 3408 MUST ALWAYS BE INSTALLED WITH GRADE RISING FROM CORP STOP TO ANGLE STOP (NO HIGH POINTS).

2. EXISTING PIPE TO BE TAPPED BY CITY, NEW PIPE TO BE TAPPED BY CONTRACTOR.
1. FURNISH AND INSTALL JOINT RESTRAINT GLANDS
THRUXT BLOCK SIZING TABLE

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<th>PIPE SIZE (INCHES)</th>
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<th>45, 22.5, 11.25 BEND # THRUST</th>
<th>BEARING AREA</th>
<th>VALVES, TEES, DEAD ENDS # THRUST</th>
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<tr>
<td>4</td>
<td>2700</td>
<td>2.0</td>
<td>1650</td>
<td>1.5</td>
<td>1950</td>
<td>1.5</td>
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<tr>
<td>6</td>
<td>6000</td>
<td>4.0</td>
<td>3450</td>
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<td>4350</td>
<td>3.0</td>
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<tr>
<td>8</td>
<td>10800</td>
<td>7.5</td>
<td>6150</td>
<td>4.5</td>
<td>7650</td>
<td>5.5</td>
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<td>12</td>
<td>24000</td>
<td>16.0</td>
<td>13650</td>
<td>9.5</td>
<td>16950</td>
<td>11.5</td>
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NOTE:
THURCT CALCULATIONS ARE BASED UPON 150 PSI WORKING PRESSURE AND A SOIL BEARING CAPACITY OF 1500 PSF. CAUTION MUST BE USED BY THE DESIGNER TO BE SURE BEARING LOAD CAPACITY OF THE SOIL IS AT LEAST 1500 PSF.

NOTES:
1. THE BEARING SURFACE SHALL BE AT LEAST THE MINIMUM SHOWN ABOVE AND SHALL BE AGAINST UNDISTURBED MATERIAL.
2. THE MINIMUM THICKNESS OF THE BLOCK SHALL BE 12” OR TWICE THE PIPE DIAMETER WHICH EVER IS GREATER.
3. 8 MIL PLASTIC MUST BE INSTALLED BETWEEN ALL CONCRETE AND PIPE OR FITTINGS.
4. CAUTION SHOULD BE EXERCISED TO INSURE BOLTS ARE NOT COVERED WITH CONCRETE.
5. 3,300 PSI CONCRETE
CUT-IN SLEEVE

NEW MAIN

D.I. PIPE

FL X MJ

DUAL PURPOSE CUT IN SLEEVE

FL X MJ

DUAL PURPOSE CUT IN SLEEVE

D.I. PIPE

EXISTING MAIN

USE RESTRAINED JOINT HERE

WATER VALVE

USE RESTRAINED JOINT HERE

CITY OF TALENT

STANDARD DETAIL

SCALE: NONE  DWG. NO. 110

NO.  DATE  INITIAL  REVISIONS

DATE: 02/08  DRAWN: JLB  APPROVED: JLS
CITY SPECIFIED CLASS OF TRENCH BACKFILL, 1 SACK SAND SLURRY.

3/4" MINUS CRUSHED ROCK PIPE ZONE

WATER PIPE

PROVIDE BELL HOLES FOR UNIFORM PIPE SUPPORT

MIN 18" + I.D. FOR 24" PIPE AND LARGER

MIN 12" + I.D. FOR PIPE SMALLER THAN 24"

3/4" MINUS CRUSHED ROCK BEDDING, 90% R.D.

30" MIN. 42" MAX. TO BE USED ONLY WITH PRIOR CITY APPROVAL

FINISHED SURFACE

36"
3 BOLLARDS SPACED IN A 5-FOOT EQUILATERAL TRIANGLE AROUND HYDRANT

ROUND OFF, TOP OF CONCRETE FILLER.

6" Ø STEEL PIPE FILLED WITH CONCRETE, PAINT CHROME-YELLOW COLOR

SET IN CONCRETE

* IF HYDRANT IS LOCATED IN LANDSCAPED, CURBED PLANTER, WITH 5' FROM FIRE HYDRANT TO FACE OF CURB IN EACH DIRECTION, BOLLARDS WILL NOT BE REQUIRED.
June 17, 1998

Mr. Tim Dedrick
Public Works Director
City of Talent
P.O. Box 445
Talent, Oregon 97540

RE: Public Works Standard Details
MAI Job No. 32-110

Dear Tim:

Enclosed is a complete set of replacement pages for your Standard Details. We made the changes you requested.

Sincerely,

MARQUESS & ASSOCIATES, INC.

[Signature]
Charles A. Strom, P.E.

CAS/pc

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<td>Monument Case Detail, New Pavement</td>
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<tr>
<td>96-52</td>
<td>Monument Case Detail, Existing Pavement</td>
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<td>Meter Installation and Location</td>
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<td>101</td>
<td>1&quot; Service With 5/8&quot; x 3/4&quot; Meter Setting</td>
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<td>102</td>
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<td>Full Size Flush Point</td>
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<td>104</td>
<td>Hydrant Installation For Main, 14 Inch and Smaller</td>
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<td>105</td>
<td>Hydrant Installation For Main, 16-Inch and Larger</td>
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<td>106</td>
<td>1-Inch Air Valve</td>
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<td>108</td>
<td>Blowoff Assembly</td>
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<td>113</td>
<td>Support Pier Detail</td>
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<td>Basement form for Corporation</td>
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Driveway Apron

Section A-A

Notes:

1. RESIDENTIAL DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL HAVE A NOMINAL THICKNESS OF 6".
2. CONCRETE FOR COMMERCIAL USE AND ALLEY APPROACHES SHALL HAVE A NOMINAL THICKNESS OF 12" WITH #4 REBAR 6" O.C. BOTH WAYS. (2" CLEAR)
3. MINIMUM DRIVEWAY WIDTH 12 FEET.
4. IF DRIVEWAY IS LESS THAN 15' WIDE DO NOT PLACE ISOLATION JOINT AT CENTER.
5. IF APRON AND DRIVEWAY ARE Poured AT THE SAME TIME, PLACE ISOLATION JOINT WHERE THEY MEET.
6. WHERE SIDEWALK IS ADJACENT TO CURB, CONSTRUCT A CONTRACTION JOINT WITH CURB JOINT (10") AND IN BETWEEN (9").
7. ALL MIX SHALL BE VIBRATED OR TAMMED, AS DIRECTED, FOR COMPACTION.
8. GRANULAR MATERIAL UNDER DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL BE CRUSHED ROCK, MINIMUM 3", COMPACTED TO 95% IN DRIVEWAYS AND 90% IN SIDEWALKS (ODOT TM-106).
9. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
10. ALL WORK, MATERIALS & CURING SHALL CONFORM TO 1990 OREGON APWA STANDARD SPEC'S, AS AMENDED BY THE CITY.
Driveway/Alley Apron With Parking Strip

Section A-A

Notes:

1. RESIDENTIAL DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL HAVE A NOMINAL THICKNESS OF 6".

2. CONCRETE FOR COMMERCIAL USE AND ALLEY APPROACHES SHALL HAVE A NOMINAL THICKNESS OF 12" WITH #4 REBAR 6" O.C. BOTH WAYS. (2" CLEAR)

3. MINIMUM DRIVEWAY WIDTH 12 FEET.

4. IF DRIVEWAY IS LESS THAN 15' WIDE DO NOT PLACE ISOLATION JOINT AT CENTER.

5. IF APRON AND DRIVEWAY ARE Poured AT THE SAME TIME, PLACE ISOLATION JOINT WHERE THEY MEET.

6. WHERE SIDEWALK IS ADJACENT TO CURB, CONSTRUCT A CONTRACTION JOINT WITH CURB JOINT (10") AND IN BETWEEN (5")

7. ALL MIX SHALL BE VIBRATED OR TAMPEd, AS DIRECTED, FOR COMPACTION.

8. GRANULAR MATERIAL UNDER DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL BE CRUSHED ROCK, MINIMUM 3", COMPACTED TO 95% IN DRIVEWAYS AND 90% IN SIDEWALKS (XDOT TM-103)

9. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO

10. ALL WORK, MATERIALS & CURING SHALL CONFORM TO 1990 OREGON APWA STANDARD SPEC'S, AS AMENDED BY THE CITY.
Center Ramp For Property Line Sidewalk  
(RESIDENTIAL AREAS)

Center Ramp For Curb Line Sidewalk  
(RESIDENTIAL AREAS)

End Ramps For Property Line Sidewalks  
(COMMERCIAL AREAS OR ARTERIAL STREETS)

NOTES
1) THE "AMERICANS WITH DISABILITIES ACT" REQUIRES THAT ACCESS RAMPS TO SIDEWALKS HAVE NO SLOPES GREATER THAN 12 HORIZONTAL TO 1 VERTICAL.

2) BASE ROCK SHALL BE MIN. OF 3" COMPACTED CRUSHED ROCK, TO 90% RELATIVE DENSITY (DOT TM-106).

3) P.C.C. SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO

4) IN CERTAIN AREAS THE RAMP MAY BE LOCATED TO MATCH CROSSWALKS OR TWO RAMPS MAY BE REQUIRED.

5) IN AREAS OF EXISTING CURB AND GUTTER, REMOVE AND REPLACE BOTH CURB AND GUTTER.

SECTION THROUGH RAMP - ALL VIEWS
NOTES:
1) COMPACT ALL BACKFILL BEHIND CURB TO 90% MINIMUM.
Notes:

1. SIDEWALKS SHALL HAVE A NOMINAL THICKNESS OF 4".
2. SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL HAVE A NOMINAL THICKNESS OF 6".
3. WHERE SIDEWALK IS ADJACENT TO CURB, PLACE CONSTRUCTION JOINT IN LINE WITH CURB JOINT (10') AND IN BETWEEN (5').
4. ALL MIX SHALL BE VIBRATED OR TAMPEd, AS DIRECTED, FOR COMPACTION.
5. GRANULAR MATERIAL UNDER SIDEWALKS & DRIVEWAY SHALL BE CRUSHED ROCK, COMPACTED TO 95% IN DRIVEWAY AREAS AND 90% IN SIDEWALKS (ODOT TM-106).
   a. 2" MIN. THICKNESS UNDER SIDEWALKS.
   b. 3" MIN. THICKNESS UNDER DRIVEWAYS.
6. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
7. ALL WORK & MATERIALS SHALL CONFORM TO 1990 OREGON APWA STANDARD SPECS. AS AMENDED BY THE CITY.
Notes:

1. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
2. ALL WORK & MATERIALS SHALL CONFORM TO 1990 OREGON APWA STANDARD SPEC'S, AS AMENDED BY THE CITY.
3. INSTALL CONTRACTION JOINTS EVERY 10', AND 3/8" ISOLATION JOINTS EVERY 100', AND AT END OF CURB RETURNS

CITY OF TALENT
STANDARD DETAIL
CURB & GUTTER DETAIL
SCALE: NONE
DWG. NO. 96-06
Notes:
1. CONCRETE SHALL BE CLASS 3300 – 3/4" 0.54 W/C RATIO.
2. FRAME AND RISER RINGS SHALL BE SEALED WITH GROUT, AND KENT SEAL, RESPECTIVELY.
3. FORM STRAIGHT "U" CHANNEL WITH 1:12 SLOPE.
4. KENT SEAL ON SIDE, FULL CHANNEL PIPE WITH TOP HALF REMOVED IS ACCEPTABLE.
5. MAKE ADJUSTMENT CHANGES WITH UNIFORM "U" CHANNEL, WITH SMOOTH CURVED PATH.
6. MAKE CHANGES IN CHANNEL SIZE WITH A SMOOTH, TAPERING TRANSITION.
7. FINISH PIPE ENDS FLUSH WITH INSIDE WALLS, GROUTED.
8. PIPE CONNECTION SHALL CONFORM WITH APWA OREGON CHAPTER, 1990 STANDARD SPECS FOR PUBLIC WORKS CONSTRUCTION SECTION 306.3.01B.
9. STANDARD MANHOLE COVER MARKED "U" FOR DRAINAGE.
10. MANHOLE SHALL CONFORM WITH APWA OREGON CHAPTER 1990 STANDARD SPECS FOR PUBLIC WORKS CONSTRUCTION, AS AMENDED BY THE CITY.

Outside of Travelled Way
Manhole Adjustment

Alternate Manhole
Reinforced Flat-Top

<table>
<thead>
<tr>
<th>PIPE SIZE Ø</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tr>
<td>24&quot; OR LESS</td>
<td>48&quot;</td>
<td>6&quot;</td>
<td>24&quot;</td>
<td>6&quot;</td>
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<tr>
<td>27&quot; TO 42&quot;</td>
<td>72&quot;</td>
<td>6&quot;</td>
<td>24&quot;</td>
<td>9&quot;</td>
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<tr>
<td>48&quot; &amp; LARGER</td>
<td>SPECIAL MANHOLE STRUCTURE</td>
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STORM DRAIN
MANHOLE DETAIL

CITY OF TALENT
STANDARD DETAIL

DATE: 6-17-98  DRAWN: JF  APPROVED: TAO

SCALE: NONE  DWG. NO. 96-10
CUT CIRCLE IN AC WITH SAW OR JACKHAMMER & SPADE BIT AND REMOVE PAVEMENT.

SEE NOTES AND OPTIONS BELOW

CAST IRON SUBURBAN COVER & FRAME PER 1990 OREGON APWA STD. DWG. 313

MANHOLE RISER RINGS

EXISTING PAVEMENT

ROADWAY BASE

SEE OPTIONS BELOW

GRADE RINGS WITH KENT SEAL IN JOINTS

SECTION A-A

NOTES:

1) CONCRETE TO BE CLASS 3300-3/4"
   0.54 W/C RATIO

2) AC TO BE CLASS "C"
   IN 3" MAX. LIFTS, ALL BUT TOP LIFT SHALL BE COMPACTED WITH PNEUMATIC TAMPER WITH 6" MAX. HEAD DIAMETER.

MANHOLE COLLAR OPTIONS

OPTION 1:
- 5" CONCRETE
- 3" AC

OPTION 2:
- ALL AC
- (SEE NOTE 2)

CITY OF TALENT
STANDARD DETAIL

MANHOLE ADJUSTMENT DETAIL

SCALE: NONE DWG. NO. 96-11
Perspective View

Elevation

Section B-B

Notes

1) Surf ace cross-slope for new construction shall be 1/4" rise per foot from top of curb to back of sidewalk.

2) Existing curb and gutter shall be removed to the nearest construction joint or curb joint when joint is within 4 feet of the transition point.

3) All concrete shall be sawcut and a smooth, uniform joint provided.

4) Curing compound shall be applied immediately after surface is finished: white pigment recommended, clear pigment acceptable.

5) Floor shall be formed on: undisturbed, stable soil; compacted base (10% R-1, 3/4-6 crushed rock, 6" min. thick).

6) Set section joints in 1:2 mortar and mortar joint sealant ST-8, 1" wide. Sealant shall meet FED. SPECS. SS-S-10201 (CSA-FSS).

7) All concrete shall be formed and vibrated to remove voids.

8) Pipe(s) shall be flush with inside wall.

9) All concrete shall be class 3300 -- 3/4" 0.54 w/c ratio.

10) Surface shall have a finished texture that will not be slick when wet (medium broom finish), or match adjacent sidewalk.

11) All metal parts shall be hot dipped galvanized after fabrication.

12) Cover shall be Inland Foundry Co., Inc., 206 manhole ring and cover (or equal), suitable for heavy traffic loading.

Section A-A

Plan View

CITY OF TALENT
STANDARD DETAIL

CONCRETE CURB INLET

SCALE: NONE DWG. NO. 96-20
**Perspective View**

**Section A-A**

**Plan View**

**Notes**

1. SURFACE CROSS-SLOPE FOR NEW CONSTRUCTION SHALL BE 1/4" RISE PER FOOT FROM TOP OF CURB TO BACK OF SIDEWALK.

2. ALL CONCRETE SHALL BE FORMED AND VIBRATED TO REMOVEVOIDS.

3. CONCRETE SHALL BE CLASS 3300 – 3/4" 0.54 W/C RATIO

4. SURFACE HAVE A FINISHED TEXTURE THAT WILL NOT BE SLICK WHEN WET (MEDIUM BROOM FINISH), OR MATCH EXISTING ADJACENT SIDEWALK.

5. ALL METAL PARTS (EXCEPT REBAR) SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
AREA CATCH BASIN DETAIL

CAST IRON OR STEEL GRATE
1 1/2" x 6" MAX. OPENINGS

PAVED AREA

SLOPE TO GRATE

MIN. 24" SQ. or ROUND

2" FLANGE

1/4 BEND OR WELDED BAFFLE

WELDED SLEEVE

MIN. 3" OUTLET

1/4" ASPHALT COATED CAST IRON
OR
10 GA. ASPHALT COATED STEEL
OR
4" THICK REINF. CONCRETE
OR
24" RCP

3" MIN. 1"-0 CRUSHED ROCK
COMPACTED TO 95% OPTIMUM

AREA CATCH BASIN

CITY OF TALENT
STANDARD DETAIL

NO. DATE INITIAL REVISIONS

DATE: 6-17-98 DRAWN: L if APPROVED: TAD

AREA CATCH BASIN

SCALE: NONE DWG. NO. 96-22
NOTES:

1) CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
2) MIX WILL BE VIBRATED OR TAMPED AS DIRECTED BY THE ENGINEER.
3) EXPANSION JOINTS SHALL BE CONSTRUCTED OF 3/8" ASPHALT IMPREGNATED FELT.
4) VALLEY GUTTER SHALL PASS A WATER TEST TO ASSURE FLOW.
NOTES:

1. COLD MIX AC MAY BE USED AS TEMPORARY PATCH ONLY FOR NO LONGER THAN 72 HOURS, WEATHER PERMITTING.

2. ALL STEEL TRAFFIC PLATES IN TRAVELLED AREAS MUST BE "RAMPED" WITH COLD MIX AC TO ALLOW SMOOTHER TRANSITION.
   a) MINIMUM 12" LAP OF STEEL PLATES ONTO EXISTING PAVEMENT.
   b) MINIMUM 3/4" STEEL PLATE THICKNESS.
TRENCH DETAIL
IN MORATORIUM AREAS

NOTES
1) MORATORIUM STREETS SHALL NOT BE CUT EXCEPT FOR EMERGENCY UTILITY REPAIR.

2) AFTER PATCHING, ENTIRE SURFACE SHALL BE INFRARED HEATED, BLENDED, AND COMPACTED.

3) INFRARED PATCHING WILL BE WARRANTED FOR 18 MONTHS FROM DATE OF COMPLETION.

4) INFRARED PATCHING SHALL BE PERFORMED WITHIN 14 CALENDAR DAYS OF TRENCH PATCH WORK (WEATHER PERMITTING).

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DATE: 6-17-98  DRAWN: KGF  APPROVED: TAD

CITY OF TALENT
STANDARD DETAIL

TRENCH IN
MORATORIUM STREET

SCALE: NONE  DWG. NO. 96-31
MONUMENTS PLACED AT:

1. STREET CENTERLINE INTERSECTIONS.
2. BEGINNING OF CURVE ON CENTERLINE.
3. END OF CURVE ON CENTERLINE.
4. ON CENTERLINE AT END OF STREET OR STREET THAT IS 1/2" OR LONGER FROM ITS CENTERLINE INTERSECTION WITH THE INTERSECTING STREET.
5. AT RADIUS POINT OF CUL-DE-SAC.
6. ON OFFSET CUL-DE-SAC AT BOTH CENTERLINE TANGENT POINT AND AT RADIUS POINT.
7. ANY EXISTING MONUMENT THAT IS DESTROYED SHALL BE REPLACED.
8. AT ANY OTHER POINTS THAT THE CITY MAY REQUIRE MONUMENTS TO BE PLACED.

Section A-A

MONUMENT SHALL CONFORM TO ORS-92.060

MONUMENT DETAIL

SCALE: NONE
DWG. NO. 96-50
NOTES
1) INSTALL MONCASE AFTER BASE ROCK IS COMPACTED AND PRIOR TO PAVING.
2) BASE ROCK SHALL BE RE-COMPACTED TO 95% MAX. DENSITY AFTER PLACEMENT OF CASE.

MONUMENT CASES PLACED AT:
1) STREET CENTERLINE INTERSECTIONS.
2) BEGINNING OF CURVE ON CENTERLINE.
3) END OF CURVE ON CENTERLINE.
4) ON CENTERLINE AT END OF STUB STREET THAT IS 150' OR LONGER FROM ITS CENTERLINE INTERSECTION WITH THE INTERSECTING STREET.
5) AT RADIUS POINT OF CUL-DE-SAC,
6) ON OFFSET CUL-DE-SAC AT BOTH CENTERLINE TANGENT POINT AND AT RADIUS POINT.
7) ANY EXISTING MONUMENT THAT IS DESTROYED SHALL BE REPLACED.
8) AT ANY OTHER POINTS THAT THE CITY MAY REQUIRE MONUMENTS TO BE PLACED.

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DATE: 6-17-98  DRAWN: LIF  APPROVED: TAO

CITY OF TALENT
STANDARD DETAIL
MONUMENT CASE DETAIL NEW PAVEMENT

SCALE: NONE  DWG. NO. 96-51
NOTES
1) CONCRETE SHALL BE CLASS 3300 – 3/4" 0.54 W/C RATIO

OPTION A
3" OF WELL COMPACTED CLASS "C" AC OVER 5" OF CONCRETE.

OPTION B
8" MIN. OF WELL COMPACTED CLASS "C" AC IN 3 LIFTS.

MONUMENT CASES PLACED AT:
1) STREET CENTERLINE INTERSECTIONS.
2) BEGINNING OF CURVE ON CENTERLINE.
3) END OF CURVE ON CENTERLINE.
4) ON CENTERLINE AT END OF STUB STREET THAT IS 150' OR LONGER FROM ITS CENTERLINE INTERSECTION WITH THE INTERSECTING STREET.
5) AT RADIUS POINT OF CUL-DE-SAC.
6) ON OFFSET CUL-DE-SAC AT BOTH CENTERLINE TANGENT POINT AND AT RADIUS POINT.
7) ANY EXISTING MONUMENT THAT IS DESTROYED SHALL BE REPLACED.
8) AT ANY OTHER POINTS THAT THE CITY MAY REQUIRE MONUMENTS TO BE PLACED.

MONUMENT CASE DETAIL
EXISTING PAVEMENT

SCALE: NONE
DWG. NO. 96–52
PLAN INSTALLATION

AREA IN FRONT OF HUB TO REMAIN CLEAR FOR SETTING OF PINS

METER PAD

PROFILE INSTALLATION

TYPICAL STAKE

CONTRACTOR TO BACKFILL PIPE WITH SAND

FINISHED GRADE

TRENCH SHALL BE 3' AT MAIN TO 2' BELOW FINISHED GRADE AT METER PAD

TYPICAL STAKE

MINIMUM 6" CLEARANCE

1. WATER METER STAKE TO GIVE OFFSET, NUMBER OF METERS, AND CUT OR FILL TO FINISHED GRADE (SEE TYPICAL STAKE).

*IF PARKWAY SITUATION THEN 2' FROM FRONT EDGE OF SIDEWALK

NOTE: IF RIGHT-OF-WAY WIDTHS/STREET WIDTHS PRECLUDE FH, ARV, WMs FROM BEING WITHIN RIGHT-OF-WAY, THEN DESIGN ENGINEER / SURVEYOR / OWNER / DEVELOPER TO CONFIRM EXACT LOCATIONS OF SUCH ITEMS WITH CITY.

DATE

6/98

CITY OF TALENT

METER INSTALLATION AND LOCATION

STANDARD DETAIL NO. 100
CITY OF TALENT

1) PERFORM SERVICE LINE TAPPING.
2) FURNISH AND INSTALL COPPER SERVICE LINE.
3) FURNISH AND INSTALL CORPORATION AND ANGLE STOPS.
4) FURNISH AND INSTALL YOKE BAR, CUSTOMER VALVE, METER BOX, BOX LID.
5) INSPECT.
6) FURNISH AND INSTALL METER, YOKE EXPANDER

CONTRACTOR

1) EXCAVATION AND BACKFILL.

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<tbody>
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<td>1&quot; SERVICE WITH 5/8&quot; X 3/4&quot; METER SETTING</td>
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STANDARD DETAIL NO. 101
2" X 6" NIPPLE, GALV.

2" TEE, GALV.

2" G.V., BRASS, SCREW

3/4" HOSE BIB

2" X 3/4" RED., GALV.

3/4" NIPPLE, CLOSE, GALV.

2" STD. PIPE, GALV.

4" - 6" OR AS REQUIRED

NOTE: UPON COMPLETION OF REQUIRED TESTS AND AFTER CONFIRMATION OF RESULTS, CITY TO REMOVE DISINFECTION TREE ASSEMBLY AND PLUG 2" TAP WITH BRASS PLUG. REQUIRES CONTRACTOR ASSISTANCE WITH EXPOSING AND KEEPING END OF MAIN CLEAR AND ACCESSIBLE.

2" ELL, GALV., ST.

PLUG, M.J./1/2" TAP

D.I.P., M.J. CLASS 50 - 18" LENGTHS W/JOINT RESTRAINT GLDS.
(SEE TABLE FOR NUMBER OF FULL LENGTHS)

SIZE TABLE

<table>
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<td>8&quot;</td>
<td>3</td>
</tr>
<tr>
<td>12&quot;</td>
<td>5</td>
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DATE       CITY OF TALENT

6/98       PRESSURE TEST, DISINFECTION, DECHLORINATION, AND SAMPLING TREE W/ END DRAIN

STANDARD DETAIL NO. 102
4" - 12" Pipe - Flush point is same size as pipe being installed.

Larger than 12" pipe - to be determined by City.
1. An offset similar to standard detail no. 105 will be required to allow the use of a standard 3'-6" bury hydrant when main is larger than 8" or main has more than 3'-0" of cover.

2. A minimum of 5'-0" clear space shall be maintained around the circumference of the hydrant barrel. When hydrant is within planter area, adequate side and rear clearances from curb lines must be met by this minimum. Concrete slab will be poured curb to curb and a minimum of 2' around fire hydrant when in planter areas. Bollards (see detail no. 112) may be required.
1. A MINIMUM OF 5'-4" CLEARS SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT BARREL. WHEN HYDRANT IS WITHIN PLANTER AREA, ADEQUATE SIDE AND REAR CLEARANCES FROM CURB LINES MUST BE MET BY THIS MINIMUM. CONCRETE SLAB WILL BE POURED CURB TO CURB AND A MINIMUM OF 2' AROUND FIRE HYDRANT WHEN IN PLANTER AREAS. BOLLARDS (SEE DETAIL NO. 112) MAY BE REQUIRED.
1. COPPER PIPE MUST ALWAYS BE INSTALLED WITH GRADE RISING FROM CORP STOP TO ANGLE STOP (NO HIGH POINTS).

**DATE**

| 6/98 |

**CITY OF TALENT**

**1" AIR VALVE**

**STANDARD DETAIL NO. 106**
1. FURNISH AND INSTALL JOINT RESTRAINT GLANDS
GENERAL NOTES:
1. THE BEARING SURFACE SHALL BE AT LEAST THE MINIMUM SHOWN BELOW AND SHALL BE AGAINST UNDISTURBED MATERIAL.
2. THE MINIMUM THICKNESS OF THE BLOCK SHALL BE 12" OR TWICE THE PIPE DIAMETER WHICH EVER IS GREATER.
3. 8 MIL PLASTIC MUST BE INSTALLED BETWEEN ALL CONCRETE AND PIPE OR FITTINGS.
4. CAUTION SHOULD BE EXERCISED TO INSURE BOLTS ARE NOT COVERED WITH CONCRETE.
5. 3,300 PSI CONCRETE

THRUST BLOCKS
© POUNDS OF THRUST / © MINIMUM AREA - SQ. FT.

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>90° BEND</th>
<th>45°, 22½°, 11¼° BENDS</th>
<th>VALVES, TEES, DEAD ENDS</th>
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<tr>
<td></td>
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<td># THRUST / MIN AREA</td>
<td># THRUST / MIN AREA</td>
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<td>4</td>
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<tr>
<td>12</td>
<td>24000</td>
<td>13650</td>
<td>16950</td>
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1. BASED UPON 150 PSI WORKING PRESSURE.
2. BASED UPON SOIL WITH 1500 PSF BEARING CAPACITY. CAUTION MUST BE USED BY THE DESIGNER TO ENSURE BEARING LOAD CAPACITY OF SOIL IS AT LEAST 1500 PSF.

DATE       CITY OF TALENT
6/98        THRUST BLOCKS

STANDARD DETAIL NO. 109
TEMPORARY BLIND FLANGE INSERT

INSERTED HERE FOR PURPOSES OF FLUSHING AND TESTING

D.I. PIPE

FL X MJ
DUAL PURPOSE CUT IN SLEEVE

FL X MJ
DUAL PURPOSE CUT IN SLEEVE

D.I. PIPE

NEW MAIN

EXISTING MAIN

USE RESTRAINED JOINT HERE

USE RESTRAINED JOINT HERE

PERMANENT FL GASKET TO GO HERE

<table>
<thead>
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<tbody>
<tr>
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<td>CUT - IN SLEEVE</td>
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</table>
FINISHED SURFACE

36" MINUS CRUSHED ROCK PIPE ZONE

3/4" MINUS CRUSHED ROCK BEDDING, 90% R.D.

WATER PIPE

PROVIDE BELL HOLES FOR UNIFORM PIPE SUPPORT

MIN. 18" + I.D. FOR 24" PIPE AND LARGER. MIN. 12" + I.D. FOR PIPE SMALLER THAN 24"

30" MIN. 42" MAX.

TO BE USED ONLY WITH PRIOR CITY APPROVAL

CITY SPECIFIED CLASS OF TRENCH BACKFILL, 1 SACK SAND SLURRY.

DATE
6/98

CITY OF TALENT

TYPICAL TRENCH DETAIL

STANDARD DETAIL NO. 111
* 3 BOLLARDS SPACED IN A 5 FOOT EQUILATERAL TRIANGLE AROUND HYDRANT

ROUND OFF TOP OF CONCRETE FILLER

6" Ø STEEL PIPE FILLED WITH CONCRETE, PAINT CHROME - YELLOW COLOR

SET IN CONCRETE

* IF HYDRANT IS IN LANDSCAPED, CURBED PLANter, WITH 5' FROM FIRE HYDRANT TO FACE OF CURB IN EACH DIRECTION, BOLLARDS WILL NOT BE REQUIRED.

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