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T3 ............Wiring Requirements for Street Light Installations
T4 ............Davit Pole
T5 ............Street Lighting Service Cabinet
T6 ............Street Lighting Service Wiring Diagram
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T8 ............Street Light Base Locations

RECYCLED WATER DRAWINGS

RW1 ........Recycled Water Valve Box and Lid
GENERAL NOTES

1. THE CITY OF MERIDIAN REQUIRES WATER MAINS TO BE PLACED 4' OFF OF LIP OF CURB.

2. THIS LOCATION STANDARD SHALL BE USED IN ALL UNDERGROUND CONSTRUCTION UNLESS EXISTING CONDITIONS DO NOT PERMIT.

3. WRITTEN PERMISSION FROM ANY UTILITY IS REQUIRED IF THEIR CORRIDOR IS INFRINGED UPON.

4. PRESSURIZED IRRIGATION MUST BE OUTSIDE PUBLIC R/W EXCEPT FOR CROSSINGS WHICH MUST BE INSTALLED AT A MAXIMUM DEPTH OF 2'-6" IN AN AWWA C-900 PIPE SLEEVE. THE PUBLIC WORKS DEPARTMENT MUST INSPECT ALL CROSSINGS PRIOR TO BACKFILL.
NOTE
ALL GRAVELED ROADWAYS SHALL BE CENTERED OVER THE UTILITIES.
NOTES

1. IF A RESIDENTIAL FIRE SPRINKLER SYSTEM IS TO BE INSTALLED, THE PLUMBING INSPECTOR WILL INSPECT THE INSTALLATION THROUGH THE BACKFLOW DEVICE. THE FIRE INSPECTOR WILL INSPECT THE SYSTEM BEYOND THE BACKFLOW DEVICE.

2. THE PUBLIC WORKS INSPECTOR WILL INSPECT THE INSTALLATION OF COMMERCIAL FIRE LINES, AND OVERSEE THE BACTRIALOGICAL SAMPLES TO THE BACKFLOW DEVICE. THE FIRE INSPECTOR WILL OVERSEE THE PRESSURE TESTING OF THE FIRE LINE TO THE JURISDICTIONAL VALVE.

LEGEND

INSPECTION JURISDICTION
PW  PUBLIC WORKS
PI  PLUMBING INSPECTOR

INSTALLATION REQUIREMENT
LFC  LICENSED FIRE CONTRACTOR
LP/E  LICENSED PLUMBER OR EXCAVATOR

REVISED 2013
CITY OF MERIDIAN
UTILITY PROJECT

PINE TRUNK SEWER CONNECTOR
IMPROVING THE QUALITY OF LIFE FOR ALL OUR RESIDENTS

GENERAL CONTRACTOR: INSERT CONTRACTOR HERE
PROJECT MANAGER: JOHN DOE
CONSULTANT: ABC ENGINEERS
ESTIMATED COMPLETION: SUMMER 2012

FOR PROJECT INFORMATION CALL (208) 898-5500
www.meridiancity.org

REVISED 2013
CITY OF MERIDIAN SUPPLEMENTAL SPECIFICATIONS TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION
CAPITAL PROJECT INFORMATIONAL SIGN

STANDARD DRAWING NO. G4
NOTES

1. FLUSH MOUNT TEST STATION SHALL BE COLORED BLUE FOR POTABLE WATER, PURPLE FOR RECLAIMED WATER, GREEN FOR SEWER AND ORANGE FOR COMMUNICATIONS.

2. MARKER POST SHALL BE FIBERGLASS WITH POLYTECH COATING COLORED BLUE FOR POTABLE WATER, PURPLE FOR RECLAIMED WATER, GREEN FOR SEWER AND ORANGE FOR COMMUNICATIONS.

3. PLACE LOCATING WIRE IN 1" POLYETHYLENE I.P.S CLASS 200 PIPE.

4. LOCATING WIRE AND GROUNDING WIRE SHALL BE CONNECTED TO LOCATING PLATE TERMINALS ON TERMINAL BOARD.

REVISED DEC 2017

CITY OF MERIDIAN
SUPPLEMENTAL
SPECIFICATIONS
TO THE IDAHO STANDARDS FOR
PUBLIC WORKS CONSTRUCTION

UTILITY MAIN LOCATE
STATION DETAIL

STANDARD DRAWING NO.
G5
1. CASING LENGTH SHALL BE AT LEAST 3X+D IN LENGTH, WHERE X IS THE DISTANCE FROM THE CENTER OF THE NONPOTABLE PIPELINE OR DITCH TO THE REQUIRED BOTTOM OF THE CASING AND D IS THE DIAMETER OF THE IRRIGATION PIPELINE. (MINIMUM CASING LENGTH SHALL BE 20')

2. CASING SHALL BE CENTERED UNDER IRRIGATION PIPELINE

3. ANNULAR SPACE SHALL BE FILLED PER ISPWC AND CITY SUPPLEMENTAL SPECIFICATIONS. SEE SECTIONS 308 AND 310
NOTES

1. VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

2. PIPE SLEEVE/CASING ASSEMBLY SHALL BE INSPECTED BY MERIDIAN PUBLIC WORKS
   DEPARTMENT PRIOR TO INSTALLATION IN THE TRENCH.

3. WATER-TIGHT BOOTS SHALL BE INSTALLED ON EACH END OF THE PIPE
   SLEEVE/CASING.

4. BELL RESTRAINTS ARE REQUIRED ON ALL WATER, RECYCLED WATER AND
   PRESSURE SEWER PIPING PLACED WITHIN THE PIPE SLEEVE/CASING.

5. IN EMERGENCY SITUATIONS AND WITH WRITTEN APPROVAL OF THE CITY ENGINEER
   OR THE INSPECTOR AS THE ENGINEER'S REPRESENTATIVE, REDWOOD SKIDS MAY
   BE USED PER ISPWC SD-307, SECTION A-A.

6. THE ANNULAR SPACE BETWEEN THE CARRIER PIPE AND CASING PIPE SHALL BE
   FILLED IN ACCORDANCE WITH SECTIONS 308 AND 310. AN EXCEPTION MAY BE
   ALLOWED IF THE SLEEVE/CASING IS FOR NON-POTABLE SEPARATION
   REQUIREMENTS OR SLEEVING/CASING IS LESS THAN 10 FEET DEEP AND ABOVE
   SEASONAL HIGH GROUNDWATER. ALL EXCEPTIONS MUST BE APPROVED IN WRITING
   BY THE CITY ENGINEER,
EXTEND MARKER AND PAINT
SEWER – FLUORESCENT GREEN
WATER – FLUORESCENT BLUE
RECYCLED – FLUORESCENT PURPLE

2" x 4" OR 3" DIAMETER POLE MARKER

12 GAUGE GALVANIZED WIRE;
STAPLE TO BOTTOM, TOP AND BETWEEN.

1/4"/FT. MIN. SLOPE
(MIN SLOPE 1/8"/FT.
WITH OWNER APPROVAL)

WATER TIGHT PLUG OR CAP

SEWER SERVICE PIPE

STANDARD SEWER SERVICE MARKER

THREE 6" DIA. COILS

2" x 4" OR 3" DIAMETER POLE MARKER

WATER TIGHT PLUG OR CAP

WATER SERVICE PIPE

STANDARD WATER AND RECYCLED WATER SERVICE MARKER

REVISED 2013

CITY OF MERIDIAN SUPPLEMENTAL SPECIFICATIONS TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION

STANDARD DRAWING NO. SW3
1. NO SERVICE CONNECTION SHALL BE MADE WITHIN EIGHTEEN (18") INCHES OF THE PIPE ENDS. MULTIPLE CONNECTIONS MADE ON THE SAME JOINT OF PIPE SHALL BE STAGGERED ON THE CIRCUMFERENCE AND SEPARATED BY A MINIMUM OF EIGHTEEN (18") INCHES.

2. METER VAULTS LOCATED IN TRAFFIC AREAS SHALL USE TRAFFIC RATED HDPE VAULT AND COVER, OR 30" CMP WITH GRADE RINGS AND MANHOLE RING AND COVER PER ISPCW SD402. THE COVER SHALL HAVE A 2" HOLE WITH RECESSED AREA FOR METER TRANSMITTER.

3. LOCATING WIRE SHALL BE TAPED TO SERVICE LINES AT 5' MAX. TAPE TO SERVICE NOT MORE THAN 6" FROM ANGLE STOP (WITH 10 MIL WATERPROOF TAPE.)

4. LOCATING WIRE TO EXTEND TO FACILITY ON "CITY OWNED PROJECTS" FROM METER.

5. FITTINGS TO INCLUDE STAINLESS STEEL INSERTS

6. PROVIDE LENGTH OF WIRE TO EXTEND 24" ABOVE GRADE WHEN UNCOILED.

LEGEND

1. 1" BALL CORPORATION STOP
2. LOCATING WIRE WITH BLUE INSULATION
3. 20" Dia. x 36" POLYETHYLENE VAULT; NOTCH FOR SERVICE LINES.
4. SERVICE SADDLE EPOXY COATED FACING WITH STAINLESS STEEL BAND AND HARDWARE AND TYPE CC THREADS
5. WATER MAIN
6. 1" SERVICE LINE, NO SPlicing ALLOWED.
7. FULL OPENING BALL VALVE, 1" FOR SINGLE SERVICE AND 3/4" FOR DOUBLE SERVICE
8. FIRM UNDISTURBED EARTH
9. EXTEND SERVICE LINE 10’ FROM METER VAULT (SEE STD. DWG. W3) AND PROVIDE TEMPORARY PLUG (THREADED IN HIGH GROUNDWATER AREAS).
10. 3/4" METER SETTER WITH LOCKABLE KEY VALVE (3/4" SERVICE)
    1" METER SETTER WITH LOCKABLE KEY VALVE (1" SERVICE)
11. COVER:
    - COVERS SHALL BE CAST IRON, MARKED "WATER"
    - COVERS SHALL HAVE A 2" HOLE AT CENTER
    - COVER SHALL HAVE RECESSED AREA FOR TRANSMITTER
12. COMPRESSION FITTING, 3/4" X 1" (3/4" SERVICE)
    COMPRESSION FITTING, 1" X 1" (1" SERVICE)

REVISED DEC 2017

CITY OF MERIDIAN
SUPPLEMENTAL SPECIFICATIONS
TO THE IDAHO STANDARDS FOR
PUBLIC WORKS CONSTRUCTION

3/4" SINGLE, 3/4" DOUBLE
OR 1" SINGLE
WATER SERVICE CONNECTION

STANDARD DRAWING NO.
W1
1. SEE STANDARD DRAWING W8 FOR METER SETTER ELEVATION AND DRAWING W1 FOR FITTINGS.

2. LOCATE VAULT ON NORTH OR EAST SIDE OF PROPERTY LINE (P/L).

3. ONLY FOR BUILDING LOTS WITH A 3-FOOT SIDE YARD SET BACK. THE WATER METER SHALL BE CENTERED 12'-0" FROM THE SIDE YARD PROPERTY LINE.

LEGEND

1. METER VAULT, NOTCH FOR SERVICE LINE(S).
2. BALL VALVE
3. METER SETTER
4. SERVICE LINE
5. PLUG
6. SERVICE MARKER, 2 X 4 OR 3" DIAMETER WOODEN POLE PAINTED FLUORESCENT BLUE.

REVISED JUNE 2019

CITY OF MERIDIAN
SUPPLEMENTAL SPECIFICATIONS
TO THE IDAHO STANDARDS FOR
PUBLIC WORKS CONSTRUCTION

3/4" AND 1" SINGLE WATER SERVICE CONNECTION

STANDARD DRAWING NO. W2
NOTES
1. SEE STANDARD DRAWING W6 FOR METER SETTER ELEVATION AND DRAWING W1 FOR FITTINGS.
2. LOCATE VAULT ON NORTH OR EAST SIDE OF PROPERTY LINE (P/L).
3. ONLY FOR BUILDING LOTS WITH A 3-FOOT SIDE YARD SET BACK, THE WATER METER SHALL CENTERED 12”-24” FROM THE SIDE YARD PROPERTY LINE.

LEGEND
① METER VAULT NOTCH FOR SERVICE LINES.
② BRANCH FITTING 1" X 3/4"
③ 3/4" BALL VALVE (X2)
④ METER SETTER
⑤ SERVICE MARKER, 2 x 4 OR 3" DIAMETER WOODEN POLE PAINTED FLUORESCENT BLUE.
⑥ 1" SERVICE LINE
⑦ LOCATING WIRE WITH BLUE INSULATION.
⑧ PLUG

REVISED JUNE 2019

CITY OF MERIDIAN
SUPPLEMENTAL SPECIFICATIONS TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION

3/4" DOUBLE WATER SERVICE CONNECTION

STANDARD DRAWING NO. W3
1. WATER MAIN.
2. EPOXY FACED SADDLE WITH CC THREAD AND STAINLESS STEEL STRAP.
3. BALLCORP TYPE INLET, AWWA TAPER JOINT.
4. 1" DIA. GALVANIZED BRACE PIPE (APPROX. 18" LONG), 2 REQUIRED.
5. FEMALE THREADED UNION FITTING TO MALE THREADS ON CURB STOP (1-1/2" OR 2").
6. BALL VALVE CURB STOP F.I.P. x M.I.P. (1-1/2" OR 2")
7. SERVICE LINE (1-1/2" OR 2"), POLY PIPE.
8. METER SETTER.
9. NA—REVISED JUNE 2018. GRADE RING REMOVED FOR HDPE VAULT.
10. NOTCH FOR SERVICE LINE (FABRICATED WITH HDPE VAULT).
11. HDPE METER VAULT, OR 30"Ø CMP WITH GRADE RINGS AND MANHOLE RING AND COVER PER ISPWC SD402.
12. 4"x35" CONCRETE COLLAR FOR TRAFFIC AREAS.
13. 24" DIA. H—20 LID AND RING & "WATER" COVER. THE COVER SHALL HAVE A 2" RECESSED HOLE FOR METER TRANSMITTER.
14. 1 1/2" METER = 13 1/4" WITH GASKETS, 2" METER = 17 1/4" WITH GASKETS. (CITY TO PROVIDE)
15. CAST IRON VALVE RISER WITH LID—SEE DWG W—11
16. 4" DIA. SDR 35 PVC PIPE, NOTCH FOR SERVICE LINE.
17. 1 1/2" OR 2" x 6" MIN STRAIGHT POLY PIPE (NOT FROM COIL)
18. 1 1/2" OR 2" COMPRESSION FITTING M.I.P.xCOMPRESSION.
19. SOLID PRECAST CONCRETE BLOCK 1' x 1' x 2" THICK
20. PLUG.
21. MIN 12" BETWEEN BACK OF SIDEWALK, BACK OF CURB, OR GUTTER AND EDGE OF VALVE RISER.

NOTES:
1. NO TAP SHALL BE MADE WITHIN 18 INCHES OF THE PIPE ENDS.
2. THE DIAMETER (1-1/2" OR 2") OF EACH APPURtenance SHOWN HEREON SHALL BE THE SAME AS THE METER SIZE.
3. METER SETTERS FOR LANDSCAPE OR PRESSURIZED IRRIGATION SYSTEMS—NO BYPASS SHALL BE ALLOWED.
4. IF TWO OR MORE METER SETTERS ARE USED FOR SAME SERVICE—
NO BYPASS SHALL BE ALLOWED.
5. PROVIDE SST INSERTS FOR ALL FITTINGS.
6. LOCATE WIRE TO EXTEND 24" OUTSIDE OF METER VAULT WHEN UNCOILED.
7. NO ADDITIONAL FITTINGS ALLOWED BETWEEN CORP STOP AND WATER SERVICE ASSEMBLY.

REVISED AUGUST 2018
CITY OF MERIDIAN
SUPPLEMENTAL SPECIFICATIONS
TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION

(1 1/2" - 2") WATER SERVICE CONNECTION
STANDARD DRAWING NO.
W4
BYPASS PIPING NOT ALLOWED FOR PRESSURE IRRIGATION METER INSTALLATIONS.

1. LOCATING WIRE TO BE INSTALLED FROM MAIN TO VAULT ALONG METERED LINE AND BYPASS. WIRE ALONG BYPASS TO ENTER VAULT FROM REAR.

NOTES

SECTION A-A

4' WATER SERVICE CONNECTION

LEGEND

1. MAIN SIZE MJ x 4" FLG TEE, OR STAINLESS STEEL TAPPING SADDLE
2. THRUST BLOCK
3. 4" FLG x MJ GATE VALVE w/ VALVE BOX PER DRAWING W11
4. 4" FLG TEE
5. 4" MJ 90° BEND
6. 4" METER PROVIDED & INSTALLED BY CITY
7. 4" FLANGE COUPLING ADAPTER WITH 6" OF ADJUSTMENT
8. C-900 PIPE
9. 4" FLG GATE VALVE w/ VALVE BOX PER DRAWING W11
10. 4" FLG x MJ ADAPTOR
11. D.I.P. FLG x PE
12. D.I.P. FLG x FLG SPOOL
13. SUPPORT STAND W/ S.S. ANCHOR BOLTS
14. 4" FLG x FLG x MJ TEE
15. FOR INSTALLATION OUTSIDE TRAFFIC AREAS; USE APPROVED HATCH DOOR AND FRAME
   FOR INSTALLATION IN TRAFFIC AREAS; USE COVERS PER ISPWC SD402
16. 5’-6"L x 3’-6"W, INSIDE, PRECAST CONCRETE VAULT W/ HS-20 LOADING RATED LID
17. 12" DIAMETER x 2" DEEP SUMP, DO NOT PLACE UNDER PIPING

CITY OF MERIDIAN SUPPLEMENTAL SPECIFICATIONS TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION

STANDARD DRAWING NO. W5

REVISED DEC. 2017
ELEVATION SET OF METER VAULT LID ATTACHED SIDEWALK

- DIMENSIONS ARE FROM FINISH GRADE OR TOP OF LANDSCAPING TO TOP OF METER LID.

ELEVATION SET OF METER VAULT LID DETACHED SIDEWALK

NOTES
1. IN THE ABSENCE OF A SIDEWALK, THE FOLLOWING DIMENSIONAL STANDARDS SHALL BE APPLIED:
   - THE METER LID SHALL BE A MINIMUM OF 3/4" ABOVE FINISHED GRADE OR TOP OF LANDSCAPING (MAX. = 2").
   - IN THE ABSENCE OF A SIDEWALK, THE C/L OF THE METER SHALL BE 2'-0" FROM BACK OF CURB.
2. NO LARGE LANDSCAPING OR FACILITIES SHALL BE PERMITTED WITHIN A 5'-0" RADIUS OF WATER METER.
NOTES

1. THE PIPE MATERIAL USED FOR SLEEving SHALL BE AWWA C900 WATER CLASS PIPE.
2. SEAL ENDS OF PIPE SLEEVE WITH EXPANDING POLYURETHANE FOAM.
NOTES
1. JOINT RESTRAINTS TO BE USED AT ALL TEES AND FITTINGS FROM MAIN TO HYDRANT.
2. ALL AUXILIARY VALVES SHALL BE LOCATED AT THE TEE ON THE WATER MAIN AS SHOWN ON THIS DETAIL.
3. PLACE LOCATING WIRE TO LOCATOR STATION. TAPE TO TOP OF PIPE EVERY 10' MAX. SPACING. SEE STANDARD DRAWING G-5 FOR PLAN VIEW DETAILS.
4. ALL 4 1/2" OUTLETS TO BE POINTED TOWARDS PRIMARY STREET OR ACCESS ROAD.
5. ALL FIRE HYDRANTS SHALL HAVE A MINIMUM OF 5' RADIUS FROM MATURE LANDSCAPING OR OTHER FIXED VERTICAL OBJECTS, SEE DRAWING W9.
6. HYDRANTS WILL BE INSTALLED TO GRADE TO MANUFACTURES DESIGNATED BURY LINE ON HYDRANT.
7. HYDRANTS SHALL NOT BE PLACED WITHIN 10 FEET OF DRAINAGE SWALES.
8. HYDRANTS TO BE INSTALLED LEVEL & PLUMB.
9. INSTALL GROUNDING ANODE AT MINIMUM 24 INCH DEPTH.
10. ALL FIRE HYDRANTS SHALL HAVE STORZ CONNECTION; EITHER BUILT IN OR APPROVED ADAPTOR MAY BE USED.
GENERAL NOTES
1. SEE CITY OF MERIDIAN STANDARD DRAWING W6 FOR ELEVATION SET OF METER VAULTS.
2. HYDRANTS SHALL NOT BE INSTALLED WITHIN 10 FEET OF DRAINAGE SWALES.
3. FIRE HYDRANTS AND WATER METER VAULTS SHALL HAVE A MINIMUM OF 5' RADIUS CLEARING FROM MATURE LANDSCAPING OR OTHER FIXED VERTICAL OBJECTS INCLUDING FENCES.
STEEL PIPE BOLLARD PAINTED TWO COATS OF EXTERIOR ENAMEL "SAFETY YELLOW"

**PIPE SIZE TABLE**

<table>
<thead>
<tr>
<th>Size</th>
<th>Minimum</th>
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</thead>
<tbody>
<tr>
<td>Residential</td>
<td>4&quot;</td>
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<td>Residential Sleeve</td>
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<tr>
<td>Industrial Sleeve</td>
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</tbody>
</table>

**PERMANENT BOLLARD INSTALLATION**

**SECTION VIEW**

- Concrete Dome, Steel Pipe filled with Concrete.
- Finished Grade/ Pavement
- 16" Dia. (Minimum) Cast in Place Concrete Foundation
- 6" Pipe Size (See Table)
- 3'-0" (Minimum)
- Secure with Welded Ring and Lock

**REMOVABLE BOLLARD INSTALLATION**

**SECTION VIEW**

- Ground Sleeve, See Table for Sizing.
- 3/4" Bedding Chips
- 6" Pipe Size (See Table)
- 3'-0" (Minimum)
- Finished Grade/ Pavement

**TYPICAL BOLLARD INSTALLATION**

**IN COMMERCIAL PARKING AREA**

**HYDRANT/ BOLLARD SPACING**

**PLAN VIEW**

- 4' (Maximum)
- Curb & Gutter
- 3' (Minimum)
- Bollards Typical
- PH

**NOTES**

1. BOLLARDS SHALL MEET ALL REQUIREMENTS OF SECTION 312 (VEHICLE IMPACT PROTECTION) OF THE INTERNATIONAL FIRE CODE (CURRENTLY ADOPTED EDITION).

2. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATING FOR CONCRETE BOLLARD FOUNDATION.

3. BOLLARDS SHALL BE PAINTED "SAFETY YELLOW."
NOTES

1. FOR VALVE BOXES IN STREETS WITH A SPEED LIMIT GREATER THAN OR EQUAL TO 35 MPH, USE SW SERVICES ABS/POLYCARBONATE NON-POP LID.

REVISED DEC 2017

CITY OF MERIDIAN
SUPPLEMENTAL SPECIFICATIONS
TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION

VALVE BOX & LID DETAIL

STANDARD DRAWING NO. W11
1. WHEN CONSTRUCTING A BLOW-OFF FOR TEMPORARY USE, A 18”–36” FOOT LENGTH OF WATER PIPE SHALL BE INSTALLED INTO THE BELL END OF THE LAST LENGTH OF MAIN. PUP JOINT SHALL BE RESTRAINED.

2. JOINT RESTRAINTS TO BE PROVIDED ON LAST THREE STICKS OF PIPE, AND CAP.

**NOTES**

**LEGEND**

1. MAIN SIZE MJ CAP W/ 2” I.P. PIPE THREAD OUTLET
2. 2” x 6” GALVANIZED THREADED NIPPLE
3. RESILIENT WEDGE GATE VALVE
4. 2” GALVANIZED – 90° THREADED ELBOW
5. 2” GALVANIZED PIPE
6. 30”Ø CMP OR 30”Ø TRAFFIC RATED HDPE METER VAULT
7. 2” THREADED FIP x ALUM. KAM–LOC QUICK COUPLING MALE ADAPTOR (NO CAP)
8. JOINT RESTRAINT
9. GROUNDING WIRE

CITY OF MERIDIAN SUPPLEMENTAL SPECIFICATIONS TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION

2” BLOWOFF ASSEMBLY

STANDARD DRAWING NO. W12

REVISED DEC 2017
NOTES
1. JOINT RESTRAINTS TO BE PROVIDED ON LAST THREE STICKS OF PIPE, AND VALVE.
NOTE:
1. PER W1 AS APPLICABLE
2. WHEN METERING STATION IS USED FOR RECLAIMED WATER, ALL ABOVE GROUND APPURTANANCES SHALL BE COLORED PURPLE, PANTONE 512, 522 OR EQUAL.

ISOMETRIC VIEW OF TAP CONNECTION

LEGEND
1. BALL CORPORATION STOPS (1"
2. LOCATING WIRE (BLUE).
3. 20" DIA. X 36" PVC VAULT; NOTCH FOR SERVICE LINES.
4. SERVICE SADDLE EPOXY COATED FACING WITH STAINLESS STEEL BAND AND HARDWARE
5. WATER MAIN
6. 1" LINE
7. FULL OPENING BALL VALVE
8. FUTURE METER INSTALLED BY MERIDIAN WATER DEPT.
9. FIRM UNDISTURBED EARTH
10. 3/4" METER SETTER WITH LOCKABLE KEY VALVE
11. COVER
12. COMPRESSION FITTING 3/4" X 1"

PROVIDE LENGTH OF WIRE TO ALLOW LOOP AT LEAST 24" ABOVE GROUND

SEE TYPICAL PLAN AT ISOLATED CROSSING BELOW

REVISED DEC 2017
CITY OF MERIDIAN SUPPLEMENTAL SPECIFICATIONS TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION

LEAK DETECTION METERING STATION "CROSSINGS"

STANDARD DRAWING NO. W14
1. CLEANOUT LIDS MUST BE LABELED WITH THE WORD "SEWER".
2. FRIBILLATED POLYPROPYLENE FIBER (ADDED PER MANUFACTURER'S RECOMMENDATIONS) MAY BE USED IN LIEU OF #4 REBAR IN CONCRETE COLLARS.
3. THE MAXIMUM DISTANCE FROM A MANHOLE TO A PROPOSED CLEANOUT IS 150 FEET.
4. NO SERVICES WILL BE CONNECTED TO THE SEWER LINE TERMINATING IN A CLEANOUT.
END O.D. OF 2-3/8" WITH 3' RISE

PROVIDE RAIN TIGHT CAP - MIN. O.D. AT TOP 4"

SEE ATTACHMENT DETAILS

REINFORCED HAND HOLE

MIN. O.D. AT BASE 8"

SEE BASE DETAILS

ATTACHMENT DETAILS

GENERAL NOTES:

1. MATERIALS AND CONSTRUCTION SHALL CONFORM TO AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 5TH EDITION

2. POLE SHAFT AND MAST ARM SHALL BE ROUND OR 12-SIDED STEEL

3. POLE SHAFT SHALL CONFORM TO ASTM A572 GRADE 50

<table>
<thead>
<tr>
<th>Nominal MH</th>
<th>L</th>
<th>R</th>
<th>H</th>
<th>Actual MH</th>
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<td>33'</td>
<td>35.5</td>
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CITY OF MERIDIAN
SUPPLEMENTAL SPECIFICATIONS TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION

TYPE 1 MAST ARM LUMINAIRE

STANDARD DRAWING NO. T1
<table>
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<th>POLE TYPE</th>
<th>X</th>
<th>Y</th>
<th>D</th>
<th>E</th>
<th>W</th>
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<th>SIZE</th>
<th>LIN. FT</th>
<th>RODS NO.</th>
<th>SIZE</th>
<th>LIN. FT</th>
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</thead>
<tbody>
<tr>
<td>TYPE 1 - 30'</td>
<td>24&quot;</td>
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<td>#4</td>
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<td>6</td>
<td>#4</td>
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<td>10½&quot;</td>
<td>11&quot;</td>
<td>11½&quot;</td>
<td>6</td>
<td>#4</td>
<td>41'</td>
<td>6</td>
<td>#6</td>
<td>39'</td>
</tr>
<tr>
<td>TYPE 2</td>
<td>24&quot;</td>
<td>60&quot;</td>
<td>8&quot;</td>
<td>9&quot;</td>
<td>8&quot;</td>
<td>4</td>
<td>#4</td>
<td>21'</td>
<td>6</td>
<td>#4</td>
<td>27'</td>
</tr>
<tr>
<td>HISTORICAL</td>
<td>24&quot;</td>
<td>60&quot;</td>
<td>12&quot;</td>
<td>13&quot;</td>
<td>N/A</td>
<td>4</td>
<td>#4</td>
<td>21'</td>
<td>6</td>
<td>#4</td>
<td>27'</td>
</tr>
<tr>
<td>DAVIT</td>
<td>24&quot;</td>
<td>72&quot;</td>
<td>10½&quot;</td>
<td>11&quot;</td>
<td>11½&quot;</td>
<td>5</td>
<td>#4</td>
<td>31'4&quot;</td>
<td>8</td>
<td>#5</td>
<td>44'</td>
</tr>
</tbody>
</table>

**GENERAL NOTES:**

1. CONCRETE FOR FOUNDATIONS SHALL HAVE A MINIMUM 28-DAY COMpressive STRENGTH OF 3,000 PSI.
2. ALL REBAR REINFORCEMENT SHALL HAVE 3" CLEARANCE FROM OUTSIDE OF CONCRETE FOUNDATION.
3. HOOP SHALL HAVE A 6" LAP LENGTH MINIMUM.
4. BREAKAWAY BOLTS ARE REQUIRED WHEN ON STATE HIGHWAYS, SEE ITD STANDARD DRAWING I-7-C.
5. TYPE 1, TYPE 2 AND DAVIT POLE TO BE PROVIDED WITH METAL, 2-PIECE BASE COVER TO MATCH POLE FINISH.
6. ALL CONDUIT ELBOWS USED IN CONCRETE BASES SHALL BE RPC.
7. STEEL CONDUIT SHALL BE USED TO EXTEND ELBOWS BEYOND FOUNDATION.
8. SPARE STUBOUTS SHALL BE TERMINATED WITH A STEEL COUPLING AND PLASTIC PUSH PLUG AT BOTH ENDS.
**Legend**

1. **Each phase conductor shall be fused at every pole and service junction box by means of in-line connectors. Use only fast acting fuses rated 100K RMS amps, 600 Vac.**
2. **When a splice is required use SEC model 0791-0 splice kit, Polaris SSB 2/0, or approved equal. An 18" minimum slack loop is required in all junction boxes.**
3. **If distance from power company service point to service cabinet is greater than 10 feet, a fused J-box shall be installed within 10 feet of power company service point. Distance from power company service point to service cabinet shall not exceed 150 feet.**

**MINIMUM ALLOWABLE WIRE SIZES (AWG)**

<table>
<thead>
<tr>
<th>Type 1 Cobrahead</th>
<th>Type 2 Shoedbox</th>
<th>Historical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>AWG (Min)</td>
<td>Voltage</td>
</tr>
<tr>
<td>120</td>
<td>4</td>
<td>120</td>
</tr>
<tr>
<td>208</td>
<td>8</td>
<td>208</td>
</tr>
<tr>
<td>240</td>
<td>10</td>
<td>240</td>
</tr>
<tr>
<td>277</td>
<td>Not Allowed</td>
<td>277</td>
</tr>
<tr>
<td>480</td>
<td>Not Allowed</td>
<td>480</td>
</tr>
</tbody>
</table>

*Max, run length = 250'*, *Max, run length = 1500', *Max, run length = 1000'*

*Max, run lengths from service point to farthest street light being served by the system shall not exceed specified distance.*
ASSEMBLED SECTION

NOTE:
SLOT AND GUIDE PIN SHALL
BE POSITIONED ON THE TOP
SIDE OF THE POLE AND ARM.

USLIP JOINT MAST
UARM ATTACHMENT

GENERAL NOTES:
1. MATERIALS AND
CONSTRUCTION SHALL
CONFORM TO AASHTO
STANDARD SPECIFICATIONS
FOR STRUCTURAL
SUPPORTS FOR HIGHWAY
SIGNS, LUMINAIRES, AND
TRAFFIC SIGNALS, 5TH
EDITION
2. POLE SHAFT SHALL
CONFORM TO ASTM A572
GRADE 50, 55, 60, OR 65
3. PIPE ON EACH SIDE OF A
CIRCUMFERENTIAL WELD
SHALL HAVE THE SAME
OUTSIDE DIAMETER AT THE
WELD

SPlice DETAIL

THICKNESS OF FILLER RING (IF NEEDED) TO
MATCH DIFFERENCE IN TAPERED TUBE
THICKNESS x 1 1/2" WIDE

.115" THK. (10 GAUGE) x 3"
WIDE BACK-UP RING

NOTES:
1. ALL BUTT WELDS TO BE GROUND
FLUSH
2. LONGITUDINAL: BUTT WELD BY
THE SUBMERGED ARC PROCESS
3. CIRCUMFERENTIAL BUTT WELD
WITH PERMANENT BACK-UP RING

REVISED JUN 2016

CITY OF MERIDIAN
SUPPLEMENTAL
SPECIFICATIONS
TO THE IDAHO STANDARDS FOR
PUBLIC WORKS CONSTRUCTION

DAVIT POLE

STANDARD DRAWING NO.
T4
GENERAL NOTES:
1. MASTER-KEYED PADLOCKS SHALL BE SUPPLIED WITH CABINETS, CONTACT CITY FOR PADLOCK TYPE.
2. AN ADDITIONAL GROUNDING ELECTRODE SHALL BE DRIVEN 6' FROM CABINET AND WIRED TO GROUND BUS. ADDITIONAL ELECTRODE SHALL BE HOUSED IN A JUNCTION BOX.
3. NO SHRUBS OR TREES SHALL BE PLANTED WITHIN 10' OF CABINET.

BASE FOR SERVICE CABINET
GENERAL NOTES:
1. AUTO TEST SWITCH SHALL BE 15 A, 120 V
2. PHOTOELECTRIC CONTROL UNIT SHALL INCLUDE PHOTOCONTROL, A SEPARATOR CONTACTOR, AND A TEST SWITCH
3. NEUTRAL LUG AND NEUTRAL BUS SHALL BE INSULATED FROM THE SERVICE EQUIPMENT ENCLOSURE
4. THE LANDING LUG SHALL BE SUITABLE FOR MULTIPLE CONDUCTORS
5. 2-POLE BREAKERS SHALL BE GANG OPERATED
6. PRESSURE TYPE TERMINALS SHALL BE SUPPLIED AFTER CONTACTORS
GENERAL NOTES:

1. ALL MATERIALS SHALL BE CAST IRON PER ASTM A-48, CLASS 30 B.

2. SURFACES OF COVER AND BOX WHICH COME INTO CONTACT WITH EACH OTHER MUST BE SMOOTH AND FREE OF ALL CASTING RIDGES TO ENSURE PROPER FIT.

3. VALVE BOX SHALL HAVE A ROUND BOTTOM TO ACCOMMODATE RISER PIPE. TOP OF VALVE BOX SHALL BE SQUARE. VALVE BOX SHALL BE INSTALLED WITH A REINFORCED CONCRETE COLLAR PER ISPWC.

4. VALVE RISER SHALL 6 INCH PVC COLORED PANTONE 512, 522 OR EQUAL AND NOTCHED AT BOTTOM TO ALLOW FINDER WIRE TO PASS THROUGH.

5. LOCKING DEBRIS CAP COLORED PANTONE 512, 522 OR EQUAL SHALL BE INSTALLED IN THE ROUND RISER SECTION.

6. COIL FINDER WIRE IN VALVE BOX WITH ENOUGH SLACK TO EXTEND WIRE AT LEAST 6" ABOVE FINISHED GRADE. REFER TO THE CITY OF MERIDIAN SUPPLEMENTAL SPECIFICATIONS FOR FINDER WIRE REQUIREMENTS.