BILL OF MATERIALS

<table>
<thead>
<tr>
<th>NO.</th>
<th>NOMENCLATURE</th>
<th>REQ'D.</th>
<th>NO.</th>
<th>NOMENCLATURE</th>
<th>REQ'D.</th>
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<tbody>
<tr>
<td>1</td>
<td>WTR MAIN</td>
<td>2</td>
<td>22</td>
<td>SPCC 3/8&quot; G.I. FLR, (FIELD CUT TO LENGTH)</td>
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<tr>
<td>2</td>
<td>VALVE 4&quot; DUCILE IRON, RESIDENT WEIG, FLUM</td>
<td>1</td>
<td>23</td>
<td>VALVE, 2&quot; BALL, BRASS, I.P.T. x I.P.T. , W/PADLOCK WINGS (FORD B11-777-W1)</td>
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<tr>
<td>3</td>
<td>PIPE 4&quot; DUCTILE IRON FIELD CUT TO LENGTH</td>
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<td>24</td>
<td>PIPE, 3&quot; CL 50 DUCTILE IRON (FIELD CUT TO LENGTH)</td>
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<tr>
<td>4</td>
<td>ELBOW BRASS 2-1/4</td>
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<td>5</td>
<td>ADAPTOR, BRASS PK JOINT, 2&quot; MLPT x PVC (FORD CB7-77)</td>
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<td>6</td>
<td>WIRE, #10 SOD COPPER, BLUE COATED, EXTEND TO TOP OF LADDER</td>
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<td>7</td>
<td>PIPE, 4&quot; CL 50 DUCTILE IRON FIELD CUT TO LENGTH</td>
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<td>8</td>
<td>SLEEVE, 3&quot; CL 1/2&quot; DUCTILE STEEL, DOUBLE (STAINLESS STEEL SLEEVE, EPOXY COATED (FORD FC202-425-IP7))</td>
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<td>9</td>
<td>VALVE, 3&quot; DUCILE IRON, RESIDENT WEB, FLUM</td>
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<tr>
<td>10</td>
<td>TEE, REDUCER, 3&quot; TURBO SERIES 450</td>
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<td>11</td>
<td>PIPE, 2&quot; BRASS, 90</td>
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<td>12</td>
<td>SLEEVE, 3&quot; CL 1/2&quot; DUCTILE STEEL, DOUBLE (STAINLESS STEEL SLEEVE, EPOXY COATED (FORD FC202-425-IP7))</td>
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<td>13</td>
<td>VALVE BOX, CAST IRON OLYMPIC FOUNDRY YB-607-SKAGIT (SEE P.U.D. DETAIL)</td>
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<td>14</td>
<td>VALVE, 3&quot; DIAMON, RESIDENT WEIG, FLUM</td>
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<td>15</td>
<td>REDUCER, 4&quot; MA3W, CONCENTRIC</td>
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<td>16</td>
<td>PIPE, 3&quot; CL 50 DUCTILE IRON FIELD CUT TO LENGTH</td>
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<td>17</td>
<td>PIPE, 2&quot; PVC SCHEDULE 80 FIELD CUT TO LENGTH</td>
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<td>18</td>
<td>PIPE SUPPORT (MATERIAL RESOURCES #992 OR #280)</td>
<td>2</td>
<td>19</td>
<td>RETAINER CLAND, 4&quot; EBA EME-A-LUG</td>
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<tr>
<td>20</td>
<td>RETAINER CLAND, 3&quot; EBA EME-A-LUG</td>
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<td>21</td>
<td>VALVE, 4&quot; DIAMON, RESIDENT WEIG, FLUM</td>
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</tbody>
</table>

**NOTES:**

1. SET VALVE BOX AND VAULT TO FINISH GRADE, SEE P.U.D. VALVE BOX DETAIL.
2. SEAL VAULT LIDS AND RISERS OF VAULT WITH 1-1/2"X1" JOINT MASTIC. INSTALL 3" PVC PIPE TO DRAIN TO DAYLIGHT IF POSSIBLE.
3. INSTALL SERVICE PIPE PERPENDICULAR TO MAIN OR AS SHOWN ON WATER PLANS APPROVED BY DISTRICT ENGINEER. USE ELBOWS AS NECESSARY, TO MEET ELEVATION OF VAULT.
4. TEE, VALVE AND PIPE MUST BE WRAPPED WITH 8 ML POLYETHYLENE PIPE ENCAPSULATION. IT IS TO BE INSTALLED AS PER D.P.R.A. AND IN ACCORDANCE WITH A.W.W.A. C105.
5. BLOCK TEE/TAPPING SLEEVE WITH Poured CONCRETE ON ALL WATER MAINS OTHER THAN DUCTILE IRON. IN ADDITION, THE SERVICE PIPE FROM VALVE AT MAIN TO METER AND THE PRIVATE SERVICE LINE FROM METER ON TO PRIVATE PROPERTY SHALL BE REINFORCED USING MEG-A-LUGS OR "FIELD LOCK" GASKETS (OR APPROVED EQUIVALENT). THE LENGTH OF REINFORCED PIPE ON PRIVATE PROPERTY SHALL BE DETERMINED BY THE DEVELOPER/ENGINEER.
6. SET VAULT ON MIN. 6" OF 3/4" MINUS CRUSHED GRAVEL, MECHANICALLY TAMPED TO 95% COMPACTION.
7. FLUSH OUT PIPELINE BEFORE INSTALLING METER. DO NOT ALLOW ANY MUD OR FOREIGN MATERIAL TO ENTER PIPE OR FITTINGS.
8. IF CONNECTION IS NOT COMPLETED TO CUSTOMER'S PIPE, INSTALL M.J. TAP 2", CAP OVER OPEN END OF PIPE OR PLUG, TAP 2", IN VALVE AND FLUSH OUT PIPE AND METER. MAKE WATER TIGHT.
9. METER SENSING PAD IS TO BE LOCATED WITHIN 6" OF HINGE ON VAULT LID AT STREET (MEET) END OF VAULT.
10. 3" AND 4" VALVES SHALL BE A.W.W.A. C508 STANDARD, "O" RING PACKING, NON-RISING STEM, 2" OPERATING NUT, RESIDENT WEDGE, GATE VALVES. (WHEEL OPERATORS INSIDE VAULT.)
11. WELD-ON GROU/FOAM AROUND PIPE. MAKE WATER TIGHT.
12. 2" BALL VALVES SHALL BE LOCKED UPON INSTALLATION W/P.U.D.—SUPPLIED PADLOCKS.
13. BACKFILL AROUND VAULT SHALL BE FIRMLY TAMPED TO ELIMINATE SETTLEMENT.
14. CONCRETE BLOCK OR EQUIVALENT UNDER VALVE IS TO KEEP VAULT FACE VERTICAL DURING INSTALLATION.
15. A SHUTOFF VALVE SHALL BE INSTALLED ON CUSTOMER'S PLUMBING AFTER DISTRICT'S METER, PER U.P.C. SUCH VALVE SHALL BE ACCESSIBLE AT ALL TIMES.

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PUD NO. 1 OF SKagit COUNTY ENGINEERING MANAGER

APPROVED ON: MAY 16, 2014

STANDARD INSTALLATION OF
3" TURBINE METERED SERVICE
PLAN VIEW

PUD NO. 1 OF SKagit COUNTY ENGINEERING MANAGER

APPROVED ON: MAY 16, 2014

STANDARD

WS3-2a

PUBLIC UTILITY DISTRICT

Skagit

DATE: 3-25-05
REVISED: 5/16/14
DRAWN BY: CAS
APPROVED BY: GJS