ADDENDUM #1
8” Gas Main Replacement on 1st Street From Mesaba Avenue to 15th Avenue West
City of Duluth
Bid No. 13-0121
Bid Opening: 2:00 P.M. February 27, 2013

NOTICE TO ALL BIDDERS:

The addendum is issued to modify, explain or correct the original drawings, specification and/or previous addendums and is hereby made a part of the Contract Documents. Please attach this Addendum to the specifications in your possession and note receipt of this Addendum on page 2 of the Request for Bid. The bid date remains unchanged.

The above entitled contract documents are hereby revised as follows:

CLARIFICATION: The following list is being issued because some of the specification books were assembled and distributed with pages out of order. The specification book was printed double sided with the standard convention of front pages being odd numbered and the back side of pages being even numbered. Please use this list to confirm your copy of the specification contains all the pages below, which are listed in the proper order. If your copy of the specification appears to be missing pages please contact the Engineering Department and a replacement copy of the specification will be supplied.

<table>
<thead>
<tr>
<th>Cover Page</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>2</td>
</tr>
<tr>
<td>Invitation to Bid</td>
<td>3</td>
</tr>
<tr>
<td>Blank</td>
<td>4</td>
</tr>
<tr>
<td>Purchasing Division General Specifications</td>
<td>5</td>
</tr>
<tr>
<td>Sealed Bid Envelope Sticker</td>
<td>6</td>
</tr>
<tr>
<td>Affidavit and Information Required of Bidders</td>
<td>7</td>
</tr>
<tr>
<td>Blank</td>
<td>8</td>
</tr>
<tr>
<td>EEO Affirmative Action Policy...</td>
<td>9 – 10</td>
</tr>
<tr>
<td>Specifications Signature Page</td>
<td>11</td>
</tr>
<tr>
<td>Special Provisions (including T.O.C.)</td>
<td>12 – 22</td>
</tr>
<tr>
<td>Instructions to Bidders</td>
<td>23 – 26</td>
</tr>
<tr>
<td>Certified Payroll Checklist</td>
<td>27 – 29</td>
</tr>
<tr>
<td>Data For labor Cost Bidding</td>
<td>30</td>
</tr>
<tr>
<td>US DOL Federal Heavy Wage Rates</td>
<td>31 – 36</td>
</tr>
<tr>
<td>US DOL Federal Highway Wage Rates</td>
<td>37 – 41</td>
</tr>
<tr>
<td>Blank</td>
<td>42</td>
</tr>
<tr>
<td>Indemnification &amp; Insurance Requirements</td>
<td>43 – 45</td>
</tr>
<tr>
<td>Blank</td>
<td>46</td>
</tr>
<tr>
<td>MNOPS Drug and Alcohol Self-Assessment...</td>
<td>47 – 49</td>
</tr>
<tr>
<td>Blank</td>
<td>50</td>
</tr>
<tr>
<td>Operator Qualifications List</td>
<td>51 – 52</td>
</tr>
<tr>
<td>Request for Bid (page 1)</td>
<td>53</td>
</tr>
<tr>
<td>Blank</td>
<td>54</td>
</tr>
<tr>
<td>Request for Bid (page 2)</td>
<td>55</td>
</tr>
<tr>
<td>Blank</td>
<td>56</td>
</tr>
<tr>
<td>Request for Bid (page 3)</td>
<td>57</td>
</tr>
<tr>
<td>Blank</td>
<td>58</td>
</tr>
<tr>
<td>Request for Bid (page 4)</td>
<td>59</td>
</tr>
<tr>
<td>Blank</td>
<td>60</td>
</tr>
<tr>
<td>Exhibit A</td>
<td>61</td>
</tr>
<tr>
<td>Blank</td>
<td>62</td>
</tr>
<tr>
<td>Appendix A Title Page</td>
<td>63</td>
</tr>
<tr>
<td>Blank</td>
<td>64</td>
</tr>
<tr>
<td>Project Labor Agreement</td>
<td>65 – 76</td>
</tr>
<tr>
<td>End of Specification</td>
<td>-</td>
</tr>
</tbody>
</table>
SPECIFICATION

REPLACE the original Request for Bid Form and Exhibit A with the revised Request for Bid Form and Exhibit A included with this Addendum.

CLARIFICATION: Testing requirements for utility backfill and embedment compaction, and road base and sub base layer compaction are as stated in the City of Duluth, Minnesota Construction Standards 2013.

SPECIAL PROVISIONS

ADD the following Special Provision SP-13.3:

"SP-13.3 The City of Duluth will perform before and after televised inspections of the sewer mains in locations where rock removal by blasting will occur."

DELETE AND REPLACE SP-19, SP-19.1, and SP-19.2 with the following:

"SP-19 INSERTION CASING PROCEDURES

Prior to inserting the 12" P.E. pipe, the Contractor is required to pull a 10' long test segment of 12" P.E. to verify the existing 16" casing will pass the new P.E. pipe without notable exterior damage. Acceptance of the test will be at the discretion of the Engineer. If the pipe contains exterior damage and is considered a failure, the Contractor shall perform a second pull test. Payment for this test shall be incidental to the 12" PE Gas Main Installed by insertion bid item.

SP-19.1 The Contractor shall perform the pressure test as specified in the Standard Construction Specifications on the 12" PE pipe after it is inserted in the casing. The post-insertion pressure test is required to confirm the integrity of the pipe after the insertion process.

SP-19.2 The Contractor shall install at least five feet of 12" PE beyond each end of the casing before the 8"x12" reducer fitting. Payment for any 12" PE main outside the casing will be made with the Furnish & Install 12" PE Has main Installed by insertion bid item."

ADD the following Special Provision SP-19.4:

"SP-19.4 The Contractor shall install two stainless steel direction drill tracer wires within the insertion casing for redundancy. City crews may elect to bond the tracer wire to the casing. The redundant wire shall be incidental to the pipe."

PLANS

SHEET 6 OF 20

REPLACE the original Connection Procedure Details Sheet 6 with the revised Connection Procedure Details Sheet 6 included with this Addendum.

SHEET 9 OF 20
ADD approximately 60 LF of Heavy Duty Silt Fence as erosion and sediment control for inlet protection of the 1st Street crossing of Buckingham Creek. NOTE that the location of Buckingham Creek inlet is approximately 25 feet east of 12th Avenue West and it is not identified on the plan or profile. The creek's tunnel structure should be sufficiently deep to not interfere with installation of the gas main. The Buckingham Creek location is identified on Sheet 5 of the plans.

SHEET 11 OF 20

REPLACE Note 4 with the following:

"4. CLEAR AND GRUB TREES, BRUSH, AND VEGETATION AS NEEDED."

SHEET 15 OF 20

CHANGE Connection Procedure No. 1 step "W" to read as follows:

"CONTRACTOR TO COORDINATE WITH PUBLIC WORKS AND UTILITIES FOR REMOVAL OF SQUEEZE EQUIPMENT AFTER CONNECTIONS ARE MADE"

SHEET 16 OF 20

REPLACE the original Connection Procedure Details Sheet 16 with the revised Connection Procedure Details Sheet 16 included with this Addendum.

SHEET 19 OF 20

REPLACE the original Connection Procedure Details Sheet 19 with the revised Connection Procedure Details Sheet 19 included with this Addendum.

END OF ADDENDUM
REQUEST FOR BID
DATE 2/1/2013
BID # 13-0121

8" GAS MAIN REPLACEMENT ON FIRST STREET FROM MESABA AVENUE TO 15TH AVENUE WEST

BID OPENING AT 2:00 PM ON WEDNESDAY, FEBRUARY 27, 2013

Note: All bids must be written, signed and transmitted in a sealed envelope, plainly marked with the bid number, subject matter and opening date. The City of Duluth reserves the right to split award where there is a substantial savings to the City, waive informalities and to reject any and all bids. Bidder should state in proposal if bid price is based on acceptance of total order. Sales tax is not to be included in the unit price. Bidder to state freight charges if the proposal F.O.B. is shipping point, freight not allowed. Low bid will not be the only consideration for award of bid. All pages shall be signed or initialed by authorized bidder’s representative as indicated at the bottom of the page(s) of the request for bid form.

RETURN BID IN DUPLICATE WITH DUPLICATE DESCRIPTIVE LITERATURE FOR BID RESULTS, ENCLOSURE A SELF-ADDRESSED, STAMPED ENVELOPE WITH BID

BID DEPOSIT REQUIREMENTS: 5% OF BID AMOUNT
Deposit shall mean cash, cashier's check or corporate surety bond payable to or in favor of the City of Duluth.

A PERFORMANCE BOND AND A PAYMENT BOND shall be required of the successful bidder, BOTH in the full amount of the bid.

INSURANCE CERTIFICATE required per attached requirements.

Designated F.O.B. Point:
Engineering Division
Jobsite(s)

Vendor Email Address: ________________________________________________________________

NAME: ____________________________________________
ADDR1: __________________________________________
ADDR2: __________________________________________
ADDR3: __________________________________________

Emp: ____________________________________________ (Print)
(Tele. #)

By: ____________________________________________ (Signature)
(Tele. #)

Tax: ____________________
Federal Excise Tax Exemption Account No. 41-74-0056 K

FREIGHT CHARGE $ ____________________

TOTAL BID PRICE $ ____________________
TO INCLUDE ANY ADDITIONAL PAGES.

PAYMENT TERMS $ ____________________
F.O.B. POINT $ ____________________
DELIVERY DATE $ ____________________

The City of Duluth is an Equal Opportunity Employer.
******SCHEDULE OF PRICES******

8" GAS MAIN REPLACEMENT ON FIRST STREET FROM MESEBA AVENUE TO 15TH AVENUE WEST

City Project #0839GS

Make all extensions and total the bid.

Make all extensions and total the bid.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Spec. #</th>
<th>Qty</th>
<th>U/OM</th>
<th>Item Description</th>
<th>Unit Price</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td></td>
<td>1</td>
<td>Each</td>
<td>Exhibit A (Must Be Returned With The Bid)</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

TOTAL $ __________

ADDENDUM NO. __________, DATED __________

ADDENDUM NO. __________, DATED __________

TOTAL BID IN WORDS: __________________________

CONTRACTOR NAME: __________________________

THE CONTRACTOR AGREES TO ALL OF THE PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS. ENCLOSED HEREWITH FIND A CERTIFIED CHECK OR BID BOND IN THE AMOUNT OF AT LEAST 5% OF THE AMOUNT OF PROPOSAL MADE PAYABLE TO THE CITY OF DULUTH AS A PROPOSAL GUARANTEE WHICH IT (see additional page(s))

(Initial)
IS AGREED BY THE UNDERSIGNED WILL BE FORFEITED IN THE EVENT THE FORM OF CONTRACT AND BOND IS NOT EXECUTED, IF AWARDED TO THE UNDERSIGNED.

The bidder hereby certifies that he/she has obtained the City of Duluth Public Works/Utilities Department - Engineering Division Standard Construction Specifications 2013 booklet and has incorporated the terms hereof in its bid.

SIGNED: __________________________________________ FOR

A PARTNERSHIP (OR)

A CORPORATION INCORPORATED UNDER THE LAWS OF THE STATE OF:

_________________________________________________
PRESIDENT

_________________________________________________
VICE-PRES.

_________________________________________________
SECRETARY

_________________________________________________
TREASURER

_________________________________________________
ADDRESS(ES)

BEING DULY SWORN, DEPOSES AND SAYS THAT THERE ARE NO OTHER PERSONS COMPRISING ABOVE COMPANY OR FIRM THAN THE ABOVE NAMES, AND THAT THERE ARE NO PERSONS OR CORPORATIONS INTERESTED IN THE FORGOING PROPOSALS, EITHER AS PRINCIPAL OR SUBCONTRACTOR, OTHER THAN THE ABOVE NAMES; ALSO THAT THE PROPOSALS ARE MADE WITHOUT ANY CONNECTION WITH ANY PERSON OR PERSONS MAKING ANY PROPOSAL FOR THE ABOVE WORK; THAT THEY ARE IN ALL RESPECTS FAIR AND WITHOUT COLLUSION OR FRAUD; AND THAT NO PERSON ACTING IN ANY OFFICIAL CAPACITY FOR THE CITY OF DULUTH IS DIRECTLY OR INDIRECTLY INTERESTED THEREIN, OR IN ANY PORTION OF THE PROFIT THEREOF.

(Initial)

(see additional page(s))
SUBSCRIBED AND SWORN TO BEFORE ME THIS

DAY OF A.D.,

NOTARY PUBLIC

IMPORTANT NOTE BIDDERS:

1. PLEASE DISREGARD THE NOTE ON PAGE 1 REGARDING SALES TAX FOR THIS BID. ALL APPLICABLE SALES AND/OR USE TAXES ARE TO BE INCLUDED IN BID PRICING. ALSO, ALL BIDS ARE TO BE F.O.B. JOBSITE. THE BLANK ON PAGE ONE FOR FREIGHT IS TO BE LEFT BLANK.

2. THERE WILL BE A PRE-BID MEETING ON TUESDAY, FEBRUARY 19TH, 2013, AT 2:00 PM LOCAL TIME IN CONFERENCE ROOM 105A, CITY HALL, LOCATED AT 401 WEST 1ST STREET, DULUTH, MINNESOTA. IT IS RECOMMENDED THAT ALL BIDDERS ATTEND THIS PRE-BID MEETING.

Delivery Contact: Howard Smith, P.E.
City of Duluth Engineering Department
218-730-5092

(Initial)
## EXHIBIT A

Bld # 13-0121  Project # 0839GS

8" Gas Main Replacement on First Street from Mesaba Ave to 15th Ave W

### Item No.  Spec. No.  Description  Unit  Est. Qty  Unit Price  Total Price

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Spec. No.</th>
<th>Description</th>
<th>Unit</th>
<th>Est. Qty</th>
<th>Unit Price</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2021.501</td>
<td>MOBILIZATION</td>
<td>LUMP SUM</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2101.511</td>
<td>CLEAR AND GRUB</td>
<td>LUMP SUM</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2021.501</td>
<td>REMOVE 8&quot; STEEL GAS MAIN FROM 16&quot; CI CASING</td>
<td>LUMP SUM</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2104.501</td>
<td>REMOVE CURB AND GUTTER</td>
<td>LIN FT</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>2104.503</td>
<td>REMOVE CONCRETE PAVEMENT/DRIVEWAY/PAVERS</td>
<td>SQ FT</td>
<td>1200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2104.505</td>
<td>REMOVE BITUMINOUS PAVEMENT</td>
<td>SQ YD</td>
<td>1850</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>2104.513</td>
<td>SAW BITUMINOUS/CONC PAVEMENT - FULL DEPTH</td>
<td>LIN FT</td>
<td>1200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>2211.502</td>
<td>AGGREGATE BASE, CLASS 5 (CV)</td>
<td>CU YD</td>
<td>680</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>2360.502</td>
<td>TYPE SP 12.5 NON-WEARING COURSE MIXTURE (3,B)</td>
<td>TON</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>2451.503</td>
<td>GRANULAR BACKFILL (CV)</td>
<td>CU YD</td>
<td>800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>2105.503</td>
<td>BOULDER EXCAVATION (TRENCH)</td>
<td>CU YD</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>2105.503</td>
<td>ROCK EXCAVATION (TRENCH)</td>
<td>CU YD</td>
<td>425</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>2501.511</td>
<td>REPLACE 12&quot; GALVANIZED CORRUGATED METAL PIPE</td>
<td>LIN FT</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>2501.511</td>
<td>REPLACE 15&quot; GALVANIZED CORRUGATED METAL PIPE</td>
<td>LIN FT</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>2501.515</td>
<td>12&quot; CM PIPE APRONS</td>
<td>EACH</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>2501.515</td>
<td>15&quot; CM PIPE APRONS</td>
<td>EACH</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>2505.602</td>
<td>FURNISH &amp; INSTALL 8&quot; PE VALVE AND VALVE BOX</td>
<td>EACH</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>2505.602</td>
<td>FURNISH &amp; INSTALL 2&quot; PE VALVE AND VALVE BOX</td>
<td>EACH</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>2505.602</td>
<td>FURNISH &amp; INSTALL 1&quot; PE VALVE AND VALVE BOX</td>
<td>EACH</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>2505.602</td>
<td>RECONNECT EXISTING 1/2&quot; PE SERVICES TO NEW MAIN</td>
<td>EACH</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>2505.602</td>
<td>EXCAVATION FOR CONNECTING NEW HP GAS MAIN TO EXISTING GAS MAIN (WO VALVE) OR HP CUTOFF</td>
<td>EACH</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>2505.603</td>
<td>FURNISH &amp; INSTALL 2&quot; PE GAS MAIN OR SERVICE</td>
<td>LIN FT</td>
<td>125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>2505.603</td>
<td>FURNISH &amp; INSTALL 1&quot; PE GAS MAIN OR SERVICE</td>
<td>LIN FT</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>2505.603</td>
<td>FURNISH &amp; INSTALL 12&quot; PE GAS MAIN INSTALLED BY INSERTION</td>
<td>LIN FT</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>2506.603</td>
<td>FURNISH &amp; INSTALL 8&quot; PE GAS MAIN W/ GRANULAR ENCASEMENT</td>
<td>LIN FT</td>
<td>3600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>2521.501</td>
<td>5&quot; CONCRETE WALK (INCLUDES REMOVAL AND 4&quot; C-5 BASE)</td>
<td>SQ FT</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>2531.501</td>
<td>CONCRETE CURB AND GUTTER DESIGN B624</td>
<td>LIN FT</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>2563.801</td>
<td>TRAFFIC CONTROL</td>
<td>LUMP SUM</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>2573.550</td>
<td>EROSION CONTROL</td>
<td>LUMP SUM</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>2575.523</td>
<td>STABILIZATION AND RESTORATION OF VEGETATION</td>
<td>SQ YD</td>
<td>1200</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GRAND TOTAL:** $ 

**INITIAL:** ____________________
NOTES
1. INSTALL HEAVY DUTY SILT FENCE DOWN GRADIENT OF EXCAVATION

PROPOSED 8" TRANSITION FITTING (STA. 1+10)
PROPOSED 1" DRILL NIPPLE (STA. 1+08)

SEE NOTE #1

REMOVE EX. 8" STL AND INSERT 12" PE
WITH 8" PE CONNECTING ENDS IN CI CASING
SEE CONNECTION PROCEDURE #6

EX. ELECTRIC TOWER BASE (THE)
EX. HANDRAIL

PROPOSED PE BEND(S) (STA. 2+27)

PROPOSED 80' PE FITTING (STA. 2+46)

ABN. 4' CI GAS
APPROXIMATE CASING TERMINATION
EX. 10" WATER
EX. 36" STL WATER

PUBLIC WORKS & UTILITIES
TO REMOVE 20' OF CASING
(STA. 1+00 TO 1+20)

EX. 8" STL TO BE REMOVED FROM 18" CI CASING
TESTED PE SHALL BE INSERTED IN EX. 16" CI CASING

PROPOSED CONNECTION (STA. 1+10)
CONNECTION PROCEDURE #8 (STA. 2+67)

PROCEDURES 1 - 7 ARE COMPLETED
CONFIRM 2" PE GAS MAIN INSTALLED BY OTHERS IN 16TH AVE W

DONE BY CONTRACTOR

A. 12" P.E. PIPE CAN BE FUSED AND PULLED FROM EITHER DIRECTION CONTRACTOR TO DETERMINE WHICH DIRECTION
B. FUSE 160° F 12" PE PIPE ABOVE GRADE, LOCATION TO BE DETERMINED IN FIELD

DONE BY PUBLIC WORKS AND UTILITIES

C. INSTALL 1" DRILL NIPPLE AT STA. 1+05
D. CLOSE VALVE #05648 ON 8" STEEL GAS AT 16TH AVE. W. AND SUPERIOR ST.
E. DEPRESSURIZE AND PURGE 8" STEEL GAS MAIN, GAS TO AIR THROUGH DRILL NIPPLE
F. AND 1" PE TAPPING TEE AT STA. 2+12 (INSTALL BY CONTRACTOR IN PROCEDURE #5)
G. CUT OFF 8" STEEL GAS EAST OF BEND AT STA. 2+67
H. CUT OFF 8" GAS AT STA. 1+10 AND INSTALL 8" TRANSITION WITH CAP NORTH OF DRILL NIPPLE

DONE BY CONTRACTOR

I. VALVE AT 2+75 MUST BE IN CLOSED POSITION
J. REMOVE EXISTING 8" STEEL GAS FROM 16" CASING FROM STA. 2+47 SOUTH TO STA. 2+10
K. CONTRACTOR MUST INSERT AND FULL 10" TEST PIECE OF 12" PE THROUGH CASING
L. INSERT 12" P.E. PIPE IN CASINGS
M. RG 12" P.E. PIPE AND INSTALL REDUCERS, 8" P.E. PIPE AND TEST CAR
N. TEST P.E. PIPE PER STANDARD SPECIFICATIONS
O. USING TESTED 8" P.E. PIPE AND BENDS, CONNECT NORTH END OF INSERTED PIPE TO 8" PE WEST OF NEW VALVE LOCATED AT STA 2+75
P. USING TESTED 8" P.E. PIPE, CONNECT SOUTH END OF INSERTED PIPE TO TRANSITION

DONE BY PUBLIC WORKS AND UTILITIES

Q. INSTALL 1" PE TAPPING TEE, WEST OF VALVE AT STA. 2+75
R. CLOSE DRILL NIPPLE ON 8" STEEL GAS MAIN SOUTH OF TRANSITION FITTING
S. OPEN VALVE #05648 ON 8" STEEL GAS AT 16TH AVE. W. AND SUPERIOR ST. AND PURGE GAS TO AIR THROUGH 1" PE TAPPING TEE WEST OF VALVE AT STA 2+15
T. CUT AND CAP 1" PE TAPPING TEE, PRESSURIZE MAIN, AND OPEN VALVE AT STA. 2+75
U. SOAP TEST ALL CONNECTIONS
V. SEAL ALL 8" STEEL GAS MAIN ENDS AND ABANDON PIPE TO STA. 2+12

DONE BY CONTRACTOR

W. CUT AND CAP 1" PE TAPPING TEE AT STA. 2+12
X. SOAP TEST ALL CONNECTIONS AFTER PRESSURIZED

CERTIFIED BY: ERIC R. SHAWER, P.E.
REG. NO.: 25374
ADDITIONAL NO. 1
2-21-2013
2013 - W. 1ST ST. GAS MAIN REPLACEMENT

DRAWN BY: NLD
SIGNATURE: B. SHAWER
DATE: FEBRUARY 4, 2013

CITY PROJECT NO.: 083605
CITY OF DUUUUR
STATE AID PROJECT NO.
SHEET NO. 19 OF 20

APPROXIMATE LOCATION OF 8" X 12" PE REDUCER FOR CONNECTION
PROPOSED 8" TRANSITION FITTING (STA. 1+10)
PUBLIC WORKS & UTILITIES TO REMOVE CASING STATION 1+00 TO 1+20
PROPOSED 1" DRILL NIPPLE (STA. 1+05)

APPROXIMATE LOCATION OF 8" X 12" PE REDUCER FOR CONNECTION
PROPOSED 8" TRANSITION FITTING (STA. 1+10)
PUBLIC WORKS & UTILITIES TO REMOVE CASING STATION 1+00 TO 1+20
PROPOSED 1" DRILL NIPPLE (STA. 1+05)