ADDENDUM NO. 1

PLANS AND CONSTRUCTION DOCUMENTS FOR THE CONSTRUCTION OF THE:

STORM DRAIN AND WATERLINE IMPROVEMENTS AT ANDERSON WAY
PROJECT NOS. CIP 18-649 AND CIP 18-410

Bid Date: March 5, 2019 @ 2:00 P.M.

Bid Location: Loma Linda Council Chambers, 25541 Barton Rd., Loma Linda CA 92354

This addendum is issued as a supplement to the bid documents for the City of Loma Linda Contract Documents and Specifications for the above-referenced project. Receipt of this addendum is to be acknowledged by completing the Addenda Acknowledgement of the Bid Proposal, page 9.

Description:

1. The waterline improvement portion of the project is postponed at this time, therefore, bid schedule B, page 11, is hereby removed. This portion of the project will come forward at a later date. All registered plan holders shall receive a complimentary set of revised plans and specifications.

2. There is a change to the Storm Drain improvements to increase the manhole size to 60” and to change the storm drain pipe material to ADS HP (or equivalent) pipe.

This addendum:

1. Replace page 10, Bid Schedule A, with this attachment.
2. Remove page 11, Bid Schedule B.
3. Replace page 61, Section 26, with this attachment.
## BID SCHEDULE “A”

**FOR**

**STORM DRAIN IMPROVEMENTS AT ANDERSON WAY**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>ESTIMATED QUANTITY</th>
<th>DESCRIPTION (UNIT PRICE IN WORDS)</th>
<th>UNIT PRICE (IN FIGURES)</th>
<th>TOTAL (IN FIGURES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 LS</td>
<td>Mobilization at the lump sum price of</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1 EA</td>
<td>Construct concrete collar</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>396 LF</td>
<td>Install 36” ADS HP storm drain pipe</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>4 EA</td>
<td>Construct 60” Diameter ADS HP manhole</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1 EA</td>
<td>Construct concrete head wall</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>142 SF</td>
<td>Construct rip-rap</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL BID (Items 1-6)** $__________

---

**Total written in words**

**NOTE:** The unit price must be written in words and also shown in figures. The total price must be extended for each item of work and the total of all items inserted in the space provided. Bidder must bid on both bid schedules.

---

*Addendum 1*
ADS N-12® WT IB PIPE (PER AASHTO) SPECIFICATION

Scope
This specification describes 4- through 60-inch (100 to 1500 mm) ADS N-12 WT IB pipe (per AASHTO) for use in gravity-flow land drainage applications.

Pipe Requirements
ADS N-12 WT IB pipe (per AASHTO) shall have a smooth interior and annular exterior corrugations.
- 4- through 10-inch (100 to 250 mm) pipe shall meet AASHTO M252, Type S
- 12- through 60-inch (300 to 1500 mm) pipe shall meet AASHTO M294, Type S or ASTM F2306.
- Manning's "n" value for use in design shall be 0.012.

Joint Performance
Pipe shall be joined using a bell & spigot joint meeting the requirements of AASHTO M252, AASHTO M294, or ASTM F2306. The joint shall be watertight according to the requirements of ASTM D3212. Gaskets shall meet the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gasket is free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly. 12- through 60-inch (300 to 1500 mm) diameters shall have an exterior bell wrap installed by the manufacturer.

Fittings
Fittings shall conform to AASHTO M252, AASHTO M294, or ASTM F2306. Bell and spigot connections shall utilize a spun-on or welded bell and valley or saddle gasket meeting the watertight joint performance requirements of AASHTO M252, AASHTO M294, or ASTM F2306.

Field Pipe and Joint Performance
To assure watertightness, field performance verification may be accomplished by testing in accordance with ASTM F2487. Appropriate safety precautions must be used when field-testing any pipe material. Contact the manufacturer for recommended leakage rates.

Material Properties
Virgin material for pipe and fitting production shall be high-density polyethylene conforming with the minimum requirements of cell classification 424420C for 4- through 10-inch (100 to 250 mm) diameters, and 435400C for 12- through 60-inch (300 to 1500 mm) diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content should not exceed 4%. The 12- through 60-inch (300 to 1500 mm) virgin pipe material shall comply with the notched constant ligament-stress (NCLS) test as specified in Sections 9.5 and 5.1 of AASHTO M294 and ASTM F2306 respectively.

Installation
Installation shall be in accordance with ASTM D2321 and ADS recommended installation guidelines, with the exception that minimum cover in trafficked areas for 4- through 48-inch (100 to 1200 mm) diameters shall be one foot (0.3 m) and for 60-inch (1500 mm) diameter the minimum cover shall be 2 ft. (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1 (compacted), Class 2 (minimum 90% SPD) or Class 3 (minimum 95%) material. Maximum fill heights depend on emendment material and compaction level; please refer to Technical Note 2.01. Contact your local ADS representative or visit our website at www.ads-pipe.com for a copy of the latest installation guidelines.

Pipe Dimensions

<table>
<thead>
<tr>
<th>Pipe I.D. in (mm)</th>
<th>4 (100)</th>
<th>6 (150)</th>
<th>8 (200)</th>
<th>10 (250)</th>
<th>12 (300)</th>
<th>15 (375)</th>
<th>18 (450)</th>
<th>24 (600)</th>
<th>30 (750)</th>
<th>36 (900)</th>
<th>42 (1050)</th>
<th>48 (1200)</th>
<th>60 (1500)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe O.D.* in (mm)</td>
<td>4.8 (122)</td>
<td>6.9 (175)</td>
<td>9.1 (231)</td>
<td>11.4 (290)</td>
<td>14.5 (368)</td>
<td>18 (457)</td>
<td>22 (559)</td>
<td>28 (711)</td>
<td>36 (914)</td>
<td>42 (1067)</td>
<td>48 (1219)</td>
<td>54 (1372)</td>
<td>67 (1702)</td>
</tr>
</tbody>
</table>

*Pipe O.D. values are provided for reference purposes only, values stated for 12 through 60-inch are ±1 inch. Contact a sales representative for exact values.

©ADS, Inc., February 2017