CONSTRUCTION NOTES:

1. ALL MATERIAL AND WORKMANSHIP FOR CLEANOUTS SHALL CONFORM TO SAN FRANCISCO STANDARD SPECIFICATIONS AND APPLICABLE CODES PER SAN FRANCISCO DBI AND PUBLIC WORKS.

2. CLEANOUT PIPE AND FITTINGS SHALL BE SAME SIZE AND MATERIAL AS SLOTTED UNDERDRAIN PIPE.

3. COVER SHALL BE TRAFFIC RATED WITH TAMPER RESISTANT LOCKING MECHANISM. COVER SHALL INCLUDE CASTING OF "CO" OR EQUAL.

4. CLEANOUT COVERS AND LIDS MUST COMPLY WITH SAN FRANCISCO PUBLIC WORKS STANDARD ACCESSIBILITY REQUIREMENTS.

5. CLEANOUT SHALL BE INSTALLED TO ALLOW FOR MAINTENANCE ACCESS TO ALL PIPES.

6. ALL FITTINGS SHALL BE SOIL TIGHT.

7. MINIMUM STREAMBED COBBLE DIAMETER SHALL BE LARGER THAN MAXIMUM GRAVE OPENING.

8. GROUT ALL PENETRATIONS, CRACKS, SEAMS, AND JOINTS WITH CLASS "C" GROUT.

9. CLEANOUT SHALL BE INSTALLED TO ALLOW FOR MAINTENANCE ACCESS TO ALL PIPES.

10. ALL FITTINGS SHALL BE SOIL TIGHT.
FOLSOM STREETSCAPE IMPROVEMENT PROJECT
WATER FACILITY RELOCATIONS

LIST OF DRAWINGS

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<td>WD-2803.12-02</td>
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<td>WD-2803.12-05</td>
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KEY PLAN

LOCATION PLAN

GENERAL NOTES

THE LOCATION AND GENERAL ARRANGEMENT OF UNDERGROUND UTILITIES, UNDERGROUND STRUCTURES, PIPE LINES WITH FITTINGS, VALVES AND APPURTENANCES, WHERE SHOWN, ARE DIAGRAMMATIC.

INFORMATION AS TO UNDERGROUND AND/OR OTHER CONDITIONS AS INDICATED BY ADJUSTMENTS IN PIPING ALIGNMENT OR OBSTRUCTION SHOWN ON THE PLANS AND/OR SPECIFICATIONS HAS BEEN OBTAINED WITH REASONABLE CARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORDS OF THE OWNERS OF THE UTILITIES AND HAS BEEN RECORDED IN GOOD FAITH.

THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT THE WATER DEPARTMENT AND THE OWNERS OF UTILITIES MAKE ANY REPRESENTATION AS TO THE COMPLETENESS OR ACCURACY OF SAID INFORMATION OF UTILITY FACILITIES THAT MAY HAVE BEEN PLACED OR INDICATED HERE ON.

THE PROPOSED LOCATION WITHIN THE STREET OR SIDEWALK AREA FOR FACILITIES TO BE CONSTRUCTED UNDER THIS CONTRACT, AS SHOWN ON THE PLANS, IS APPROXIMATE ONLY. THE CONTRACTOR SHALL DIG TEST HOLES TO DETERMINE THE EXACT LOCATION OF THE WORK WITHIN THE STREET OR SIDEWALK AREA CHANGED IN THE ALIGNMENT OF ANY PORTION OF THIS WORK WHICH MAY RESULT IN DIFFERENT CONSTRUCTION METHODS OR DIFFERENT CONDITIONS, SUCH AS REQUIRING HAND DIGGING FOR PORTIONS OF THE WORK, WILL NOT BE SUBJECT TO CLAIM FOR ANY EXTRA PAYMENT.

FOR ALL POTABLE WATER (PW) FACILITY RELOCATION WORK, CONTRACTOR WILL PERFORM ALL PERMITTING, EXCAVATION, SHORING, SITE PREPARATION AND BACKFILL WORK AS INSTRUCTED BY SFWD INSPECTOR AND AS DESCRIBED IN PROJECT SPECIFICATIONS. SFWD PERSONNEL WILL PERFORM ALL PLUMBING / PIPING WORK. CONTRACTOR WILL PERFORM ALL BACKFILL & RESTORATION WORK FOLLOWING THE COMPLETION OF INSTALLATION OF UNDERGROUND UTILITIES BY SFWD PERSONNEL.

ALL AUXILIARY WATER SUPPLY SYSTEM (AWS) FACILITY RELOCATION WORK WILL BE PERFORMED BY CONTRACTOR AS SHOWN IN MA DRAWINGS AND PER PROJECT SPECIFICATIONS. SOME RELOCATION WORK WILL BE COMPLETED AS PART OF A SEPARATE CONTRACT. THIS WORK IS SHOWN ON THESE SHEETS FOR INFORMATIONAL PURPOSES ONLY.
(Diagram of Poison Street with New Work Plan)

**NOTES:***
1. All work shall be performed in accordance with the contract and plans.
2. Work shall be completed by the contractor and verified by the engineer.
3. The contractor shall ensure the installation of the required materials.
**Material Data**

<table>
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<tr>
<th>Component</th>
<th>ASTM Designation</th>
<th>MIN. Density</th>
<th>Component</th>
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<td>ASME SA 106J</td>
<td>0.28</td>
<td>Galvanized Structure</td>
<td>AISI 316L</td>
<td>0.28</td>
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<tr>
<td>Round Tube</td>
<td>ASME SA 402</td>
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<td>Round Tube</td>
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<td>Anchor Rods</td>
<td>ASTM A 193</td>
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<td>ASTM A 193</td>
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**Pole and Luminaire Arm Data**

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<th>ITEM</th>
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<th>PRODUCT DESCRIPTION</th>
<th>POLE Shaft</th>
<th>LUMINAIRE ARM</th>
<th>HANGER SHAFT</th>
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**NOTES:**

1. PRIOR TO THE RELEASE FOR MANUFACTURING, PLEASE CONFIRM THE ORIENTATIONS SHOWN IN THE RADIAL INDEX ARE CORRECT.

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**SECTION A-A**

**Summary of Design Details**

- **Material Data**
  - Square Tube: ASTM SA 106J, MIN. Density 0.28
  - Galvanized Structure: AISI 316L, MIN. Density 0.28

- **Pole and Luminaire Arm Data**
  - ITEM 1: 30 units, FL100-706/660-M5-S4-100, POLE Shaft 7.00, LUMINAIRE ARM 4.70, HANGER SHAFT 10.00, RADIAL INDEX 0.119
  - ITEM 2: 20 units, FL150-706/660-M5-S4-100, POLE Shaft 9.00, LUMINAIRE ARM 4.00, HANGER SHAFT 28.00, RADIAL INDEX 0.119

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**Additional Details**

- **Breakaway Banner Arm**
  - For sites where a breakaway arm is required, the PE-A136 breakaway arm is recommended. The PE-A136 breakaway arm is designed to break away at the specified load to prevent damage to the structure in the event of accidental impact.

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**Arup North America Ltd.**

560 Mission Street, Suite 700
San Francisco, CA 94105 USA
Tel (415) 957-9445 Fax (415) 957-9096

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**San Francisco Public Works**

30 Van Ness Avenue, 5th Floor
San Francisco, CA 94102-6028

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**Public Works**

City & County of San Francisco

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**Electrical Details**

- For E-0.30 for additional details.

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**Technical Approval**

[Stamp and Signature]