PRECAST DRAINAGE BOXES
SMALL STANDARD SIZES

<table>
<thead>
<tr>
<th>BOX SIZE</th>
<th>A (ID)</th>
<th>B (ID)</th>
<th>C (ID)</th>
<th>D (ID)</th>
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<tbody>
<tr>
<td>1'-0&quot; x 1'-0&quot;</td>
<td>10&quot;</td>
<td>10&quot;</td>
<td>6&quot;</td>
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<tr>
<td>1'-0&quot; x 2'-0&quot;</td>
<td>10&quot;</td>
<td>10&quot;</td>
<td>6&quot;</td>
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<tr>
<td>2'-0&quot; x 2'-0&quot;</td>
<td>10&quot;</td>
<td>10&quot;</td>
<td>6&quot;</td>
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<tr>
<td>3'-0&quot; x 3'-0&quot;</td>
<td>10&quot;</td>
<td>10&quot;</td>
<td>6&quot;</td>
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<tr>
<td>4'-0&quot; x 4'-0&quot;</td>
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OTHER SIZE BOXES WITH DIFFERENT A AND B DIMENSIONS 2", 6", 12", 18", 24", 30", 36", 42", 48" MAY BE USED FOR BOXES DEEPER THAN 4'-0".

REINFORCING STEEL LAYOUT

CONNECT RISER TO BASE WITH J-1 (HEALIN) CONNECTING WITH ARBITE M 188.

Risers: All unmarked precast concrete risers matching drainage box sizes may be used for boxes deeper than 4'-0".

DESIGN DATA

- STRUCTURAL CONCRETE: 1% = 4,000 psi; 3% = 60,000 psi
- SOIL DENSITY: 115 PFC
- EQUIVALENT SOIL (FLUID PRESSURE): 66 PFC
- DEPTH TO WATER TABLE: 5 FEET
- DEPTH TO BOTTOM OF BASE: 6 FEET

NOTES:

1. THIS DRAWING IS A PRECAST ALTERNATIVE TO THE CAST-IN-PLACE SIZING AND STRUCTURAL DETAILS IN THE DRAWING. USE DESIGN REINFORCING STEEL BARS TO CONFORM TO ACCEPTABLE 3% DESIGN PRESSURES FOR PRECAST DRAINAGE BOXES CONFORMING TO AMERICAN OR STATE STANDARDS.UDIO DESIGNS FOR BOXES CONFORMING TO THIS DRAWING.

2. USE CLAS SS AA (AG) CONCRETE.

3. USE TYPE II CEMENT (LOW ALKALI).

4. PROVIDE 2 INCH CONCRETE COVER TO REINFORCE CONCRETE.

5. BEY ROADSIDE PLANS FOR NUMBER LOCATION AND SIZE OF PIPES.

6. USE THE APPROPRIATE SIZE RISER GRATE AND FRAME AS INDICATED ON THE PLANS.

7. PROVIDE SUFFICIENT LIFTING POINTS AS A DRAINAGE BOX IS SIZING TOrig. ARE TILDING ELEVATIONS TO GENERAL DRAWINGS OR WITH THE REINFORCEMENT STEEL. SUPPLY A MINIMUM OF AT LEAST TWO DESIGNATED LIFTING POINTS PER SECTION (DESIGN LIFTS TO THE DESIGN HANDBOOK). MOUNTE LIFTING POINTS ON THE PRECAST DRAINAGE BOXES CONFORMING TO THIS DRAWING.

8. DO NOT USE DRAINAGE BOXES AND RISERS COMBINATIONS THAT EXCEED 8 FT.

9. PROVIDE CORE HOLES THAT ARE A MINIMUM OF PIPE OUTER DIAMETER PLUS 4 INCHES.

10. CUT CORE HOLES AT THE MANUFACTURING PLANT UNLESS FIELD CORE HOLES ARE AUTHORIZED BY THE ENGINEER. CENTER CORE HOLES TO HAVE A MINIMUM OF CONCRETE MEASURED FROM INSIDE WALL OF THE BOX TO CORE HOLES LOCATED CORE HOLES VERTICALLY TO HAVE A MINIMUM OF 3 INCHES OF CONCRETE DIRECTLY ABOVE THE CORE HOLES IS A MINIMUM OF 3 INCHES BELOW THE BOTTOM OF THE CORE HOLES IS A MINIMUM OF 3 INCHES.

11. DEVIATIONS FROM CORE HOLE TOLERANCES IN NOTES 9 AND 10 REQUIRE SHOP DRAWINGS. SHOP DRAWINGS WILL IDENTIFY LIFTING POINT NUMBER AND LOCATION.

12. DESIGN PRECAST IDS FOR ALL 41 LOTS LOCATIONS IS IN ACCORDANCE WITH AASHTO L RIBI DRAINAGE BOXES WITH DIFFERENT DESIGN SPECIFICATIONS. SUMMIT STAMPED (AA DRAWINGS, BASED BY PROFESSIONAL ENGINEERS OR PROFESSIONAL STRUCTURAL ENGINEERS LICENSED IN THE STATE OF UTAH TO THE ENGINEER.

13. DO NOT USE THIS DRAWING WHEN THE WATER TABLE IS WITHIN 5 FT OF FINISHED GRADE.