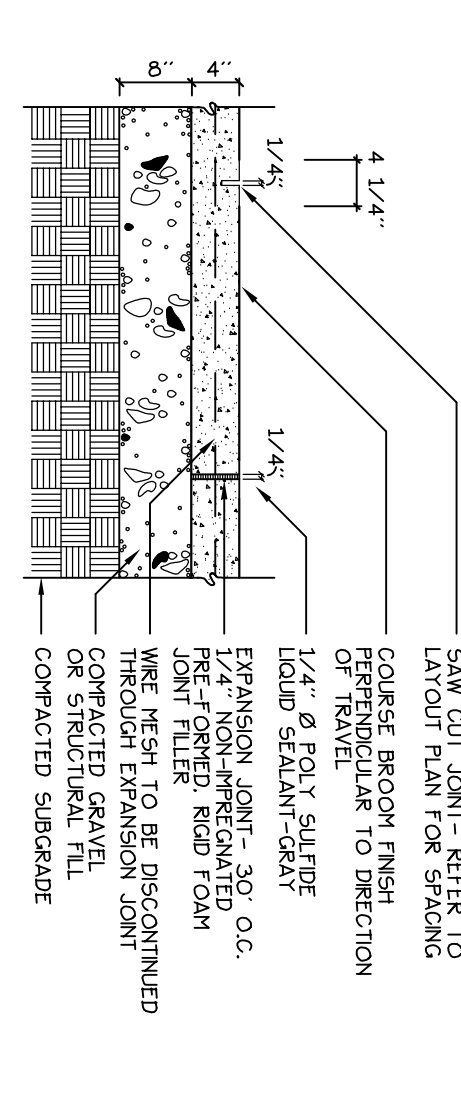
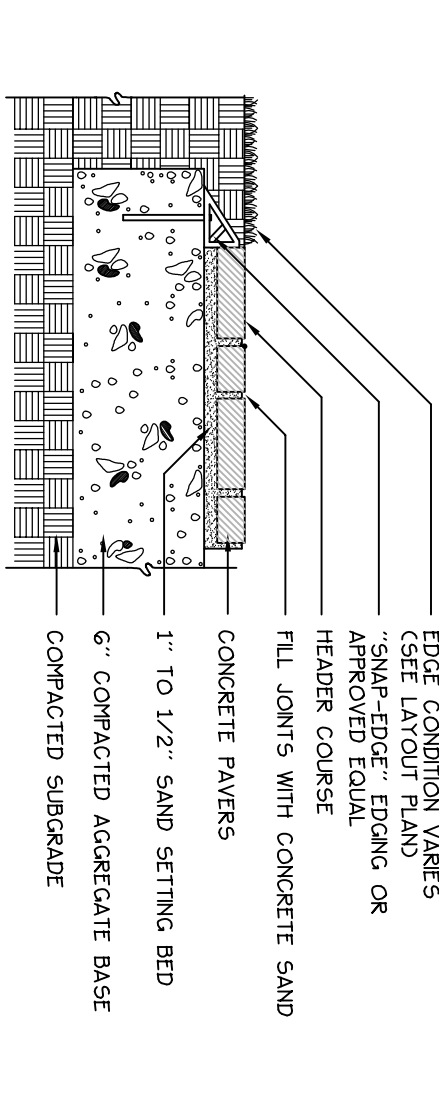


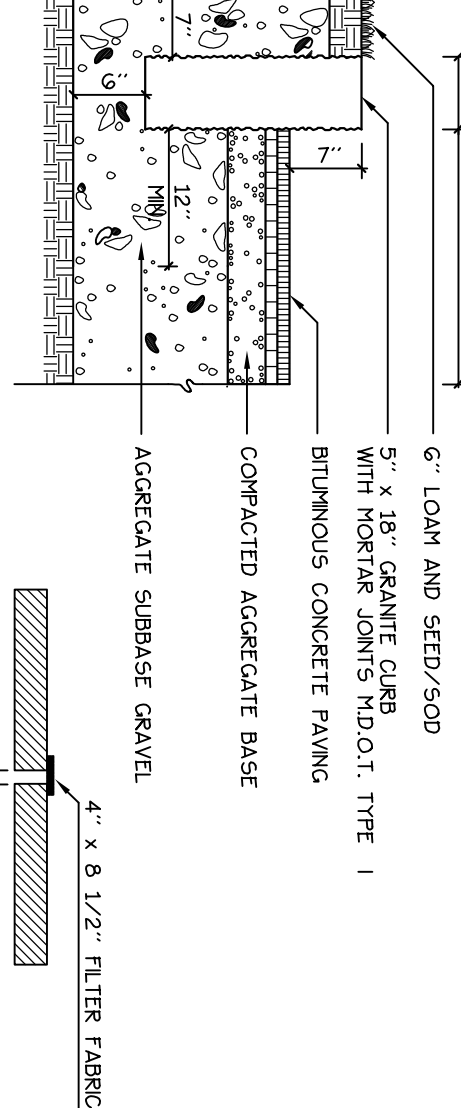
1 BITUMINOUS PAVEMENT - ROADS + PARKING  
NOT TO SCALE



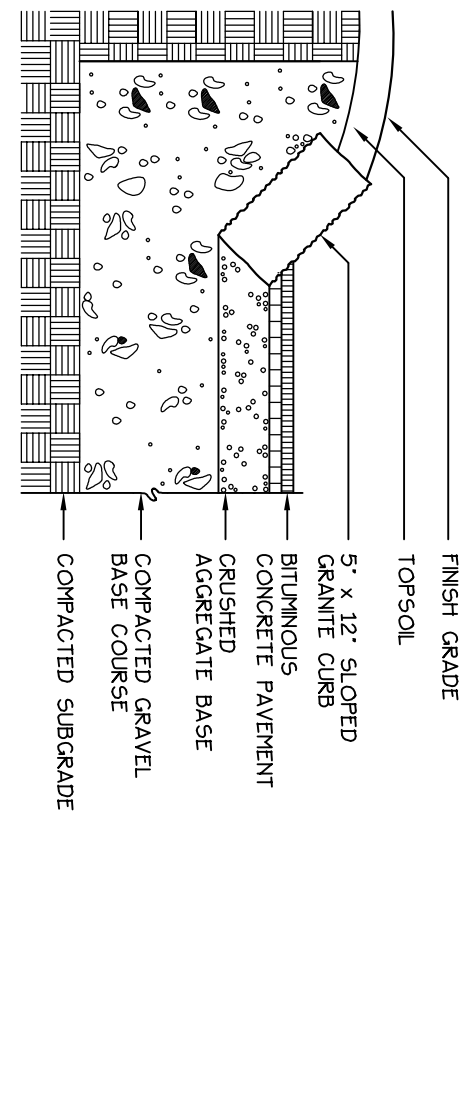
2 CONCRETE WALK  
NOT TO SCALE



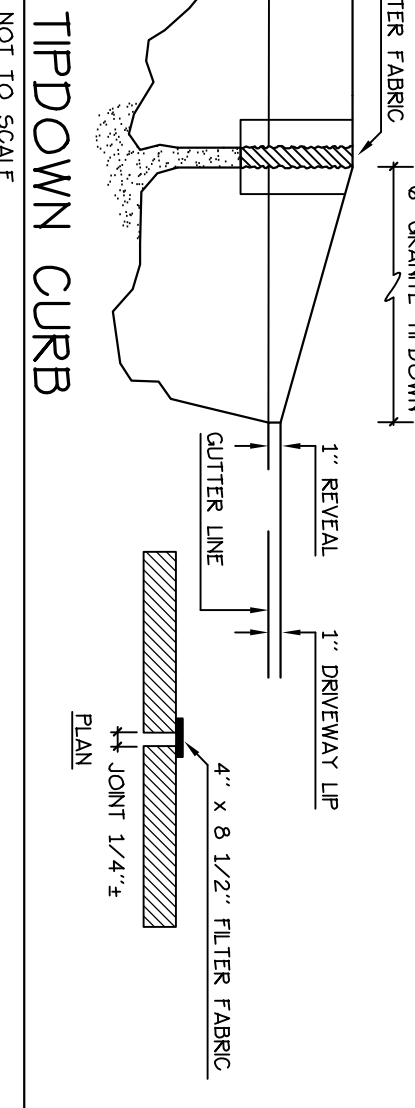
3 CONCRETE PAVERS  
NOT TO SCALE



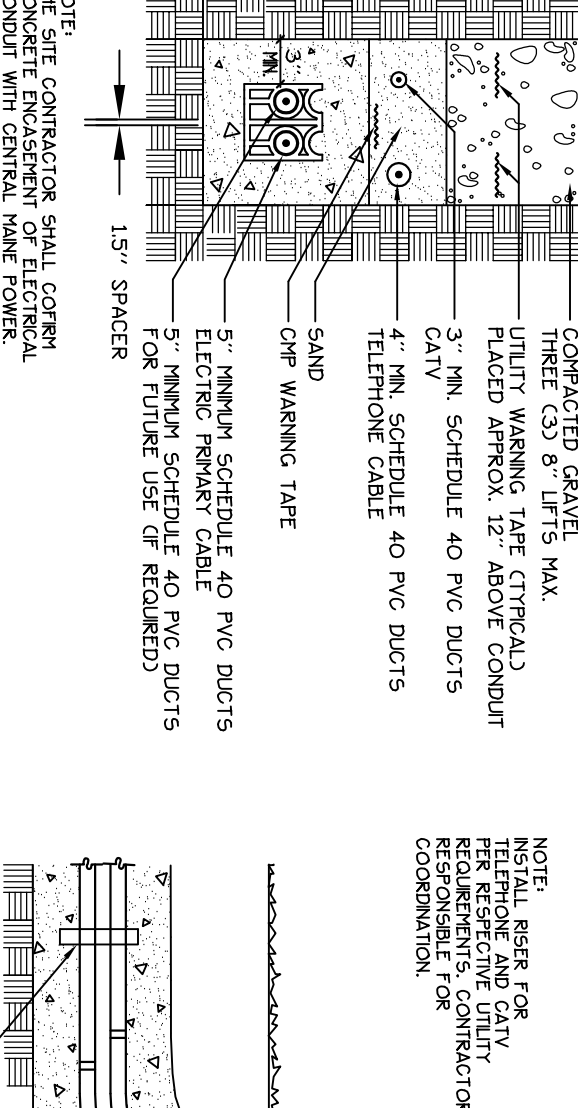
4 VERTICAL GRANITE CURB  
NOT TO SCALE



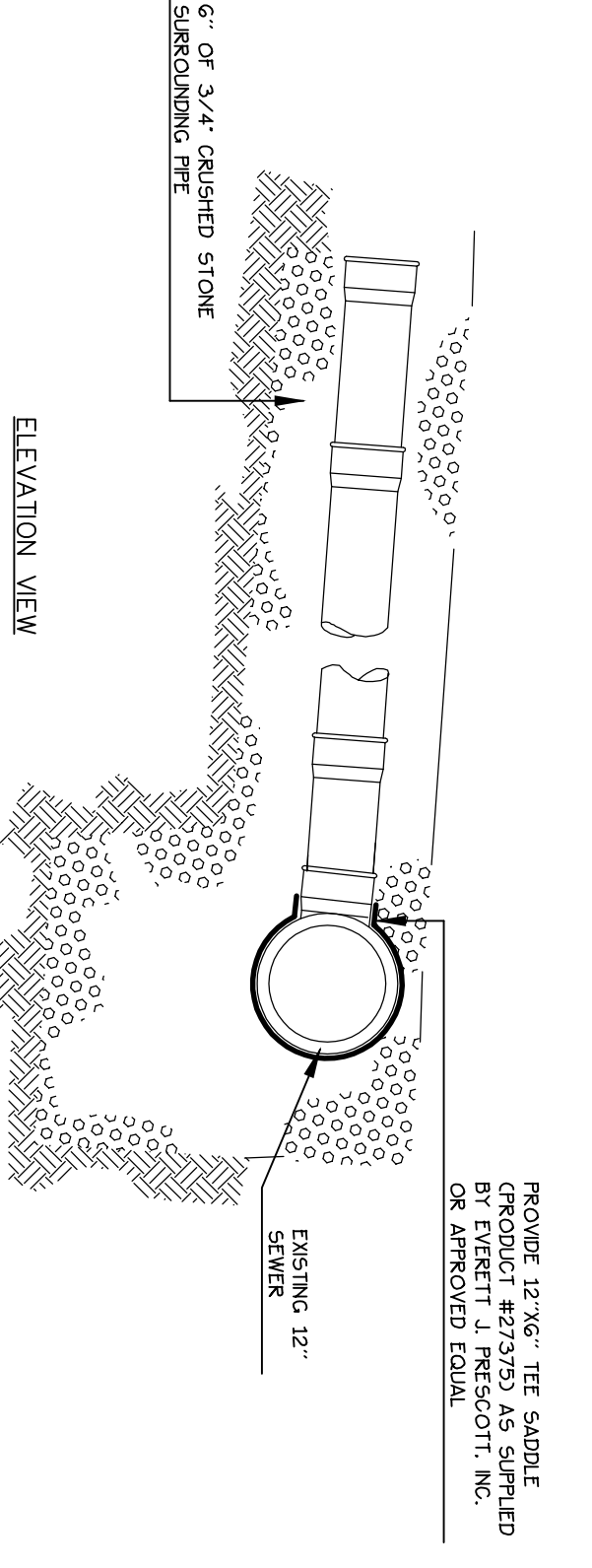
5 SLOPED GRANITE CURB  
NOT TO SCALE



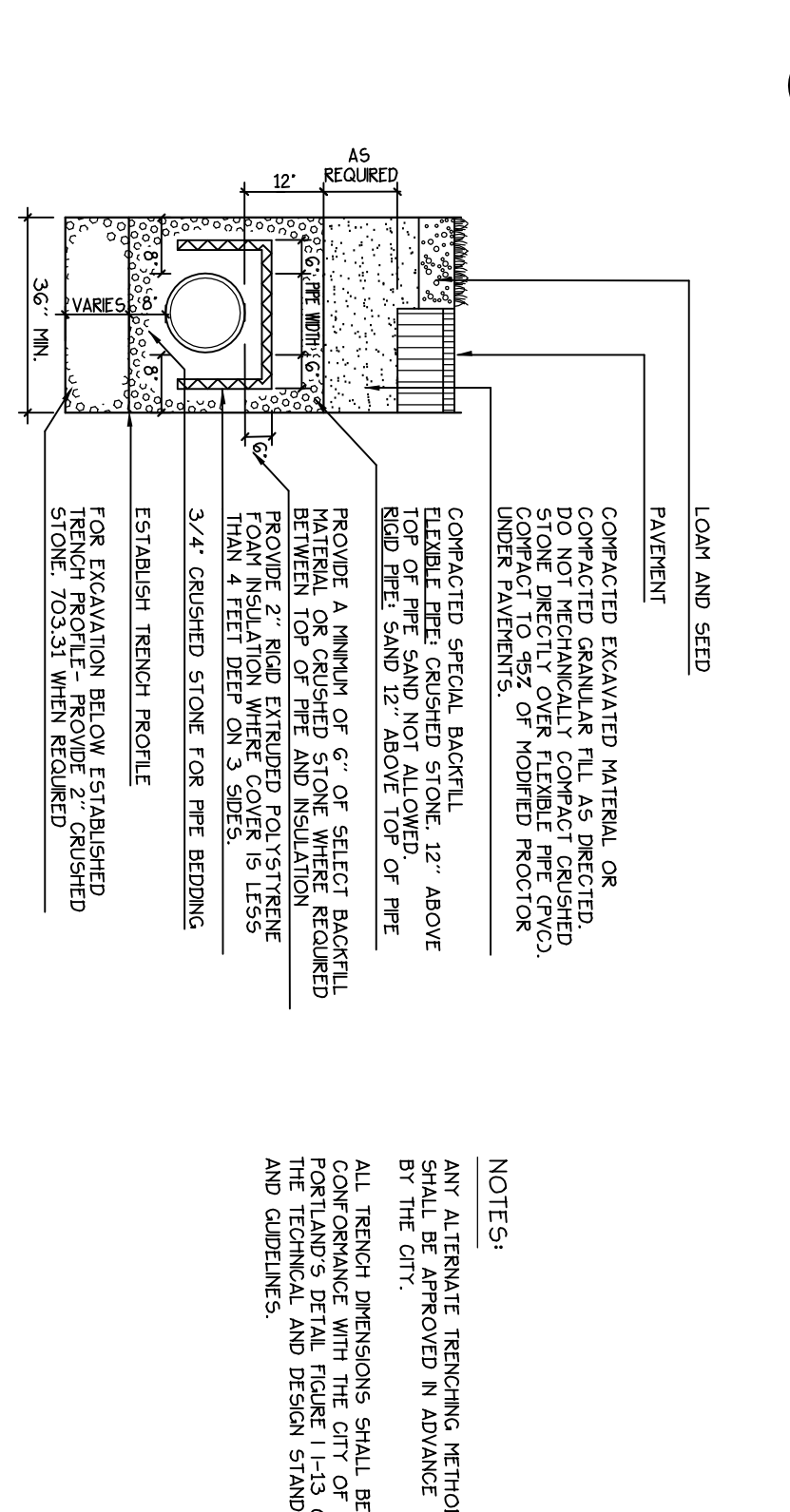
6 TIPDOWN CURB  
NOT TO SCALE



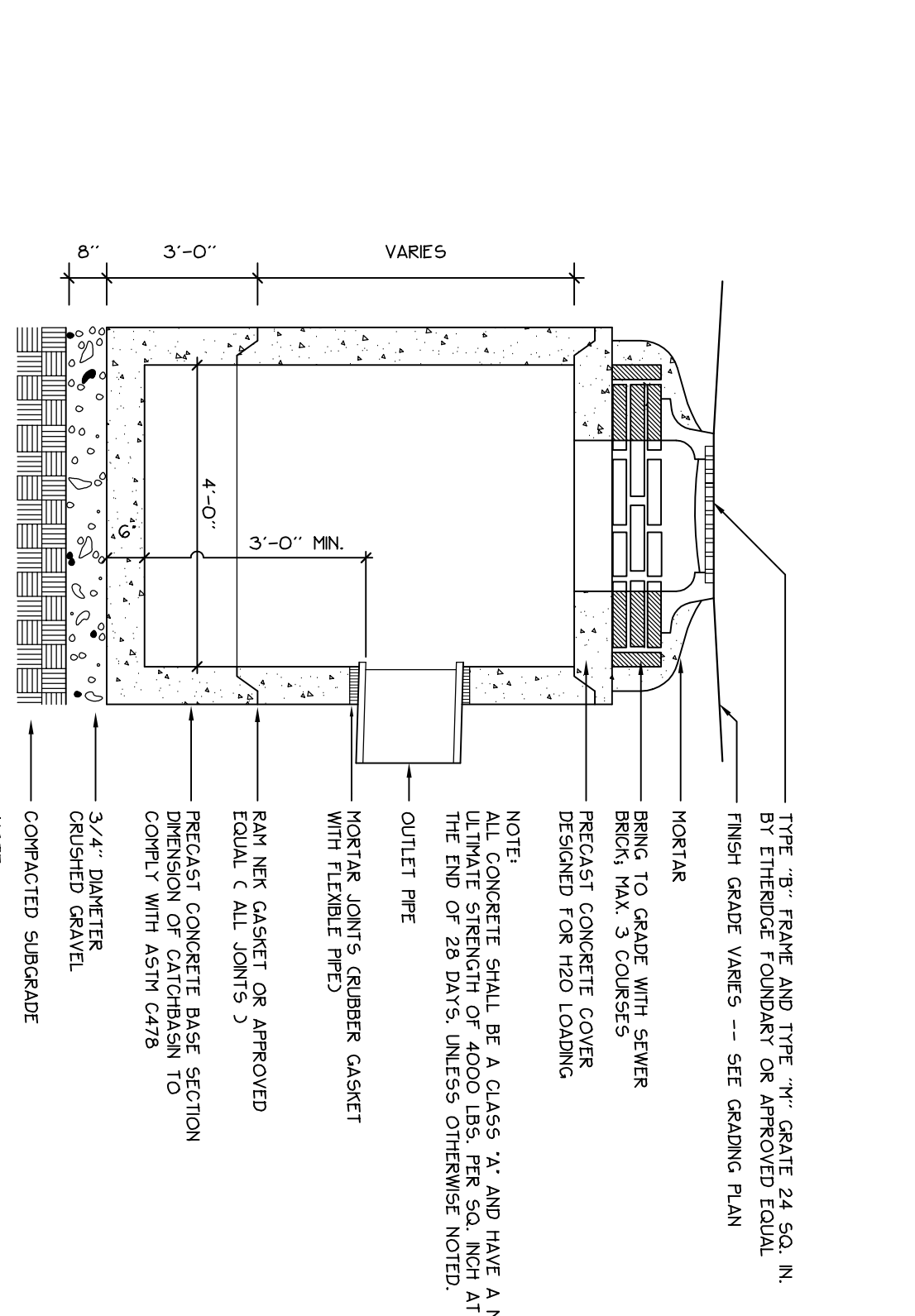
7 ELECTRICAL, TELEPHONE + CABLE T.V. TRENCH  
NOT TO SCALE



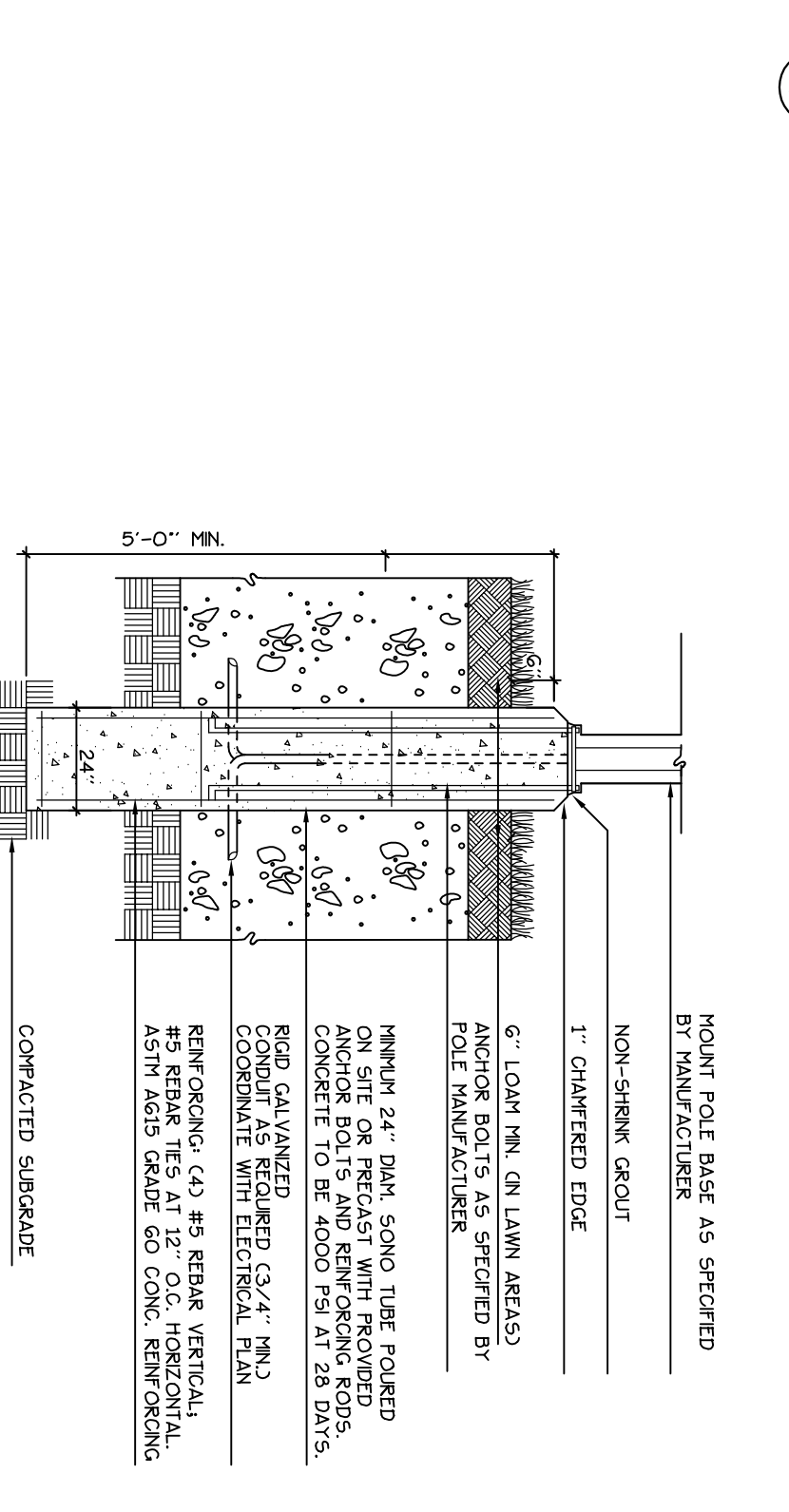
8 TYPICAL LATERAL SEWER CONNECTION DETAIL  
NOT TO SCALE



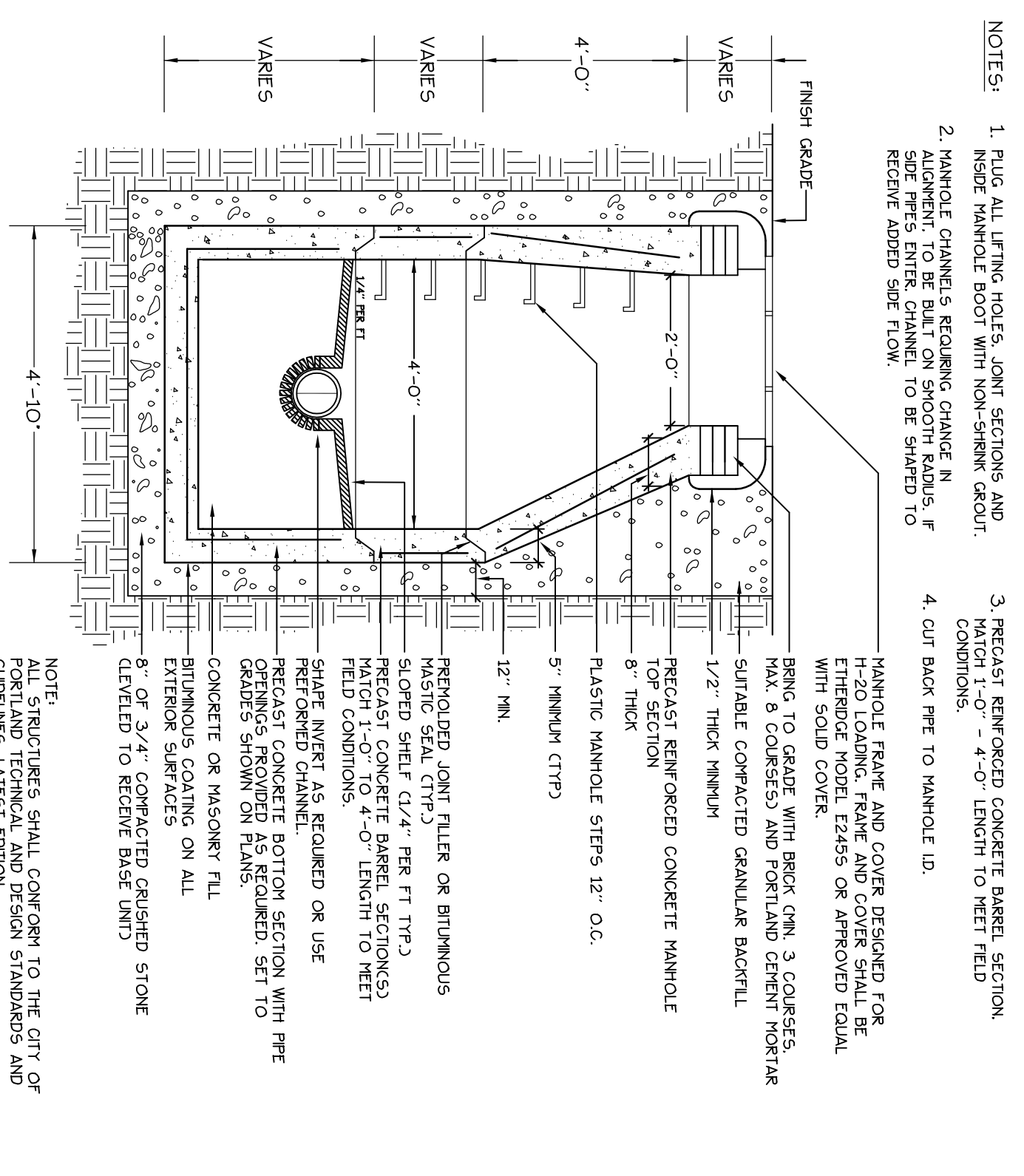
9 PIPE TRENCH DETAIL  
NOT TO SCALE



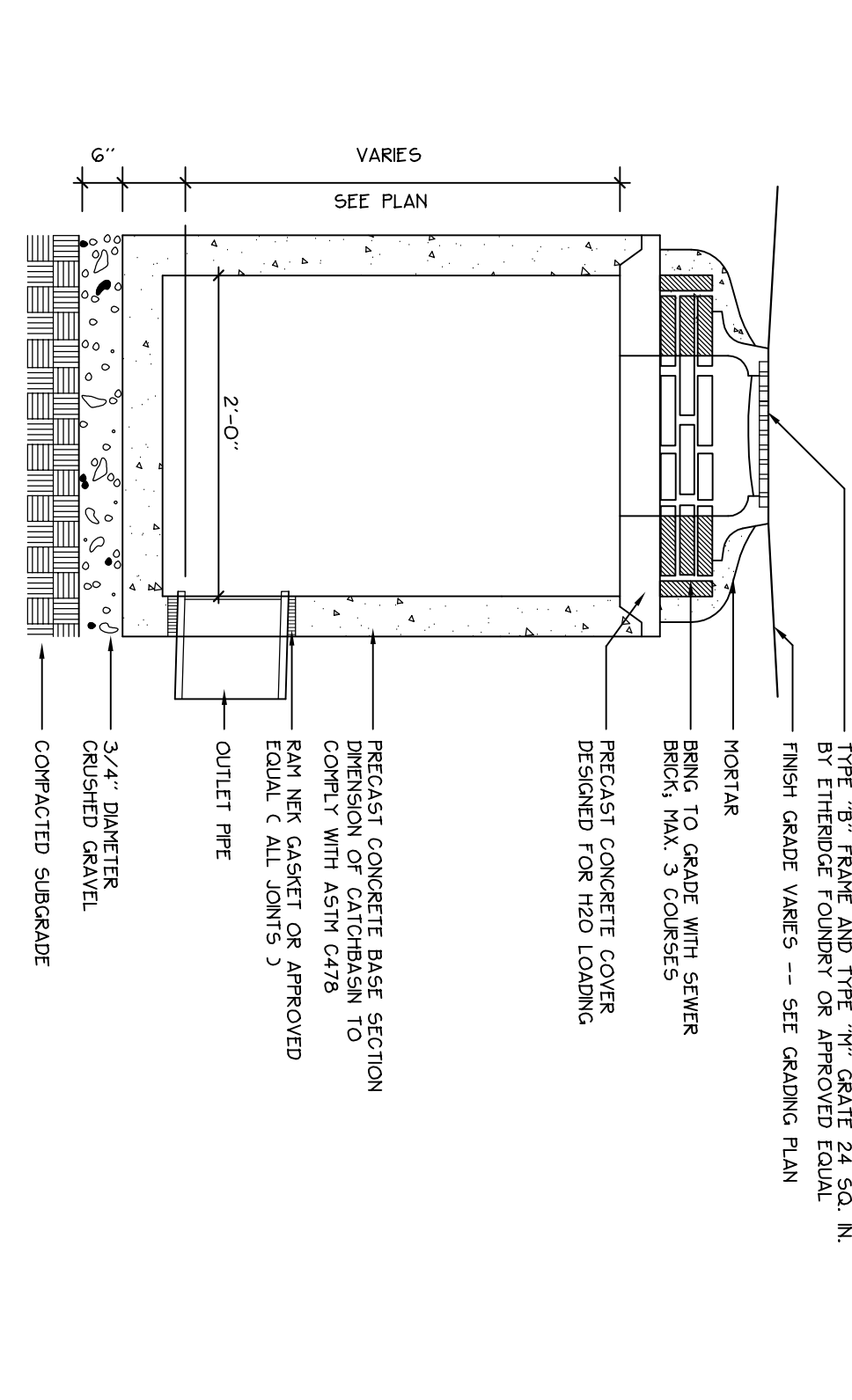
10 PRECAST CONCRETE CATCHBASIN  
NOT TO SCALE



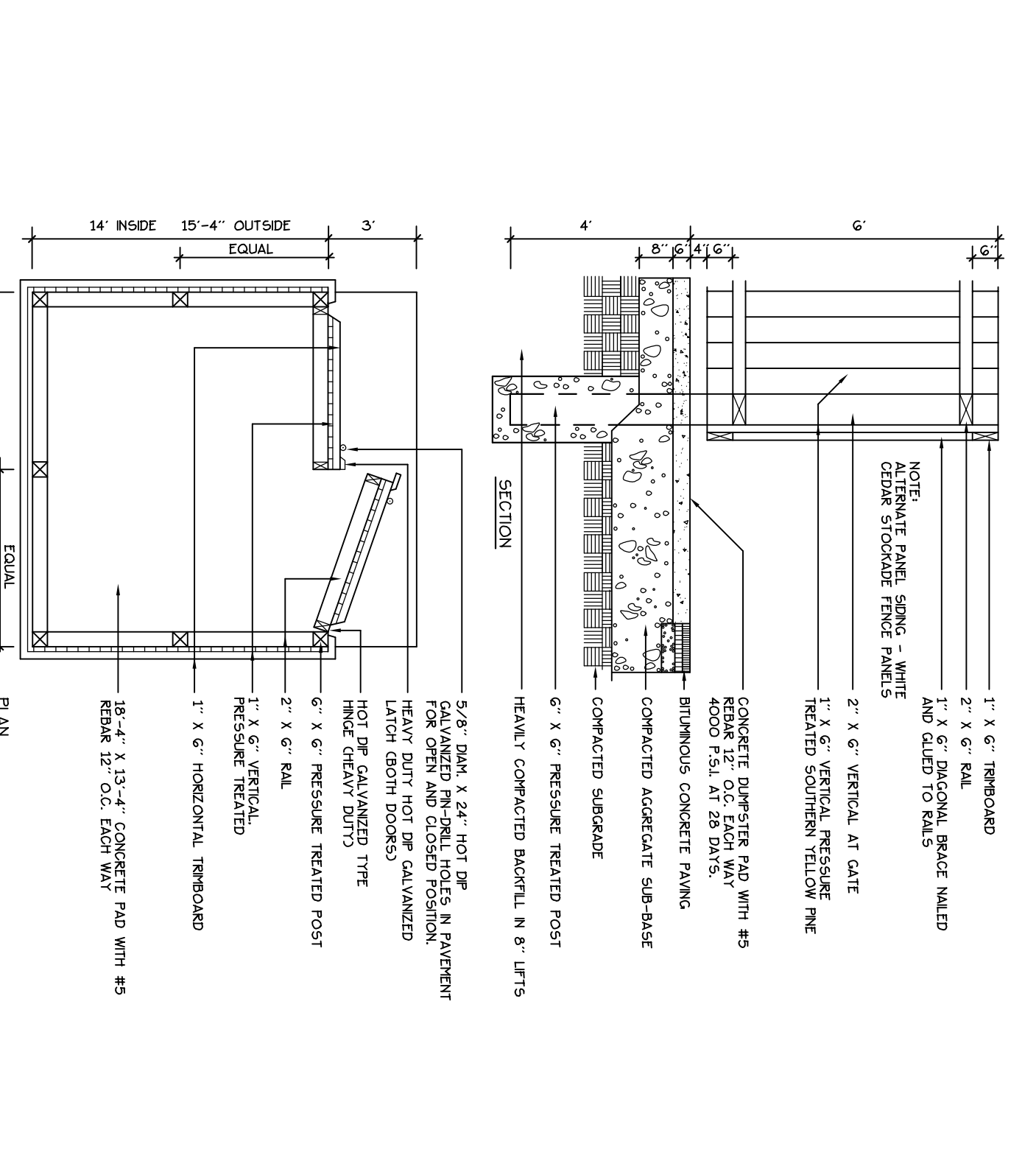
11 LIGHT POLE BASE  
NOT TO SCALE



12 PRECAST CONCRETE MANHOLE  
NOT TO SCALE



13 PRECAST CONCRETE DRAIN INLET  
NOT TO SCALE



14 DUMPSTER ENCLOSURE  
NOT TO SCALE

- NOTES:
1. FLAG ALL LIFTING HOLES, JOINT SECTIONS, AND MATCH 1'-0" - 4'-0" LENGTH TO MEET FIELD CONDITIONS.
  2. MANHOLE CHANNELS REMAINING CHANGE IN ALIGNMENT TO BE BUILT ON SMOOTH RADII, IF RECEIVED. ADDITIONAL NOTES TO BE SHIPPED TO RECEIVE ADDED SITE FLOW.
  3. PRECAST REINFORCED CONCRETE BARREL SECTION MATCH 1'-0" - 4'-0" LENGTH TO MEET FIELD CONDITIONS.
  4. CUT BACK PER TO MANHOLE ID.
- MANHOLE FRAME AND COVER DESIGNED FOR EXISTING PORTLAND CEMENT CONCRETE WITH EMBEDDED HOLES E2455 OR APPROVED EQUAL WITH SOLID COVER.
- BRING TO GRADE WITH PORTLAND CEMENT MAX. 3 COLLETS, AND BRICK GRN. 3 COLLETS, SUITABLE COMPACTED GRANULAR BASE/FILL 1/2" THICK MINIMUM.
- PRECAST REINFORCED CONCRETE MANHOLE TOP SECTION 8" THICK.
- PRECAST MANHOLE STEPS 12" O.C. 5" MINIMUM (TYP)
- 12" MIN.
- REINFORCED JOINT FILLER OR BITUMINOUS MASTIC SEAL (TYP) PER IT 1793.
- PRECAST CONCRETE BARREL SECTIONS) MATCH 1'-0" TO 4'-0" LENGTH TO MEET FIELD CONDITIONS.
- SHAPE AND WEIGHT AS REQUIRED OR USE PRECAST CONCRETE BOTTOM SECTION WITH PRECAST CONCRETE AS REQUIRED. SET TO OFFERINGS SHOWN ON PLANS.
- PRECAST CONCRETE BOTTOM SECTION WITH PRECAST CONCRETE OR REBAR ON ALL BITUMINOUS COATING ON ALL CONCRETE OR REBAR ON ALL CONCRETE OR REBAR ON ALL CONCRETE OR REBAR ON ALL CONCRETE TO RECEIVE BASE UNID CLEVELD TO RECEIVE BASE UNID
- NOTE: STRUCTURES SHALL CONFORM TO THE CITY OF PORTLAND TECHNICAL AND DESIGN STANDARDS AND GUIDELINES, LATEST EDITION.

# LOGAN PLACE

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Date:  
**JANUARY 14, 2004**

Revisions:

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Title:  
**SITE DETAILS**

Scale:

North:

Sheet No.:  
**4**