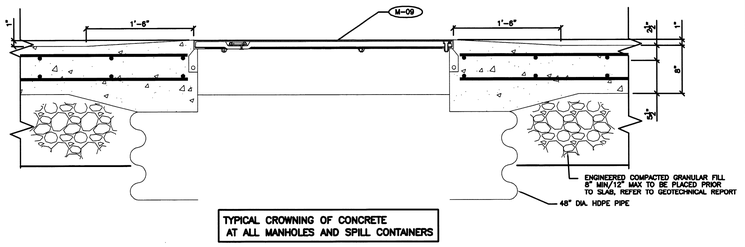
001 TYPICAL CROWNING DETAIL

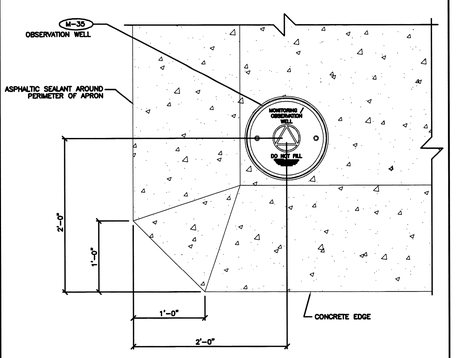
SCALE: 1" = 1'-0"



TYPICAL CROWNING OF CONCRETE AT ALL MANHOLES AND SPILL CONTAINERS

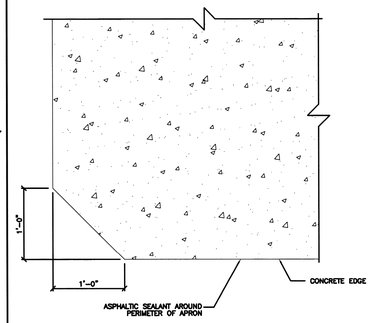
002 TANK TOP CORNER DETAIL

SCALE: 1" = 1'-0"



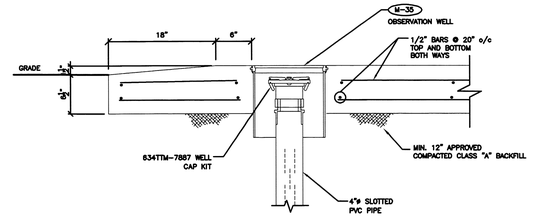
003 DISPENSER APRON CHAMFER DETAIL

SCALE: 1" = 1'-0"



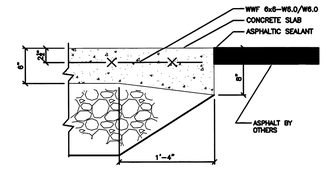
004 OBSERVATION WELL DETAIL

SCALE: 1" = 1'-0"



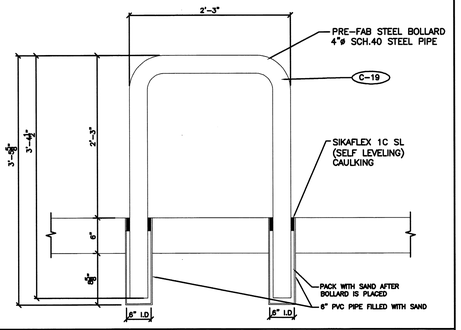
005 DISPENSER APRON AND SAW CUT DETAIL

SCALE: 1" = 1'-0"



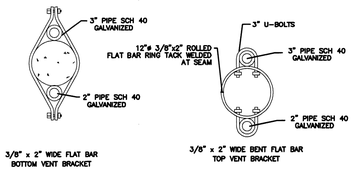
006 TYPICAL BOLLARD

SCALE: N.T.S.



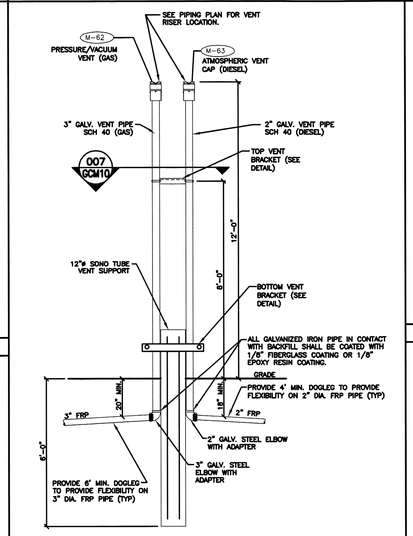
007 VENT CLUSTER SUPPORT BRACKET DETAIL

SCALE: 1 1/2" = 1'-0"



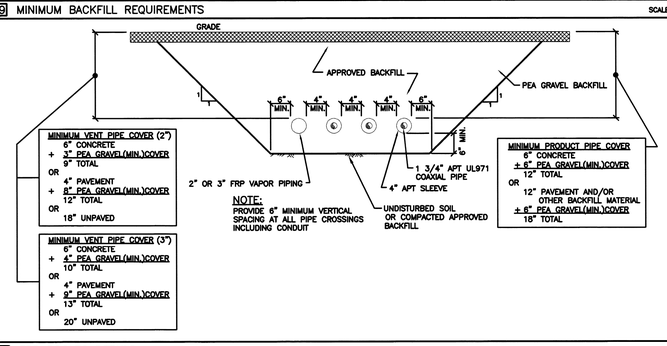
008 VENT CLUSTER ELEVATION

SCALE: N.T.S.



009 MINIMUM BACKFILL REQUIREMENTS

SCALE: N.T.S

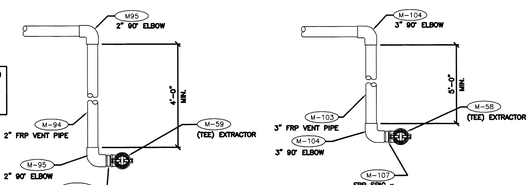


NOTE:
PROVIDE 6" MINIMUM VERTICAL SPACING AT ALL PIPE CROSSINGS INCLUDING CONDUIT

010 FRP DOGLEG DETAILS

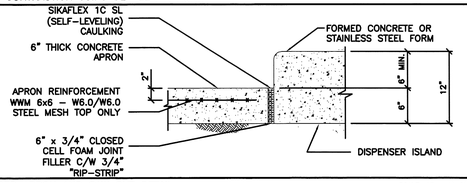
SCALE: 1/2" = 1'-0"

FRP DOGLEG TO BE PROVIDED AT EACH CONNECTION TO A FIXED POINT (TANK, DISPENSER, VENT ETC.)



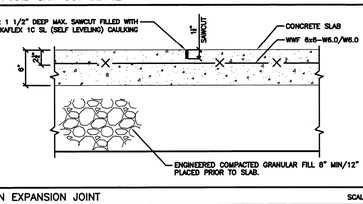
011 TYPICAL CONTRACTION JOINT BETWEEN APRONS

SCALE: 1" = 1'-0"



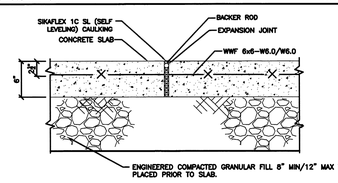
012 DISPENSER APRON AND SAW CUT DETAIL

SCALE: 1" = 1'-0"



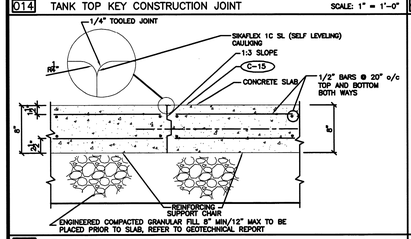
013 DISPENSER APRON EXPANSION JOINT

SCALE: 1" = 1'-0"



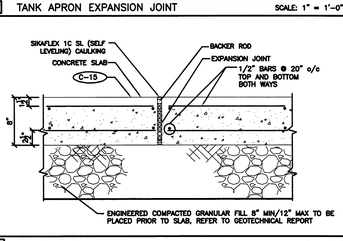
014 TANK TOP KEY CONSTRUCTION JOINT

SCALE: 1" = 1'-0"



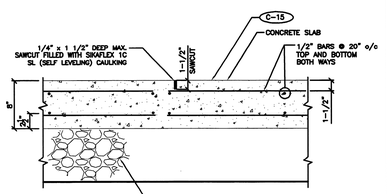
015 TANK APRON EXPANSION JOINT

SCALE: 1" = 1'-0"



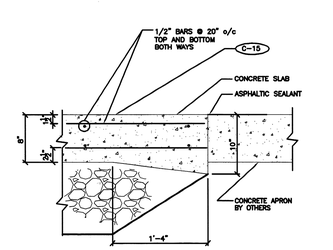
016 TANK APRON SAWCUT DETAIL

SCALE: 1" = 1'-0"



017 TANK APRON EDGE DETAIL

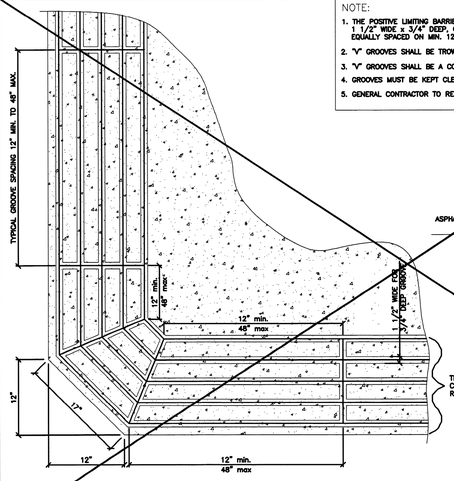
SCALE: 1" = 1'-0"



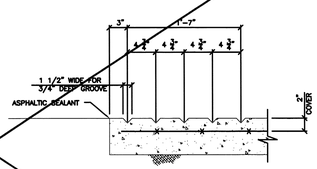
018 POSITIVE LIMITING BARRIER

SCALE: NONE

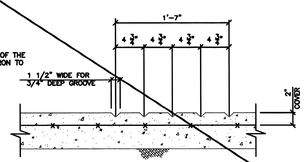
NOTE:
1. THE POSITIVE LIMITING BARRIER TO BE 5 CONTINUOUS "V" GROOVES 1 1/2" WIDE x 3/4" DEEP, ON A 3/4" CENTERS WITH CROSS INTERCONNECTING GROOVES, EQUALLY SPACED ON MIN. 12" MAX. 48" CENTERS.
2. "V" GROOVES SHALL BE TROWELLED IN CONCRETE SLAB.
3. "V" GROOVES SHALL BE A CONSTANT WIDTH AND DEPTH FOR THE ENTIRE APRON.
4. GROOVES MUST BE KEPT CLEAN OF DIRT AND DEBRIS.
5. GENERAL CONTRACTOR TO REFER TO THE FIRE SUPPRESSION PLAN FOR PLB PLACEMENT.



TYPICAL APRON CORNER AND GROOVE SPACING DETAIL



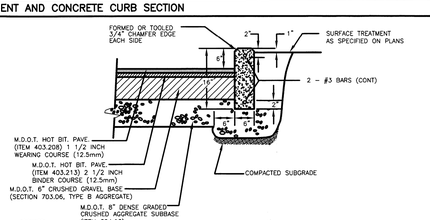
V-GROOVE EDGE OF SLAB SECTION



V-GROOVE INNER SLAB SECTION

019 PAVEMENT AND CONCRETE CURB SECTION

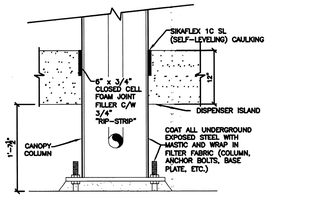
SCALE: NONE



NOTES:
1. ALL PAVEMENT SHALL COMPLY WITH M.D.O.T. SPECIAL PROVISION SECTION 403, HOT MIX ASPHALT
2. DENSE GRADED CRUSHED AGGREGATE SHALL COMPLY WITH M.D.O.T. SPECIAL PROVISION 304, AGGREGATE BASE AND SUBBASE COURSE

020 TYP. CONTRACTION JOINT @ COL.

SCALE: 3/4" = 1'-0"



- ☐ SUPERSEDES ALL PREVIOUS ISSUES
- ☐ APPROVED FOR CONSTRUCTION
- ☐ PRELIMINARY–NOT FOR CONSTRUCTION
- ☐ ISSUED TO: _____

DATE _____

NOTES:

1. CONCRETE SPECIFICATIONS:
   SOIL BEARING CAPACITY REQ'D : AS PER GEOTECHNICAL REPORT
   CONC. STRENGTH : 4000psi (281 kg/cm) @ 28 DAYS
   3% TO 7% AIR, TROWELLED SMOOTH FINISH WITH TWO COATS SEALING/CURING COMPOUND.
   CANOPY FOOTING CONC. STRENGTH - REFER TO DRAWINGS PROVIDED BY CANOPY MANUFACTURER.
   CONCRETE TO BE REINFORCED WITH STEEL MESH
   IF APPLICABLE REBAR YIELD STRENGTH : 60 k.s.i.
2. COORDINATE APRON ELEVATIONS ON THIS DRAWING WITH CIVIL DRAWINGS AND FIELD ELEVATIONS WHEN PROVIDED.
3. DISPENSER SUMPS TO BE SET IN PLACE AND USED AS A FORM TO POUR CONCRETE AROUND.
4. ALL EQUIPMENT INSTALLATIONS MUST COMPLY WITH MANUFACTURER'S SPECIFICATIONS.
5. ALL EQUIPMENT AND CONSTRUCTION ARE NEW.

REV	DATE	BY	REVISION

REVISIONS

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ENGINEERS • PLANNERS • SURVEYORS
www.mhfdesign.com

STATE OF MAINE — FRANK C. MONTEIRO — 7201 — LICENSED PROFESSIONAL ENGINEER — 1/26/16

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IRVING OIL

190 COMMERCE WAY
PORTSMOUTH, NH 03801

PROJECT:

393 COMMERCIAL STREET
PORTLAND, MAINE

SHEET TITLE:

CONCRETE & PIPING DETAILS

PROJECT:	DRAWING NO:	REVISION:
	GCM10	-

COMPANY SUPERVISOR AND CONTRACTOR TO VERIFY ALL MEASUREMENTS ON WORK OR AT SITE. THIS DRAWING IS THE PROPERTY OF IRVING OIL LTD. AND SHALL BE RETURNED ON COMPLETION OF WORK.

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