

- FLEXCELL. -SLIGHTLY CONCAVE - POLYURETHENE WATERPROOFED CONSTRUCTION CONSTRUCTION JOINT JOINT DETAIL -ETHAFOAM ROD (t + 😅) SEALANT VERTICAL WALL JOINT & DRY ENVIRONMENT HORIZONTAL WALL JOINT 7/2" = 1'-0" DETAIL - TYPICAL 12" = 1-0" FULL SIZE DET. - WATER SIDE 1/3 1/3 APPROX. SPACING 5 2 MIN - VANDEX SEALING COAT AS SPEC'D. ~1/2" x 34" VANDEX" DRY SIDE -SEALING STRIP (OR WATERSIDE) as spec'd. - PVIC WATER STOP - SEALANT SLAB SEE DET. - FLEXCELL WATERPROOFED

CONSTRUCTION JOINT

BASE OF WALL JOINT

12" - 1-0"

1. FOR ERTICAL JOINTS & HORIZONTAL JOINTS

SLABS ON GRADE

WITHOUT WATER

POLYURETHANE.

NO SEALANT ON U/S OF

2. FOR EXTERIOR BUILDING EXPANSION JOINTS

RETAINING CONSTRUCTION W

TYPICAL WATERPROOFED

EXPANSION JOINT DETAIL

3. FOR TRAFFIC AREAS 18

(GALLERY & WALLEWAYS)

USE TRAFFIC GRADE

PRECAST PRESTRESSED CONCRETE All fabrication, handling and erection shall conform to CSA Al35, CSA A23.1 and as specified in Section 2B. Concrete: Compressive strength at destress - 3500 psi unless noted otherwise. Compressive strength in 28 dars - 5000 psi. Cement - Normal Portland cement. Prestressing Strand: Uncoated seven wire stress relieved strand, fy = 250,000 or 270,000 psi. Cover to be 2" min. Flexural tension in concrete at working loads will not be permitted. Metal inserts and splice plates and bars shall be hot dipped galvanized (2 oz. per sq. ft.). Touch-up for all scratches, welds and areas adjacent to welds shall be an approved zinc-rich Field cut holes shall be approved by the Engineer before any cutting is performed Unsightly spalls or chips must be repaired.

AS - BUILT DATE FB. NO. PAGE

These note s are stated here to briefly describe construction requirements and to specify some requirements not covered in the Specifications. They do not replace the Specifications, which must be consulted constantly to control all construction.

SOILS DAT A

For soils data, see reports prepared by Ripley, Klohn & Leonoff International Ltd. Report #1. Job No. W-580 Report on Subsoil Investigation, March 8/71; Report #2. Job No. W-619 Report on Installation of Test Caissons, March 24/71

(N.B. Test caissons referred to here are 2-30" dia. holes drilled to limestone) Report #3. Job No. W-699 Report on Solution to Problems in Connection with Control of

Ground Water & Excavations, Sept. 28/71. Average soils profile (except from Report #3,

Depth Material 0'-0" to 1'-0" Top soil Mottled grey-brown clay 1'-0" to 25'-0" Grey clay 25'-0" to 50'-0" Interlayered till-like, till, sands and gravel 50'-0" to 70'-0" Broken limestone with 70'-0" to 73'-0" sand and gravel Sound limestene Below 731-011

PRECAST CONCRETE PILES

General: All fabrication, handling and installation shall conform to CSA A135, CSA A23.1 and as specified in Section 2B.

Concrete: Compressive strength at destress - 3500 psi Compressive strength at driving - 5000 psi

Compressive strength in 28 days - 5000 psi Cement - Sulphate resisting cement (Type 5) Prestressing Strand:

Uncoated seven wire stress relieved strand.

Initial Stressing:

$0.7 A_{\rm gfg}$ Tolerances:

Pile alignment shall not vary more than 1/4" in 10'-0" (max. 1") Pile cross-section shall not vary suddenly by more than 1/4" or gradually more than 1/2"; Ends of piles shall be cast perfectly square.

Piles with bevelled ends greater than I degree from the pile axis will be cause for rejection.

Piles shall be properly stored to prevent damage or breakage. Piles shall be lifted at lifting points only.

Driving shall be performed and driving records kept as specified. All piles shall be driven to refusal as specified and as determined by test loadings. Assumed Pile Refusal - Elevation 705'0".

CAST-IN-PLACE CONCRETE

Mixing, handling, placing, formwork, etc., shall conform to CSA A23.1 and as specified in Section 3A. General:

For special requirements for concrete for water retaining structures, see the specifications.

Compressive Strength:

4000 psi in 28 days unless noted otherwise.

Cement: Sulphate resisting cement for all below grade construction in contact with sewage and/or

Normal Portland cement for all other concrete construction.

Do not use different cement mixtures in the same element, for example, wall, beam,

See Specifications.

Air-Entrainment: See Specifications for requirements re water retaining structures and re restrictions for good slab finishing.

Reinforcing: Deformed billet steel bars (fy = 60,000 psi) conforming to CSA G30.10 except as noted

Stirrups, ties and special dowels (permitting tight bends & restraightening) billet steel

bars (fy = 40,000 psi) conforming to CSA G30. 1.

Detailing & placing drawings shall conform to AC1 315 standard practice for detailing reinforced concrete structures.

Stagger splices in adjacent bars 5'-0". Minimum cover.

Member Dry Air Footings & Fdtn. slabs 2" * Floor & Roof Slabs

* With Engineer's approval, $l^{\frac{1}{2}}$ for #5 bars or smaller.

Provide 2 additional #5 bars each side unless noted otherwise on the drawings. Extend

2'-0" beyond edge of opening.

Finishes: Vertical Surfaces

Normal form finish as specified unless noted otherwise on plans. Horizontal Surfaces

Steel trowelled for interior areas (spin trowelled for non-slip surfaces).

Steel float for tank floor slabs. Wood float for exterior slabs.

Edges
Chamfer 1" all exposed concrete corners.

Slabs
All floors (except tanks) shall receive a non-metallic hardener unless scheduled

otherwise.

Dimensional Tolerances:

See Specifications. Void Form:

Waxmat by "Shearmat". Construction Joints:

Joints required but not shown must be approved by the Engineer.

Check all other dwgs., mechanical, electrical, etc., for inserts that must be cast into concrete.

AMCROFILMED MAR 3 1 1980

