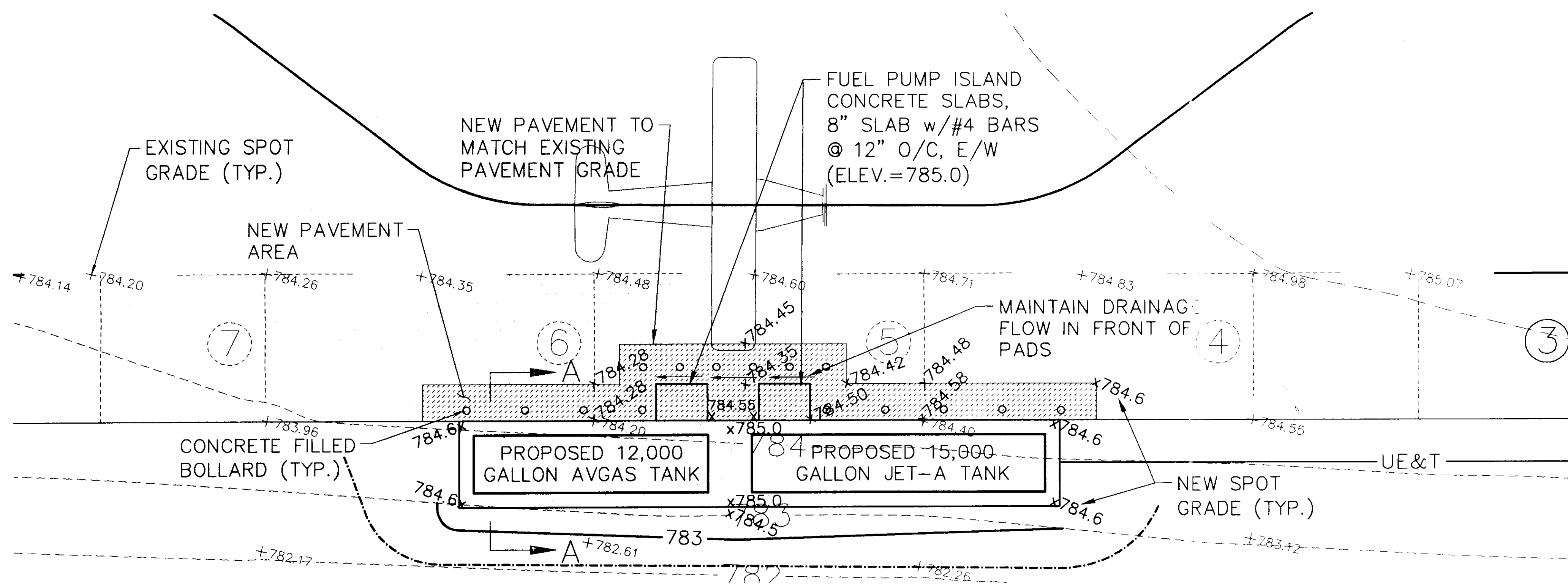
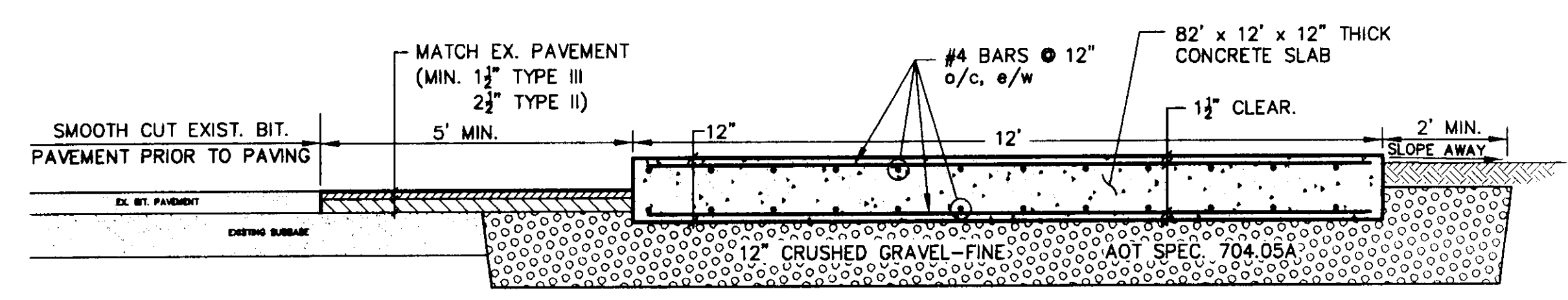


BUILDING RESTRICTION ZONE
1"=30'

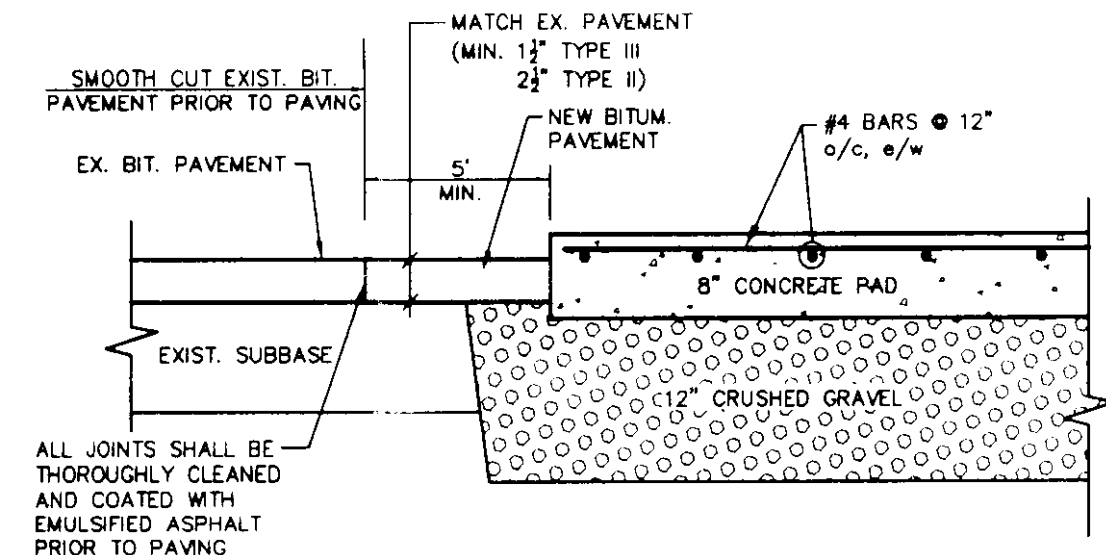


FUEL TANK/PUMP PLAN
1"=10'

NOTE:
TANKS AND CONCRETE PAD
TO PITCH AT 1% SLOPE
TOWARD THE PUMP PORTS.



1
C2
FUEL TANK CONCRETE PAD
NTS



2
C2
PUMP ISLAND PAD
NTS

CONCRETE NOTES:

GENERAL NOTES

- Shop drawings and other items shall be submitted to the Owner for review prior to fabrication. All shop drawings shall be reviewed by the General Contractor before submittal. The Owner's review is to be for conformance with the design concept and general compliance with the relevant Contract Documents. The Owner's review does not relieve the Contractor of the sole responsibility to review, check and coordinate the shop drawings prior to submission. The Contractor remains solely responsible for errors and omissions associated with the preparation of shop drawings as they pertain to member sizes, details, dimensions, etc.
- The Engineer shall not be responsible for the methods, techniques and sequences of the procedures to perform the work. The supervision of the work is the sole responsibility of the Contractor.
- Contractors shall visit the site prior to bid to ascertain conditions which may adversely affect the work or cost thereof.

STRUCTURAL FILL

- Fill
 - Crushed Gravel (Fine Graded) used as fill under slabs will be well-graded gravel with a grain size distribution as follows:

Particle or Sieve Size	Percent Finer by Weight
2"	100
1 1/2"	90 - 100
#4	30 - 60
#100	0 - 12
#200	0 - 6

- Compaction
 - Structural fill shall be placed and compacted in 8" layers (maximum).
 - Structural fill and the top 12" of subgrade shall be compacted to at least the following maximum dry density:
 - Under Slabs on Grade - 95% ASTM D 698

REINFORCING STEEL

- All reinforcing steel shall be ASTM A615-Grade 60 and shall be detailed, fabricated and installed in accordance with the latest A.C.I. specifications.
- All horizontal rods are continuous. Lap all splices 30 diameters unless otherwise noted. Provide corner bars and dowel into existing walls.
- Provide a clear cover from reinforcing steel to adjacent concrete surfaces as follows:
 - Concrete cast against earth: 3"
 - Formed concrete exposed to earth or weather: #5 and smaller - 1 1/2"

CAST-IN-PLACE CONCRETE

- All materials and installation shall be in accordance with the VAOT Standard Specifications, Section 501.
- Concrete mixes shall be designed per ACI 301 using Portland Cement conforming to ASTM C-150 or C-595, aggregate conforming to ASTM C-33, and admixtures conforming to ASTM C-494, C-1017, C-618, C-989 and C-260. Concrete shall be ready-mixed in accordance with ASTM C-94.
- Concrete shall conform to the following compressive strength and slump requirements per AOT Standard Specification Table 501.03A:

Concrete Slabs	M.n. f'c (28 days) Class A (4,000 psi)	Slump* 2" to 4"

* At Contractor's option, an approved admixture may be used to produce flowable concrete. Maximum slump shall not exceed 7 inches. If water reducing admixture is required for slabs, mid range admixture is recommended.
- All concrete work shall conform to the requirements of ACI 301, "Specifications for Structural Concrete Buildings". Hot weather concreting shall be in accordance with ACI 305. Cold weather concreting shall be in accordance with ACI 306.
- All reinforcing steel shall be set and tied in place prior to pouring of concrete, except that vertical dowels for masonry wall reinforcing may be "floated" in place. Do not field bend bars partially embedded in hardened concrete unless specifically indicated or approved by the Engineer.
- All edges of permanently exposed concrete surfaces shall be chamfered 3/4" unless otherwise noted.
- Slabs on Grade
 - Unless otherwise approved, all reinforcing shall be blocked into position indicated with precast concrete blocks having a compressive strength equal to that of the slab. Blocks should be at least 4" square at the base and thick enough to support the reinforcing at the proper elevation. Spacing of the blocks shall be close enough that the reinforcing cannot be forced out of position by construction foot traffic.
 - Slabs to be permanently exposed to weather shall be air entrained to 5% (±1%) with an admixture that conforms to ASTM C-260.
- Protect newly placed concrete against low and high temperature effects and against rapid loss of moisture. Moist cure all concrete for at least seven (7) days at a temperature of at least 50 degrees Fahrenheit by approved curing methods. Forms may be stripped when the concrete has attained sufficient strength to carry its own weight and any applied loads. All slabs shall be kept continuously moist for a minimum of seven (7) days with water or an approved soaking agent and in full compliance with ACI 308 and Section 501.17 of the AOT Standard Specifications.

TESTING SERVICES AND REQUIREMENTS

- Owner will appoint, employ, and pay for specified services of an independent firm to perform inspection and testing.
- The independent firm will perform inspections, test, and other services as required by owner at owner's discretion.
- Re-testing required because of non-conformance to specified requirements will be charged to the Contractor.

SITE ENGINEER:

CIVIL ENGINEERING ASSOCIATES, INC.
P.O. BOX 485 SHELburne, VT 05482
802-985-2323 FAX: 802-985-2271 web: www.cca-vt.com

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DRAWN
PJM
CHECKED
BCE
APPROVED
BCE

OWNER:

STATE OF VERMONT
DEPARTMENT OF BUILDINGS AND GENERAL SERVICES
MONTPELIER, VERMONT

PROJECT:
RUTLAND AIRPORT
TANK FARM
RUTLAND, VERMONT

DATE	CHECKED	REVISION

PROFILE, TANK PLAN and DETAILS

DATE
MAY, 2004
SCALE
AS SHOWN
PROJ. NO.
04128.03
DRAWING NUMBER
C2