PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)
SUBJECT: TRAVEL–LIFT BASIN
ITEM: COFFERDAM PLAN

GAGNON ENGINEERING INC.
Structural Consultants
198 MAIN STREET
GORHAM, MAINE 04038

DATE: 12/20/17
BY: RG
SHEET: 1 OF 9999
PROJECT NO. 701PY

Inspections Division
Date: 02/26/18

# PLAN

TB0

SCALE: 3/32=1'–0"

TRAVEL–LIFT BASIN COFFERDAM

NOTE: REMOVE WALES & STRUTS ONLY AFTER BASE SLAB AND ALL PERMANENT STRUCTURE ARE INSTALLED.

10'** NOTE:
Fill Closure Cell w/Dredge Spoils to El. 8.0', Top with Compact Gravel (to bott/slab)

PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)
SUBJECT: TRAVEL–LIFT BASIN
ITEM: BASIN PLAN (Fnished)

GAGNON ENGINEERING INC.
Structural Consultants
198 MAIN STREET
GORHAM, MAINE 04038

DATE: 12/20/17
BY: RG
SHEET: 2 OF 9999
PROJECT NO. 701PY

Inspections Division
Date: 02/26/18

# PLAN

TB1
–

SCALE: 1/16=1'–0"

TRAVEL–LIFT BASIN
Basin, Travelway, Support Structure, Dredging

PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)
SUBJECT: TRAVEL–LIFT BASIN
ITEM: TYPICAL WALL SECTION

GAGNON ENGINEERING INC.
Structural Consultants
198 MAIN STREET
GORHAM, MAINE 04038

DATE: 12/20/17
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SHEET: 3 OF 9999
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Inspections Division
Date: 02/26/18

PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)
SUBJECT: TRAVEL–LIFT BASIN
ITEM: COFFER FRAME DETAILS, CLOSURE DETAILS

GAGNON ENGINEERING INC.
Structural Consultants
198 MAIN STREET
GORHAM, MAINE 04038

DATE: 12/20/17
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SHEET: 4 OF 9999
PROJECT NO. 701PY

Inspections Division
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PLAN FC0
SCALE: 1/4"=1'–0"
Cofferdam Frame (Corner Dertails)

WALES; CORNER DETAILS:
Cut interfering half Flanges (34")
Lap Wale A (web) over Wale B (web). Install Center Bolt

PLAN FS0
SCALE: 1/4"=1'–0"
Cofferdam Frame Details @ Struts

PLAN CC0
SCALE: 1/4"=1'–0"
(West side is Shown, East side is similar)
COFFERDAM CLOSURE CELL DETAILS

PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)
SUBJECT: TRAVEL–LIFT BASIN
ITEM: TRAVELWAY, CURB, PILES, ANCHOR DETAILS

GAGNON ENGINEERING INC.
Structural Consultants
198 MAIN STREET
GORHAM, MAINE 04038

DATE: 12/20/17
BY: RG
SHEET: 5 OF 9999
PROJECT NO. 701PY

Inspections Division
Date: 02/26/18

# DETAIL TWO

SCALE: 3/16=1'–0"

TYPICAL @ Piles
(Curb Not Shown)

# DETAIL TW1

SCALE: 3/16=1'–0"

TYPICAL Betw. Piles

** ANCHOR BOLTS:
1¼"ø X 48" Grade 75
Top: 18" o/c
Bott: 2 @ ea face
as shown

CURB
(Looking Down, upper
Rail not shown)

SHEET ANCHORS
(Looking Down, lower)

PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)
SUBJECT: TRAVEL–LIFT BASIN
ITEM: ANCHOR WALL, NOTES, COMPLIANCE, MATERIALS

GAGNON ENGINEERING INC.
Structural Consultants
198 MAIN STREET
GORHAM, MAINE 04038

DATE: 12/20/17
BY: RG
SHEET: 6 OF 9999
PROJECT NO. 701PY

Inspections Division
Date: 02/26/18

DETAIL AWO –
SCALE: 1/2=1'–0"
ANCHOR WALL DETAILS

NOTES:

Work These Plans with Project Civil Plans. Refer to Civil Plans for Layout, Dimensions, Details...not shown herein. Refer to S.W.Cole Report for Soils Information

Report any discrepancies within these Plans, between these Plans and Civil Plans, or between these Plans and existing conditions. Do not proceed with dependent work until discrepancies have been resolved.

Do not substitute Materials or modify Details without prior approval from the Engineer. Consult the Engineer with Detail Questions and for Details not addressed herein. Submit Submit Value–Engineering Proposals for Engineer Consideration.

Pre–excavate the general area (boundaries shown) to El. 8.0', El. 4.5' at Anchor Walls Backfill on Basin–side of Anchor Walls must be Compact Gravel (see Spec.).

Default Specification: Maine DOT Standard Specifications for Highways & Bridges (latest)

Engineer Inspections: As required by IBC Building Code, Chapter 17. Engineer shall provide Contractor with a list of specific milestone & recurring Engineer Inspections. Contractor shall provide Engineer at least 48 hours advanced notice of inspection readiness. Contractor shall not 'cover' inspected work until Engineer so authorizes.

COMPLIANCE:

Submit Manufacturer (or Fabricator) Certificates or other acceptable evidence of Material Compliance with Specifications. Submit compliance Documentation for Sheetpiling, Steel Plates & Shapes, Pipe Piles (& Struts), Pile–Driver & Driving Criteria, Gravel, Concrete & Reinforcing Bars, Tie–Rods & Hardware, Anchor–Bolts & Hardware, Galvanizing & Epoxy–Coatings, Concrete Sampling & Testing, Reinforcing Shop Drawings....

MATERIALS:

Steel Plates & Shapes: ASTM A572 Grade 50, new or good–condition used steel. Exposed (permanent) Steel & Hardware Hot–Dip Galvanized.
Temporary Steel may be ASTM A36, uncoated.

Welding: E70xx Electrodes, AWS D1.1 Procedures, Certified Welders.

Sheetpiling: ASTM A572 Grade 50, new or good–condition used sheets. Skyline (brand) SKZ–23 or pre–approved equal. Interlock all corners. Epoxy–coat top 20 ft of exterior face (only) Install zinc blocks at locations shown & as detailed.

Bearing (Pipe) Piles: 14"ø x ½" or 16"ø x ⅜" spiral–weld pipe (ASTM A252, grade1 min), Uncoated. Welded Conical Tips. F.S. (Resistance/Working Load > 1.50

Gravel MeDOT Type C Base Aggregate (MeDOT Spec.103.06, Type C); Compact in 6" lifts to 95% ASTM D1557.

Concrete (Underwater): Me DOT Standard Specification for underwater (tremie–placed Structural Concrete, 4500 psi min.

Curb Rail, Cleats, Anchor Bolts, Nuts, Washers, Plate Washers...: ASTM A572 Grade 50 (min) Hot–dip galvanized (ASTM A153).

Tie–Rods: ASTM, A722 Grade 150, Hot–dip Galvanized incl. Nuts, Plate Washers, Hardware. ASTM A153. Pre–Tension to 75 kips.

Sheet–piling for Anchor Wall: New or Used, uncoated sheet–piling (Sx>20.0 in3).

Concrete: 4000 psi 28–day Cmpressive Strength, 4" max Slump, 5%–7% Entrained Air. Sample & Test Concrete according to respective ASTM Standards for Slump, Air, and Strength. Sampling & Testing shall be by an independent accredited agency. Make 4 Test Cylinders from the first Truck & 1/3rd (randon trucks, selected by the Engineer) Trucks. Break one cylinder at 7 days, 14 days, and 28 days respectively
Report Results of Sampling & Testing to the Engineer.

Reinforcing Bars: ASTM A615 Grade 60 Deformed Bars. Fabrication shall comply with ACI 315.