

72-A-3

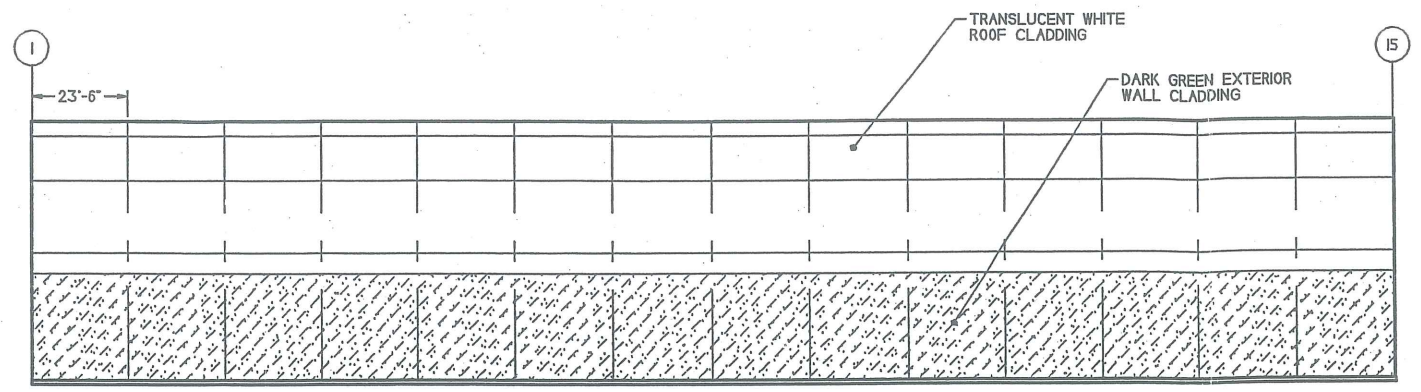
2005-0002

601 Danforth St.

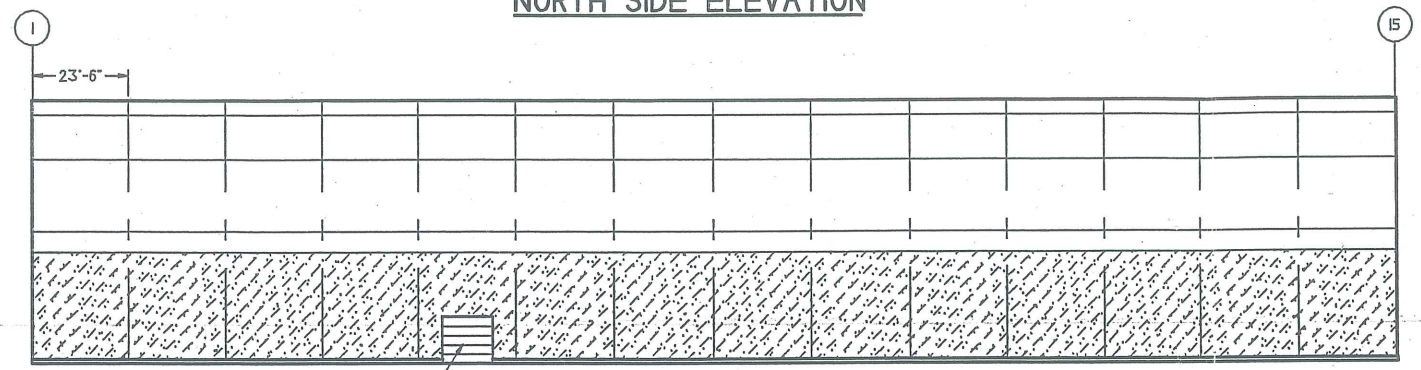
Merrill Marine Terminal

Merrill Industries

Att. 30.1

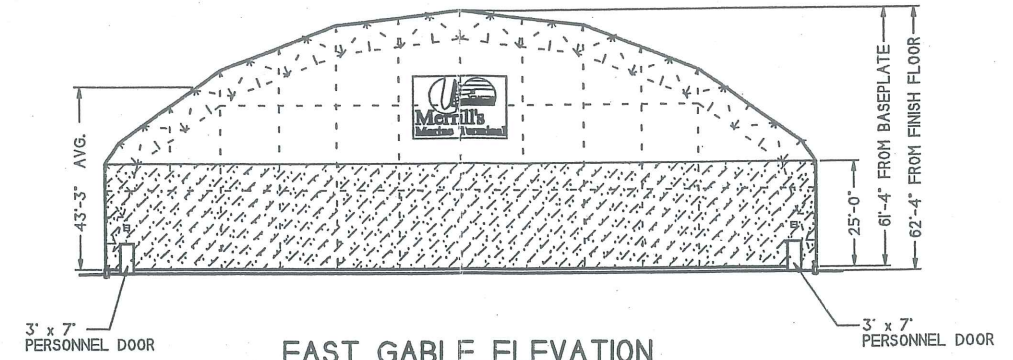


NORTH SIDE ELEVATION

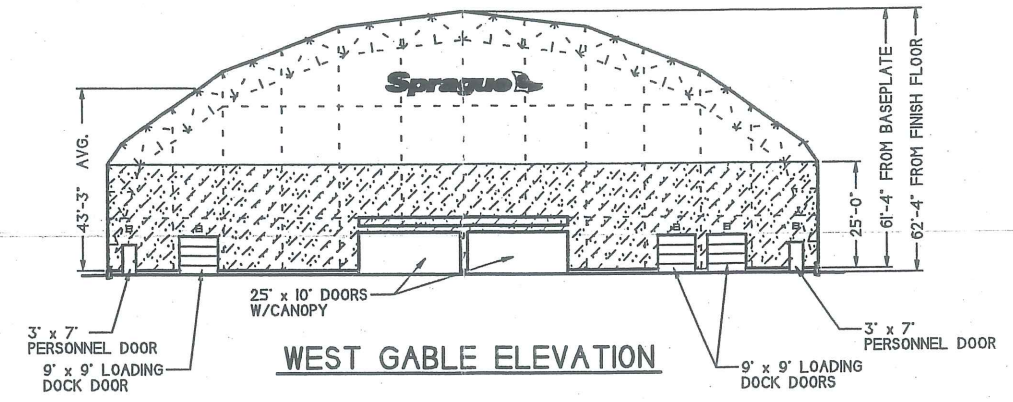


SOUTH SIDE ELEVATION

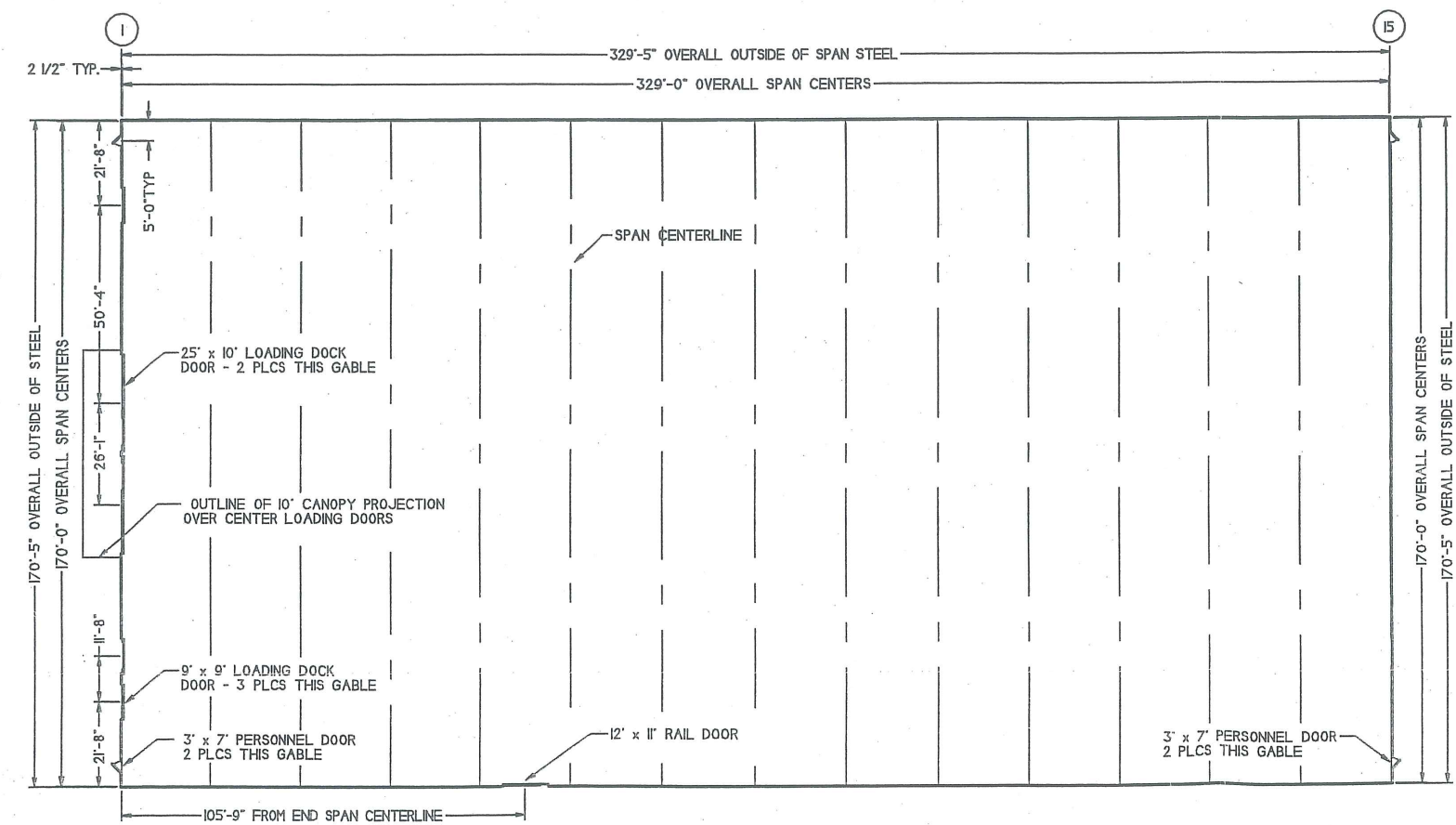
Sprague



EAST GABLE ELEVATION



WEST GABLE ELEVATION



PLAN VIEW

EAST GABLE

- 1.) COVERING MATERIAL IS A PVC IMPREGNATED POLYESTER WEAVE FABRIC SELF EXTINGUISHING TO FEDERAL TEST STANDARD 191 METHOD 5903 AND COMPLIES WITH NFPA STANDARD 701, UBC 55-1 AND CALIFORNIA STATE FIRE MARSHALL'S OFFICE.
- 2.) STRUCTURAL FRAMEWORK IS POST PRODUCTION HOT DIP GALVANIZED TUBULAR STEEL TRUSS FRAMES INTERCONNECTED WITH GALVANIZED TUBULAR STEEL PURLINS AND FRAMES. STEEL PLATE AND SHAPES ARE A36. STEEL TUBING IS A500.
- 3.) STRUCTURAL LOADS: IBC 2003
WIND LOAD: 100 mph 3 SEC GUST EXPOSURE C $I_w=0.87$
ROOF LIVE LOAD: 30 psf GROUND SNOW LOAD: 50 psf. $I_s=0.80$

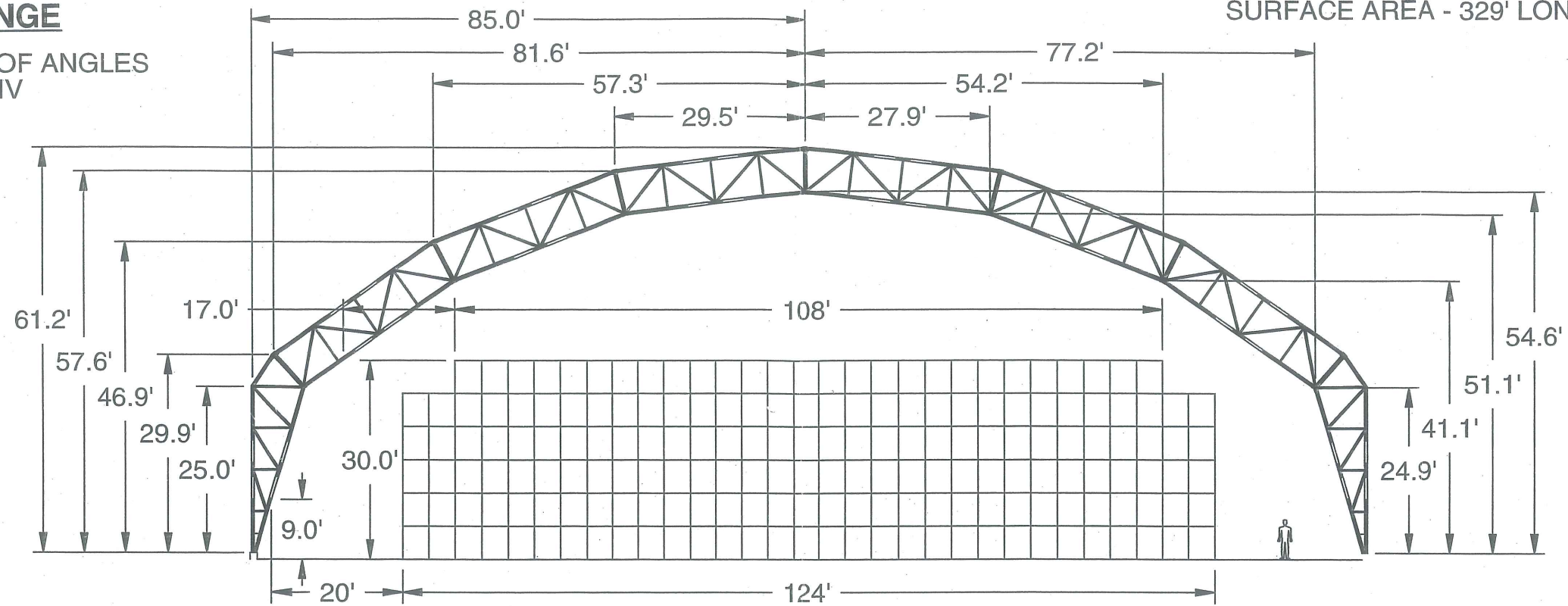
REV	DESCRIPTION	DRAWN	APP.	DATE
1	As Shown			
TRUBB BUILDING SYSTEMS		MERRILL/SPRAGUE RUBB VII 170' SPAN BVL w/25' LEG PLAN VIEW & ELEVATIONS		
DCN	DCN I-27-05	SCALE	1 : 250	
APP.		DATE	0504	
DATE		DRAWN BY	MERRILL RUBB VII	
RUBB INC. SAFFORD HALL 04073 TEL: 207-324-2677 FAX: 207-324-2347		39764		

AH.30.2

AVC RANGE

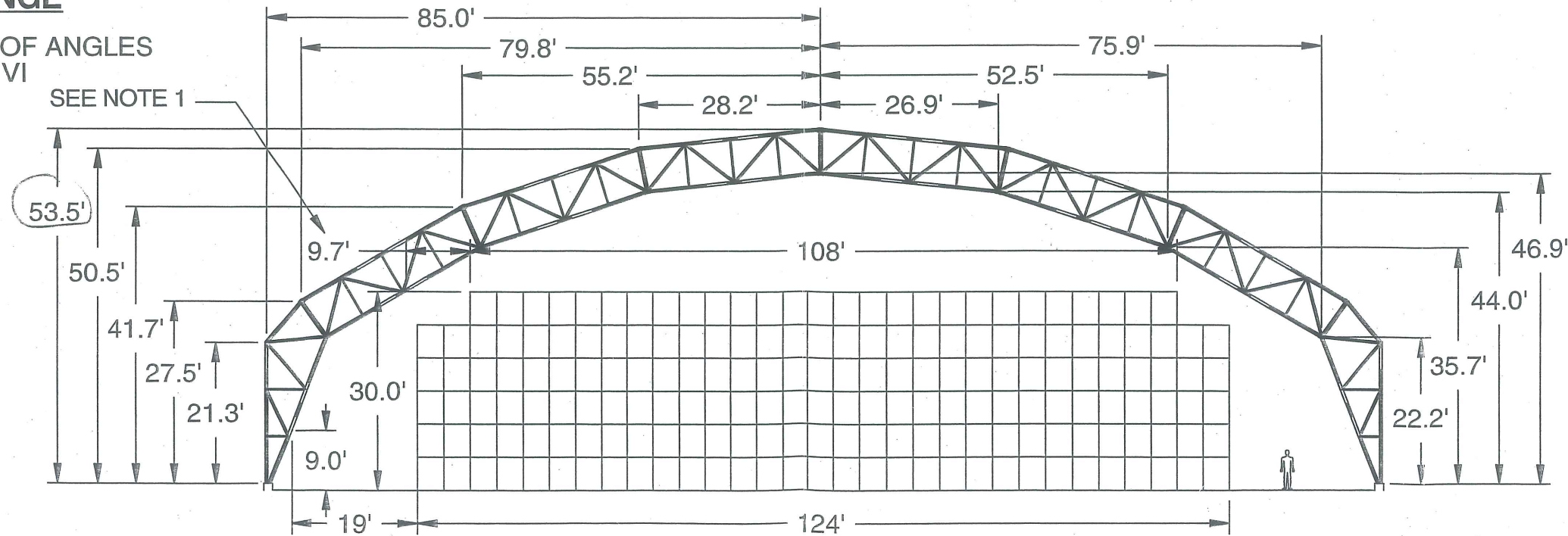
SAME ROOF ANGLES AS RUBB IV

AVC WITH 25' WALL GIVES SPACE FOR 182 - 4' DIA x 5' HIGH ROLLS
SPAN PER. = 240 LF - GABLE = 8,504 SF
SURFACE AREA - 329' LONG = 96,088 SF



BVE RANGE

SAME ROOF ANGLES AS RUBB VI

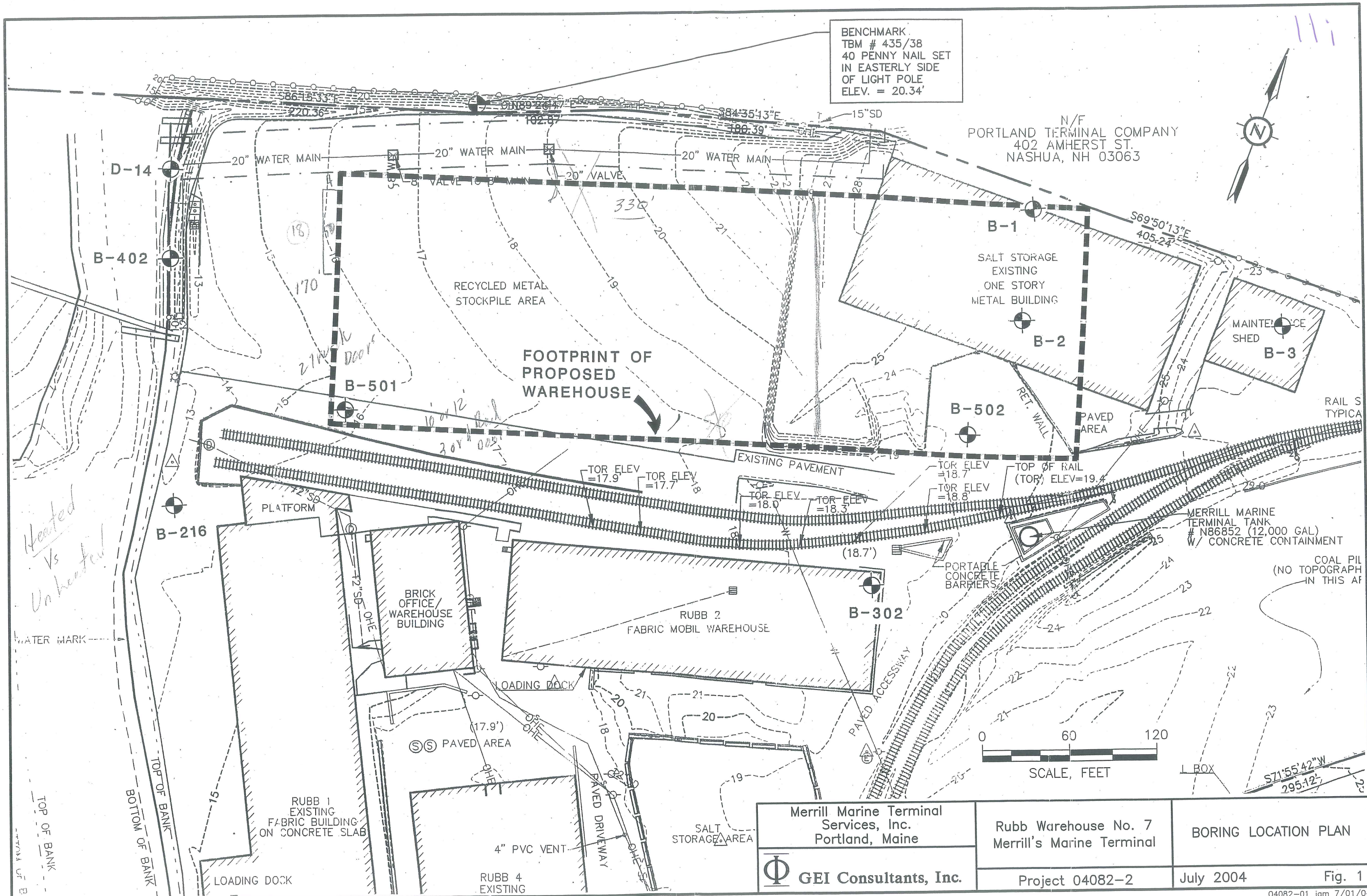


NOTE 1:

INCREASING WALL OF BVE TO 25' BRINGS SURFACE AREA TO 94,337 SF OR 2% LESS THAN AVC WITH 25' WALL. THIS ALSO INCREASE 9.7' CLEARANCE TO 16.1'

BVE WITH 21' WALL GIVES SPACE FOR 182 - 4' DIA x 5' HIGH ROLLS
SPAN PER. = 230 LF - GABLE = 7,428 SF
SURFACE AREA - 329' LONG = 90,641 SF


TITLE		We Cover The World	
170' AVC AND BVE / 25' LEG SPAN PROFILE COMPARISON			
GA	SP	SCALE 1 : 350	DATE 1/28/05
		DRAWN DCN	DRAWING NO. 81974

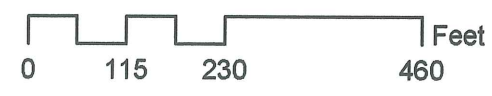


BENCHMARK
 TBM # 435/38
 40 PENNY NAIL SET
 IN EASTERLY SIDE
 OF LIGHT POLE
 ELEV. = 20.34'

N/F
 PORTLAND TERMINAL COMPANY
 402 AMHERST ST.
 NASHUA, NH 03063



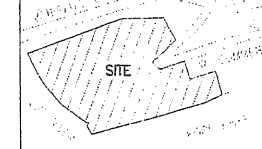
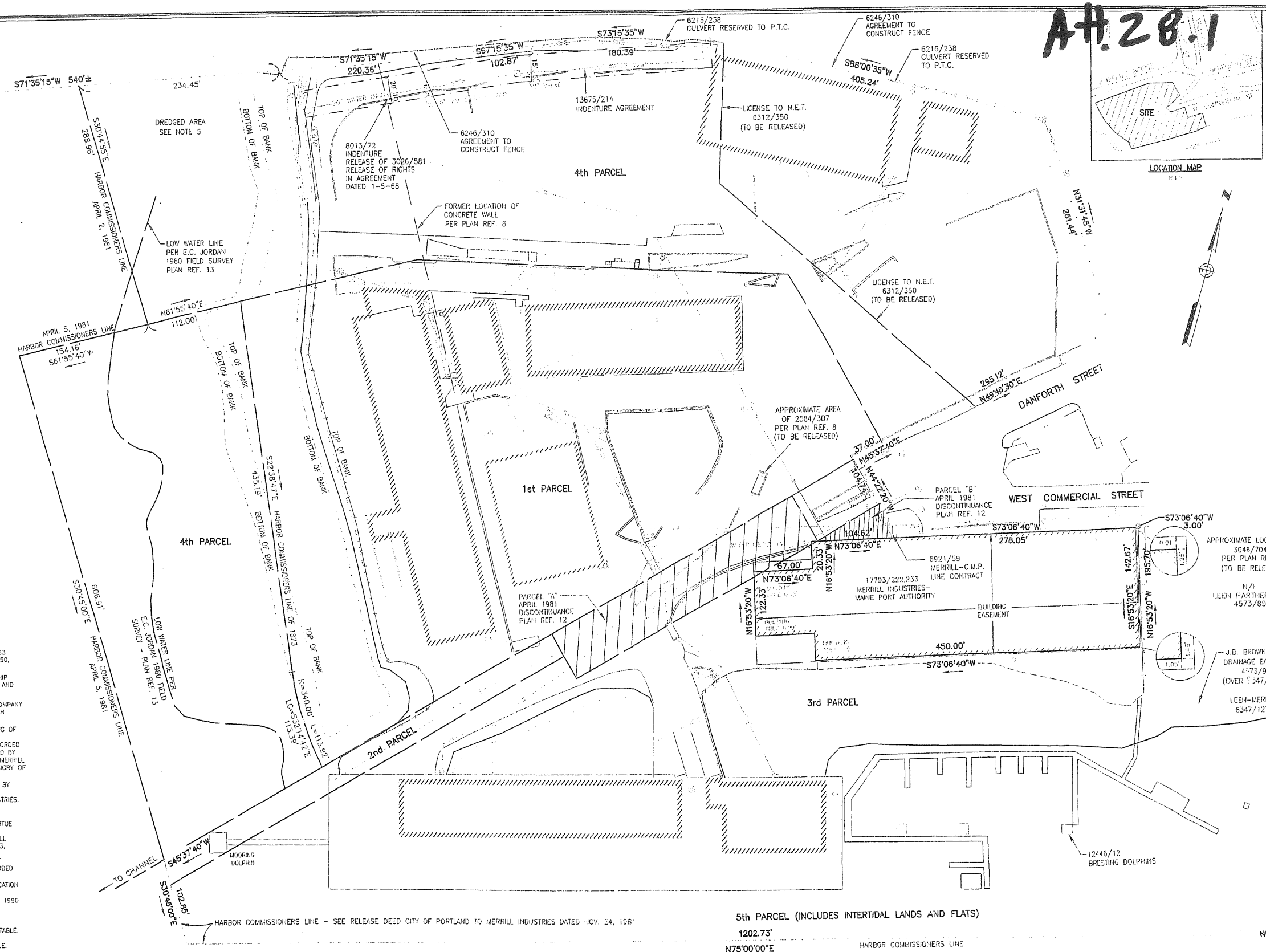
Merrill Marine Terminal Services, Inc. Portland, Maine	Rubb Warehouse No. 7 Merrill's Marine Terminal	BORING LOCATION PLAN	
 GEI Consultants, Inc.	Project 04082-2	July 2004	Fig. 1



Merrill Marine Terminal Proposed Warehouse

Map prepared for the City of Portland Planning Board by the Portland Planning Division using data from the Portland GIS Work Group January 2005

Att. 28.1



COMPILED DESCRIPTION FOR MERRILL INDUSTRIES

A CERTAIN PARCEL OF LAND SITUATED ON THE SOUTHERLY SIDE OF WEST COMMERCIAL STREET AND THE NORTHERLY SIDE OF DANFORTH STREET, IN THE CITY OF PORTLAND, COUNTY OF CUMBERLAND, STATE OF MAINE BEING BOUND AND DESCRIBED AS FOLLOWS:

BEGINNING ON THE SOUTHERLY SIDELINE OF WEST COMMERCIAL STREET AT THE WESTERLY CORNER OF LAND NOW OR FORMERLY OF LEEN PARTNERSHIP, REFERENCE BOOK 4573 PAGE 89;

THENCE S 73° 06' 40" W ALONG SAID SIDELINE 281.05 FEET TO THE WESTERLY TERMINUS OF WEST COMMERCIAL STREET;

THENCE N 44° 22' 20" W CROSSING SAID COMMERCIAL STREET AND DANFORTH STREET 104.74 FEET TO THE NORTHWESTERLY CORNER OF DANFORTH STREET;

THENCE N 45° 37' 40" E ALONG SAID SIDELINE 37.00 FEET;

THENCE N 49° 46' 30" E ALONG SAID SIDELINE 295.12 FEET TO LAND NOW OR FORMERLY OF THE PORTLAND TERMINAL COMPANY;

THENCE BY SAID LAND THE FOLLOWING COURSES AND DISTANCES:

N 31° 31' 45" W 261.14 FEET;
 S 88° 00' 35" W 405.24 FEET;
 S 73° 15' 35" W 180.39 FEET;
 S 67° 15' 35" W 102.87 FEET;
 S 71° 35' 15" W 220.36 FEET;

THENCE CONTINUING S 71° 35' 15" W 540 FEET, MORE OR LESS, TO THE LOW WATER LINE OF THE FORE RIVER IN 1854;

THENCE CONTINUING S 71° 35' 15" W TO THE CHANNEL OF THE FORE RIVER IN 1854;

THENCE SOUTHERLY ALONG SAID CHANNEL OF THE FORE RIVER TO THE WESTERLY PROLONGATION OF THE NORTHERLY SIDELINE OF DANFORTH STREET AS DISCONTINUED BY ACTION OF THE CITY COUNCIL OF THE CITY OF PORTLAND DATED MAY 18, 1980;

THENCE N 45° 37' 40" E ALONG SAID PROLONGATION OF SAID NORTHERLY SIDELINE TO THE REVISED HARBOR COMMISSIONERS LINE AS ESTABLISHED BY THE BOARD OF HARBOR COMMISSIONERS FOR THE HARBOR OF PORTLAND BY RESOLUTION DATED APRIL 5, 1981;

THENCE S 30° 45' 00" E BY SAID APRIL 5, 1981 HARBOR COMMISSIONERS LINE 102.85 FEET TO THE HARBOR COMMISSIONERS LINE AND LAND CONVEYED TO MERRILL INDUSTRIES BY RELEASE DEED FROM THE CITY OF PORTLAND DATED NOV. 24, 1981;

THENCE BY SAID HARBOR COMMISSIONERS LINE THE FOLLOWING COURSES AND DISTANCES:

N 75° 00' 00" E 1202.73 FEET;
 N 64° 23' 38" E 184.00 FEET;
 N 14° 32' 54" W (PREVIOUSLY CITED AS N 14° 40' 00" W) 212.53 FEET;

THENCE N 16° 53' 20" W 41.31 FEET TO LAND OF SAID LEEN PARTNERSHIP;

THENCE S 73° 06' 40" W ALONG SAID LAND 260.00 FEET;

THENCE N 16° 53' 20" W ALONG SAID LAND 195.70 FEET TO THE POINT OF BEGINNING.

EXCEPTING ANY SUBMERGED LANDS LYING BETWEEN THE 1854 LOW WATER LINE AS SHOWN ON THE 1854 USCGS MAP AND THE CHANNEL OF THE FORE RIVER AND EXCEPTING ANY SUBMERGED LANDS BETWEEN THE LOCATION OF THE 1854 LOW WATER LINE AND THE CURRENT LOW WATER LINE AT OR NEAR THE WESTERLY BOUNDARY OF THE PROPERTY TO THE EXTENT THAT THE LATTER MAY HAVE BECOME SUBMERGED LANDS BY VIRTUE OF ACCRETION OR NATURALLY OCCURRING EROSION.

LEGEND:

- MANHOLE
- CATCH BASIN
- LIGHT POLE
- UTILITY POLE
- UTILITY POLE
- OVERHEAD ELECTRIC
- WATER LINE
- STORM DRAIN
- SANITARY SEWER
- FENCE

REFERENCES: SEE NOTE 4

LAND OR EASEMENTS GRANTED TO NEW ENGLAND PHONE AND TELEGRAPH COMPANY BY THE FOLLOWING INSTRUMENTS:

EASEMENT FROM GULF OIL CORPORATION BY INSTRUMENT DATED JULY 26, 1960 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 2584, PAGE 307, AS SHOWN. (TO BE RELEASED)

EASEMENT FROM J.B. BROWN & SONS BY INSTRUMENT DATED MAY 17, 1968 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 616, PAGE 704, AS SHOWN. (TO BE RELEASED)

EASEMENT FROM MERRILL INDUSTRIES, INC. DATED SEPTEMBER 19, 1983 RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 6312, PAGE 350, AS SHOWN. (TO BE RELEASED)

EASEMENT FOR DRAINAGE PURPOSES GRANTED TO THE LEEN PARTNERSHIP BY BROWN & SONS IN AN INSTRUMENT DATED JANUARY 10, 1980 AND RECORDED IN BOOK 4573, PAGE 91, AS SHOWN.

RIGHTS RESERVED IN DEED FROM THE PORTLAND TERMINAL COMPANY TO MERRILL INDUSTRIES, INC. DATED JULY 7, 1983 AND RECORDED WITH REGISTRY OF DEEDS IN BOOK 6216, PAGE 238, AS SHOWN.

RIGHTS AND AGREEMENTS REGARDING THE BUILDING AND MAINTAINING OF DOLPHIN AS SET FORTH IN SAID DEED FROM THE PORTLAND TERMINAL COMPANY TO MERRILL INDUSTRIES, INC. DATED JULY 7, 1983 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 6216, PAGE 238, AS SHOWN.

EASEMENT BY AND BETWEEN THE PORTLAND TERMINAL COMPANY AND MERRILL INDUSTRIES, INC. DATED JULY 31, 1983 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 6246, PAGE 310, AS SHOWN.

EASEMENTS GRANTED TO CENTRAL MAINE POWER COMPANY BY THE FOLLOWING INSTRUMENTS:

OWNER-OWNED LINE CONTRACT BY AND BETWEEN MERRILL INDUSTRIES, INC. AND CENTRAL MAINE POWER COMPANY DATED JULY 29, 1985 AND RECORDED IN BOOK 6921, PAGE 59, AS SHOWN.

EASEMENTS GRANTED TO PORTLAND WATER DISTRICT BY VIRTUE OF THE FOLLOWING INSTRUMENTS:

DEED BY AND BETWEEN PORTLAND WATER DISTRICT AND MERRILL INDUSTRIES, INC. DATED APRIL 30, 1987 AND RECORDED IN BOOK 8013, PAGE 72, AS SHOWN.

INDENTURE AGREEMENT BY AND BETWEEN PORTLAND WATER DISTRICT AND MERRILL INDUSTRIES, INC. DATED DECEMBER 31, 1997 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 13675, PAGE 214, AS SHOWN.

DEVELOPMENT ORDERS AND/OR MODIFICATIONS:

FOR MODIFICATION FINDINGS OF FACT AND ORDER DATED MAY 22, 1990 RECORDED IN BOOK 9196, PAGE 151, AS CORRECTED BY ORDER DATED JULY 31, 1990 IN BOOK 9287, PAGE 283, NON PLOTTABLE.

MEMORANDUM TO BOARD OF ENVIRONMENTAL PROTECTION DATED APRIL 2, 1992 AND RECORDED IN BOOK 10151, PAGE 163, NON PLOTTABLE.

FOR MODIFICATIONS DATED APRIL 3, 1996 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 12446, PAGE 12, NON PLOTTABLE.

EASEMENTS GRANTED TO MAINE PORT AUTHORITY BY MERRILL INDUSTRIES, INC. BY EASEMENT DEED DATED JUNE 29, 2002 AND RECORDED IN CUMBERLAND COUNTY REGISTRY OF DEEDS IN BOOK 17793, PAGE 222, AS SHOWN.

BOUNDARY OF AGREEMENT BY AND BETWEEN MAINE PORT AUTHORITY, MERRILL INDUSTRIES, INC. AND MERRILL MARINE TERMINAL SERVICES, INC. DATED JUNE 28, 2002 RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS IN BOOK 17793, PAGE 222 AND BOOK 17793 PAGE 233.

OWNER OF PROPERTY IS MERRILL INDUSTRIES, INC. THE MAILING ADDRESS IS 601-A DANFORTH STREET, PORTLAND, ME 04102, AND IS RECORDED BY DEED BOOK 4056/319, 4058, 4691/345, 4905/195, 6216/238, 6347/127 IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS.

LOCUS PROPERTY IS SHOWN ON THE CITY OF PORTLAND MAP 72 BLOCK A LOTS 3 AND 12.

GRAPHIC SURVEY WAS PERFORMED BY SEBAGO TECHNICS, INC. IN 1997. SEE PLAN REFERENCE 1. ADDITIONAL TOPOGRAPHY BY OWEN HASKELL, INC.

FENCE IS MADE TO FIRST AMERICAN TITLE INSURANCE COMPANY

NOTES - CONT'D

5. THE 1854 LOW WATER LINE IS THE LINE SHOWN ON THE USGS SURVEY (PHOTOGRAPHED FROM ORIGINAL TOPO SHEET NO. 735 IN THE ARCHIVES OF THE U.S. COAST AND GEODETIC SURVEY, SURVEYED IN 1854-6, SCALE 1/10,000 WASHINGTON, D.C. NOV. 16, 1912) BASED ON A SURVEY DONE IN 1854. THIS 1854 SURVEY PROVIDES A DEGREE OF PRECISION WITH REGARD TO THE LOW WATER LINE LOCATION WHICH IS NOT SHOWN ON SUBSEQUENT USGS MAP UPDATES DURING 1891, 1916 AND 1957. BECAUSE OF HISTORIC ACCRETION AND EROSION, THE LOW WATER LINE MAY HAVE MOVED BETWEEN 1854 AND 1887 WHEN THE STATE OF MAINE CEDED THE SUBMERGED LANDS IN THIS AREA (I.E. LANDS BELOW LOW WATER) TO THE CITY OF PORTLAND. SUBSEQUENT DREDGING BY THE US ARMY CORP OF ENGINEERS OF THE CHANNEL WHICH LIES WESTERLY OF THE 1854 LOW WATER LINE HAS LIKELY CAUSED EROSION ALONG THE WESTERLY LINE OF THE PROPERTY THUS EXPLAINING THE CURRENT LOCATION OF THE "LOW WATER LINE" FURTHER TO THE EAST OF THE 1854 LOW WATER LINE. ADDITIONAL DREDGING BEFORE 1975 TO CREATE A SMALL BOAT LANDING AREA ALSO CHANGED THE LOCATION OF THE "LOW WATER LINE" AT THE NORTHWESTERLY CORNER OF THE PROPERTY IN THE

PLAN REFERENCES:

- "MASTER SITE PLAN OF: MERRILL'S MARINE TERMINAL, DANFORTH AND WEST COMMERCIAL STREETS PORTLAND, MAINE FOR: MERRILL MAINE FOR: MERRILL INDUSTRIES, INC."
- "PLAN OF PROPERTY IN PORTLAND, MAINE MADE FOR MERRILL'S MARINE TERMINAL, EXISTING CONDITIONS PLAN BY H.I. AND E.C. JORDAN - SURVEYORS, DATED DECEMBER 18, 1989 AND STAMPED BY JOHN P. MCGONIGLE, JR., PLS 356."
- "PLAN AND PROFILE OF '20' HIGH UNDER VETERAN'S BRIDGE AT MERRILL'S COAL CO." PLAN BY PORTLAND WATER DISTRICT, 225 DOUGLASS STREET, PORTLAND, MAINE 04104. LAST REV. DATE 3/20/89. THE EASEMENT FOR THE PORTLAND WATER DISTRICT WATER MAIN IS RECORDED AT THE CUMBERLAND COUNTY REGISTRY OF DEEDS IN BOOK 8013, PAGE 72."
- "RIGHT-OF-WAY AND TRACK MAP PORTLAND TERMINAL OPERATED BY THE PORTLAND TERMINAL COMPANY" DATED JUNE 30, 1916 REVISED MARCH, 1954 SHEET V-1-D/1.

- "RIGHT-OF-WAY AND TRACK MAP THE PORTLAND & OGDENSBURG OGDENSBURG R. OWNED & OPERATED BY THE PORTLAND TERMINAL COMPANY" DATED JUNE 30, 1916, SHEET V-2/1A.
- "PLAN OF LAND IN PORTLAND, MAINE FOR MERRILL INDUSTRIES, INC." BY OWEN HASKELL, INC. DATED FEB. 2, 1978 REVISED THRU 7/31/78.
- "PLAN OF LAND IN PORTLAND, ME. FOR J.B. BROWN & SONS" BY OWEN HASKELL, INC. DATED 12/24/58.
- "PLAN OF PROPERTY IN PORTLAND, MAINE MADE FOR GULF OIL CORP. BY H. I. & E. C. JORDAN - SURVEYORS DATED JUNE 23, 1955 REVISED THRU 2 JULY, 1959."
- "PLAN OF PROPERTY BOUGHT BY Y.B. BROTHIN BY THE BOSTON & MAINE RAILROAD, PORTLAND" DATED MAY 15TH, 1873 RECORDED IN PLAN BOOK 3 PAGES 38 AND 39.
- "COMPILED PLAN FOR THE DISCONTINUANCE OF PORTIONS OF DANFORTH ST. AND WEST COMMERCIAL ST. IN PORTLAND, MAINE"

CERTIFICATION:

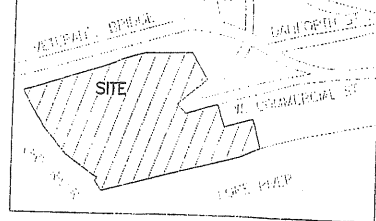
OWEN HASKELL, INC. CERTIFIES TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS MAP OR PLAN AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS" JOINTLY ESTABLISHED AND ADOPTED BY ALTA, ACSM AND NPS IN 1999 PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA, NPS, AND ACSM AND IN EFFECT ON THE DATE OF THIS CERTIFICATION. UNDERSIGNED FURTHER CERTIFIES THAT PROPER FIELD PROCEDURES, INSTRUMENTATION, AND ADEQUATE SURVEY PERSONNEL WERE EMPLOYED IN ORDER TO ACHIEVE RESULTS COMPARABLE TO THOSE OBTAINED IN THE "MINIMUM ANGLE, DISTANCE AND CLOSURE REQUIREMENTS FOR SURVEY MEASUREMENTS WHICH CONTROL LAND BOUNDARIES FOR ALTA/ACSM"

REV. 4	10-26-04	MISC. REVISIONS PER CLIENT, NOTE 1
REV. 3	09-28-04	REVISE LOT LINE TO FORE RIVER, ADD NOTE 5
REV. 2	09-16-04	MISC. REVISIONS PER CLIENT
REV. 1	01-07-03	ENCUMBRANCE LIST, DESCRIPTION, ETC.

LAND TITLE SURVEY
 ON
 DANFORTH AND WEST COMMERCIAL STREETS
 PORTLAND, MAINE
 MADE FOR RECORD OWNER:
 MERRILL INDUSTRIES, INC.
 601-A DANFORTH ST., PORTLAND, MAINE

OWEN HASKELL, INC.
 16 Casco St., PORTLAND, ME 04101 (207)774-0424

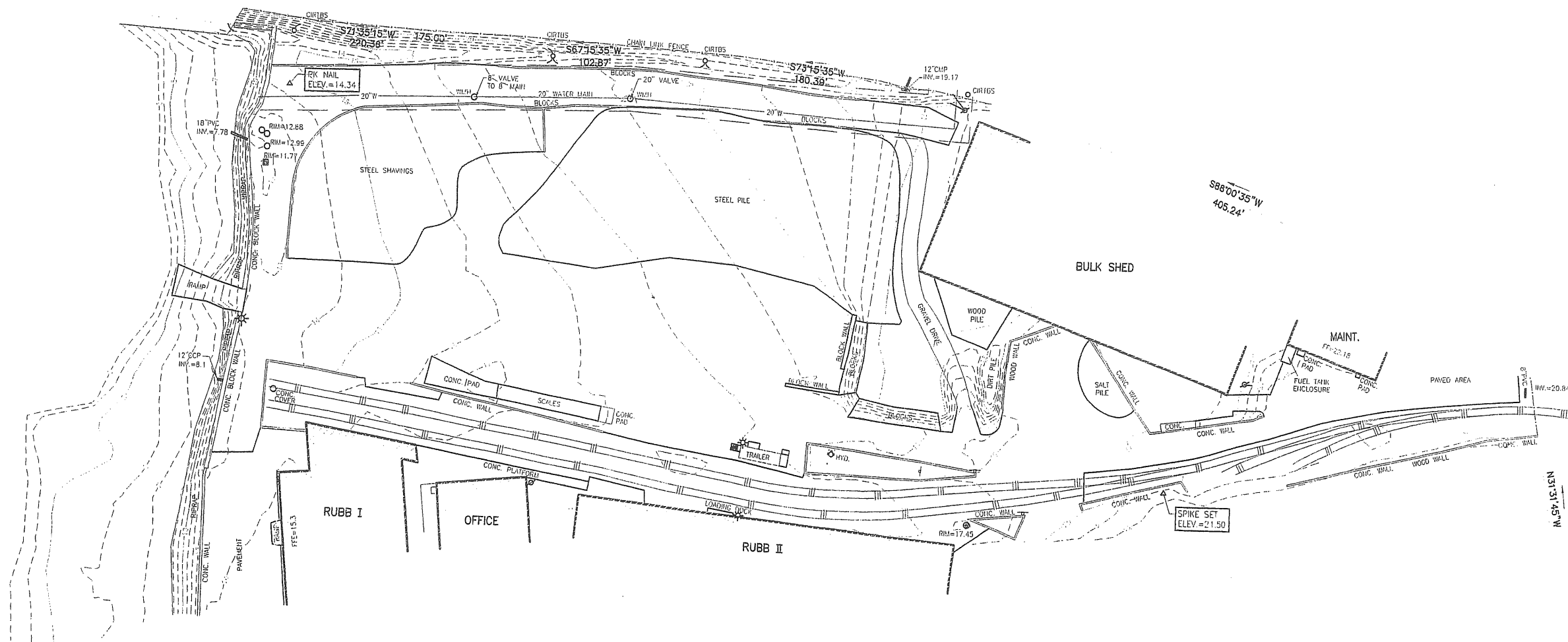
AH.28.2



LOCATION MAP
N.T.S.



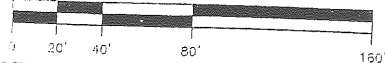
FORE RIVER



LEGEND

- CIRTS
- CAPPED IRON ROD TO BE SET
- WATER VALVE
- HYDRANT
- UTILITY POLE
- LIGHT POLE
- MANHOLE
- CATCH BASIN
- BOLLARD
- FENCE

GRAPHIC SCALE



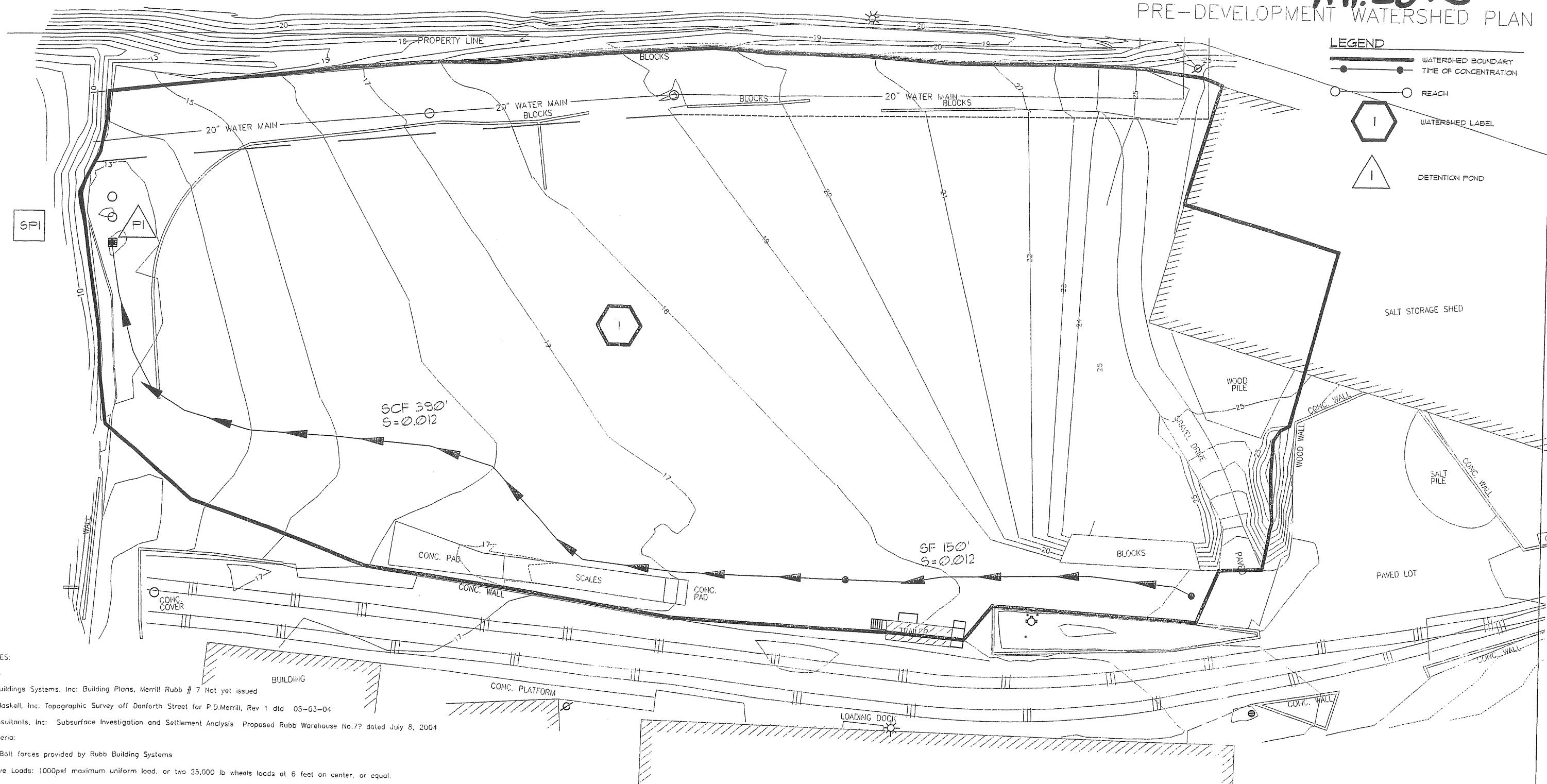
REV. 3	11-23-04	LOCATION/TOPO. REVISE SCALE TO 1"=40'
REV. 2	11-05-04	ADDED BENCHMARKS/REVISE MISC. ELEVATIONS
REV. 1	05-03-04	ADDED BOUNDARY AND EASEMENT LINES

TOPOGRAPHIC SURVEY
OFF
DANFORTH STREET, PORTLAND, MAINE
MADE FOR
MERRILL INDUSTRIES, INC.

OWEN HASKELL, INC.
16 CASCO ST., PORTLAND, ME 04101 (207) 774-0424

AH.28.3

PRE-DEVELOPMENT WATERSHED PLAN



LEGEND

- WATERSHED BOUNDARY
- TIME OF CONCENTRATION
- REACH
- WATERSHED LABEL
- DETENTION POND

- NOTES:**
1. Refer to:
 - a. Buildings Systems, Inc: Building Plans, Merrill Rubb # 7 Not yet issued
 - b. Owen-Haskell, Inc: Topographic Survey off Danforth Street for P.D.Merrill, Rev 1 dtd 05-03-04
 - c. Consultants, Inc: Subsurface Investigation and Settlement Analysis Proposed Rubb Warehouse No.?? dated July 8, 2004
 2. Criteria:
 - a. Anchor Bolt forces provided by Rubb Building Systems
 - b. Live Loads: 1000psf maximum uniform load, or two 25,000 lb wheels loads at 6 feet on center, or equal.
 - c. 20 psf avg / 4000 psf max ground pressure.
 - d. Differential Settlement: 0.167% (2" per 100 ft) maximum, within 12 months of construction
 - e. Temporary Wind Load: Prior to Floor Slab, 50 mph. (cross-tie side walls as required in advance of greater wind speeds).
 - f. Layout, dimensions, and details not shown herein, refer to Rubb Plans (Ref 1A). Incorporate all Rubb Building Plan construction details, (anchor bolts, anchorages, base plates, etc.)
 - g. In the discovery of any discrepancies between these plans and Rubb Building Plans, Owen-Haskell Survey Plan, approved shop drawings, or existing conditions, proceed with dependent work until discrepancies have been resolved by GEI.
 - h. All proprietary materials in strict compliance with the manufacturer's recommendations.
 - i. Excavated Materials: Grind and recycle excavated asphalt pavement. To the extent possible, re-cycle or blend excavated materials with other materials as required to minimum specification/requirements for Granular Fill.
 - j. Moisture and Proof-roll/Compact excavated surfaces to 120 psf density (min.) within 12 inches of surface (bottom of excavation).
 - k. Sub-grade Prep: Control moisture and compact top layer of Fill (Type A) to 95% of ASTM D1557 maximum density. Compact using a vibratory roller of sufficient size to bring to leave the surface flat and smooth. Inspect the surface and drive any protruding stones flush with the top surface, prior to installing polyethylene.
 - l. Shrinkage Prep: Install a double application of bond-breaker on all (concrete-concrete) contact surfaces in advance of slab placement. Install 1/2 inch compressible material along wall edges in way of slab shrinkage movements. Except at Construction joints do not connect Slabs to any adjacent concrete wall, slab, or structure.
 - m. Joints: Cut Saw-cut joints where shown, and as detailed, within 6 hours of concrete placement. Fill Saw-cuts with an approved epoxy after 28 days (min.) cure.
 - n. Wind (Wind) Support: Prior to installing Floor Slab, Install Temporary Exterior Fill to Elevation 21.5' along North & South walls. In addition if the Slab Walls are in excess of 50 mph, cross tie the North & South walls with Cables as detailed.

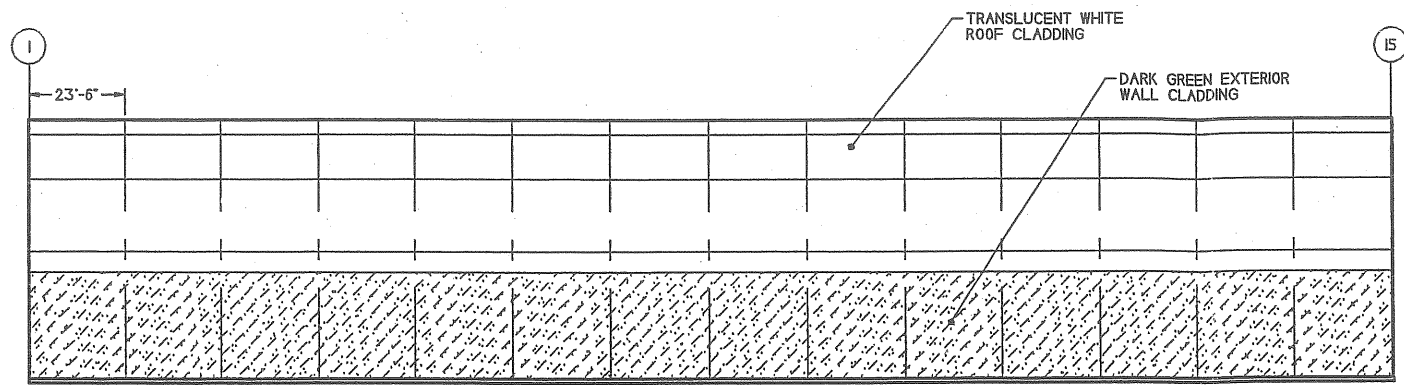
GRADING PLAN

SCALE: 1" = 20'

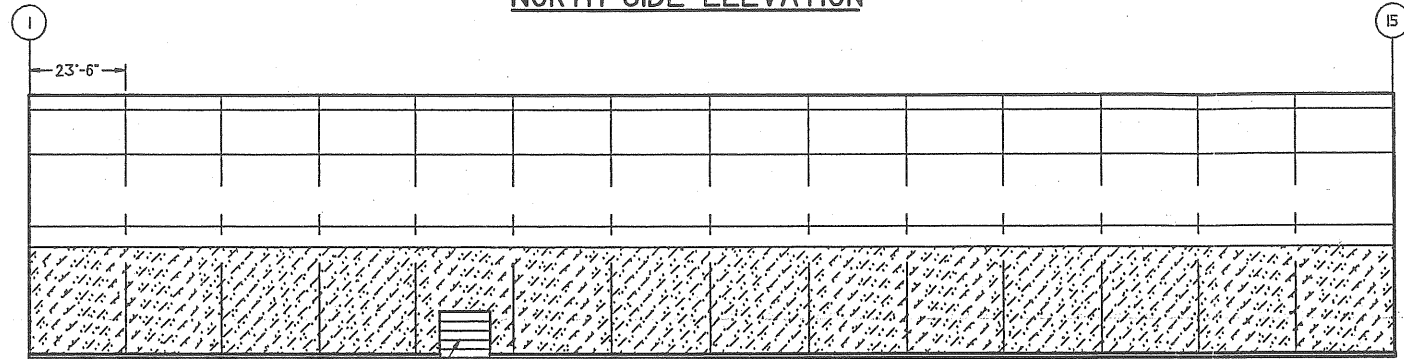
PRELIMINARY PLANS
*** NOT FOR CONSTRUCTION ***
 (PLANS FOR BUDGETING PURPOSES ONLY)

REV	DATE	BY	DESCRIPTION
WORK:			
MERRILL MARINE TERMINAL MERRILL INDUSTRIES, RUBB BUILDING VII			
DRAWING: GRADING PLAN			
SCALE: AS SHOWN	DATE: 8/28/04		SHEET: 1 OF 5
GAGNON ENGINEERING INC.			

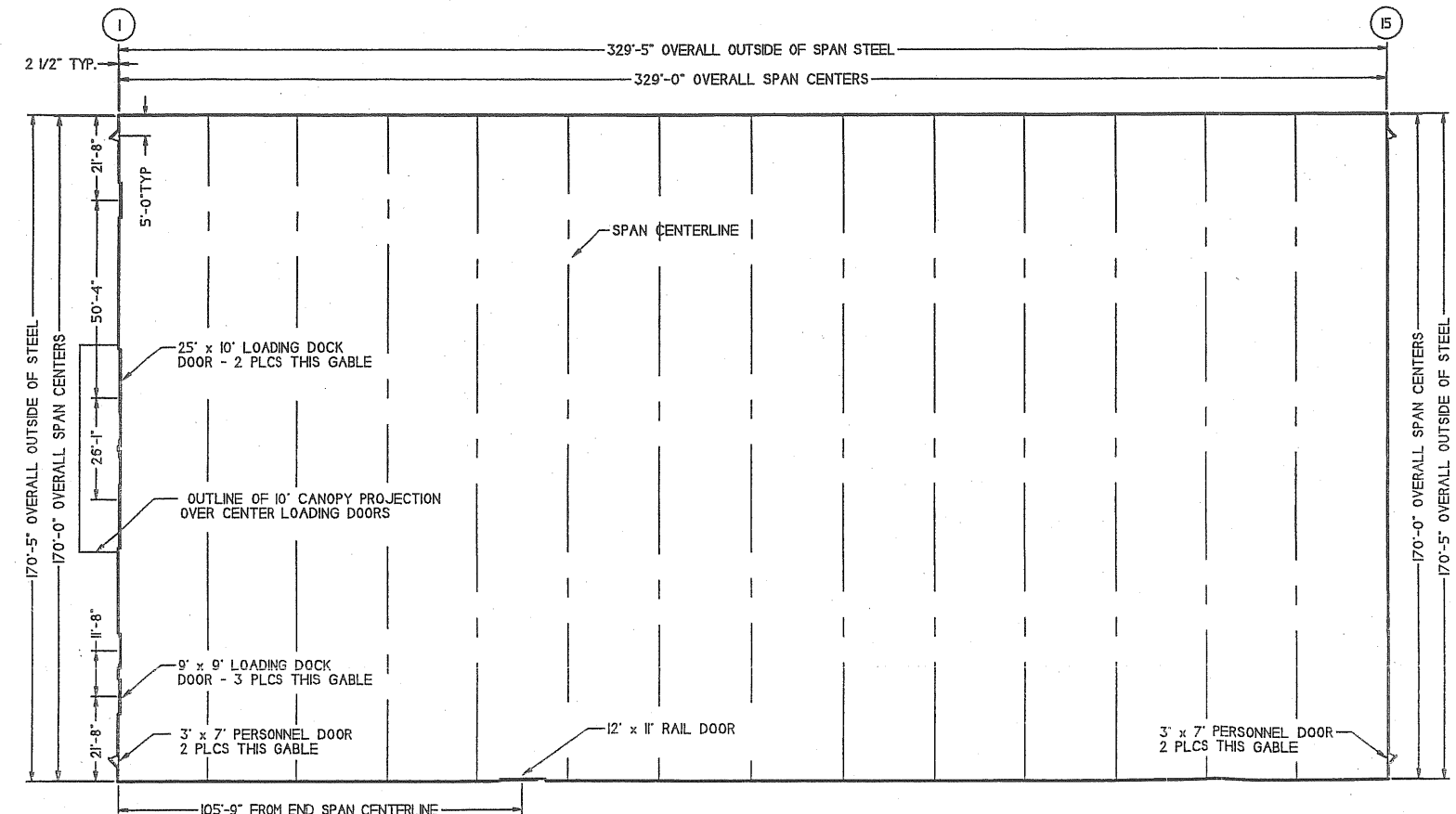
NOTE:
 UNCERTIFIED (MAINE P.E.) PLANS
 ARE FOR INFORMATION ONLY.



NORTH SIDE ELEVATION

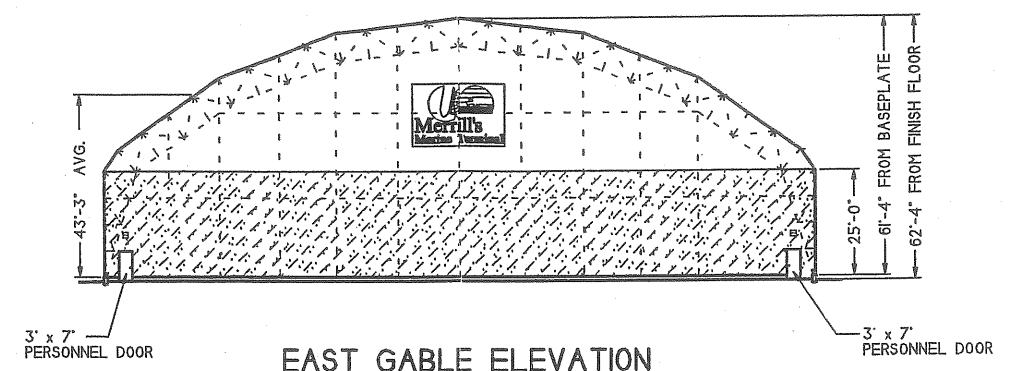


SOUTH SIDE ELEVATION

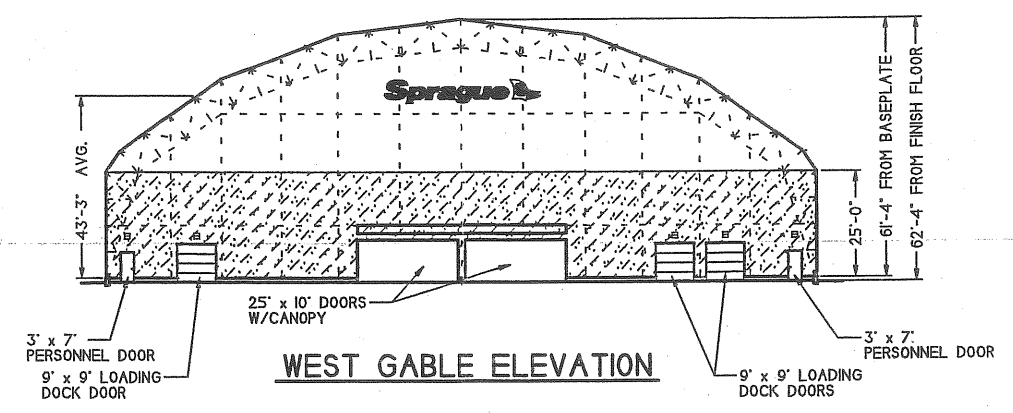


**EAST
PLAN VIEW**

Sprague



EAST GABLE ELEVATION



WEST GABLE ELEVATION

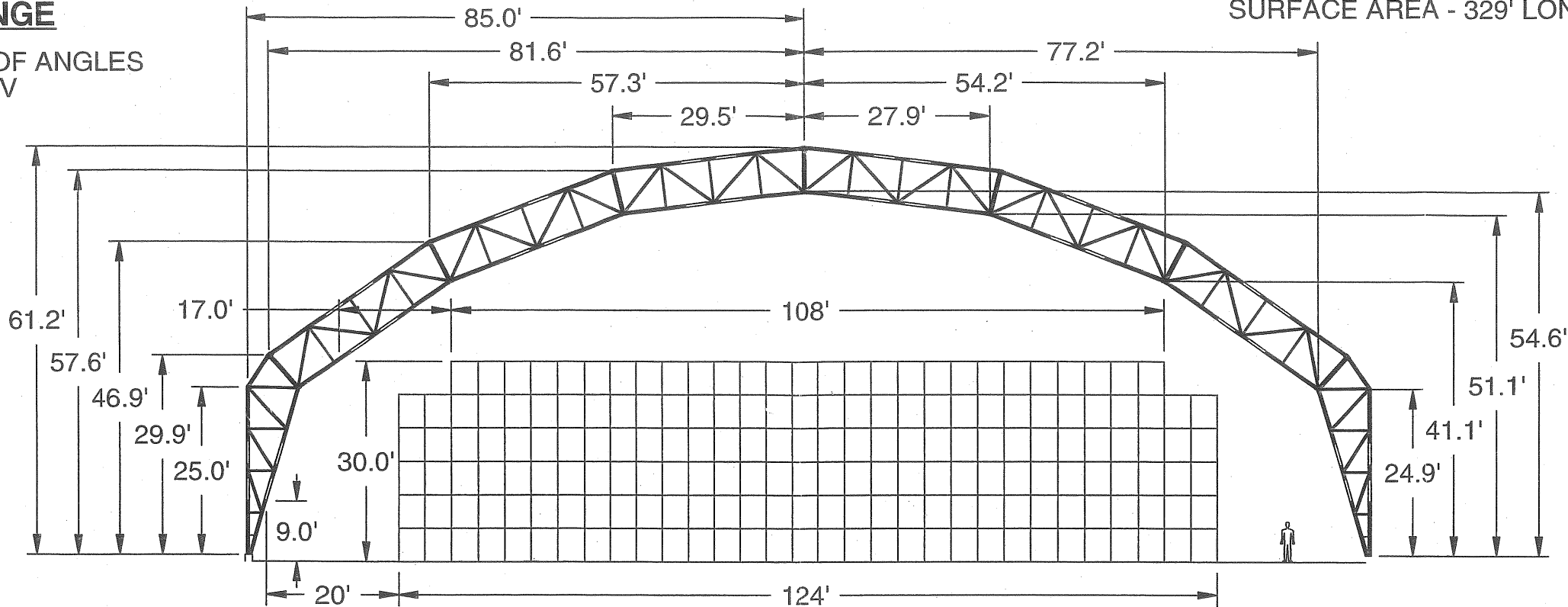
- 1.) COVERING MATERIAL IS A PVC IMPREGNATED POLYESTER WEAVE FABRIC SELF EXTINGUISHING TO FEDERAL TEST STANDARD 191 METHOD 5903 AND COMPLIES WITH NFPA STANDARD 701, UBC 55-1 AND CALIFORNIA STATE FIRE MARSHALL'S OFFICE.
- 2.) STRUCTURAL FRAMEWORK IS POST PRODUCTION HOT DIP GALVANIZED TUBULAR STEEL TRUSS FRAMES INTERCONNECTED WITH GALVANIZED TUBULAR STEEL PURLINS AND FRAMES. STEEL PLATE AND SHAPES ARE A36. STEEL TUBING IS A500.
- 3.) STRUCTURAL LOADS: IBC 2003
 WIND LOAD: 100 mph 3 SEC GUST EXPOSURE C le=0.87
 ROOF LIVE LOAD: 30 psf GROUND SNOW LOAD: 50 psf, ls= 0.80

REV.	DESCRIPTION	DRAWN	APP.	DATE
1	We Cover The World			
	RUBB			
	BUILDING SYSTEMS			
DCN 1-27-05	SCALE 1 : 250			This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.
	05014			
	MERRILL RUBB VII			
RUBB, INC. SANFORD MAINE 04073				DRAWING NO. 39764
TEL: 207-324-2877 FAX: 207-324-2347				

AVC WITH 25' WALL GIVES SPACE
FOR 182 - 4' DIA x 5' HIGH ROLLS
SPAN PER. = 240 LF - GABLE = 8,504 SF
SURFACE AREA - 329' LONG = 96,088 SF

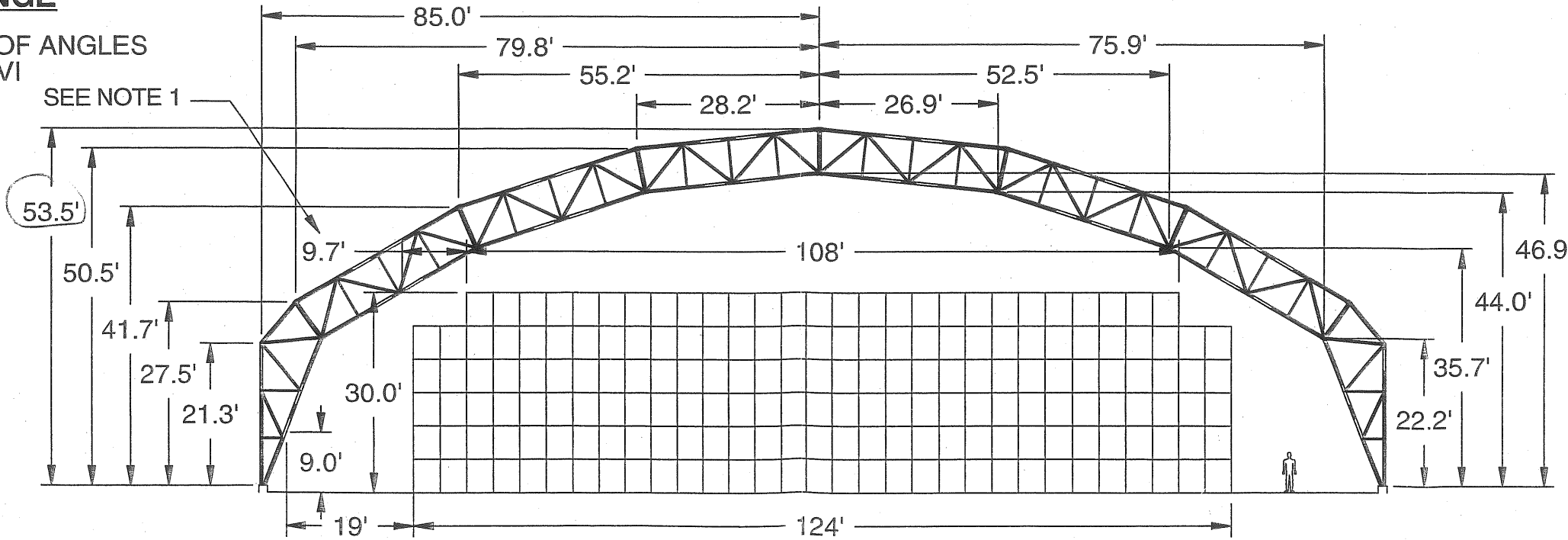
AVC RANGE

SAME ROOF ANGLES
AS RUBB IV



BVE RANGE

SAME ROOF ANGLES
AS RUBB VI



BVE WITH 21' WALL GIVES SPACE
FOR 182 - 4' DIA x 5' HIGH ROLLS
SPAN PER. = 230 LF - GABLE = 7,428 SF
SURFACE AREA - 329' LONG = 90,641 SF

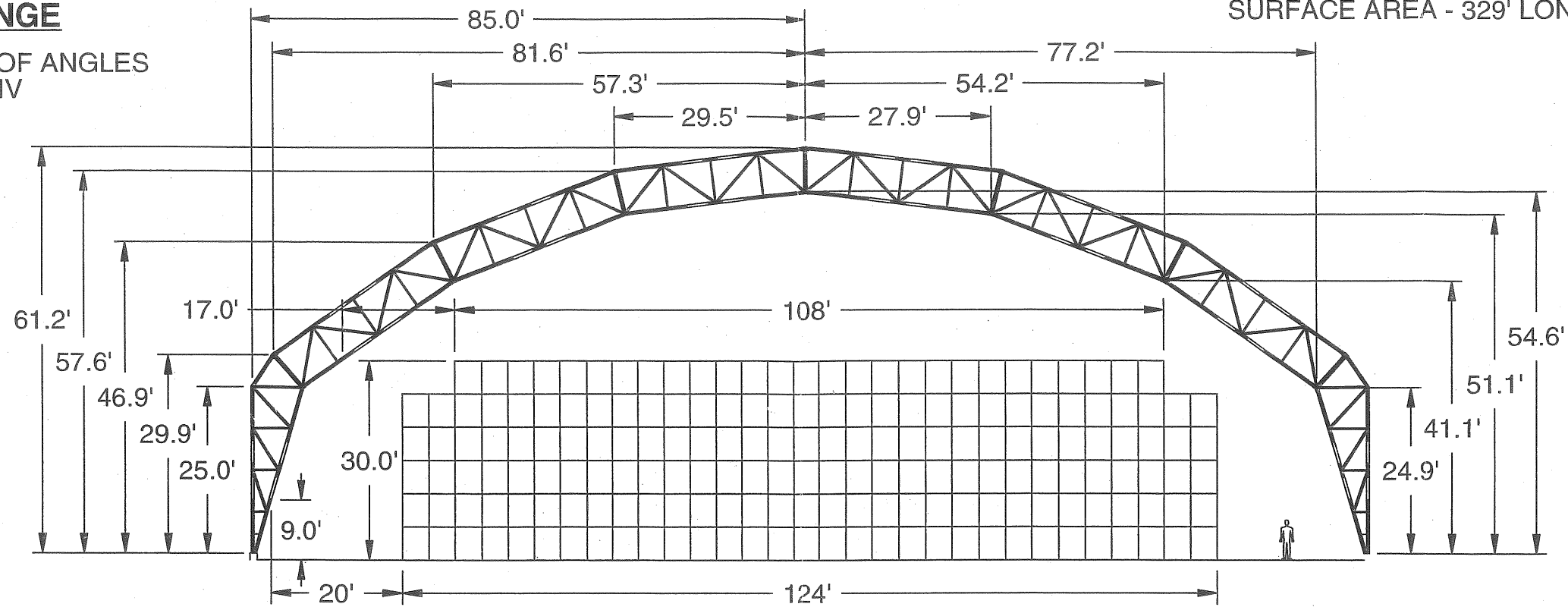
NOTE 1:

INCREASING WALL OF BVE TO 25'
BRINGS SURFACE AREA TO 94,337 SF
OR 2% LESS THAN AVC WITH 25' WALL.
THIS ALSO INCREASE 9.7' CLEARANCE TO 16.1'

TITLE		We Cover The World	
170' AVC AND BVE / 25' LEG SPAN PROFILE COMPARISON			
SCALE	DRAWN	DATE	DRAWING NO.
1 : 350	DCN	1/28/05	81974

AVC RANGE

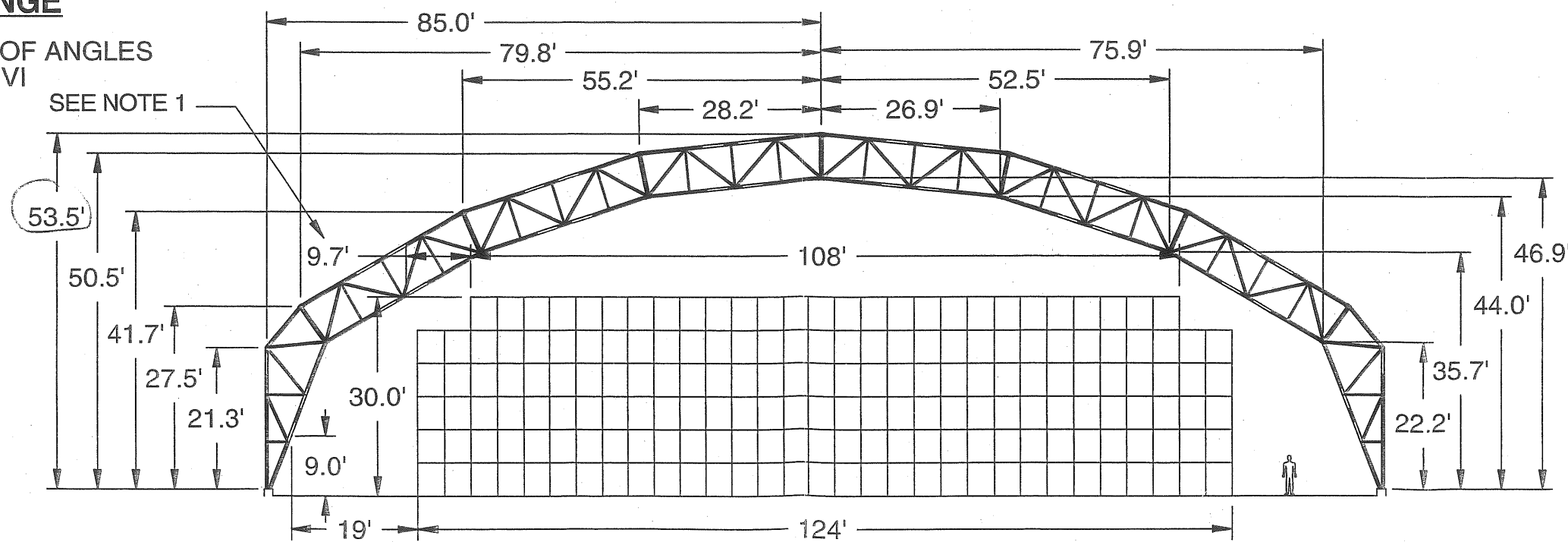
SAME ROOF ANGLES AS RUBB IV



AVC WITH 25' WALL GIVES SPACE FOR 182 - 4' DIA x 5' HIGH ROLLS
SPAN PER. = 240 LF - GABLE = 8,504 SF
SURFACE AREA - 329' LONG = 96,088 SF

BVE RANGE

SAME ROOF ANGLES AS RUBB VI

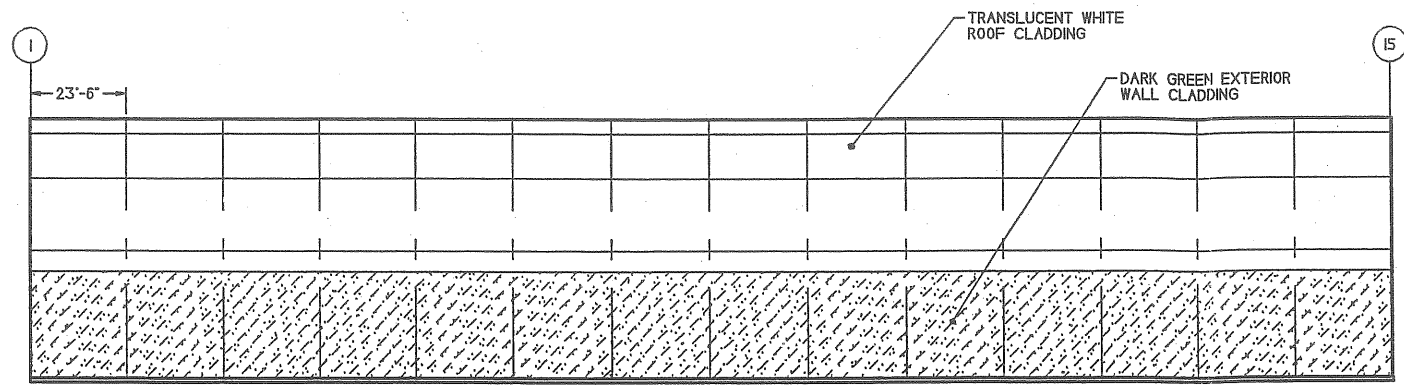


BVE WITH 21' WALL GIVES SPACE FOR 182 - 4' DIA x 5' HIGH ROLLS
SPAN PER. = 230 LF - GABLE = 7,428 SF
SURFACE AREA - 329' LONG = 90,641 SF

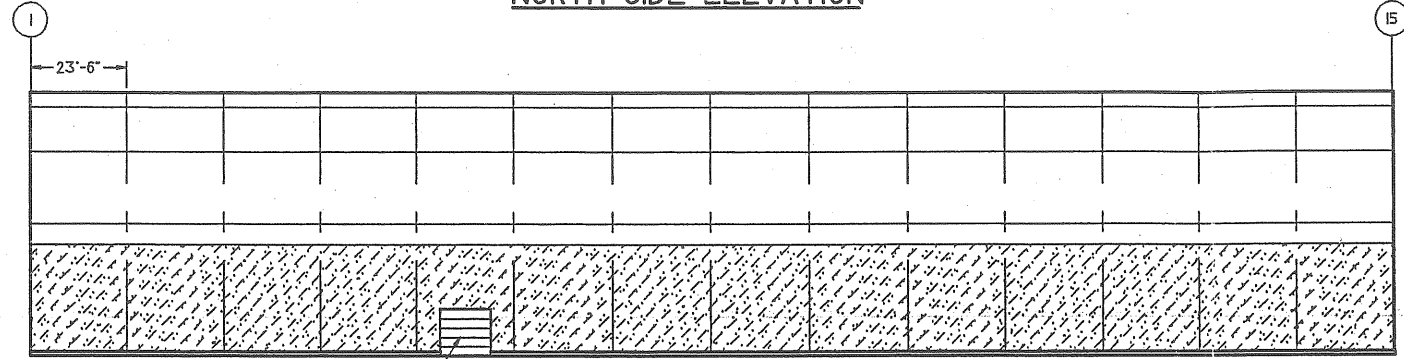
NOTE 1:

INCREASING WALL OF BVE TO 25' BRINGS SURFACE AREA TO 94,337 SF OR 2% LESS THAN AVC WITH 25' WALL. THIS ALSO INCREASE 9.7' CLEARANCE TO 16.1'

TITLE		We Cover The World	
170' AVC AND BVE / 25' LEG SPAN PROFILE COMPARISON			
SCALE	DRAWN	DATE	DRAWING NO.
1 : 350	DCN	1/28/05	81974

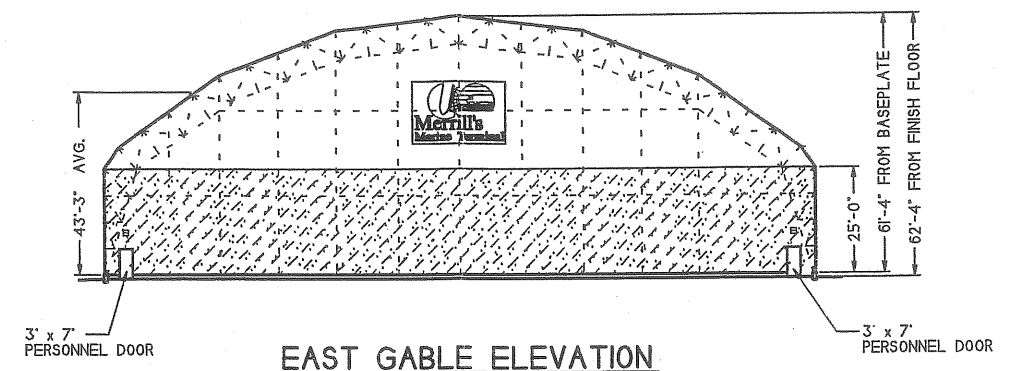


NORTH SIDE ELEVATION

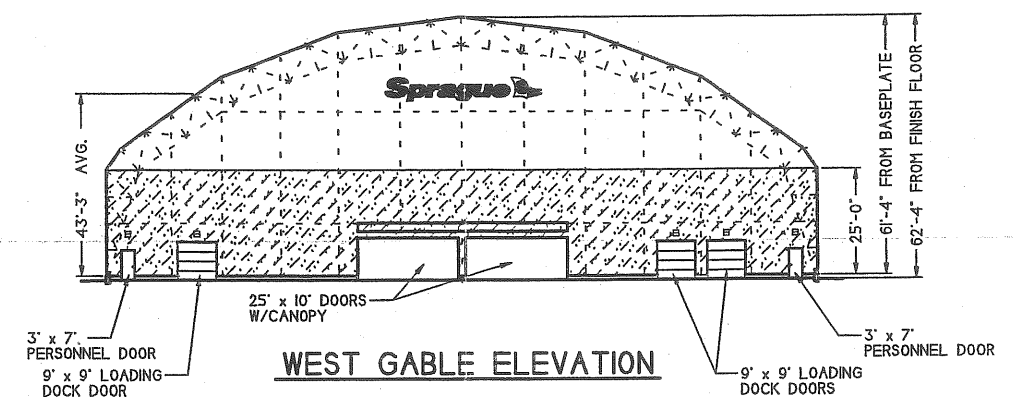


SOUTH SIDE ELEVATION

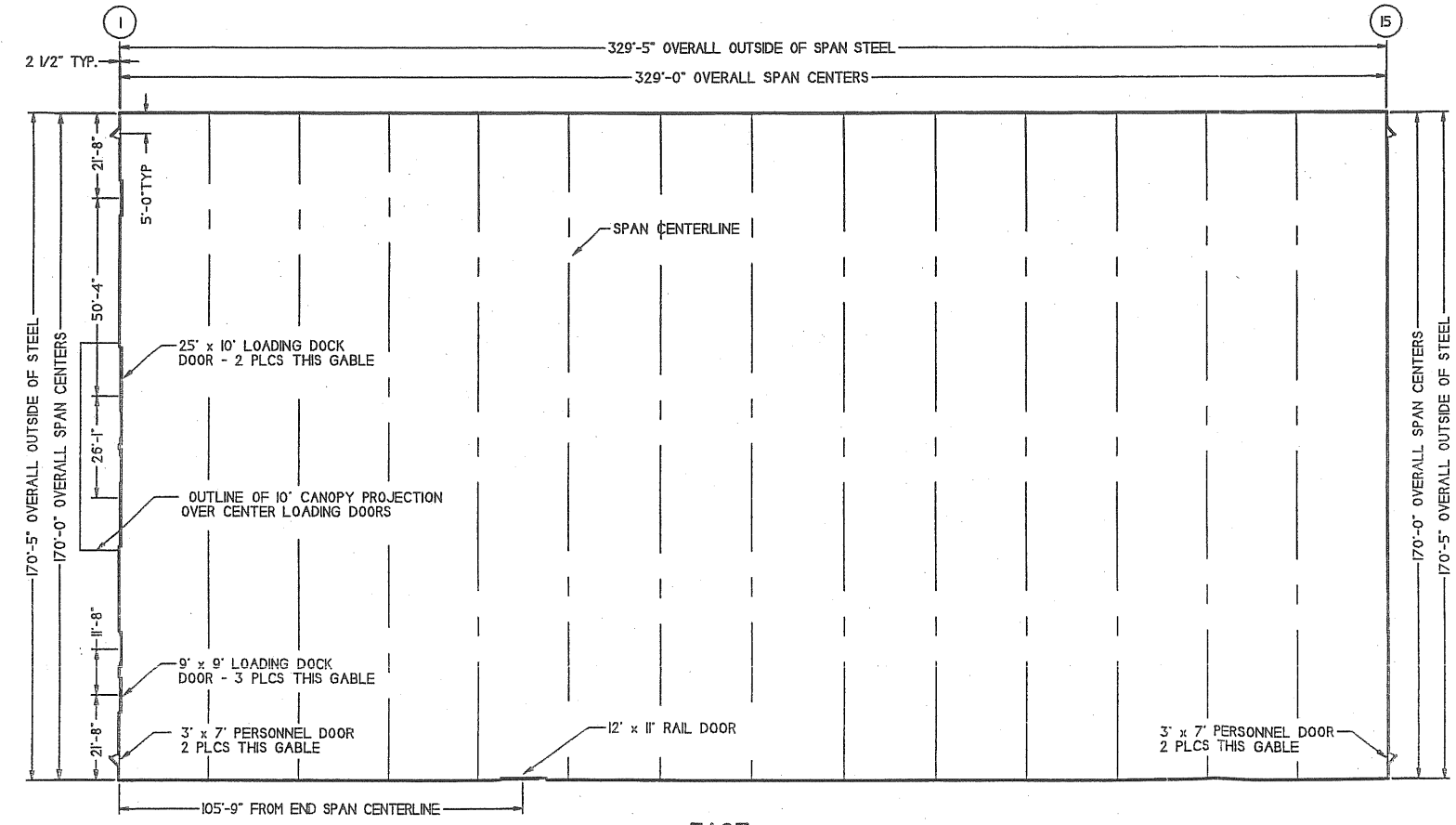
Sprague



EAST GABLE ELEVATION



WEST GABLE ELEVATION

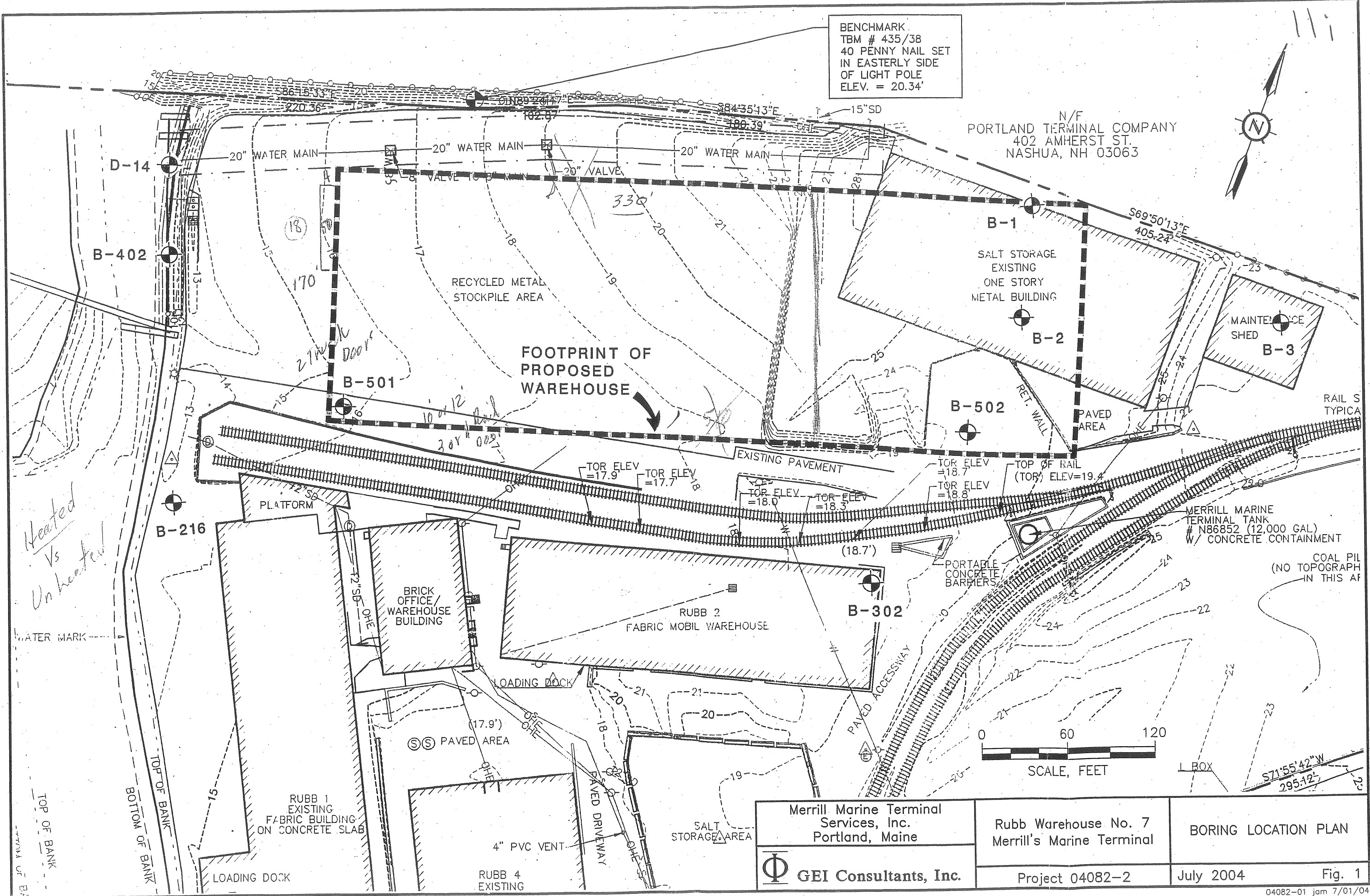


EAST
PLAN VIEW

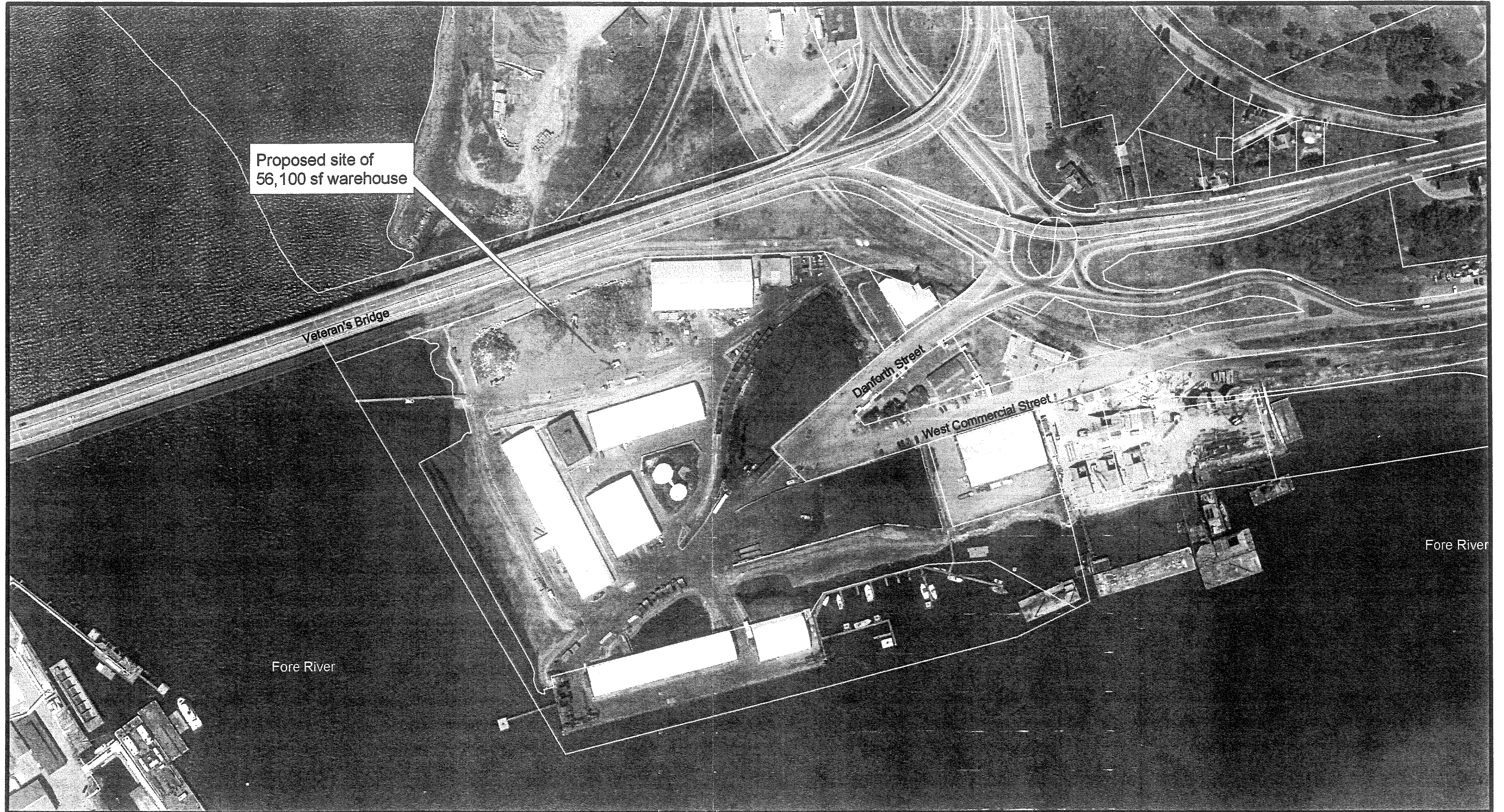
EAST GABLE

- 1.) COVERING MATERIAL IS A PVC IMPREGNATED POLYESTER WEAVE FABRIC SELF EXTINGUISHING TO FEDERAL TEST STANDARD 191 METHOD 5903 AND COMPLIES WITH NFPA STANDARD 701, UBC 55-4 AND CALIFORNIA STATE FIRE MARSHALL'S OFFICE.
- 2.) STRUCTURAL FRAMEWORK IS POST PRODUCTION HOT DIP GALVANIZED TUBULAR STEEL TRUSS FRAMES INTERCONNECTED WITH GALVANIZED TUBULAR STEEL PURLINS AND FRAMES. STEEL PLATE AND SHAPES ARE A36. STEEL TUBING IS A500.
- 3.) STRUCTURAL LOADS: IBC 2003
WIND LOAD: 100 mph 3 SEC GUST EXPOSURE C $le=0.87$
ROOF LIVE LOAD: 30 psf GROUND SNOW LOAD: 50 psf, $le=0.80$

REV.	DESCRIPTION	DRAWN	APP.	DATE
1	As Cover The World			
	RUBB			
	BUILDING SYSTEMS			
DCN	DCN I-27-05	SCALE	1 : 250	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any kind of covering purpose without the express written consent of Rubb, Inc.
APP.		NO.	05014	
DATE		BY	MERRILL, RUBB VII	
	RUBB, INC. SANFORD MAINE 04073	TELEPHONE	207-324-2877	FAX 207-324-2347
		DRAWING NO.		39764

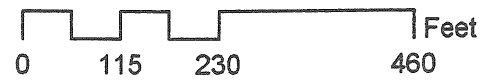


Merrill Marine Terminal Services, Inc. Portland, Maine	Rubb Warehouse No. 7 Merrill's Marine Terminal	BORING LOCATION PLAN	
GEI Consultants, Inc.	Project 04082-2	July 2004	Fig. 1



Merrill Marine Terminal Proposed Warehouse

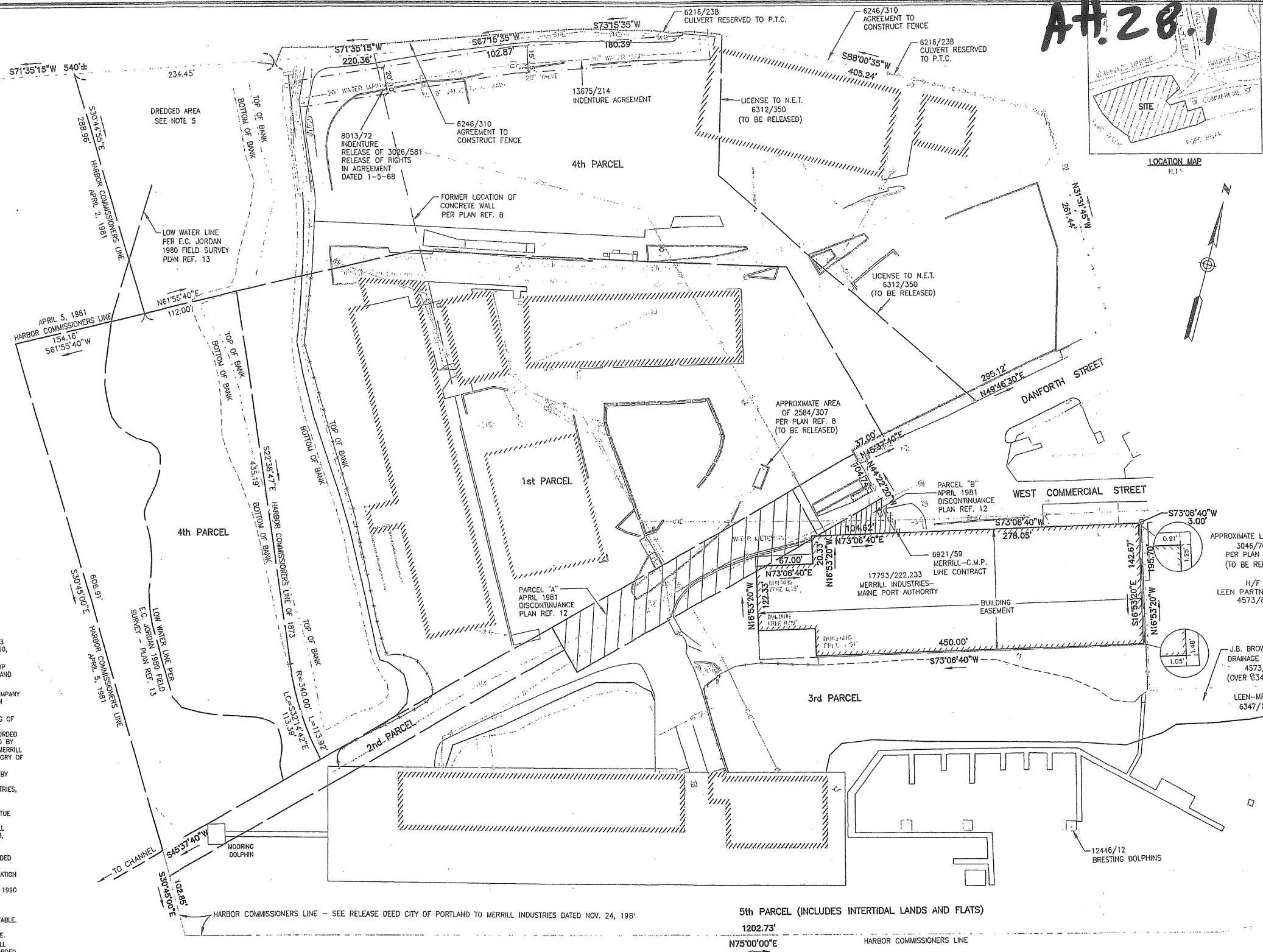
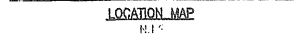
Map prepared for the City of Portland Planning Board by the Portland Planning Division using data from the Portland GIS Work Group January 2005



Att. 28.1

COMPILED DESCRIPTION FOR MERRILL INDUSTRIES
A CERTAIN PARCEL OF LAND SITUATED ON THE SOUTHERLY SIDE OF WEST COMMERCIAL STREET AND THE NORTHERLY SIDE OF DANFORTH STREET, IN THE CITY OF PORTLAND, COUNTY OF CUMBERLAND, STATE OF MAINE BEING BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING ON THE SOUTHERLY SIDELINE OF WEST COMMERCIAL STREET AT THE WESTERLY CORNER OF LAND NOW OR FORMERLY OF LEEN PARTNERSHIP, REFERENCE BOOK 4573 PAGE 89;
THENCE S 73° 06' 40" W ALONG SAID SIDELINE 281.05 FEET TO THE WESTERLY TERMINUS OF WEST COMMERCIAL STREET;
THENCE N 44° 22' 20" W CROSSING SAID COMMERCIAL STREET AND DANFORTH STREET 104.74 FEET TO THE NORTHWESTERLY SIDELINE OF DANFORTH STREET;
THENCE N 45° 37' 40" E ALONG SAID SIDELINE 37.00 FEET;
THENCE N 49° 46' 30" E ALONG SAID SIDELINE 295.12 FEET TO LAND NOW OR FORMERLY OF THE PORTLAND TERMINAL COMPANY;
THENCE BY SAID LAND THE FOLLOWING COURSES AND DISTANCES:
N 31° 31' 45" W 261.44 FEET;
S 88° 00' 35" W 405.24 FEET;
S 73° 15' 35" W 180.39 FEET;
S 67° 15' 35" W 102.87 FEET;
S 71° 35' 15" W 220.36 FEET;
THENCE CONTINUING S 71° 35' 15" W 540 FEET, MORE OR LESS, TO THE LOW WATER LINE OF THE FORE RIVER IN 1854;
THENCE CONTINUING S 71° 35' 15" W TO THE CHANNEL OF THE FORE RIVER IN 1854;
THENCE SOUTHERLY ALONG SAID CHANNEL OF THE FORE RIVER TO THE WESTERLY PROLONGATION OF THE NORTHERLY SIDELINE OF DANFORTH STREET AS DISCONTINUED BY ACTION OF THE CITY COUNCIL OF THE CITY OF PORTLAND DATED MAY 18, 1980;
THENCE N 45° 37' 40" E ALONG SAID PROLONGATION OF SAID NORTHERLY SIDELINE TO THE "REVISED HARBOR COMMISSIONERS LINE AS ESTABLISHED BY THE BOARD OF HARBOR COMMISSIONERS FOR THE HARBOR OF PORTLAND BY RESOLUTION DATED APRIL 5, 1981";
THENCE S 30° 45' 00" E BY SAID APRIL 5, 1981 HARBOR COMMISSIONERS LINE 102.85 FEET TO THE HARBOR COMMISSIONERS LINE AND LAND CONVEYED TO MERRILL INDUSTRIES BY RELEASE DEED FROM THE CITY OF PORTLAND DATED NOV. 24, 1981;
THENCE BY SAID HARBOR COMMISSIONERS LINE THE FOLLOWING COURSES AND DISTANCES:
N 75° 00' 00" E 1202.73 FEET;
N 64° 23' 38" E 184.00 FEET;
N 14° 32' 54" W (PREVIOUSLY CITED AS N 14° 40' 00" W) 212.53 FEET;
THENCE N 16° 53' 20" W 41.31 FEET TO LAND OF SAID LEEN PARTNERSHIP;
THENCE S 73° 06' 40" W ALONG SAID LAND 260.00 FEET;
THENCE N 16° 53' 20" W ALONG SAID LAND 195.70 FEET TO THE POINT OF BEGINNING.
EXCEPTING ANY SUBMERGED LANDS LYING BETWEEN THE 1854 LOW WATER LINE AS SHOWN ON THE 1854 USCGS MAP AND THE CHANNEL OF THE FORE RIVER AND EXCEPTING ANY SUBMERGED LANDS BETWEEN THE LOCATION OF THE 1854 LOW WATER LINE AND THE CURRENT LOW WATER LINE AT OR NEAR THE WESTERLY BOUNDARY OF THE PROPERTY TO THE EXTENT THAT THE LATTER MAY HAVE BECOME SUBMERGED LANDS BY VIRTUE OF ACCRETION OR NATURALLY OCCURRING EROSION.



- OLE 1 BASIN
- POLE
- Y POLE
- Y POLE
- HEAD ELECTRIC
- L LINE
- M DRAIN
- ARY SEWER
- E

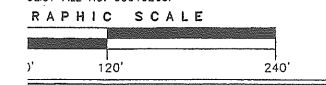
SEE NOTE 4
EASEMENTS GRANTED TO NEW ENGLAND TELEGRAPH COMPANY BY THE FOLLOWING:
1. GULF OIL CORPORATION BY INSTRUMENT DATED JULY 7, 1983 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 6216, PAGE 238, AS SHOWN.
2. J.B. BROWN & SONS BY INSTRUMENT DATED APRIL 2, 1981 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 704, AS SHOWN.
3. MERRILL INDUSTRIES, INC. DATED SEPTEMBER 19, 1983 WITH SAID REGISTRY OF DEEDS IN BOOK 6312, PAGE 350, AS SHOWN.
4. DRAINAGE PURPOSES GRANTED TO THE LEEN PARTNERSHIP & SONS IN AN INSTRUMENT DATED JANUARY 10, 1980 AND BOOK 4573, PAGE 91, AS SHOWN.
5. RESERVED IN DEED FROM THE PORTLAND TERMINAL COMPANY, INC. DATED JULY 7, 1983 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 6216, PAGE 238, AS SHOWN.
6. AGREEMENTS REGARDING THE BUILDING AND MAINTAINING OF DANFORTH IN SAID DEED FROM THE PORTLAND TERMINAL COMPANY, INC. DATED JUNE 7, 1983 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 6216, PAGE 214, AS SHOWN.
7. AGREEMENTS BETWEEN THE PORTLAND TERMINAL COMPANY AND MERRILL INDUSTRIES, INC. DATED JULY 31, 1983 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 6246, PAGE 310, AS SHOWN.
8. EASEMENTS GRANTED TO CENTRAL MAINE POWER COMPANY BY FOLLOWING INSTRUMENTS:
9. WINDEN LINE CONTRACT BY AND BETWEEN MERRILL INDUSTRIES, INC. AND CENTRAL MAINE POWER COMPANY DATED JULY 29, 1985 AND BOOK 6921, PAGE 59, AS SHOWN.
10. EASEMENTS GRANTED TO PORTLAND WATER DISTRICT BY VIRTUE OF INSTRUMENTS:
11. BY AND BETWEEN PORTLAND WATER DISTRICT AND MERRILL INDUSTRIES, INC. DATED APRIL 30, 1987 AND RECORDED IN BOOK 8013, PAGE 101.
12. AGREEMENT BY AND BETWEEN PORTLAND WATER DISTRICT AND MERRILL INDUSTRIES, INC. DATED DECEMBER 31, 1997 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 13675, PAGE 214, AS SHOWN.
13. DEPARTMENT OF ENVIRONMENTAL PROTECTION SITE LOCATION IT ORDERS AND/OR MODIFICATIONS:
14. LOCATION FINDINGS OF FACT AND ORDER DATED MAY 22, 1990 IN BOOK 9196, PAGE 151, AS CORRECTED BY ORDER DATED APRIL 1, 1991 IN BOOK 9287, PAGE 283, NON PLOTTABLE.
15. TO BOARD OF ENVIRONMENTAL PROTECTION DATED AND RECORDED IN BOOK 10151, PAGE 163, NON PLOTTABLE.
16. MODIFICATIONS DATED APRIL 3, 1996 AND RECORDED WITH SAID REGISTRY OF DEEDS IN BOOK 12446, PAGE 12, NON PLOTTABLE.
17. EASEMENTS GRANTED TO MAINE PORT AUTHORITY BY MERRILL INDUSTRIES, INC. BY EASEMENT DEED DATED JUNE 28, 2002 AND RECORDED IN LAND COUNTY REGISTRY OF DEEDS IN BOOK 17793, PAGE 222.

NOTES - CONT'D
5. THE 1854 LOW WATER LINE IS THE LINE SHOWN ON THE USGS SURVEY "PHOTOGRAPHED FROM ORIGINAL TOPO SHEET NO. 735 IN THE ARCHIVES OF THE U.S. COAST AND GEODETIC SURVEY, SURVEYED IN 1854-8, SCALE 1/10,000 WASHINGTON, D.C. NOV. 16, 1912" BASED ON A SURVEY DONE IN 1854. THIS 1854 SURVEY PROVIDES A DEGREE OF PRECISION WITH REGARD TO THE LOW WATER LINE LOCATION WHICH IS NOT SHOWN ON SUBSEQUENT USGS MAP UPDATES DONE IN 1891, 1916 AND 1957. BECAUSE OF HISTORIC ACCRETION AND EROSION, THE LOW WATER LINE MAY HAVE MOVED BETWEEN 1854 AND 1887 WHEN THE STATE OF MAINE CEDED THE SUBMERGED LANDS IN THIS AREA (I.E. LANDS BELOW LOW WATER) TO THE CITY OF PORTLAND. SUBSEQUENT DREDGING BY THE US ARMY CORP OF ENGINEERS OF THE CHANNEL WHICH LIES WESTERLY OF THE 1854 LOW WATER LINE HAS LIKELY CAUSED EROSION ALONG THE WESTERLY LINE OF THE PROPERTY THUS EXPLAINING THE CURRENT LOCATION OF THE "LOW WATER LINE" FURTHER TO THE EAST OF THE 1854 LOW WATER LINE. ADDITIONAL DREDGING BEFORE 1975 TO CREATE A SMALL BOAT LANDING AREA ALSO CHANGED THE LOCATION OF THE "LOW WATER LINE" AT THE NORTHWESTERLY CORNER OF THE PROPERTY IN THE AREA MARKED "DREDGE AREA". THE DEED FROM JOHN B. BROWN TO BOSTON & MAINE RAILROAD, MERRILL'S PREDECESSOR IN TITLE, DATED MARCH 15, 1873 AND RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS IN BOOK 401, PAGE 165, CALLS AS A WESTERLY BOUND THE CHANNEL OF THE FORE RIVER WHICH IS WESTERLY OF THE 1854 LOW WATER LINE AS SHOWN ON THE 1854 USGS SURVEY.

- PLAN REFERENCES:
- "MASTER SITE PLAN OF: MERRILL'S MARINE TERMINAL, DANFORTH AND WEST COMMERCIAL STREETS PORTLAND, MAINE FOR: MERRILL INDUSTRIES, INC."
 - PLAN OF PROPERTY IN PORTLAND, MAINE MADE FOR MERRILL'S MARINE TERMINAL, EXISTING CONDITIONS PLAN BY H.I. AND E.C. JORDAN - SURVEYORS, DATED DECEMBER 18, 1989 AND STAMPED BY JOHN P. MCGONIGLE, JR., PLS 356.
 - PLAN AND PROFILE OF "20" MAIN UNDER VETERAN'S BRIDGE AT MERRILL'S COAL CO." PLAN BY PORTLAND WATER DISTRICT, 225 DOUGLASS STREET, PORTLAND, MAINE 04104. LAST REV. DATE 3/20/89. THE EASEMENT FOR THE PORTLAND WATER DISTRICT WATER MAIN IS RECORDED AT THE CUMBERLAND COUNTY REGISTRY OF DEEDS IN BOOK 8013, PAGE 72.
 - "RIGHT-OF-WAY AND TRACK MAP PORTLAND TERMINAL OPERATED BY THE PORTLAND TERMINAL COMPANY" DATED JUNE 30, 1916 REVISED MARCH, 1954 SHEET V-1-D/1.
 - "RIGHT-OF-WAY AND TRACK MAP PORTLAND TERMINAL OPERATED BY THE PORTLAND TERMINAL COMPANY" SUB SHEET DATED JUNE 30, 1916, SHEET V-1-D/1-A.
 - "RIGHT-OF-WAY AND TRACK MAP PORTLAND & OGDENSBURG RY. OWNED & OPERATED BY THE PORTLAND TERMINAL COMPANY" DATED JUNE 30, 1916, SHEET V-2/1.

- "RIGHT-OF-WAY AND TRACK MAP THE PORTLAND & OGDENSBURG RY. OWNED & OPERATED BY THE PORTLAND TERMINAL COMPANY" DATED JUNE 30, 1916, SHEET V-2/1A.
- "PLAN OF LAND IN PORTLAND, MAINE FOR MERRILL INDUSTRIES, INC." BY OWEN HASKELL, INC. DATED FEB. 2, 1978 REVISED THRU 7/31/78.
- "PLAN OF LAND IN PORTLAND, ME. FOR J.B. BROWN & SONS" BY OWEN HASKELL, INC. DATED 2/12/74 REVISED THRU 12/24/98.
- "PLAN OF PROPERTY IN PORTLAND, MAINE MADE FOR GULF OIL CORP." BY H. I. & E. C. JORDAN - SURVEYORS DATED JUNE 23, 1955 REVISED THRU 2 JULY, 1959.
- "PLAN OF PROPERTY BOUGHT OF Y.B. BROUIN BY THE BOSTON & MAINE RAILROAD, PORTLAND" DATED MAY 15TH, 1873 RECORDED IN PLAN BOOK 3 PAGES 38 AND 39.
- "COMPILED PLAN FOR THE DISCONTINUANCE OF PORTIONS OF DANFORTH ST. AND WEST COMMERCIAL ST. IN PORTLAND, MAINE" PREPARED FOR: MERRILL INDUSTRIES, INC. DATED APRIL 1981 PREPARED BY CE MAGUIRE, INC.
- "PLAN OF PROPERTY IN PORTLAND, MAINE MADE MERRILL INDUSTRIES, INC. DATED 9-22-80" BY H.I. & E.C. JORDAN SURVEYORS.

CERTIFICATION:
OWEN HASKELL, INC. CERTIFIES TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS MAP OR PLAN AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA, ACSM AND NSPS IN 1999. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA, NSPS, AND ACSM AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT PROPER FIELD PROCEDURES, INSTRUMENTATION, AND ADEQUATE SURVEY PERSONNEL WERE EMPLOYED IN ORDER TO ACHIEVE RESULTS COMPARABLE TO THOSE OUTLINED IN THE "MINIMUM ANGLE, DISTANCE AND CLOSURE REQUIREMENTS FOR SURVEY MEASUREMENTS WHICH CONTROL LAND BOUNDARIES FOR ALTA/ACSM LAND TITLE SURVEYS."



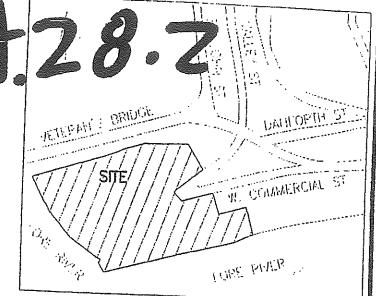
REV. 4	10-26-04	MISC. REVISIONS PER CLIENT, NOTE 1
REV. 3	09-28-04	REVISE LOT LINE TO FORE RIVER, ADD NOTE 5
REV. 2	09-18-04	MISC. REVISIONS PER CLIENT
REV. 1	01-07-03	ENCUMBRANCE LIST, DESCRIPTION, ETC.

LAND TITLE SURVEY
ON
DANFORTH AND WEST COMMERCIAL STREETS
PORTLAND, MAINE
MADE FOR RECORD OWNER:
MERRILL INDUSTRIES, INC.
601-A DANFORTH ST., PORTLAND, MAINE

OWEN HASKELL, INC.
18 CASCO ST., PORTLAND, ME 04101 (207) 774-0424

Drawn By	STI	Date	Job No.
Trace By	JLW	JAN. 27, 2003	2003-295P
Check By	WCS	Scale	Drwg. No.
Book No.	FILE	1" = 60'	1A

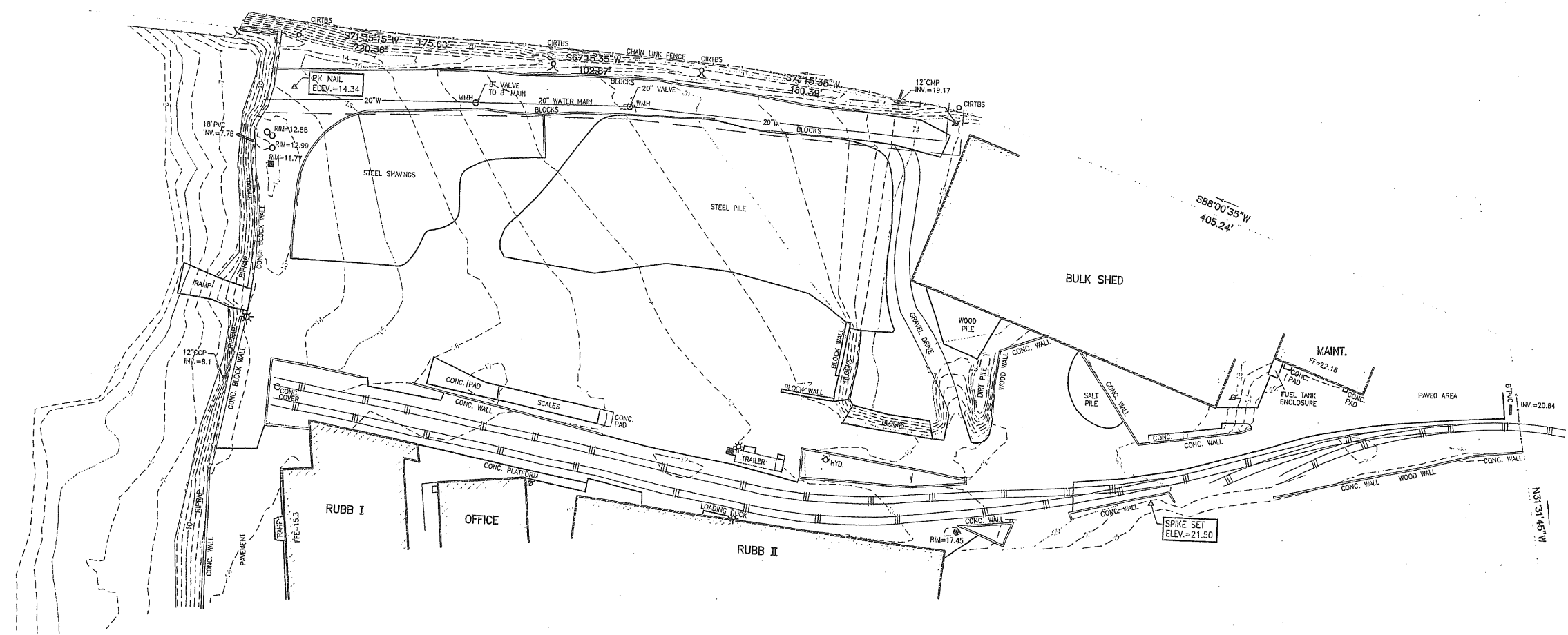
AH.28.2



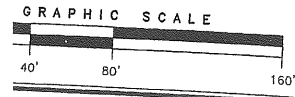
LOCATION MAP
N.T.S.



FORE RIVER



- LEGEND**
- CIRIBS
 - CAPPED IRON ROD TO BE SET
 - ⊙ WATER VALVE
 - ⊙ HYDRANT
 - ⊙ UTILITY POLE
 - ⊙ LIGHT POLE
 - ⊙ MANHOLE
 - ⊙ CATCH BASIN
 - ⊙ BOLLARD
 - FENCE



REV. 3	11-23-04	LOCATION/TOPO. REVISE SCALE TO 1"=40'
REV. 2	11-05-04	ADDED BENCHMARKS/REVISE MISC. ELEVATIONS
REV. 1	05-03-04	ADDED BOUNDARY AND EASEMENT LINES

TOPOGRAPHIC SURVEY
OFF
DANFORTH STREET, PORTLAND, MAINE
MADE FOR
MERRILL INDUSTRIES, INC.

OWEN HASKELL, INC.
16 CASCO ST., PORTLAND, ME 04101 (207) 774-0424

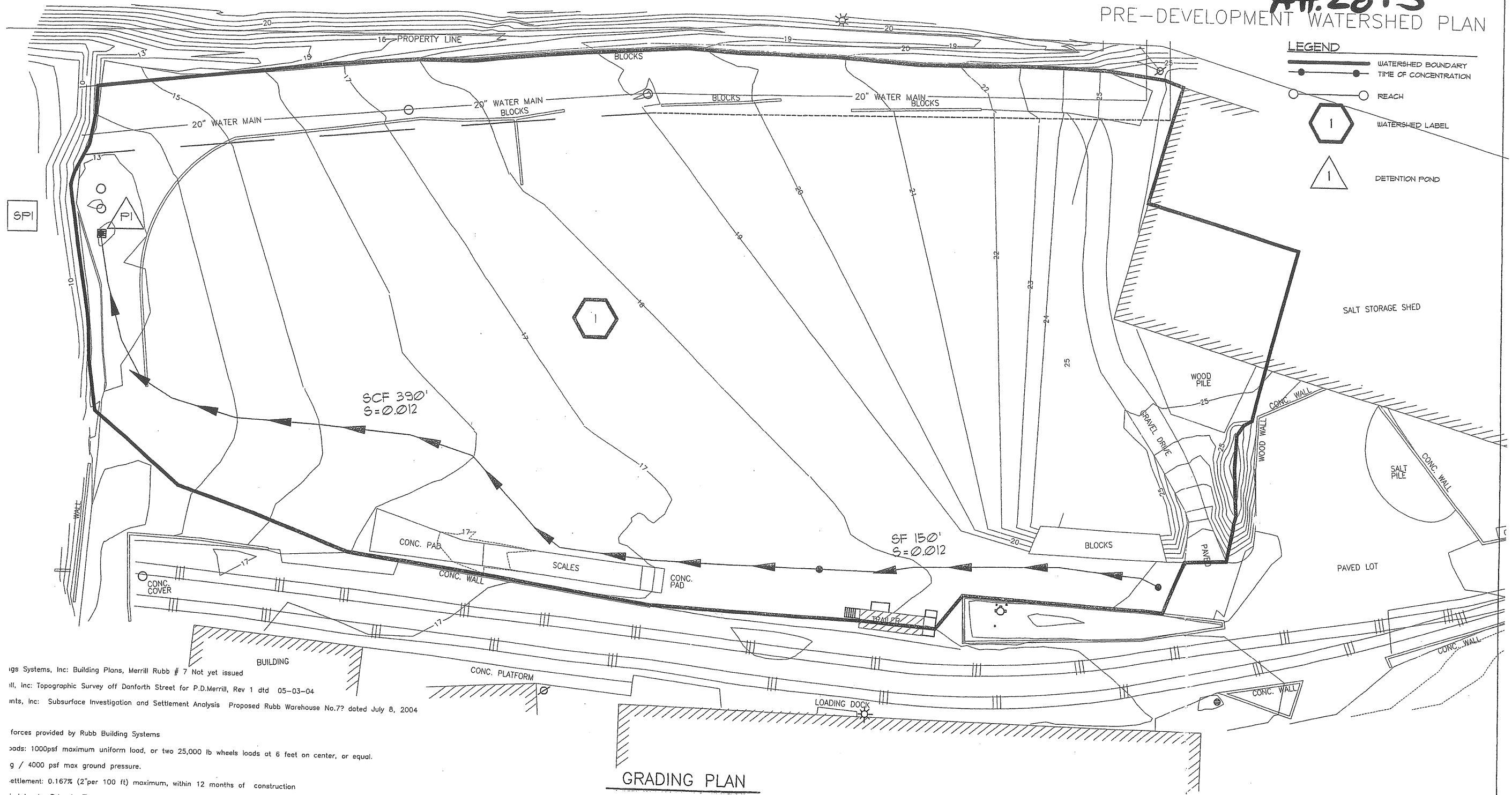
Drawn By	RES	Date	Job No.
Trace By	RWC	APRIL 26, 2004	2003-295 P
Check By	WCS	Scale	Drwg. No.
Book No.	989	1" = 40'	1

AH.28.3

PRE-DEVELOPMENT WATERSHED PLAN

LEGEND

- WATERSHED BOUNDARY
- TIME OF CONCENTRATION
- REACH
- ⬡ WATERSHED LABEL
- △ DETENTION POND



GRADING PLAN
SCALE: 1" = 20'

igs Systems, Inc: Building Plans, Merrill Rubb # 7 Not yet issued
 ill, Inc: Topographic Survey off Danforth Street for P.D.Merrill, Rev 1 dtd 05-03-04
 mts, Inc: Subsurface Investigation and Settlement Analysis Proposed Rubb Warehouse No.7? dated July 8, 2004

forces provided by Rubb Building Systems
 oads: 1000psf maximum uniform load, or two 25,000 lb wheels loads at 6 feet on center, or equal.
 g / 4000 psf max ground pressure.
 ettlement: 0.167% (2" per 100 ft) maximum, within 12 months of construction
 ind Load: Prior to Floor Slab, 50 mph. (cross-tie side walls as required in advance of greater wind speeds).
 nsions, and details not shown herein, refer to Rubb Plans (Ref 1A). Incorporate all Rubb Building Plan construction details, (anchor bolts, anchorages, base plates, etc.)
 overly of any discrepancies between these plans and Rubb Building Plans, Owen-Haskell Survey Plan, approved shop drawings, or existing conditions.
 3 with dependent work until discrepancies have been resolved by GEI.
 story materials in strict compliance with the manufacturer's recommendations.
 ited Materials. Grind and recycle excavated asphalt pavement. To the extent possible, re-cycle or blend excavated materials with other materials as required to specification/requirements for Granular Fill.
 and Proof-roll/Compact excavated surfaces to 120 psf density (min.) within 12 inches of surface (bottom of excavation).
 grade Prep: Control moisture and compact top layer of Fill (Type A) to 95% of ASTM D1557 maximum density. Compact using a vibratory roller of sufficient size leave the surface flat and smooth. Inspect the surface and drive any protruding stones flush with the top surface, prior to installing polyethylene.
 ge Prep: Install a double application of bond-breaker on all (concrete-concrete) contact surfaces in advance of slab placement. Install 1/2 inch compressible long wall edges in way of slab shrinkage movements. Except at Construction Joints do not connect Slabs to any adjacent concrete wall, slab, or structure.
 Cut Saw-cut joints where shown, and as detailed, within 6 hours of concrete placement. Fill Saw-cuts with an approved epoxy after 28 days (min.) cure.
 (Wind) Support: Prior to installing Floor Slab, Install Temporary Exterior Fill to Elevation 21.5' along North & South walls. In addition, if the Siding Walls are in place, winds in excess of 50 mph, cross tie the North & South walls with Cables or Tie Rods of appropriate size and spacing, at each Column.

PRELIMINARY PLANS
 * NOT FOR CONSTRUCTION *
 (PLANS FOR BUDGETING PURPOSES ONLY)

REV	DATE	BY	DESCRIPTION
WORK			
MERRILL MARINE TERMINAL MERRILL INDUSTRIES, RUBB BUILDING VII			
DRAWING			
GRADING PLAN			
SCALE:	AS SHOWN	SHEET	
DATE:	8/24/04	1 OF 5	
DRAWN:	BDM	GAGNON ENGINEERING INC. <small>Structural Consultants</small> 198 MAIN STREET GORHAM, MAINE 04038	
DESIGN:	RG		

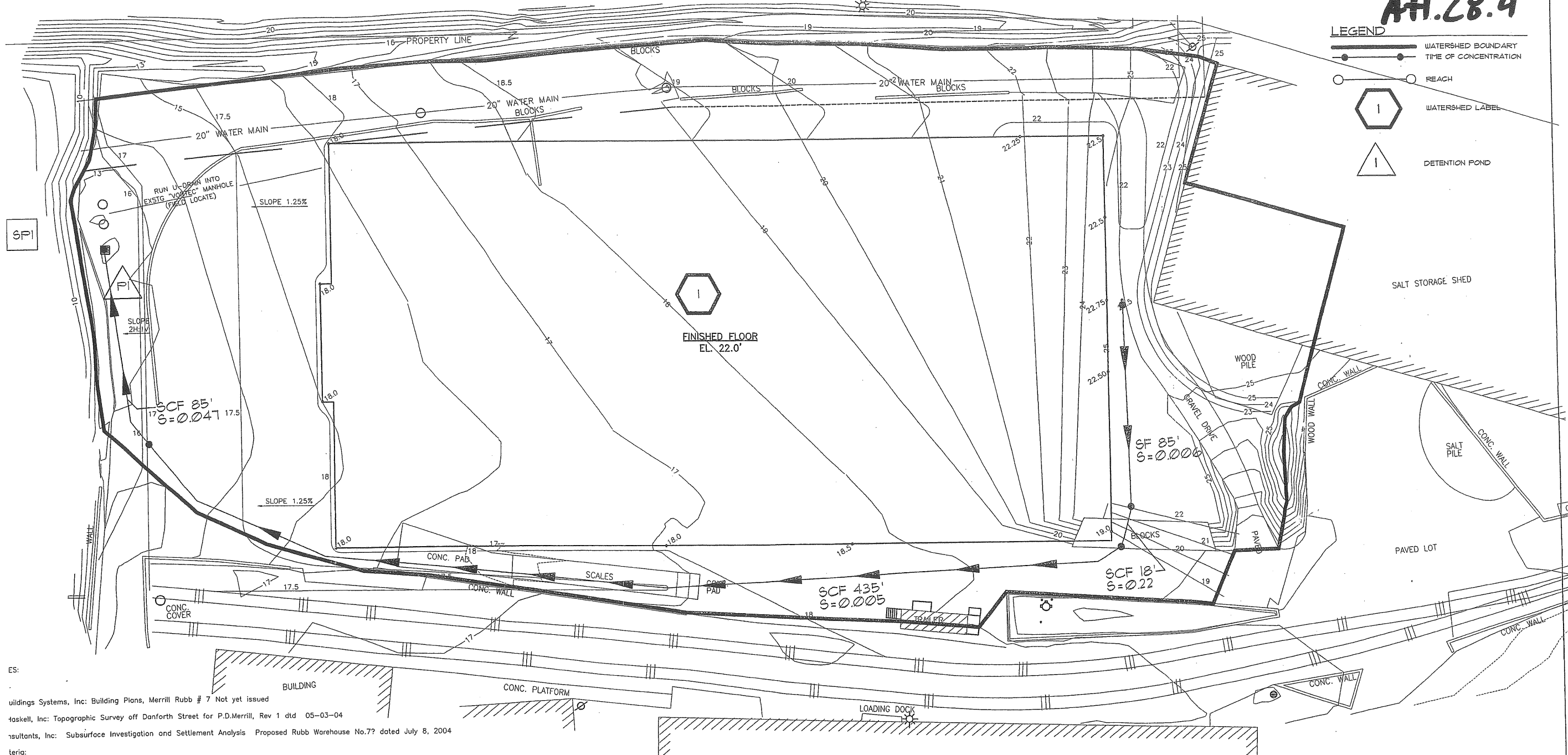
NOTE:
 UNCERTIFIED (MAINE P.E.) PLANS
 ARE FOR INFORMATION ONLY.

LATEST REVISION: 8/24/04

POST-DEVELOPMENT WATERSHED PLAN
AH.28.4

LEGEND

- WATERSHED BOUNDARY
- TIME OF CONCENTRATION
- REACH
- WATERSHED LABEL
- DETENTION POND



GRADING PLAN
 SCALE: 1" = 20'

- GRADING NOTES:**
- EXTERIOR GRADES:
 BACKFILL WITH TYPE "D" @ 92% COMPACT TO WITHIN 0.25' OF GRADING SHOWN. SEE (A) (5)
 TEMPORARY BACKFILL WITH TYPE "D" @ NOMINAL COMPACT AGAINST FOUNDATION WALL TO EL. 21.75'. SEE (A) (5)
 - INTERIOR GRADES:
 BACKFILL TO EL. 20.5' w/ GRANULAR FILL @ 92% COMPACT. } SEE (A) (5)
 BACKFILL TO EL. 21.0' w/ TYPE "D" @ 95% COMPACT. }
 BACKFILL TO EL. 21.5' w/ TYPE "A" @ 95% COMPACT. }

PRELIMINARY PLANS
NOT FOR CONSTRUCTION
 (PLANS FOR BUDGETING PURPOSES ONLY)

REV	DATE	BY	DESCRIPTION
WORK			
MERRILL MARINE TERMINAL MERRILL INDUSTRIES, RUBB BUILDING VII			
DRAWING			
GRADING PLAN			
SCALE: AS SHOWN	GAGNON ENGINEERING INC.		SHEET
DATE: 8/24/04	Structural Consultants 198 MAIN STREET GORHAM, MAINE 04038		1 OF 5
DRAWN: BDM			JOB
DESIGN: RG			407/1

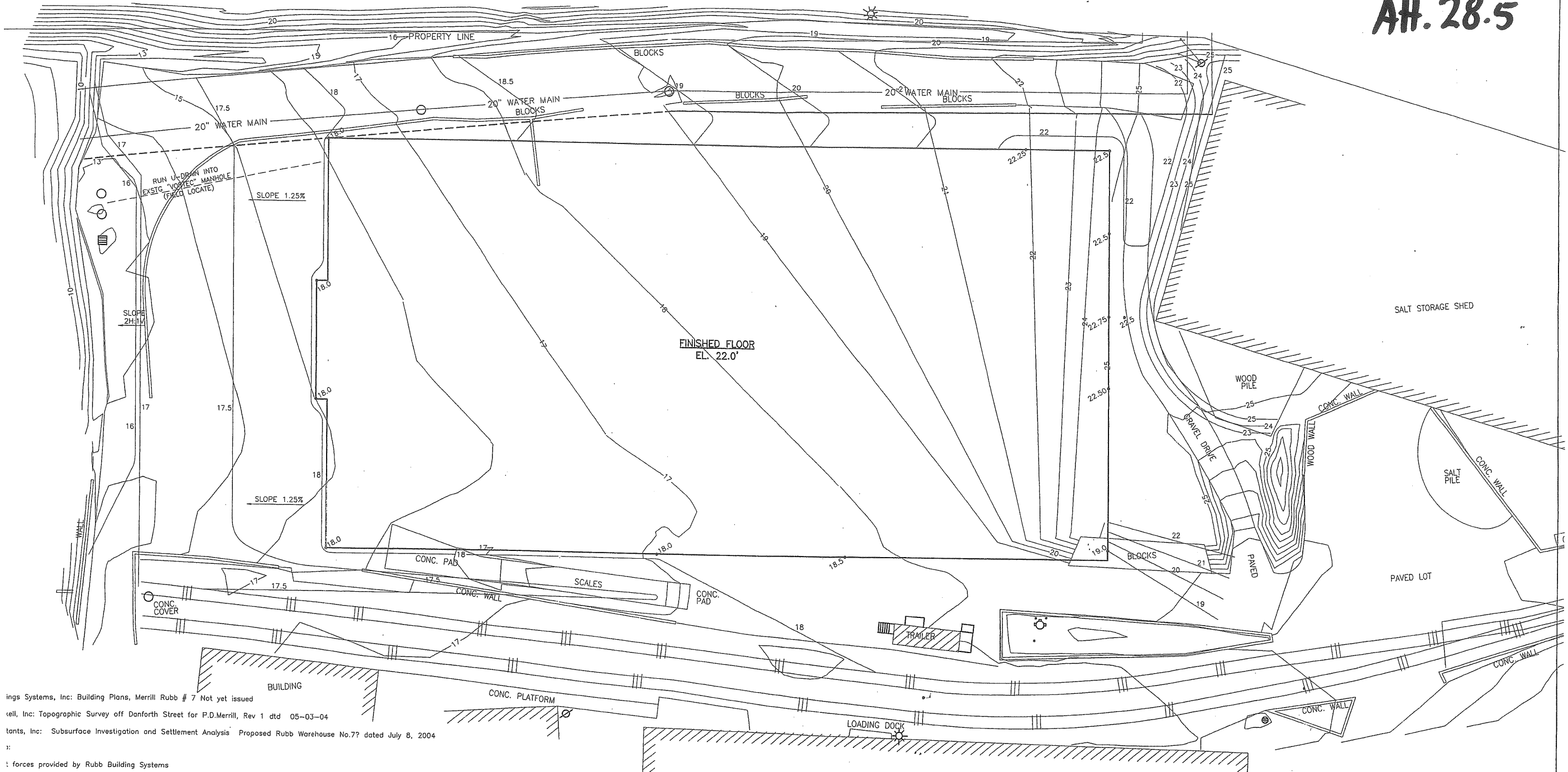
NOTE:
 UNCERTIFIED (MAINE P.E.) PLANS
 ARE FOR INFORMATION ONLY.

LATEST REVISION: 8/24/04

ES:
 Buildings Systems, Inc: Building Plans, Merrill Rubb # 7 Not yet issued
 Haskell, Inc: Topographic Survey off Danforth Street for P.D.Merrill, Rev 1 dtd 05-03-04
 Consultants, Inc: Subsurface Investigation and Settlement Analysis Proposed Rubb Warehouse No.7? dated July 8, 2004

Criteria:
 Bolt forces provided by Rubb Building Systems
 Live Loads: 1000psf maximum uniform load, or two 25,000 lb wheels loads at 6 feet on center, or equal.
 125sf avg / 4000 psf max ground pressure.
 Initial Settlement: 0.167% (2" per 100 ft) maximum, within 12 months of construction
 Wind Load: Prior to Floor Slab, 50 mph. (cross-tie side walls as required in advance of greater wind speeds).
 All dimensions, and details not shown herein, refer to Rubb Plans (Ref 1A). Incorporate all Rubb Building Plan construction details, (anchor bolts, anchorages, base plates, etc.)
 In the event of any discrepancies between these plans and Rubb Building Plans, Owen-Haskell Survey Plan, approved shop drawings, or existing conditions, proceed with dependent work until discrepancies have been resolved by GEI.
 All materials shall be of proprietary materials in strict compliance with the manufacturer's recommendations.
 Excavated Materials: Grind and recycle excavated asphalt pavement. To the extent possible, re-cycle or blend excavated materials with other materials as required to meet minimum specification/requirements for Granular Fill.
 Moisture and Proof-roll/Compact excavated surfaces to 120 psf density (min.) within 12 inches of surface (bottom of excavation).
 Sub-grade Prep: Control moisture and compact top layer of Fill (Type A) to 95% of ASTM D1557 maximum density. Compact using a vibratory roller of sufficient size to leave the surface flat and smooth. Inspect the surface and drive any protruding stones flush with the top surface, prior to installing polyethylene.
 Shrinkage Prep: Install a double application of bond-breaker on all (concrete-concrete) contact surfaces in advance of slab placement. Install 1/2 inch compressible serial along wall edges in way of slab shrinkage movements. Except at Construction Joints do not connect Slabs to any adjacent concrete wall, slab, or structure.
 Joints: Cut Saw-cut joints where shown, and as detailed, within 6 hours of concrete placement. Fill Saw-cuts with an approved epoxy after 28 days (min.) cure.
 Wind (Wind) Support: Prior to installing Floor Slab, Install Temporary Exterior Fill to Elevation 21.5' along North & South walls. In addition, if the Siding Walls are in place, brace walls in excess of 50 mph, cross tie the North & South walls with Cables or Tie Rods of appropriate size and spacing, at each Column.

AH. 28.5



GRADING PLAN

SCALE: 1" = 20'

- GRADING NOTES:**
- EXTERIOR GRADES:
 - BACKFILL WITH TYPE "D" @ 92% COMPACT TO WITHIN 0.25' OF GRADING SHOWN. SEE (A)
 - TEMPORARY BACKFILL WITH TYPE "D" @ NOMINAL COMPACT AGAINST FOUNDATION WALL TO EL. 21.75'. SEE (A)
 - INTERIOR GRADES:
 - BACKFILL TO EL. 20.5' w/ GRANULAR FILL @ 92% COMPACT.
 - BACKFILL TO EL. 21.0' w/ TYPE "D" @ 95% COMPACT.
 - BACKFILL TO EL. 21.5' w/ TYPE "A" @ 95% COMPACT. } SEE (B)

PRELIMINARY PLANS
*** NOT FOR CONSTRUCTION ***
 (PLANS FOR BUDGETING PURPOSES ONLY)

ings Systems, Inc: Building Plans, Merrill Rubb # 7 Not yet issued
 ell, Inc: Topographic Survey off Danforth Street for P.D.Merrill, Rev 1 dtd 05-03-04
 tants, Inc: Subsurface Investigation and Settlement Analysis Proposed Rubb Warehouse No.7? dated July 8, 2004
 :
 : forces provided by Rubb Building Systems
 Loads: 1000psf maximum uniform load, or two 25,000 lb wheels loads at 6 feet on center, or equal.
 vrg / 4000 psf max ground pressure.
 Settlement: 0.167% (2"per 100 ft) maximum, within 12 months of construction
 Wind Load: Prior to Floor Slab, 50 mph. (cross-tie side walls as required in advance of greater wind speeds).
 nensions, and details not shown herein, refer to Rubb Plans (Ref 1A). Incorporate all Rubb Building Plan construction details, (anchor bolts, anchorages, base plates, etc.)
 cover of any discrepancies between these plans and Rubb Building Plans, Owen-Haskell Survey Plan, approved shop drawings, or existing conditions.
 ed with dependent work until discrepancies have been resolved by GEI.
 rietary materials in strict compliance with the manufacturer's recommendations.
 vated Materials. Grind and recycle excavated asphalt pavement. To the extent possible, re-cycle or blend excavated materials with other materials as required to
 n specification/requirements for Granular Fill.
 e and Proof-roll/Compact excavated surfaces to 120 psf density (min.) within 12 inches of surface (bottom of excavation).
 -grade Prep: Control moisture and compact top layer of Fill (Type A) to 95% of ASTM D1557 maximum density. Compact using a vibratory roller of sufficient size
 leave the surface flat and smooth. Inspect the surface and drive any protruding stones flush with the top surface, prior to installing polyethylene.
 age Prep: Install a double application of bond-breaker on all (concrete-concrete) contact surfaces in advance of slab placement. Install 1/2 inch compressible
 along wall edges in way of slab shrinkage movements. Except at Construction Joints do not connect Slabs to any adjacent concrete wall, slab, or structure.
 s: Cut Saw-cut joints where shown, and as detailed, within 6 hours of concrete placement. Fill Saw-cuts with an approved epoxy after 28 days (min.) cure.
 l (Wind) Support: Prior to installing Floor Slab, Install Temporary Exterior Fill to Elevation 21.5' along North & South walls. In addition, if the Siding Walls are in place,
 f winds in excess of 50 mph, cross tie the North & South walls with Cables or Tie Rods of appropriate size and spacing, at each Column.

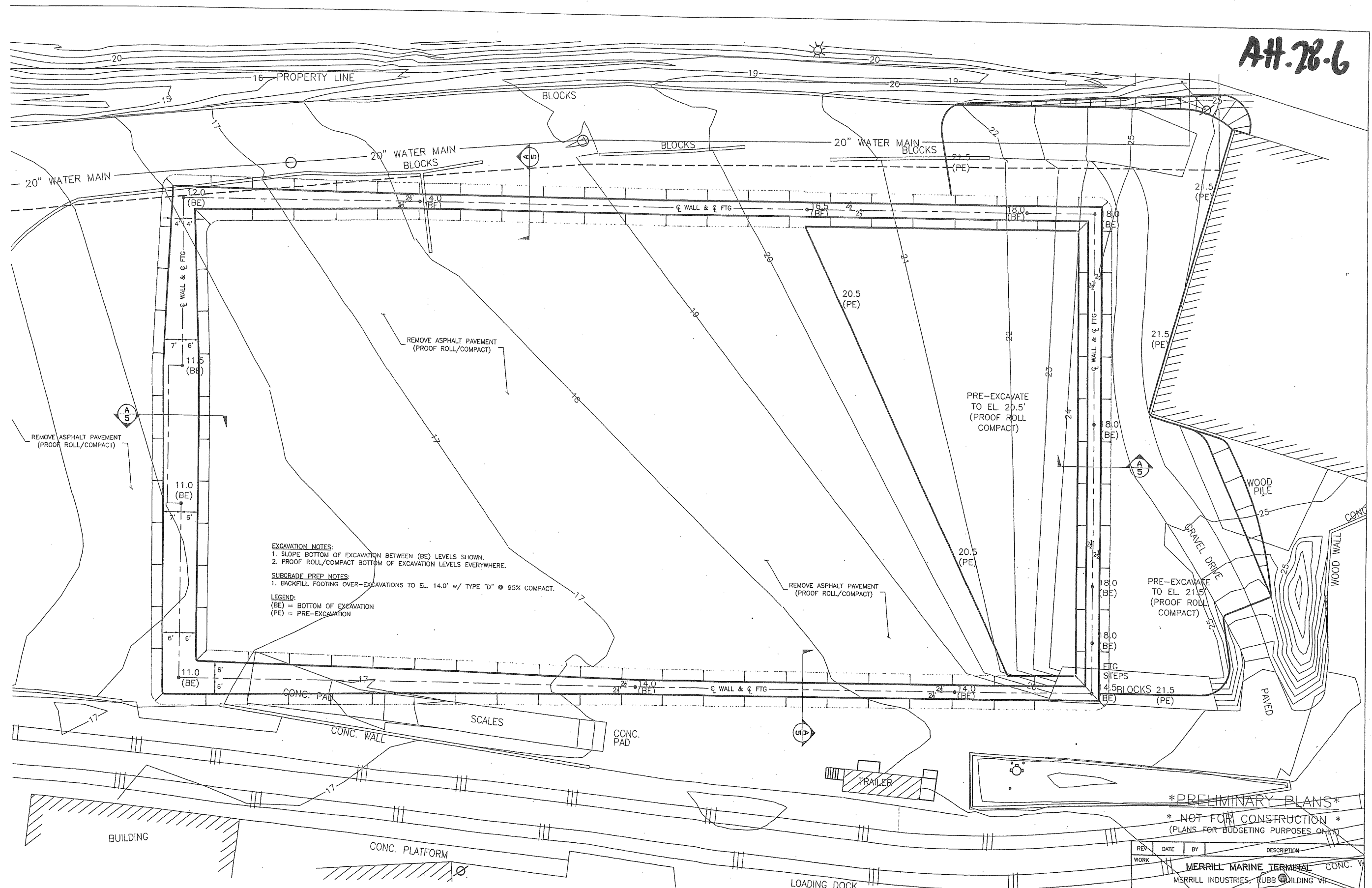
NOTE:
 UNCERTIFIED (MAINE P.E.) PLANS
 ARE FOR INFORMATION ONLY.

LATEST REVISION: 8/24/04

REV	DATE	BY	DESCRIPTION
WORK			
MERRILL MARINE TERMINAL MERRILL INDUSTRIES, RUBB BUILDING VII			
DRAWING			
GRADING PLAN			
SCALE:	AS SHOWN	SHEET	
DATE:	8/24/04	1 OF 5	
DRAWN:	BDM	JOB	
DESIGN:	RG	407/1	

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

AH.28.6



EXCAVATION NOTES:
 1. SLOPE BOTTOM OF EXCAVATION BETWEEN (BE) LEVELS SHOWN.
 2. PROOF ROLL/COMPACT BOTTOM OF EXCAVATION LEVELS EVERYWHERE.

SUBGRADE PREP NOTES:
 1. BACKFILL FOOTING OVER-EXCAVATIONS TO EL. 14.0' w/ TYPE "D" @ 95% COMPACT.

LEGEND:
 (BE) = BOTTOM OF EXCAVATION
 (PE) = PRE-EXCAVATION

EXCAVATION & SUBGRADE PREP

SCALE: 1" = 15'

NOTE:
 UNCERTIFIED (MAINE P.E.) PLANS
 ARE FOR INFORMATION ONLY.

LATEST REVISION: 8/24/04

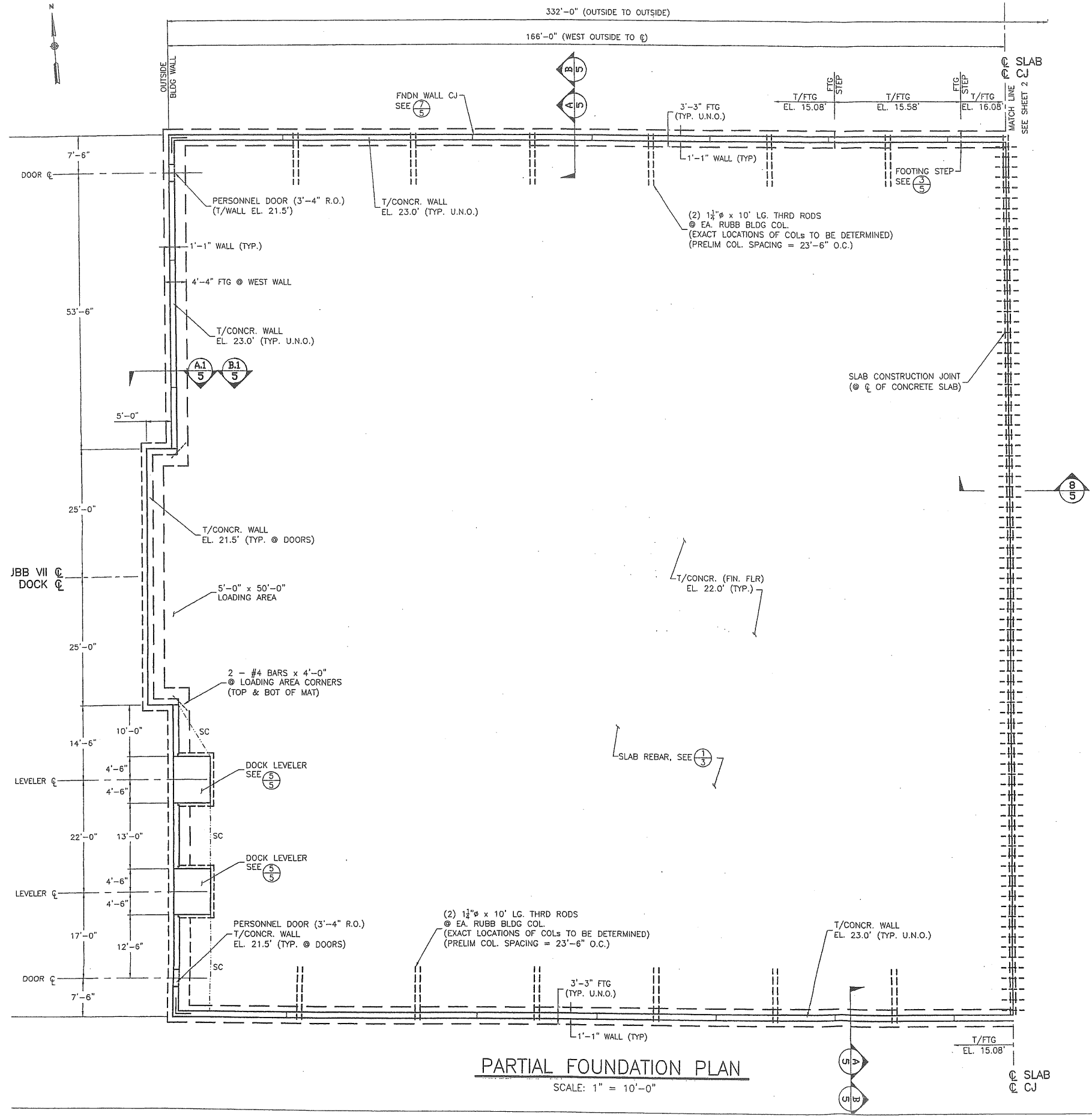
PRELIMINARY PLANS
*** NOT FOR CONSTRUCTION ***
 (PLANS FOR BUDGETING PURPOSES ONLY)

REV	DATE	BY	DESCRIPTION

WORK	MERRILL MARINE TERMINAL CONC.
	MERRILL INDUSTRIES, RUBB BUILDING VII
DRAWING	EXCAVATION & SUBGRADE PREP
SCALE:	AS SHOWN
DATE:	8/24/04
DRAWN:	BDM
DESIGN:	RG
SHEET	2 OF 5
JOB	407/1

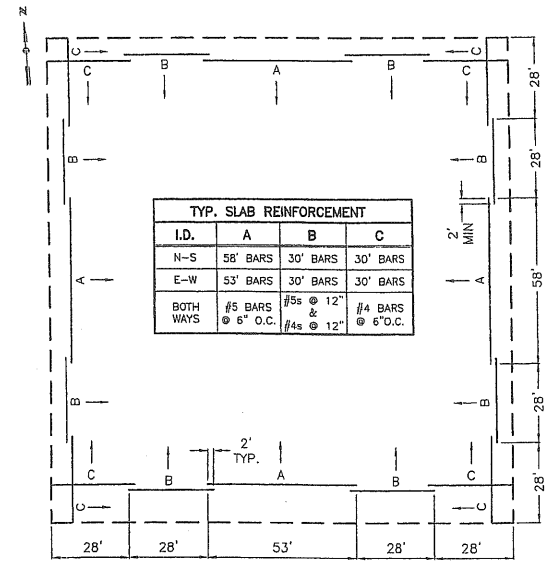
GAGNON ENGINEERING INC.
 Structural Consultants
 199 MAIN STREET
 GORHAM, MAINE 04038

AH.28.7



- MATERIALS**
- Earthwork:
 - Granular Fill: MDOT Granular Borrow, spec. 703.19, 9 inch maximum size, 10% maximum #200
 - Type D Fill: MDOT Aggregate for Sub-base, spec. 703.06 b, Type D.
 - Type A Fill: MDOT Aggregate for Base, spec. 703.06 a, Type A.

Note: For all three Fill Materials, Submit Laboratory Test Results for Gradations (ASTM D422), and Moisture Density (ASTM D1557) Submit In-Place Density Tests, performed by Qualified Independent Testing Agency.
 - Rigid Insulation: Rigid Cellular Polystyrene (RCPS), R5.0 min per inch, ASTM C578, Dow brand "Styrofoam" or approved equal.
 - Polyethylene: Plastic Water Vapor Retarder for use under concrete slabs. ASTM E1745, smooth, 10 mils thick, two layers, lap adjacent sheets and stagger joints. Americover (brand) Vapor Block VB10, or approved equal.
 - Concrete & Reinforcing Bars: see Concrete Notes
 - Steel Plates & Shapes: ASTM A36, Galvanized, unless noted otherwise, or approved equal.



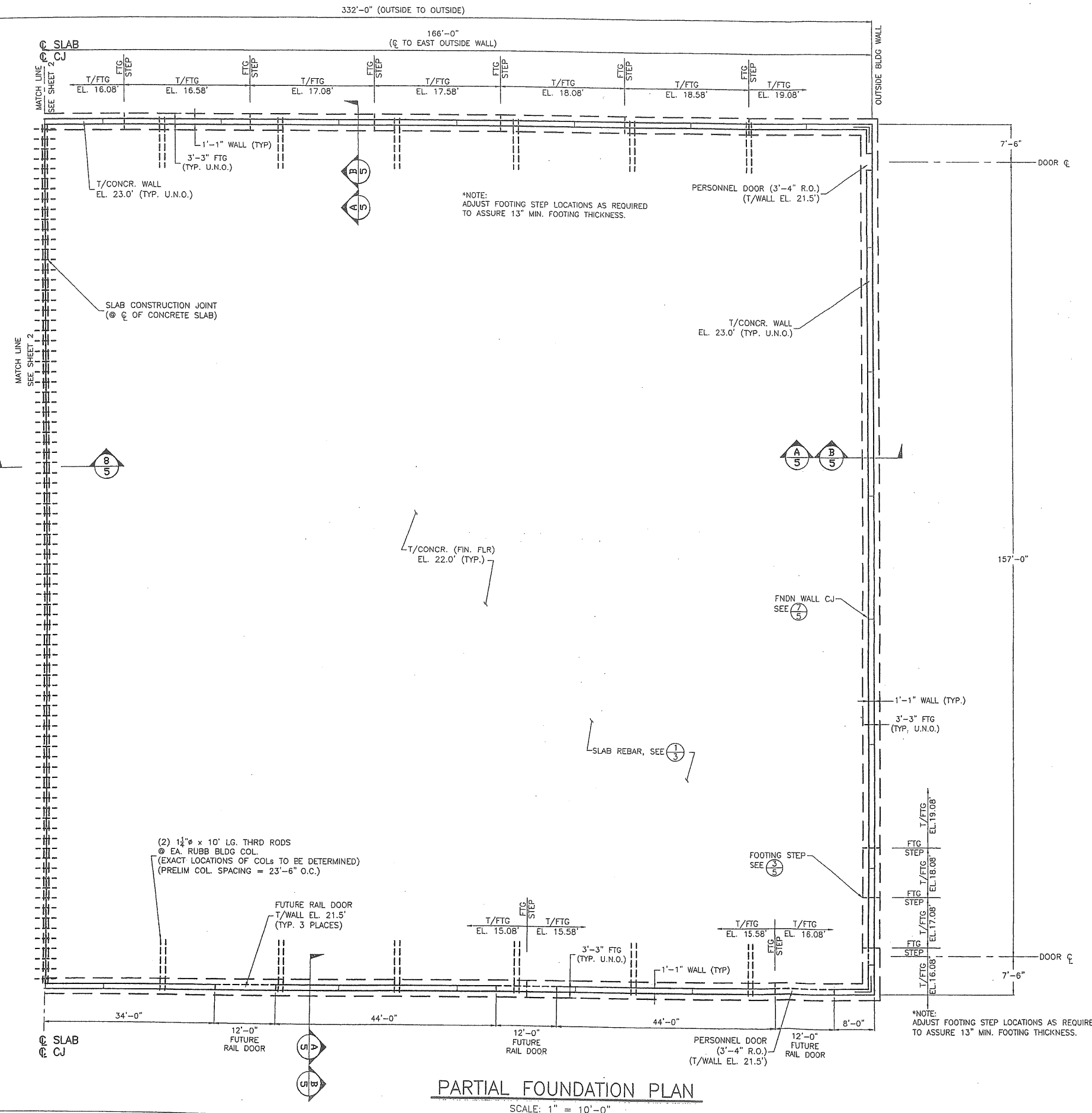
DETAIL 1
 SCALE: 1" = 30'-0"
 SLAB REBAR: SIZE, SPACING, & LAYOUT
 (165' x 170' AREA, TYP. OF 2)

PRELIMINARY PLANS
*** NOT FOR CONSTRUCTION ***
 (PLANS FOR BUDGETING PURPOSES ONLY)

REV	DATE	BY	DESCRIPTION
WORK: MERRILL MARINE TERMINAL MERRILL INDUSTRIES, RUBB BUILDING VII			
DRAWING: PARTIAL FOUNDATION PLAN (WEST)			
SCALE: AS SHOWN	GAGNON ENGINEERING INC.		SHEET 3 OF 5
DATE: 8/24/04	198 MAIN STREET GORHAM, MAINE 04038		JOB 407/1
DRAWN: BDM	DESIGN: RG		

NOTE:
 UNCERTIFIED (MAINE P.E.) PLANS
 ARE FOR INFORMATION ONLY.
 LATEST REVISION: 8/24/04

AH 28.8



- CONCRETE NOTES:**
- Concrete Shall meet the following requirements:

Location	Compr. Stren	% Air	Slump (Plain/MRWR)	Notes & Additives
Footings	3000 psi	5%-7%	6" / 10"	
Walls	3500 psi	5%-7%	3 1/2" / 5 1/2"	Mid-Range Water Reducer (MRWR) As required
Floor	3500 psi	2 1/2%-3 1/2%	3 1/2" / 5 1/2"	MRWR as req'd, Grace Shrinkage Reducing Agent UCO Sealer-Hardener
 - Concrete Supply. Concrete shall be supplied by MDOT-approved commercial batching plant(s) or other, if pre-approved by the Engineer.
 - Contractor shall engage the services of an approved Concrete Testing Agency to perform compliance tests on fresh and hardened Concrete in accordance with ASTM C31 & C39, respectively. Sampling, Air content, and Slump tests shall be performed in accordance with appropriate ASTM standards.
 - Unless otherwise directed, one test cylinder shall be broken at 7 days, and two cylinders at 28 days, from each sampled truckload. The fourth cylinder shall be held in reserve at the testing laboratory for possible further testing at the discretion of the Engineer, for the duration of the project. Sample the first, last, and intermediate truckloads (15 % min), randomly selected by the Engineer.
 - Engineer may direct improvements in the concrete mix design (for no additional compensation to the Contractor) on the basis on early concrete placement 7-day compressive strength tests, or other test results. Improvements shall be made in all subsequent concrete.
 - Forms: Plywood-faced or Steel-faced, smooth finish quality, free of wood-grain and form-panel joint lines. Forms shall be securely interconnected so as not to become mis-aligned during concrete placement. Forms shall be adequately cross-tied to resist concrete pressures without form-panel distortions or excessive deflections between ties. Formwork must be secured and braced so as to remain plumb and maintain horizontal alignments during concrete placement. Chamfer forms (3/4" x 3/4") at exposed corners and exposed edges, except as otherwise detailed.
 - Imbedded Form Ties shall include a 1/2" minimum break-back that will be filled with portland-cement grout (or mortar, as appropriate) immediately after form removal.
 - Hardened Concrete Tolerances.

Footings: 1"± on width, height, and top elevation.

Walls: 1/8"± on width (thickness) and top elevation. 1/16"± per foot on plumbness. 3/16"± per 10' on horizontal alignment at top of wall.

Slab-On-Grade: 1/8"± per 10' on top finished surface
 - Reinforcing Bars: Grade 60 deformed bars (ASTM A615).
 - Smooth Dowels: ASTM A307, A36, or better.
 - Bars Splices shall be avoided to the extent possible. Minimum lap-splice lengths shall be 36 bar diameters for plain bars, unless otherwise noted.
 - Reinforcement shall be stored & protected, placed, supported, secured, and fastened according to MDOT specifications.
 - Concrete placed within formed boundaries or designated construction joints shall be placed in a continuous operation. All concrete shall meet maximum slump (and other) requirements and be installed without excessive dropping or other segregation-producing methods. All concrete will be consolidated using appropriately-sized, mechanical, high-frequency, internal vibrators.
 - Place, finish, and cure slab-on-grade concrete using only generally-accepted, good-practice methods and operations, particularly with respect to the timing of critical finishing techniques. Except as otherwise specified or detailed on the Plans, follow the recommendations of ACI 302.1R "Guide for Concrete Floor and Slab Construction". The slab-on-grade is classified as a Class 5 (ACI 302.1R), single-course, industrial floor, with a float and hard-steel trowel finish.
 - Forming forms may be removed after 24 hours provided the footing is immediately backfilled to the top of the footing. Wall forms may be removed after 48 hours of placement provided an approved chemical curing agent is immediately applied to exposed surfaces, or the surfaces are kept continuously wet by approved water-curing methods; otherwise, wall forms shall remain in place at least 7 days after concrete placement.
 - The Slab-on-Grade surface shall be water-cured by keeping the concrete continuously wet with fresh water for at least 7 days after concrete placement.
 - No vehicular loads will be allowed on the Slab-on-Grade within 7 days of concrete placement, and only light (passenger) vehicle will be allowed on the slab within 7 days thereafter (14 days of concrete placement).
 - Additives. Dose, Mix, Apply, and otherwise install Concrete Admixtures, Sealers, Hardeners, Curing Agents, etc. in strict compliance with the respective manufacturer's recommendations.

PRELIMINARY PLANS
*** NOT FOR CONSTRUCTION ***
 (PLANS FOR BUDGETING PURPOSES ONLY)

REV	DATE	BY	DESCRIPTION

WORK: MERRILL MARINE TERMINAL
MERRILL INDUSTRIES, RUBB BUILDING VII

DRAWING: PARTIAL FOUNDATION PLAN (EAST)

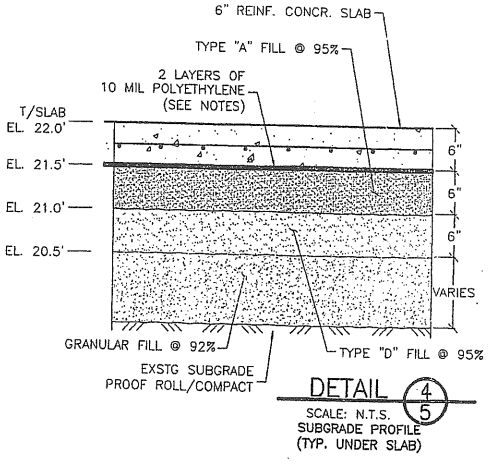
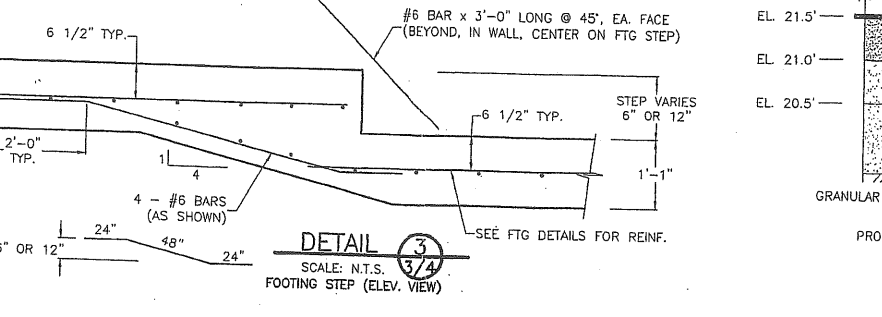
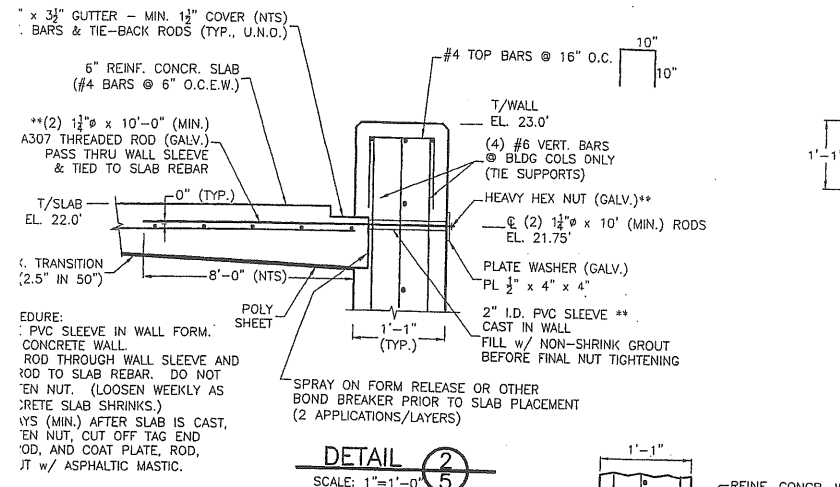
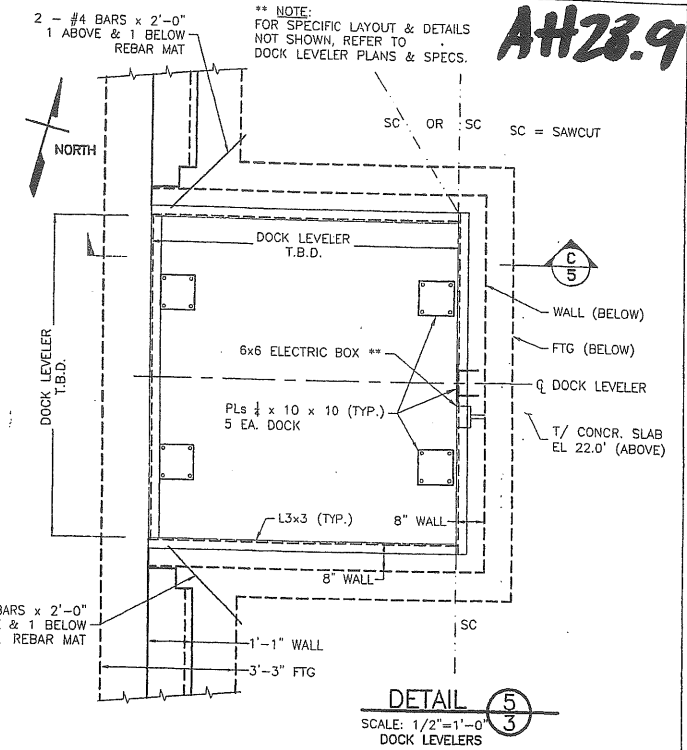
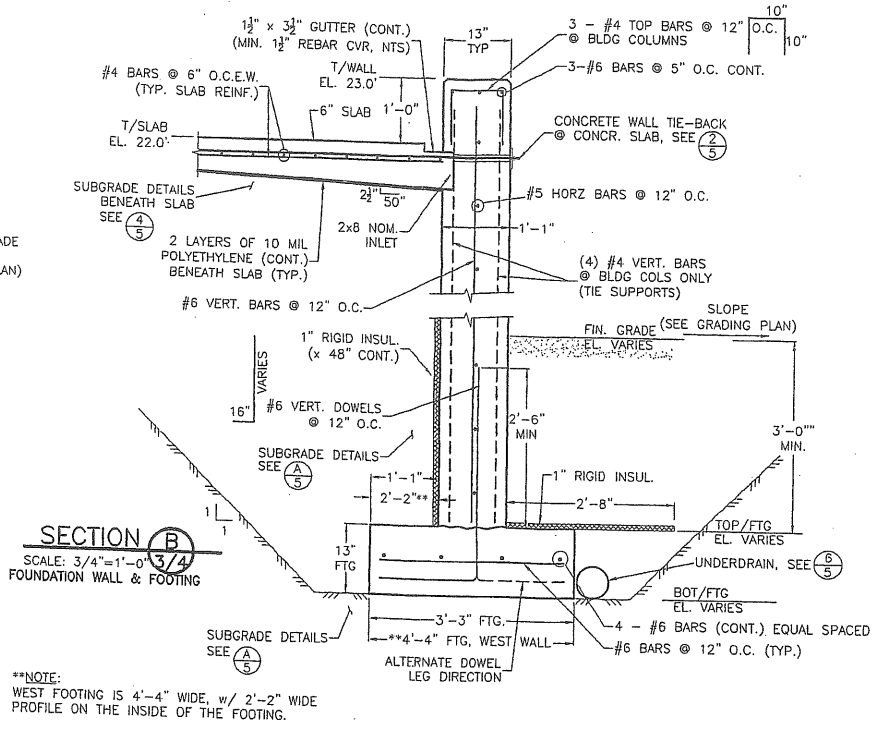
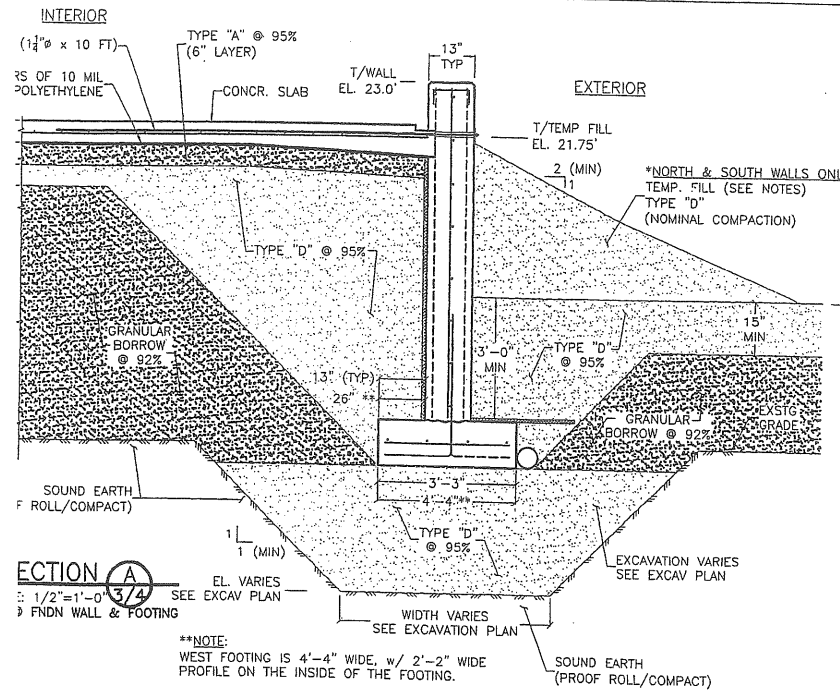
SCALE: AS SHOWN	 198 MAIN STREET GORHAM, MAINE 04038	SHEET
DATE: 8/24/04		4 OF 5
DRAWN: BDM		JOB
DESIGN: RC		407/1

LATEST REVISION: 8/24/04

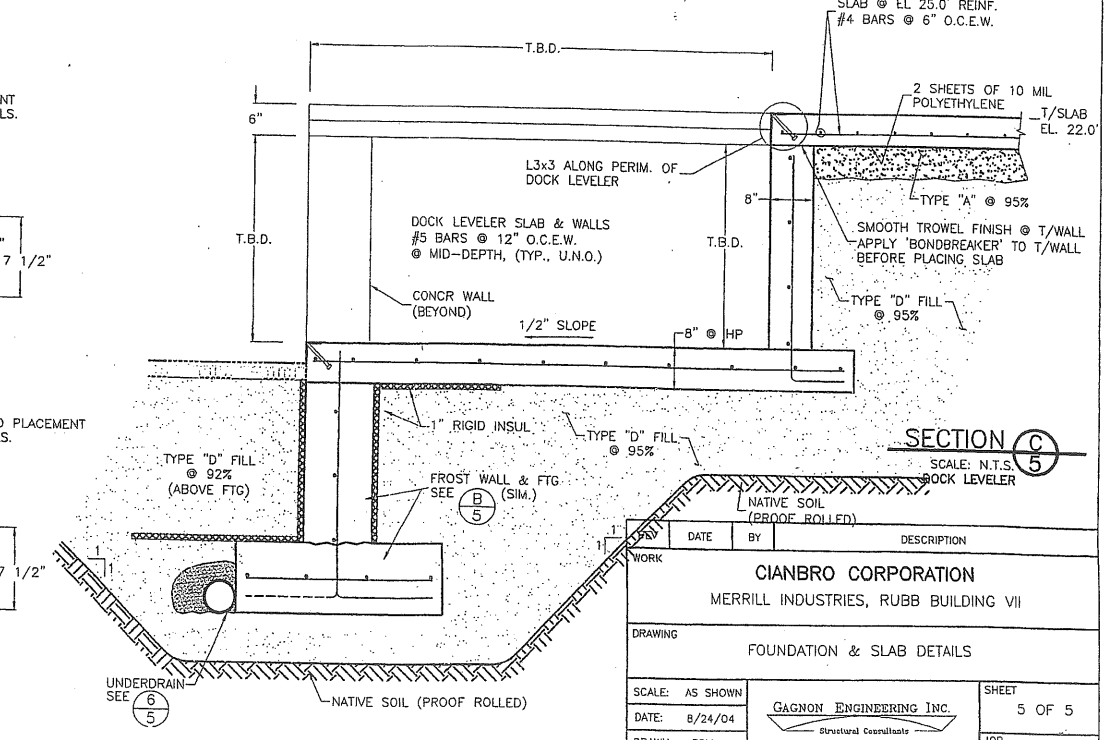
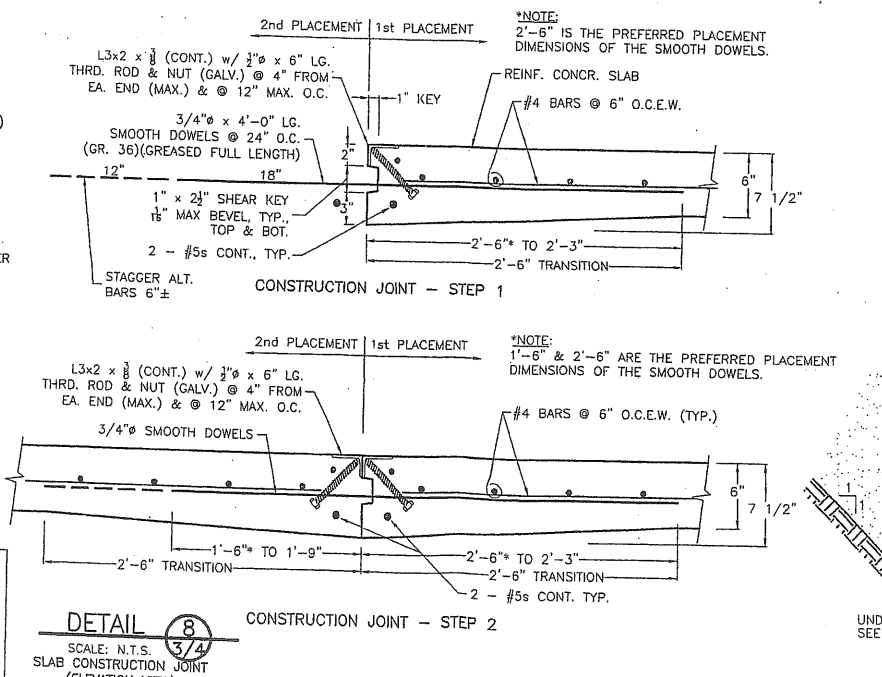
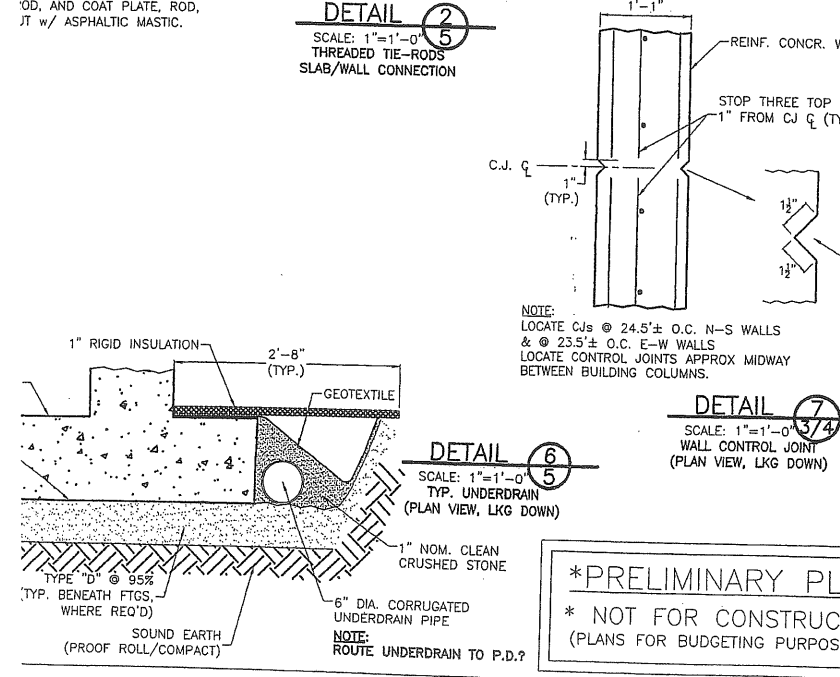
PARTIAL FOUNDATION PLAN
 SCALE: 1" = 10'-0"

NOTE:
 UNCERTIFIED (MAINE P.E.) PLANS
 ARE FOR INFORMATION ONLY.

AH28.9



SUBGRADE LEGEND			
PLAN DESIGNATION	MDOT DESIGNATION	SPECIFICATION	SPECIAL NOTES
TYPE A FILL	AGGREGATE FOR BASE	703.06a TYPE A	---
TYPE D FILL	AGGREGATE FOR SUB-BASE	703.06b TYPE B	---
GRANULAR FILL	GRANULAR BORROW	703.19	10% MAX No. 200 9" MAX SIZE



PRELIMINARY PLANS
* NOT FOR CONSTRUCTION *
(PLANS FOR BUDGETING PURPOSES ONLY)

DATE	BY	DESCRIPTION

CIAMBRO CORPORATION
MERRILL INDUSTRIES, RUBB BUILDING VII

FOUNDATION & SLAB DETAILS

SCALE: AS SHOWN
DATE: 8/24/04
DRAWN: BDM
DESIGN: RG

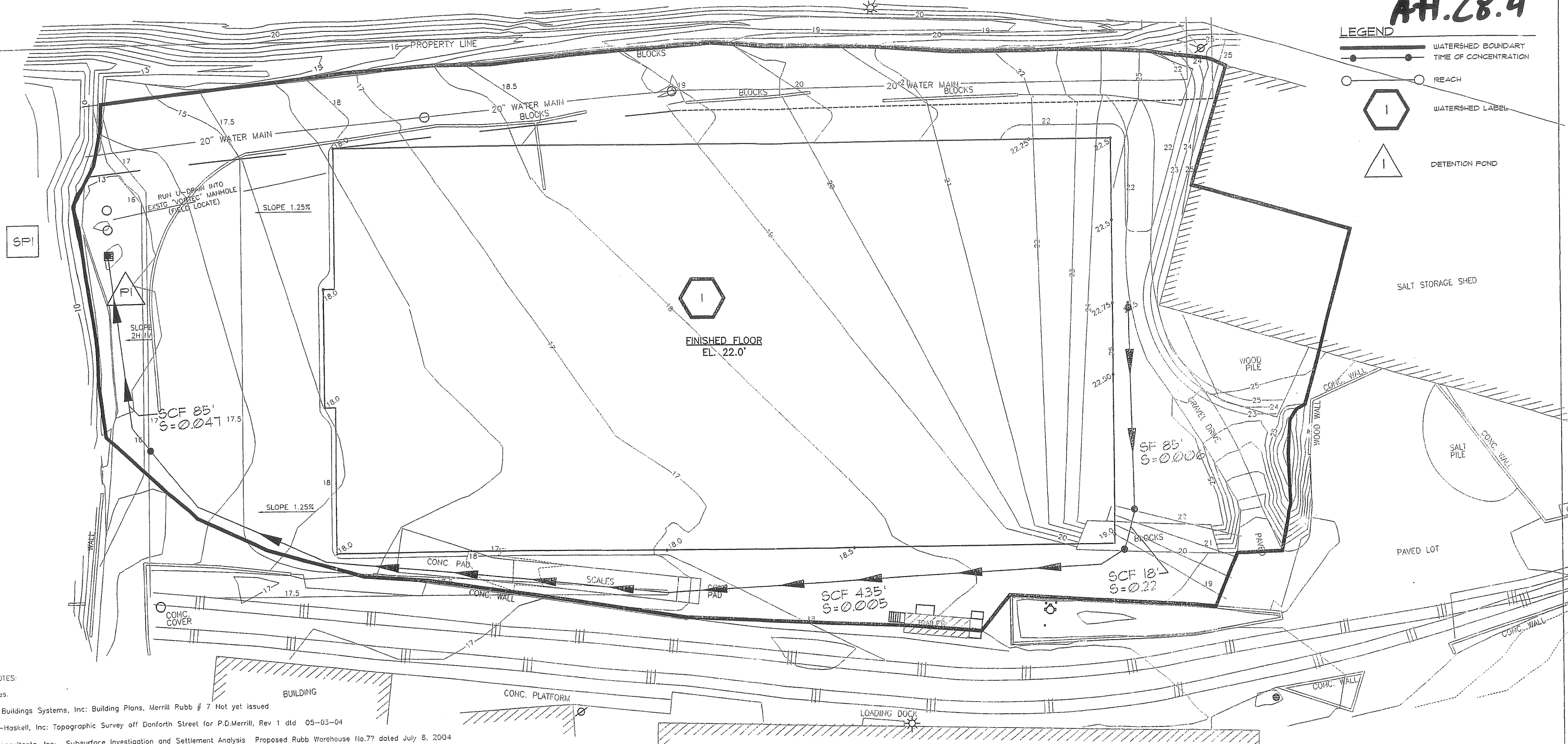
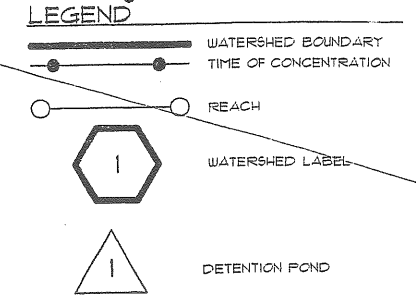
GAGNON ENGINEERING INC.
198 MAIN STREET
GORHAM, MAINE 04038

SHEET 5 OF 5
JOB 407/1

LATEST REVISION: 8/24/04

POST-DEVELOPMENT WATERSHED PLAN

AH.28.4



GRADING PLAN
SCALE: 1" = 20'

- GRADING NOTES:**
- EXTERIOR GRADES:
BACKFILL WITH TYPE "D" @ 92% COMPACT TO WITHIN 0.25' OF GRADING SHOWN. SEE (A/5)
TEMPORARY BACKFILL WITH TYPE "D" @ NOMINAL COMPACT AGAINST FOUNDATION WALL TO EL. 21.75'. SEE (A/5)
 - INTERIOR GRADES:
BACKFILL TO EL. 20.5' w/ GRANULAR FILL @ 92% COMPACT. } SEE (A/5)
BACKFILL TO EL. 21.0' w/ TYPE "D" @ 95% COMPACT. }
BACKFILL TO EL. 21.5' w/ TYPE "A" @ 95% COMPACT. }

PRELIMINARY PLANS
*** NOT FOR CONSTRUCTION ***
(PLANS FOR BUDGETING PURPOSES ONLY)

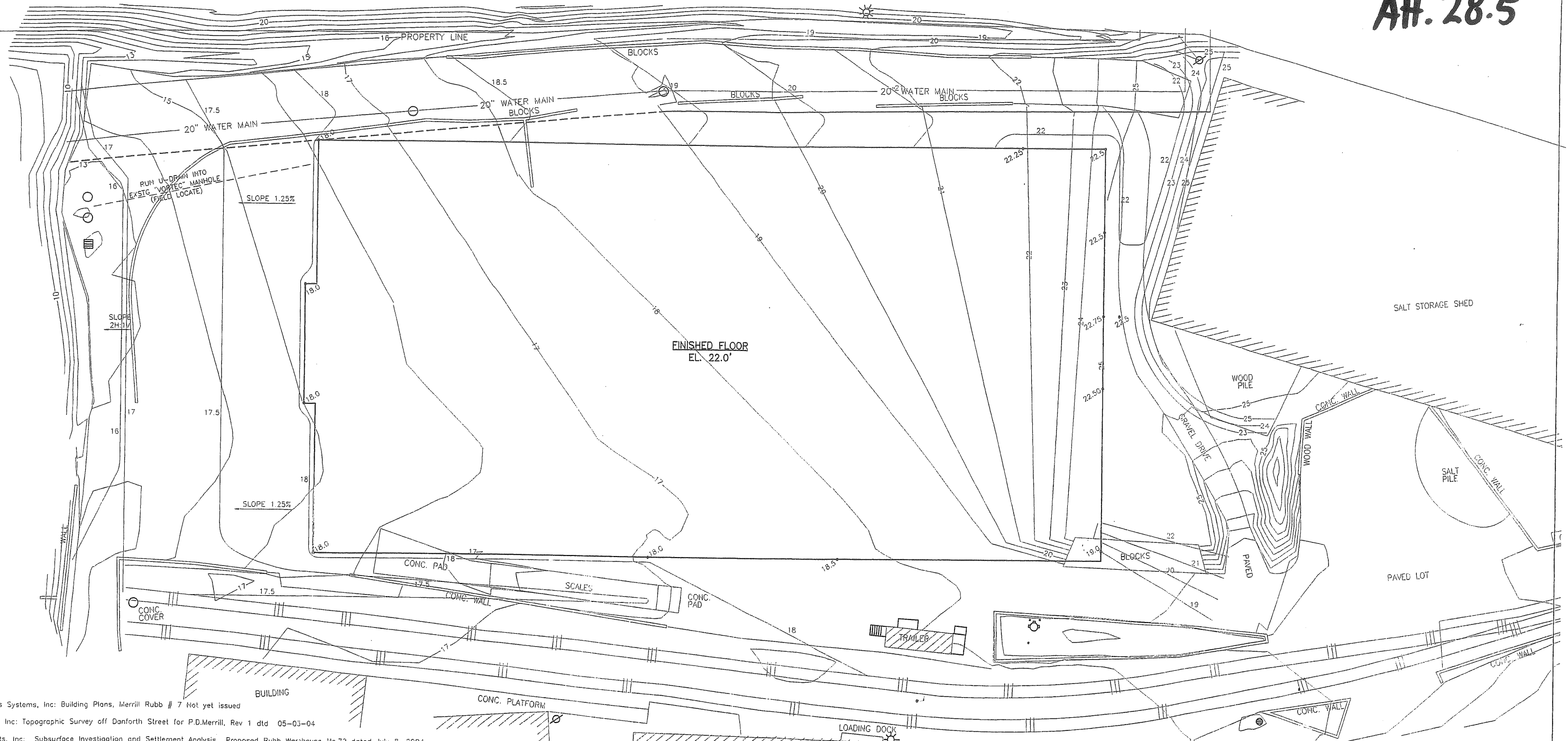
- GENERAL NOTES:**
- Refer to drawings for details.
 - Refer to Rubb Buildings Systems, Inc: Building Plans, Merrill Rubb # 7 Not yet issued
 - Refer to Owen-Haskell, Inc: Topographic Survey off Danforth Street for P.D.Merrill, Rev 1 dtd 05-03-04
 - Refer to GEI Consultants, Inc: Subsurface Investigation and Settlement Analysis Proposed Rubb Warehouse No.7? dated July 8, 2004
 - Design Criteria:
 - Anchor Bolt forces provided by Rubb Building Systems
 - Floor Live Loads: 1000psf maximum uniform load, or two 25,000 lb wheels loads at 6 feet on center, or equal.
 - 2000 psf avg / 4000 psf max ground pressure.
 - Differential Settlement: 0.167% (2" per 100 ft) maximum, within 12 months of construction
 - Temporary Wind Load: Prior to Floor Slab, 50 mph. (cross-tie side walls as required in advance of greater wind speeds).
 - Layout, dimensions, and details not shown herein, refer to Rubb Plans (Ref 1A). Incorporate all Rubb Building Plan construction details. (anchor bolts, anchorages, base plates, etc.)
 - Report the discovery of any discrepancies between these plans and Rubb Building Plans, Owen-Haskell Survey Plan, approved shop drawings, or existing conditions.
 - Do not proceed with dependent work until discrepancies have been resolved by GEI.
 - Install all proprietary materials in strict compliance with the manufacturer's recommendations.
 - Re-cycle Excavated Materials: Grind and recycle excavated asphalt pavement. To the extent possible, re-cycle or blend excavated materials with other materials as required to meet minimum specification/requirements for Granular Fill.
 - Control moisture and Proof-roll/Compact excavated surfaces to 120 psf density (min.) within 12 inches of surface (bottom of excavation).
 - Floor Slab Sub-grade Prep: Control moisture and compact top layer of Fill (Type A) to 95% of ASTM D1557 maximum density. Compact using a vibratory roller of sufficient size and energy to leave the surface flat and smooth. Inspect the surface and drive any protruding stones flush with the top surface, prior to installing polyethylene.
 - Concrete Shrinkage Prep: Install a double application of bond-breaker on all (concrete-concrete) contact surfaces in advance of slab placement. Install 1/2 inch compressible joint material along wall edges in way of slab shrinkage movements. Except at Construction Joints do not connect Slabs to any adjacent concrete wall, slab, or structure.
 - Saw-cut Joints: Cut Saw-cut joints where shown, and as detailed, within 6 hours of concrete placement. Fill Saw-cuts with an approved epoxy after 28 days (min.) cure.

REV	DATE	BY	DESCRIPTION
WORK: MERRILL MARINE TERMINAL MERRILL INDUSTRIES, RUBB BUILDING VII			
DRAWING: GRADING PLAN			
SCALE: AS SHOWN			SHEET: 1 OF 5
DATE: 8/24/04			JOB:

NOTE:
UNCERTIFIED (MAINE P.E.) PLANS
ARE FOR INFORMATION ONLY.

GAGNON ENGINEERING INC.
Structural Consultants

Att. 28.5



GRADING PLAN

SCALE: 1" = 20'

GRADING NOTES:

- EXTERIOR GRADES:
 - BACKFILL WITH TYPE "D" @ 92% COMPACT TO WITHIN 0.25' OF GRADING SHOWN. SEE (3)
 - TEMPORARY BACKFILL WITH TYPE "D" @ NOMINAL COMPACT AGAINST FOUNDATION WALL TO EL. 21.75'. SEE (5)
- INTERIOR GRADES:
 - BACKFILL TO EL. 20.5' w/ GRANULAR FILL @ 92% COMPACT.
 - BACKFILL TO EL. 21.0' w/ TYPE "D" @ 95% COMPACT. } SEE (4)
 - BACKFILL TO EL. 21.5' w/ TYPE "A" @ 95% COMPACT.

PRELIMINARY PLANS

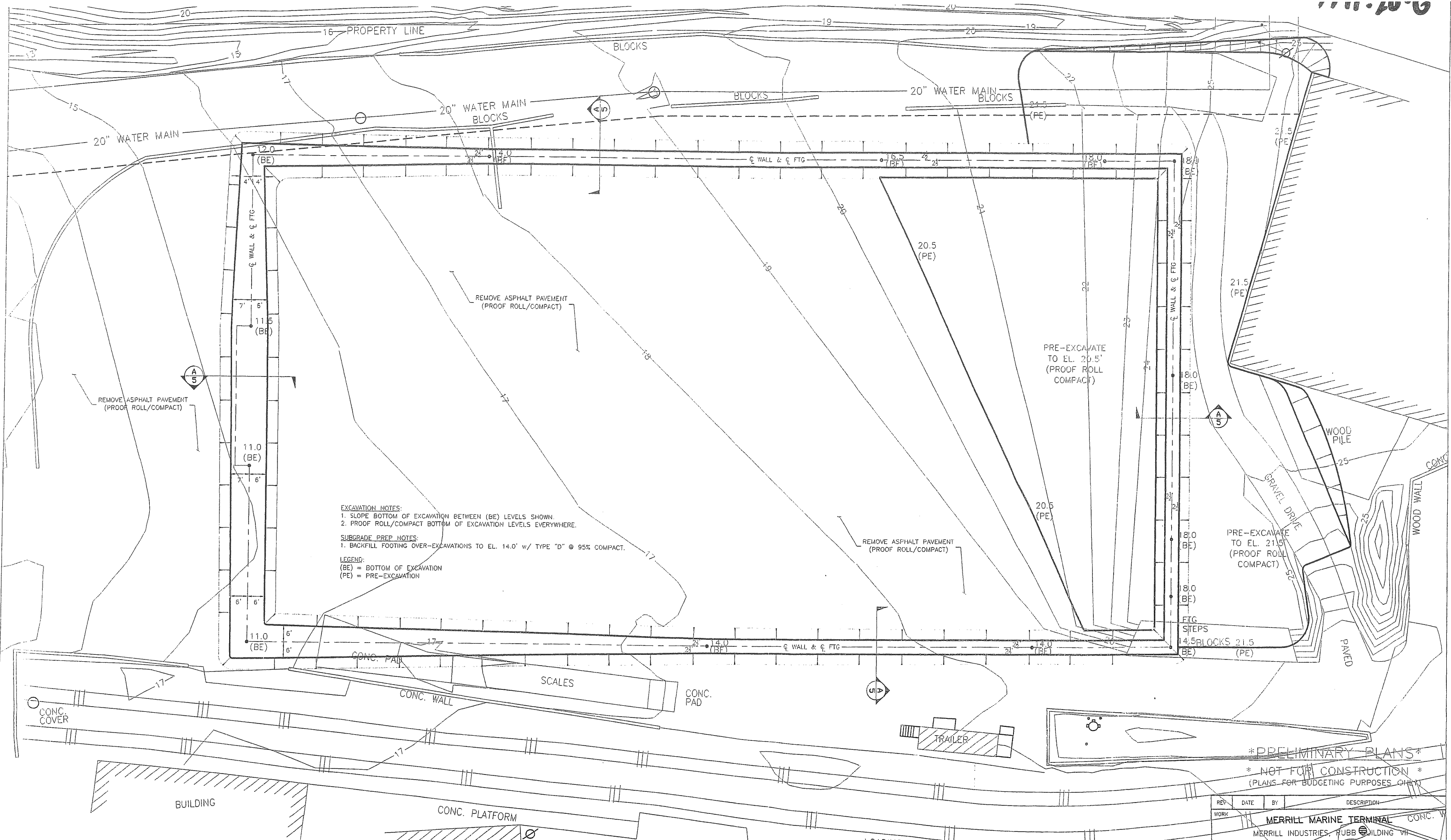
*** NOT FOR CONSTRUCTION ***
(PLANS FOR BUDGETING PURPOSES ONLY)

REV	DATE	BY	DESCRIPTION
WORK:	MERRILL MARINE TERMINAL MERRILL INDUSTRIES, RUBB BUILDING VII		
DRAWING:	GRADING PLAN		
SCALE:	AS SHOWN		SHEET

NOTE:
UNCERTIFIED (MAIN P.E.) PLANS

NOTES:

- Buildings Systems, Inc: Building Plans, Merrill Rubb # 7 Not yet issued
- Owen-Haskell, Inc: Topographic Survey off Danforth Street for P.D.Merrill, Rev 1 dtd 05-03-04
- Geotechnical Consultants, Inc: Subsurface Investigation and Settlement Analysis Proposed Rubb Warehouse No.7? dated July 8, 2004
- Design Criteria:
 - Anchor Bolt forces provided by Rubb Building Systems
 - Live Loads: 1000psi maximum uniform load, or two 25,000 lb wheels loads at 6 feet on center, or equal.
 - 30 psf avg / 4000 psf max ground pressure.
 - Differential Settlement: 0.167% (2" per 100 ft) maximum, within 12 months of construction
 - Temporary Wind Load: Prior to Floor Slab, 50 mph. (cross-tie side walls as required in advance of greater wind speeds).
- Material, dimensions, and details not shown herein, refer to Rubb Plans (Ref 1A). Incorporate all Rubb Building Plan construction details, (anchor bolts, anchorages, base plates, etc.)
- In the discovery of any discrepancies between these plans and Rubb Building Plans, Owen-Haskell Survey Plan, approved shop drawings, or existing conditions, proceed with dependent work until discrepancies have been resolved by GEI.
- All proprietary materials in strict compliance with the manufacturer's recommendations.
- Excavated Materials: Grind and recycle excavated asphalt pavement. To the extent possible, re-cycle or blend excavated materials with other materials as required to meet minimum specification/requirements for Granular Fill.
- moisture and Proof-roll/Compact excavated surfaces to 120 psf density (min.) within 12 inches of surface (bottom of excavation).
- Sub-grade Prep: Control moisture and compact top layer of Fill (Type A) to 95% of ASTM D1557 maximum density. Compact using a vibratory roller of sufficient size to leave the surface flat and smooth. Inspect the surface and drive any protruding stones flush with the top surface, prior to installing polyethylene.
- Shrinkage Prep: Install a double application of bond-breaker on all (concrete-concrete) contact surfaces in advance of slab placement. Install 1/2 inch compressible material along wall edges in way of slab shrinkage movements. Except at Construction Joints do not connect Slabs to any adjacent concrete wall, slab, or structure.
- Joints: Cut Saw-cut joints where shown, and as detailed, within 6 hours of concrete placement. Fill Saw-cuts with an approved epoxy after 28 days (min.) cure.



EXCAVATION NOTES:
 1. SLOPE BOTTOM OF EXCAVATION BETWEEN (BE) LEVELS SHOWN.
 2. PROOF ROLL/COMPACT BOTTOM OF EXCAVATION LEVELS EVERYWHERE.

SUBGRADE PREP NOTES:
 1. BACKFILL FOOTING OVER-EXCAVATIONS TO EL. 14.0' w/ TYPE "D" @ 95% COMPACT.

LEGEND:
 (BE) = BOTTOM OF EXCAVATION
 (PE) = PRE-EXCAVATION

EXCAVATION & SUBGRADE PREP
 SCALE: 1" = 15'

NOTE:
 UNCERTIFIED (MAINE P.E.) PLANS
 ARE FOR INFORMATION ONLY.

LATEST REVISION: 8/24/04

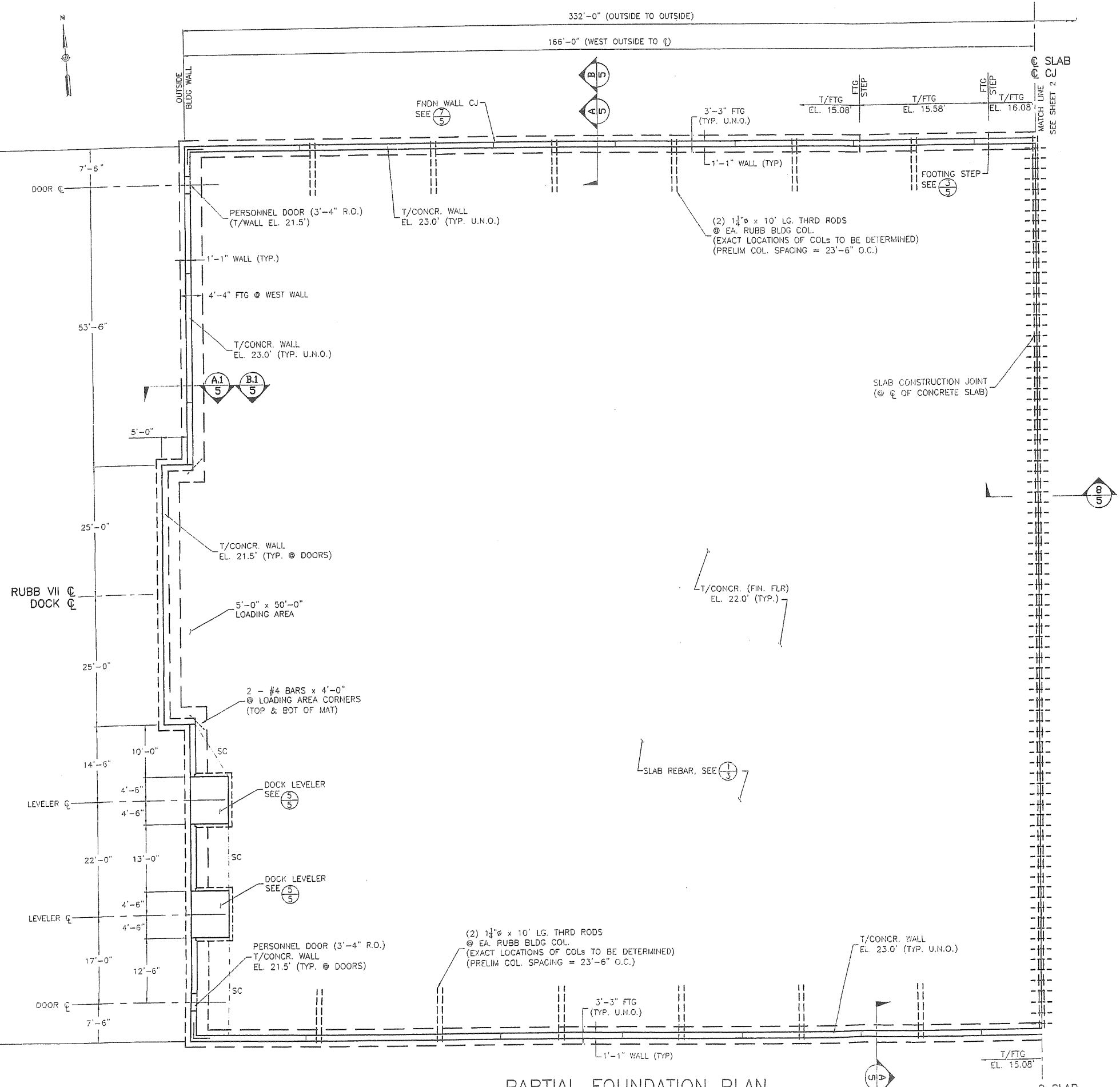
PRELIMINARY PLANS
*** NOT FOR CONSTRUCTION ***
 (PLANS FOR BUDGETING PURPOSES ONLY)

REV.	DATE	BY	DESCRIPTION

WORK	MERRILL MARINE TERMINAL CONC. V
	MERRILL INDUSTRIES, RUBB BUILDING VII
DRAWING	EXCAVATION & SUBGRADE PREP
SCALE:	AS SHOWN
DATE:	8/24/04
DRAWN:	BDH
DESIGN:	RC
SHEET	2 OF 5
JOB	407/1

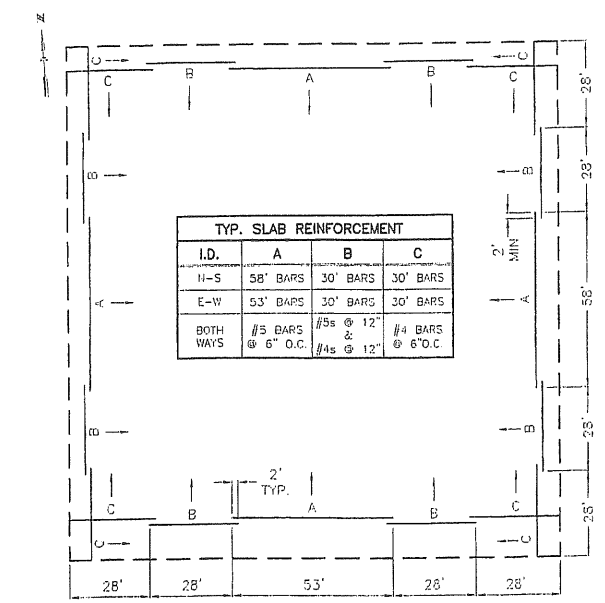
GAGNON ENGINEERING INC.
 Structural Consultants
 198 MAIN STREET
 GORHAM, MAINE 04038

AH.28.7



MATERIALS

- Earthwork:
 - A) Granular Fill: MDOT Granular Borrow, spec. 703.19, 9 inch maximum size, 10% maximum #200
 - B) Type D Fill: MDOT Aggregate for Sub-base, spec.703.06 b, Type D.
 - C) Type A Fill: MDOT Aggregate for Base, spec.703.06 a, Type A.
- Rigid Insulation: Rigid Cellular Polystyrene (RCPS), R5.0 min per inch, ASTM C578, Dow brand "Styrofoam" or approved equal.
- Polyethylene: Plastic Water Vapor Retarder for use under concrete slabs. ASTM E1745, smooth, 10 mils thick, two layers, lap adjacent sheets and stagger joints. Americover (brand) Vapor Block VB10, or approved equal.
- Concrete & Reinforcing Bars: see Concrete Notes
- Steel Plates & Shapes: ASTM A36, Galvanized, unless noted otherwise, or approved equal.



DETAIL 1
SCALE: 1" = 30'-0" 3/4"
SLAB REBAR: SIZE, SPACING, & LAYOUT
(155' x 170' AREA, TYP. OF 2)

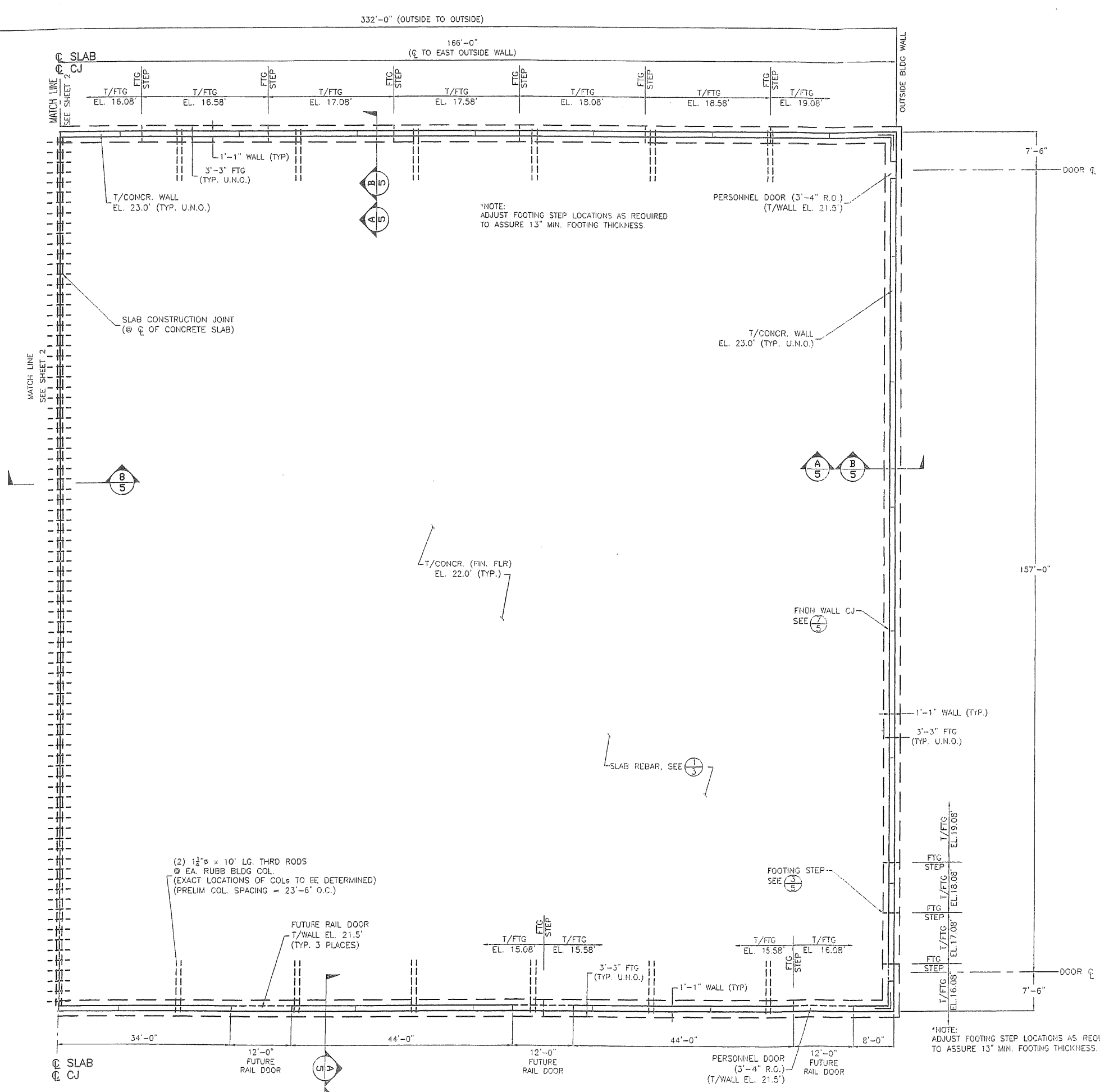
PRELIMINARY PLANS
* NOT FOR CONSTRUCTION *
(PLANS FOR BUDGETING PURPOSES ONLY)

REV	DATE	BY	DESCRIPTION
WORK: MERRILL MARINE TERMINAL MERRILL INDUSTRIES, RUBB BUILDING VII			
DRAWING: PARTIAL FOUNDATION PLAN (WEST)			
SCALE: AS SHOWN	GAGNON ENGINEERING INC.		SHEET 3 OF 5
DATE: 5/24/04			

NOTE:
UNCERTIFIED (MAINE P.E.) PLANS
& RF FOR INFORMATION ONLY.

PARTIAL FOUNDATION PLAN

AH 28.8



CONCRETE NOTES:

- Concrete shall meet the following requirements:

Location	Compr. Stren	% Air	Slump (Plain/MRWR)	Notes & Additives
Footings	3000 psi	5%-7%	6" / 10"	
Walls	3500 psi	5%-7%	3 1/2" / 5 1/2"	Mid-Range Water Reducer (MRWR) As required
Floor	3500 psi	2 1/2%-3 1/2%	3 1/2" / 5 1/2"	MRWR as req'd, Grace Shrinkage Reducing Agent UCO Sealer-Hardener
- Concrete Supply. Concrete shall be supplied by MDOT-approved commercial batching plant(s) or other, if pre-approved by the Engineer.
- Contractor shall engage the services of an approved Concrete Testing Agency to perform compliance tests on fresh and hardened Concrete in accordance with ASTM C31 & C39, respectively. Sampling, Air content, and Slump tests shall be performed in accordance with appropriate ASTM standards.
- Unless otherwise directed, one test cylinder shall be broken at 7 days, and two cylinders at 28 days, from each sampled truckload. The fourth cylinder shall be held in reserve at the testing laboratory for possible further testing at the discretion of the Engineer, for the duration of the project. Sample the first, last, and intermediate truckloads (15% min), randomly selected by the Engineer.
- Engineer may direct improvements in the concrete mix design (for no additional compensation to the Contractor) on the basis of early concrete placement 7-day compressive strength tests, or other test results. Improvements shall be made in all subsequent concrete.
- Forms: Plywood-faced or Steel-faced, smooth finish quality, free of wood-grain and form-panel joint lines. Forms shall be securely interconnected so as not to become mis-aligned during concrete placement. Forms shall be adequately cross-tied to resist concrete pressures without form-panel distortions or excessive deflections between ties. Formwork must be secured and braced so as to remain plumb and maintain horizontal alignments during concrete placement. Chamfer forms (3/4" x 3/4") at exposed corners and exposed edges, except as otherwise detailed.
- Imbedded Form Ties shall include a 1/2" minimum break-back that will be filled with portland-cement grout (or mortar, as appropriate) immediately after form removal.
- Hardened Concrete Tolerances.

Footings: 1"± on width, height, and top elevation.

Walls: 1/8"± on width (thickness) and top elevation, 1/16"± per foot on plumbness, 3/16"± per 10' on horizontal alignment at top of wall.

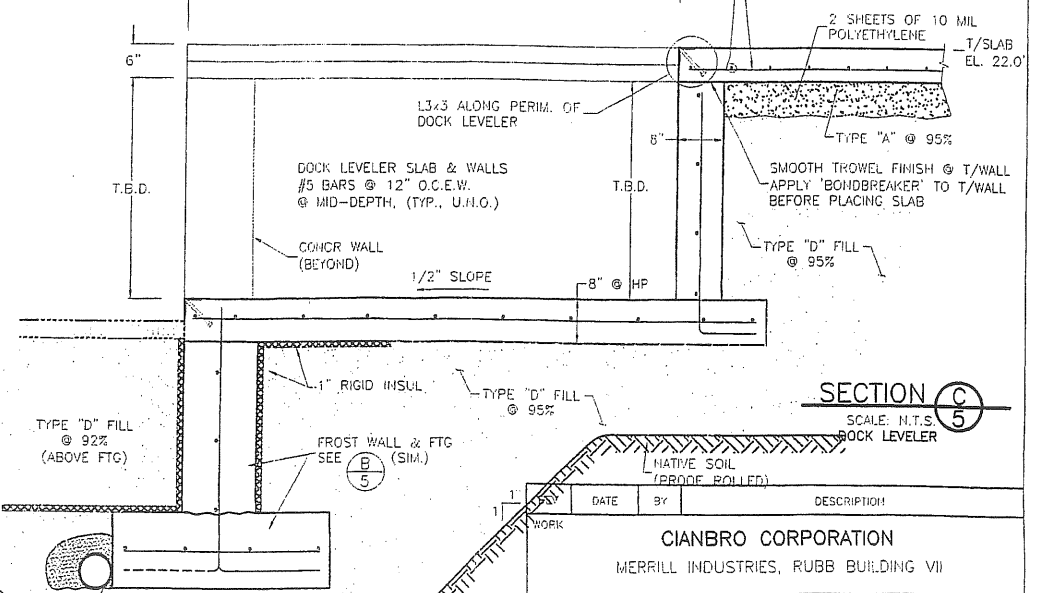
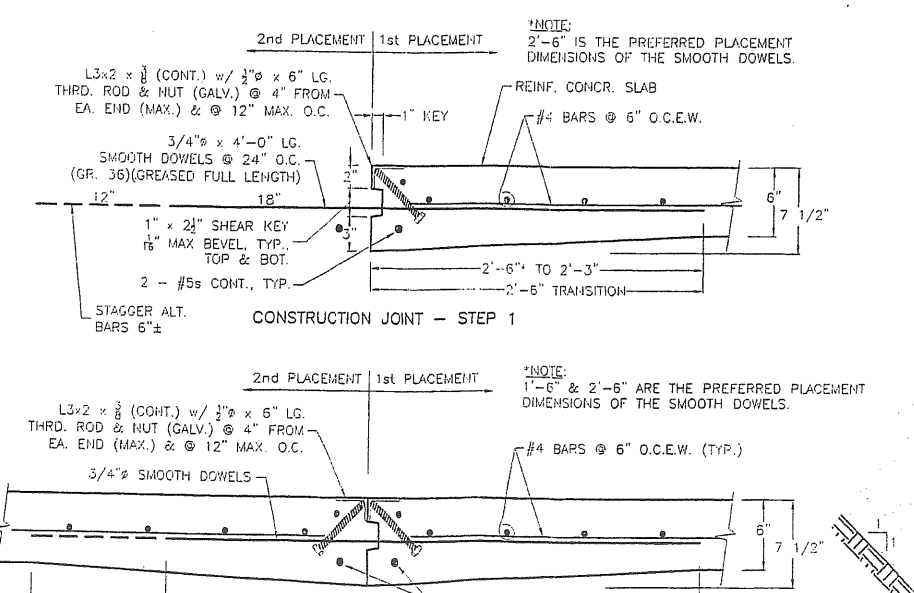
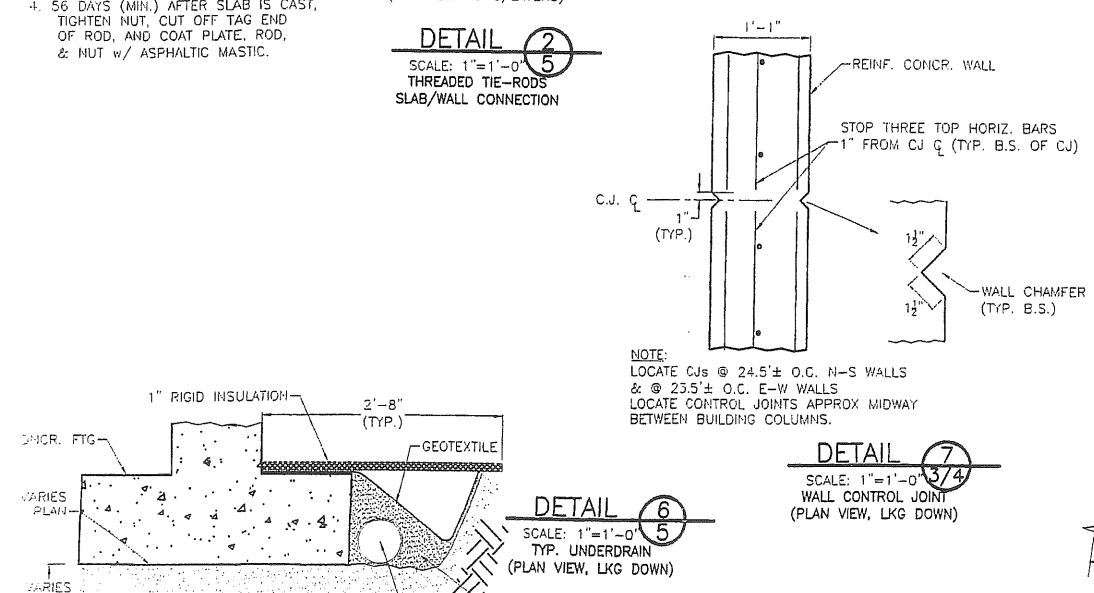
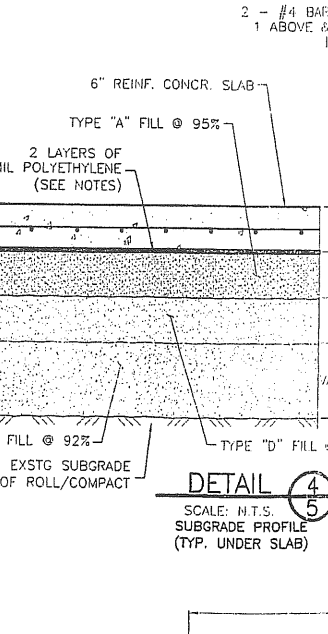
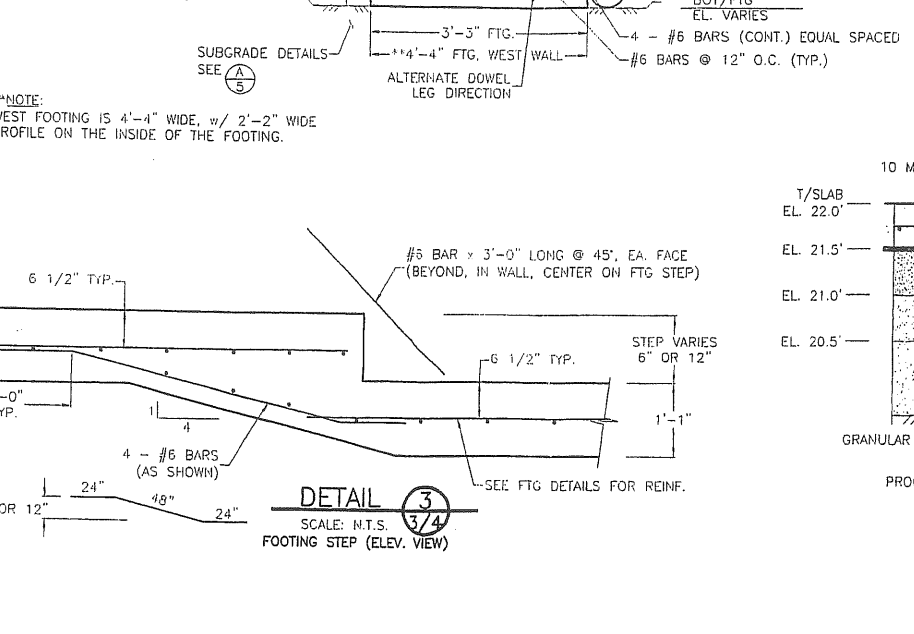
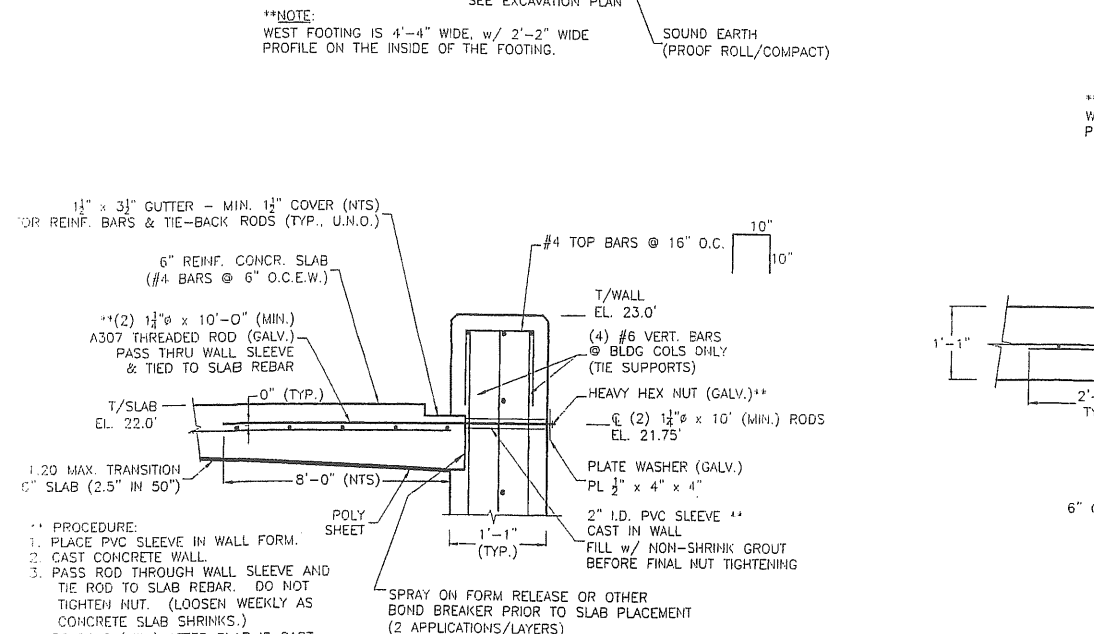
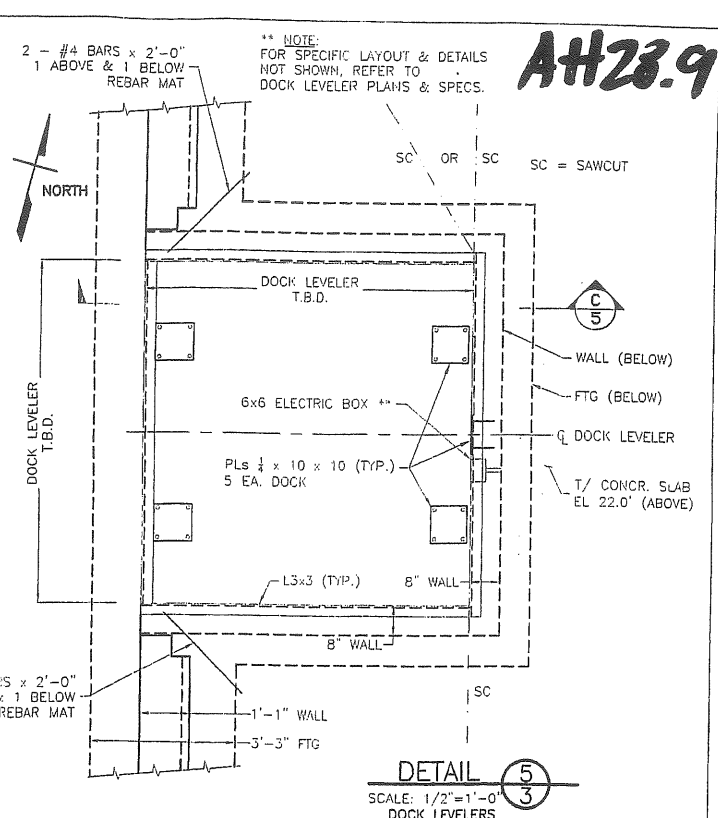
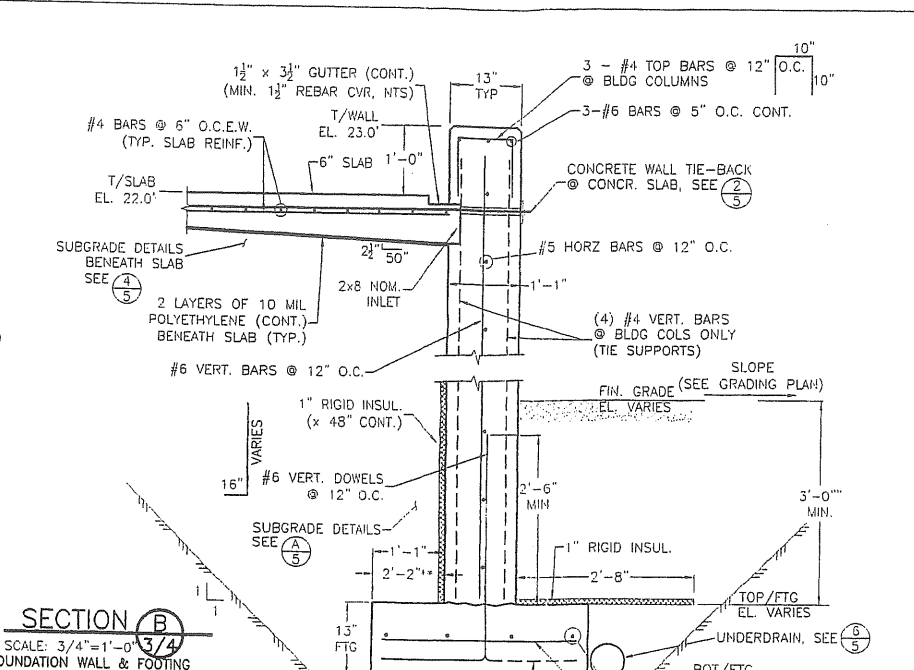
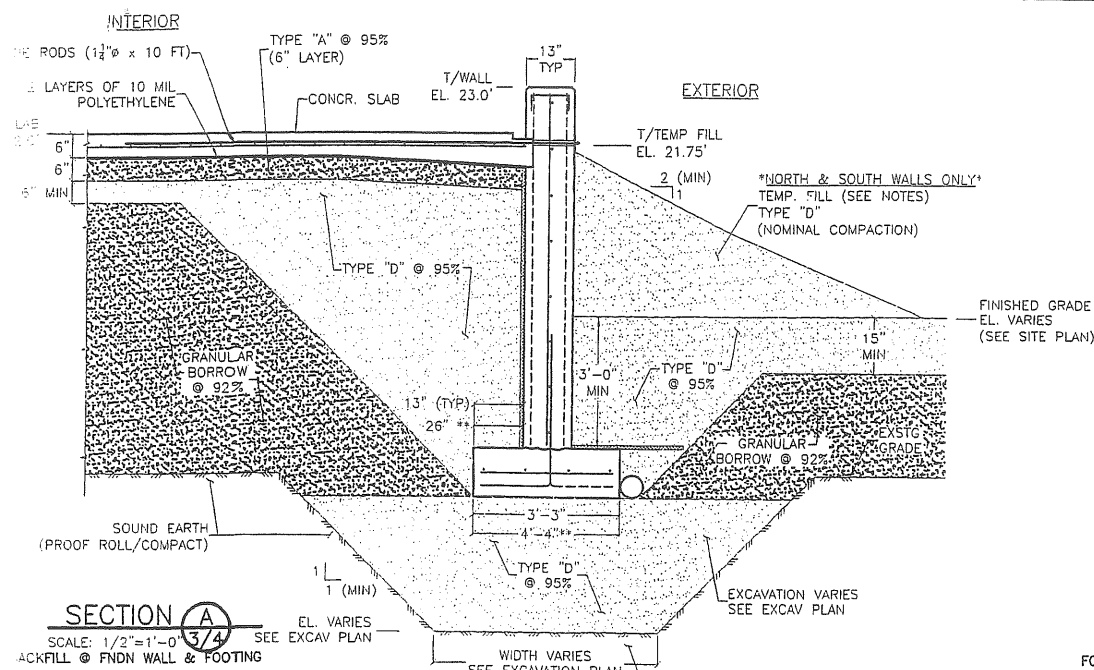
Slab-On-Grade: 1/8"± per 10' on top finished surface
- Reinforcing Bars: Grade 60 deformed bars (ASTM A615).
- Smooth Dowels: ASTM A307, A36, or better.
- Bars Splices shall be avoided to the extent possible. Minimum lap-splice lengths shall be 36 bar diameters for plain bars, unless otherwise noted.
- Reinforcement shall be stored & protected, placed, supported, secured, and fastened according to MDOT specifications.
- Concrete placed within formed boundaries or designated construction joints shall be placed in a continuous operation. All concrete shall meet maximum slump (and other) requirements and be installed without excessive dropping or other segregation-producing methods. All concrete will be consolidated using appropriately-sized, mechanical, high-frequency, internal vibrators.
- Place, finish, and cure slab-on-grade concrete using only generally-accepted, good-practice methods and operations, particularly with respect to the timing of critical finishing techniques. Except as otherwise specified or detailed on the Plans, follow the recommendations of ACI 302.1R "Guide for Concrete Floor and Slab Construction". The slab-on-grade is classified as a Class 5 (ACI 302.1R), single-course, industrial floor, with a float and hard-steel trowel finish.
- Footing forms may be removed after 24 hours provided the footing is immediately backfilled to the top of the footing. Wall forms may be removed after 48 hours of placement provided an approved chemical curing agent is immediately applied to exposed surfaces, or the surfaces are kept continuously wet by approved water-curing methods; otherwise, wall forms shall remain in place at least 7 days after concrete placement.
- The Slab-on-Grade surface shall be water-cured by keeping the concrete continuously wet with fresh water for at least 7 days after concrete placement.
- No vehicular loads will be allowed on the Slab-on-Grade within 7 days of concrete placement, and only light (passenger) vehicle will be allowed on the slab within 7 days thereafter (14 days of concrete placement).
- Additives. Dose, Mix, Apply, and otherwise install Concrete Admixtures, Sealers, Hardeners, Curing Agents, etc. in strict compliance with the respective manufacturer's recommendations.

PRELIMINARY PLANS
*** NOT FOR CONSTRUCTION ***
 (PLANS FOR BUDGETING PURPOSES ONLY)

REV	DATE	BY	DESCRIPTION
WORK: MERRILL MARINE TERMINAL MERRILL INDUSTRIES, RUBB BUILDING VII			
DRAWING: PARTIAL FOUNDATION PLAN (EAST)			
SCALE: AS SHOWN			SHEET: 4 OF 5
GAGNON ENGINEERING INC.			

NOTE:
 UNCERTIFIED (MAINE P.E.) PLANS

AH28.9



PRELIMINARY PLANS
NOT FOR CONSTRUCTION

DATE	BY	DESCRIPTION

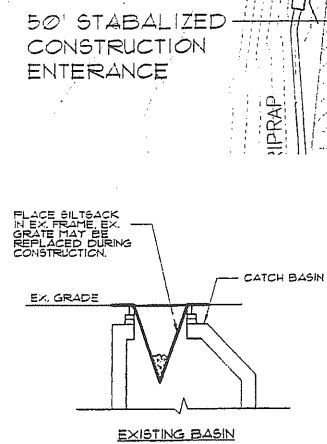
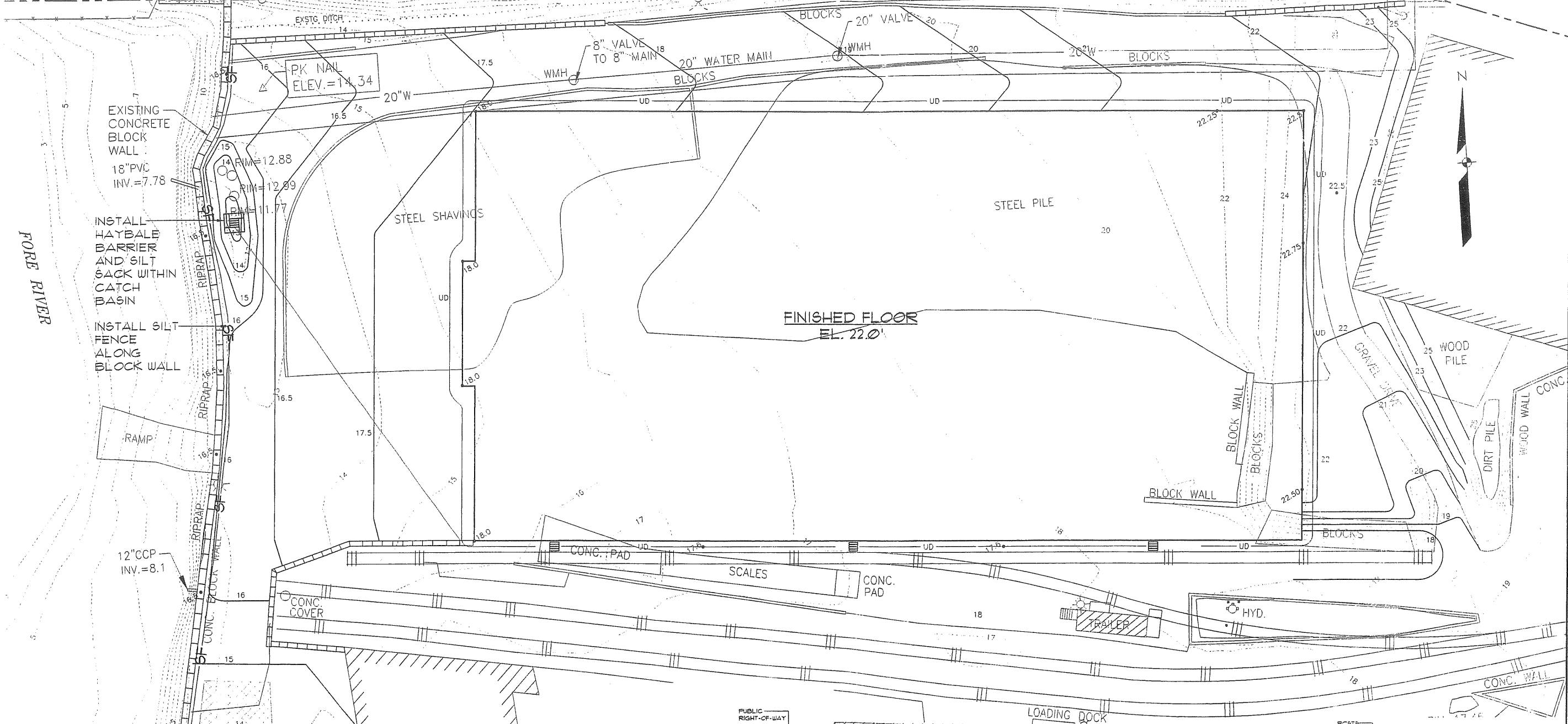
CIAMBRO CORPORATION
MERRILL INDUSTRIES, RUBB BUILDING VII

FOUNDATION & SLAB DETAILS

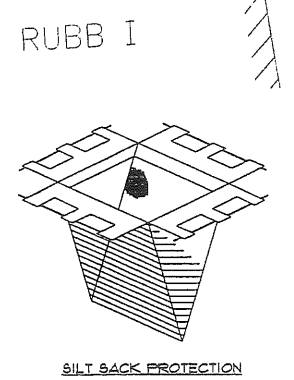
SCALE: AS SHOWN

AH.29.1

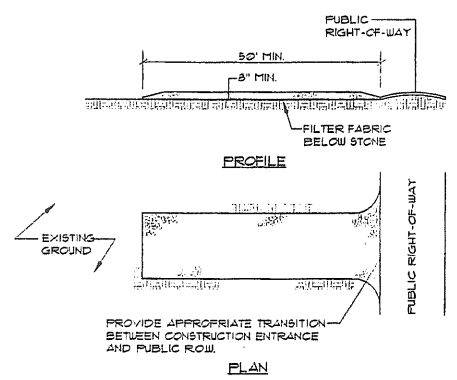
NOTE:
 THE EXISTING SITE FEATURES AND PROPOSED BUILDING LOCATION AND SIZING/UTILITY DESIGN (EXCEPT FOR EROSION CONTROL) ARE BASED UPON A DRAWING TITLED "SITE PLAN - FACILITIES, GRADING AND DRAINAGE" BY GAGNON ENGINEERING, INC., DATED 8-24-04 AND LAST REVISED ON 1-14-05.



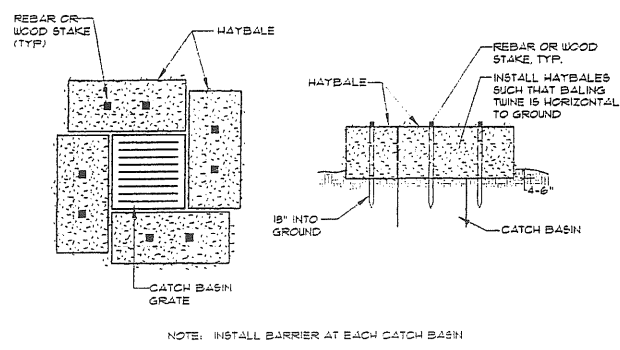
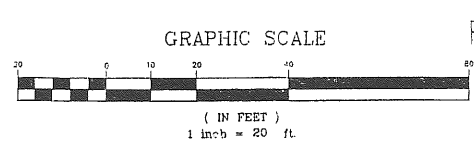
CATCH BASIN PROTECTION DETAIL
 (TOP VIEW) (SEE ALSO)



SILT SACK PROTECTION



NOTES:
 1. STONE SIZE- AASHTO DESIGNATION #43, SIZE NO. 1 1/2 1/2\"/>



INSTALLATION:
 1. EXCAVATE A 6\"/>

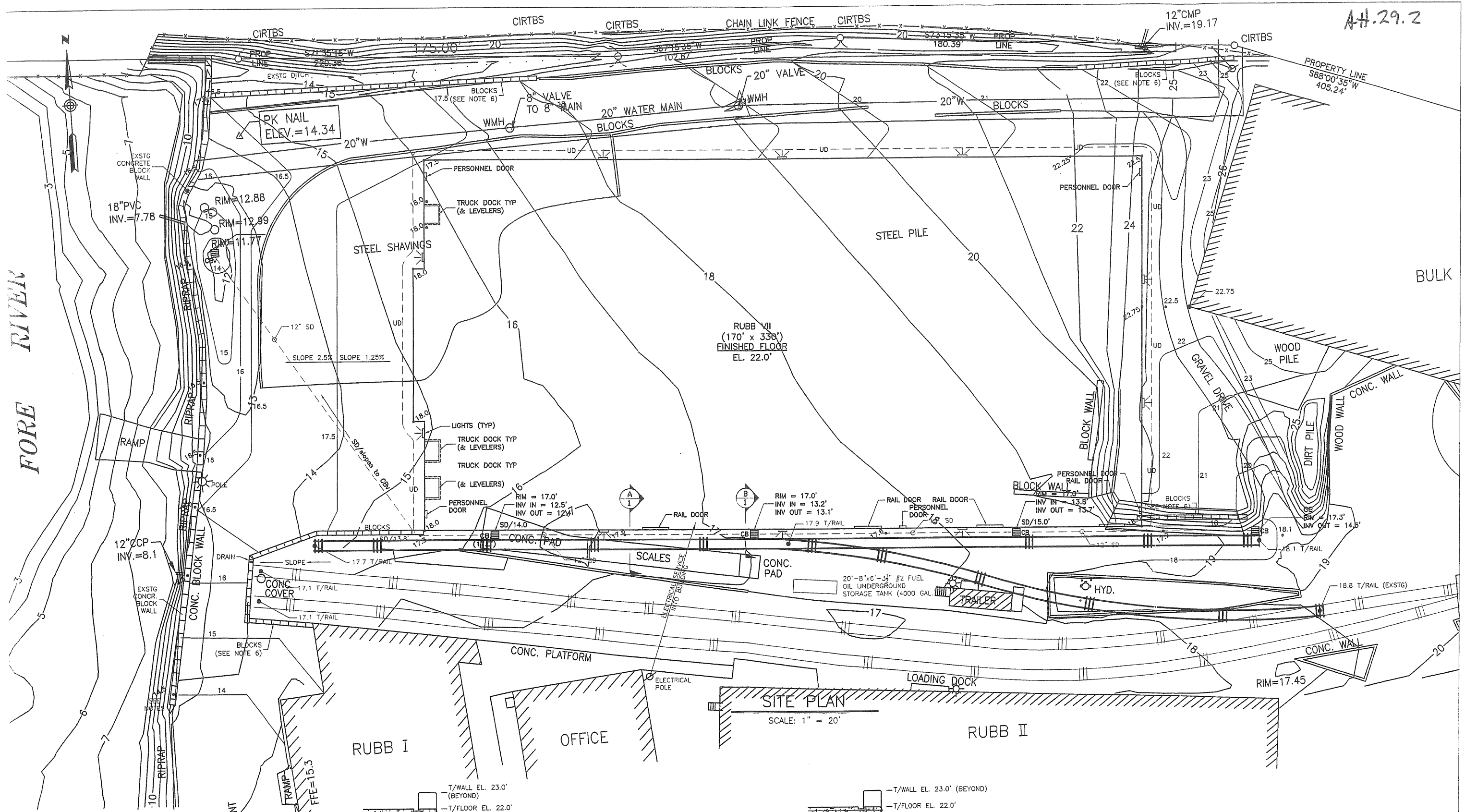
Sebago Technics
 Engineering Experience You Can Build On
 One Clinton Street
 Portland, ME 04103
 Tel: (207) 855-0277

PROJECT NO. 04480
 FIELD BOOK
 DESIGN
 MTW
 CHKD
 DTM
 DRAWN
 MAL

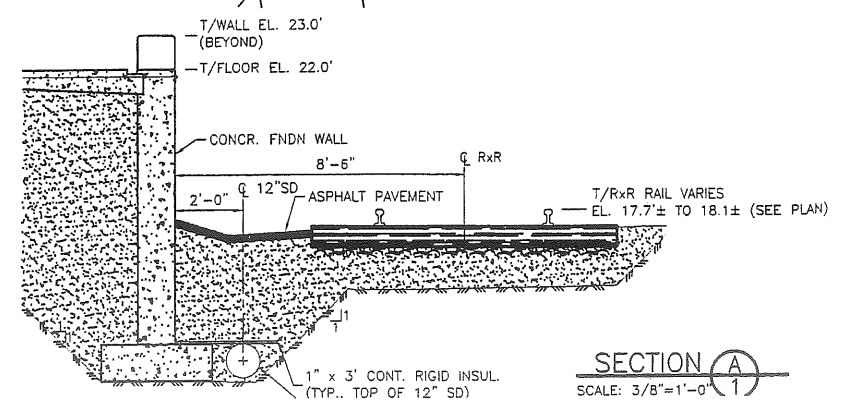
EROSION CONTROL PLAN
 OF
MERRILL'S MARINE TERMINAL
 601A DANFORTH STREET
 PORTLAND, ME
 FOR
MERRILL INDUSTRIES
 114 EBEN HILL ROAD
 YARMOUTH, ME 04096

DATE 1-28-05 SCALE 1\"/>

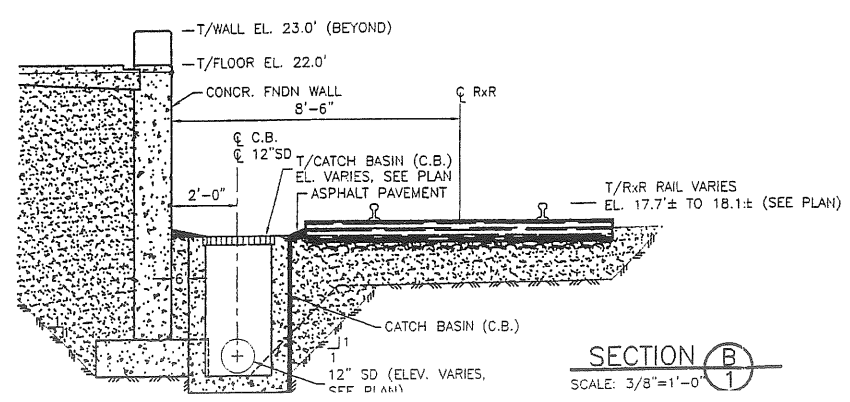
AH.29.2



SITE PLAN
SCALE: 1" = 20'



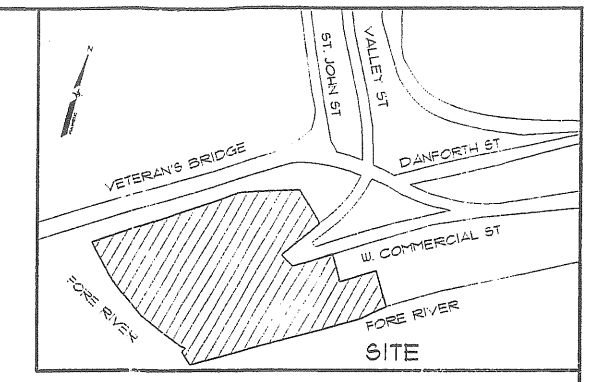
SECTION A
SCALE: 3/8"=1'-0"



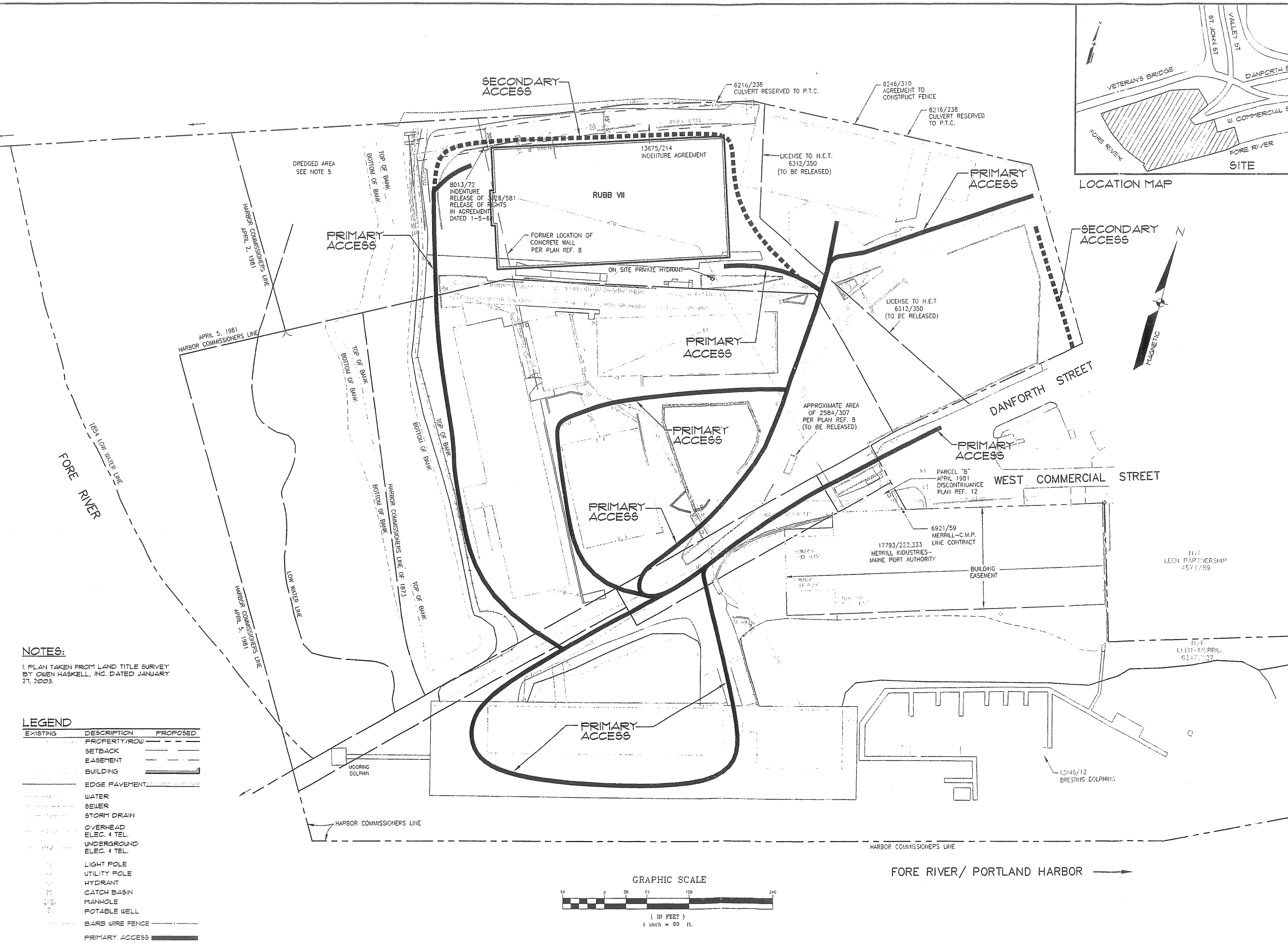
SECTION B
SCALE: 3/8"=1'-0"

6" FOOTING UNDERDRAIN PIPE (FOOTING LEVEL).
 SD = 12" STORM DRAIN PIPE.
 INVERT ELEVATIONS AS NOTED. DISCHARGE INTO VORTEX CATCH BASIN AS SHOWN.
 = TOP OF VORTEX CATCH BASIN (GRATE), RAISE TO ELEVATION 13.77'
 E MANHOLE RIM ELEVATIONS AS REQUIRED TO MATCH PROPOSED GRADING.
 TRUCK CONCRETE BLOCK WALL TOP ELEVATIONS ARE TYPICALLY MORE THAN 6" ABOVE PROPOSED GRADING.
 CHANGE EXISTING CONCRETE BLOCKS TO PROVIDE STEPS (2' MAX) AT BRUPT GRADE CHANGES. TOP OF BLOCKS SHOULD BE 6" (OR MORE) ABOVE PAVEMENT LEVEL. ASPHALT SEAL JOINTS AGAINST WATER SEAPAGE.

1	1/14/05	RG	PERMIT PLAN
REV	DATE	BY	DESCRIPTION
WORK: MERRILL MARINE TERMINAL MERRILL INDUSTRIES, RUBB BUILDING VII			
DRAWING: SITE PLAN FACILITIES, GRADING, & DRAINAGE			
SCALE: AS SHOWN	DATE: 8/24/04		SHEET: 1 OF 1
GAGNON ENGINEERING INC. Structural Consultants			



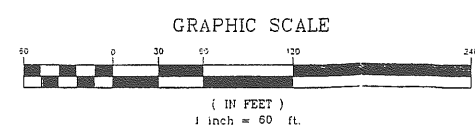
N.T.S.



NOTES:
 1. PLAN TAKEN FROM LAND TITLE SURVEY BY OWEN HASKELL, INC. DATED JANUARY 27, 2003.

LEGEND

EXISTING	DESCRIPTION	PROPOSED
---	PROPERTY/ROW	---
---	SETBACK	---
---	EASEMENT	---
---	BUILDING	---
---	EDGE PAVEMENT	---
---	WATER	---
---	SEWER	---
---	STORM DRAIN	---
---	OVERHEAD ELEC. & TEL.	---
---	UNDERGROUND ELEC. & TEL.	---
---	LIGHT POLE	---
---	UTILITY POLE	---
---	HYDRANT	---
---	CATCH BASIN	---
---	MANHOLE	---
---	POTABLE WELL	---
---	BARB WIRE FENCE	---
---	PRIMARY ACCESS	---
---	SECONDARY ACCESS	---



FORE RIVER/ PORTLAND HARBOR →

REV.	BY:	DATE:	STATUS:

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNIQS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNIQS, INC.

Sebago Techniqs
 Engineering Expertise You Can Build On
 One Onset Street
 Westbrook, Me 04092-1339
 Tel (207) 856-0777

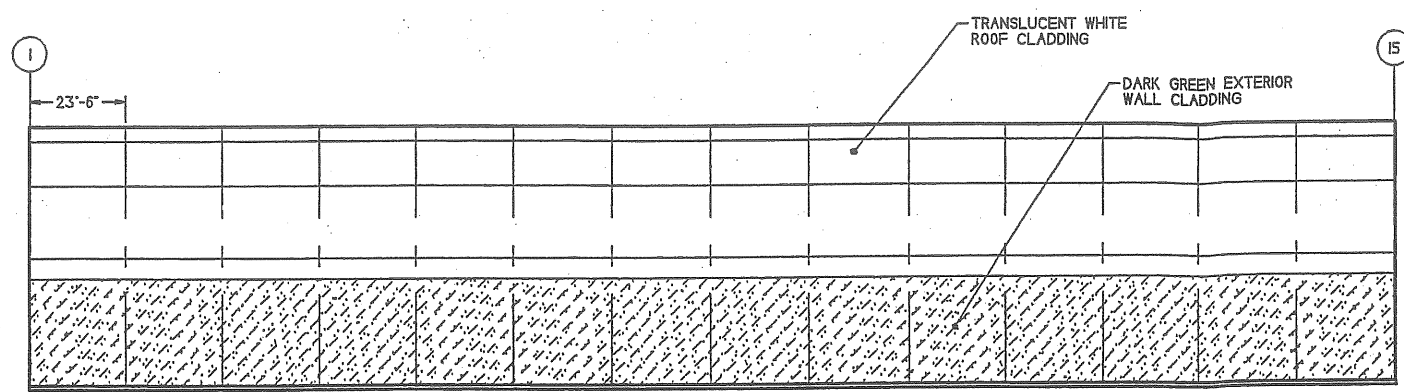
PROJECT NO.	04180
FIELD BOOK	DESIGN
CHKD	CHKD
DESIGN	DESIGN
CHKD	CHKD
FCL	FCL

SITE CIRCULATION
 OF
MERRILL'S MARINE TERMINAL
 601A DANFORTH STREET
 PORTLAND, ME

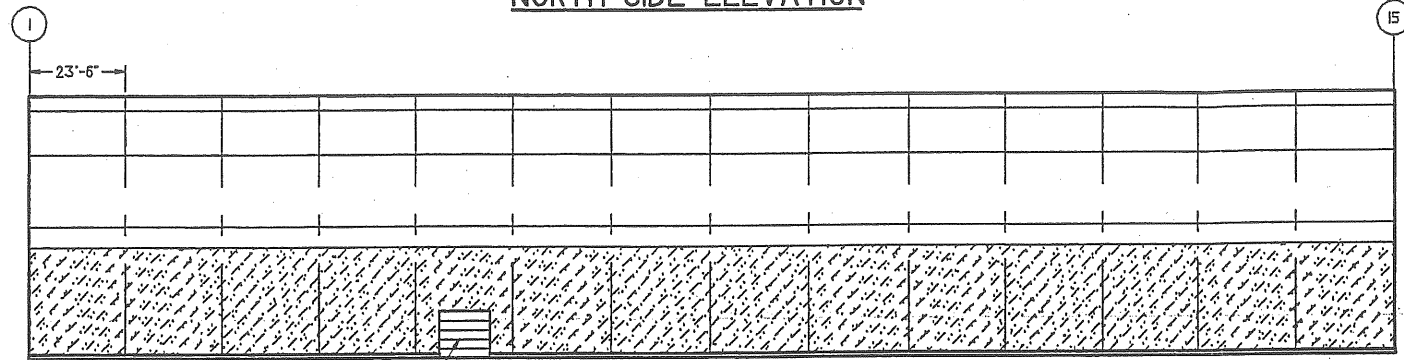
FOR:
MERRILL INDUSTRIES
 114 EBEN HILL ROAD
 YARMOUTH, ME 04096

DATE: 1/27/2005
 SCALE: 1"=60'

Att. 30.1

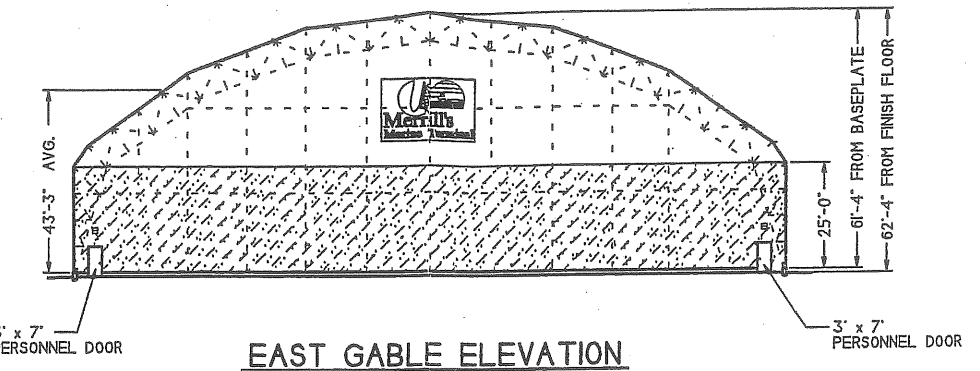


NORTH SIDE ELEVATION

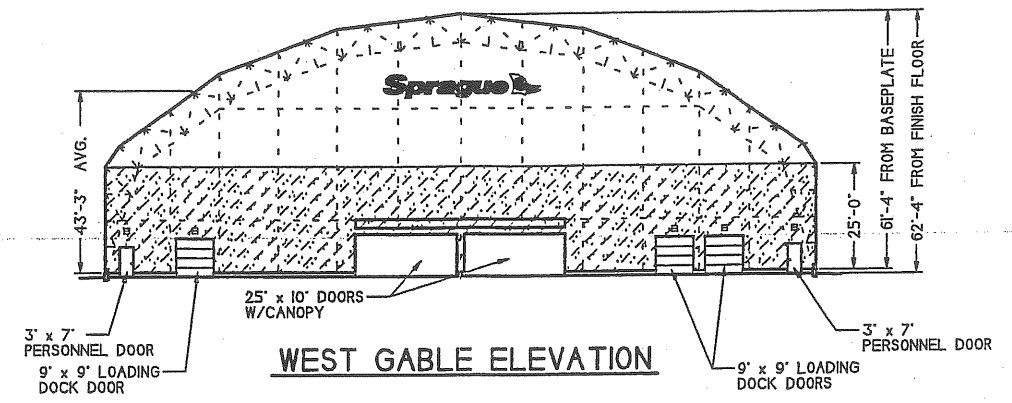


SOUTH SIDE ELEVATION

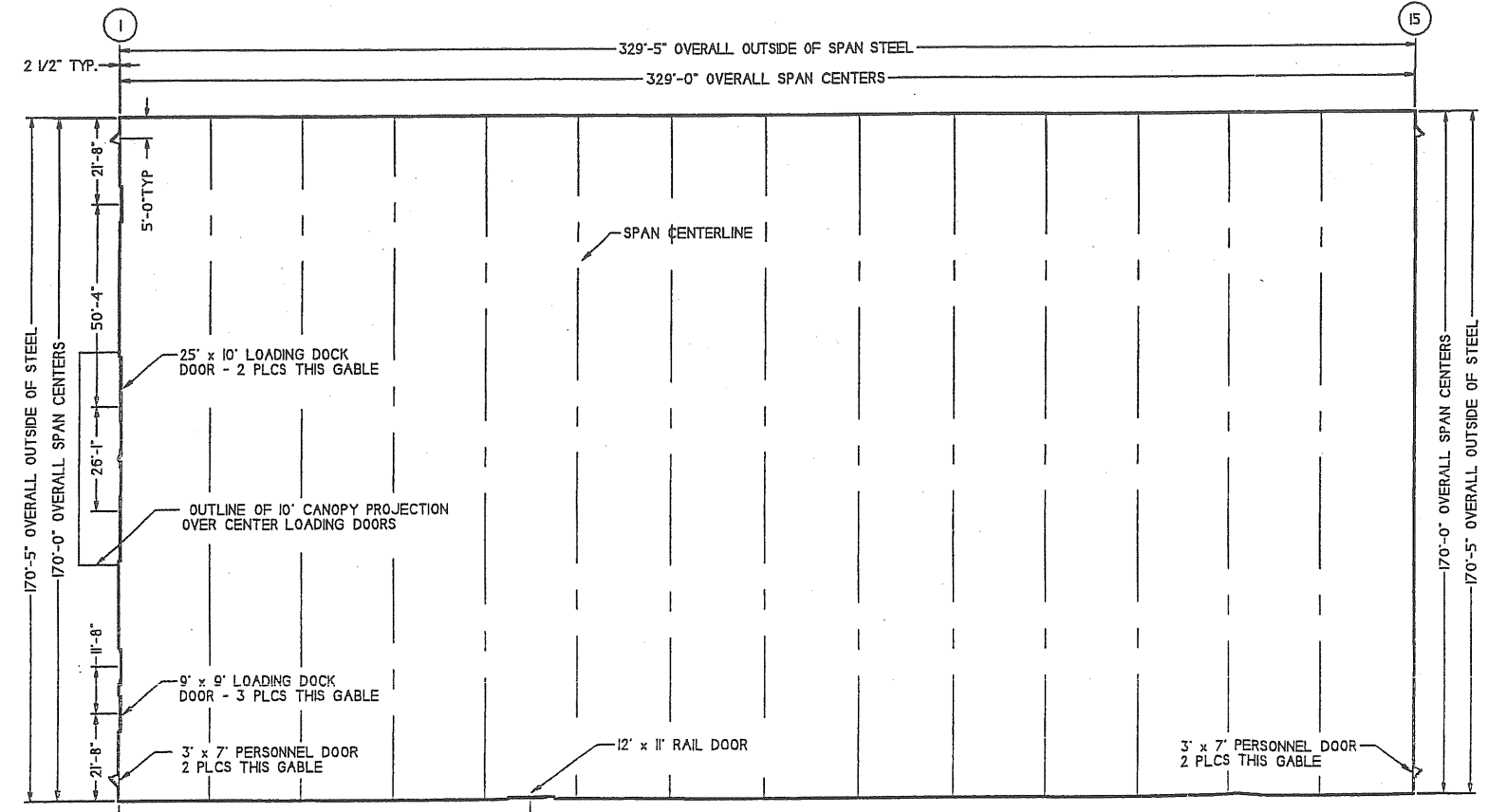
Sprague



EAST GABLE ELEVATION



WEST GABLE ELEVATION



EAST
PLAN VIEW



EAST GABLE

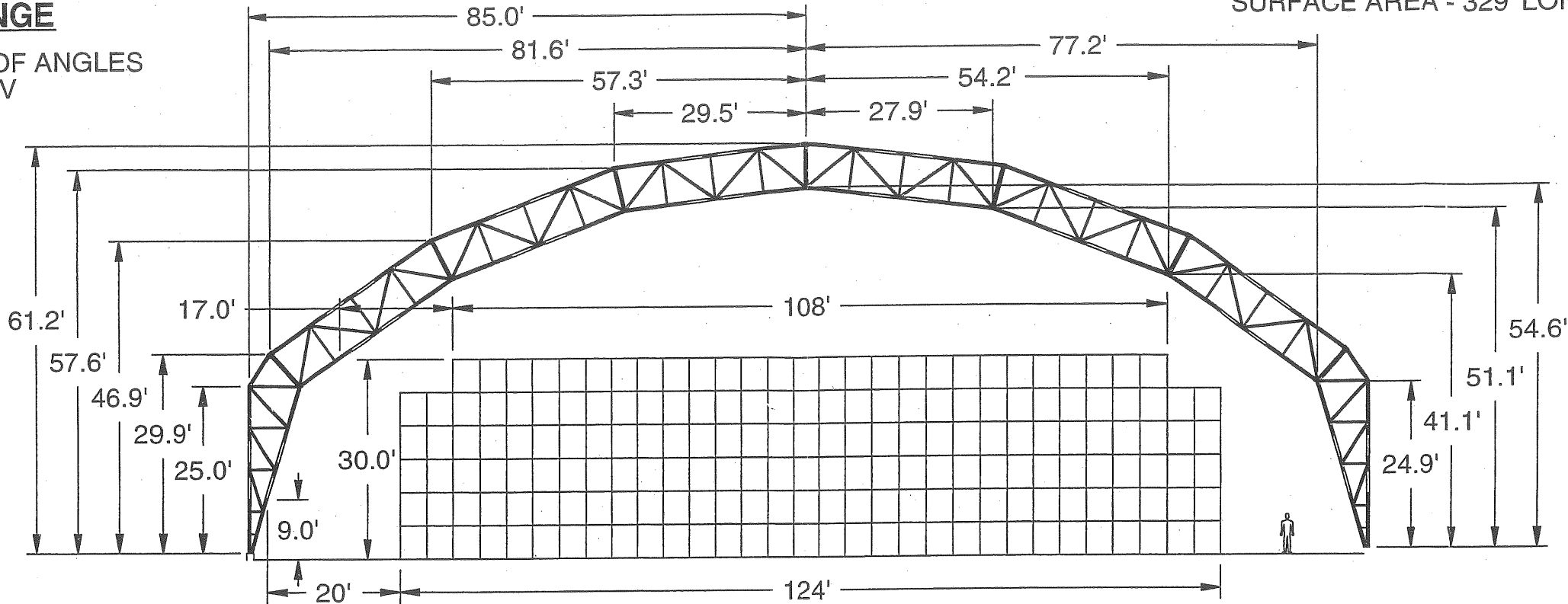
- 1.) COVERING MATERIAL IS A PVC IMPREGNATED POLYESTER WEAVE FABRIC SELF EXTINGUISHING TO FEDERAL TEST STANDARD 191 METHOD 5903 AND COMPLIES WITH NFPA STANDARD 701 UBC 55-1 AND CALIFORNIA STATE FIRE MARSHALL'S OFFICE.
- 2.) STRUCTURAL FRAMEWORK IS POST PRODUCTION HOT DIP GALVANIZED TUBULAR STEEL TRUSS FRAMES INTERCONNECTED WITH GALVANIZED TUBULAR STEEL PURLINS AND FRAMES. STEEL PLATE AND SHAPES ARE A36. STEEL TUBING IS A500.
- 3.) STRUCTURAL LOADS: IBC 2003
WIND LOAD: 100 mph 3 SEC GUST EXPOSURE C $W=0.87$
ROOF LIVE LOAD: 30 pcf GROUND SNOW LOAD: 50 pcf. $W=0.80$

REV.	DESCRIPTION	DRAWN	APP.	DATE
1				
We Cover The World MERRILL RUBB BUILDING SYSTEMS		TITLE MERRILL / SPRAGUE RUBB VII 170' SPAN BVL w/25' LEG PLAN VIEW & ELEVATIONS		
DRAWN DCN I-27-05	SCALE 1 : 250	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.		
DATE MERRILL RUBB VII	JOB NO. MERRILL RUBB VII	DRAWN BY RUBE E. SAIFORD HANE 04073	CHECKED BY MERRILL RUBB VII	39764
TEL: 207-324-2677 FAX: 207-324-2347				

AVC RANGE

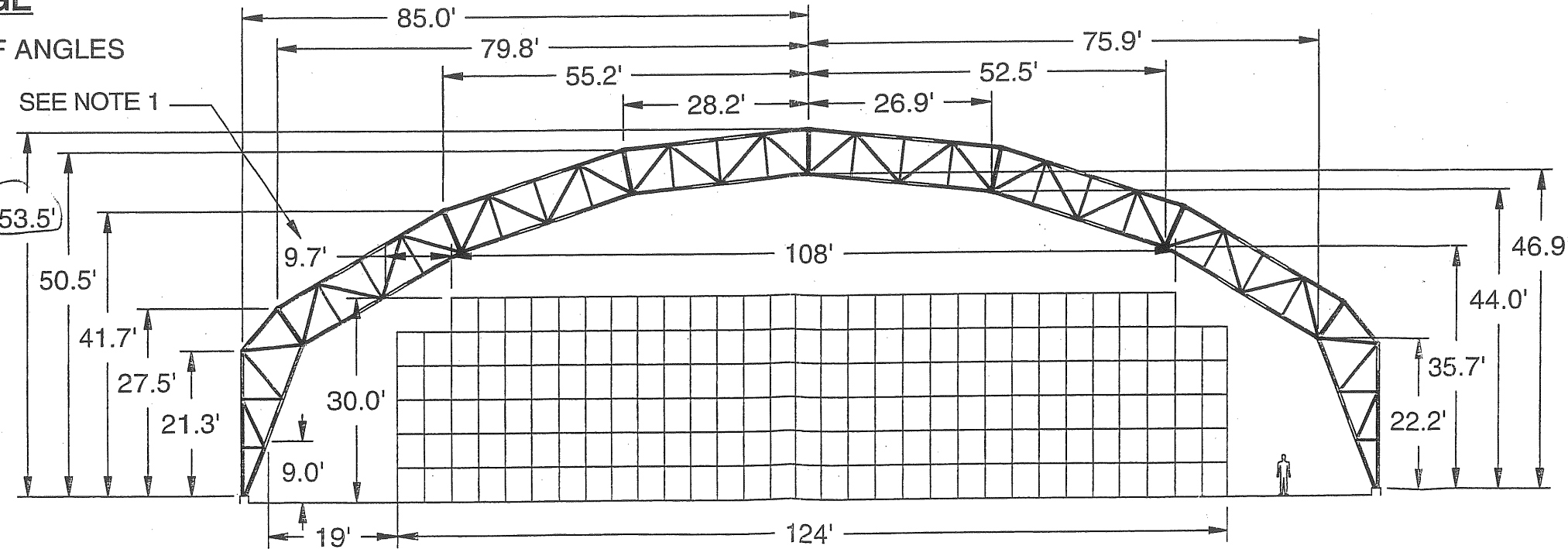
SAME ROOF ANGLES AS RUBB IV

AVC WITH 25' WALL GIVES SPACE FOR 182 - 4' DIA x 5' HIGH ROLLS
SPAN PER. = 240 LF - GABLE = 8,504 SF
SURFACE AREA - 329' LONG = 96,088 SF



BVE RANGE

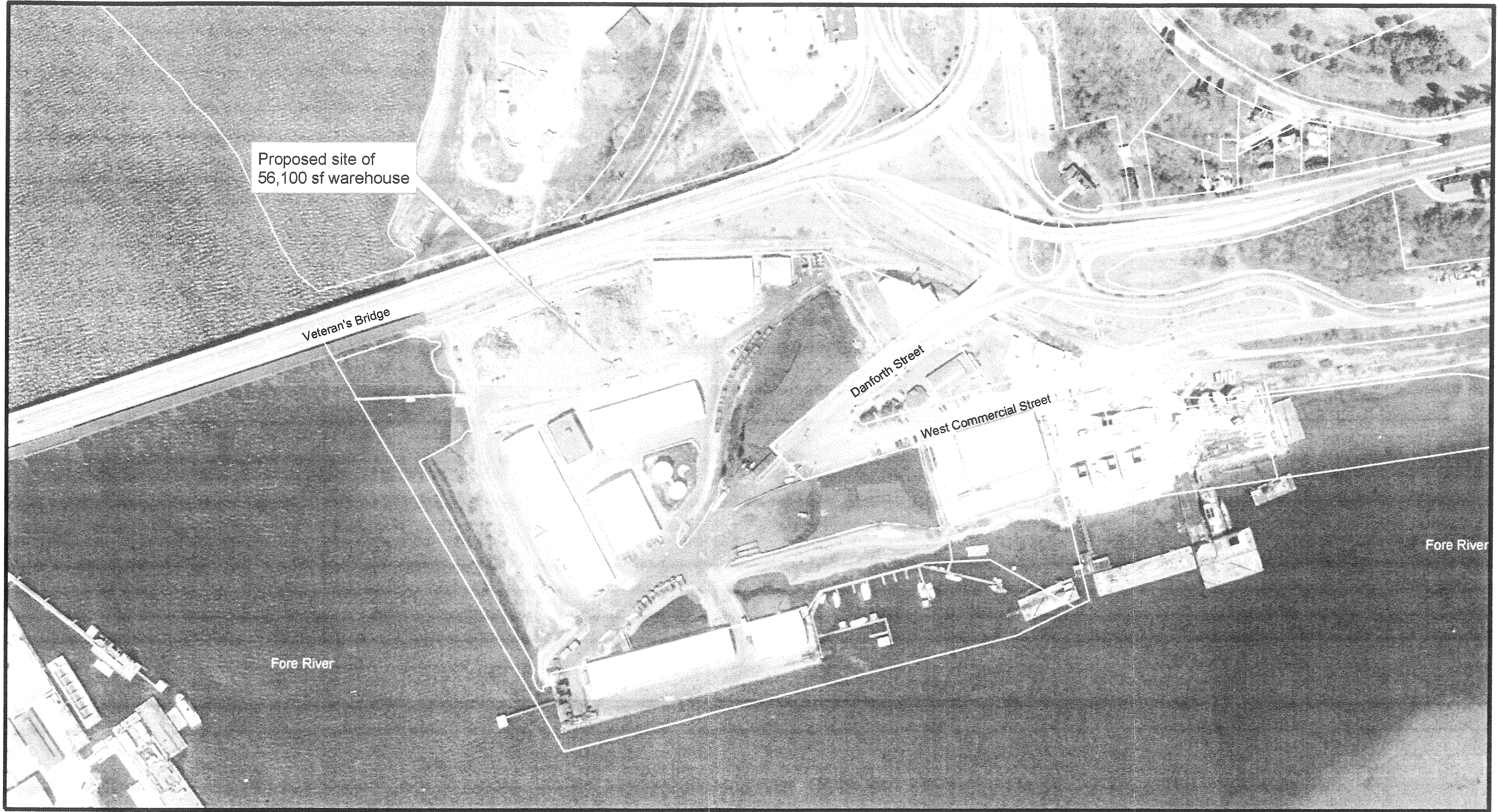
SAME ROOF ANGLES AS RUBB VI



BVE WITH 21' WALL GIVES SPACE FOR 182 - 4' DIA x 5' HIGH ROLLS
SPAN PER. = 230 LF - GABLE = 7,428 SF
SURFACE AREA - 329' LONG = 90,641 SF

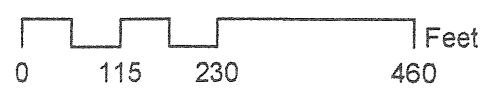
NOTE 1:
INCREASING WALL OF BVE TO 25'
BRINGS SURFACE AREA TO 94,337 SF
OR 2% LESS THAN AVC WITH 25' WALL.
THIS ALSO INCREASE 9.7' CLEARANCE TO 16.1'

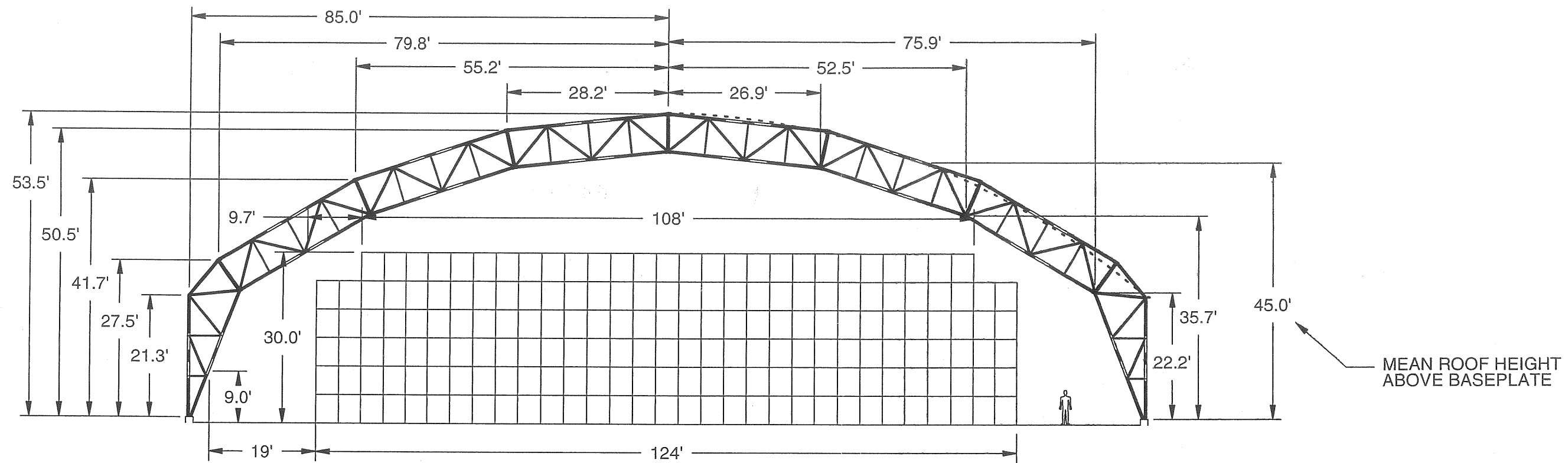
TITLE		We Cover The World	
170' AVC AND BVE / 25' LEG SPAN PROFILE COMPARISON		RUBB	
BUILDING SYSTEMS			
GA	SP	SCALE	DRAWN
		1:350	DCN
		DATE	DRAWING NO.
		1/28/05	81974



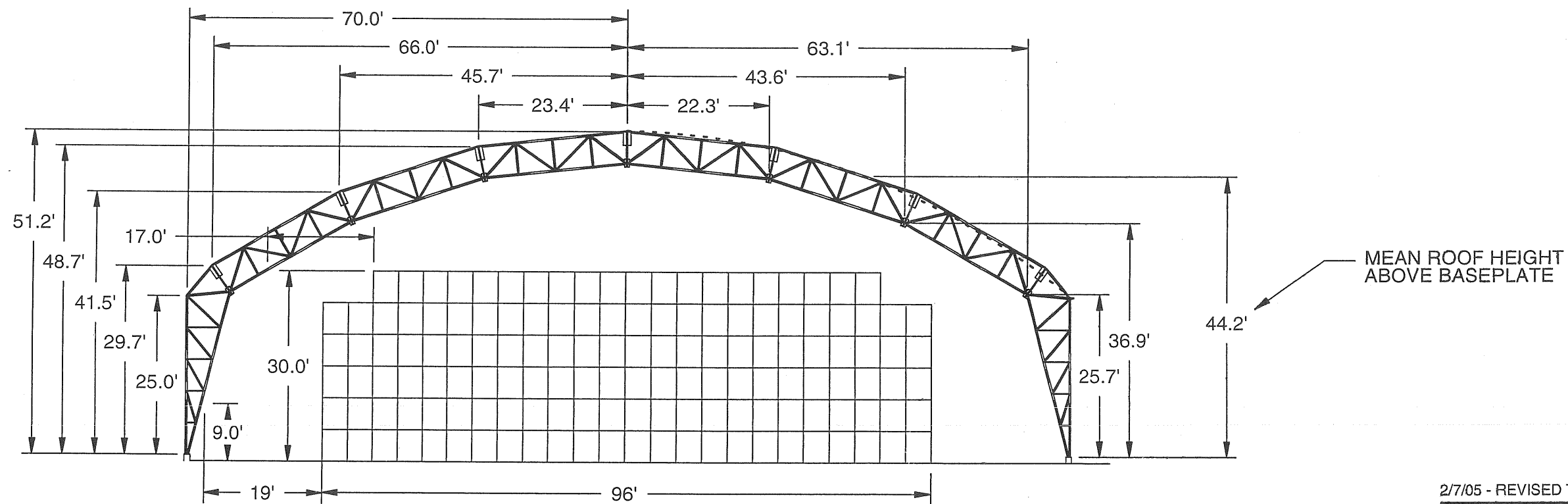
Merrill Marine Terminal Proposed Warehouse

Map prepared for the City of Portland Planning Board by the Portland Planning Division using data from the Portland GIS Work Group January 2005





RUBB VII - PROPOSED 170' SPAN BVE RANGE W/21' LEG



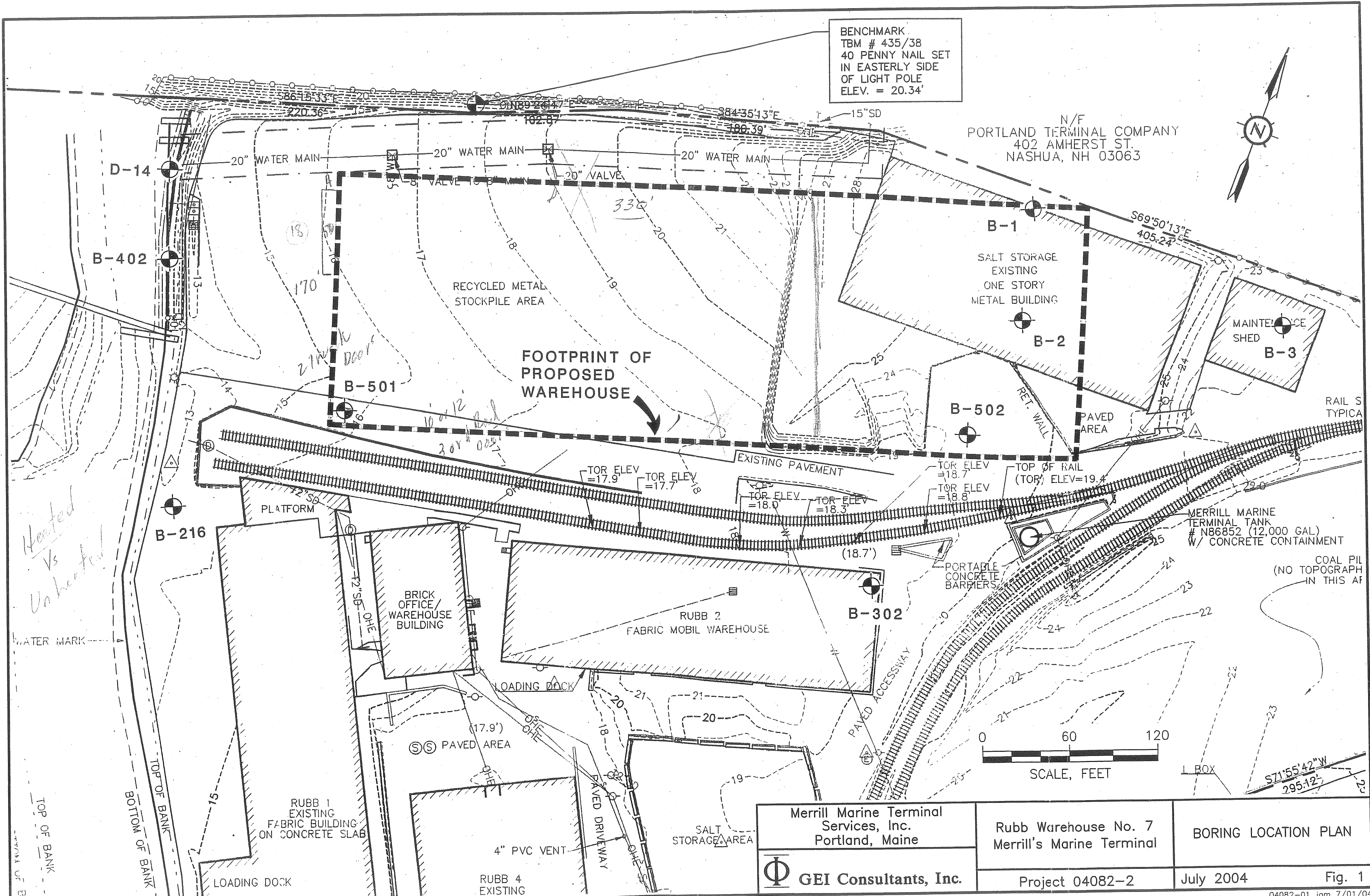
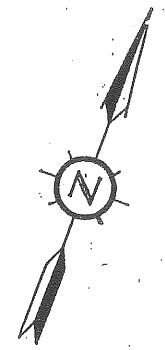
RUBB VI - 140' SPAN BVE RANGE

2/7/05 - REVISED TO SHOW DISTANCE FROM CENTER OF ARC

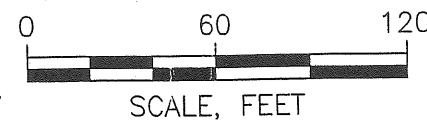
TITLE					We Cover The World	
PROPOSED RUBB VII - COMPARISON OF 170' SPAN BVE w/21' LEG TO RUBB VI - 140' SPAN BVE w/25' LEG						
GA	SP	SCALE	DRAWN	DATE		
7425 SF	230 LF	1" = 20'	DCN	2/4/05	81982	

BENCHMARK
 TBM # 435/38
 40 PENNY NAIL SET
 IN EASTERLY SIDE
 OF LIGHT POLE
 ELEV. = 20.34'

N/F
 PORTLAND TERMINAL COMPANY
 402 AMHERST ST.
 NASHUA, NH 03063



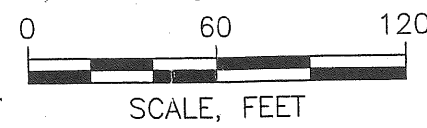
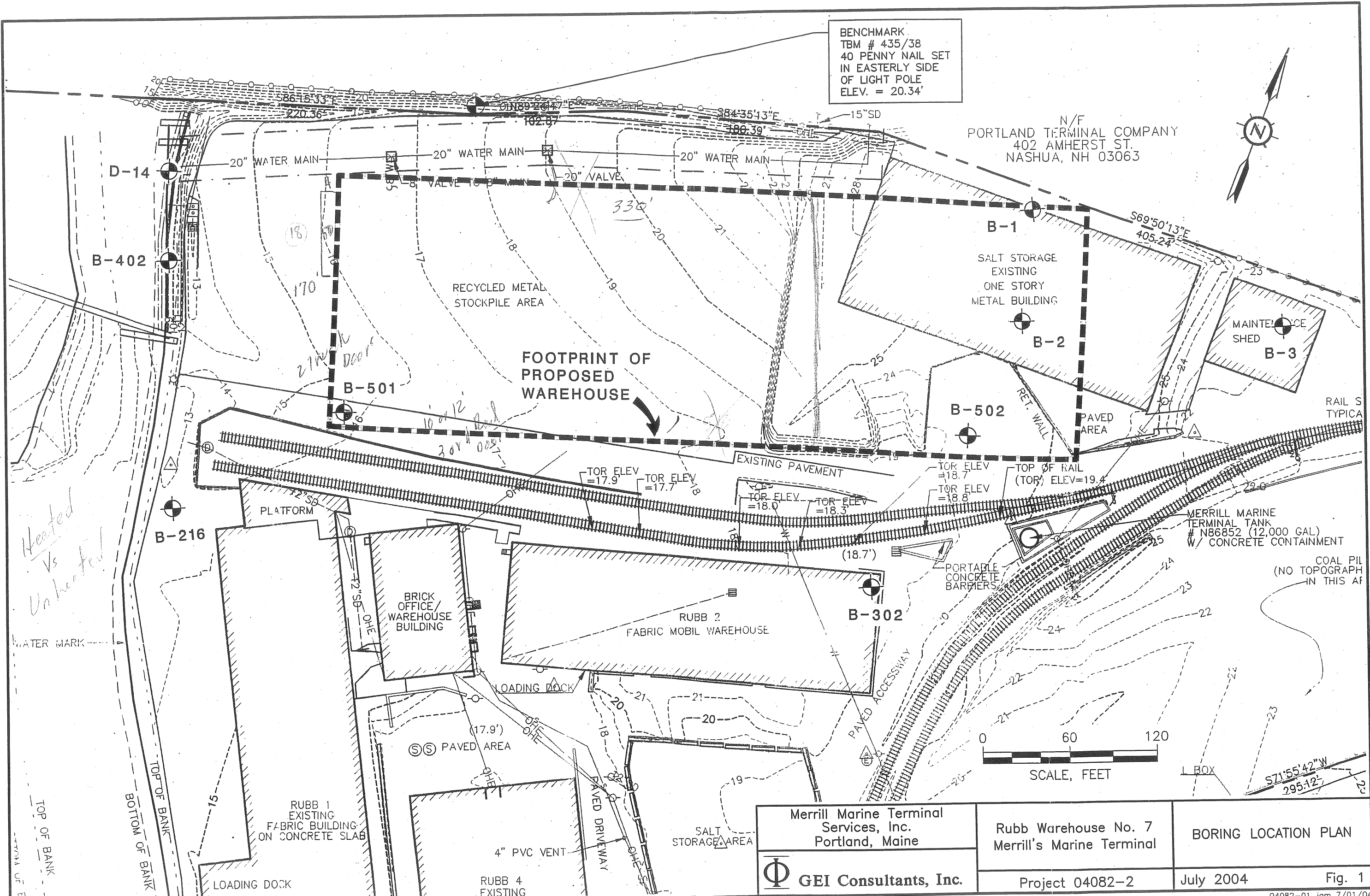
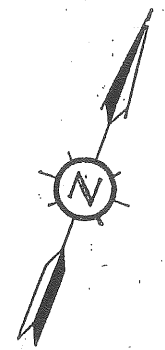
*Heated
vs
Unheated*



Merrill Marine Terminal Services, Inc. Portland, Maine	Rubb Warehouse No. 7 Merrill's Marine Terminal	BORING LOCATION PLAN	
GEI Consultants, Inc.	Project 04082-2	July 2004	Fig. 1

BENCHMARK
 TBM # 435/38
 40 PENNY NAIL SET
 IN EASTERLY SIDE
 OF LIGHT POLE
 ELEV. = 20.34'

N/F
 PORTLAND TERMINAL COMPANY
 402 AMHERST ST.
 NASHUA, NH 03063



Merrill Marine Terminal Services, Inc. Portland, Maine	Rubb Warehouse No. 7 Merrill's Marine Terminal	BORING LOCATION PLAN	
GEI Consultants, Inc.	Project 04082-2	July 2004	Fig. 1