	aine - Building or Use			CBL:
Location of Construction:	4101 Tel: (207) 874-870	3, Fax: (207) 874-87		066 A010001
365 Park Ave	Carvel J Stev	ven &	Owner Address: 72 Stroudwater Rd	Phone: 207-774-3172
Business Name:	Contractor Nan		Contractor Address: 708	
		Construction, Inc.	P.O. Box 1264 Portland	2078653300
Lessee/Buyer's Name	Phone:		Permit Type: Additions - Commercial	Zone:
Past Use:	Proposed Use:		Permit Fee: Cost of W	ork: CEO District:
Office/Warehouse	Office/Plastic	Bottle Production	EIDE DEDE	000.00 3
			Approved Denied	Use Group:
Proposed Project Description Removal/replacement of			Signature: JHT	Signature Unit
mmo au	mit 0h-08	57	PEDESTRIAN ACTIVITIES DIS	pproved w/Conditions Denied
121110 120.			Signature:	Date:
Permit Taken By: jmy	Date Applied For: 06/26/2002		Zoning Approv	val /
		Special Zone or Rey	ews Zoning Appeal	Historic Preservation
	ion does not preclude the seeting applicable State and	Shoreland N	Variance fractize	Not in District or Landmar
2. Building permits do septic or electrical v		☐ Wetland	Miscellaneous	Does Not Require Review
within six (6) month	e void if work is not started s of the date of issuance. ay invalidate a building	☐ Flood Zone	Conditional Use	Requires Review
permit and stop all v		Subdivision	Interpretation	☐ Approved
		Site Plan	Approved 5/2/	Approved w/Conditions
		Maj Minor Mi	Denied See Attacked	Denied
		Date:	15/0 Pate:	Date:
		CERTIFICAT		
have been authorized by urisdiction. In addition,	the owner to make this app if a permit for work describe	lication as his authorized in the application is	ed agent and I agree to conform issued. I certify that the code of	d by the owner of record and that n to all applicable laws of this fficial's authorized representative vision of the code(s) applicable to
SIGNATURE OF APPLICANT		ADDRE	SS DAT	E PHONE
RESPONSIBLE PERSON IN (CHARGE OF WORK, TITLE		DAT	E PHONE

02-0716

All Purpose Building Permit Application If you or the property owner owes real estate or personal property taxes or user charges on any

ocation/Address of Construction: 3	65 P	AK AUZMIZ.	PORTLA	-). m=
otal Square Footage of Proposed Structu		Square Footage of Lo		
ax Assessor's Chart, Block & Lot Chart# 66 Block# A Lot# 10	Swiler.	. 57E-124 - AR-121 HELLEY 57-ART CA 1.0. BOX 1377 PORTLAL) ME. O	ا المداد	ephone: 7クチ-3 17之
essee/Buyer's Name (If Applicable) H.P. Hosbich, July BHT PARK AUR PORTLAND, MR. OHIOZ	telephone:	name, address & 865-3300 KLE		\$ 830,0 00. 5,833,0
Current use: OFF. E/LARST	House	,	72. chec	m 4951.00
the location is currently vacant, what wo	as prior use: _	· / /	Court	1 889.0U
pproximately how long has it been vaca	ınt:	21/4	- 0.50	au 5833.00
roposed use: OFF, CE Praterio Buredia	57. E B.	77LE Prode	, , , , -	19
Merca leties	500	SF 10 x 00	. 10	x30 LSi
Contractor's name, address & telephone:-				865-3300
/ho should we contact when the permit	is ready:	DICK MILLER		C 71 CL
lailing address: ニュニュフミル し.	~e < 0.		44	
evill contact you by phone when the periew the requirements before starting arend a \$100.00 fee if any work starts before	ny work, with	a Plan Reviewer. A sta	op work orde	er will be issued
THE REQUIRED INFORMATION IS NOT INCLUNIED AT THE DISCRETION OF THE BUILDING FORMATION IN ORDER TO APROVE THIS PE	/PLANNING			
ereby certify that I am the Owner of record of the nove been authorized by the owner to make this application. In addition, if a permit for work described in the law the authority to enter all predictions covered by this permit.	ication as his/he This application	er authorized agent. I agree o is issued: toertify that the C	to conform to a ode Official's au	ill applicable laws of this uthorized representative

Planning Department on the 4th floor of City Hall

Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

E

Permit Number: 020716

			· ·
This is to certify that	Carvel J Steven &/Cen	ter Li	
has permission to	Removal/replacement	of met varehous	
AT 365 Park Ave			_ 066 A010001
of the provision	ne person or persons of the Statutes n, maintenance a	of Name and of the	epting this permit shall comply with all ances of the City of Portland regulating tures, and of the application on file in
	orks for street line e of work requires	N ication inspect in muse git and with permission pro- ble this to tling or to ther land or of the cosed-in H R NOTICE IS REQUIRED.	A certificate of occupancy must be procured by owner before this building or part thereof is occupied.
Fire Dept Pleatth Dept Appeal Board Other	<i>y</i>		My Jugat \$/21/02
D <u>e</u> pa(rtment Name	ENALTY FOR REMOVING TH	HIS CARD





CITY OF PORTLAND MAINE

389 Congress St., Rm 315 Portland, ME 04101 Tel. – 207-874-8704 Fax – 207-874-8716

TO:

PSH 6/07/2K

Inspector of Buildings City of Portland, Maine

Planning & Urban Development

Division of Housing & Community Services

FROM DESIGNER: Becker Structural Engineers / CWS Architects	
19 Commercial St., Portland ME / 434 Cumberland Ave. Portla	and ME
DATE: June 3, 2002	
Job Name: HP Hood Inc.: Bottle Conveyor + Facility	
Address of Construction: 349 Park Ave., Portland, ME	
THE BOCA NATIONAL BUILDING CODE/1999 FourteenthEDITION Construction project was designed according to the building code criteria listed below:	
Building Code and Year BOCA 1999 Use Group Classification(s) F-2	
Type of Construction 2C Bldg. Height 20'-0" +/- Bldg. Sq. Footage +/- 3,500 SF	
Seismic Zone peak accell. Av=.12 Group Class Siesmic Hazard Exposure Group I/C	*
Roof Snow Load Per Sq. Ft. 46# Dead Load Per Sq. Ft. 20#	
Basic Wind Speed (mph) 85 Effective Velocity Pressure Per Sq. Ft. 23#	
Floor Live Load Per Sq. Ft. 125# Light Manufacturing Structure has full sprinkler system? Very No. 125# X	
Structure has full sprinkler system? Yes No Alarm System? Yes No Sprinkler & Alarm Systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department.	
Is structure being considered unlimited area building: Yes_No_x	
If mixed use, what subsection of 313 is being considered N/A	
List Occupant loading for each room or space, designed into this Project. Ref. Opposite side of sheet. Guy	
(Designers Stamp & Signature) T	171



COPY



CITY OF PORTLAND BUILDING CODE CERTIFICATE 389 Congress St., Rm 315 Portland, ME 04101

TO.	
10.	

Inspector of Buildings City of Portland, Maine Department of Planning & Urban Development Division of Housing & Community Service

FROM:

Becker Structural Engineers / CWS Architects

RE:

Certificate of Design

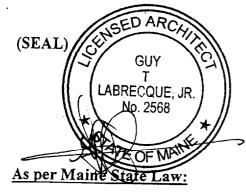
DATE:

June 3, 2002

These plans and/or specifications covering construction work on:

The renovations to the Carvel Building at HP Hood.

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code/1999 Fourteenth Edition, and local amendments.



Signature Vice President
Title

Firm CWS Architects

Address 434 Cumberland Avenue, Portland, ME 04101

\$50,000.00 or more in new construction, repair, expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.





City of Portland, Maine 389 Congress St., Rm 315 Portlaind, ME 04101

ACCESSIBILITY CERTIFICATE

TO:	Inspector of Buildings City of Portland, Maine Department of Planning & Urban Development	
	Division of Housing & Community Services	
FROM:	Becker Structural Engineers / CWS Architects	
RE:	Certificate of Design, HANDICAP ACCESSIBILITY	
DATE:	June 3, 2002	
These plans a	and/or specifications covering construction work on:	
The ren	ovations to the Carvel Building at HP Hood.	
	signed and drawn up by the undersigned, a Maine registered itect according to State Regulations as adopted by the State of Maine on Accessibility.	
11		
(SEAL)	Signature	
	Title Vice President	
LINSED	Firm CWS Architects	
G	Address 434 Cumberland AVenue, Portland, ME CQUE, JR.	0410

Portland ME 04101-2325

Guy T. Labrecque - Architect

Phone:

207,774,4441

Fax:

207,774,4016 E-mail: GLabrecque@CWSarch.com

June 12, 2002

Paul Becker Becker Structural Engineers, Inc. 19 Commercial Street Portland, Maine 04101-4701

Dear Paul,

The attached documentation is the culmination of a wide variety of codes reviews and interpretation. Dan Burne and Dick Miller have been very helpful in providing the support information I've needed to pull this package together. I have also been in touch with Mike Nugent, Code enforcement officer for the City of Portland, in an effort to obtain interpretations on several of the gray areas that presented themselves.

It is the intent of the attached sketches to clarify and provide code conforming solutions to many of the Owner and Builders desires and concerns. That is not to say that other solutions would or will not present themselves as other ideas arise during the construction process. We would be happy to review other opportunities as required.

Along with the sketches addressing specific code criteria I have attached a the Code Compliance Report which serves as the basis for which our interpretations have been based upon. It contains information that may prove helpful during the construction process as well.

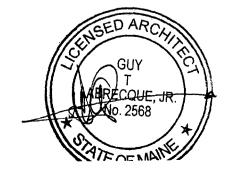
As requested I have included completed and stamped City of Portland Applications. I would suggest submitting the Code Compliance Report with the cities documents as well. It should be noted that the information provided within the sketches will need to be addressed or conflicts between the Contractor and the city inspections office may arise during their periodic construction reviews.

In a separate item and in response to the Owner's interest in the incorporation of a stairway chair lift, we have reviewed ADA, spoken with Dennis Pratt at Alpha One and spoken to Mike Nugent for further clarification. It is our determined that despite the fact that ADA will recognize a chair lift as an accessible "Means of Access", BOCA and Life Safety Codes does not allow a lift (or an elevator for that matter) to serve as an accessible "Means of Egress". Nor will BOCA of Life Safety allow any encroachment into the minimum clear egress width of an egress stair. The required width in the case of this egress stair is 44 inches. The smallest dimension of the stair is only 43 inches. The stair in it's existing configuration is non-conforming. It should be noted that in a two story building, ADA does not require an accessible path to the second floor. If the employer hires a disabled individual, the employer is required to either provide an acceptable path to the second floor (elevator, L.U.L.A. elevator, Lift, ramp, etc.) or provide equal first floor accommodations for this person. I would be happy to discuss this further at any time.

Feel free to give me call with any further questions or concerns as the project moves forward.

Sincerely Yours,

CWS ARCHITECTS Guy T. Labrecque, Jr.



Portland ME 04101-2325

Guy T. Labrecque - Architect

Phone: Fax:

207.774.4441 207.774.4016

E-mail: GLabrecque@CWSarch.com

May 30, 2002

CODE COMPLIANCE REPORT

Renovations to the Carvel Building at HP Hood for a **Bottle Manufacturing Facility and Bottle Conveyor**

BOCA AND LIFE SAFETY CODES REVIEW

1.0 Codes Review

Description of Building's Function and Program:

The project consists of renovations and removals to the existing Carvel office and warehouse building at Park Avenue and St. John Street in Portland. The office building portion is a two-story wood framed masonry structure. Fastened to the back of this portion is an existing one-story metal clad, steel framed warehouse building raised upon concrete beams and piers. The scope of work includes the removal and replacement of the one-story metal clad warehouse portion of the complex with only minor circulation modifications to the office structure as require by code. The existing concrete foundation system shall remain and or be reinforced as required for new bottle manufacturing equipment.

1.0.A Occupant Classification(s):

BOCA 1999:

The facility will be manufacturing Plastic Milk Bottles. Use Group F-1 Moderate Hazard

IBC 2000:

Factory Group F-1 Moderate Hazard

NFPA 101:

Chapter 40: "Industrial Occupancies - Special Purpose - Ordinary Hazard"

1.0.B Boca Specific Occupancy Areas relative to the Scope of this Project:

Not Applicable to the spaces within the scope of this project.

1.0.C Building Height and Area Limitations:

Building Height:

BOCA 1999 - Chapter 5, Table 503

Type 2C Construction
Allowable: w/o sprinkler
2 Stories: 30'-0"

IBC 2000 - Chapter 5, table 503

Type 2B Construction
Allowable: w/o sprinkler
3 Stories – 55'-0"

Proposed: The replacement building will be (1) story with a maximum building height of 20'-0".

Building Area:

BOCA – Chapter 5, Table 503

Type 2C Construction

Allowable: w.o. sprinkler & access adjustments:
9,600 s.f. per floor

Allowable: w/ access adjustments:

9,600 s.f. per floor

+14,400 s.f. (adjustment due to 75% of the building providing fire vehicle access.)

24,000 total s.f. allowable per floor level

IBC - Chapter 5, Table 503

Type 2B Construction

Allowable: w.o. sprinkler & access adjustments:

23,000 s.f. per floor

Allowable: w/ access adjustments:

23,000 s.f. per floor

+34,500 s.f. (adjustment due to 75% of the building providing fire vehicle access.)

57,500 total s.f. allowable per floor level

Proposed: The proposed building area will be approximately 3,500 s.f.

1.0.D Type of Construction:

NFPA 220: Type II, 111 BOCA 1999: Type 2C

The building will consist of the following assemblies;

Structural System:

Steel W-section columns and beams

Steel bar joists w/ metal decking and concrete slab floor systems

Exterior Walls:

Insulated Metal Panel Wall Assemblies

Interior Walls:

Cold Formed Metal studs

5/8" Type "X" gypsum wall board through out.

Roof Framing:

Steel beams and bar joists EPDM Roofing system

1.0.E Required Fire Resistance Ratings of applicable Structure Elements:

BOCA 1999 - Table 602

Element	<u>2C</u>	
Exterior Load Bearing Walls (Fire Separation Distance is to remain unchanged)	n/a	
Fire walls and party walls	2 hrs	
Fire Separation Assemblies Fire Enclosure of exits	2 hrs	
Shafts and Elevator Hoistways	2 hrs	
Mixed use and Fire area separations(Section 313.0) F-2 from B	Table 313.1.2 2 hrs	
Fire Partitions: Exit Access Corridors (Table 1011.4) – with an Automatic Sprinkler System		
Use Group F-2 Corridor capacity > 30	1 hr	
Smoke Barriers	1 hr	
Other Non-load Bearing Partitions	0 hrs	
Interior load bearing Partitions, Columns, etc. Supporting more than (1) floor Supporting (1) floor only or a roof only	0 hrs 0 hr 0 hr	
Floor Construction including Beams	0 hr	
Roof Construction 20' or more to lowest member	0 hrs	

NFPA 101

Exit Access Corridors: 7.1.3.1 (Occupant load >30) 1 hr Fire Enclosure of Exits: 7.1.3.2(a) Serving 3-stories or less 1 hr

Vertical Openings shall be fully enclosed floor to

floor or floor to roof: 8.2.5.4

1.0.F Means of Egress:

BOCA 1999 - Chapter 10: Table 1008.1.2 IBC 2000 - Chapter 10: Table 1003.2.2.2 NFPA 101 - Chapter 7: Table 7.3.1.2

Occupant Load BOCA: Industrial Use: 100 gross s.f. / per occupant

Occupant Load IBC: Industrial Use: 100 gross s.f. / per occupant

Occupant Load NFPA: Special Industrial Use: Max. Probable occupants at any time

Building Occupant Load @ 3,500 s.f. = 35 people

Actual count will be 5-10 people in the worse case.

Minimum Number of Exits:

BOCA 1999 - Chapter 1010.2 & 1010.3

Due to the travel distance being greater than 75 feet, two means of egress will be required. 50% (1) Means of Egress shall be "Accessible".

IBC 2000 - Chapter 1005

Due to the travel distance being greater than 75 feet, a second means of egress will be required.

NFPA 101 - Chapter 40

Not less than two means of Egress shall be provided.

Capacity of Egress Components:

Element Minimum Allowable

Exit Access Corridors:

Width

Doors:

Width 32 inches clear

The existing corridors and proposed corridors conform.

The existing and proposed doors conform.

44 inches clear

Egress Arrangement:

Factory F-2 Use: BOCA 1999

Dead-end corridor (1011.2)	20 ft
Exit Access Travel Distance (1006.5)	300 ft
Common Path of Travel (1011.2.1)	75 ft

Factory F-2 Use: IBC 2002

Dead-end corridor (1011.2)	20 ft
Exit Access Travel Distance (1004.2.4)	300 ft
Common Path of Travel (1004.2.5)	75 ft

Industrial Use: NFPA 101

Dead-end corridor	50 ft
Common Path of Travel	100 ft
Travel Distance to an Exit	200 ft

1.0.G Emergency Lighting: NFPA 20.2.9

Emergency Lighting is required.

1.0.H Interior Finish System:

BOCA 1999 - Chapter 8 IBC 2000 - Chapter 8 NFPA 101 - Shall be per Chapter 10

Wall and Ceiling Finishes:	NFPA	BOCA
Vertical Exits	Class A, B or C	Class I
Exit Access Corridors	Class A, B or C	Class II
All other spaces	Class A, B or C	Class III

Floor Finishes:

Vertical Exits / Exit Corridors	No Requirements	Class II
---------------------------------	-----------------	----------

1.0.1 Detection, Alarm, and Communications:

BOCA 1999 - Chapter 9 IBC 2000 - Chapter 9 NFPA 101 - Chapters 40 and 9

A manual fire alarm system is required by NFPA 40.3.4.2 but not by either BOCA or IBC.

1.0.J Extinguishing Requirements:

BOCA - Chapter 9 IBC 2000 - Chapter 9 NFPA 101 - Chapter 40

- * An Automatic Fire Suppression System is not required by the above codes.
- * Portable fire extinguishers are not required by the above codes.

2.0 GENERAL BUILDING COMPONENTS

2.0.A Stair Assemblies

BOCA 1999 - Chapter 10

Maximum Riser Height	7"
Minimum Rise Height	4"
Minimum Tread Depth	11"
Minimum Head Room	80" (6'-8")
Maximum Vertical Rise to Landing	12'-0"
Hand Rail Height	34" – 38"
Guardrail Height	42"

Baluster Spacing shall resist the passage of a 21" sphere in an F-2 Use Group

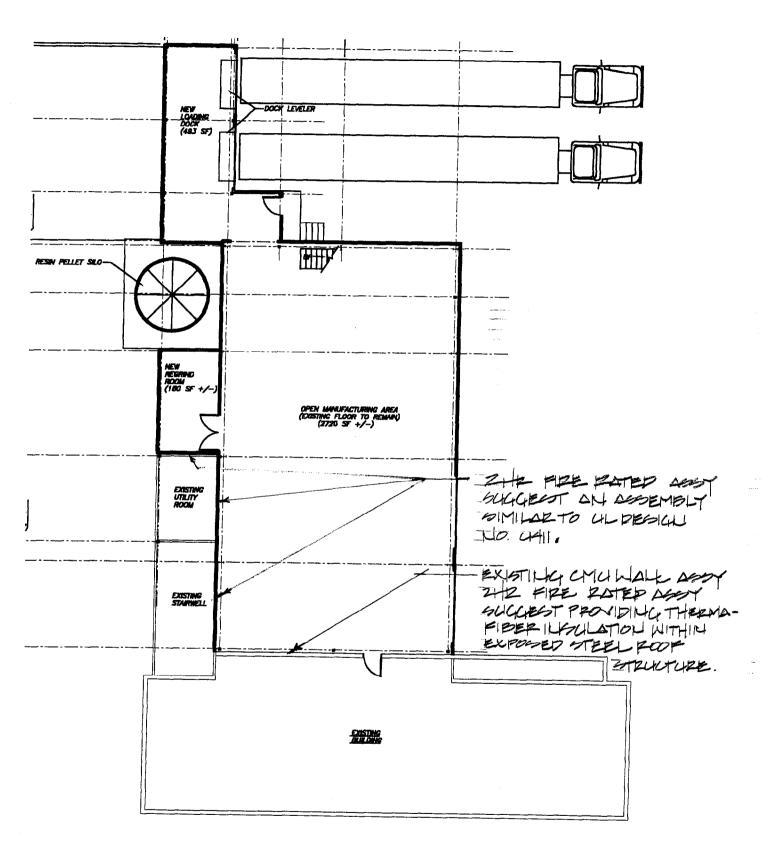
IBC 2000 - Chapter 10

Maximum Riser Height	7"
Minimum Rise Height	4"
Minimum Tread Depth	11"
Minimum Head Room	80" (6'-8")
Maximum Vertical Rise to Landing	12'-0"
Hand Rail Height	34" - 38"
Guardrail Height	42"

Baluster Spacing shall resist the passage of a 21" sphere in an F-2 Use Group

NFPA 101 - Chapter 10

Maximum Riser Height	7"
Minimum Rise Height	4"
Minimum Tread Depth	11"
Minimum Head Room	80" (6'-8")
Maximum Vertical Rise to Landing	12'-0"
Hand Rail Height	34" – 38"
Guardrail Height	42"
Baluster Spacing shall resist the passage of	a 4" sphere



FLOOR PLAN

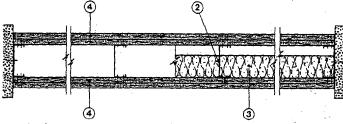
CHS APEHITECTS

Fire Resistance Ratings - ANSI/UL 263 (BXUV)-Continued

STANDARD GYPSUM L.L C -Type SG-C, SGC-1 or SGC-G. TEMPLE-INLAND FOREST PRODUCTS CORP — Type T, VPB-Type T or TG-C.

*Bearing the UL Classification Mark

Design No. U411 Nonbearing Wall Rating - 2 HR.



 Floor and Ceiling Runner — (Not Shown) — Min. 25 MSG (min 20 MSG when Item 4B is used) galv steel 1 in. high, return legs 2-1/2 in. wide (min), attached to floor and ceiling with fasteners 24 in. OC.
 Steel Studs — Min 2-1/2 in. wide, 1-1/4 in. legs, 3/8 in. return, formed of min 25 MSG (min 20 MSG when Item 4B is used) galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height height.

3. Batts and Blankets* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Fasten each batt to wallboard base layer with a min 9/16 in. long staple. Use five staples for each 4 ft piece. Drive one staple in the center of each piece and a staple at each

piece. Drive one staple in the center of each piece and a staple at each corner, approx 3 in. from edges.

See Batts and Blankets (BZJZ) category for names of manufacturers.

Gypsum Board* — 5/8 in. thick, outer layer paper or vinyl surfaced. (Laminated System) Wallboard applied vertically in two layers. Inner layer attached to studs with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges, and 12 in. OC in the field and outer layer in the steel animated to inner layer with inint companied and with a netched laminated to inner layer with joint compound, applied with a notched spreader producing continuous beads of compound about 3/8 in. in diameter, spaced not greater than 2 in. OC. Joints of laminated outer layer offset 12 in. from inner layer joints Outer layer wallboard attached to floor and ceiling runner track with 1-5/8 in. long Type S steel screws spaced 12 in. OC.

Optional, (Direct Attached System), Inner layer attached to studs with 1 in long Type S steel screws spaced 16 in. OC in the field and along the vertical edges. Outer layer attached to the stude over the inner layer with 1-5/8 in. long Type S steel screws spaced 16 in. OC in the field and along the vertical edges and 12 in. OC to the floor and ceiling runners. Joints of screw-attached outer layer offset from inner layer joints. Joints of outer layer may be taped or untaped.

Nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

AMERICAN GYPSUM CO—Type AG-C or AGX-11.

BEIJING NEW BUILDING MATERIALS CO LTD — Type

DBX-1.

BORAL GYPSUM INC —Type BG-C, DDDG3, DDG2 or DDN1.

BPB AMERICA INC

BPB CELOTEX —Type 1 or FRP.

CANADIAN GYPSUM COMPANY —Type AR, C, FCV, IP-AR, IP-XI, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

CONTINENTAL GYPSUM COMPANY —Types CG-3, CG-C, CG3-3, CG5-5, CG6-6, CG9-9, CGTC-C.

G-P GYPSUM CORP, SUB OF

GEORGIA-PACIFIC CORP —Types 5, 9, C, DGG, DS, GPFS6.

JAMES HARDIE GYPSUM INC —Types Fire X, Max"C".

LAFARGE GYPSUM, DIV OF

LAFARGE CORP —Types LGFC2, LGFC2A, LGFC3, LGFC6,

LAFARGE CORP —Types LGFC2, LGFC2A, LGFC3, LGFC6, LGFC6A, LGFC-C, LGFC-C/A. NATIONAL GYPSUM CO —Types FSW, FSW-3, FSW-C, FSW-G. NORGIPS A/S — NORFIRE X. PABCO GYPSUM, DIV OF

PACIFIC COAST BUILDING PRODUCTS INC -Type C, PG-3,

PG-5, PG-9 or PG-C.
REPUBLIC GYPSUM CO —Type RG-C.
SIAM GYPSUM INDUSTRY CO LTD —Type EX-1
STANDARD GYPSUM L L C —Type SGC, SG-C or SGC-G.
TEMPLE-INLAND FOREST PRODUCTS CORP —Types T,

TG-C, VPB-Type T.

UNITED STATES GYPSUM CO —Type AR, C, FCV, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX. WESTROC INC —Type Westroc Fireboard.

Fire Resistance Ratings - ANSI/UL 263 (BXUV)-Continued

YESO PANAMERICANO S A DE C V -- Type AR, C, FCV,

IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

4A. Gypsum Board — (As an alternate to Item 4) — Nom 3/4 in. thick, installed as described in Item 4 with 1-1/4 in. long Type S screws for inner layer and 2-1/4 in. long Type S screws for outer layer.

CANADIAN GYPSUM COMPANY —Types AR, IP-AR.

UNITED STATES GYPSUM CO—Types AR, IP-AR.

YESO PANAMERICANO S A DE C V —Types AR, IP-AR.

4B. Gypsum Board* — (As an alternate to Item 4 and 4A) — Nom 5/8 in. thick gypsum panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of the screws as specified under Item 4.

CANADIAN GYPSUM COMPANY—Type FRX. UNITED STATES GYPSUM CO—Type FRX.

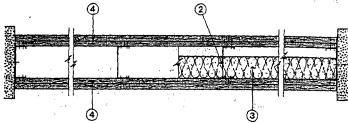
4C. Gypsum Board* — (As an alternate to Item 4, 4A and 4B)—5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 4 for the direct attached system .

CANADIAN GYPSUM COMPANY — Type SHX.

UNITED STATES GYPSUM CO —Type SHX. YESO PANAMERICANO S A DE C V — Type SHX.

*Bearing the UL Classification Mark

Design No. U412 Nonbearing Wall Rating - 2 HR.



 Floor and Ceiling Runner — (Not Shown) — 25 MSG (min) galv steel
 in. high, return legs 1-5/8 in. wide (min), attached to floor and ceiling with fasteners 24 in. OC.

with fasteners 24 in. OC.

2. Steel Studs — 1-5/8 in. wide (min), 1-1/4 in. legs, 1/4 in. return, formed of 25 MSG (min) galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

3. Batts and Blankets* — (Optional) — Mineral wool or glass fiber batts, partially or completely filling stud cavity. Fasten each batt to wallboard base layer with a min 9/16 in. long staple. Use five staples for each 4 ft long piece. Drive one staple in the center of each piece and a staple at each corner, approx 3 in. from edges.

See Batts and Blankets (BZIZ) category for names of manufacturers.

4. Gypsum Board* — 1/2 in. thick. Wallboard applied vertically in two layers. (Laminated System) Inner layer attached to studs with 1 in. long Type S steel screws spaced 24 in. O.C. along vertical edges and 24 in. O.C. in the field. Outer layer laminated to inner layer with joint com-

O.C. in the field. Outer layer laminated to inner layer with joint compound, applied with a notched spreader producing continuous beads of compound about 3/8 in. in diameter, spaced not greater than 2 in. O.C. Joints of laminated outer layer offset 12 in. from inner layer joints. Outer layer wallboard attached to inner layer with 1-1/2 in. long Type G steel screws spaced 24 in. O.C. along edges and center line of each

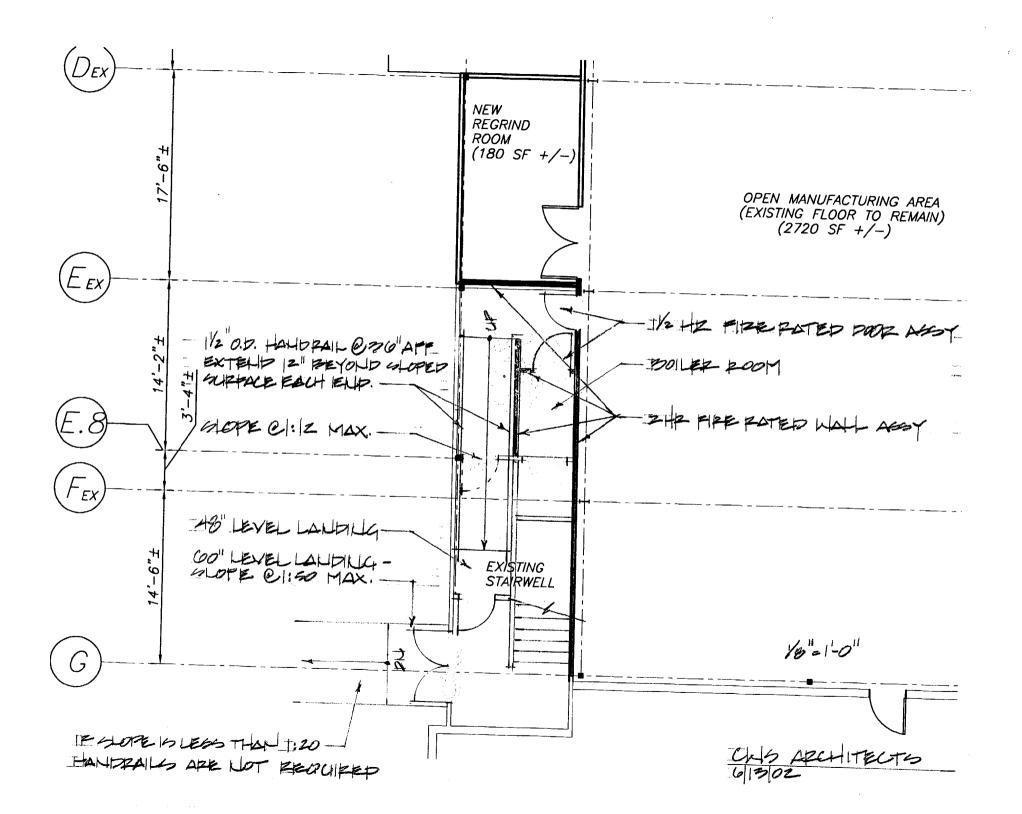
Optional, (Direct Attached System) Wallboard applied vertically in two layers. Inner layer attached to studs with 1 in. long Type S steel screws spaced 24 in. O.C. in the field and along the vertical edges. Outer layer attached to the studs over the inner layer with 1-5/8 in. long Type S steel screws spaced 12 in. O.C. in the field, along the vertical edges, and to the floor and ceiling runners. Joints of screw-attached outer layer offset from

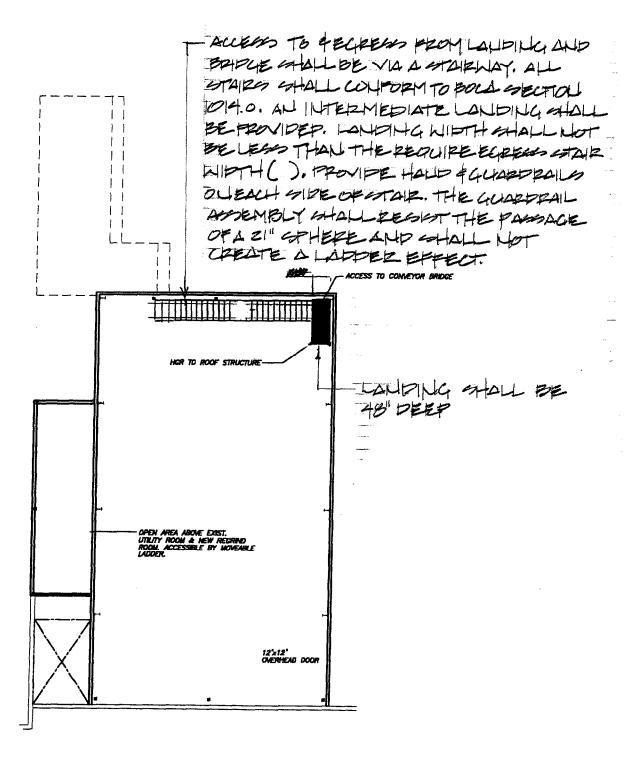
inner layer joints.

Optional, (Direct Attached System) Inner layer wallboard applied vertically, outer layer wallboard applied horizontally. Inner layer attached to studs with 1 in. Type S steel screws spaced 24 in. O.C. along vertical edges and in the field. Outer layer attached to the studs over the inner layer with 1-5/8 in. long Type S steel screws spaced 12 in. OC in the field, along the vertical edges, and to the floor and ceiling runners. Outer layer secured to inner layer wallboard with 1-1/2 in. long Type G steel screws located midway between studs and 1 in. from the horizontal joint.
Outer layer wallboard joints covered with joint tape and min two coats of

joint compound, and screw heads covered with min two coats of joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints

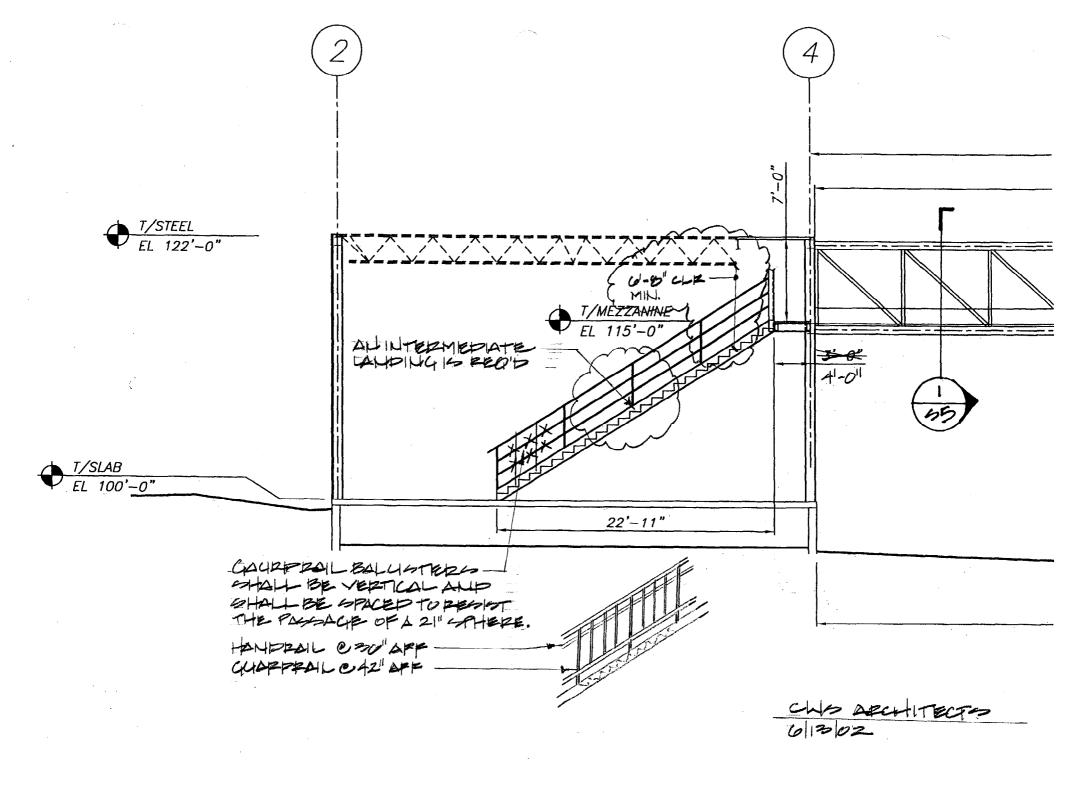
AMERICAN GYPSUM CO -Type AG-C.

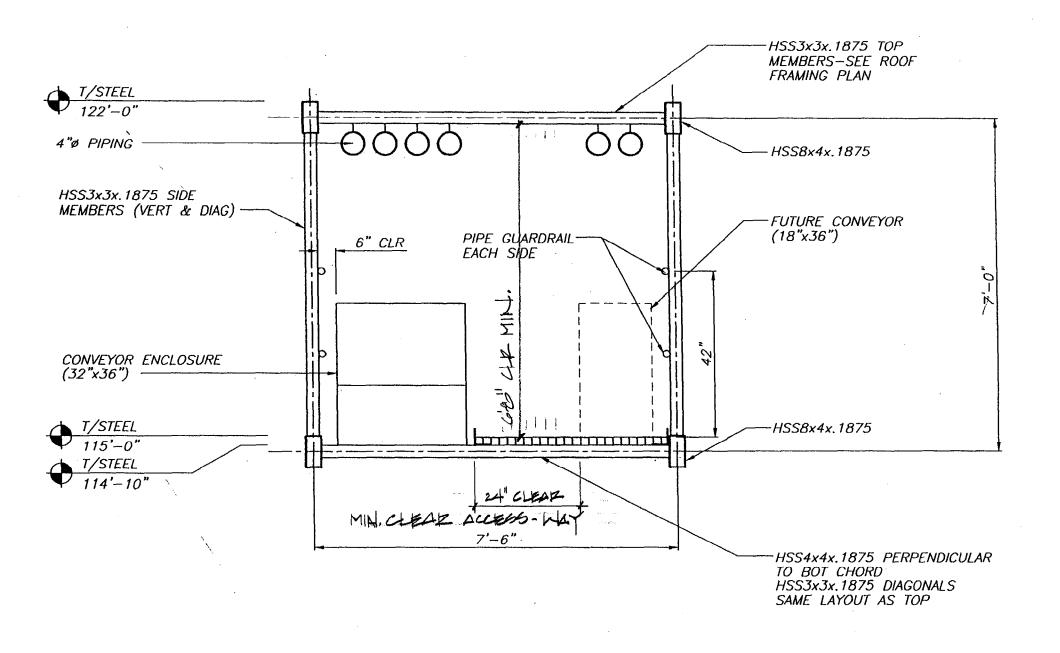




UPPER LEVEL PLAN

che pertects





SECTION 1 1/2"=1'-0" S5 THE APCHITECTS

other furnishings or fixtures, a path of travel that connects with each of the means of egress doorways serving the area and which complies with the minimum width requirements of aisles, shall be provided.

1011.1.1 Use Group I-2: In occupancies in Use Group I-2, suites of rooms, other than patient sleeping rooms, shall have no more than one intervening room where the travel distance within the suite to the exit access door is not greater than 100 feet (30480 mm) and shall have no more than two intervening rooms where the travel distance within the suite to the exit access door is not greater than 50 feet (15240 mm).

1011.1.2 Use Groups I-2 and I-3: Every sleeping room in occupancies in Use Group I-2 or I-3 shall have an exit access door leading directly to an exit access corridor.

Exception: Direct corridor access is not required:

- 1. Where there is an exit door opening directly to the outside from the room at ground level.
- 2. In occupancies in Use Group I-2, where one adjacent room, such as a sitting room or anteroom, intervenes and the intervening room is not used as an exit access for more than eight patients.
- 3. In occupancies in Use Group I-2, where a patient sleeping room is subdivided with nonfireresistance rated, noncombustible partitions, provided that the arrangement allows for direct and constant visual supervision by nursing personnel and the suite complies with this section and Section 1017.0. Such rooms which are so subdivided shall not exceed 5,000 square feet (465 m²).
- 4. In occupancies in Use Group I-3, where a dayroom or group activity space intervenes between an individual occupant sleeping room and the access to an 1011.3 Width: The minimum required width of passageways, exit, provided that the sleeping room opens directly to the day space and is not separated in elevation by more than one story.
- 1011.1.3 Turnstiles and gates: Access through turnstiles, gates, rails or similar devices shall not be permitted unless such a device is equipped to swing readily in the direction of exit travel under a total force of not more than 15 pounds
- 1011.1.4 Restrictions: The required width of passageways, aisle accessways, aisles and corridors shall be maintained free of projections and restrictions; except that the minimum clear width resulting from doors opening into such spaces shall be one-half of the required width. When fully open, the door shall not project more than 7 inches (178 mm) into the required width. Handrail projections are permitted in accordance with Section 1022.2.1.
- 1011.2 Dead ends: Exit access passageways and corridors in all stories which serve more than one exit shall provide direct connection to such exits in opposite directions from any point in the passageway or corridor, insofar as practicable. The length of a dead-end passageway or corridor shall not be more than 20 feet (6096 mm).

Exceptions

1. In occupancies in Use Group I-3 of Occupancy Condition II, III or IV (see Section 308.4), the dead end in a

- corridor, hallway or aisle shall not exceed 50 feet (15240 mm),
- 2. In occupancies in Use Group B where passageways are bounded by furniture, counters, partitions or similar dividers not more than 6 feet (1829 mm) in height, the length of a dead-end passageway shall not be more than 50 feet (15240 mm).
- 3. In occupancies in Use Group B where the building is equipped throughout with an automatic sprinkler system in accordance with Section 906.2.1, the length of dead-end corridors or passageways shall not exceed 50 feet (15240 mm).
- 4. Passageways or corridors within spaces with one means of egress.
- 5. A dead-end passageway or corridor shall not be limited in length where the length of the dead-end passageway or corridor is less than 2.5 times the least width of the dead-end passageway or corridor.

1011.2.1 Common path of travel: In occupancies in Use Group B, the length of a common path of travel shall not exceed 75 feet (22860 mm).

Exceptions

- 1. The length of a common path of travel in an occupancy in Use Group B shall not be more than 100 feet (30480 mm), provided that the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 906.2.1.
- 2. Where a tenant space in an occupancy in Use Group B has an occupant load of not more than 30, the length of a common path of travel shall not be more than 100 feet (30480 mm).
- aisle accessways, aisles and corridors shall be determined by the most restrictive of the following criteria:
 - 1. 44 inches (1118 mm) where serving an occupant load of greater than 50.
 - 2. 36 inches (914 mm) where serving an occupant load of 50
 - 3. 96 inches (2438 mm) in an occupancy in Use Group I-2 utilized for the movement of beds.
 - 4. 72 inches (1829 mm) in an occupancy in Use Group E with more than 100 occupants.
 - 5. The width required for capacity as determined by Section
 - 6. 24 inches (610 mm) for access to and utilization of electrical, mechanical, or plumbing systems or equipment.

Aisles and aisle accessways shall conform to the requirements of this section or Section 1012.0.

1011.3.1 Capacity: The required capacity of a corridor shall be determined by dividing the occupant load that utilizes the corridor for exit access by the number of exits to which the corridor connects, and shall be not less than the required capacity of the exit element to which the corridor leads.

1011.4 Enclosure: All corridors shall be fireresistance rated in accordance with Table 1011.4 based on the use group of the space and the total required capacity of all of the exits from the corridor. The corridor walls shall comply with Section 711.0.

1013.6.1 Aisle termination: Each end of an aisle shall terminate at a cross aisle, foyer, doorway, or vomitory having access to an exit.

Exceptions

- Where seats are without backrests, dead-ends in vertical aisles shall not exceed 16 rows.
- For smoke-protected assembly seating, with or without backrests, dead-end aisles shall not exceed 21 rows.
- 3. For smoke-protected assembly seating, with or without backrests, dead-end aisles longer than 21 rows are permitted where the seats beyond 21 rows are not more than 40 seats from another aisle, measured along a row of seats having an aisle accessway with a minimum clear width of 12 inches (305 mm) plus 0.3 inches (8 mm) for each additional seat above seven in a row.

1013.6.2 Row width: For smoke-protected assembly seating, the maximum number of seats in a row that has a minimum clear aisle accessway width of 12 inches (305 mm) shall be as specified in Table 1013.6.2.

Where the number of seats per row exceeds that specified in Table 1013.6.2, the minimum clear aisle accessway width for rows served by aisles or doorways at both ends shall be 12 inches (305 mm) plus 0.3 inch (7.5 mm) for every additional seat beyond that specified in Table 1013.6.2 and there shall be not more than 100 seats per row; and for rows served by an aisle or doorway at only one end of the row, the minimum clear aisle accessway width shall be 12 inches (305 mm) plus 0.6 inch (15 mm) for every additional seat beyond that specified in Table 1013.6.2.

Table 1013.6.2
ROW LENGTH WITH 12-INCH AISLE ACCESSWAY
SMOKE-PROTECTED ASSEMBLY SEATING

Total number of seats in the space	minimum 12-inch	No. of seats per row permitted to have a minimum 12-inch ^a clear width aisle accessway						
in the space	Aisle or doorway at both ends of row	Aisle or doorway at one end of row						
Less than 4,000	14	7						
4,000	15	7						
7,000	16	8						
10,000 13,000	17 18	8 9						
16,000	19	9						
19,000	20	10						
22,000 or more	21	11						

Note a. 1 inch = 25.4 mm.

1013.6.3 Single access row: For rows of seating served by an aisle or doorway at only one end of the row in smoke-protected assembly seating, the *common path of travel* from any seat to a point where a person has a choice of two directions of egress travel shall not exceed 50 feet (15240 mm).

1013.7 Bleacher footboards: Bleacher footboards shall be provided for all rows of seats above the third row or beginning at such a point where the seatboard is more than 2 feet (610 mm) above the ground or floor surface below. A separate footboard is

not required where the seatboard is used for both seating and the footboard, provided that each level or *platform* is not less than 24 inches (610 mm) wide. On a horizontally projected plane, horizontal gaps between footboards and seatboards shall not exceed $\frac{1}{4}$ inch (6 mm). Openings between footboards and seatboards which are located more than 30 inches (762 mm) above the floor or grade below shall be provided with intermediate construction such that a sphere with a diameter of 4 inches (102 mm) cannot pass through the opening.

1013.8 Spaces underneath seats: Spaces underneath grandstand seats shall be kept free of all combustible and flammable materials and shall not be occupied or used for other than exits; except that where enclosed in not less than 1-hour fireresistance rated construction, the code official shall approve the use of such spaces for other purposes, provided that the safety of the public is not endangered.

SECTION 1014.0 STAIRWAYS

1014.1 General: All stairways shall comply with the provisions of this section. Section 1014.11 shall be applicable only to interior stairways. Section 1014.12 shall be applicable only to exterior stairways.

1014.1.1 Walking surface slope: The maximum slope of the walking surface of treads and landings shall be one unit vertical in 48 units horizontal (1:48).

Exception: The maximum slope shall not apply to portions of treads that are rounded or beveled in accordance with Section 1014.6.1.

1014.2 Egress capacity: The egress capacity of *stairways* and doors shall be computed in accordance with Section 1009.0.

1014.3 Width: All means of egress stairways shall not be less than 44 inches (1118 mm) in width.

Exceptions

- 1. Stairways serving buildings of single-exit construction where permitted by Section 1010.3 shall not be less than 36 inches (914 mm) in width.
- 2. Spiral stairways as provided for in Section 1014.6.4.
- 3. Stairways serving a single residential dwelling unit shall not be less than 36 inches (914 mm) in width.
- Stairways serving buildings having a total occupant load of 50 or less shall not be less than 36 inches (914 mm) in width.
- 5. Where a stairway lift is installed on stairways serving occupancies in Use Group R-3 or within dwelling units in occupancies in Use Group R-2, a clear passage width not less than 20 inches (508 mm) shall be provided.

1014.3.1 Restrictions: Means of egress stairways shall not reduce in width in the direction of egress travel. Projections into a required stairway width are prohibited.

Exceptions

- 1. At and below handrail height where, at each handrail, projections into the required width of a stairway shall not exceed 4½ inches (114 mm).
- 2. Above the minimum headroom height required in Section 1014.4, projections into the required width shall not be limited.



1014.3.2 Landing width: The least dimension of landings and platforms in means of egress stairways shall not be less than the required width of the stairway, except that the landing dimension in the direction of egress travel is not required to exceed 4 feet (1219 mm) where the travel from one stair flight to the next stair flight is a straight run.

1014.4 Headroom: The minimum headroom in all parts of a stairway shall not be less than 80 inches (2032 mm), or 78 inches (1981 mm) for a spiral stairway, measured vertically from the tread nosing or from the floor surface of the landing or platform.

1014.5 Vertical rise: A means of egress stairway shall not have a height of vertical rise of more than 12 feet (3658 mm) between landings and intermediate platforms.

1014.6 Treads and risers: Maximum riser height shall be 7 inches (178 mm) and minimum riser height shall be 4 inches (102 mm). The riser height shall be measured vertically between the leading edges of the adjacent treads. Minimum tread depth shall be 11 inches (279 mm), measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge.

Exceptions

- 1. Winders in accordance with Section 1014.6.3.
- 2. Spiral stairways in accordance with Section 1014.6.4.
- 3. Circular stairways in accordance with Section 1014.6.5.
- 4. Alternating tread stairways in accordance with Section 1014.6.6.
- 5. Stairways serving as aisles in assembly seating areas where the stairway pitch or slope is set, for sightline reasons, by the slope of the adjacent seating area.
- 6. Any stairway replacing an existing stairway within a space where, because of existing construction, the pitch or slope cannot be reduced.
- 7. Existing stairways.
- 8. In occupancies in Use Group R-3, within dwelling units in occupancies in Use Group R-2 and in occupancies in Use Group U which are accessory to an occupancy in Use Group R-3, the maximum riser height shall be 73/4 inches (197 mm) and the minimum tread depth shall be 10 inches (254 mm). A nosing not less than ³/₄ inches (19 mm) but not more than 1¹/₄ inches (32 mm) shall be provided on stairways with solid risers where the tread depth is less than 11 inches (279 mm).
- 9. Stairways in penal facilities serving guard towers, observation stations and control rooms not more than 250 square feet (23 m³) in area shall be permitted to have risers not exceeding 8 inches (203 mm) in height and treads not less than 9 inches (229 mm) in depth.

1014.6.1 Profile: The radius of curvature at the leading edge of the tread shall not be greater than $\frac{1}{2}$ inch (13 mm). Bevelling of nosings shall not exceed $\frac{1}{2}$ inch (13 mm). Risers shall be solid and vertical or sloped from the underside of the leading edge of the tread above at an angle not more than 30 degrees (0.52 rad) from the vertical. The leading edge of treads shall project not more than 11/4 inches (32 mm) beyond the tread below.

Exceptions

- 1. Solid risers are not required for stairways serving dwelling units which are not required to be accessible in accordance with Section 1107.4.2, provided that the opening between treads does not permit the passage of a sphere with a diameter of 4 inches (102
- 2. Solid risers are not required for occupancies in Use Group I-3.
- 3. Solid risers are not required for stairways serving factory or storage occupancies which are not required to be accessible.

1014.6.2 Dimensional uniformity: There shall not be variation exceeding ³/₁₆ inch (5 mm) in the depth of adjacent treads or in the height of adjacent risers. The tolerance between the largest and smallest riser or between the largest and smallest tread shall not exceed 3/8 inch (10 mm) in any flight of stairs.

Exceptions

- 1. Where the bottom riser adjoins a sloping public way, walk or driveway which has an established grade and serves as a landing, a variation in the height of the bottom riser shall not exceed 3 inches (76 mm) in every 3 feet (914 mm) of stairway width.
- 2. On stairways serving as aisles in assembly seating, where necessitated by changes in the gradient of adjoining seating areas to maintain adequate sightlines, the maximum nonuniformity of riser heights within a flight and the nonuniformity between adjacent risers shall not apply. Where a nonuniformity exceeds ³/₁₆ inch (5 mm) between adjacent risers, the exact location of the nonuniformity shall be indicated with a distinctive marking stripe on each tread at the nosing or leading edge adjacent to the nonuniform risers.

1014.6.3 Winders: Winders shall not be permitted in required means of egress stairways except stairways serving a single dwelling unit. Such winders shall have a tread depth of not less than 10 inches (254 mm) at a point not more than 12 inches (305 mm) from the side where the tread is narrower and the minimum tread depth shall not be less than 6 inches (152 mm). The continuous handrail required by Section 1014.7 shall be located on the side where the tread is narrower.

1014.6.4 Spiral stairways: Spiral stairways shall not be used as an element of a means of egress except: within a single dwelling unit; from a mezzanine area not more than 250 square feet (23 m²) in area which serves not more than five occupants; and in penal facilities from a guard tower, observation station or control room not more than 250 square feet (23 m²) in area. The minimum width of all spiral stairways shall be 26 inches (660 mm) with each tread having a 7½-inch (191 mm) minimum tread depth at 12 inches (305 mm) from the narrow edge. All treads shall be identical and the rise shall

not be more than $9\frac{1}{2}$ inches (241 mm). A minimum headroom of 6 feet 6 inches (1981 mm) shall be provided.

1014.6.5 Circular stairways: Circular stairways shall have a minimum tread depth and a maximum riser height in accordance with Section 1014.6 and the smaller radius shall not be less than twice the width of the stairway. The minimum tread depth measured 12 inches (305 mm) from the narrower end of the tread shall not be less than 11 inches (279 mm).

stairways are permitted as an element of a means of egress in buildings from a mezzanine area not more than 250 square feet (23 m²) in area and which serves not more than five occupants; and in penal facilities, from a guard tower, observation station or control room not more than 250 square feet (23 m²) in area. Alternating tread stairways are also permitted for access to roofs as provided for in Section 1027.0.

1014.6.6.1 Handrails of alternating tread stairways: Handrails shall be provided on both sides of alternating tread stairways and shall conform to Section 1022.0.

1014.6.6.2 Treads of alternating tread stairways: Alternating tread stairways shall have a minimum projected tread of 5 inches (127 mm), a minimum tread depth of 8½ inches (216 mm), a minimum tread width of 7 inches (178 mm) and a maximum riser to the next surface of the alternating tread of 9½ inches (241 mm). The initial tread of the stairway shall begin at the same elevation as the platform, landing or floor surface.

Exception: Alternating tread stairways used as an element of a means of egress in buildings from a mezzanine area not more than 250 square feet (23 m²) in area which serves not more than five occupants shall have a minimum projected tread of $8^{1}/_{2}$ inches (216 mm) with a minimum tread depth of $10^{1}/_{2}$ inches (267 mm). The rise to the next alternating tread surface shall not be more than 8 inches (203 mm).

1014.7 Stairway guards and handrails: Stairways shall have continuous handrails on both sides. Guards shall be provided where required by Section 1005.5. Intermediate handrails are required so that all portions of the required width of stairs are within 30 inches (762 mm) of a handrail. On monumental stairs, handrails shall be located along the most direct path of egress travel. Handrails shall be provided for alternating tread stairways in accordance with Section 1014.6.6.1. Guards shall be constructed in accordance with Section 1021.0. Handrails shall be constructed in accordance with Section 1022.0.

Exceptions

- 1. Stairways with fewer than three risers are not required to have handrails where serving a single dwelling unit or where such stairways are not in an exit access corridor or aisle, exit or exit discharge.
- Aisle stairs provided with a center handrail or serving seating on one side shall be equipped with a minimum of one handrail.
- 3. Stairways within a dwelling unit shall be equipped with a minimum of one handrail.

4. Spiral *stairways* shall be equipped with a minimum of one handrail.

1014.8 Egress doors: Means of egress stairway doors shall provide an egress capacity of not less than the required capacity of the stairway which serves the floor or area from which the egress door leads.

1014.8.1 Width: The minimum required width of every door to or from a means of egress stairway shall be determined by the most restrictive of the following criteria:

- 1. 29 ³/₄-inch (756 mm) clear width within a dwelling unit that is not required to be accessible.
- 2. 32-inch (813 mm) clear width in all other cases.

1014.8.2 Direction of swing: All means of egress doors shall swing on a landing in the direction of egress travel. When opening, egress doors shall not reduce the width of landings to less than one-half of the required width. When fully open, means of egress doors shall not project more than 7 inches (178 mm) into the required width.

Exception: Doors leading from a room or tenant space to a *stairway* in buildings in which only one *exit* is required are not required to swing in the direction of egress travel.

1014.8.3 Door construction: All doorway opening protectives shall be *fire doors* complying with Section 717.0.

1014.8.4 Maximum transmitted temperature: Labeled means of egress fire doors shall have a maximum transmitted temperature end point of not more than 450 degrees F. (232 degrees C.) above ambient at the end of 30 minutes of standard fire test exposure.

Exception: The maximum transmitted temperature end point is not required in buildings equipped throughout with an automatic sprinkler system in accordance with Section 906.2.1 or 906.2.2.

1014.9 Stairway construction: All stairways shall be built of materials consistent with the types of materials permitted for the type of construction of the building; except that wood handrails shall be permitted for all types of construction. Such stairways shall have solid treads and landing platforms, and all finish floor surfaces shall be of securely attached, slip-resistant materials.

Exception: In Use Group F, H and S occupancies, other than areas of parking structures accessible to the public, openings in treads and landing *platforms* shall not be prohibited provided a sphere with a diameter of 1.125 inches (28 mm) cannot pass through any opening.

1014.9.1 Strength: All stairways, platforms and landings shall be adequate to support a live load of 100 pounds per square foot (4788 Pa) and a concentrated load of 300 pounds (1334 N).

1014.10 Discharge identification: Exit stairways which continue beyond the level of exit discharge shall be interrupted at the level of exit discharge by partitions, doors or other effective means of preventing persons from continuing past the floor of discharge while egressing.

1014.11 Interior stairway enclosures: Interior exit stairways shall be enclosed with fire separation assemblies having a

fireresistance rating of not less than 2 hours except that such stairways in occupancies in Use Group A, B, E, F, H-4, I, M, R or S which connect less than four stories shall be enclosed with fire separation assemblies having a fireresistance rating of not less than 1 hour. An exit stairway enclosure shall not be used for any purpose other than means of egress. Openings in exit enclosures, other than unexposed exterior openings, shall be limited to those necessary for exit access to the enclosure from normally occupied spaces and for egress from the enclosure.

Exceptions

- 1. Stairways are not required to be enclosed in occupancies in Use Group A-5 in which all portions of the means of egress are essentially open to the outside.
- 2. Stairways serving and contained within a single residential dwelling unit in occupancies in Use Group R-2 or R-3 are not required to be enclosed.
- 3. Stairways that are not a required means of egress element are not required to be enclosed where such stairways comply with Section 713.3.
- 4. Stairways in open parking structures which serve only the parking structure are not required to be enclosed.
- 5. Stairways in occupancies in Use Group I-3 as provided for in Section 410.3.7.
- 6. Means of egress stairways as required by Section 412.5.4 are not required to be enclosed.
- 7. Stairways as required by Section 422.3(5) are not required to be enclosed.

1014.11.1 Exterior walls: Exterior walls of an enclosed exit stairway shall comply with the requirements of Section 705.0 for exterior walls. Where nonrated walls or unprotected openings enclose the exterior of the stairway and the walls or openings are exposed by other parts of the building at an angle of less than 180 degrees (3.14 rad), the building exterior walls within 10 feet (3048 mm) horizontally of a nonrated wall or unprotected opening shall be constructed as required for stairway enclosures, including opening protectives, but are not required to exceed a 1-hour fireresistance rating with ³/₄-hour opening protectives. This construction shall extend vertically from a point 10 feet (3048 mm) above the topmost landing of the stairway or to the roof line, whichever is lower, and down to the ground.

1014.11.2 Penetrations: Penetrations into and openings through an exit enclosure assembly are prohibited except for required exit doors, ductwork and equipment necessary for independent stair pressurization, required ventilation, sprinkler piping, standpipes and electrical conduit serving the stairway and terminating at a steel box that does not exceed 16 square inches (10323 mm²) in area. There shall not be any penetrations or communicating openings, whether protected or not, between adjacent stairway enclosures.

1014.11.3 Door locks: All interior stairway means of egress doors shall be openable from both sides without the use of a key or special knowledge or effort.

Exceptions

 Stairway discharge doors shall be openable from the egress side and shall only be locked from the opposite side. 2. This section shall not apply to doors arranged in accordance with Section 403.10 or 1017.4.

1014.11.4 Exit signs: Each door to an enclosed exit stairway shall be equipped with tactile signage reading "Exit" complying with ICC A117.1 listed in Chapter 35 and installed on the side of the door from which egress is to be made.

1014.11.5 Stairway floor number signs: A sign shall be provided at each floor landing in all interior exit stairways connecting more than three stories designating the floor level above and below the level of exit discharge, the identification of the stairway and the availability of roof access from that stairway. The sign shall be located approximately 5 feet (1524 mm) above the floor landing in a position which is readily visible when the doors are in the open and closed positions.

1014.12 Exterior stairways: Exterior stairways shall be open on at least one side facing an outer court, yard or public way. The exterior wall openings shall be permitted to be reduced by 6 inches (153 mm) at each side, by 42 inches (1067 mm) above adjacent floors or landings, and by 12 inches (305 mm) below adjacent ceilings or landings such that no less than 35 square feet (3.25 m²) of opening is provided at any adjacent floor level or landing. In other than occupancies in Use Group R-3, and occupancies in Use Group U that are accessory to an occupancy in Use Group R-3, treads, platforms and landings which are part of exterior stairways in climates subject to snow or ice shall be protected to prevent accumulation of same. Exterior stairways shall not be accepted as an exit in the following cases:

- 1. Occupancies in Use Groups I-2 and I-3 in buildings that exceed four stories or 50 feet (15240 mm) in *height*.
- 2. Floors that exceed five stories or 65 feet (19812 mm) in height above the level of exit discharge.

1014.12.1 Location: Exterior exit stairways shall not project beyond the street lot line. Exterior exit stairways shall be located at least 10 feet (3048 mm) from adjacent lot lines and from other buildings on the same lot unless openings in such buildings are protected by $\frac{3}{4}$ -hour opening protectives.

Exception: Noncombustible exterior stairways constituting not more than 50 percent of the required means of egress shall be exempt from the 10-foot (3048 mm) fire separation distance requirement.

1014.12.2 Protection: Exterior *exit* stairs shall be separated from the interior of the building by walls with a fireresistance rating of not less than 1 hour, with fixed or self-closing opening protectives as required in Section 1014.11. This protection shall extend vertically from a point 10 feet (3048 mm) above the topmost landing or the roof line, whichever is lower, down to the ground, and shall extend horizontally 10 feet (3048 mm) from each side of the *stairway*. Openings within the horizontal 10-foot (3048 mm) extension of the protected walls beyond the *stairway* shall be equipped with fixed ³/₄-hour opening protective assemblies.

Exceptions

1. Occupancies, other than those in Use Group R-1 or R-2, in buildings that are two *stories* or less *above* grade where the *level of exit discharge* is the first story above grade.

- 2. Separation from the interior of the building is not required where the exterior stairway is served by an exterior exit access balcony that connects two remote exterior stairways or other approved exits, with a perimeter which is not less than 50 percent open. To be considered open, the opening shall be a minimum of 50 percent of the height of the enclosing wall, with the top of the openings not less than 7 feet (2134 mm) above the top of the balcony.
- 3. Separation from the interior of the building is not required for an exterior *stairway* located in a building or structure that is permitted to have unenclosed interior *exit stairways* in accordance with Section 1014.11.

SECTION 1015.0 SMOKEPROOF ENCLOSURES

- 1015.1 General: A smokeproof enclosure shall consist of an enclosed interior exit stairway that conforms to Section 1014.0 and an outside balcony or a ventilated vestibule meeting the requirements of this section. Where access to the roof is required by Section 1027.0, such access shall be from the smokeproof enclosure where a smokeproof enclosure is required.
- 1015.2 Where required: All exit stairways serving occupants of a floor level located more than 75 feet (22860 mm) above the level of exit discharge, or located more than 30 feet (9144 mm) below the level of exit discharge serving such floor levels, shall be protected by a smokeproof enclosure.

Exception: Occupancies in Use Group I-2.

- 1015.3 Access: Access to the stair shall be from every story and shall be by way of a vestibule or by way of an open exterior balcony, except that a vestibule or balcony is not required for a smokeproof enclosure that consists of a pressurized stairway complying with Section 1015.7. The minimum dimension of the vestibule shall not be less than the required width of the corridor leading to the vestibule but shall not have a width of less than 44 inches (1118 mm) and shall not have a length of less than 72 inches (1829 mm) in the direction of egress travel.
- 1015.4 Construction: The smokeproof enclosure shall be separated from the remainder of the building by not less than a 2-hour fireresistance rated fire separation assembly without openings other than the required means of egress doors. The vestibule shall be separated from the stairway by not less than a 2-hour fireresistance rated fire separation assembly. The open exterior balcony shall be constructed in accordance with the fireresistance rating requirements for floor construction.
 - 1015.4.1 Door closers: All doors in a smokeproof enclosure shall be self-closing or shall be automatic-closing by actuation of a smoke detector installed at the floor side entrance to the smokeproof enclosure in accordance with Section 717.5. The actuation of the smoke detector on any door shall activate the closing devices on all doors in the smokeproof enclosure at all levels. Smoke detectors shall be installed in accordance with Section 919.8.
- 1015.5 Natural ventilation alternative: The provisions of Sections 1015.5.1 through 1015.5.3 shall apply to ventilation of smokeproof enclosures by natural means.

- 1015.5.1 Balcony doors: Where access to the *stairway* is by way of an open exterior balcony, the door assembly into the enclosure shall be a *fire door* in accordance with Section 717.0.
- 1015.5.2 Vestibule doors: Where access to the *stairway* is by way of a vestibule, the door assembly into the vestibule shall be a *fire door* complying with Section 717.0. The door assembly from the vestibule to the *stairway* shall have not less than a 20-minute *fire protection rating* complying with Section 717.0.
- 1015.5.3 Vestibule ventilation: Each vestibule shall have a minimum net area of 16 square feet (1.5 m²) of opening in a wall facing an *outer court*, yard or *public way* which is at least 20 feet (6096 mm) in width.
- **1015.6** Mechanical ventilation alternative: The provisions of Sections 1015.6.1 through 1015.6.4 shall apply to *ventilation* of *smokeproof enclosures* by mechanical means.
 - 1015.6.1 Vestibule doors: The door assembly from the building into the vestibule shall be a *fire door* complying with Section 717.0. The door assembly from the vestibule to the *stairway* shall have not less than a 20-minute *fire protection rating* in accordance with Section 717.0. The door from the building into the vestibule shall be provided with gaskets or other provisions to minimize air leakage.
 - 1015.6.2 Vestibule ventilation: The vestibule shall be supplied with not less than one air change per minute, and the exhaust shall not be less than 150 percent of supply. Supply air shall enter and exhaust air shall discharge from the vestibule through separate, tightly constructed ducts used only for that purpose. Supply air shall enter the vestibule within 6 inches (152 mm) of the floor level. The top of the exhaust register shall be located at the top of the smoke trap but not more than 6 inches (152 mm) down from the top of the trap, and shall be entirely within the smoke trap area. Doors in the open position shall not obstruct duct openings. Duct openings with controlling dampers are permitted where necessary to meet the design requirements, but dampers are not otherwise required.
 - 1015.6.2.1 Engineered ventilation system: Where a specially engineered system is used, the system shall exhaust a quantity of air equal to not less than 90 air changes per hour from any vestibule in the emergency operation mode and shall be sized to handle three vestibules simultaneously. Smoke detectors shall be located at the floor side entrance to each vestibule and shall activate the system for the affected vestibule. Smoke detectors shall be installed in accordance with Section 919.8.
 - 1015.6.3 Smoke trap: The vestibule ceiling shall be at least 20 inches (508 mm) higher than the door opening into the vestibule to serve as a smoke and heat trap and to provide an upward moving air column. The height shall not be decreased unless approved and justified by design and test.
 - 1015.6.4 Stair shaft air movement system: The stair shaft shall be provided with a dampered relief opening and supplied with sufficient air to maintain a minimum positive pressure of

CHAPTER 28

MECHANICAL SYSTEMS

SECTION 2801.0 GENERAL

2801.1 Scope: The provisions of this chapter shall control the construction, inspection and maintenance of all mechanical equipment and systems in respect to structural strength, fire safety and operation.

2801.2 Mechanical code: All mechanical equipment and systems shall be constructed, installed and maintained in accordance with the mechanical code listed in Chapter 35.

SECTION 2802.0 DEFINITIONS

Equipment platform: An unoccupied elevated platform used exclusively for building mechanical systems or industrial process equipment. An equipment platform shall include the associated elevated walkways, stairs, and ladders accessing the platform.

SECTION 2803.0 CONSTRUCTION DOCUMENTS

2803.1 General: The construction documents for the installation, repair, extension or removal of any mechanical equipment or system shall be submitted in accordance with the mechanical code listed in Chapter 35, and a permit shall be secured prior to the commencement of any work.

2803.2 Matter covered: The construction documents shall show in sufficient detail all applicable features and clearances of the appliances and systems, including: size and type of apparatus; construction of flue, stack or chimney; stack connections; type of fuel; method of operation; and the method of compliance with all regulations for the class and type of equipment installed.

2803.3 Details: An application for permit shall be accompanied by construction documents complying with the provisions of the mechanical code listed in Chapter 35 before a permit shall be issued for the mechanical equipment or system. The construction documents shall be drawn to a scale of not less than ½ inch to the foot (1:100), and shall show the location and arrangement of all equipment and distribution elements including safeties and pressure-controlling devices.

SECTION 2804.0 FEES

2804.1 General: A permit to begin work for new construction or *alteration* shall not be issued until the prescribed application and permit fees have been paid, nor shall an amendment to a permit necessitating an additional fee because of the additional work involved be issued until the additional fee has been paid.

SECTION 2805.0 EQUIPMENT PLATFORMS

2805.1 General: Equipment platforms in compliance with this section shall not be considered as a portion of the floor below. Such platforms shall not contribute to the building area as regulated by Section 503.0. Such platforms shall not contribute to the number of stories as regulated by Section 503.3. The area of such platforms shall not be included in determining the fire area. Such platforms shall not be a part of any mezzanine. Such platforms shall not serve as a means of egress for any mezzanine.

2805.2 Equipment platforms: In buildings of Use Group F, meeting the requirements of Section 507.0 for unlimited area, and special industrial occupancies as defined in Section 202.0, equipment platforms shall be permitted in accordance with Section 2805.2.1 through 2805.2.5.

2805.2.1 Construction: Equipment platforms shall be constructed of noncombustible construction.

2805.2.2 Area limitation: The aggregate area of such platform or platforms within a room shall not exceed two-thirds of the area of the room in which they are located. Where an equipment platform is located in the same room as a mezzanine, the combined aggregate area of the equipment platforms and mezzanines shall not exceed two-thirds of the room in which they occur.

2805.2.3 Fire suppression: Each equipment platform shall be fully protected by an automatic fire suppression system, installed in accordance with Sections 906.0 and 906.2.1. The area immediately beneath each such equipment platform shall also be fully protected by additional heads installed under the platform.

2805.2.4 Access: Walkways, stairs, and ladders providing access to equipment platforms shall not serve as a means of egress from any occupied space. Walkways, stairs, alternating tread stairs, ladders with cages and ship ladders providing acces to an equipment platform shall be provided in accordance with Section 1027.1.1.

2805.2.5 Guards: Equipment platforms open to the room in which they occur shall have guards along the open sides of the platform in accordance with Section 1021.0.

SECTION 2806.0 INSPECTIONS AND TESTS

2806.1 Inspection: All mechanical equipment and systems requiring a permit shall be inspected in accordance with the me-



Portland ME 04101-2325

Guy T. Labrecque - Architect

Phone:

207,774,4441

Fax:

207.774.4016

E-mail: GLabrecque@CWSarch.com

August 20, 2002

Mike Nugent City of Portland Building Inspections 389 Congress Street Portland, Maine 04101

RE: Bottle Conveyor Bridge & Facility - H.P. Hood Inc.

Dear Mr. Nugent,

The following letter is in response to several questions you've raised regarding the above referenced project. Please incorporate this letter into the current documentation.

Item No. 1: At your suggestion, I have further reviewed the need for two separate exits from the main Bottle Room. I have reviewed BOCA Section 1006, and have concluded that the single accessible exit currently described within the documentation, should satisfy the needs of this space. Being an F-1 space without a sprinkler system, the Length of Travel shall be less than 200 feet. By actually measuring the path an individual must traverse within the space at the worse case, we are slightly less than 60 feet. After evaluating BOCA Section 1008-1010, I have also concluded that we meet the requirements of a Building with one exit. The computed occupant load based upon floor area is 28 (actual will be between 4-8). Per table 1010.3 for F use, we find ourselves below the 30 occupants and 75' travel distance threshold.

As also mentioned, we intend to tie the rapid roll-up door to the fire alarm system as an additional precaution. Once this door is open, occupants would have access to a second exit just beyond this door.

Item No. 2: As discussed on the phone the actual clear head room heights are 7'-1 1/2" at the catwalk within the Bottle Room and out to the new stair in the back of the building, and 6'-8" within the bridge structure itself.

Item No. 3: The Statement of Special Inspections will be forwarded to your office under a separate correspondence directly from Becker Structural Engineers.

Feel free to give me a call with any further questions or concerns. Thank you very much for your input and suggestion throughout this process. This project is a little out of the ordinary and I certainly appreciated you help and efforts.

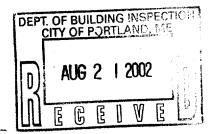
Sincerely, yours,

Guy P. Labrecque, Jr.

Architect

CBL: 066 A010

Park Cive





Becker Structural Engineers, Inc.

STATEMENT OF SPECIAL INSPECTIONS

PROJECT:	HP Hood Bott	le Conveyor	Bridge & Facility
LOCATION:	349 Park Ave,	Portland, M	aine 04102
PERMIT APPLICANT:	Centerline Con	nstruction	
APPLICANT'S ADDRESS:	P O BOX 1264,	Portland, MI	E 04104
STRUCTURAL ENGINEER	OF RECORD:	Becker Str	uctural Engineers, Inc.
ARCHITECT OF RECORD:		CWS Arch	itects
This Statement of Special Ins National Building Code. It is name of the Special Inspector these inspections.	spections is submit icludes a listing of r, and the names o	ted in accord f special insp f other agenc	lance with Section 1705.0 of the 1999 BOCA ections applicable to this project as well as thies intended to be retained for conducting
Design Professional of Recor	nall be brought to to to d. Interim reports	the attention shall be sub	sted herein, and shall furnish inspection ofessional of Record. All discrepancies shall correction. If the discrepancies are not of the Code Official and the Registered mitted to the Code Official and to the nore frequent submissions are requested by
Job site safety is solely the re not to include the Contractor's	sponsibility of the sequipment and n	Contractor. nethods used	Materials and activities to be inspected are to erect or install the materials listed.
Prepared By: Paul B. Becker, P.E. NAME SIGNATURE	E/Zc/o2 DATE		PAUL B. BECKER 6554 CENSE ONAL ENGINEER
Applicant's Authorization SIGNATURE 365 Paul Qu Obb A OID Remin # 070	9/21/02 DATE	DEPT. OF BU	Preparer's P.E. Seal Sunding Code Official: DATE DATE 1 2002

Becker Structural Engineers, Inc.

LIST OF AGENTS

PROJECT: HP Hood Bottle Conveyor Bridge & Facility

STRUCTURAL ENGINEER OF RECORD:

Becker Structural Engineers, Inc.

Firm

19 Commercial Street, Portland, ME 04101

Address

ARCHITECT OF RECORD:

CWS Architects

Firm

434 Cumberland Ave, Portland, ME 04102

Address

Following is the List of Agents selected for performance of Special Inspections for this project:

•		Name	Firm	Abbreviation
1.	Special Inspector	Paul B. Becker, P.E.	Becker Structural Engineers, Inc	BSE
2.	Special Inspector	Dan S. Burne, E.I.	Becker Structural Engineers, Inc	BSE
3.	Testing Laboratory	Roger Domingo	S.W. Cole, Inc.	SWC
4.	Geotechnical Engineer	Paul F. Kohler, P.E.	S.W. Cole, Inc.	SWC

Becker Structural Engineers, Inc. FINAL REPORT OF SPECIAL INSPECTIONS PROJECT: HP Hood Bottle Conveyor Bridge & Facility LOCATION: 349 Park Ave., Portland, ME 04104 PERMIT APPLICANT: Centerline Construction PO Box 1264, Portland, ME 04104 APPLICANT'S ADDRESS: STRUCTURAL ENGINEER OF RECORD: Paul B. Becker, P.E. Becker Structural Engineers, Inc. Firm Name ARCHITECT OF RECORD: Guy Labrecque, A.I.A. **CWS** Architects Firm Centerline Construction Richard Miller GENERAL CONTRACTOR: To the best of my information, knowledge, and belief, the Special Inspections required for this project, and described in the Statement of Special Inspections submitted for the project, have been completed. The following discrepancies that were outstanding since the last interim report, No.___dated _____, have been corrected: (Use additional sheets, if necessary) Interim reports submitted to this final report and numbered____to ____, form a basis for, and are to be considered an integral part of this final report. Submitted By: SPECIAL INSPECTOR Paul B. Becker, P.E. **NAME** SIGNATURE DATE

Special Inspector's P.E. Seal

Summary of Services (Exhibit A)

OJECT: Bottle Conveyor Brid	ge & F	acility, HP Hood Inc., Portland, M	<u>E. </u>	APPI ICAR	LE TO THIS PROJECT		Page	1 of 7
MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All,Sample, Other, None)	COMMENTS	AGENT	DATE	RE
05.2 Inspection of Fabricators	1.00				A TOP TO SERVICE) insigh		3 - 10 ja
		Fabrication Procedures	Υ	As Required by following sections	See Wood, Steel	BSE		
		Procedure Implementation	Υ	As Required by following sections	& concrete Sections	BSE		
						_		ļ
						+		₩
								├
	}				1			
	l					1		
	1					1	1	<u> </u>

-		Facility, HP Hood Inc., Portland, ME	Т		Page 2 of 7			
MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All,Sample, Other, None)	E TO THIS PROJECT COMMENTS	AGENT	DATE	RE
1705.3 STEEL CONSTRUCTION	2.00		_	(anjeanspie, Ganer, items)	- COMMENTO	AGENT	DATE	KE
Steel Fabrication		In-plant review					16 M	
		Part A - Fabrication procedures/QA						
		1. AISC Category 1	Υ	Provide AISC Certification		BSE	STEERS !	
		2. AWS Quality Assurance	Y	Provide Welder Certification		BSE		├
		Part B - Procedures implementation					6.34.6	33000
	L. I	Review conformance to Part A						
		Review material certificates	1371				HATAK	
		1. Bolts, Nuts, Washers	Υ	Sample	AISC ASD A3.4	BSE	. 4057	* W.
	l í	2. Structural Steel	Y	Sample	AISC A6 or A568	BSE		
		3. Weld Filler Material	Ϋ́	Sample	AISC ASD A3.6	BSE		
		Review connections			AND ASD AS.	IDSE		Pusaki
		1. Shop Bolted	N					Sada.
		2. Shop Welded	İΥ	ALL @ CONVEYOR BRIDGE	IN CHOR OVICUAL)	0.40		-
		3. Connection Design Calcs	N	ALL & CONVETON BRIDGE	IN SHOP (VISUAL)	SWC		<u> </u>
	ľ	Shop Welder Certs	TY	ALL	Design By BSE			<u> </u>
		Review welding of seismic-resisting	+	ALL	AWO D4 4	BSE	-	<u> </u>
		system in Cat. "C" buildings	ΙΥ	ALL @ CONVEYOR BRIDGE FRAME	AWS D1.1	امسا		
Steel Erection		Review materials certs of compliance		TALE & CONVEYOR BRIDGE FRAME	SECTION 6	SWC	See Janear	50. Xe5
	ı	Bolts, Nuts, Washers	Y	ALL				
	- 1	Structural Steel	l'	ALL		BSE		
	ŀ	Weld Filler Material	Y	ALL	<u> </u>	BSE		
		Review primary steel connections	1			BSE		oficial Control
i	ľ	Moment connections	V	ALL	AU TRACONIO	1 200 Kg		
	ľ	Shear connections	╫	ALL.	ULTRASONIC	swc		
	ŀ	Field Bolted	V	ALL		-		
	ŀ	2. Field Welded	Y	ALL		SWC		
İ	$\neg +$	Bracing connections	Talk Medi	ALL		SWC	t edinot.	- 1
ľ		Review welded Cat. "C" seismic con-		The Fig. 12 No. 2 And The Estate State Sta	To a State of the State of Sta			
		nections	V	A				
ŀ		Review welded column splices		ALL ALL		swc		
ľ		Review base metal testing for "t" > 1 1/2"	Y	ALL		swc		
 		Review secondary steel connections	_	ALL		swc		
	ľ	Girts	N Y	All				
	F	2. Lintels		ALL		BSE		
l	 		N	A11		+		,
.	 .	3. Steel Deck		ALL		BSE		
ŀ		intels/Relieving Angles	N					
-	_	Review installation of shear studs Review Details/Steel Frame	N Y	Sample				

PROJECT:Bottle Conveyor Bridg	ge & F	SCHEDULE acility, HP Hood Inc., Portland, ME.	E OF SPECIAL INSPECTION SERVICES Page 3 of 7 APPLICABLE TO THIS PROJECT								
MATERIAL/ACTIVITY			2491			T		1			
1705.3 STEEL CONSTRUCTION	1TEM 2.00	I	Y/N	EXTENT (All,Sample, Other, None)	COMMENTS	AGENT	DATE	REV.			
(Continued)	2.00										
Steel Joist & Joist Girder		In-plant review									
		Part A - Fabrication procedures	Υ	SUBMIT SJI CERTIFICATION OF PLANT		BSE					
		Part B - Procedures implementation									
		Review conformance to Part A	N								
		Review material certificates of									
		compliance									
		1. Structural Steel	N								
		2. Weld Material	N								
		Review connections	N								
		Review welder certification	N								
Steel Joist/Joist Girder Erection		Review joist bearing connections	Υ	ALL		BSE					
		Review joist bearing length	Υ	ALL		BSE					
		Review joist bridging	Υ	ALL		BSE					
Steel Roof Deck		Review Gage Thicknesses	Υ	ALL		BSE					
		Review Welding	Υ	ALL	74.	swc					
			İ								
								i			
			1								

Special Inspector_

Date_

DDO IECT: Bottle Comunicat B	English -		SPEC	IAL INSPECTION SERVICES		_	_			
PROJECT: Bottle Conveyor & I	racility,	ry, or nood inc., rordand, ME.		Page 4 of 7 APPLICABLE TO THIS PROJECT						
MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All,Sample, Other, None)	COMMENTS	AGENT	DATE	REV.		
1705.4 CONCRETE CONSTR.	3.00									
Concrete Materials		Review materials (ACI Chapter 3)								
		1. Cement	Υ	ALL	ASTM C150	BSE				
		2. Normal WT aggregates	Υ	ALL	ASTM C33	BSE				
		3. Air Entraining admix	Υ	ALL	ASTM C260	BSE				
	1	4. Normal range water reducing admix	Υ	ALL	ASTM C494	BSE				
	1 .	5. Hi-Range water reducing admix	Υ	ALL	ASTM C494	BSE		j		
		6. Accel Admix	Υ	ALL	ASTM C494 Type A	BSE				
		7. Moisture Barrier	Υ	ALL	8 mil	BSE				
		8. Curing Products	Υ	ALL		BSE				
	i I	9. Preformed expansion Joint	Υ	ALL		BSE				
		Review mix design	Υ	ALL	ACI Chapter 4	BSE				
		Review reinforcing certification & weld-								
		ability if required	Υ	ALL	Certificate Only	BSE				
Placing Reinforcement		Review condition & placement of rein-	1							
		forcing and prestressing steel	Υ	Sample	ACI 318 7.4-7.7	BSE				
		Review welding of reinforcing in Cat "C"								
	1	seismic-resisting systems	N	Not Applicable						
		Review Embedded items, bolts, plates, etc.	Y	Sample		BSE		-		
Formwork	1									
Formwork	1	Review form removal & reshoring	N	Contractor Means & Methods	ACI 318.6.2		1			
Concrete Operations		Field Sampling & Testing of Concrete	Υ	Every 50 yards or each separate placem	ent Sample Air, Temp, Slu	mp ASTM	C172, C2	:31		
		Review concrete strength tests	Υ		ACI 318 5.6	BSE	T			
		Review mix proportions and technique	Υ		ACI 318 5.2, 5.3, 5.4, & 5.8	swc				
		Review concrete placement	Y		ACI 318 5.9 & 5.10	swç				
		Review curing technique & temperature	Υ		ACI 318 5.11, 5.12, & 5.13	swc	T 1			
Prestressing Operations		Review application of prestressing force	N	Not applicable						
		Review grouting of bonded prestressing		Not applicable						
		tendons in Cat.Cseismic-resisting systems	N							
Precast Manufacturing	7	In-plant review	Ì							
	1 1	Part A - Fabrication procedures	N							
		Part B - Procedures implementation	N							
		Review conformance to Part A	N							
Erection of Precast Concrete		Review erection of precast units	N			1				
		Review key reinforcement	N			1 1				
	-	Review key grouting	N							
		Review concrete topping	N		1					
	-	Review connections	N							

		Facility, HP Hood Inc., Portland, ME.		APPLICAB	LE TO THIS PROJECT		Page 5	01 7
MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All,Sample, Other, None)	COMMENTS	AGENT	DATE	RE
1705.5 MASONRY CONSTR	4.00					 		-
Materials		Review materials certification	0.7					
		Masonry units	N		7 West 20/2007 - 1990 - 30 Per Blood Stocker - 30 1/2 - 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30 Tubar 25 m
		Reinforcing steel	N					
		Review grout materials & mix design	N					
		Review mortar materials & mix design	N					
	İ	Review strength determination						
		Unit strength method	N		(A) (7) (1) (2) (4) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		1.21.258927-01-7-2	
	1	Review unit strengths & grout,	N					
		mortar mixes	N		***			
		Prism strength method		SCRETCHE LATER LATER				
		Review pre-construction test results	N		A SECTION OF THE PROPERTY OF T			
		Field tests during construction	N					
		Grout testing				2 1 1 W 1 1 P	81.035	
		Determine compressive strength	N	See Associate				
		Mortar testing					2 8 8 Cari	YE.
	1 1	Field test compressive strength	1					
		ASTM C780 (Req'd only if property	1					
		reqs of ASTM C270 are used)	N					
		Review mortar mix proportions & mixing	N		ACI 530.1;2.3.2.5			
eneral Masonry Work		Review general installation of mortar	Υ	Sample	ACI 530.1;4.2.2	BSE		
		Review general installation of mortar			ACI 530.1;2.3.3.3,4.3.3			
		grout, masonry units.	Υ	Sample		BSE		
	1 1	Review installation of horiz., vert., & joint			ACI 530, CH. 8			
	1 1	reinforcing (incl. Location, sizes, splices,			·			
		& positioning devices)	Υ	Sample		BSE		
		Review hot/cold weather procedures	Υ	Sample	ACI 530; 1;2.3.2.2,2.3.2.3			
		Review installation of anchorage devices	Υ	Sample		BSE		
		Review installation of lintels	Υ	Sample		BSE		-
		Review welding of reinf., grouting,						
		consolidation and reconsolidation for					l	
		seismic Cat. "C" buildings	N			ļ		
	1 1							

		Facility, HP Hood Inc., Portland, ME.		APPLICABLE TO THIS PROJECT						
MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All,Sample, Other, None)	COMMENTS	AGENT	DATE	REV.		
705.7 PREPARED FILL	6.00							· · · · · · · · · · · · · · · · · · ·		
Site Preparation		Review site preparation prior to prepared								
		fill placement.	Υ		Building only	swc				
Ouring Fill Placement	İ	Review compliance to soils report				swc				
		Material	Υ	Sample	Building only	swc				
		Lift thickness	Υ	Sample	Building only	swc				
valuation of in-Place Density		Review in-place dry density for compli-								
		ance with soils report	Υ	Sample	Building only	swc				
			ĺ							
	İ .									
						İ				

20-Aug-02

		Facility, HP Hood Inc., Portland ME.		APPLICABLE	TO THIS PROJECT		газ	ge 7 of
MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All,Sample, Other, None)	COMMENTS	AGENT	DATE	REV
705.12 SPECIAL CASES	8.00							-
rireproofing		Fireproofing	N			+		
		Review Product Data Sheets	N					
	Į	Review In-Place Density	N					\vdash
		Review In-Place Thickness	N			† · · · · · · · · ·		\vdash
		Review In-Place Bond	N					
		Review scope of installation for	N			+		
		conformance with design documents	N			 		
					*	+		_
						N		
				5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			100	
								-
						+		├──
			 			 		
			+ +			+ +		<u> </u>
			1.23				The state of	
				*				
			_		· · · · · · · · · · · · · · · · · · ·	+		
				The strip of the s				12.0
			+-+			+		
			+					
	1 1		+					
			+ +					
	+ +							
	 		-					
	 					<u> </u>		
	+ -		+			<u> </u>		
	1 1						l	
			1 1				[
	1 1						l	
				į				
				İ]		

F PORTLAND, MAINE

ity Clerk

in: Marge Schmuckal, Zoning Administrator

ate: June 5, 2002

RE: Action taken by the Zoning Board of Appeals on May 2, 2002.

The meeting came to order at 7:05

Roll Call as follows:

Members Present: Elizabeth Bordowitz, Julie Brady, Joseph Lewis and Catherine Decker

Members Absent: Nan Sawyer

APPEAL AGENDA

The Board of Appeals will hold a public hearing on Thursday, May 2, 2002 at 7:00 p.m. on the second floor in Room 209 at the Portland City Hall 389 Congress Street, Portland, Maine to hear the following appeals:

- 1. Unfinished Business: There was no unfinished business
- 2. Other Business: Election of Secretary, Catherine Decker was nominated and elected 4-0 as Secretary.

3. New Business:

A. Practical Difficulty Variance Appeal

PROP, purchaser of 56 Wilson Street (formerly know as O'Brion Street), Tax Map #003, Block #N Lot #009 in the R-6 Zone is requesting a Practical Difficulty Variance Appeal from section 14-139(a)1 (dimensional requirements) of the Portland Zoning Ordinance. The minimum lot size in the R-6 Zone is 4.500 s.f. This lot (which has been found not to be a lot of record) is 4,415 s.f. This would be for the purpose of building a duplex. John Geary, Esq. will be representing the applicant. Due to a mailing error it will be held over until the meeting of May 16, 2002.

B. Practical Difficulty Variance Appeal

H.P. Hood, Inc. lessee of 365 Park Avenue, Tax Map #066, Block A, Lot #010 in the I-M Zone is requesting a Practical Difficulty Variance Appeal from section 14-250 (d) (dimensional requirements, side yards) and 14-439 (setback reductions in the industrial zones) of the Portland Zoning Ordinance. This would be for the purpose of erecting a 12-foot diameter tank, a new loading dock and a 200 s.f. addition. Chris Vaniotis, Esq. will be representing the applicant. The Board voted 4-0 to grant the Practical Difficulty Appeal with the reduction of the side setback from the required 25' to 18' in accordance with plans submitted with the application.

4. Adjournment: The meeting adjourned at 8:00 p.m.

Enclosure:

Agenda of May 2, 2002 Copy of Board's Decisions 1 standard size tapes

CC:

Joseph Gray, City Manager
Mark Adelson, Housing & Community Services
Alex Jaegerman, Planning Department
Lee Urban, Planning & Development Director

CITY OF PORTLAND, MAINE ZONING BOARD OF APPEALS

Elizabeth Bordowitz, Chair Julie Brady, Secretary Nan Sawyer Joe Lewis Catherine Decker

June 5, 2002

Bernstein, Shur, Sawyer & Nelson 100 Middle Street Portland, Maine 04104

RE:

365 Park Avenue

CBL:

066-A-010

ZONE:

I-M Zone

Dear Mr. Vaniotis;

As you know, at its May 2, 2002 meeting, the Board of Appeals voted 4-0 to grant your Practical Difficulty Appeal.

Enclosed you will find a copy of the Boards decision.

Sincerely,

Marge Schmuckal

Zoning Administrator

H.P. HOOD Inc.

BOTTLE CONVEYOR BRIDGE & FACILITY

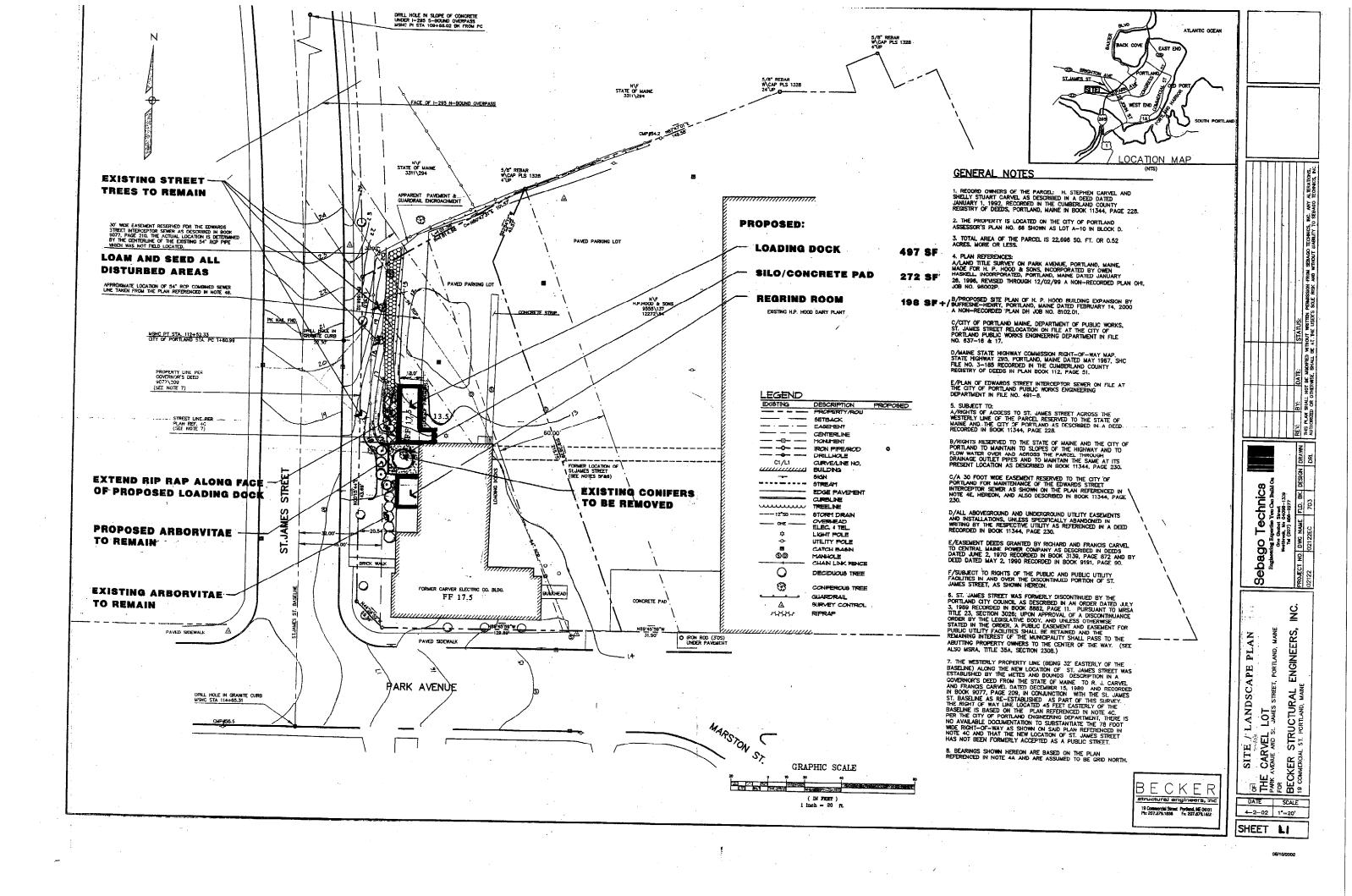
349 PARK AVENUE • PORTLAND, MAINE

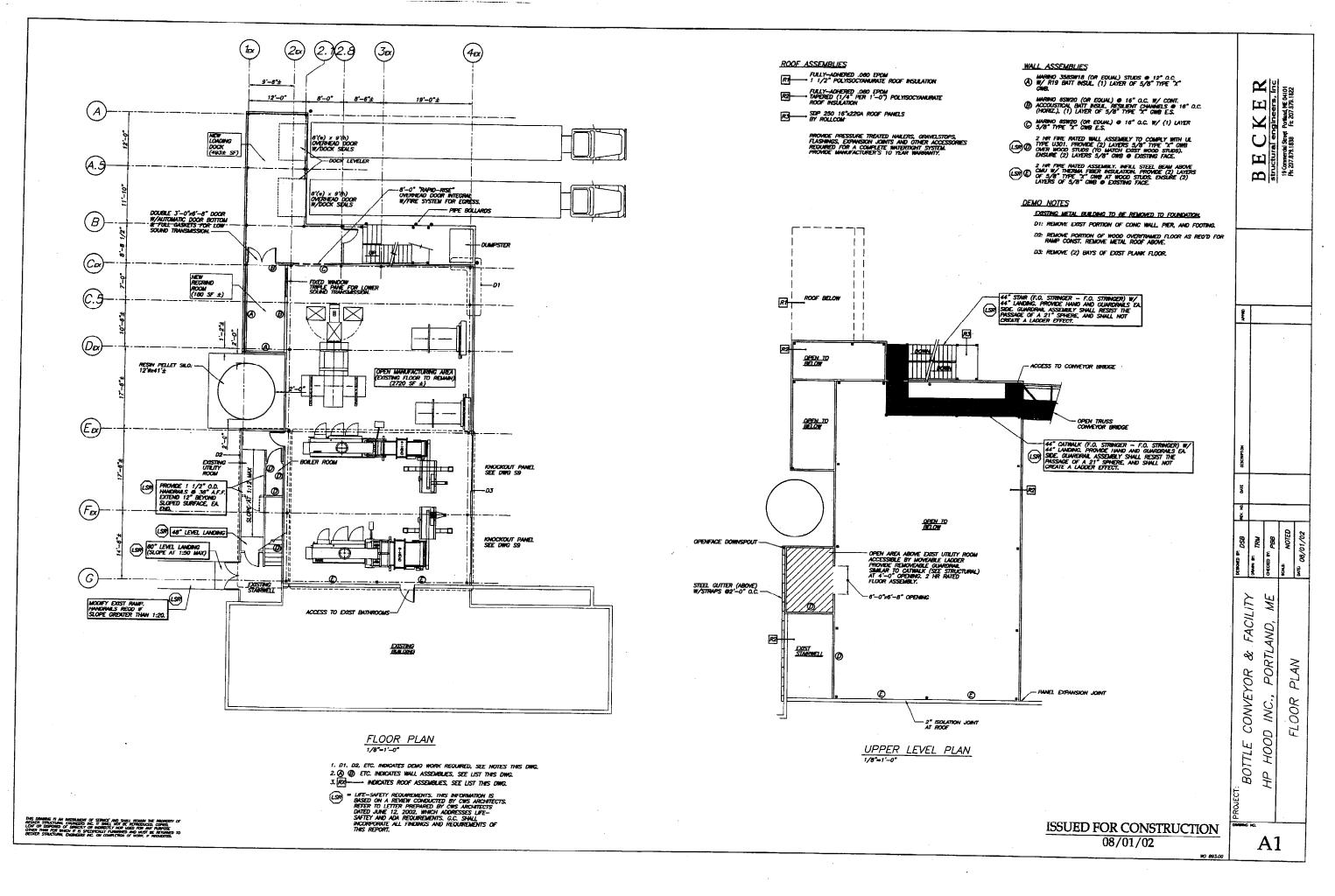


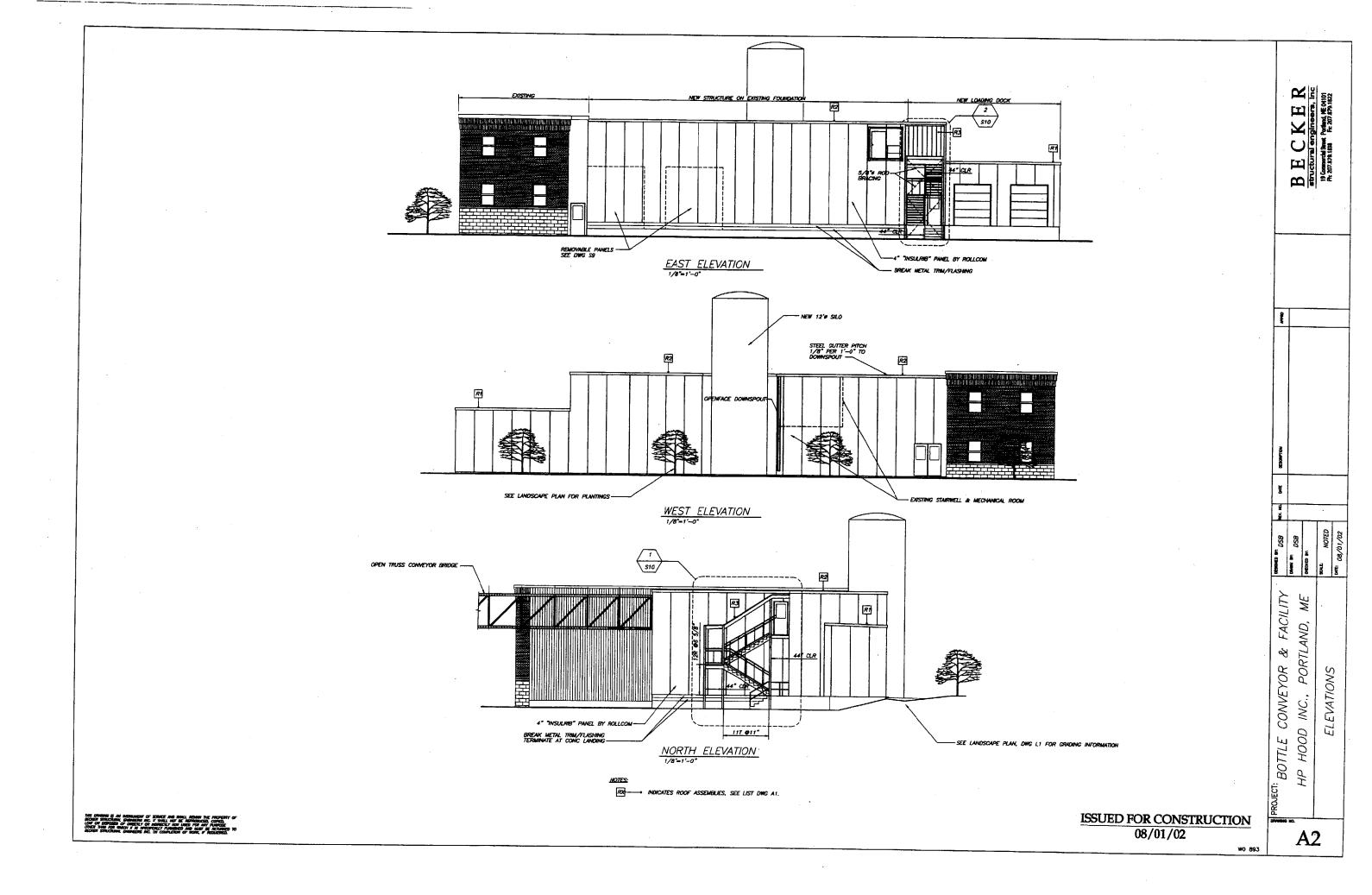
BECKER
structural engineers, inc

19 Commercial Street Portland, NE 04101
Pt: 2017.879.1838. Fe 2017.879.1872









GENERAL MONTH I. ALL IMBONRY CONSTRUCTION SHALL CONFORM TO ACT 530.1—LATEST EDITOR 2. ALL CONCRETE MISSIONEY LINES SHALL HE ASSUL CON GRACE IN, TYPE I STAND ROOM BLOCKS INCLUDING STRETCHERS AND COMMER BLOCKS, MINIMAN PRISE STRENGTH OF BLOCK SHALL HE F'M = 1500 PM NI 20 DATS. I. MONTHAN SHIELL CONFORM TO ASTAL SPECIFICATION (2270, THPE M OR S **田**鳥藍 3. CONCRETE SHILL BE COMPROLLED CONCRETE, PROPORTIONED, MICED, AND
PLACED IN THE PRESENCE OF A REPORTSTRUMEN OF AN ASSOCIATED WATER APPER PROJECTION WITH THE PROPERTY FOR U. THE MEMBER AND STREET FOR THE PROPERTY STREET STREET, APPENDING AND STREET FOR THE PROPERTY STREET STREET, APPENDING AND STREET STREET, APPENDING AND STREET . FRED CONNECTIONS SHALL BE BOUTD USING 3/4"— DIMETER ASSE ASSESS HAD STRUMEN BOUTZ (LIALD) DICEPT WINDS SUF CHICAL CONNECTIONS AND REGISTRES AND HATER BY ASSES (SC) ON THE DEMONSE PROCESS AND (SC) CONNECTIONS AT ALL MEMORY CONNECTIONS, BRACIED PRIMETS, RELEVING ANGLES AND AS ORNELINES HOUSE. CONCRETE ME COMMA POSTRESS MAD POLICIONEM WALLS AND PILE CAPIC A STRUMENT JUST PS GOS GAS E. MORRESTO JA'' C. MJC RATE CLOS MAY D. DIFFERED ART TR MAY, ST. MM 9. FELD PENETRODOUS THROUGH BLOCK WILLS SHALL HOT BE MADE THROUGH BOND BENKE, LIMPELS OR GROUNED CELLS. MANUE PRIZING IL BIOLOGIO, ALL MELONG SHALL CONFORM TO AME DT. 1— JUEST EDMON, ELECTRIZIES SHALL ME CONFORM TO AME AS, I ETDOT SERVES MITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGIO). MIN COMPACTED STRUCTURAL FILL STATE CONTROL OF THE PARTY OF T 四續 TYP SLAB DETAIL @ DOOR A. SECTIONE AND DETAILS SHOWN ON ANY STRUCKHARL DRAWINGS SHALL ME COMMISSION TIPPON, FOR SEALAR CONDITIONS AS DETERMINED BY THE METAL FLOOR AND ROOF DEDY SWALL SE AS RECASSED ON THE DRIVENSE BY ACCOUNTMENT OF THE DRIVENSE BY ACCOUNTMENT OF THE DRIVEN WHILL FOR FLOOR AND THE FLOOR AND THE FLOOR AND THE FLOOR AND THE FLOOR AND THE FLOOR AND THE FLOOR AND THE FLOOR AND THE FLOOR AND THE FLOOR AND THE FLOOR DEDY SWALL SET GALLENGED BY ACCORDANCE THIN ASTAL AGES GOD, METAL ROOF DECK SWALL SET PROMISED. TYP SLAB DETAIL **교** 🖁 🚎 . THE HETHL ROOF AND FLOOR DEEK SHALL BE FORMED OF STEEL SHEETS CONFORMING TO ASTAY STRADARD AND I. 2. METAL ROOF DECK SHALL BE 1-1/2" DEEP, 22 GAGE, PARKED TYPE B METAL DECK WITH THE POLLOWING MINISTER PROPERTIES PER ROOF: 7. FISTEN METAL FLOOR DECK TO DICH BEM AND ANCIAND THE PERMETER OF THE BELLING WITH SAF INNEXTER PLODEL WELDE AT 12" O.C. FISTEN FROM DOOF DOOR WITH (4) — 3.4" DIMETER PLODEL WELDE TO SOUTH PRIMING MEMBER PER 350 MICH DEC WORL PROMEE (3) \$10 TRUS SCHOOL SHELLING FOR DICH SHAN LIKE. DISCONTINUOUS BARS 9 3/4" | 5" | A. STREAM SOOD PS GOS DATS

8. ACCREMIE: 1/4"
C. W/C RISK: 0.46 MIX
D. DISHMED AR: 65 MIX, 45 MIY
E. SLIBER 4" MIX -FILL OPING W/CONG 1/2 ---CONC DAM A. ADD AR DIMMING ADMITTING AT IMMUNICIPARY'S PRESCRIBED PAIR TO RESULT IN CONCRETE AT POINT OF PLACEMENT HORSE THE ABOVE NOTES AR CONTROLS. A. ALL STEEL, SHALL BE FRENCHED MO SHEPPED AS PRIMED & PHIMED STEEL.
ALL STEEL SHALL BE HOMITED WITH DE FRONCHICHTE SHIC MCH, MUST
MINISTRE MORRE, TREBET 50-87, OR EDUM, (23-53 ML), 109 COST ALL STEEL
WITH TREBET STREET ST ENGINE-SHELD, OR EDUM, (2-6 ML), FRED TOUCH-UP
COOK, COMPRINENC COLOR WITH OMBER. - ALTERNATE BARS CONT · . . / I ANY CONNECTS.

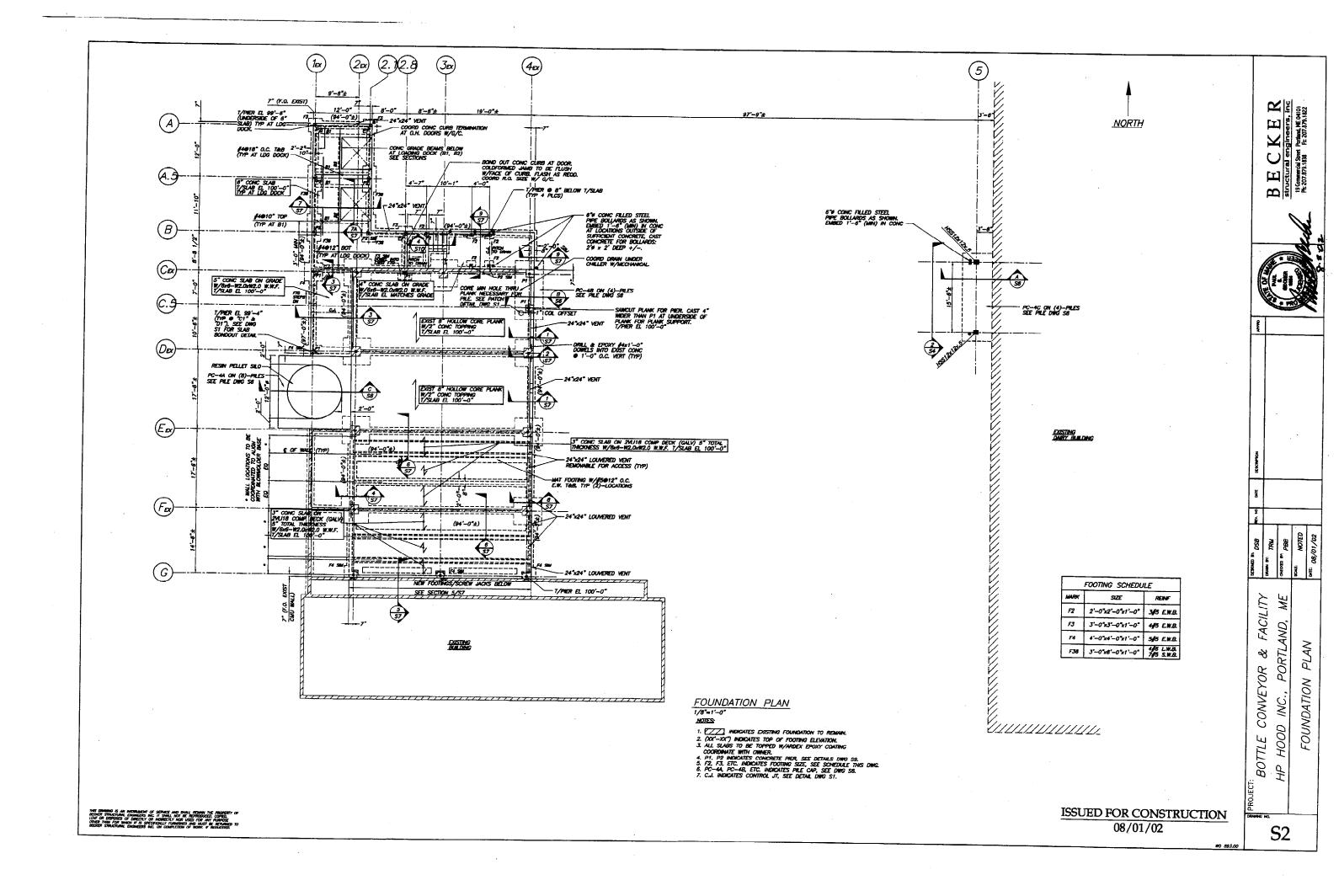
ANY CONNECTS SUMP MAY BE ACCEPTED BY THE ADDITION OF A MICHAELE OR MAIN MAKE WITH RESIDENCE ADMITTINE, MANAGES SUMP AFTER ADDITION OF ADMITTINE SHALL BE BE PAYED. OF AMERICAE SHALL BE 8 HOURS.

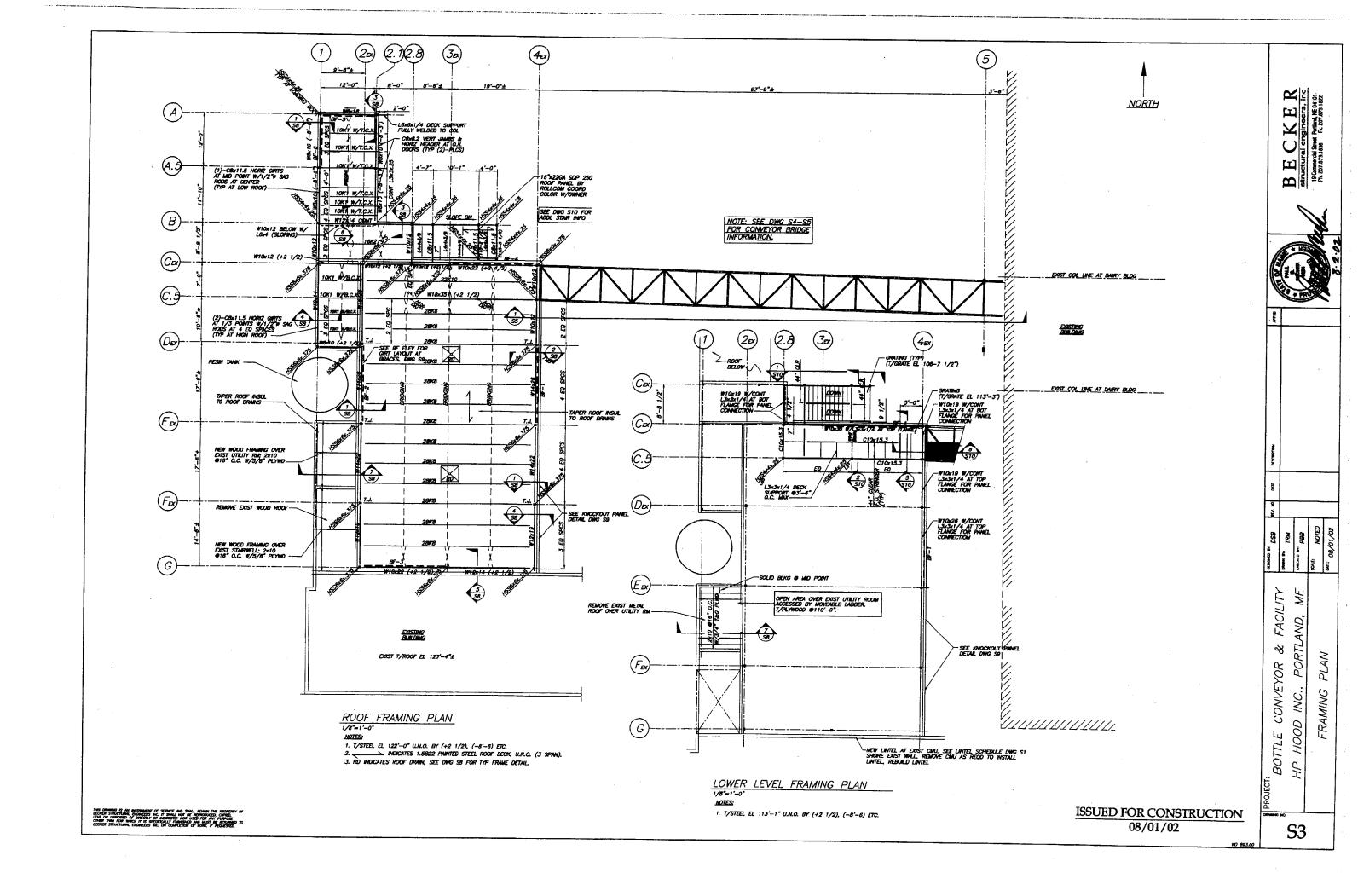
A ADAPTMENT TO CONCRETE HERES HAT CHINEVE CONSTRUCTS OF METERALS, JOB AMERICAN TO CONCRETE HERES OF AMERICANS OF METERALS, JOB AMERICAN OF AMERICAN CONTROL HERES OF AMERICAN CONTROL HERES OF THE AMERICAN LANGUAGE THE DAY AND AMERICAN THE AMERICAN THE DAY AMERICAN THE AMERICAN THE AMERICAN CONTROL HERES HERES AND AMERICAN OF AMERICAN CONTROL HERES HERE TO AMERICAN CONTROL HERES HAVE AMERICAN TO AMERICAN CONTROL HERES AMERICAN CONTROL HERES AMERICAN CONTROL HERES AMERICAN CONTROL HERES AMERICAN CONTROL HERES AMERICAN CONTROL HAVE AMERICAN THE PROMETED FORM AND AMERICAN CONTROL HAVE AMERICAN THE PROMETED FOR AND AMERICAN CONTROL HERE AMERICAN CONTROL HAVE AMERICAN CONTROL HAVE AMERICAN CONTROL HAVE AMERICAN CONTROL HAVE AMERICAN CONTROL HAVE AMERICAN CONTROL HAVE AMERICAN CONTROL HERE AMERICAN CONTROL HAVE AMERICAN CONTROL HERE AMERICAN CONTROL HAVE AMERICAN CON TYP CONTROL JOINT IN WALL 4" MIN a+b=1/5 T T = WALL THICKNESS 12. PRINCE 3/8" IMMUM STIFFDIER PLATES EICH SIDE OF REIM WEB AT BEMIS PRIMBIR DIER COLUMNS AND AT BEMIS SUPPORTING CELURAS ABOVE 1. PROMOE N° THON LEVELING PLATE UNDER ALL COLLING BASE PLATES UNLESS CREATERINE HORSE, LEVELING PLATES SHALL BE SET AND GROUND PRIOR TO DESCRIBE COLLING. TYP PLANK OPENING INFILL REF . ALL TRAKER FRAMING SHALL BE IN ACCORDANCE WITH THE LATEST EURION OF THE ARC TRAKER CONSTRUCTION IMMAIN. AND THE HIPM HATCOM, DESIGN SPECIFICATION FOR THOSE CONSTRUCTION DIES. MONORUM. THESE FRANCIS MICHIGERS SHALL BE VISUALLY GRACES GRADE MOT/MOR SPRINTE-PRE-FR MEM DINED TO 1881 MANIMAN COMMENT LINESS CRITERINS REACHED ON THE COMMINES. INSIDE FACE OF 2. FOUNDATION DESIGN IS BASED ON SHILLDE SPREAD FOOTINGS BEARING ON 12" OF 3/4" COMPACTED CRUSHED STONE, OR 40 TON BENEAU PILES. 3. ALCOHOLE BENING CHACTY FOR SPREAD FOOTINGS 1,000 PSF. SEE REPOR REF RESPUTCING BANG SHALL CONFORM TO ASTA ASIS DINDE SO DEFORMED BANS AND SHALL BE DEBUGG, PRINTOSED AND PLACED IN ACCOMMINE WITH AG. SIS. LARGES PRINTOS. I. ALL PLUTODO SHALL BE ANN PERFORMANCE PARED, PROMBE 1/2" THOSE HALL SECTIONS ON 5/8" THOSE ROOF SHEETHING, PLUTODO SHALL BE NACED TO THE PROMBE AS PLUTODO SHALL BE NACED TO THE PROMBE AS PLUTODOS AND THE PROMBE AS PLUTODOS AND THE PROMBE AS PROMBE AS THE "ON EDGES AND 12" AT PROMBEDORS SUPPORTS. TYP OPENING IN WALL OR SLAB A. JUST FRANCISTOR SHALL SHOW ON SHOP DRAWINGS THE DISTANCE FROM CENTER LINE OF SUPPORT TO FREST PANEL OF JOST. 5. THE TYPICAL PILE DESIGN SHALL BE AS FOLLOWS: "MATERIAL SIZE: HPBLSH, ASTM AST2 OR AMEZ GR 50 RIGOR SHIDTHING SHALL BE 3/4" ARE RETED STURO -- FLOOR TOMBLE AND GROUPE PHINES. PLYHOOD SHALL BE GLUE/SCREED TO FLOOR FRAMING AT 8" ON COMPRE. 1. HANDLING AND EMECTION SHALL HE DONE WITH CHIE. PREMOLDED JOINT FILLER ALL PLES SHILL BE DANIEN USING CHST STEEL POINTS TO LIMIT PILE DAMAGE AND PREMENT TOP MICK OUT DURING DISHOOD. TYP SLAB ON GRADE DETAIL I. MINIMUM CONCRETE PHOTECTINE CONTINUE FOR REINFORCEMENT, UNLESS MOTED OTHERWISE, SHALL ME AS POLLOWS AT EXTERIOR COLUMN 4. PASTENING HOT SPECIFED SHALL CONFERM WITH BOOK THELE 2305. IS, HAMBERS FOR DUCTS, PIPES, UNITS, ETC., MUST BE ATTACHED TO JOSES AT S. JOST PHARENS, BEAM PHARENS, POST BASES AND ON PLACES SHALL BE AS MICHORED ON THE CHANNESS AND MANUFACTURED BY SEASON COMMUNIOR BUILL AS APPROVED BY THE SHAMEDE, REFER TO MANUFACTURERS LINEWILDE FOR PRIFER HANGLING AND INSPLACEMENT OURCLASSES. COLD-FORMED STEEL FRANCIS MOTES TEKS SCREWS @ 12" O.C. VERT EA. FLANCE DSB TRM PBB NOTED (4)-1/4"# TAPCON CONCRETE SCREWS @ CONCRETE OR (4)-P.A.F. @ STEEL OR #10x1 1/2" SCREWS @WOOD ALL EXTENSION COLD FORMED STEEL STREET AND TROOK SHALL BE IMMEMBED 100 CHECK TURNED PROJECTION CONTINUENCE TO STATE AND STREET AND S R.O. TYP CONSTRUCTION JOINT IN WALL WELDING OF REPORCEMENT IS NOT PERMITTED. 1. FOR ALL OPERAISE IN CONCRETE THILS AND SLAWS, PROVIDE SUPPLEMENT PERFORCING ANDURIO OPERAISE AS SHOWN ON THE COMMING DOCUMENTS TIPPOUL DEBUS. PROVIDE ONE ANGLE FOR EACH 4" WILL THOMESS, FOR 6" WILL THICK IT OR MILET-UP SECTION WITH PROPERTIES EQUAL TO OR GREATER THAN THE AMPLE PROPERTIES FOR A 4" WILL THEOMESS. 13. NO FILL FOR BUILDING SUPPORT SHALL BE PLACED LINTE. SUBGRACES HAVE BEEN CHROMOTO AND APPROVED BY THE GEOFECHMENT, ENGINEER. 3. PROMOE 8" OF BENING AT EACH END OF ALL LINIELS FACILITY ME 14. BOCKEL THE PAIR CAPS AND LIMITED DOOR POINTSTRON WILLS SHALL BE A
CENT COMMON TOLLOW THE B CONNECT CONTROL TOLLOW COMMON
SPECIFICATION TOLLOW THE B CONNECT COMMON PASSAGE THE B
SPECIFICATION TOLLOW THE B CONNECT COMMON PASSAGE THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B
SPECIFICATION TOLLOW THE B . AL EXTERIOR LIMETS SHALL BE HOS-AMOUND ON WHATE 4ND, TYP LIGHT GAGE JAMB A) POOTINGS AND WILLS

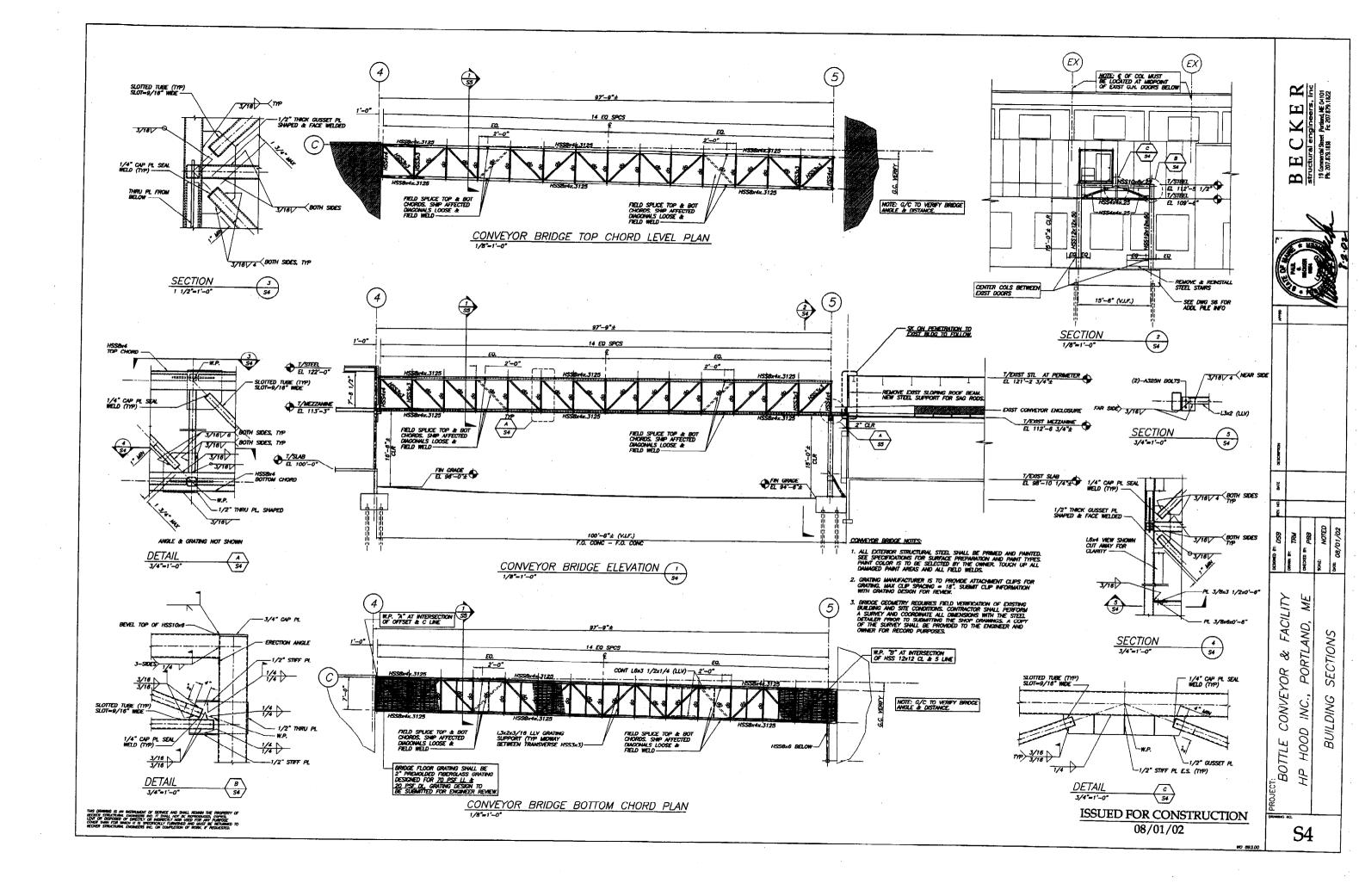
ANX LENGTH 40"-0" NOR 15"-0"
FROM ANY CORNER"

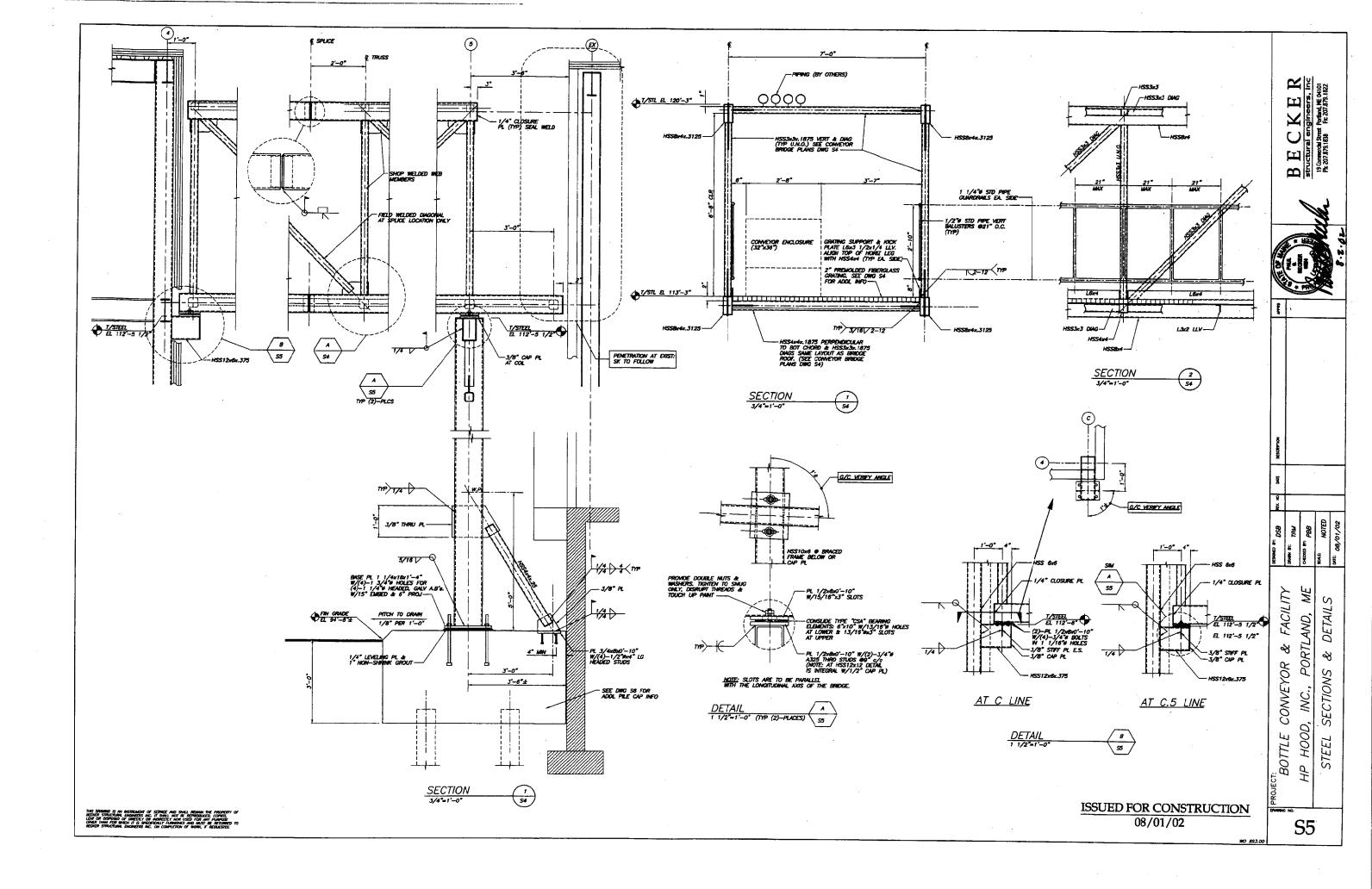
I) SLARS ON GRODE

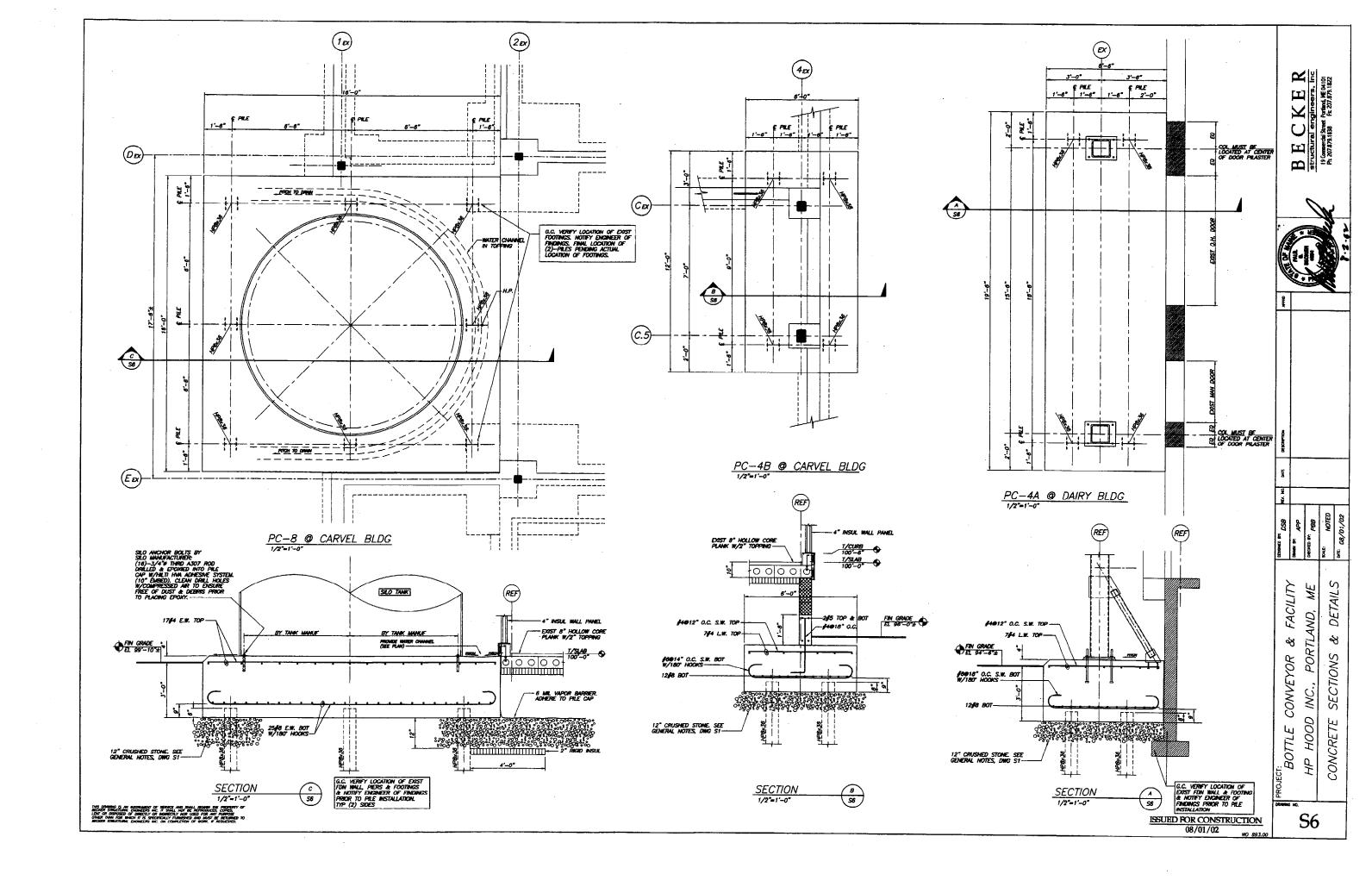
MOV ANIA 225 SF 15. PROMEE 4-INCH PIC DIMMPRE MOUND THE PERMETER OF THE STRUCTUR LOCATE AT THE MOTIFOUND THE FOLKMANDIN WILLS AND PROMOE POSITIVE MONITY FLOW TO PROMOPELY DESIGNED CHITECT. એ YOR -(2)-6T14 & (1)-6SW18 CONVE CORNER WC. 22. ALL GROUT BONGATH BINSE PLATES & BEATRING PLATES SHILL BE "T-STAN" PSF NON-SHIRIK GROUT BY U.S. GROUT CORP. TYP WALL REINF DETAILS TYP LIGHT GAGE HEADER BOTTLE REBAR LAP SPLICE TABLE t/4 MIN DEPTH PREFORMED ZIP STRIP 24. COMORETE ANCHORS SHALL BE POBERERST ADVESME ANCHORS BY POBERS/MAIL, MOR ROCHELLE, MY (\$14)—235—4300. LAP LENGTH 3,000 PS1 4,000 PS1 HP TYP SLAB ON GRADE THE DIMMINE IS AN INSTRUMENT OF SERVICE AND SHALL REMAIN THE PROPERTY OF SERVER STRUCTURE, DIMMETERS INC. IT SHALL NOT BE REPRODUCED COPPED, LEWY ON DISPOSED OF OMERCY OF REPRODUCED THE REPRODUCED COPPED, LEWY OF DISPOSED OF OMERCY OF REPRODUCED AND MISS DE REFURENCE TO RECORD THE REPRODUCED AND MISS DE REFURENCE TO RECORD THE REPORT OF REPORT OF THE REPORT OF RECORD STRUCTURE, DEFINITION OF REPORT OF THE ISSUED FOR CONSTRUCTION CONTROL JOINT DETAIL 08/01/02 S₁

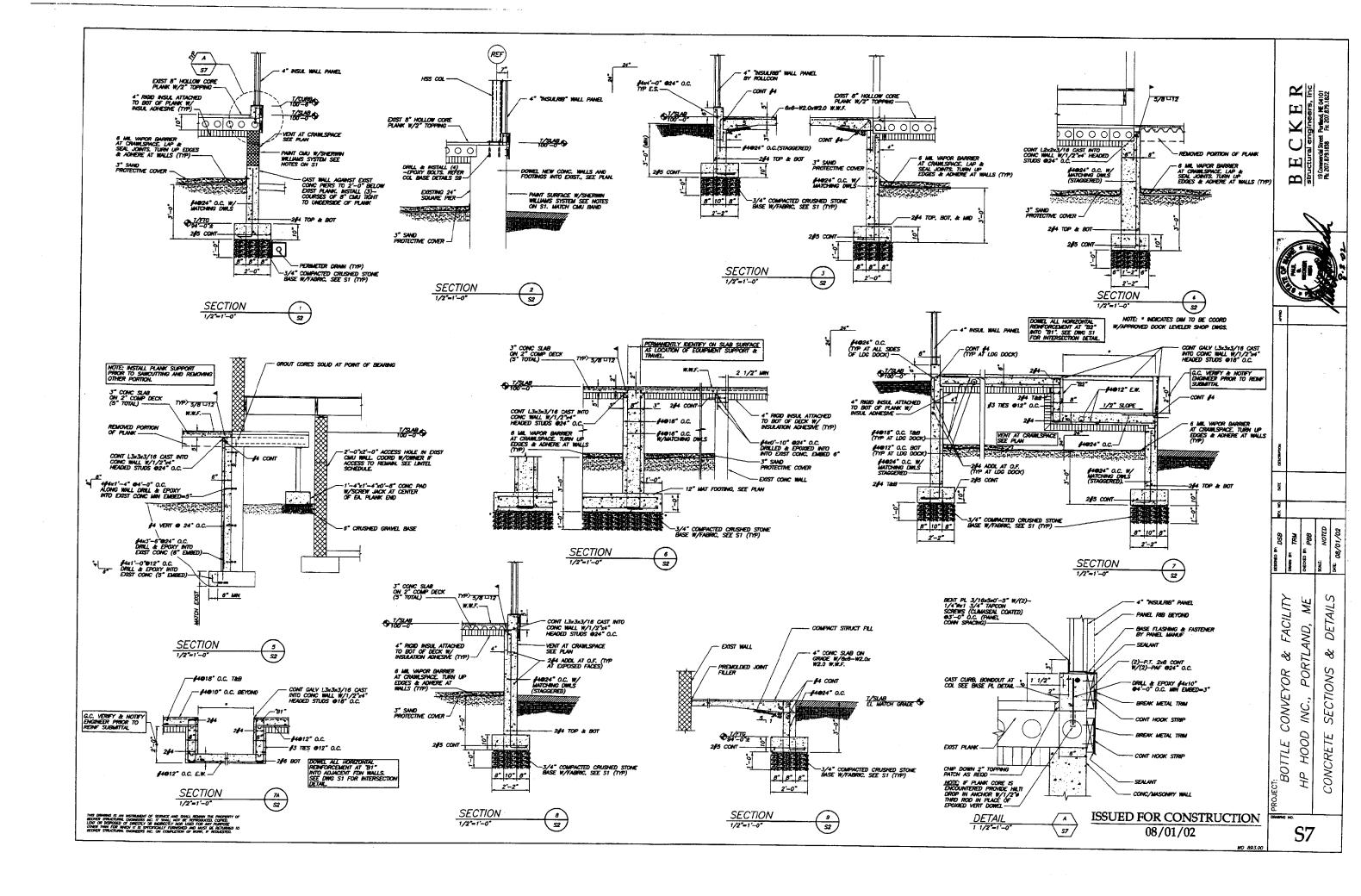


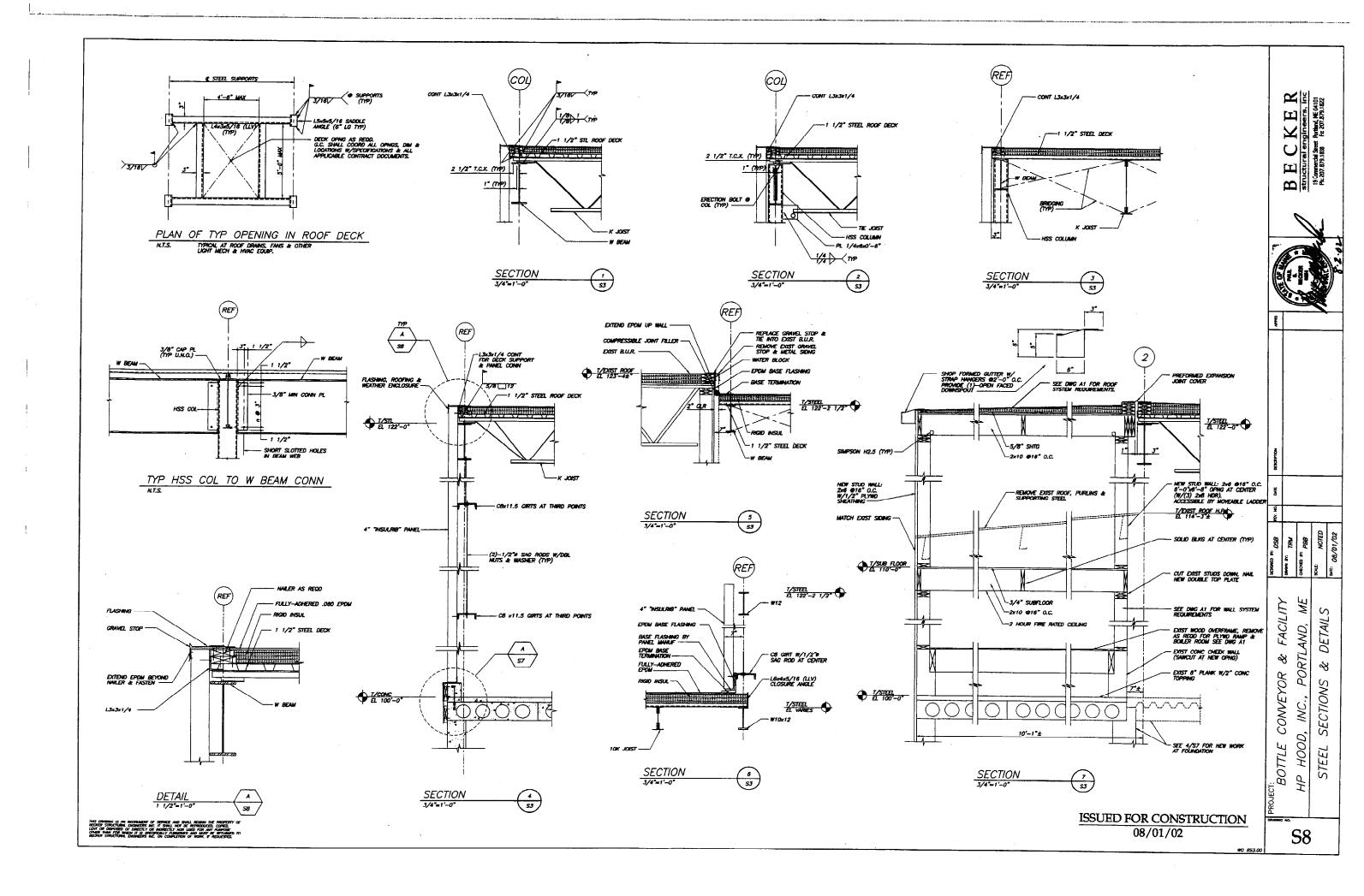


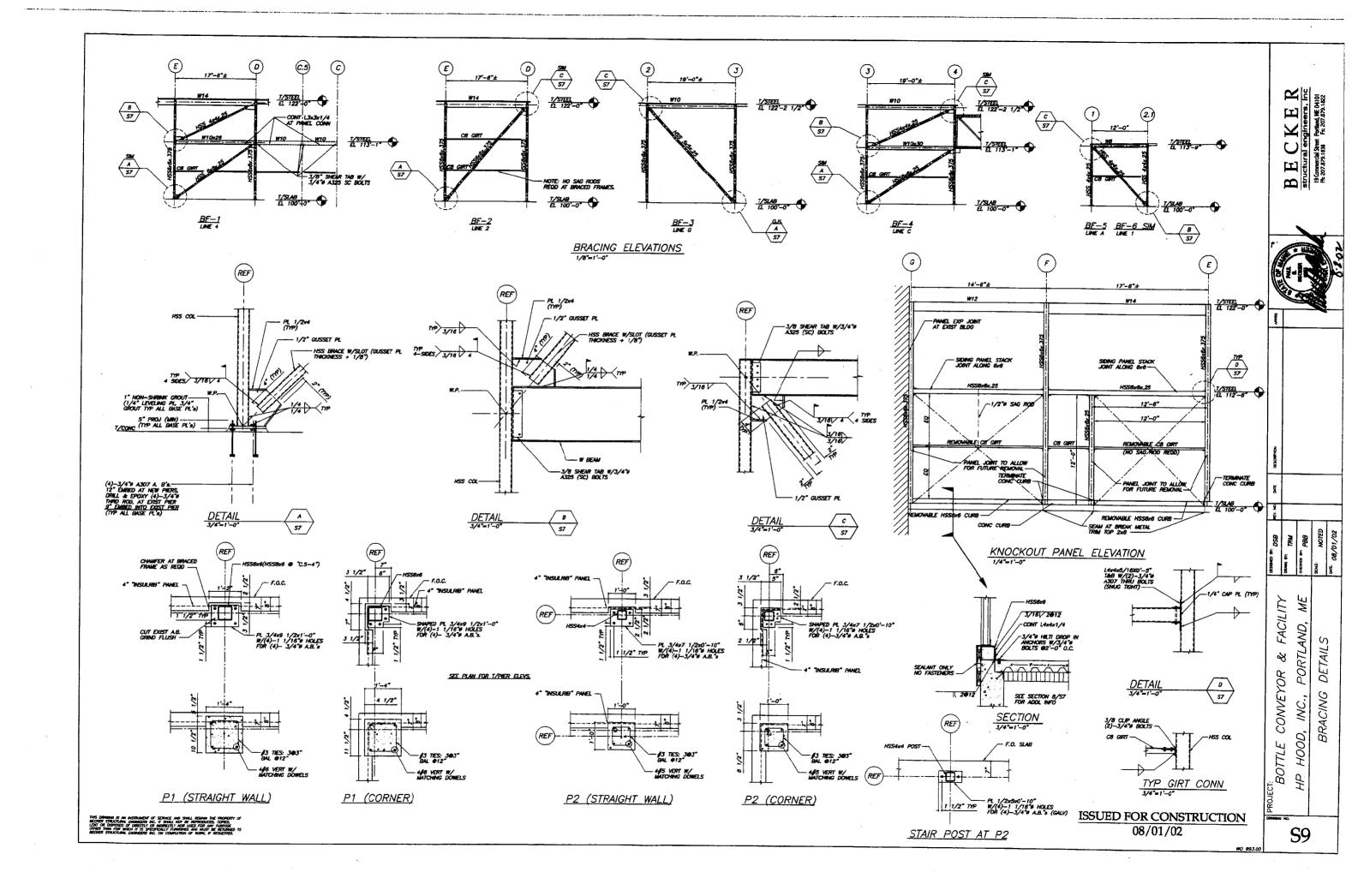


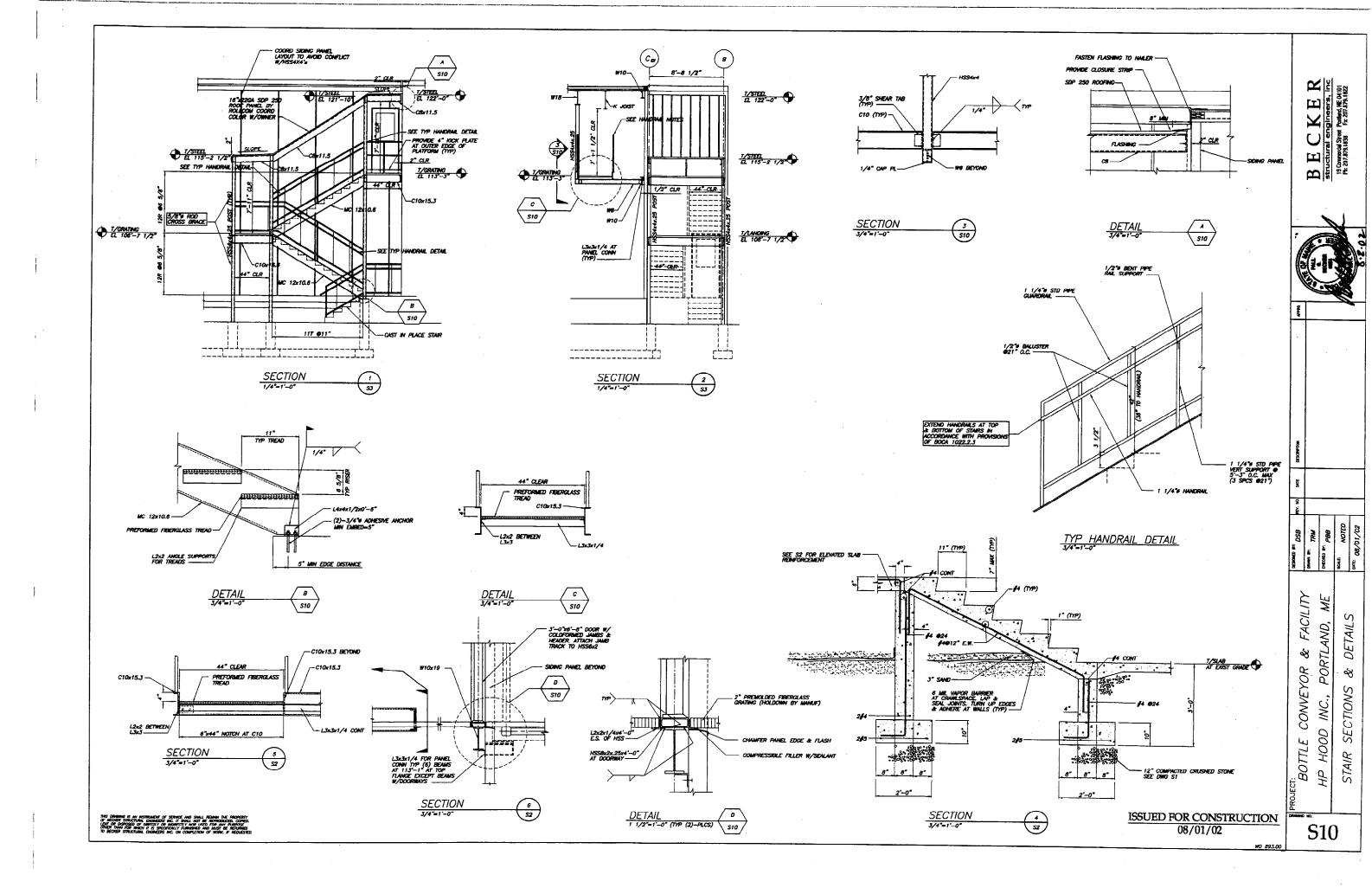












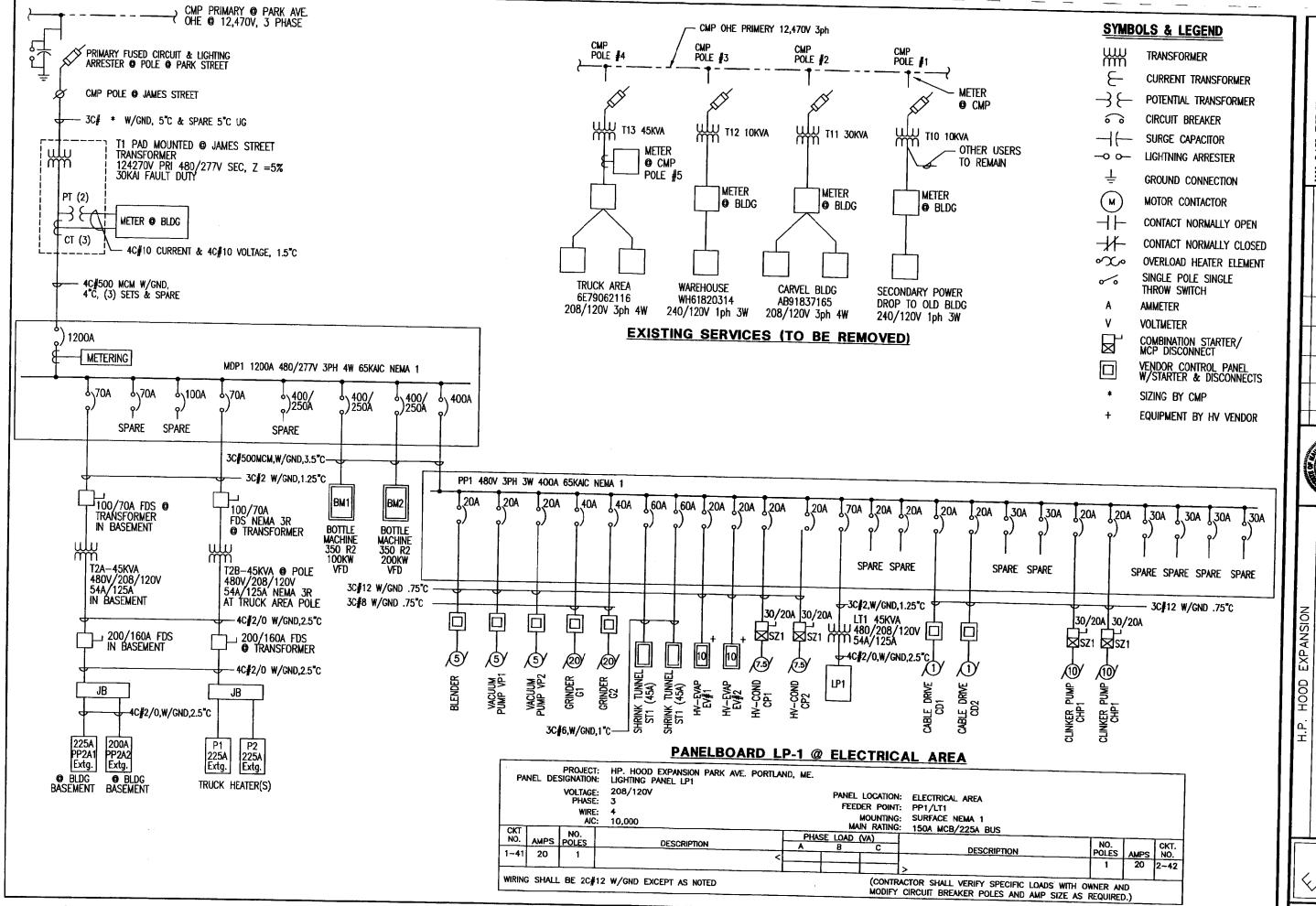
GENERAL NOTES

- 1. ALL CONDUIT & EQUIPMENT SHALL BE INSTALLED & GROUNDED IN ACCORDANCE WITH THE RULES & REGULATIONS OF THE CURRENT NATIONAL ELECTRICAL CODE.
- 2. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT & STRUCTURES. ALL CONDUITS SHALL BE CONCEALED IN WALLS, BELOW FLOOR SLAB, OR ABOVE ANY SUSPENDED CEILINGS. EXPOSED CEILING CONDUITS SHALL BE PERMITTED WHERE SUSPENDED CEILINGS ARE NOT USED. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.
- 3. CONDUITS SHALL BE PROPERLY TERMINATED WITH SQUARE CONNECTIONS TO ALL ASSOCIATED EQUIPMENT.
- ASSOCIATED EQUIPMENT.

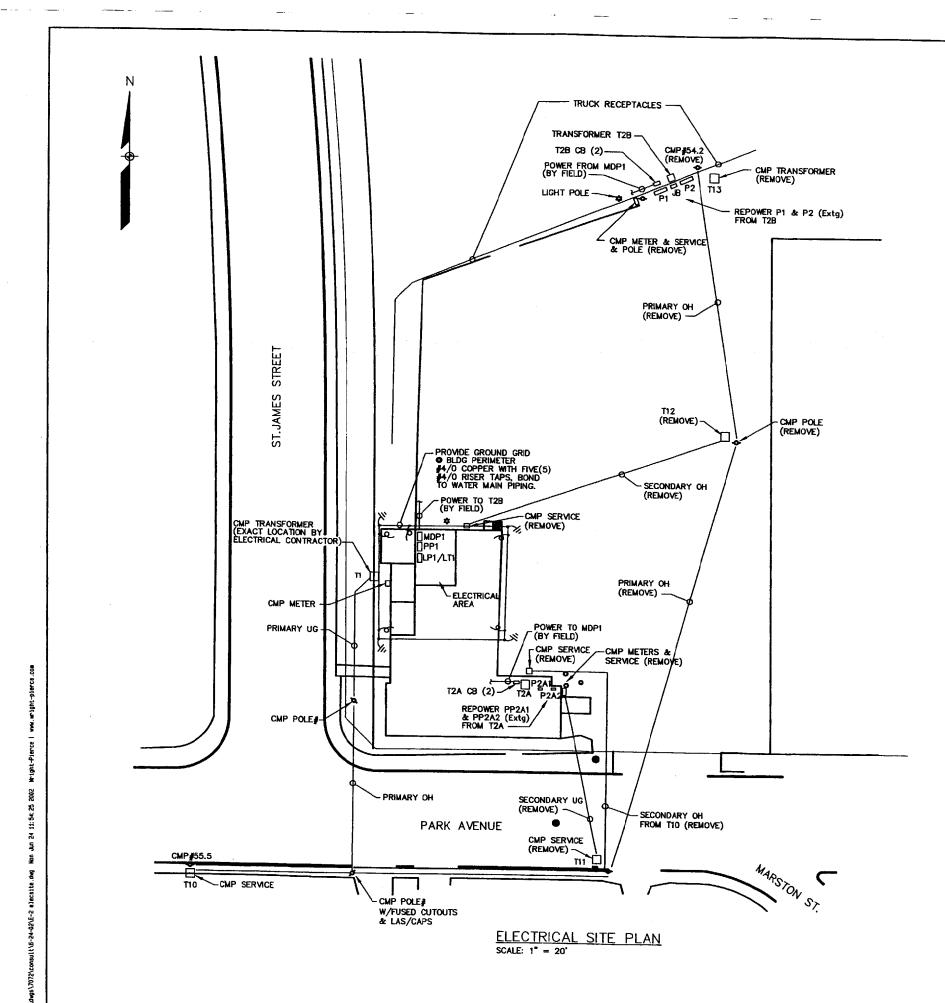
 4. CONTROL AND INSTRUMENTATION CONDUIT SIZES AND NUMBER OF CONDUCTORS SHALL BE DETERMINED FROM SCHEMATIC DIAGRAMS, INSTRUMENTATION DIAGRAMS, VENDOR DOCUMENTATION, AND/OR SPECIFICATIONS, AND AS SHOWN ON PLANS. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS FOR ELECTRICAL AND INSTRUMENTATION EQUIPMENT. MODIFICATIONS APPROVED BY THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. EACH CONTROL AND INSTRUMENTATION CONDUIT SHALL ALSO CONTAIN 10 PER CENT SPARE CONDUCTORS, WITH A MINIMUM OF TWO SPARES, UP TO THE LUMIT OF CONDUIT FILL AS SPECIFIED BY THE NATIONAL ELECTRICAL CODE INSTRUMENTATION SHALL BE INSTALLED IN RGSC CONDUITS. FINAL CONTROL AND INSTRUMENTATION WIRING SHALL BE REVIEWED WHEN VENDER EQUIPMENT SUBMITTALS ARE APPROVED.
- 5. EACH CONDUIT SHALL CARRY GROUND WIRE(S) ACCORDING TO SPECIFICATION SECTION 16450, IN ADDITION TO NUMBER OF CONDUCTORS SHOWN ON DRAWINGS OR PER NOTE 4 ABOVE. ALL GROUNDING MUST CONFORM TO ARTICLE 250 OF CURRENT NATIONAL ELECTRICAL CODE.
- 6. MINIMUM CONDUIT SIZE SHALL BE .75°C. MINIMUM POWER WIRING SHALL BE 2C#12 AWG WITH GROUND, AND 2C#14 FOR CONTROL. INSTRUMENTATION CABLE SHALL BE 2C#16 TWS AND 3C#16 TWS FOR SPEED POTENTIOMETER. LIGHTING, RECEPTACLE, AND HVAC MAY BE .5° CONDUIT INSTALLED PER NEC. PROVIDE CONDUIT AND WIRING AS INDICATED.
- 7. ALL PANEL BOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE TO THE FINISHED FLOOR SHALL NOT EXCEED 8"-6".
- 8. ALL SURFACE MOUNTED PANELS AND PANEL BOARDS ON THE INSIDE OF EXTERIOR WALLS ABOVE GRADE, OR IN OTHER LOCATIONS CONSIDERED AS DAMP, SHALL BE MOUNTED TO MAINTAIN A 1/4" AIR SPACE BETWEEN THE ENCLOSURE AND THE WALL.
- 9. ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE. COORDINATE LOCATIONS WITH PROCESS PIPING, ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS.
- 10. ALL FIELD CONTROL CONDUCTORS SHALL TERMINATE AT INDIVIDUAL TERMINAL BLOCKS WITHIN THE CONTROL ENCLOSURE. SERIES AND PARALLEL CONNECTION OF FIELD CONTROL CONDUCTORS SHALL BE MADE ONLY AT CONTROL PANEL OR MOTOR CONTROL CENTER TERMINAL BLOCKS.
- GROUND ALL CONDUCTOR SHIELDS AT PANEL ONLY DO NOT GROUND SHIELDS AT BOTH ENDS.
- 12. AT THE FOLLOWING LOCATIONS, UNLESS OTHERWISE NOTED, PULL, JUNCTION, TERMINAL, SWITCH, AND OUTLET BOXES SHALL BE CAST IRON WHERE STEEL CONDUIT IS TERMINATED; OR CAST ALUMINUM WHERE ALUMINUM CONDUIT IS TERMINATED:
 - A AT LOCATIONS WHERE VAPOR TIGHT LIGHTING FIXTURES AND/OR WATERTIGHT RECEPTACLES ARE INDICATED.
 - B ~ AT LOCATIONS ON OR IN ALL OUTSIDE WALLS.
 - C ~ OUTDOORS
- 13. NAMEPLATES SHALL CONFORM STRICTLY TO INSTRUCTIONS IN THE ELECTRICAL SPECIFICATIONS AND ON THE DRAWINGS. THE FOLLOWING SHALL HAVE NAMEPLATES:
 - A ALL MAIN BREAKERS AND TIE BREAKERS.
 - B ALL COMPARTMENTS OF MOTOR CONTROL CENTERS EXCLUDING UNUSED
 - C ALL LOCAL CONTROL STATIONS AT OR NEAR EQUIPMENT.
 - D ALL PANELBOARDS.
 - E ALL INSTRUMENTATION.
- 14. PROVIDE HANDHOLES AS REQUIRED FOR U/G FEEDERS AND CONTROL
- 15. PROVIDE EXPANSION FREEZE FITTINGS AS REQUIRED.
- 16. CONTRACTOR SHALL PROVIDE ALL LOCAL DISCONNECTS AND RECEPTACLES FOR HVAC AS REQUIRED BY THE NEC, AND AS SHOWN.
- 17. THE ELECTRIC UTILITY SHALL PROVIDE THE PRIMARY DVERHEAD LINE EXTENSIONS, DISCONNECTS AND LIGHTING ARRESTORS/CAPACITOR MOUNTED ON POLE, PAD MOUNTED TRANSFORMER & METER MOUNTED AT BUILDING, CONTRACTOR SHALL PROVIDE CONDUIT, WIRING, TRANSFORMER PAD, CT ENCLOSURE AND METER ENCLOSURE AS REQUIRED IN ACCORDANCE WITH THE ELECTRIC UTILITY STANDARDS. WHEN THE UTILITY WORK IS COMPLETED. THE FACILITY WILL HAVE ONLY ONE UTILITY SERVICE LOCATED AT T1 St. JAMES STREET.
- 18. OWNER AND ENGINEER SHALL REVIEW THE VENDOR EQUIPMENT SUBMITTALS.
- 19. CONTRACTOR SHALL REVIEW SITE PRIOR TO BIDDING AND CLARIFY ANY UNCERTAINTIES CONCERNING REMOVALS. ANY ADDITIONAL WORK NOT COVERED BY THE CONTRACTORS BID AND/OR OVER REMOVALS REQUIRING ADDITIONAL REWORK SHALL BE AT CONTRACTORS EXPENSE.
- 20. PATCH AND SEAL ALL PENETRATIONS AT EXTERIOR WALL TO PREVENT WATER LEAKAGE INTO BUILDING, PLUG AND SEAL MAIN THROUGH BUILDING CROSS TIE CONDUIT.
- 21. PROVIDE ALL CONDUIT, WIRING AND MISCELLANEOUS CONTROL DEVICES AS INDICATED BY THE SCHEMATICS, SINGLE LINE DIAGRAMS, SCHEDULES, PLANS, SPECIFICATIONS AND VENDOR DOCUMENTATION TO PROVIDE A COMPLETE WORKING SYSTEM.
- 22. PRIOR TO PURCHASING MDP AND PPI OWNER AND ENGINEER SHALL VERIFY SPECIFIC EQUIPMENT SIZING.
- 23. REFERENCE SEBAGO TECHNICS DWG #02122EC AS BASE PLAN DATA.
- 24. INSTRUMENTATION SHALL BE RUN IN METAL CONDUIT. VFD POWER FROM VFD TO MOTOR SHALL BE RUN IN METAL CONDUIT. SERIAL COMMUNICATIONS SIGNALS SHALL BE RUN IN METAL CONDUIT. TELEPHONE, FIRE ALARM AND SECURITY SHALL BE RUN IN METAL CONDUIT. POWER AND CONTROL UNDER SLAB MAY BE RUN IN PVC CONDUIT.

	Summitodes about 440 IIII	UAIN KILIVAE ASSUCIATES 100 totas Street Bramets tides 04011 14, 207-728-9014 Frz. 207-728-9004 samutanatus.	Arnold F. P. Standish P.E.
"Himmin"	Name of the second of the seco	1	A SALAL REGISTERED PROFESSIONAL ENGINEER DATE
	H.P. HOOD EXPANSION	Z ELECTRICAL SITE PLAN	HOOD 201 CADD MG. E-1 1"=20' CONTRACT: JOB NO. DRBY DENBY CHKBY APP.BY HOOD 201 MBD AFS AFS AFS

SHEET - OF -



K RIDGE ASSOCIATES
10 Strat, Brundet Main 04011
1729-0614 Frs. 201-729-0604, ampailablings OAK 108 seales 20 re. 207-725 Armold LINE SINGLE ELECTRICAL



GENERAL NOTES

- 1. ALL CONDUIT & EQUIPMENT SHALL BE INSTALLED & GROUNDED IN ACCORDANCE WITH THE RULES & REGULATIONS OF THE CURRENT NATIONAL ELECTRICAL CODE.
- 2. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT & STRUCTURES. ALL CONDUITS SHALL BE CONCEALED IN WALLS, BELOW FLOOR SLAB, OR ABOVE ANY SUSPENDED CEILINGS. EXPOSED CEILING CONDUITS SHALL BE PERMITTED WHERE SUSPENDED CEILINGS ARE NOT USED. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.
- 3. CONDUITS SHALL BE PROPERLY TERMINATED WITH SQUARE CONNECTIONS TO ALL ASSOCIATED EQUIPMENT.
- ASSOCIATED EQUIPMENT.

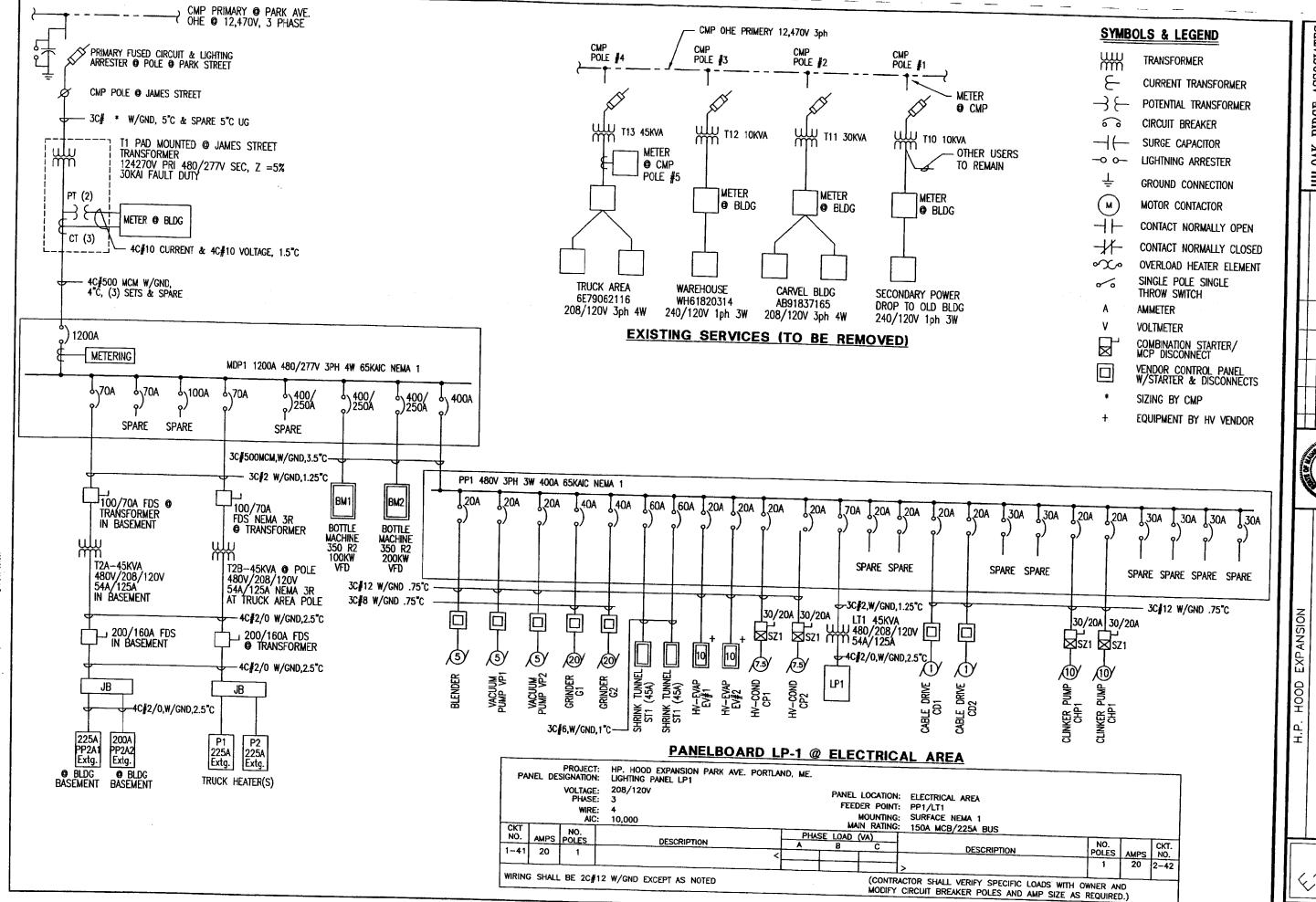
 4. CONTROL AND INSTRUMENTATION CONDUIT SIZES AND NUMBER OF CONDUCTORS SHALL BE DETERMINED FROM SCHEMATIC DIAGRAMS, INSTRUMENTATION DIAGRAMS, VENDOR DOCUMENTATION, AND/OR SPECIFICATIONS, AND AS SHOWN ON PLANS. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS FOR ELECTRICAL AND INSTRUMENTATION EQUIPMENT. MODIFICATIONS APPROVED BY THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. EACH CONTROL AND INSTRUMENTATION CONDUIT SHALL ALSO CONTAIN 10 PER CENT SPARE CONDUCTORS, WITH A MINIMUM OF TWO SPARES, UP 10 THE LIMIT OF CONDUIT FILL AS SPECIFIED BY THE NATIONAL ELECTRICAL CODE. INSTRUMENTATION SHALL BE INSTALLED IN RGSC CONDUITS. FINAL CONTROL AND INSTRUMENTATION SHALL BE INSTALLED IN RGSC CONDUITS. FINAL CONTROL AND INSTRUMENTATION WIRING SHALL BE REVIEWED WHEN VENDER EQUIPMENT SUBMITTALS ARE APPROVED.
- 5. EACH CONDUIT SHALL CARRY GROUND WIRE(S) ACCORDING TO SPECIFICATION SECTION 16450, IN ADDITION TO NUMBER OF CONDUCTORS SHOWN ON DRAWINGS OR PER NOTE 4 ABOVE. ALL GROUNDING MUST CONFORM TO ARTICLE 250 OF CURRENT NATIONAL ELECTRICAL CODE.
- 6. MINIMUM CONDUIT SIZE SHALL BE .75°C. MINIMUM POWER WIRING SHALL BE 2C#12 AWG WITH GROUND, AND 2C#14 FOR CONTROL. INSTRUMENTATION CABLE SHALL BE 2C#16 TWS AND 3C#16 TWS FOR SPEED POTENTIOMETER. LIGHTING, RECEPTACLE, AND HAVE MAY BE .5" CONDUIT INSTALLED PER NEC. PROVIDE CONDUIT AND WIRING AS INDICATED.
- 7. ALL PANEL BOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE TO THE FINISHED FLOOR SHALL NOT EXCEED 6"-6".
- 8. ALL SURFACE MOUNTED PANELS AND PANEL BOARDS ON THE INSIDE OF EXTERIOR WALLS ABOVE GRADE, OR IN OTHER LOCATIONS CONSIDERED AS DAMP, SHALL BE MOUNTED TO MAINTAIN A 1/4" AIR SPACE BETWEEN THE ENCLOSURE AND THE WALL.
- 9. ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE. COORDINATE LOCATIONS WITH PROCESS PIPING, ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS.
- 10. ALL FIELD CONTROL CONDUCTORS SHALL TERMINATE AT INDMDUAL TERMINAL BLOCKS WITHIN THE CONTROL ENCLOSURE. SERIES AND PARALLEL CONNECTION OF FIELD CONTROL CONDUCTORS SHALL BE MADE ONLY AT CONTROL PANEL OR MOTOR CONTROL CENTER TERMINAL BLOCKS.
- GROUND ALL CONDUCTOR SHIELDS AT PANEL ONLY DO NOT GROUND SHIELDS AT BOTH ENDS.
- 12. AT THE FOLLOWING LOCATIONS, UNLESS OTHERWISE NOTED, PULL, JUNCTION, TERMINAL, SWITCH, AND OUTLET BOXES SHALL BE CAST IRON WHERE STEEL CONDUIT IS TERMINATED; OR CAST ALUMINUM WHERE ALUMINUM CONDUIT IS TERMINATED:
 - A AT LOCATIONS WHERE VAPOR TIGHT LIGHTING FIXTURES AND/OR WATERTIGHT RECEPTACLES ARE INDICATED.

 - B AT LOCATIONS ON OR IN ALL OUTSIDE WALLS. C - OUTDOORS
- 13. NAMEPLATES SHALL CONFORM STRICTLY TO INSTRUCTIONS IN THE ELECTRICAL SPECIFICATIONS AND ON THE DRAWINGS. THE FOLLOWING SHALL HAVE NAMEPLATES:
 - A ALL MAIN BREAKERS AND TIE BREAKERS.
 - ${\sf B}-{\sf ALL}$ compartments of motor control centers excluding unused
 - C ALL LOCAL CONTROL STATIONS AT OR NEAR EQUIPMENT.
 - D ALL PANELBOARDS.
 - E ALL INSTRUMENTATION.
- 14. PROVIDE HANDHOLES AS REQUIRED FOR U/G FEEDERS AND CONTROL
- 15. PROVIDE EXPANSION FREEZE FITTINGS AS REQUIRED.
- 16. CONTRACTOR SHALL PROVIDE ALL LOCAL DISCONNECTS AND RECEPTACLES FOR HVAC AS REQUIRED BY THE NEC, AND AS SHOWN.
- 17. THE ELECTRIC UTILITY SHALL PROVIDE THE PRIMARY DVERHEAD LINE EXTENSIONS, DISCONNECTS AND LIGHTING ARRESTORS/CAPACITOR MOUNTED ON POLE, PAD MOUNTED TRANSFORMER & METER MOUNTED AT BUILDING, CONTRACTOR SHALL PROVIDE CONDUIT, WIRING, TRANSFORMER PAD, CT ENCLOSURE AND METER ENCLOSURE AS REQUIRED IN ACCORDANCE WITH THE ELECTRIC UTILITY STANDARDS. WHEN THE UTILITY WORK IS COMPLETED, THE FACILITY WILL HAVE ONLY ONE UTILITY SERVICE LOCATED AT T1 St. JAMES STREET.
- 18. OWNER AND ENGINEER SHALL REVIEW THE VENDOR EQUIPMENT SUBMITTALS.
- 19. CONTRACTOR SHALL REVIEW SITE PRIOR TO BIDDING AND CLARIFY ANY UNCERTAINTIES CONCERNING REMOVALS. ANY ADDITIONAL WORK NOT COVERED BY THE CONTRACTORS BID AND/OR OVER REMOVALS REQUIRING ADDITIONAL REWORK SHALL BE AT CONTRACTORS EXPENSE.
- 20. PATCH AND SEAL ALL PENETRATIONS AT EXTERIOR WALL TO PREVENT WATER LEAKAGE INTO BUILDING, PLUG AND SEAL MAIN THROUGH BUILDING CROSS TIE CONDUIT.
- 21. PROVIDE ALL CONDUIT, WIRING AND MISCELLANEOUS CONTROL DEVICES AS INDICATED BY THE SCHEMATICS, SINGLE LINE DIAGRAMS, SCHEDULES, PLANS, SPECIFICATIONS AND VENDOR DOCUMENTATION TO PROVIDE A COMPLETE WORKING SYSTEM.
- 22. PRIOR TO PURCHASING MDP AND PPI OWNER AND ENGINEER SHALL VERIFY SPECIFIC EQUIPMENT SIZING.
- 23. REFERENCE SEBAGO TECHNICS DWG #02122EC AS BASE PLAN DATA.
- 24. INSTRUMENTATION SHALL BE RUN IN METAL CONDUIT, VFD POWER FROM VFD TO MOTOR SHALL BE RUN IN METAL CONDUIT. SERIAL COMMUNICATIONS SIGNALS SHALL BE RUN IN METAL CONDUIT. TELEPHONE, FIRE ALARM AND SECURITY SHALL BE RUN IN METAL CONDUIT. POWER AND CONTROL UNDER SLAB MAY BE RUN IN PVC CONDUIT.

		III OAK RIDGE AGGOCIATEG	MINIOPORT TRANSPORT	105 Mothe Street, Brusenick Moine 04(7)1	Tel, 207-729-9814 Fex, 207-729-9654 paperdentarional
March Harden		mail:	STANDISH 0 06/22/02 MBD AFS AFS ISSUED FOR PERMIT	No. Date Dr.By Ck.By App.By Description	A P P R O V E D
	H.P. HOOD EXPANSION				FLECTRICAL SILE PLAN
	<	<-	/	_	

ည္သ

SHEET - OF -

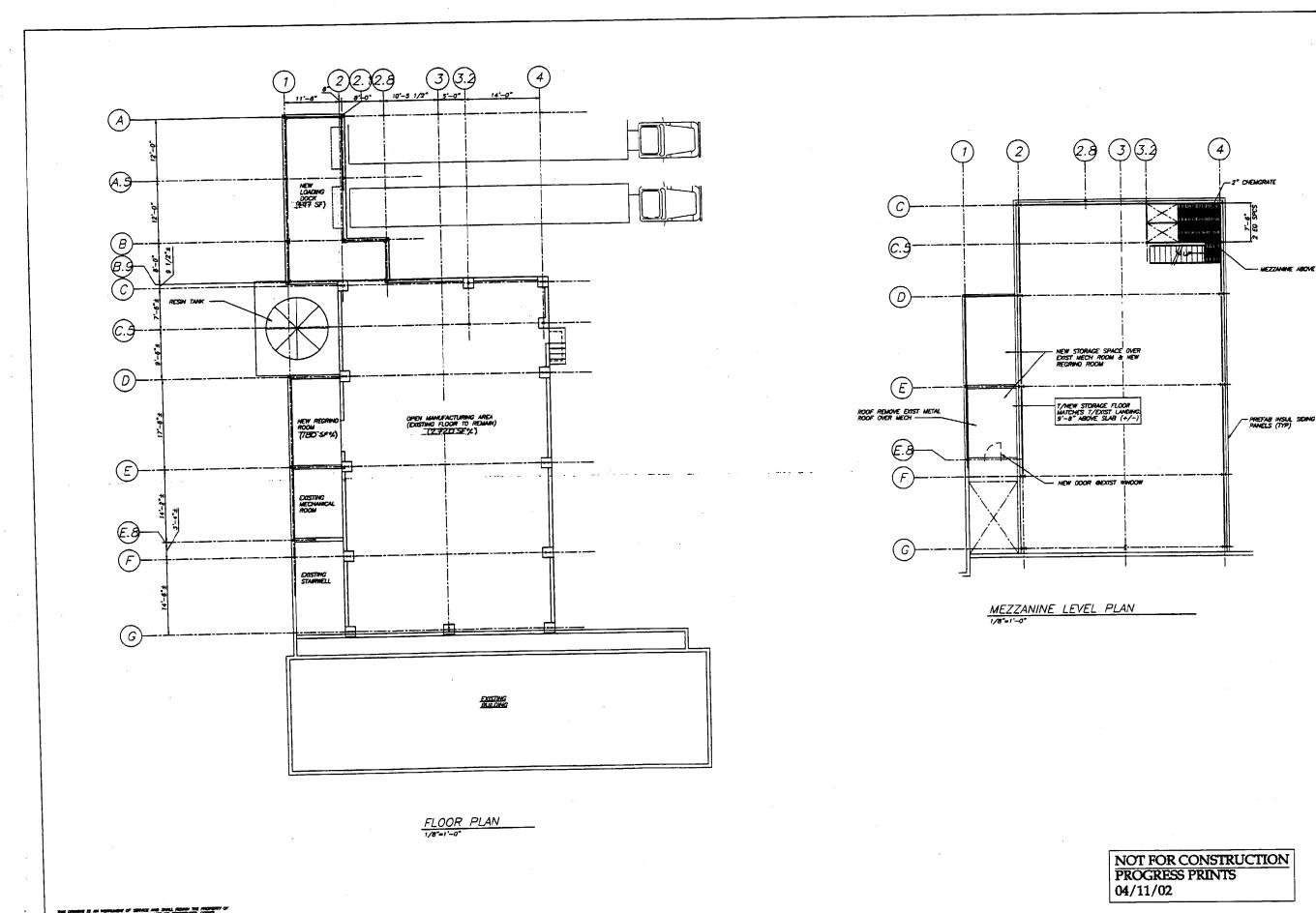


MACHINE AND AFS AFS ISSUED FOR PERMIT 100 MAK RIDGE ASSOCIATIES

No. Dete Dr.By App.By Description 14 207-729-804 Faz 207-729-

ELECTRICAL SINGLE LINE

SHEET OF

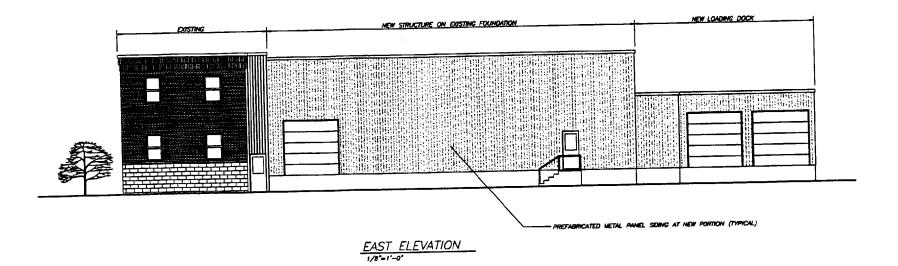


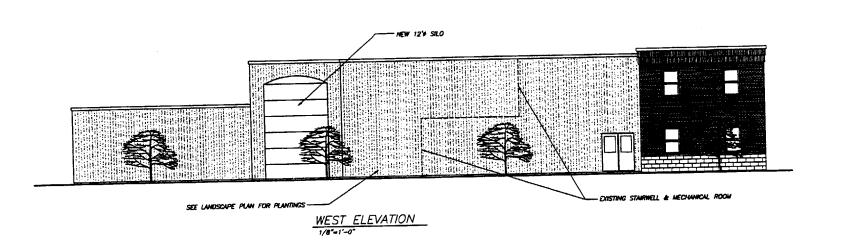
CONVEYOR PLAN PRELIMINARY FLOOR

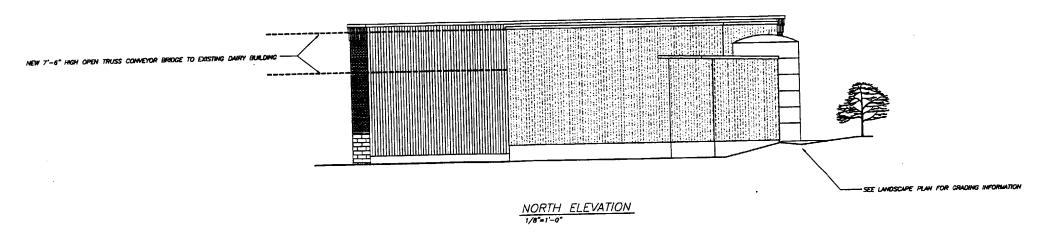
BECKER STUCKUTAL ENGINEERS, INC. 15 COMMUNICATION PRINTED IN THE STUCKUTS IN

A1

JECT: H.P.







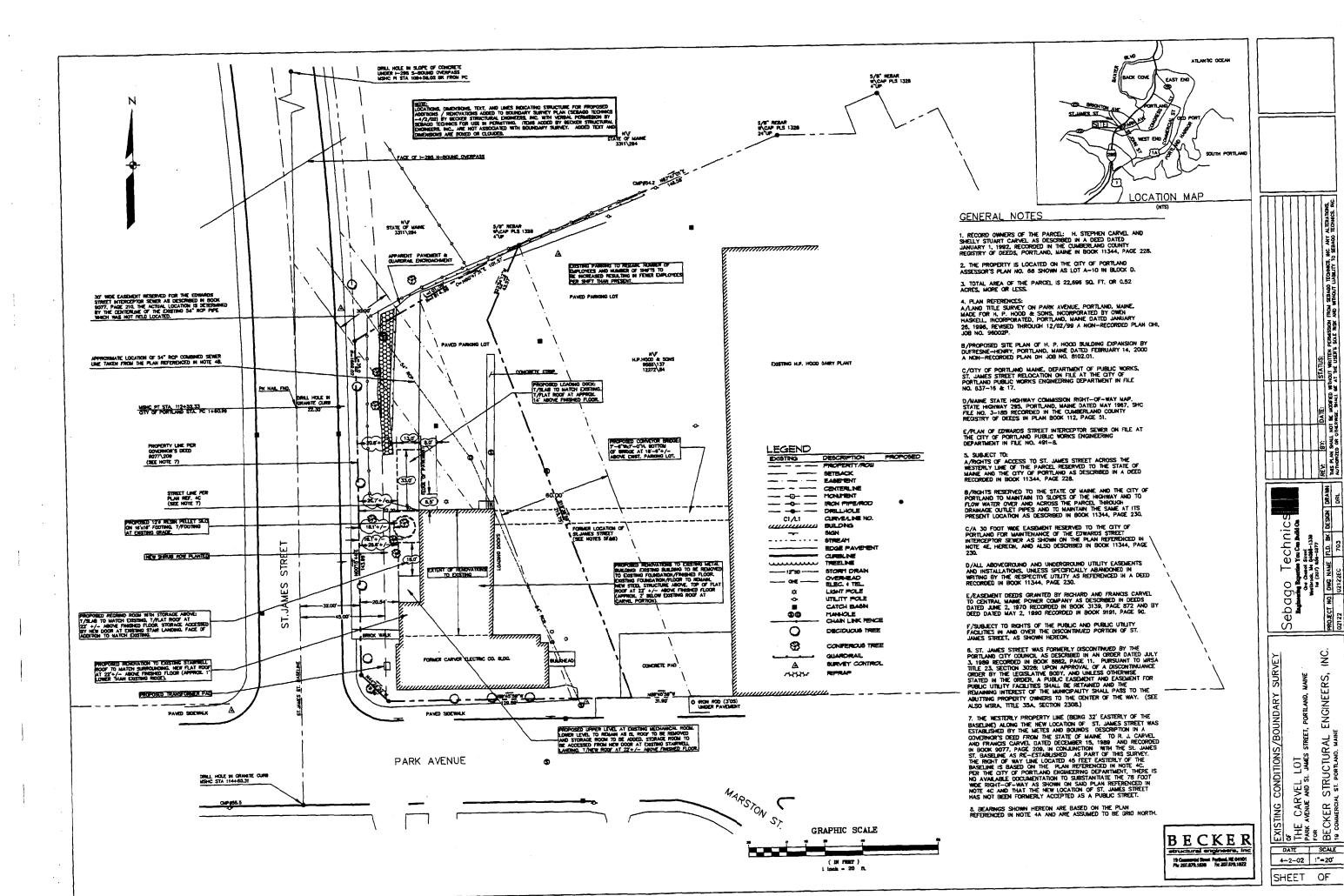
NOT FOR CONSTRUCTION PROCRESS PRINTS 05/14/02

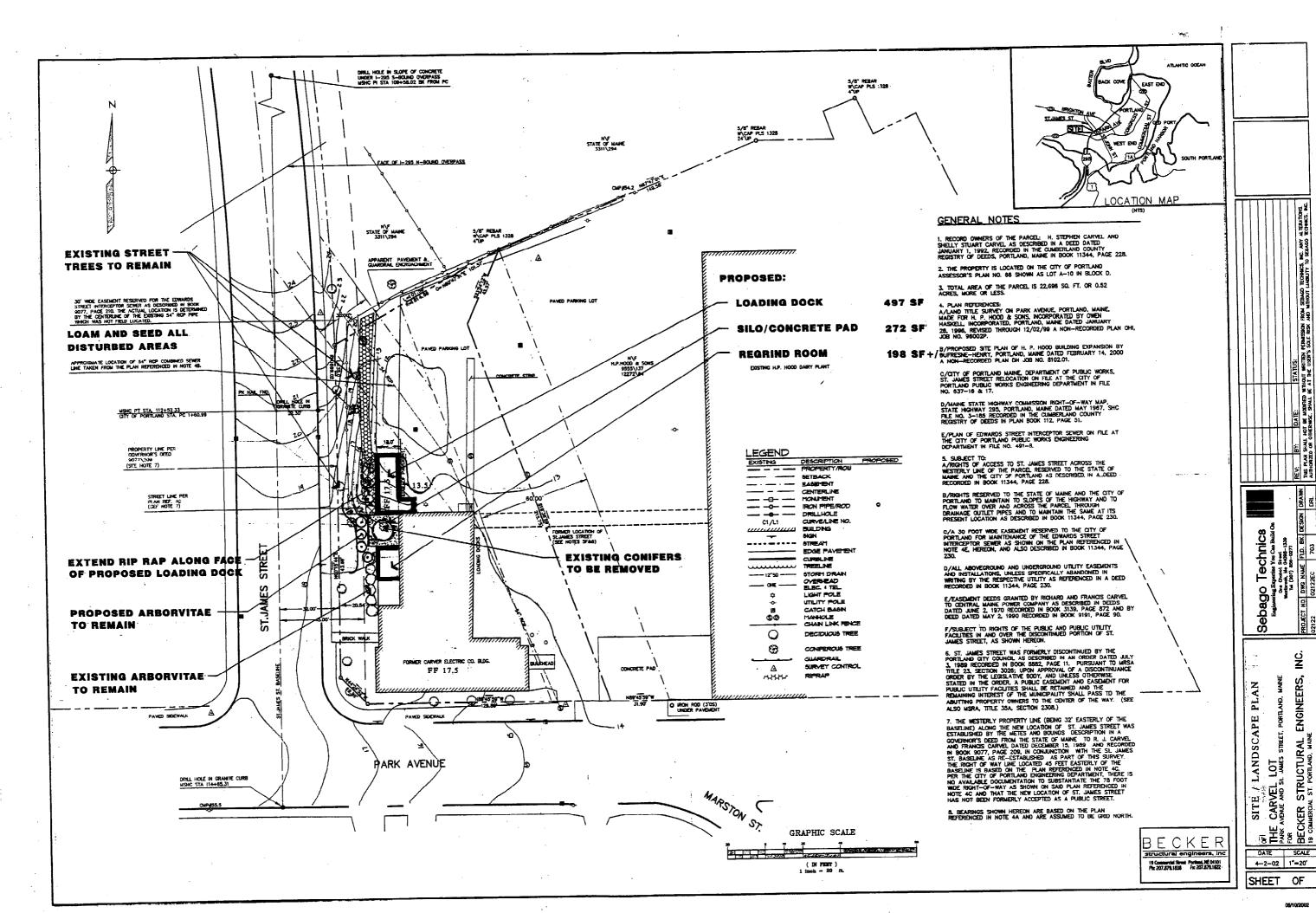
WO 893

PROJECT: BOTTLE CONVEYOR & FACILITY HP HOOD INC., PORTLAND, ME A2

SINOITMID ID VALANTINIDO

BECKER Structural engineers, Inc. 19 Connected Steel Pulled HE CHILD PLE 201 279 1838 HE 201 279 1822





ÿ

ENGINEERS,

STRUCTURAL I

CKER

REBAR LAP SPLICE TABLE				
BAR SIZE	LAP LENGTH			
BAN SIZE	3,000 PS1	4,000 PS1		
/3	30"	24"		
<i>[</i> 4	36"	.32°		
/ 5	490	42"		
<i>/</i> *	56"	46"		
P7	81*	72°		

COMMENT ME FEMALE

POSTAGE AND PERSONNER WILLD

A STRUMENT MORE PER GOOD FOR

C. W/C PARTS: C. BEAC, ST. MAY

E. SLAMP, 4" MAY

STRUMENT MORE COMMENT

A STRUMENT MORE

STRUMENT MORE

STRUMENT MORE

C. W/C PARTS: C. BEAC, ST. MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. STRUMENT

C. STRUMENT

C. W/C PARTS: C. C. BEAC, ST. MAY

C. W/C PARTS: C. C. BEAC, ST. MAY

C. W/C PARTS: C. C. BEAC, ST. MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4" MAY

C. SLAMP, 4

18. FOR ALL OPENINGS IN CONCRETE WILLS AND SLASS, PROVIDE SUPPLIES ASSESSMENT APPLIES OF PROVIDE AS SHOWN ON THE COMMING DOCUMENTS THROOL DETMIS.

S. HENFORCHIS FOR BOND BOND, LIMTE, BLOCKS AND VERTICAL TITLL RESIDENCIACHO SHILL BE BILLET STEEL CONFORMING TO ASTM ARTS, GRADE BD

, THE METHL ROOF AND FLOOR DECK SHALL BE FORMED OF STEEL SHEETS CONFIGURATIO TO ASTAL STANDARD ARTS.

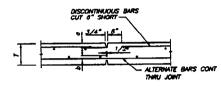
DESIGN, DETAL, FARMCATE AND EMECT STEEL JOISTS IN ACCORDANCE WITH THE LANEST EDITION OF STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE

A. PROVIDE ALL ANGLES, PLATES, ANCHORS, BOLTS, ETC., SHOWN ON ACCUSTOMAL DENIMINES.

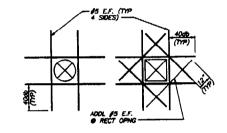
PASTONING HOT SPECIFIED SHALL CONFORM WITH BOCK TABLE 2305.2

R. JOHET HANGERS, BEAN HANGERS, POST BYSET AND CIP PLATES SYNL. BE AS PROCURED ON THE DRINNINGS AND MANUFACTURED BY SUPSON COMMINY OR COMM. AS APPROVED BY THE DISBURER, RETRY TO MANUFACTURERS LITERATURE FOR PROPER PROGRAM

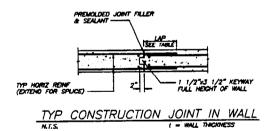
TYP SLAB DETAIL @ DOOR

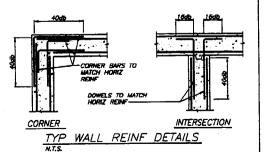


TYP CONTROL JOINT IN WALL



TYP OPENING IN WALL OR SLAB





NOT FOR CONSTRUCTION PROGRESS PRINTS 05/22/02

S1

PB 1784

ME

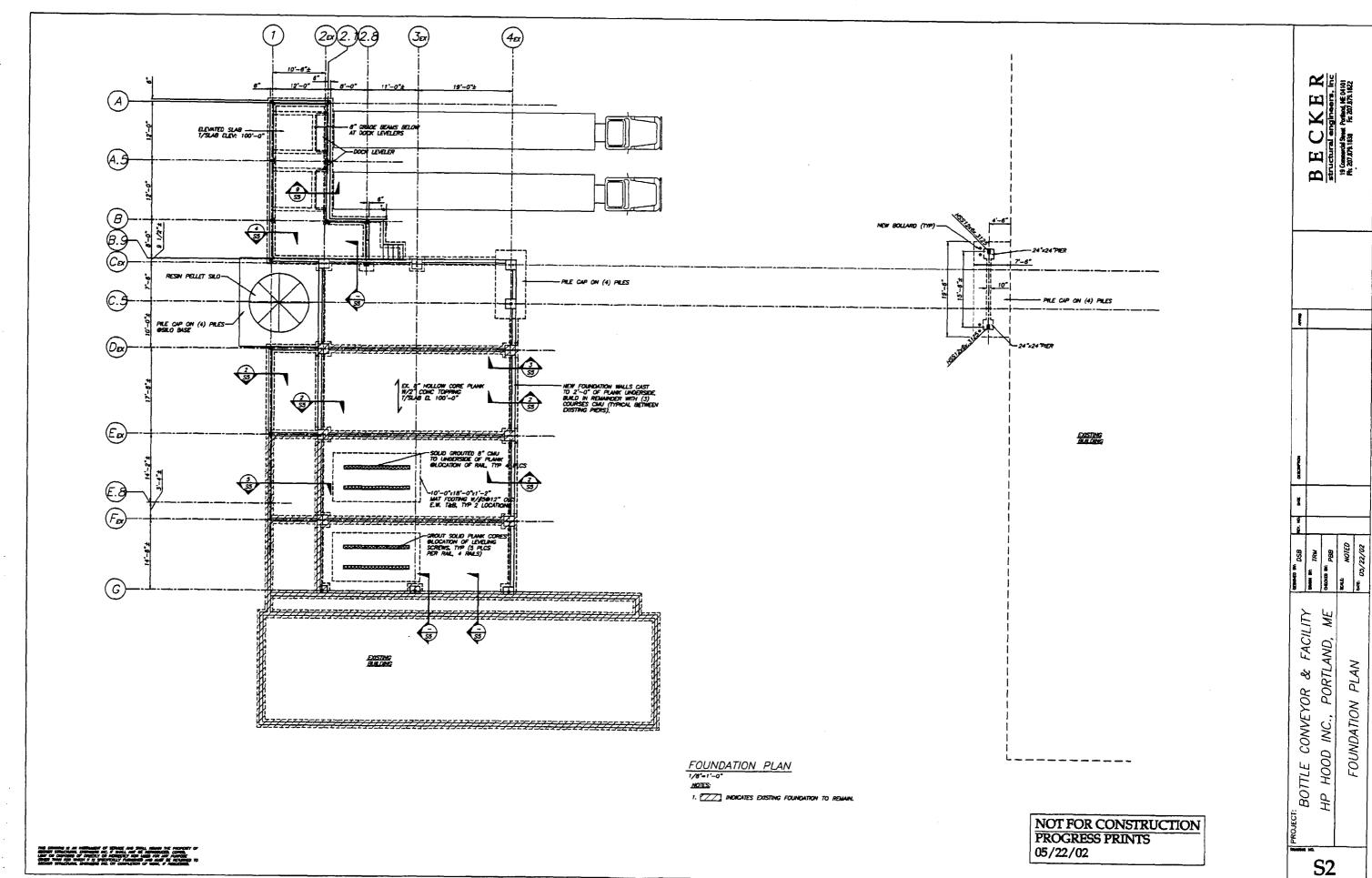
શ્ર

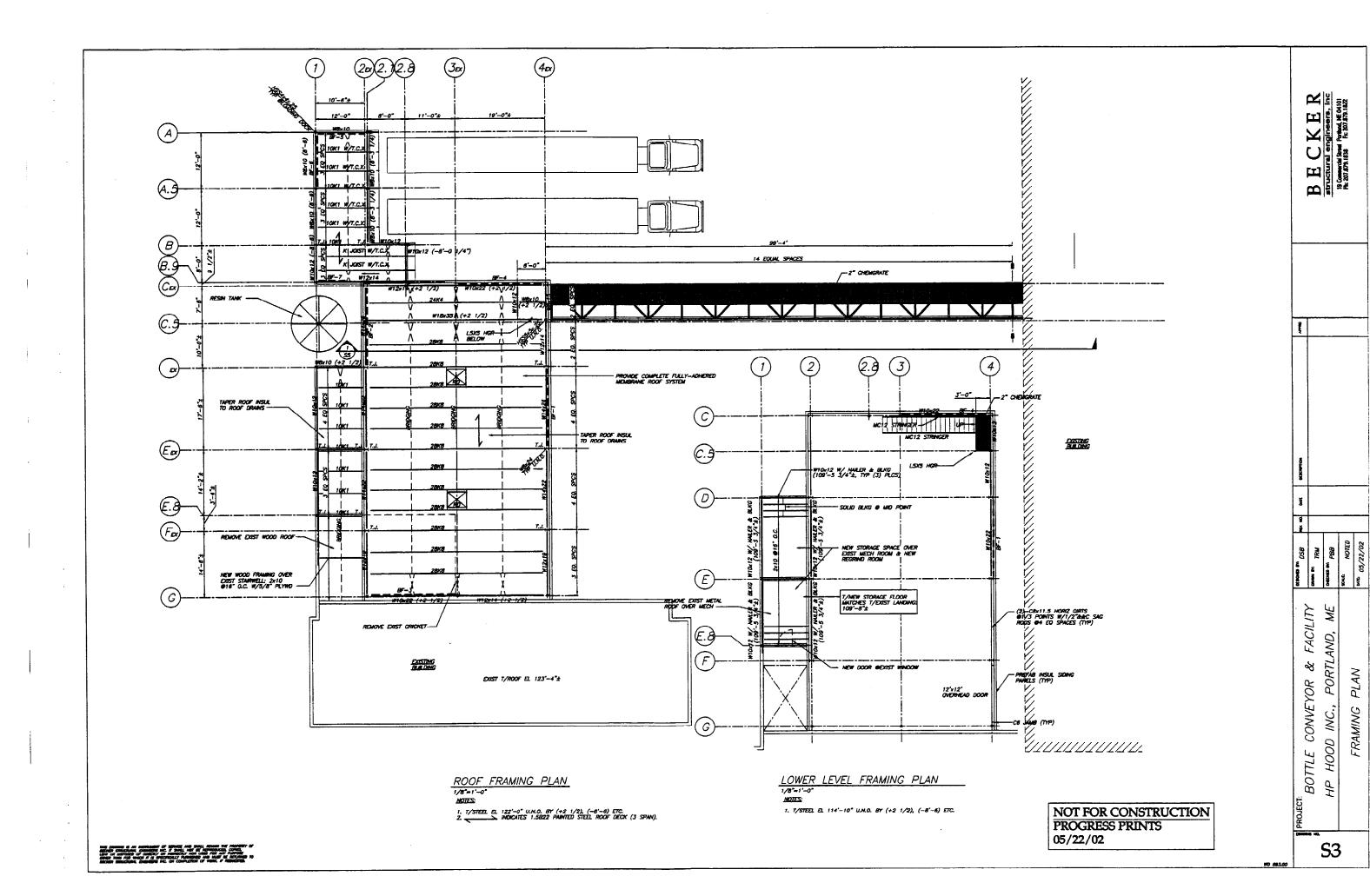
CONVEYOR

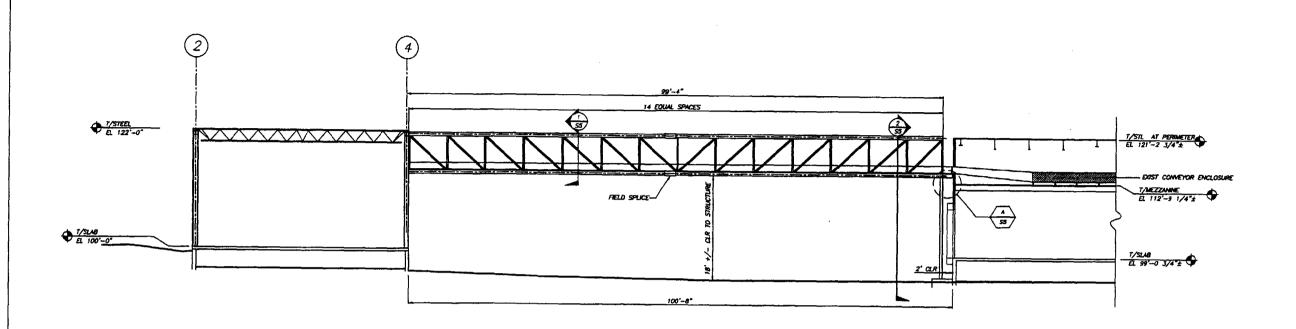
BOTTLE

田 Ers. Inc.

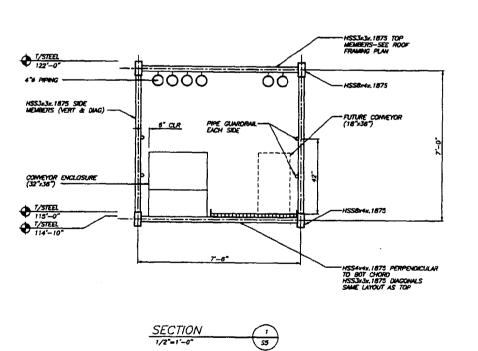
田릙

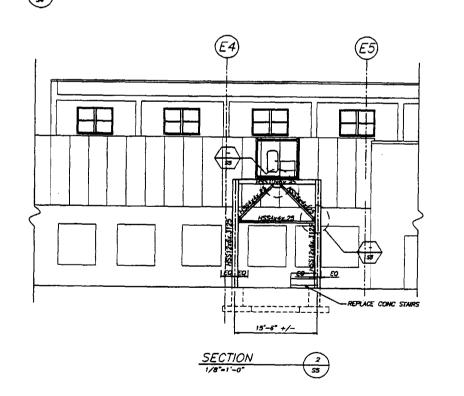






SECTION





NOT FOR CONSTRUCTION PROGRESS PRINTS 05/22/02

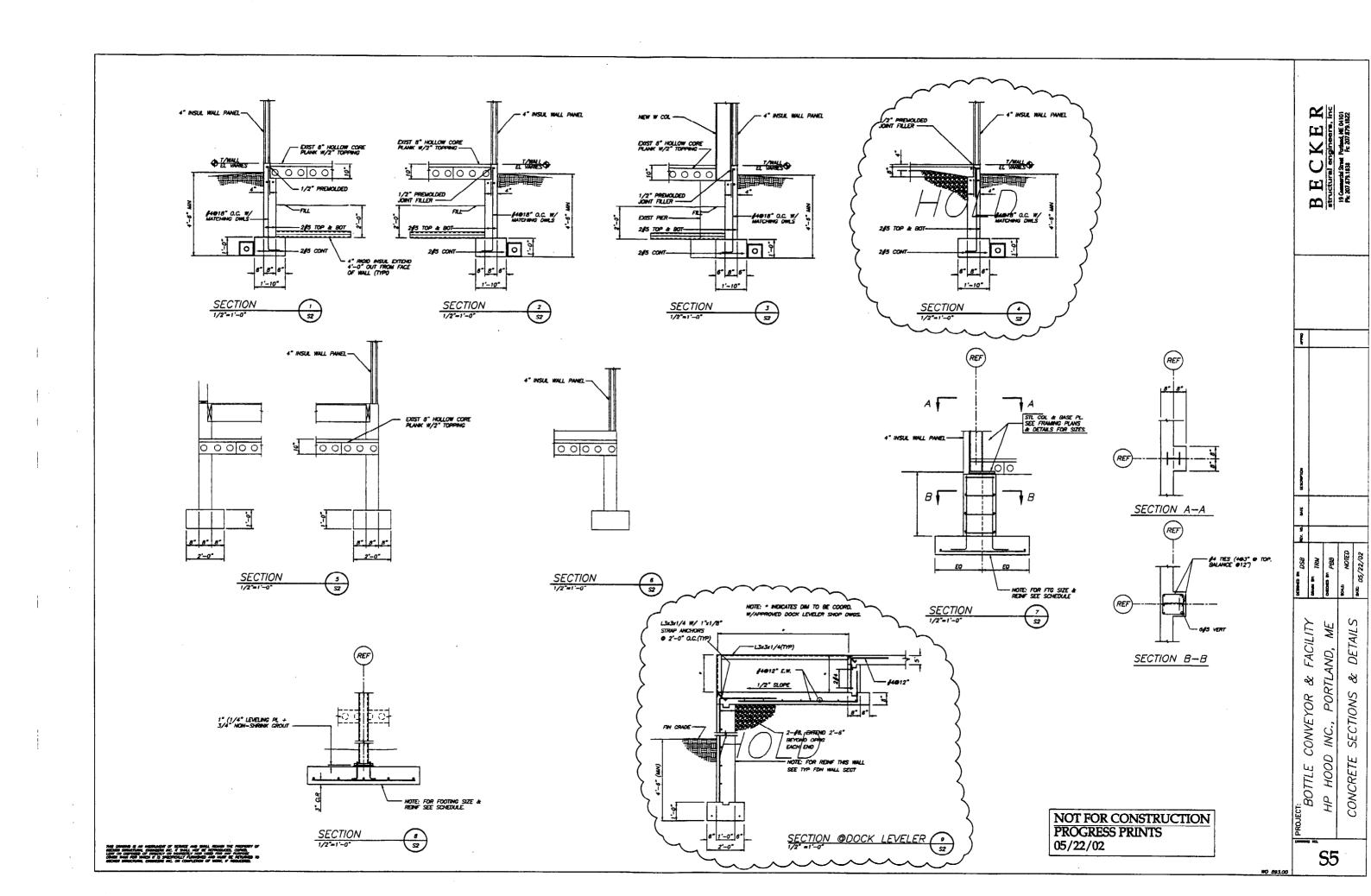
MOCHES STRUCTURE, CHARGES MC. IT SHELL HOT BE REPRODUCED, COPIED, LONG OF REPRODUCED OF RESERVEY OF REPRODUCED HAVE LABOR FOR ANY PRINCIPLES CHARGE THAN FOR MINES IT IS SHELTON PROPERTIES MAY MAKE BE RECEIVED TO RECORD SPRUCTURE, REMORDERS MC. ON COMPLETION OF WORK, IF RESERVENCE

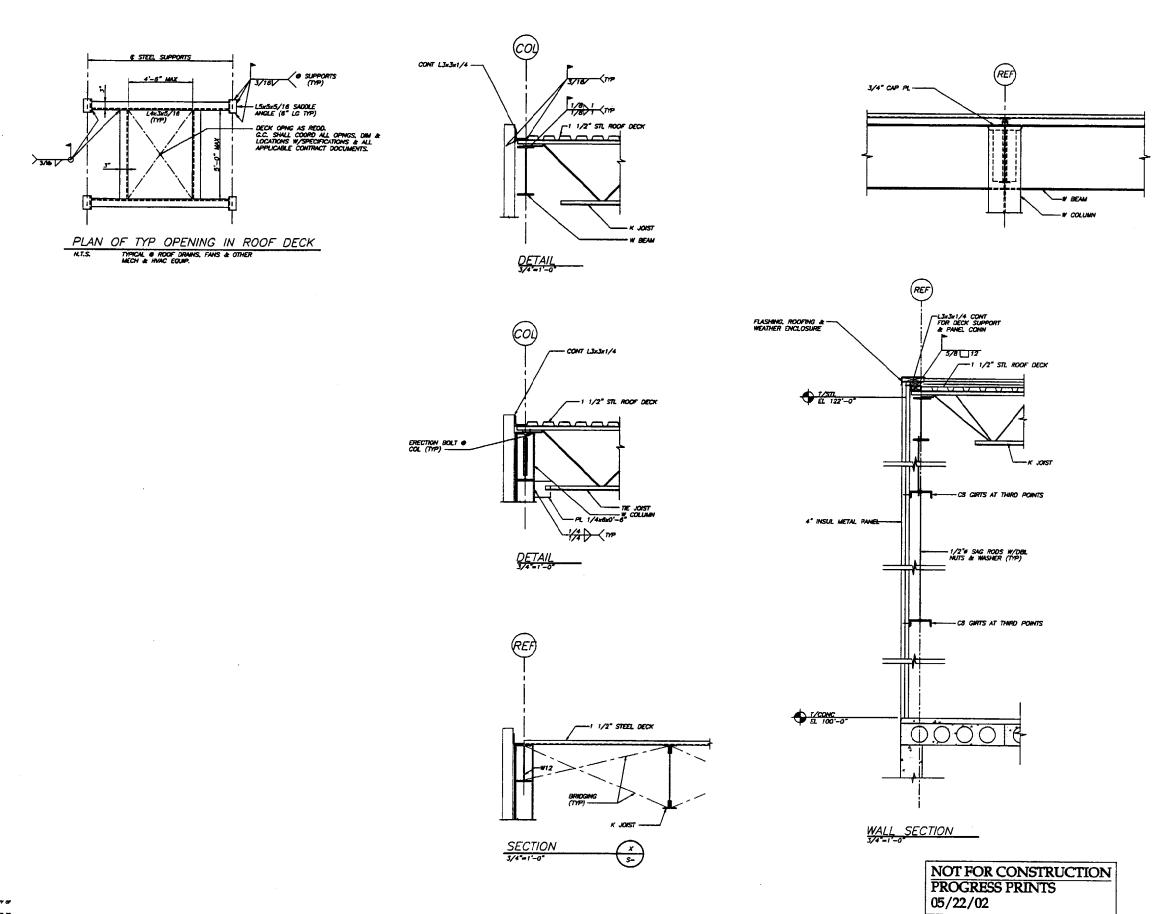
S4

ROTTLE CONVEYOR & FACILITY

HOOD INC., PORTLAND, ME

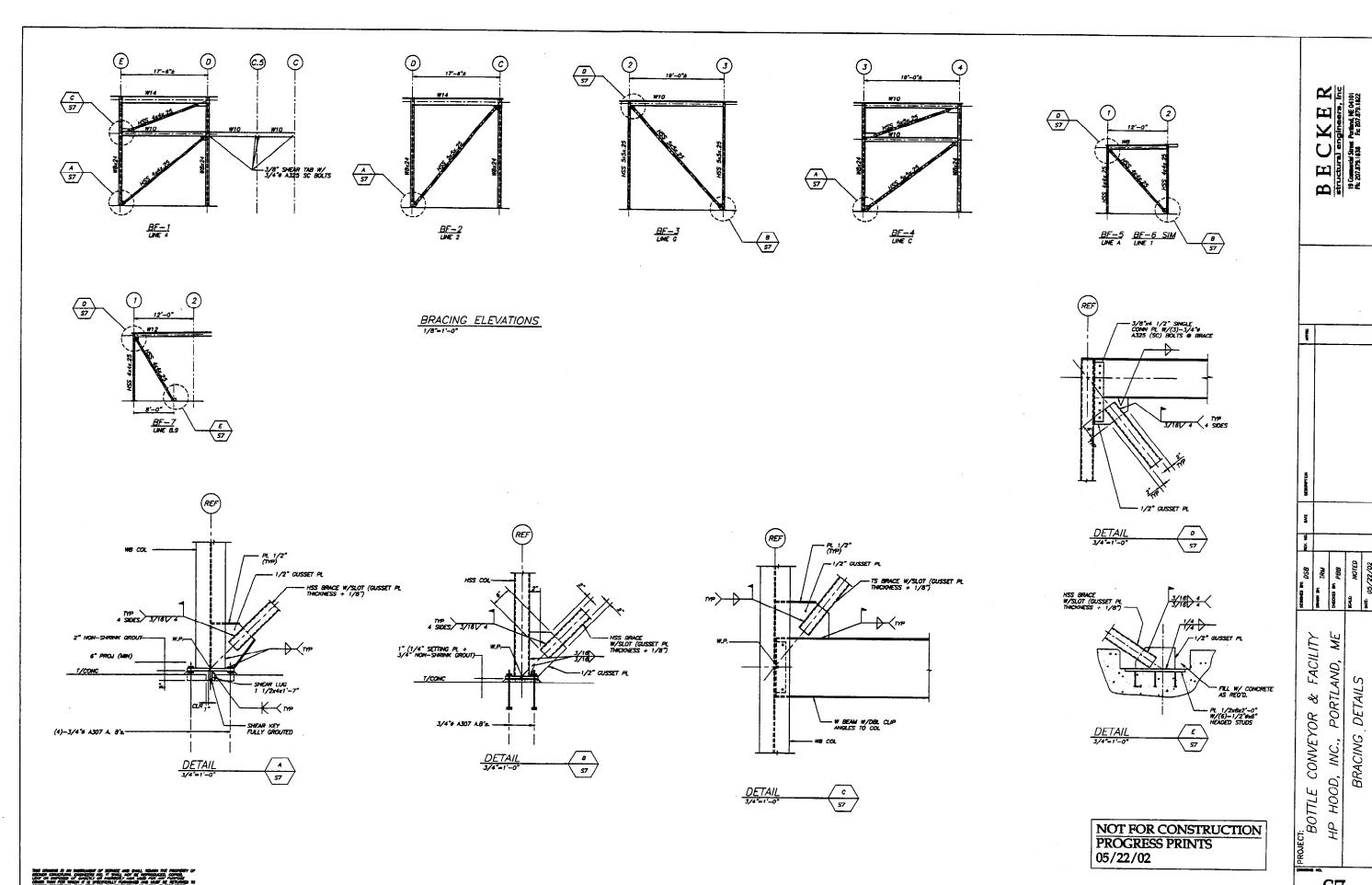
BUILDING SECTIONS





BECKER structural engineers, inc. 19 Comment Steet Posted, 16 October 19 Comment Steet Posted, 16 Octo

CONVEYOR & FACILITY HP HOOD, INC., PORTLAND, ME STEEL SECTIONS & DETAILS



S7

