FOUNDATION PLAN (1 / S1)
SCALE: 1/4"=1'-0"

FRAMING PLAN (2 / S1)
SCALE: 1/4"=1'-0"

SONO TUBE SECTION (3 / S1)
SCALE: 1/2"=1'-0"

BASE PLATE 1 (BP1) (4 / S1)
SCALE: 3/4"=1'-0"

BASE PLATE 2 (BP2) (5 / S1)
SCALE: 3/4"=1'-0"

PIER & BASE PLATE SCHEDULE

Ftg. Mark	Pier Size W D	Pier Reinf.	Plate Mark	Plate Size W D	Plate Reinf.
P1	18"øx4'-0" SONO TUBE	4-#5's w/ #3 TIES @ 10" O.C.	BP1	1'-0"x0'-6"	(3) 3/4" STUDS 4" LONG
P2	24"øx4'-0" SONO TUBE	4-#5's w/ #3 TIES @ 10" O.C.	BP2	1'-0"x1'-0"	(4) 3/4" STUDS 4" LONG
P3	1'-3"x1'-3"x4'-0"	4-#5's w/ #3 TIES @ 10" O.C.	BP3	1'-0"x0'-6"	(3) 3/4" STUDS 4" LONG

TYP. SECTION (6 / S1)
SCALE: 1/2"=1'-0"

PIER SECTION (7 / S1)
SCALE: 1/2"=1'-0"

BUILD SECTION (8 / S1)
SCALE: 1/2"=1'-0"

1
*NOTE: SECTION FROM PREVIOUS SHEET S3

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS; REPORT ANY DISCREPANCIES TO STRUCTURAL ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK.
2. CONSTRUCTION SHALL FOLLOW THE MAINE UNIFORM BUILDING ENERGY CODE (MUBEC).
3. STRUCTURAL SYSTEMS AND COMPONENTS DESIGN SHALL FOLLOW THE INTERNATIONAL RESIDENTIAL CODE, 2015 EDITION.
4. PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE.
5. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE BRACING OF STRUCTURAL MEMBERS, WALLS, AND NON STRUCTURAL ITEMS DURING CONSTRUCTION.
6. ALL STRUCTURAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED FOR SELF WEIGHT, SUPERIMPOSED DEAD LOADS, CONCENTRATED LOADS SHOWN ON PLANS, AND THE LIVE LOADS.
7. ALL REFERENCED STANDARDS REFER TO LATEST EDITION.

DESIGN LOADS

ROOF
DEAD LOAD: PER COMPONENTS USED (12 PSF)
COLLATERAL LOAD (MECH/ELEC): 0 PSF

SNOW LOAD: (BASED ON ASCE 7-05)
GROUND SNOW LOAD (Pg): 40 PSF
EXPOSURE FACTOR (Ce): 1.00
SNOW LOAD IMPORTANCE FACTOR (I): 1.00
ROOF THERMAL FACTOR – (Ct): 1.0

FLOOR LIVE LOADS:
FLOOR: 50 PSF. MAX.

WIND LOAD: (BASED ON ASCE 7-05)
BASIC WIND SPEED: 90 MPH
IMPORTANCE FACTOR (I): 1.0
EXPOSURE: B

FOUNDATION/CONCRETE NOTES:

1. REMOVE ALL UNSUITABLE SOILS BENEATH THE BUILDING AS RECOMMENDED BY THE ENGINEER OF RECORD.
2. ALL BUILDING FOOTINGS ARE TO BE FOUNDED ON UNDISTURBED NATURAL GROUND, CLEAN SOUND LEDGE OR COMPACTED STRUCTURAL FILL MATERIAL CAPABLE OF SAFELY SUPPORTING A SPECIFIED DESIGN BEARING PRESSURE OF 3,000 POUNDS PER SQUARE FOOT.
3. ALL FOUNDATION WORK SHALL BE CARRIED OUT UNDER THE DIRECTION OF THE ENGINEER OF RECORD. IF SOFT OR UNSUITABLE IN-SITU MATERIALS ARE ENCOUNTERED THE ENGINEER OF RECORD SHALL BE NOTIFIED AND CORRECTIVE ACTION SHALL BE TAKEN AS DIRECTED.
4. SOIL COMPACTION UNDER FOOTINGS SHALL TO 95% OF SOIL COMPACITY.
5. CENTER ALL FOOTINGS UNDER THEIR RESPECTIVE COLUMNS OR WALLS, UNLESS OTHERWISE SHOWN ON PLANS.
6. CONSTRUCT FOOTINGS AT LOWER ELEVATION THAN INDICATED ON DRAWINGS IF REQUIRED BY ENGINEER OF RECORD TO REACH FIRM UNDISTURBED SOIL.
7. STRUCTURAL CONCRETE SHALL CONFORM TO ACI 301, ACI 305 AND ACI 306.1. FOUNDATIONS SHALL HAVE 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS
8. STRUCTURAL CONCRETE REINFORCEMENT SHALL CONFORM TO ACI 301 AND CRSI 63, 65, AND MANUAL OF PRACTICE. REINFORCEMENT SHALL BE ASTM A615/A615M, 60 KSI YIELD GRADE; DEFORMED BILLET STEEL BARS, PLAIN FINISH
9. CONCRETE TESTING SHALL BE THE FOLLOWING, TAKE ONE SET OF 3 CYLINDERS FOR EVERY FIFTY CUBIC YARDS OF CONCRETE AND ONE SET OF THREE FOR ALL POURS LESS THAN FIFTY CUBIC YARDS (PER ASTM STANDARDS) (IF REQUIRED BY THE OWNER)

   ONE (1) SLUMP TEST: TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN.

   ONE (1) AIR CONTENT TEST: PERFORMED FOR EACH SET OF TEST CYLINDERS TAKEN.

FRAMING NOTES:

1. ALL ANCHOR BOLTS SHALL BE ASTM A307. ALL BOLT HOLES TO BE 1/16" LARGER THAN BOLT.
2. ALL MEMBERS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
3. FRAMING: STRESS GROUP D, SPRUCE-PINE-FIR (S/P/F) SPECIES, GRADE NO. 2 OR BETTER, 19 PERCENT MAXIMUM MOISTURE CONTENT

PLYWOOD FRAMING NOTES:

1. PLYWOOD SHALL BE IDENTIFIED WITH GRADE-TRADEMARK OF APA AND MEET REQUIREMENTS OF PRODUCT STANDARD PS 1.

STRUCTURAL STEEL NOTES

1. ALL STEEL MEMBER CONNECTION DETAILS SHALL BE DESIGNED FOR THE MAXIMUM ALLOWABLE MEMBER SHEAR, UNLESS NOTED OTHERWISE.
2. ALL WORK SHALL BE DONE IN ACCORDANCE w/ AISC "MANUAL OF STEELCONSTRUCTION" – THIRTEENTH EDITION.
3. ALL WELDING SHALL BE IN ACCORDANCE w/ THE LATEST EDITION OF THE "STRUCTURAL WELDING CODE".
4. SHOP PAINT ALL NON-GALVANIZED STEEL WITH RED OXIDE PRIMER, MINIMUM DRY FILM THICKNESS 2 MILS
5. ALL STEEL COMPONENTS SHALL BE OF THE FOLLOWING TYPES.
   A. STRUCTURAL STEEL SHAPES: ASTM A992
   B. PLATES, AND BARS: ASTM A36
   C. COLD-FORMED STEEL TUBING: ASTM A500, GRADE B.
   D. ANCHOR BOLTS SHALL BE: ASTM A307, GRADE A, REGULAR LOW-CARBON STEEL BOLTS AND NUTS; PROVIDE HEXAGONAL HEADS AND NUTS FOR ALL CONNECTIONS.
6. SHOP FABRICATE LARGEST COMPONENTS POSSIBLE.

METAL FABRICATION

1. WELDING MATERIALS: AWS D1.1.
2. SHOP AND TOUCH-UP PRIMER: SSPC 15, TYPE 1, RED OXIDE.

Reviewed for Code Compliance
Department of Economic
and Community Development
05/03/18
Date:

REVISIONS

NO.	DATE	DESCRIPTION	DRAWN	APPD.
1	04/23/18	UPDATED SECTION & ELEVATION VIEWS	DPW	KGE
2	04/27/18	DETAIL WALL CHANGES	DPW	KGE

PROJECT NAME:
RORY BUILDING ADDITION
ISO CUBE CONTAINERS
PORTLAND MAINE

SHEET NAME:
STRUCTURAL
PLANS, NOTES, DETAILS, SECTIONS

PROJECT NO. 17285
DRAWING NO. 17285S
FIELDBOOK:
SCALE:
DATE ISSUED: MAR. 02, 2018

DESIGNED: NEH
DRAWN: RGM
CHECKED: KGE
APPROVED: KGE
PLAN DATE: MAR. 02, 2018
CLIENT & OWNER: SNAPSPACE
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BREWER, MAINE 04412

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PROFESSIONAL ENGINEER

DRAWINGS NOT SEALED ARE FOR PLANNING PURPOSES ONLY AND ARE NOT INTENDED FOR PERMITTING, BIDDING OR CONSTRUCTION

SHEET 1 OF 2

S1

Apr 27, 2018 - 8:43am
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