- 2. EXISTING DIMENSIONS AND CONDITIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION OR FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.
- 3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DEVIATIONS OR CHANGES ARE REQUIRED TO THE CONTRACT DOCUMENTS OR APPROVED SHOP DRAWINGS DUE TO INTERFERENCES, FABRICATION ERRORS, OR OTHER CAUSES
- 4. THE STRUCTURE IS SELF—SUPPORTING AND STABLE AFTER THE ENTIRE BUILDING IS COMPLETELY CONSTRUCTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCING DURING CONSTRUCTION AND ERECTION TO PROVIDE AND ENSURE LOCAL AND OVERALL STABILITY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION AND ERECTION. THE CONTRACTOR SHALL RETAIN A LICENSED STRUCTURAL ENGINEER TO DESIGN TEMPORARY BRACING/SHORING AND DETERMINE WHERE THE TEMPORARY BRACING/SHORING IS NEEDED.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION PROCEDURES, SEQUENCING AND FOR COMPLYING WITH ALL APPLICABLE SAFETY REGULATIONS DURING THE WORK.
- 6. ONE ELECTRONIC COPY OR TWO SETS OF HARD COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER. ONE HARD COPY WILL BE RETURNED TO THE CONTRACTOR AND ONE HARD COPY WILL BE RETAINED BY THE ENGINEER.
- REFERENCE THE PROJECT SPECIFICATIONS FOR MATERIAL, WORKMANSHIP AND ADDITIONAL INFORMATION NOT COVERED IN THESE NOTES (WHERE APPLICABLE)

### DESIGN CRITERIA:

FOUNDATION NOTES:

- 1. BUILDING CODES:
  INTERNATIONAL BUILDING CODE (IC), 2009 EDITION
  ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES
  MAINE UNIFORM BUILDING AND ENERGY CODE
- 2. LIVE LOADS:
  FIRST FLOOR LIVING AREAS = 40 PSF
  SECOND FLOOR SLEEPING AREAS = 30 PSF
- 3. SNOW LOADS:
  GROUND SNOW LOAD (Pg) = 60 PSF
  SNOW EXPOSURE FACTOR (Ce) = 1.0
  SNOW LOAD IMPORTANCE FACTOR (Is) = 1.0
  THERMAL FACTOR (Ct) = 1.1

FLAT ROOF SNOW LOAD (Pf) = 46.2 PSF + DRIFT

WIND LOADS:

BASIC WIND SPEED = 100 MPH

IMPORTANCE FACTOR (Iw) = 1.0

WIND EXPOSURE B

MAIN WINDFORCE-RESISTING SYSTEM (INCLUDES WINDWARD + LEEWARD) = 18 PSF

COMPONENTS & CLADDING - PER ASCE 7-05

FOUNDATIONS HAVE BEEN DESIGNED USING A PRESUMED ALLOWABLE BEARING PRESSURE PER TABLE 1806.2

AS THE ALLOWABLE LOADS USED IN DESIGN WILL NEED TO BE VERIFIED BY A GEOTECHNICAL ENGINEER. CASCO BAY ENGINEERING RECOMMENDS PROCURING A GEOTECHNICAL ENGINEER TO VERIFY EXISTING SOIL CONDITIONS.

OF THE INTERNATIONAL BUILDING CODE BASED ON TYPICAL SOILS FOUND IN THIS AREA. IF CLAY, MUD, ORGANIC SILT, PEAT OR UNPREPARED FILL IS FOUND DURING CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY,

4. EXCAVATION, BACKFILL, COMPACTION, GRADATION REQUIREMENTS, FOUNDATION DRAINAGE AND PERMANENT

CONCRETE SLABS ON GRADE SHALL BE CONSTRUCTED ON A MINIMUM 12" THICK LAYER OF PROPERLY

6. FOUNDATIONS SHALL BEAR ON UNDISTURBED NATIVE SOIL, UNLESS NOTED OTHERWISE. THE CONTRACTOR

SHALL NOTIFY THE GEOTECHNICAL AND STRUCTURAL ENGINEER IF ANY UNSUITABLE SOILS ARE ENCOUNTERED

FOUNDATION WALLS AND SLAB-ON-GRADES SHALL REACH THEIR FULL 28 DAY COMPRESSIVE STRENGTH PRIOR

TO BACKFILLING. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING/BRACING FOR WALLS WHEN BACKFILL IS PLACED PRIOR TO CONCRETE ACHIEVING ITS FULL 28 DAY STRENGTH. CONTRACTOR SHALL

PROVIDE TEMPORARY SHORING/BRACING FOR WALLS AND OTHER STRUCTURAL ELEMENTS PRIOR TO

PROTECT FOUNDATIONS FROM FROST AND KEEP BOTTOM OF TRENCH DRY DURING CONSTRUCTION. IF

DEWATERED DURING CONSTRUCTION. SURFACE WATER SHALL BE DIVERTED AWAY FROM EXCAVATIONS.

AND CONSTRUCTION. CONTRACTOR SHALL SLOPE EXCAVATIONS TO ACHIEVE SOIL STABILITY.

GROUNDWATER IS ENCOUNTERED NEAR OR ABOVE THE BASE OF THE FOOTINGS, EXCAVATIONS SHALL BE

9. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ADJACENT STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE

FOR THE SHORING, BRACING AND UNDERPINNING OF EXISTING STRUCTURES DURING EXCAVATION, BACKFILLING,

3. MINIMUM FROST DEPTH COVER = 4'-6" FOR EXTERIOR FOOTINGS BELOW FINAL EXTERIOR GRADE.

COMPACTED STRUCTURAL FILL, UNLESS OTHERWISE DIRECTED BY A GEOTECHNICAL ENGINEER.

DEWATERING REQUIREMENTS SHALL BE PROVIDED BY A GEOTECHNICAL ENGINEER.

2. ALLOWABLE SOIL BEARING CAPACITY USED IN DESIGN = 2,000 PSF

INSTALLATION OF PERMANENT BRACING/FLOOR/STRUCTURE.

PRIOR TO PLACING FOUNDATIONS.

#### **CONCRETE NOTES:**

- 1. ALL WORK SHALL CONFORM TO IC 2009 REFERENCED EDITIONS OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301).
- 2. REQUIRED CONCRETE PARAMETERS ARE AS FOLLOWS:

	LOCATION	MAX W/C RATIO	f'c	AIR-ENTRAINMENT
-	INT. WALLS/ELEV. SLABS	.52	3,000 PSI	2% ± 1½%
	FOUNDATIONS, FOOTINGS, & FOUNDATION WALLS	.45	4,500 PSI	6% ± 1½%
	INT. SLAB-ON-GRADE	.45	4,500 PSI	2% ± 1½%
	EXT. SLAB-ON-GRADE	.45	4,500 PSI	6% ± 1½%

WHERE: W/C = WATER TO CEMENT RATIO AND f'c = COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS

USE PORTLAND CEMENT TYPE II, IN CONFORMANCE WITH ASTM 150 AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C 260 ADMIXTURES SHALL CONFORM TO ASTM C 494 FLY ASH USED AS ADMIXTURES SHALL CONFORM TO ASTM C 618

- 3. MAXIMUM AGGREGATE SIZE SHALL BE 34", IN CONFORMANCE WITH ASTM C33.
- 4. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE IS NOT PERMITTED.
- 5. MAXIMUM SLUMP AFTER THE ADDITION OF A WATER-REDUCING ADMIXTURE IS 6 INCHES.
- 6. CONTRACTOR SHALL NOT PLACE CONCRETE ON FROZEN GROUND OR IN WATER. ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING NEAR—FREEZING OR FREEZING WEATHER. REFERENCE ACI 306, AS NOTED ABOVE, FOR RECOMMENDATIONS FOR COLD WEATHER CONCRETING.
- 7. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL NOT EXCEED A SPACING OF 40 FEET, U.N.O.
- 3. ANCHOR BOLTS SHALL BE HEADED RODS AND CONFORM TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, U.N.O. ON DRAWINGS. PROVIDE GALVANIZED ANCHOR BOLTS WHERE IN CONTACT WITH PRESSURE TREATED LUMBER.
- 9. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS.
- 10. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185 AND BE PROVIDED IN FLAT SHEETS. PROVIDE
- ADEQUATE SUPPORT FOR WWF TO ENSURE PROPER LOCATION WITHIN SLAB DURING CONCRETE PLACEMENT.

  11. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:

  A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH

  B. FORMED CONCRETE IN CONTACT WITH EARTH OR EXPOSED TO WEATHER

  C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER IN SLABS & WALLS

  1½ INCHES
- 12. WELDING OF REINFORCEMENT IS NOT PERMITTED.

STRUCTURAL STEEL NOTES:

ROUND HSS

STEEL PIPE

STRENGTH OF 70 KSI.

GROUTED PRIOR TO COLUMN ERECTION.

WIDE FLANGE SHAPES AND TEES

ANGLES, PLATES, CHANNELS

SQUARE/RECTANGULAR HSS

- 13. PROVIDE NON-SHRINK GROUT BENEATH LEVELING PLATES & BEARING PLATES w/ MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS.
- 14. PROVIDE CONTINUOUS REINFORCEMENT AT ALL CORNERS AND INTERSECTIONS, SEE TYPICAL FOUNDATION WALL DETAILS ON FOUNDATION DETAILS SHEET.
- 15. REINFORCING BARS AND ALL EMBEDDED ITEMS, INCLUDING ANCHOR BOLTS, MUST BE ACCURATELY PLACED AND ADEQUATELY SECURED <u>BEFORE</u> CONCRETE IS PLACED. "WET SETTING" OF COLUMN ANCHOR BOLTS INTO CONCRETE IS STRICTLY PROHIBITED.

1. STRUCTURAL STEEL WORK SHALL CONFORM TO IC 2009 REFERENCED EDITIONS OF AISC "SPECIFICATION FOR THE

DESIGN FABRICATIONS, AND ERECTION OF STRUCTURAL STEEL" AND THE "CODE OF STANDARD PRACTICE"

ASTM A992

3. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO COMMENCING

FIELD CONNECTIONS SHALL UTILIZE MINIMUM 3/4" DIAMETER A325 HIGH STRENGTH BOLTS, U.N.O. BOLTED

CONNECTIONS SHALL BE SLIP CRITICAL AT ALL MOMENT FRAMES, BRACED FRAMES, AND AT ADDITIONAL LOCATIONS INDICATED "SC" IN THE DRAWINGS. SLIP CRITICAL CONNECTIONS SHALL UTILIZE LOAD INDICATOR

6. WELDING SHALL CONFORM TO AWS D1.1. USE LOW-HYDROGEN SMAW ELECTRODES WITH MINIMUM TENSILE

8. ALL STRUCTURAL STEEL NOT EXPOSED TO WEATHER SHALL RECEIVE ONE COAT OF STANDARD SHOP PRIMER,

5. CONTRACTOR IS RESPONSIBLE FOR DESIGN OF CONNECTIONS NOT ALREADY DETAILED ON STRUCTURAL DRAWINGS.

CONTRACTOR SHALL SUBMIT DESIGN STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE

PROVIDE ¼" LEVELING PLATES UNDER ALL COLUMN BASE PLATES, U.N.O. LEVELING PLATES SHALL BE SET AND

WASHERS OR TENSION CONTROL BOLTS. USE A490 BOLTS WHERE INDICATED ON DRAWINGS.

ASTM A36, Fy=36 KSI (U.N.O.)

ASTM A500, GRADE B, Fy=46 KSI

ASTM A500, GRADE B, Fy=42 KSI

ASTM A53, TYPE E OR S, GRADE B, Fy=35 KSI

2. STRUCTURAL STEEL MEMBERS SHALL BE IN CONFORMANCE WITH THE FOLLOWING:

PROJECT IS LOCATED PRIOR TO COMMENCING FABRICATION.

9. SEE DRAWINGS AND CONCRETE NOTES FOR ANCHOR BOLT INFORMATION.

16. UNLESS NOTED ON DRAWINGS, FOLLOW ACI STANDARDS FOR LAP SPLICE LENGTHS OF REINFORCING BARS.

REBAR	LAF	SPL	ICE	TAB	LE		
BAR SIZE	#3	#4	<b>#</b> 5	#6	#7	#8	#9
3000 PSI CONCRETE	18"	24"	30"	36"	48"	56"	64"
4500 PSI CONCRETE	16"	20"	24"	30"	40"	48"	54"

## WOOD NOTES:

MINIMUM ALLOWABLE STRESSES:

- 1. ALL TIMBER FRAMING SHALL BE IN ACCORDANCE WITH IC 2009 REFERENCED EDITIONS OF THE AITC TIMBER CONSTRUCTION MANUAL AND AF&PA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS).
- 2. ALL FRAMING SHALL BE SPRUCE-PINE-FIR, No.2 OR BETTER U.N.O. AND HAVE A MAXIMUM MOISTURE CONTENT
- 3. ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED
- (PT) SOUTHERN YELLOW PINE.4. WHERE "LVL" IS NOTED ON DRAWINGS, PROVIDE LAMINATED VENEER LUMBER, WHICH HAS THE FOLLOWING
- 5. WHERE "PSL" IS NOTED ON DRAWINGS, PROVIDE PARALLAM STRAND LUMBER, WHICH HAS THE FOLLOWING MINIMUM ALLOWABLE STRESSES:

- 6. ALL ENGINEERED LUMBER THAT IS EXPOSED TO WEATHER SHALL BE WOLMANIZED.
- 7. ALL FLOOR SHEATHING SHALL BE ¾" TONGUE AND GROOVE, GLUED AND NAILED TO FLOOR FRAMING WITH 8d RINK SHANK NAILS AT 6" o.c. AT SUPPORTED PANEL EDGES, 12" o.c. AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE ON DRAWINGS.
- 8. ALL ROOF SHEATHING (5/8") AND WALL SHEATHING (1/2") SHALL BE APA PERFORMANCE—RATED. ATTACH TO SUPPORTED PANEL EDGES WITH 8d NAILS AT 6" o.c. AND AT INTERMEDIATE SUPPORTS WITH 8d NAILS AT 12" o.c. U.N.O. SEE DRAWINGS FOR MORE STRINGENT NAILING REQUIREMENTS AT WOOD SHEAR WALLS.
- 9. SHEATHING SHALL BE ORIENTED WITH LONG DIMENSION PERPENDICULAR TO THE SUPPORTS AND BE CONTINUOUS OVER TWO OR MORE SUPPORTS. STAGGER ALL JOINTS & PROVIDE ADEQUATE JOINT SPACING (1/8" TYP) AS RECOMMENDED BY MANUFACTURER.
- 10. PROVIDE FULL DEPTH BLOCKING AT ENDS AND INTERIOR SUPPORTS OF ALL JOISTS AND RAFTERS WHERE JOISTS AND RAFTERS FRAME OVER SUPPORTS. PROVIDE 1x3 DIAGONAL BRIDGING OR FULL DEPTH SOLID BLOCKING FOR EACH 8'-0" OF SPAN FOR ALL JOISTS AND RAFTERS.
- 11. WHERE BEAMS ARE LABELED ON PLAN, DO NOT SPLICE BEAM NOR ANY PLY OF BEAM BETWEEN SUPPORTS.
- 12. ALL CONNECTION HARDWARE SHALL BE BY SIMPSON STONG—TIE (OR APPROVED EQUIVALENT) AND SHALL BE HOP—DIPPED GALVANIZED. HARDWARE IN CONTACT WITH PRESSURE TREATED (PT) LUMBER SHALL BE GALVANIZED G185 (ZMAX). REFER TO MANUFACTURERS LITERATURE FOR PROPER INSTALLATION GUIDELINES.
- 13. FASTENERS USED IN CONTACT WITH PRESSURE TREATED (PT) LUMBER SHALL BE HOT-DIPPED GALVANIZED, STAINLESS STEEL, OR OTHER FINISH APPROVED BY ENGINEER.
- 14. ALIGN COLUMNS SUCH THAT COLUMNS BEAR CONTINUOUSLY TO FOUNDATION SUPPORT. INSTALL ADDITIONAL SOLID BLOCKING WITHIN FLOOR PACKAGE TO PROVIDE CONTINUITY OF LOAD PATH.
- 15. PROVIDE HORIZONTAL BLOCKING FOR ALL LOAD BEARING WALLS AT 4'-0" O.C. VERTICAL, MAXIMUM.
- 16. SUBMIT SHOP DRAWINGS FOR ALL PREFABRICATED WOOD JOISTS AND WALL PANELS TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

#### MASONRY NOTES:

- 1. ALL MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO IC 2009 REFERENCED EDITIONS OF THE BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES (ACI 530 AND ACI 530.1)
- 2. CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 GRADE N, TYPE 1 STANDARD WEIGHT WITH MINIMUM PRISM STRENGTH (f'm) = 1,500 PSI
- 3. CMU SHALL BE STANDARD UNITS WITH NOMINAL FACE DIMENSIONS (LENGTH = 16 INCHES, HEIGHT = 8 INCHES, WIDTH AS INDICATED)
- 4. MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S. PLACE MASONRY WHILE MORTAR IS SOFT AND PLASTIC. TYPE N MORTAR MAY BE USED FOR ABOVE GRADE MASONRY VENEER OR INTERIOR NON-LOAD BEARING APPLICATIONS.
- 5. GROUT SHALL CONFORM WITH ASTM C476 WITH MINIMUM COMPRESSIVE STRENGTH = 3,000 PSI
- 6. VERTICAL REINFORCEMENT, BOND BEAM REINFORCEMENT AND REINFORCEMENT IN LINTELS SHALL CONFORM TO ASTM A615, GRADE 60 DEFORMED BARS.
- 7. STANDARD LAP LENGTH FOR GRADE 60 MASONRY REINFORCEMENT SHALL BE 48 BAR DIAMETERS OR AS SHOWN ON DRAWINGS, WHICHEVER IS GREATER. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCEMENT.
- 8. HORIZONTAL REINFORCEMENT SHALL BE LADDER TYPE, STANDARD CLASS, GALVANIZED WITH 9 GAGE SIDE RODS AND 9 GAGE CROSS TIES. BEGIN HORIZONTAL REINFORCEMENT AT TOP OF FIRST COURSE AND EVERY OTHER COURSE, U.N.O. LAP HORIZONTAL REINFORCEMENT 6 INCHES, MIN.
- 9. ALL UNITS SHALL BE LAID IN RUNNING BOND, UNLESS NOTED OTHERWISE. PROVIDE FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACES. EXPOSED JOINTS SHALL BE TOOLED CONCAVE, UNEXPOSED JOINTS SHALL BE STRUCK FLUSH. PROVIDE CORNER BLOCKS AND END BLOCKS TO FINISH ALL
- 10. PROVIDE VERTICAL CONTROL JOINTS IN WALLS AT A MAXIMUM SPACING OF 24'-0" AND AT APPROXIMATELY 1/2 WALL HEIGHT FROM WALL INTERSECTIONS.
- 11. PROVIDE LINTELS AT WALL PENETRATIONS AS SHOWN ON DRAWINGS. USE LINTEL-TYPE BLOCKS AND PROVIDE MINIMUM 8" OF BEARING AT EACH END OF LINTEL U.N.O.
- 12. FIELD PENETRATIONS THROUGH CMU WALLS SHALL NOT BE MADE THROUGH BOND BEAMS, LINTELS OR GROUTED CELLS.
- 13. SECURE ALL CMU WALL SUPPORTED FIXTURES, EQUIPMENT, ETC. TO CMU WALL PER STRUCTURAL DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS. DO NOT USE EXPANSION ANCHORS.

## ABBREVIATION:

90 DEGREE CORNERS AND OPENINGS.

AB ABV ADDL ARCH &	ANCHOR BOLT ABOVE ADDITIONAL ARCHITECT AND	L LL LB LF LLH LLV	ANGLE DOUBLE ANGLE POUND LINEAR FOOT LONG LEG HORIZONTAL LONG LEG VERTICAL
B/FTG, BOF BLDG BM BOT BRG BTWN	BOTTOM OF FOOTING BUILDING BEAM BOTTOM BEARING BETWEEN	MAX MECH MFR MIN MISC	MAXIMUM MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS
C CANT CIP CJ CL CLR CMU CNJ COL CONC CONT	STRUCTURAL STEEL CHANNEL CANTILEVER CAST—IN—PLACE CONCRETE CONTROL JOINT CENTERLINE CLEAR CONCRETE MASONRY UNIT CONSTRUCTION JOINT COLUMN CONCRETE CONNECTION CONTINUOUS	NF NO NS NTS  OC OF OPNG OPP  P PL PP	NEAR FACE NUMBER NEAR SIDE NOT TO SCALE  ON CENTER OUTSIDE FACE OPENING OPPOSITE  PIER DESIGNATION PLATE PARTIAL PENETRATION WELD
CONTR CP CY DIA DIM	CONTRACTOR COMPLETE PENETRATION WELD CUBIC YARD  DIAMETER DIMENSION	PREFAB PSF PSI REINF	PREFABRICATED POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH REINFORCING STEEL
DISCONT DWG	DISCONTINUOUS DRAWING	REQ, REQD RD	REQUIRED ROOF DRAIN
(E), EX, EXIST EA EF EL, ELEV EQ EQUIP ES EW EXP EXT	EACH EACH FACE ELEVATION EQUAL EQUIPMENT EACH SIDE EACH WAY EXPANSION EXTERIOR	SC SECT SHEATH SIM SOG SPAC SPECS SS STD STIFF STL STR	SLIP CRITICAL SECTION SHEATHING SIMILAR SLAB-ON-GRADE SPACING SPECIFICATIONS STAINLESS STEEL STANDARD STIFFENER STEEL STRAIGHT
F FDN FF FLG FLR FT FTG	FOOTING DESIGNATION FOUNDATION FINISH FLOOR FLANGE FLOOR FOOT FOOTING FIELD VERIFY	T T&B TOC, T/CONC T/FTG, TOF TEMP	STRUCTURAL  TOP TOP AND BOTTOM TOP OF CONCRETE TOP OF FOOTING TEMPERATURE
G GALV	GAGE GALVANIZED	T/SHELF T/SLAB T/STL T/WALL	TOP OF SHELF TOP OF SLAB TOP OF STEEL TOP OF WALL
HOR, HORIZ HSS HT	HORIZONTAL HOLLOW STRUCTURAL SHAPE HEIGHT	TS TYP	STRUCTURAL TUBING TYPICAL
IF IN INFO	INSIDE FACE INCH INFORMATION	UNO VER, VERT VIF	UNLESS NOTED OTHERWISE  VERTICAL  VERIFY IN FIELD
JT	JOINT	W	STRUCTURAL STEEL WIDE FLANC
K KSI	KIP (1 KIP = 1,000 LBS) KIPS PER SQUARE INCH	w/ w/O WP WT WWF	WITH WITHOUT WORK POINT WEIGHT WELDED WIRE FABRIC

CASCO BAY ENGINEERING

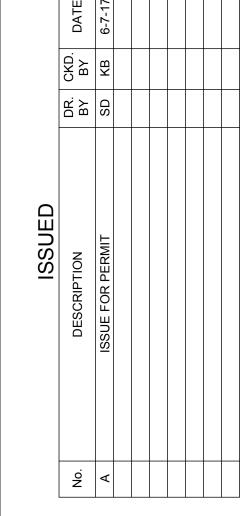
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# CLIENT: BARRETT MADE

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PRELIMINARY NOT FOR CONSTRUCTION

PORTLAND, MAINE



SHEET TITLE:

STRUCTURAL NOTES

DESIGNED:	KB
DRAWN:	SD
DATE:	06-07-17
PROJECT NUMBER:	17-089

S0.0