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GENERAL STRUCTURAL NOTES

GENERAL

- STRUCTURAL REPAIR WORK SHALL CONFORM TO THE REQUIREMENTS OF INTERNATIONAL BUILDING CODE 2003.
- EXAMINE ARCHITECTURAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
- VERIFY AND COORDINATE DIMENSIONS RELATED TO THIS PROJECT. VERIFY ALL DIMENSIONS FOR WORK IN PLACE BEFORE PROCEEDING WITH NEW WORK.
- DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE SHOWN FOR THE MOST NEARLY SIMILAR CONDITION AS DETERMINED BY THE ENGINEER.
- STRICTLY FOLLOW ALL APPLICABLE SAFETY REGULATIONS, METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS ARE CONTRACTOR'S RESPONSIBILITY.
- ABBREVIATIONS:

ADD'L	ADDITIONAL	I.D.	INSIDE DIAMETER
ALT.	ALTERNATE	JT.	JOINT
&	AND	KSI	KIPS PER SQUARE INCH
L L's	ANGLE(S)	L.P.	LOW POINT
APPROX.	APPROXIMATELY	MAX.	MAXIMUM
ARCH.	ARCHITECTURAL	MECH.	MECHANICAL
Ø	AT	MIN.	MINIMUM
BRC.	BEARING	MISC.	MISCELLANEOUS
BET.	BETWEEN	N.I.C.	NOT IN CONTRACT
BOTT.	BOTTOM	N.T.S.	NOT TO SCALE
BLDG.	BUILDING	NO.	NUMBER
C.I.P.	CAST IN PLACE	O.C.	ON CENTER
C.I.	CAST IRON	OPNG.	OPENING
CTR.	CENTER	OPP.	OPPOSITE
CL	CENTER LINE	PL. PL's	PLATE(S)
C	CHANNEL	RAD.	RADIUS
CANT.	CANTILEVER	REINF.	REINFORCEMENT
CLR.	CLEAR	SCHED.	SCHEDULE
CMU	CONCRETE MASONRY UNIT	SHT.	SHEET
COL.	COLUMN	SH.	SIMILAR
CONN.	CONNECTION	SP.	SPACES
CONT.	CONTINUOUS	SO.	SQUARE
CONST.	CONSTRUCTION	SPECS.	SPECIFICATIONS
DIA.	DIAMETER	S.S.	STAINLESS STEEL
DIM.	DIMENSION	STD.	STANDARD
DWL., DWL's	DOWEL(S)	STA.	STATION
DWG.	DRAWING	STIFF.	STIFFENER
EA.	EACH	STIR.	STIRRUPS
E.F.	EACH FACE	STRUCT.	STRUCTURAL
EL.	ELEVATION	SUPP.	SUPPORT
EMBED.	EMBEDMENT, EMBEDDED	SYMM.	SYMMETRICAL
EOS	EDGE OF SLAB	THK.	THICK(NESS)
EQ.	EQUAL	T.O.S.	TOP OF STEEL
E.W.	EACH WAY	T.O.C.	TOP OF CONCRETE
EXIST.	EXISTING	T&B	TOP AND BOTTOM
EXP.	EXPANSION	TYP.	TYPICAL
F.S.	FAR SIDE	U.N.O.	UNLESS NOTED OTHERWISE
FLG.	FLANGE	V.I.F.	VERIFY IN FIELD
FIN. FL.	FINISH FLOOR	W.W.F.	WELDED WIRE FABRIC
FDN.	FOUNDATION	W/	WITH
FTG.	FOOTING	w/o	WITHOUT
GALV.	GALVANIZED	W.P.	WORKING POINT
GA.	GAUGE	WF	WIDE FLANGE
H.P.	HIGH POINT		
H.R.	HANDRAIL		
H.S.	HIGH STRENGTH		
HORIZ.	HORIZONTAL		

DEMOLITION

- THE WORK OF THIS CONTRACT INCLUDES DEMOLITION AND REMOVAL OF THE EXISTING STRUCTURE TO THE WEST OF COLUMN LINE 16.
- ALL EXISTING MATERIAL REMOVED SHALL BE LEGALLY DISPOSED OFF THE PROPERTY, AT THE CONTRACTOR'S EXPENSE, IN COMPLIANCE WITH ALL APPLICABLE STATE CODES AND REGULATIONS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING ANY WORK. THE CONTRACT DRAWINGS MAY NOT REVEAL EXACT DIMENSIONS AND LOCATIONS OF EXISTING STRUCTURES, FOUNDATIONS, EQUIPMENT, UNDERGROUND UTILITIES, ETC. NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONDITIONS OR DIMENSIONS THAT VARY FROM THOSE SHOWN ON THE DRAWINGS.
- PROTECT FROM DAMAGE, FOR THE DURATION OF THIS WORK, ALL EXISTING STRUCTURES, SIDEWALKS, PAVEMENT, UTILITIES, ETC. THAT ARE NOT WITHIN THE REMOVAL AREA LIMIT OF WORK. THE CONTRACTOR SHALL REPAIR ANY DAMAGE WITH NO ADDITIONAL COST TO THE PROJECT.
- STEEL SURFACES EXPOSED BY DEMOLITION SHALL BE FREE OF RUST, OIL SOLVENT, GREASE, DIRT, DUST, BITUMEN, LOOSE PARTICLES, AND OTHER FOREIGN MATTER.
- WHERE NEW CONCRETE IS TO BE PLACED AGAINST EXISTING SURFACES, THOROUGHLY CLEAN EXISTING SURFACES BY GRIT BLASTING OR OTHER MECHANICAL ABRASION METHODS AS APPROVED BY THE ENGINEER.

CONCRETE

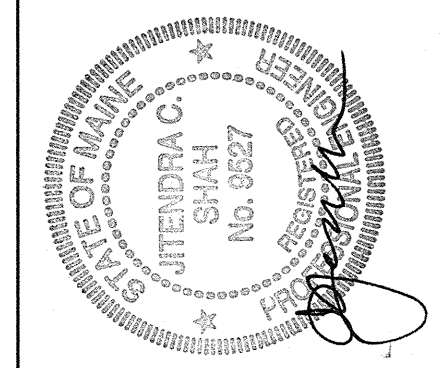
- CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-99), AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301-99).
- UNLESS OTHERWISE INDICATED ALL CONCRETE SHALL BE NORMAL WEIGHT AND SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- USE AIR-ENTRAINED CONCRETE. VERIFY AIR CONTENT BEFORE PLACEMENT OF ALL CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- BAR PLACING SHALL CONFORM TO CONCRETE REINFORCING STEEL INSTITUTE'S RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
- REINFORCING BARS SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).
- UNLESS INDICATED OTHERWISE ON THE DRAWINGS, REBAR SPLICES SHALL BE STAGGERED WITH NOT MORE THAN 50 PERCENT OF THE REBARS SPLICED WITHIN A REQUIRED LAP LENGTH. LOCATIONS OF ALL SPLICES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- WELDED WIRE FABRIC SHALL BE LAPPED 2 MESHES AT SIDES AND ENDS.
- ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE A 3/4"x45 DEGREE CHAMFER, U.N.O.
- PROVIDE THE NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION. MINIMUM REQUIREMENTS SHALL BE: HIGH CHAIRS, 4'-0" o.c. WITH CONTINUOUS #5 SUPPORT BAR; SLAB BOLSTERS, CONTINUOUS AND 3'-6" o.c.; BEAM BOLSTERS, 5'-0" o.c.

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC 1989); "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS & BRIDGES" (AISC 1992); AND "STRUCTURAL WELDING CODE - STEEL" (AWS D1. 1-94).
- STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH "DETAILING FOR STEEL CONSTRUCTION" (AISC).
- WELDED CONNECTIONS SHALL BE MADE BY APPROVED CERTIFIED WELDERS USING FILLER METAL CONFORMING TO E70X-EXXX WITH LOW HYDROGEN.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
 (A) ROLLED W SHAPES.....ASTM A992, GRADE 50 (Fy=50 KSI)
 (B) PLATES, ANGLES, CHANNELS.....ASTM A36 (Fy=36 KSI)

BID ISSUE - NOVEMBER 19, 2004

MARK	DATE	DESCRIPTION	BY	APP'D



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 Architects / Engineers / Planners
 400 Commercial Street
 Portland, Maine 04101

PARTIAL DEMOLITION
 OF INTERNATIONAL MARINE TERMINAL
 COMMERCIAL STREET - PORTLAND, MAINE

STRUCTURAL

GENERAL NOTES

PROJECT NO.: 17181
DESIGNED BY: S.P.B.
DRAWN BY: K.C.
CHK'D BY:
DATE: 11/19/04
SCALE: AS NOTED
SHEET NO.:
S1
SHEET 3 OF 8