

## STRUCTURAL STEEL AND METAL FABRICATIONS

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:  

W - SHAPES	A992
MISCELLANEOUS SHAPES INCLUDING ANGLES, CHANNELS, PLATES, ETC.	A36
SQUARE OR RECTANGULAR STEEL TUBING	A500, GRADE B
STEEL PIPE	A501 OR A53, GRADE B
- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, CURRENT EDITION, AND CURRENT OSHA STANDARDS.
- BOLTS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE:  

UNLESS SHOWN OTHERWISE	A325N
SLIP CRITICAL	A325SC
PRETENSIONED	A325PT
MACHINE BOLTS (MB) AND ANCHOR BOLTS (AB)	
STAINLESS STEEL	A193
GALVANIZED STEEL	A153
- ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT.
- NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

## STEEL DECK

- FOR DECK SIZE, GAGE, AND FASTENING REQUIREMENTS, SEE FRAMING PLANS.
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL".
- DECKING SHALL HAVE A MINIMUM 1 1/2 INCHES BEARING ON ALL SUPPORTS.
- DECKING SHALL BE CONTINUOUS OVER THREE SPANS MINIMUM, EXCEPT WHERE SHOWN OTHERWISE.
- LIVE LOAD SHALL INCLUDE ALL SNOW DRIFT LOADS ADJACENT TO PARAPETS AND EQUIPMENT.
- FASTEN DECK PER PLAN NOTES. SUBMIT ICBO REPORT FOR DECKING SYSTEM TO VERIFY THE FOLLOWING MINIMUM SHEAR CAPACITY REQUIREMENTS. INCREASE WELDING AS REQUIRED TO ACHIEVE THESE CAPACITIES.

AREA	SHEAR CAPACITY
HIGH ROOF	275 LB/FT
LOW ROOF	510LB/FT

- LOCATE OPENINGS FOR EQUIPMENT PER OTHER DISCIPLINE DRAWINGS.
- REINFORCE DECK FOR LARGE OPENINGS PER DETAIL 5321. REINFORCE SMALL OPENINGS AS SPECIFIED.

## WELDING

- WELDS SHALL CONFORM TO AWS D1.1 LATEST EDITION AS SPECIFIED.
- REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1, 5.26
- USE INTERMITTENT WELDS AT FIELD WELDS OF EMBED PLATES AND ANGLES TO AVOID SPALLING OR CRACKING OF THE EXISTING CONCRETE.
- BUTT JOINT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED OTHERWISE.

## ABBREVIATIONS

AB	ANCHOR BOLT	FD	FLOOR DRAIN	RC	REINFORCED CONCRETE
AHR	ANCHOR	FDN	FOUNDATION	REINF	REINFORCE
AL	ALUMINUM	FG	FINISHED GRADE	RST	REINFORCING STEEL
ALTN	ALTERNATE	FS	FAR SIDE		
APVD	APPROVED	FTG	FOOTING		
BOT	BOTTOM	GA	GAGE	SIM	SIMILAR
BF	BOTTOM FACE	GALV	GALVANIZED (HOT DIP)	SPECS	SPECIFICATIONS
BM	BEAM	GVL	GRAVEL	SQ	SQUARE
BRG	BEARING	H.A.S.	HEADED ANCHOR STUD	SST	STAINLESS STEEL
C TO C	CENTER TO CENTER	HDR	HEADER	STD	STANDARD
CJ	CONSTRUCTION JOINT	HK	HOOK	STIF	STIFFENER
CL	CENTER LINE	HORIZ	HORIZONTAL	STL	STEEL
CLR	CLEARANCE, CLEAR	HPT	HIGH POINT	STR	STRAIGHT
CMU	CONCRETE MASONRY UNIT	HSA	HEADED STUD ANCHOR	STRUCT	STRUCTURE
COL	COLUMN	I.F.	INSIDE FACE	SYMM	SYMMETRICAL
CONC	CONCRETE	LLV	LONG LEG VERTICAL	T&B	TOP AND BOTTOM
CONN	CONNECTION	LNTL	LINTEL	TOC	TOP OF CONCRETE, TOP OF CURB
CONT	CONTINUOUS	LONG.	LONGITUDINAL	TOS	TOP OF STEEL
CTR	CENTER	LPT	LOW POINT	TF	TOP FACE
CTRD	CENTERED	MASY	MASONRY	THK	THICK
DBA	DEFORMED BAR ANCHOR	MAX	MAXIMUM	TRANSV	TRANSVERSE
DIA	DIAMETER	MB	MACHINE BOLT	TST	TOP OF STEEL
DIR	DIRECTION	MIN	MINIMUM	TW	TOP OF WALL
DWG	DRAWING	NIC	NOT IN CONTRACT	TYP	TYPICAL
DWL	DOWELS	NS	NEAR SIDE	UNO	UNLESS NOTED OTHERWISE
EA	EACH	NTS	NOT TO SCALE	VERT	VERTICAL
EF	EACH FACE	OC	ON CENTER	WS	WATERSTOP OR WATER SURFACE
EL	ELEVATION	O.F.	OUTSIDE FACE	WWF	WELDED WIRE FABRIC
EOD	EDGE OF DECK	O TO O	OUT TO OUT		
EOS	EDGE OF SLAB	OPP	OPPOSITE		
EQL SP	EQUALLY SPACED	OPNG	OPENING		
ER	END RETURN	OSL	OUTSTANDING LEG		
EW	EACH WAY	PJF	PREMOLDED JOINT FILLER		
EXP JT	EXPANSION JOINT	PL	PLATE		
EXST	EXISTING	PLCS	PLACES		
		P	PILASTER		

**CH2MHILL**

**STAMFORD WPCA**

STAMFORD WATER POLLUTION CONTROL AUTHORITY SOLIDS DRYING PROJECT

GENERAL  
STRUCTURAL DESIGN NOTES AND ABBREVIATIONS

RECORD DRAWING	BG	BG	PW	PW	BG	BG	PW	BG	PW	BG	PW	BG	PW	BG	PW
RE-ISSUED FOR CONSTRUCTION	BG	BG	PW	PW	BG	BG	PW	BG	PW	BG	PW	BG	PW	BG	PW
ISSUED FOR CONSTRUCTION	BG	BG	PW	PW	BG	BG	PW	BG	PW	BG	PW	BG	PW	BG	PW
FOR FINAL REVIEW/ BUILDING PERMIT	BG	BG	PW	PW	BG	BG	PW	BG	PW	BG	PW	BG	PW	BG	PW
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
3	01/20/08	2	09/08/06	1	07/04/06	0	06/05/06								
DGN	CHK	DR	CHK	DR	CHK	DR	CHK	DR	CHK	DR	CHK	DR	CHK	DR	CHK
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VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	1"
DATE	JUNE 2006
PROJ	334058
DWG	G-6
SHEET	S1