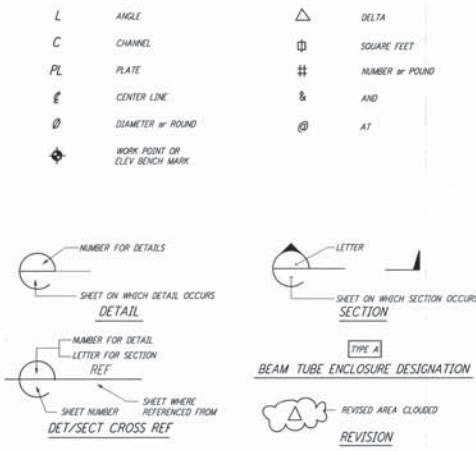


### ABBREVIATIONS

AB	ANCHOR BOLT	MAX	MAXIMUM
ACI	AMERICAN CONCRETE INSTITUTE	MB	MACHINE BOLT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MCH	MECHANICAL
APPROX	APPROXIMATE	MEZ	MEZZANINE
ARCH	ARCHITECTURAL	MFG	MANUFACTURER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MIN	MINIMUM
AWS	AMERICAN WELDING SOCIETY	MISC	MISCELLANEOUS
B/B	BACK TO BACK	MPS	MEETS PER HOUR
B/B	BASE PLATE	NIC	NOT IN CONTRACT
BM	BEAM	NS	NEAR SIDE
BOP	BOTTOM OF FOOTING	NTS	NOT TO SCALE
BOS	BOTTOM OF STEEL	OC	ON CENTER
BRECS	BREACING	OD	OUTSIDE DIAMETER
BTE	BEAM TUBE ENCLOSURE	OH	OPPOSITE HAND
C	CAMBER	OP	OPPOSITE
CC OR C/C	CENTER TO CENTER	OTO	OUT TO OUT
CG	CENTER OF GRAVITY	OPF	POUNDS PER CUBIC FOOT
C/J	CONSTRUCTION JOINT	PL	PLATE
CLG	CEILING	PSF	POUNDS PER SQUARE FOOT
CLP	CLEAR	PSI	POUNDS PER SQUARE INCH
CMU	CONCRETE MASONRY UNIT	PT	POINT
C/S	COLUMN	R	RADIUS
CONC	CONCRETE	RD	ROOF DRAIN
CONT	CONTINUOUS	REF	REFERENCE
CU	CUBIC	REQD	REQUIRED
DET	DETAIL	REV	REVISE OR REVISION
DIAG	DIAGONAL	SCHED	SCHEDULE
DIM	DIMENSION	SECT	SECTION
DL	DEAD LOAD	SHY	SHORT LEG VERTICAL
DO	DRAWING	SLV	SPACED
DWE	DRAWING	SPA	SPACED
DOOR	DOOR	STL	STAINLESS STEEL
EA	EACH	STD	STANDARD
EF	EACH FACE	STR	STIFFENER
ELL	ELEVATION	STM	SYMMETRICAL
ENCL	ENCLOSURE	TAB	TOP AND BOTTOM
ENGR	ENGINEER	THK	THICKNESS
EQ	EQUAL	TOC	TOP OF CONCRETE
EQUIP	EQUIPMENT	TOP	TOP OF FOOTING
ETCSA	ELECTRICAL	TOF	TOP OF STEEL
EW	EACH WAY	TOW	TOP OF WALL
EXIST	EXISTING	TYP	TYPICAL
FD	FLOOR DRAIN	UN	UNLESS OTHERWISE NOTED
FDN	FOUNDATION	VE	VACUUM EQUIPMENT
FIN	FINISH	VERT	VERTICAL
FLR	FLOOR	W/P	WITH
FLNG	FLASHING	WP	WATER PROOF
FRG	FRAMING	WP	WORKING POINT
FRG	FRAMING	WT	WEIGHT
FS	FACE SIDE	WFF	WELDED WIRE FABRIC
FT	FOOT, FEET	WWM	WELDED WIRE MESH
FTG	FOOTING		
GA	GAGE		
GALV	GALVANIZED		
GR	GRADE		
HORIZ	HORIZONTAL		
HP	HIGH POINT		
HSB	HANDRAIL		
HSTB	HIGH STRENGTH BOLT		
ID	INSIDE DIAMETER		
IN	INCH		
INFO	INFORMATION		
INSL	INSULATION		
JST	JOIST		
JT	JOINT		
LB	POUND		
LD	LENGTH		
LL	LIVE LOAD		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LWC	LIGHT WEIGHT CONCRETE		

### SYMBOLS



### GENERAL NOTES

#### GENERAL

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK AND SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCY WITH THE INFORMATION SHOWN ON THE DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
3. FOR TOP OF CONCRETE SLAB FOR BEAM TUBE ENCLOSURE SEE CIVIL DRAWINGS.
4. INSTALLATION AND SEALING OF BEAM TUBE ENCLOSURE SEGMENTS ARE INCLUDED IN THIS CONTRACT.
5. INSTALLATION OF DOORS ARE INCLUDED IN THIS CONTRACT.

#### STRUCTURAL AND MISC METAL WORKS

1. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36.
2. ALL WELDING AND ELECTRODES SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1 STRUCTURAL WELDING CODE.
3. FIELD WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO WELDING.

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### DRAWING INDEX

BT-S-101	GENERAL NOTES, ABBREVIATIONS & LEGEND
BT-S-102	KEY PLAN OF BEAM TUBE ENCLOSURE & PARTIAL ENLARGED PLAN
BT-S-102A	KEY PLAN OF BEAM TUBE ENCLOSURE & PARTIAL ENLARGED PLAN
BT-S-103	BEAM TUBE ENCLOSURE PLANS, SECTIONS & DETAILS

### MATERIALS LEGEND

	CONCRETE		WELDED WIRE FABRIC
	GRAVEL		EARTH
			STRUCTURAL BACKFILL

LIGO-D960780-01-O

NO.	DATE	BY	CHKD	ENGR	PROJ	ISSUED FOR AS BUILT
1	1-22-99	MEF	--	--	MDW	ISSUED FOR AS BUILT

ISSUED FOR CONSTRUCTION	DATE	BY
DRAWN	MCS	E-24-98
CHECKED		
ENGINEER		
PROJ		

**AS-BUILT DRAWINGS**

**PARSONS**  
 100 WEST WALNUT STREET  
 PASADENA, CALIFORNIA

**LIGO**  
 CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER  
 GRAVITATIONAL-WAVE OBSERVATORY  
 BTE INSTALLATION - HANFORD, WA

TITLE	STRUCTURAL GENERAL NOTES, ABBREVIATIONS & LEGEND	SHEET NUMBER	NONE	PP150969	8094
			<b>BT-S-101</b>		