ABBREVIATIONS

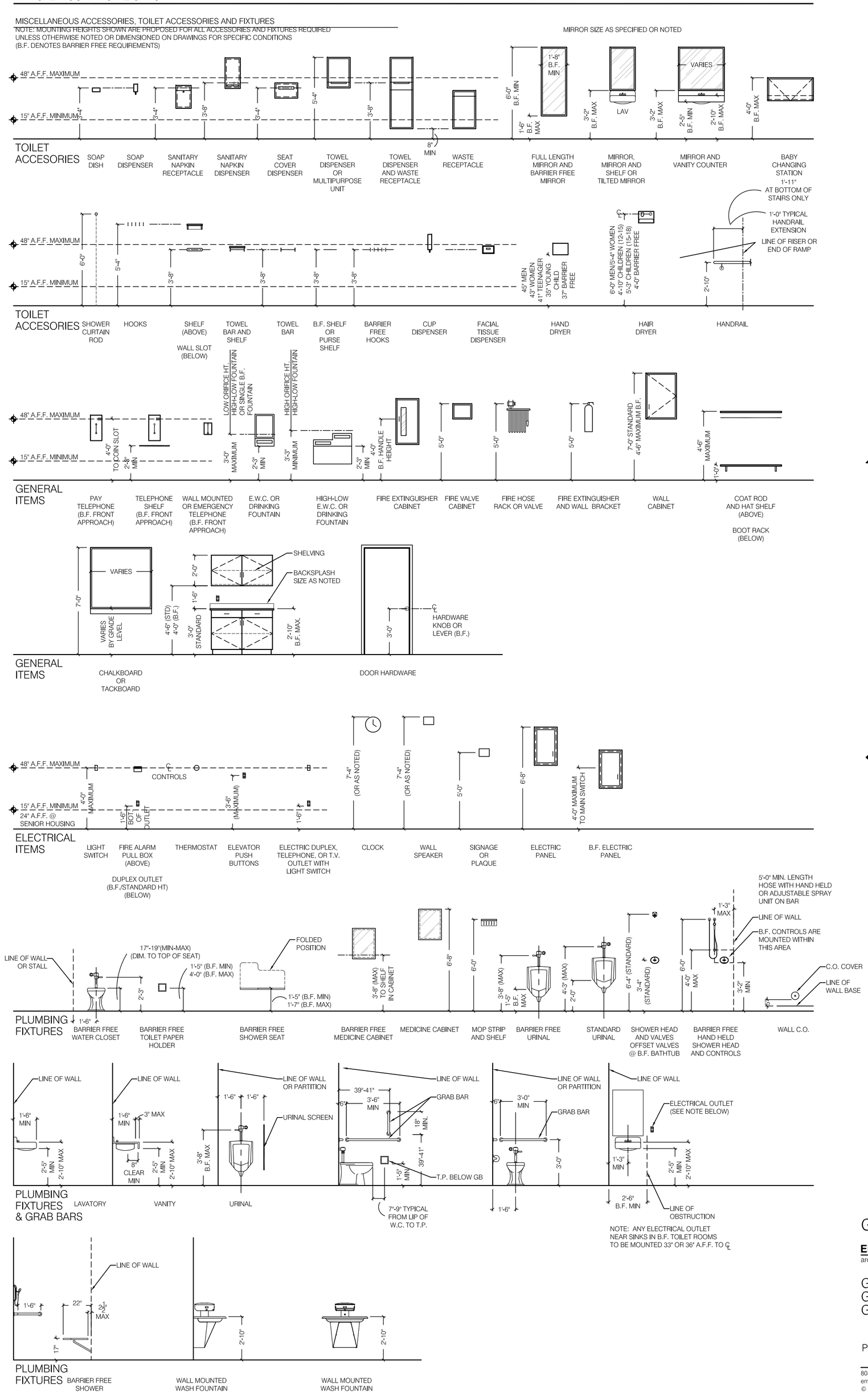
A	
ABV.	ABOVE
A.F.F.	ABOVE FINISH FLOOR
ACC.	ACCESS
ACC. PNL	ACCESS PANEL
ACT	ACOUSTICAL CEILING TILE
ADD.	ADDENDUM
ADDN.	ADDITION
ADJ.	ADJACENT
A/C	AIR CONDITIONING
A.C.C.	AIR CONDITIONING COMPRESSOR
A.C.C.U.	AIR COOLED CONDENSING UNIT
A.H.U.	AIR HANDLING UNIT
ALT.	ALTERNATE
ALUM./AL.	ALUMINIUM
ANCH.	ANCHOR
A.B.	ANCHOR BOLT
&	AND
ANG./∠ OR ∠	ANGLE
ANOD.	ANODIZED
APT.	APARTMENT
APPR.	APPROVED
APPROX.	APPROXIMATE
ARCH.	ARCHITECT/ARCHITECTURAL
A.T.M.	AUTOMATIC TELLER MACHINE
ASPH.	ASPHALT
ASSY.	ASSEMBLY
@	AT
AUTO.	AUTOMATIC
AUX.	AUXILIARY
AVG.	AVERAGE
B	
B/B	BACK TO BACK
B.F.P.	BACK FLOW PREVENTOR
B.D.D.	BACK DRAFT DAMPER
B.F.	BARRIER FREE
B.B.R.	BASE BOARD RADIATION
B.PL	BASE PLATE
BSMT.	BASEMENT
BM	BEAM
B/C	BACK OF CURB
BRG	BEARING
B.M.	BENCHMARK
BT	BENT
BETW.	BETWEEN
BEV.	BEVEL
BIT.	BITUMINOUS
B.I.	BLACK IRON
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BLR	BOILER
BK. SH.	BOOK SHELVES
BOT.	BOTTOM
BOT. EL.	BOTTOM ELEVATION
BLVD.	BOULEVARD
BDRY	BOUNDARY
BRKT	BRACKET
BTU	BRITISH THERMAL UNIT
BLDG.	BUILDING
B.U.R.	BUILT UP ROOFING
BUZZ.	BUZZER
C	
CAB.	CABINET
CAP.	CAPACITY
CAR.	CARPET
C.I.	CAST IRON
C.B.	CATCH BASIN
CLG.	CEILING
CLG. HT.	CEILING HEIGHT
CEM.	CEMENT
CEM. PLAS.	CEMENT PLASTER
CTR	CENTER
℄	CENTERLINE
CER.	CERAMIC
C.T.	CERAMIC TILE
C.BD.	CHALKBOARD
CHAN. OR ⊏	CHANNEL
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CIRCUM.	CIRCUMFERENCE
CIR.BRK.	CIRCUIT BREAKER
CL	CLASSROOM
C.O.	CLEAN OUT
CLR.	CLEAR
CL.	CLOSET
CW	COLD WATER
COL.	COLUMN
CO.	COMPANY
CA	COMPRESSED AIR
CONC.	CONCRETE
C.M.U.	CONCRETE MASONRY UNIT
CWR	COLD WATER RETURN
CWS	COLD WATER SUPPLY
COND.	CONDUIT
CONF.	CONFERENCE
CONST.	CONSTRUCTION
C.J.	CONTROL JOINT
CONT.	CONTINUE/CONTINUOUS
CONTR.	CONTRACTOR
C.P.	CONTROL PANEL
CONV.	CONNECTOR
CRS.	COURSE
COV.	COVER
COV. PL.	COVER PLATE
CU.FT.	CUBIC FEET/CUBIC FOOT
CFV	CONTRACTOR FIELD VERIFY
CULV.	CULVERT
CYL.	CYLINDER
CYC.	CYCLE(S)
CIRCUM.	CIRCUMFERENCE
D	
DMPR	DAMPER
DMPG	DAMPPROOFING
D.L.	DEAD LOAD
DB	DECIBLE
D.	DEEP
DMT.PARTN.	DEMOUNTABLE PARTITION
DEPT.	DEPARTMENT
DEPR.	DEPRESSED
DES.	DESIGN
DET.	DETAIL
D.E.C.	DETROIT EDISON COMPANY
DIAG.	DIAGONAL
DIA. OR Ø	DIAMETER
DIFF.	DIFFUSER
DIM.	DIMENSION
DIR.	DIRECTION
DISC.	DISCONNECT
DW	DISHWASHER
DISP.	DISPENSER
DIST.	DISTANCE
D.P.	DISTRIBUTION PANEL
DIV.	DIMDER/DIVISION
DR.	DOOR
D.O.	DOOR OPENING
DR. OP.	DOOR OPERATOR
DBL.	DOUBLE
D.H.	DOUBLE HUNG
DWL.	DOWEL
DN.	DOWN
D.S.	DOWNSPOUT
DRN	DRAIN
D.T.	DRAIN TILE
D.T.C.	DRAIN TILE CONNECTOR
DWR	DRAWER
DWG.	DRAWING
D.F.	DRINKING FOUNTAIN
DUP.	DUPLICATE

E	
EA	EACH
E.F.	EACH FACE
E.W.	EACH WAY
E	EAST
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
ELAST.	ELASTOMERIC
ELEC.	ELECTRIC/ELECTRICAL
ELEC. CAB.	ELECTRICAL CABINET
E.C.	ELECTRICAL CONTRACTOR
E.P.	ELECTRICAL PANEL
E.W.C.	ELECTRIC WATER PANEL
ELEC. OPER.	ELECTRICALLY OPERATED
EL.	ELEVATION
ELEV.	ELEVATOR
EMERG.	EMERGENCY
ENCL.	ENCLOSURE
ENGR.	ENGINEER
ENTR.	ENTRANCE
EP.	EPOXY
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EQUIV.	EQUIVALENT
ESC.	ESCALATOR
EST.	ESTIMATE
EXC.	EXCAVATED
EXH.	EXHAUST
E.F.	EXHAUST FAN
(E)	EXISTING
E.C.U.	EXISTING CONDITIONS UNKNOWN (VERIFY)
ETR	EXISTING TO REMAIN
EXP.	EXPANSION
E.J.	EXPANSION JOINT
EXP'D	EXPOSED
EXTN	EXTENSION
EXT.	EXTERIOR
E.H.	EXTRA HEAVY
EXTR.	EXTRUDED
F	
FAB	FABRICATED
F.FIN.	FACTORY FINISH
FAS.	FASTENER
FT OR '	FEET OR FOOT
FPM	FEET PER MINUTE
FN	FENCE
F.V.	FIELD VERIFY
FIG.	FIGURE
FIN.	FINISH/FINISHED
FIN.FLR/F.F.	FINISHED FLOOR
F.A.	FIRE ALARM
F.D.	FIRE DAMPER
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
FLASH.	FLASHING
F.C.	FLEXIBLE CONNECTION
FLR	FLOOR
F.C.O.	FLOOR CLEAN OUT
F.D.	FLOOR DRAIN
FLR.FIN.	FLOOR FINISH
FLUOR.	FLUORESCENT
FTG	FOOTING
FDN	FOUNDATION
FR	FRAME
FRMG	FRAMING
FRZR	FREEZER
FURN.	FURNISH
FURR.	FURRING
FUT.	FUTURE
G	
GA.	GAUGE
GALV.	GALVANIZED
G	GAS
GSKT	GASKET
G.V.&B.	GATE VALVE AND BOX
G.R.	GUARD RAIL
GEN'L	GENERAL
GL.	GLASS/GLAZING
G.H.T.	GLAZED HARD TILE
G.B.	GRAB BAR
GRN	GRANITE
G.T.	GREASE TRAP
GND	GROUND
G.F.I.	GROUND FAULT INTERRUPTOR
GT	GROUT
GYP.	GYPSUM
GYP.BD.	GYPSUM BOARD
H	
H.C.	HANDICAPPED
H.R.	HAND RAIL
HDW	HARDWARE
HDWD	HARDWOOD
HD	HEAD
HDR	HEADER
HTR	HEATER
H/V	HEATING AND VENTILATING
H.V.A.C.	HEATING, VENTILATING & AIR CONDITIONING
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HT	HEIGHT
HEX.	HEXAGON
H.	HIGH
H.I.D.	HIGH INTENSITY DISCHARGE
H.P.	HIGH POINT
H.PR.	HIGH PRESSURE
H.S.	HIGH STRENGTH
H.V.	HIGH VOLTAGE
HWY	HIGHWAY
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HK	HOOK
HORIZ.	HORIZONTAL
HP	HORSEPOWER
H.B.	HOSE BIB
H.W.	HOT WATER
H.W.H.	HOT WATER HEATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HR	HOUR
HYD.	HYDRANT
I	
I.D.	INSIDE DIMENSION
INCAND.	INCANDESCENT
IN. OR "	INCH/INCHES
INCL.	INCLUDE/INCLUDING
I.W.	INDIRECT WASTE
INFO	INFORMATION
INSTL.	INSTALL/INSTALLATION
INSUL.	INSULATE/INSULATION
INT.	INTERIOR
INTER.	INTERMEDIATE
INV.	INVERT
I.E.	INVERT ELEVATION
J	
J.C.	JANITOR CLOSET
JT	JOINT
JST	JOIST
J.B.	JUNCTION BOX
K	
K.P.	KICKPLATE
KV	KILOVOLT
KVA	KILOVOLT AMPHERE
KW	KILOWATT
K	KIP (1000#)
KIT.	KITCHEN
K.D.	KNOCK DOWN
K.O.P.	KNOCK OUT PANEL

L	
LBL.	LABEL
LAB.	LABORATORY
LAD.	LADDER
L.B.	LAG BOLT
LAM.	LAMINATE/LAMINATED
LDG	LANDING
LGE	LARGE
LDRY	LAUNDRY
LAV.	LAVATORY
L.H.	LEFT HAND
LGTH	LENGTH
LEV.	LEVEL
LT.	LIGHT
LTG	LIGHTING
L.P.	LIGHTING PANEL
LMS	LIMESTONE
LTL	LINTEL
L.F.	LINEAR FOOT/FEET
LIQ.	LIQUID
L.L.	LIVE LOAD
LOC.	LOCATION
LG	LONG
L.L.H.	LONG LEG HORIZONTAL
L.L.V.	LONG LEG VERTICAL
LVR	LOUVER
L.O.	LOUVER OPENING
L.P.	LOW POINT
L.PR.	LOW PRESSURE
LBS. OR #	POUNDS
M	
MACH.	MACHINE
M.A.U.	MAKE UP AIR UNIT
M.D.P.	MAIN DISTRIBUTION PANEL
M.S.B.	MAIN SWITCH BOARD
MAINT.	MAINTENANCE
M.H.	MANHOLE
MFR.	MANUFACTURER
MAR.	MARBLE
M.O.	MASONRY OPENING
MAX.	MAXIMUM
MECH.	MECHANICAL
MED.	MEDIUM
MEMB.	MEMBRANE
MET.	METAL
M.D.S.	METAL DIVIDER STRIP
M.E.	METAL EDGE
M.L.	METAL LATH
M.L.&PLAS.	METAL LATH & PLASTER
M.T.	MARBLE THRESHOLD
MEZZ.	MEZZANINE
MDOT	MICHIGAN DEPARTMENT OF TRANSPORTATION
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD	MOUNTED
MTG	MEETING
N	
NRC	NOISE REDUCTION COEFFICIENT
NOM.	NOMINAL
N	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO. OR #	NUMBER
O	
OBS.	OBSCURE
O.C.	ON CENTER
OPQ.	OPAQUE
OPG.	OPENING
OPER.	OPERATOR
OPP.	OPPOSITE
ORN.	ORNAMENTAL
OZ.	OUNCE
O.A.	OUTSIDE AIR
O.D.	OUTSIDE DIAMETER
O.A.	OVERALL
O-H	OVERHEAD
O.F.	OVERFLOW
P	
PTD	PAINTED
PR	PATCH AND REPAIR
PNL	PANEL
P.T.D.	PAPER TOWEL DISPENSER
PKG	PARKING
P.BD.	PARTICLE BOARD
PASS.	PASSAGE
PVMT	PAVEMENT
PED	PEDISTAL
PERF.	PERFORATED
PLAS.	PLASTER
P.LAM.	PLASTIC LAMINATE
PL.	PLATE
PLBG	PLUMBING
PLWD	PLYWOOD
PT	POINT
POL.	POLISH/POLISHED
PVC	POLYVINYLCHLORIDE
PORC.	PORCELAIN
PORC.ENAM.	PORCELAIN ENAMEL
POR.	POROUS
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PCF	POUNDS PER CUBIC FOOT
P.P.	POWER PANEL
PREC.	PRECAST
PREFAB	PREFABRICATED
PFN.	PREFINISHED
P.T.	PRESSURE TREATED
P.G.	PRESSURE GAUGE
P.R.V.	PRESSURE REDUCING VALVE
PRIM.	PRIMARY
PROJ.	PROJECT/PROJECTION
PROP.	PROPERTY/PROPOSED
P.L.	PROPERTY LINE
P.A.	PUBLIC ADDRESS
P.S.	PURSE SHELF
P.B.	PUSH BUTTON
Q	
QTY	QUANTITY
Q.T.	QUARRY TILE
QTR	QUARTER
QTR. RD.	QUARTER ROUND
R	
R.	RISER
RAD. OR R.	RADIUS
R.C.	ROOF CONDUCTOR
R.R.	RAILROAD
REF.	REFER/REFERENCE
REFL.	REFLECT./REFLECTED
REFR.	REFRIGERATOR
REINF.	REINFORCE/REINFORCEMENT
REQ'D	REQUIRED
R.A	RETURN AIR
REV.	REVISED/REVISION
RPM	REVOLUTIONS PER MINUTE
R.H.	RIGHT HAND
R.O.W.	RIGHT OF WAY
RD	ROAD
RF	ROOF
R.D.	ROOF DRAIN
R.S.	ROOF SUMP
R.T.U.	ROOF TOP UNIT
RM	ROOM
R.O.	ROUGH OPENING
R.B.	RUBBER BASE

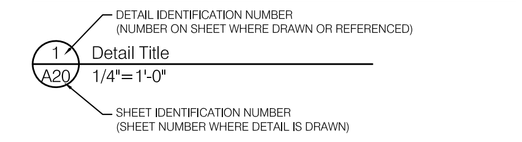
S	
SAN.	SANITARY
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
SCHED.	SCHEDULE
STG.	SEATING
SEC	SECTION
SERV.	SERVICE
SHT	SHEET
SHWR	SHOWER
SIM.	SIMILAR
S.D.	SOAP DISPENSER
S.C.	SOLID CORE
STC	SOUND TRANSMISSION CLASS
S	SOUTH
SP	SPACE
SPKR	SPEAKER
SPEC.	SPECIFICATIONS
SQ.	SQUARE
S.F.	SQUARE FEET
S.S.	STAINLESS STEEL
STD	STANDARD
STM	STEAM
STL	STEEL
STOR	STORAGE
ST.	STREET
STRUCT.	STRUCTURAL
SUSP.	SUSPEND/SUSPENDED
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM.	SYMBOL
SYS.	SYSTEM
T	
T.BD.	TACKBOARD
TECH.	TECHNICAL
TEL.	TELEPHONE
TV	TELEVISION
TEMP.	TEMPORARY
TERR.	TERRAZZO
T.	THERMOSTAT
THRU	THROUGH
T & G	TONGUE & GROOVE
T & B	TOP & BOTTOM
T/C	TOP OF CURB
T/F	TOP OF FOOTING
T/G	TOP OF GUTTER
TFRR.	TRANSFORMER
T	TREAD
T.D.	TRENCH DRAIN
TYP.	TYPICAL
U	
U.C.	UNDERCUT
U.G.	UNDER GROUND
UL	UNDERWRITERS LABORATORY
UNFIN.	UNFINISHED
U.H.	UNIT HEATER
U.V.	UNIT VENTILATOR
U.N.O.	UNLESS NOTED OTHERWISE
UR.	URINAL
V	
VAR.	VARIABLE
VARN.	VARNISH
VNR.	VENEER
V.	VENT
VTR	VENT THRU ROOF
V.I.F.	VERIFY IN FIELD
V.M.	VERIFY WITH MANUFACTURER
VS.	VERSUS
VERT.	VERTICAL/VERTICALLY
VEST.	VESTIBULE
VCT	VINYL COMPOSITION TILE
V.R.S.	VINYL REDUCER STRIP
VIT.	VITREOUS
VOL.	VOLUME
V	VOLTS
W	
WAINS.	WAINSCOT
W.C.O.	WALL CLEAN OUT
W.H.	WALL HYDRANT
W.V.	WALL VENT
W.F.	WASH FOUNTAIN
W.	WASTE
W.C.	WATER CLOSET
W.H.	WATER HEATER
WP	WATERPROOF
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
W	WEST
W.	WIDE/WIDTH
W.B.	WALL BASE
W.O.	WINDOW OPENING
W.M.	WIRE MESH
W/	WITH
W/O	WITHOUT
WD	WOOD
W.P.	WORKING POINT
X	
Y	
YD	YARD
Y.P.	YIELD POINT
Y.S.	YIELD STRENGTH
YR	YEAR
Z	
ZC	ZINC

TYPICAL MOUNTING HEIGHTS

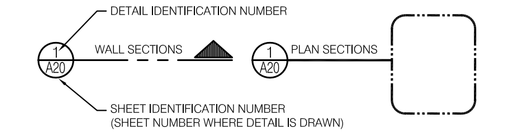


REFERENCE SYMBOLS

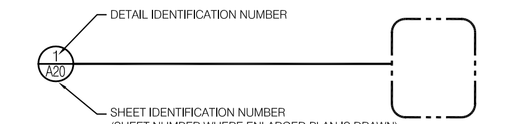
DETAIL IDENTIFICATION



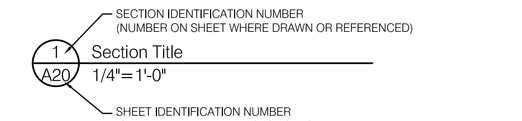
DETAIL LOCATION INDICATION



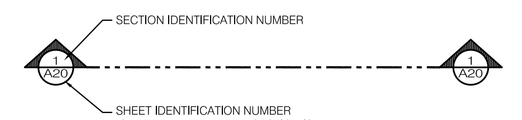
DETAIL LOCATION INDICATION FOR ENLARGED PLANS



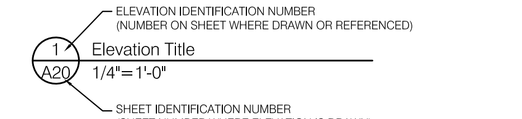
SECTION IDENTIFICATION



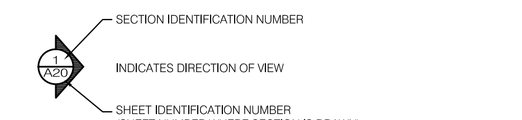
SECTION LOCATION INDICATION



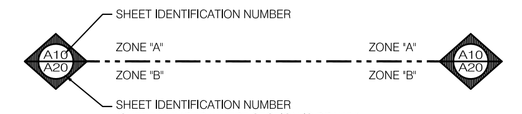
ELEVATION IDENTIFICATION



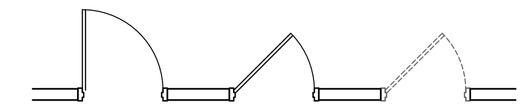
ELEVATION INDICATION



MATCH LINE INDICATION

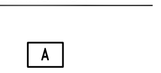


DOOR INDICATION

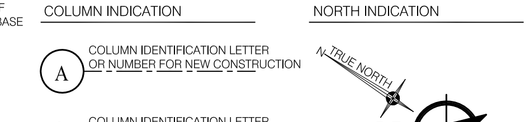


ROOM NAME AND NUMBER

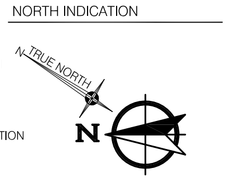
DOOR IDENTIFICATION



COLUMN INDICATION



NORTH INDICATION



Bidding: 22 March 12

General Information

Scale: 1/4"=1'-0"

Ehresman Associates, Inc.
architects • engineers

Grosse Pointe Public School System
Grosse Pointe South High School
Greenhouse Stabilization

Project No. 5309

A00

803 West Big Beaver Road, Suite 350, Troy, Michigan 48084 • 248.244.9710 • (f) 248.244.9712
email: architects@ehresmanassociates.com
© Ehresman Associates, Inc. 2012