

# ABBREVIATIONS

(A)	ABANDONED	HP	HORSEPOWER
ADDL	ADDITIONAL	HWR	HOT WATER RETURN
AFF	ABOVE FINISHED FLOOR	HWS	HOT WATER SUPPLY
AIC	AMPERE INTERRUPTING CAPACITY	HYP	HYPOCHLORITE
ALUM	ALUMINUM	ID	INSIDE DIAMETER
AOBE	AS ORDERED BY ENGINEER	IJ	ISOLATION JOINT
ARV	AIR RELEASE VALVE	INF	INFLUENT
AT	ASTRONOMIC TIMER	INT	INTERIOR
B, BOT	BOTTOM	INV.	INVERT ELEVATION
BC	BOTTOM OF CURB	LBS. #	POUNDS
BF	BLIND FLANGE	LF	LINEAR FEET
BFV	BUTTERFLY VALVE	LP	LOW POINT
BLW	BLOWOFF	LS	LIMIT SWITCH
BM	BEAM	MAX	MAXIMUM
BP, BYP	BY PASS	MCC	MOTOR CONTROL CENTER
BPWW	BACKWASH WATER	MECH	MECHANICAL
BV	BALL VALVE	MFG	MANUFACTURER
BWW	BELT PRESS WASH WATER	MH	MANHOLE
C	CONDUIT OR CONDENSATE	MIN	MINIMUM
CL	CLEARANCE OR CENTERLINE	MJ	MECHANICAL JOINT
C.I.	CAST IRON	MO	MASONRY OPENING
C.O.	CLEAN OUT	MOPO	MAINTENANCE OF PLANT OPERATIONS
CB	CIRCUIT BREAKER/CATCH BASIN	MWR	MUDWELL RETURN
CCT	CHLORINE CONTACT TANK	NC	NORMALLY CLOSED
CHL	CHLORINE	NEC	NATIONAL ELECTRICAL CODE
CJ	CONSTRUCTION JOINT	NO	NUMBER OR NORMALLY OPEN
COL	COLUMN	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	OC, O/C	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONT	CONTINUE, CONTINUOUS	OE	OVERHEAD ELECTRIC
CP	CONTROL PANEL	OF	OUTFALL
CPT	CONTROL POWER TRANSFORMER	OPNG	OPENING
CR	CORROSION RESISTANT	OT	OVERHEAD TELEPHONE
CU	COPPER	O/F	OVERFLOW
CV	CHECK VALVE	PB	PULLBOX
D	DRAIN	PD	PLANT DRAIN
DET	DETAIL	PE	PLANT EFFLUENT
DFB	DENITE FILTER BACKWASH	PL	PLATE OR PROPERTY LINE
DFE	DENITE FILTER EFFLUENT	PLV	PLUG VALVE
DFI	DENITE FILTER INFLUENT	PS	PRESSURE SWITCH OR PRIMARY SLUDGE
DFIB	DENITE FILTER INFLUENT BACKWASH	PVC	POLYVINYL CHLORIDE PIPE
DG	DIGESTER GAS	RAS	RETURN ACTIVATED SLUDGE
DI	DUCTILE IRON	RCP	REINFORCED CONCRETE PIPE
DIA.	DIAMETER	RD	ROOF DRAIN
DIS	DISCHARGE	REC	RECIRCULATION
DMH	DRAIN MANHOLE	RED	REDUCER
DPI	DIFFERENTIAL PRESSURE INDICATOR	REINF	REINFORCE, REINFORCING
DPS	DIFFERENTIAL PRESSURE SWITCH	REQD	REQUIRED
DS	DOOR MOUNTED SWITCH (INTRUSION ALARM)	RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
DSL	DIGESTED SLUDGE	RSL	RAW SLUDGE
DW/G(S)	DRAWING(S)	RVSS	REDUCED VOLTAGE SOLID STATE STARTER
DWLS	DOWELS	S	SANITARY SEWER OR SEWAGE
E	ELECTRIC	SC	SCREENINGS OR SCUM
EA	EACH	SCH	SCHEDULE
EC	ELECTRICAL CONTRACTOR	SCW	SCRUBBER WATER
EE	EACH END	SFM	SLUDGE FORCE MAIN
EF	EACH FACE	SH	SODIUM HYDROXIDE
EFF	EFFLUENT	SL	SLUDGE
EH	ELECTRICAL HANDHOLE	SLW	SLUDGE WITHDRAWAL
EJ	EXPANSION JOINT	SN	SUPERNATANT
EL,ELEV	ELEVATION	SPECS	SPECIFICATIONS
ELL	ELBOW	SQ.	SQUARE
EOF	EMERGENCY OVERFLOW	SQ. FT./SF	SQUARE FEET
EP	EDGE OF PAVEMENT	STD	STANDARD
EQ	EQUAL	STN. STL./SS	STAINLESS STEEL
EQUIP	EQUIPMENT	STRUCT	STRUCTURAL
ES	EACH SIDE	SUC	SUCTION
ETC	ET CETERA	SV	SOLENOID VALVE
EW	EACH WAY	SWR	SCRUBBER WATER RETURN
EWV	ELECTRIC WATER HEATER	T	TELEPHONE
EXIST.	EXISTING	T&B	TOP AND BOTTOM
EXP	EXPANSION	TB	TERMINAL BOX
EXT	EXTERIOR	TDC	TIME DELAY CLOSE
EMH	ELECTRICAL MANHOLE	TDO	TIME DELAY OPEN
EUH	ELECTRIC UNIT HEATER	TDR	TIME DELAY RELAY
F	FLOW SWITCH	TC	TOP OF CURB
F.F./FIN. FLR.	FINISHED FLOOR	THERM	THERMOSTAT
FBO	FURNISHED BY OTHERS	TOS	TOP OF STEEL
FND	FOUNDATION	TOW	TOP OF WALL
FE	FINAL EFFLUENT	TS	THICKENED SLUDGE
FI	FLOW INDICATOR	TYP	TYPICAL
FIL	FILTRATE	U.O.N	UNLESS OTHERWISE NOTED
FL	FLOOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
FM	FORCE MAIN	V	VENT
FR	FRACTIONAL HORSEPOWER	VERT	VERTICAL
FRP	FIBERGLASS REINFORCED PLASTIC	VFD	VARIABLE FREQUENCY DRIVE
FS	FLOAT SWITCH	VIF	VERIFY IN FIELD
FTG	FOOTING	W	WATER
FVNR	FULL VOLTAGE NON-REVERSING STARTER	W	WITH
G	GAS	WAS	WASTE ACTIVATED SLUDGE
GALV	GALVANIZED	WP	WEATHER-PROOF
GC	GENERAL CONTRACTOR	WS	WATER SERVICE
GFI	GROUND FAULT CIRCUIT INTERRUPTER	WW	WASHWATER
GS	GAS SERVICE	WWF	WELDED WIRE FABRIC
GV	GATE VALVE		
HDPE	HIGH DENSITY POLYETHYLENE		
HOA	HAND-OFF-AUTOMATIC SWITCH		
HOF	HEAT-OFF-FAN SWITCH		

# CIVIL-EXISTING

	CURB
	CONTOUR
	SPOT ELEVATION
	TOP OF CURB ELEVATION
	BOTTOM OF CURB ELEVATION
	TREE
	TREE (EVERGREEN)
	VEGETATION LINE (HEDGES, LARGE SHRUBS, ETC.)
	UTILITY POLE
	LIGHT POLE
	FENCE
	SIGN
	GAS VALVE
	GAS METER
	WATER VALVE
	WATER METER
	HYDRANT
	STORM DRAIN MANHOLE
	CATCH BASIN
	SANITARY SEWER MANHOLE
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	UNKNOWN MANHOLE
	GAS MAIN
	WATER MAIN
	SANITARY SEWER
	STORM DRAIN
	ELECTRIC LINE
	TELEPHONE LINE
	UNDERGROUND PROCESS PIPING (SEE ABBREVIATIONS FOR DESCRIPTIONS)

# CIVIL-PROPOSED

	CONTOUR
	SPOT ELEVATION
	TOP OF CURB ELEVATION
	BOTTOM OF CURB ELEVATION
	BELGIAN BLOCK CURB
	TREE
	LIGHT POLE
	FENCE
	STORM DRAIN MANHOLE
	YARD INLET
	CATCH BASIN
	SANITARY SEWER MANHOLE
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	WATER MAIN
	SANITARY SEWER
	STORM DRAIN
	ELECTRIC LINE
	TELEPHONE LINE
	UNDERGROUND PROCESS PIPING (SEE ABBREVIATIONS FOR DESCRIPTIONS)
	ASPHALT PAVEMENT
	CONCRETE
	GRAVEL
	SILT FENCE
	STORM DRAIN INLET FILTER
	SODDING
	PIPE SLOPE DRAIN
	PERIMETER/DIKE SWALE

# MECHANICAL/PLUMBING

	AIR RELEASE VALVE
	GATE VALVE
	BACK PRESSURE CONTROL VALVE
	BALL VALVE
	BUTTERFLY VALVE
	BUTTERFLY VALVE W/MOTORIZED ACTUATOR
	PLUG VALVE
	CHECK VALVE
	SOLENOID VALVE ASSEMBLY
	VENTURI METER
	FLANGED FITTING
	MECHANICAL JOINT FITTING
	UNION
	FLOW SWITCH, FLOW INDICATOR
	PRESSURE SWITCH
	FLOW TRANSMITTER
	CORPORATION STOP/ SERVICE CONNECTION
	WATER METER
	LIMIT SWITCH
	PRESSURE GAUGE
	HOSE BIBB
	FLOAT SWITCH
	AIR FILTER
	INTAKE LOUVER
	BACKDRAFT DAMPER
	RPZ-BACKFLOW PREVENTER
	AIR FLOW MEASURING STATION

# SYMBOLS

## ELECTRICAL

	MOTOR - INSERT DENOTES HORSE POWER
	480V DISCONNECT SWITCH, 3 POLE, 3 FUSE (a INDICATES SWITCH RATING AND b INDICATES FUSE RATING, IN AMPS) LIGHT POLE
	480V NON-FUSED DISCONNECT SWITCH (a INDICATES SWITCH RATING IN AMPS)
	COMBINATION MOTOR STARTER
	WALL BATTERY PACK - 2 LAMP FIXTURE. SEE SPECIFICATION FOR LIGHTING FIXTURE SCHEDULE
	LIGHTING FIXTURE (UPPER CASE LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES RESPECTIVE SWITCH, NUMERAL INDICATES CIRCUIT NUMBER) SEE SPECIFICATION FOR LIGHTING FIXTURE SCHEDULE
	LED LIGHTING FIXTURE WITH INTEGRAL OCCUPANCY SENSOR
	LED LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP
	LED LIGHTING FIXTURE WITH INTEGRAL OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP
	DEVICE (SEE ABBREVIATIONS FOR TYPE)
	208/120V UTILITY PANEL
	HOME RUN TO PANELBOARD LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER
	INDICATES WIRE AND CONDUIT RUN (SEE CONDUIT AND CABLE SCHEDULE)
	GROUND CABLE
	CONDUIT AND WIRING RUN EXPOSED
	CONDUIT CONCEALED OR BURIED
	CONDUIT (TURNED UP)
	CONDUIT (TURNED DOWN)
	CONDUIT FOR TELEPHONE SYSTEM
	SINGLE PHASE MOTOR STARTING SWITCH WITH TERMINAL OVERLOAD
	LIMIT SWITCH
	FLOW SWITCH
	CAPPED CONDUIT (EXPOSED)
	JUNCTION BOX
	CONVECTION HEATER

## ARCHITECTURAL/STRUCTURAL

	EXISTING
	EXISTING TO BE REMOVED (SEE NOTE 2)
	NEW
	NEW (HIDDEN)
	NEW CONCRETE
	NEW MASONRY WALLS
	GRATING
	EARTH
	NEW CONCRETE (SITE PLANS ONLY)
	NEW PAVEMENT (SITE PLANS ONLY)
	SECTION DUCT SIZE - FIRST DIMENSION IS HORIZONTAL
	ELEVATION OF DUCT SIZE - FIRST DIMENSION IS SIDE SHOWN
	PLAN OF DUCT SIZE - FIRST DIMENSION IS SIDE SHOWN
	VENTILATION DUCT TURN UP / TURN DOWN RESPECTIVELY
	FLEXIBLE CONNECTION

## HVAC

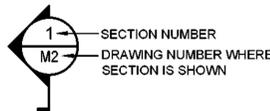
# ELECTRICAL (CONTINUED)

	SWITCH (LOWER CASE LETTER INDICATES FIXTURES & EQUIPMENT TO BE SWITCHED) (REFER TO SPECIFICATION FOR RATINGS) (D INDICATES 0-10V DIMMING)
	THREE-WAY SWITCH (LOWER CASE LETTER INDICATES FIXTURES AND EQUIPMENT TO BE SWITCHED) (REFER TO SPECIFICATION FOR RATINGS) (D INDICATES 0-10V DIMMING)
	DUPLEX RECEPTACLE, 2 POLE, 3 WIRE, 120V, 20A, 18" A.F.F. UNLESS OTHERWISE NOTED
	GRD FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, 2 POLE, 3 WIRE, 120V, 20A, 18" A.F.F. UNLESS OTHERWISE NOTED
	RECEPTACLE, SPECIFIC PURPOSE - VERIFY REQMT
	AIR TERMINAL FOR LIGHTNING PROTECTION SYSTEM
	GROUND ROD WITH INSPECTION WELL
	SECTION OF CONCRETE CONDUIT BANK
	THERMOSTAT
	SOLENOID VALVE COIL
	N.C. LIQUID LEVEL SWITCH
	N.C. AIR PRESSURE SWITCH
	CONTROL STATION
	AC COMBINATION FULL VOLTAGE NON-REVERSING STARTER WITH MAGNETIC BREAKER
	TRANSFORMER (SEE SINGLE LINE DIAGRAM)
	TRANSFORMER-TYPE AND SIZE AS NOTED ON THE DRAWINGS AND IN SPECIFICATIONS
	FUSE
	MICROPROCESSOR BASED METERING DEVICE (SEE SPECIFICATIONS)
	CIRCUIT BREAKER (a INDICATES FRAME SIZE AND b INDICATES TRIP SIZE)
	CIRCUIT BREAKER, DRAW OUT TYPE (a INDICATES TRIP SIZE)
	EQUIPMENT/DEVICE FURNISHED AND INSTALLED UNDER GENERAL OR MECHANICAL CONTRACTS, CONDUIT AND WIRING INCLUDING TERMINATIONS BY ELECTRICAL CONTRACTOR.

## DETAIL REFERENCES



## SECTION REFERENCES



NOTE: ON THE SHEET THE SECTION/DETAIL IS LOCATED, THE BOTTOM NUMBER REFERENCES BACK TO THE SHEET WHERE IT FIRST APPEARS IN THE DRAWING SET.

## MISCELLANEOUS SYMBOLS

	INDICATES EXISTING BUILDINGS, STRUCTURES AND FEATURES, ETC.
	INDICATES EXISTING BUILDINGS, STRUCTURES AND FEATURES, ETC. TO BE DEMOLISHED
	INDICATES PROPOSED BUILDINGS, STRUCTURES AND FEATURES, ETC.

0'-0" (100.00) BUILDING ELEVATION (SITE ELEVATION)

## NOTES:

- SYMBOLS/ ABBREVIATIONS LIST APPLIES TO ALL CONTRACTS
- THE REMOVAL SYMBOL APPLIES TO ALL ITEMS TO BE REMOVED INCLUDING CIVIL, MECHANICAL, PLUMBING, HEATING, VENTILATING, ELECTRICAL ETC.

NO.	DATE	REVISION	INT.



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<b>TOWN OF BLOOMING GROVE</b>	
ORANGE COUNTY	NEW YORK
<b>LASSER PARK SENIOR CENTER</b>	

<b>CONTRACT 2</b>	
<b>SYMBOLS AND ABBREVIATIONS</b>	
<b>GENERAL</b>	
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