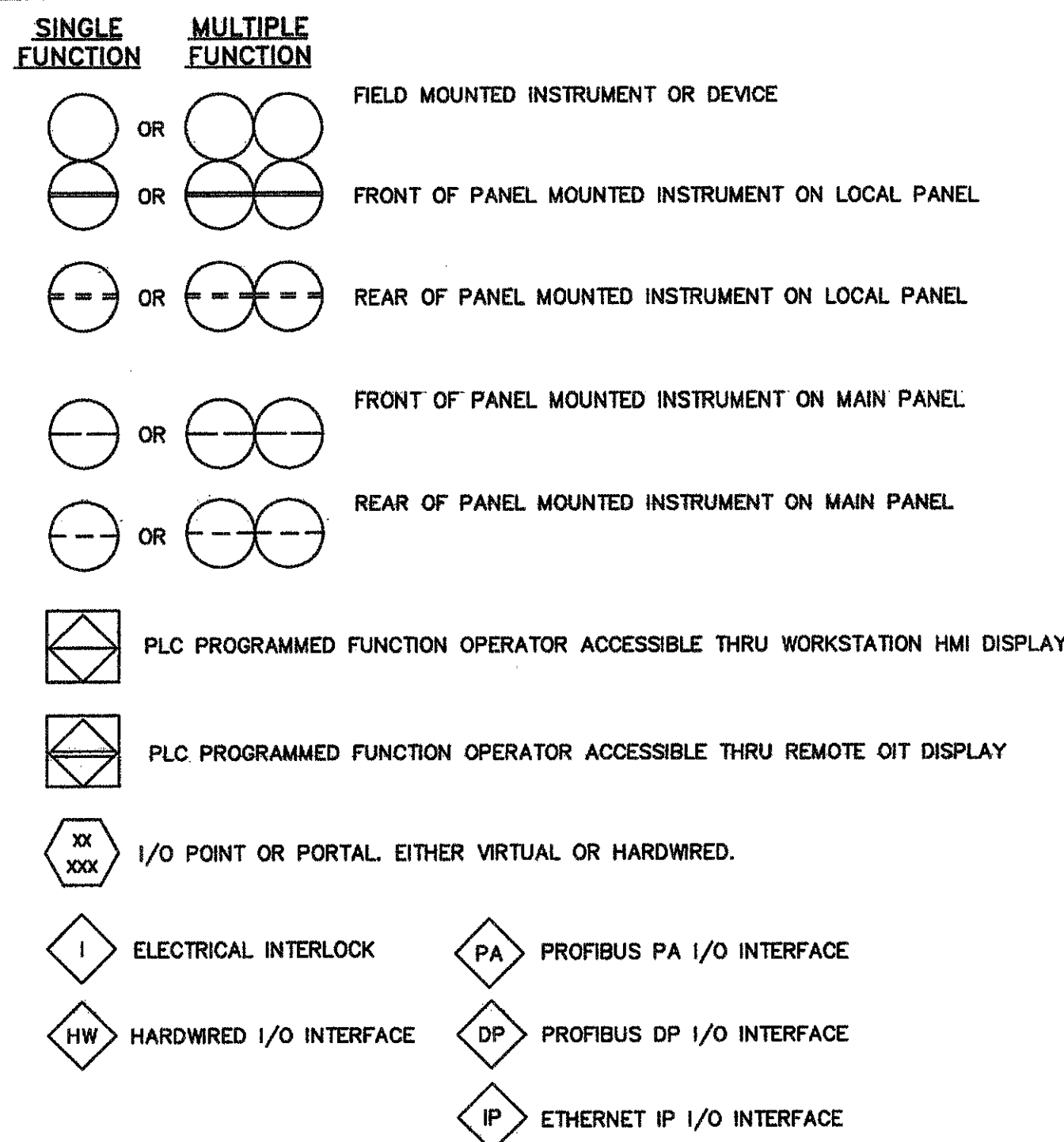


BASIC SYMBOLS



CODES AND ABBREVIATIONS

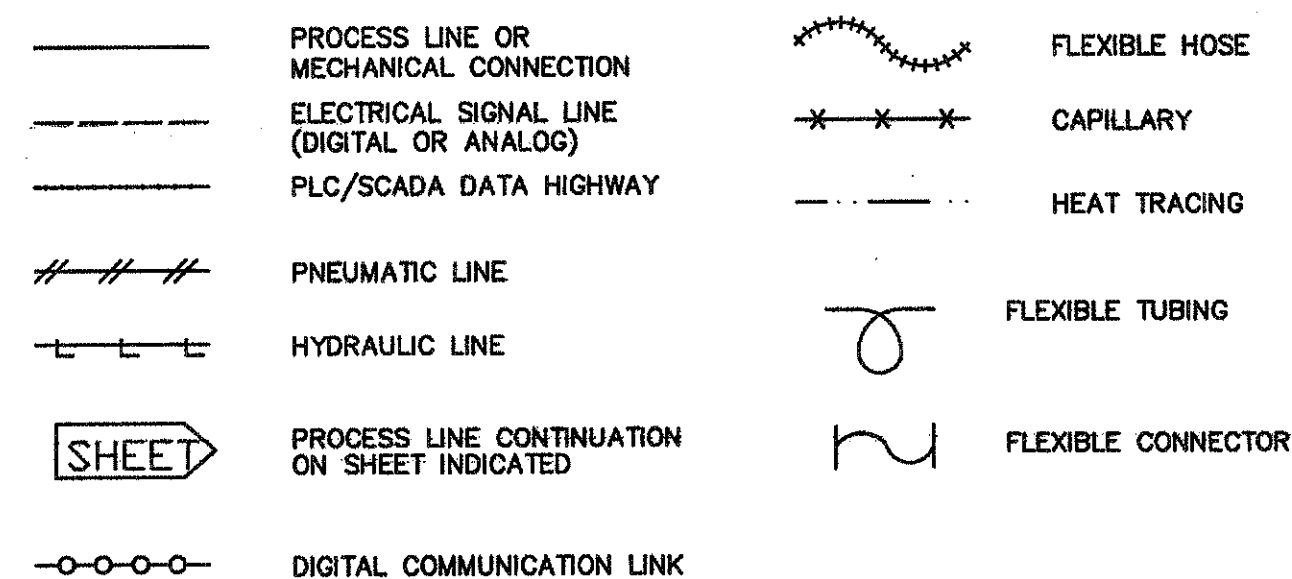
* SUPPLIED WITH ELECTRICAL OR MECHANICAL EQUIPMENT	HMI HUMAN MACHINE INTERFACE
** SUPPLIED WITH VENDOR PACKAGE	OIT OPERATOR INTERFACE TERMINAL
Δ SUPPLIED BY CONTROL SYSTEMS INTEGRATOR	LCS LOCAL CONTROL STATION
	NIP NETWORK INTERFACE PANEL
	LCP LOCAL CONTROL PANEL
	RIO REMOTE I/O PANEL
	LAP LOCAL ALARM PANEL
	IP ETHERNET I/P
	PA PROFIBUS PA
	DP PROFIBUS DP

E--STOP EMERGENCY STOP	HOA HAND-OFF-AUTO
O/R OVERRIDE	HOR HAND-OFF-REMOTE
RST RESET	LOR LOCAL/OFF/REMOTE
OCR OPEN-CLOSE-REMOTE	S/S START / STOP
OSC OPEN-STOP-CLOSE	OSC OPEN-STOP-CLOSE
O/C OPEN / CLOSE	O/O ON / OFF
FOS FAST-OFF-SLOW	LOS LOCK OUT STOP
LAR LOWER-AUTO-RAISE	L/R LOWER/RAISE
F/R FORWARD/REVERSE	FOR FORWARD-OFF-REVERSE
SIL SILENCE	PDC POINT OF CONTROL

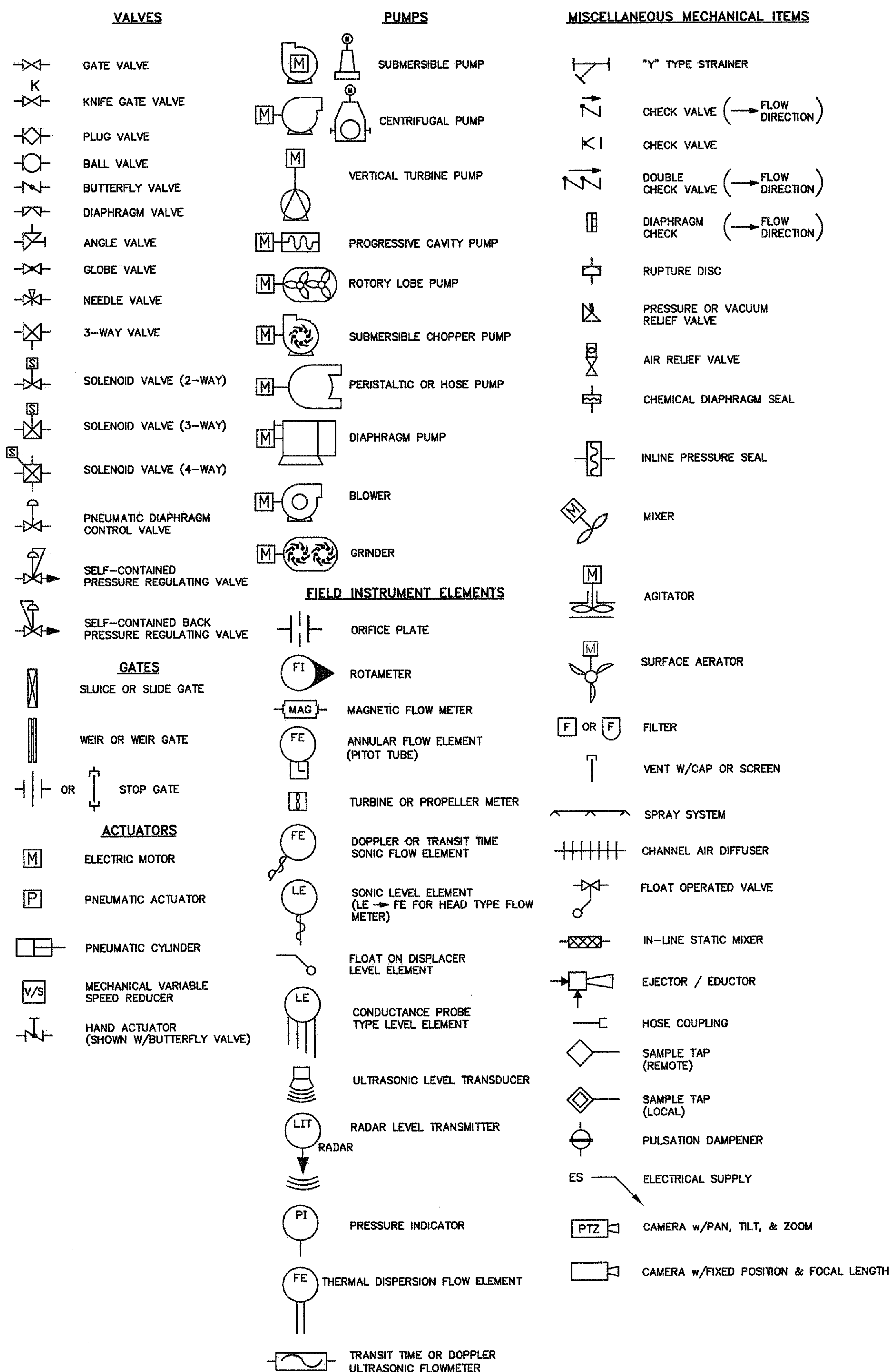
EXAMPLE: HOA HS 103.1

SEE D0-001 FOR ALL OTHER ABBREVIATIONS

LINE CODES



PROCESS SYMBOLS



FUNCTION PREFIX SCHEDULE

LETTER	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER		PROGRAMMER		
C	CONDUCTIVITY (ELECTRICAL)		CLOSE/CLOSED	CONTROL	
D	DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENTIAL		DIFFERENTIAL	
E	VOLTAGE (EMF)		PRIMARY ELEMENT		
F	FLOW RATE	RATIO (FRACTION)			
G	GAGING		GLASS		
H	HAND (MANUALLY INITIATED)				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME OR TIME SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT (PILOT) OR TEXT		LOW
M	MOTOR				MIDDLE OR INTERMEDIATE
N	VIBRATION	IGNITER			
O	OPERATION	OFFSET	OPEN		
P	PRESSURE OR VACUUM		POINT (TEST CONNECTION)		
Q	QUANTITY	INTEGRATE OR TOTALIZE			
R	RADIOACTIVITY		RECORD OR PRINT		
S	SPEED OR FREQUENCY	SAMPLE		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTI-VARIABLE	TREND	MULTI-FUNCTION	MULTI-FUNCTION	MULTI-FUNCTION
V	VISCOSITY			VALVE DAMPER OR LOUVER	
W	WEIGHT, FORCE OR TORQUE		WELL		
X	EVENT		SPECIAL		
Y	STATUS			RELAY OR COMBUTE	
Z	POSITION				DRIVE ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT

INSTRUMENT TAG NUMBERING CONVENTION

EXAMPLE: 08-LIT-100A



WHERE:

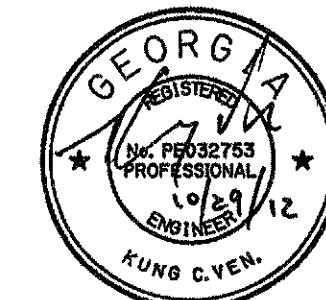
'08' IS THE FUNCTION AREA DESIGNATOR FOR THE MBR. 'LIT' IS THE ISA STANDARD DESIGNATOR FOR A LEVEL INDICATING TRANSMITTER. '100' IS THE LOOP NUMBER BASED ON THE PROCESS EQUIPMENT NUMBER. 'A' IS THE ITEM DESIGNATOR WHEN THERE ARE IDENTICAL COMPONENTS WITH THE SAME LOOP NUMBER. OR IS THE PROCESS AREA DESIGNATOR WHEN THERE ARE MULTIPLE IDENTICAL PROCESS AREAS.

TO INSURE LEGIBILITY OF THE INSTRUMENT TAG NUMBER WITHIN THE CONFINES OF THE INSTRUMENT SYMBOLS, (BUBBLES), ON THE PAID DRAWINGS ONLY, THE FUNCTIONAL AREA DESIGNATORS I.E. '08' WILL NOT BE SHOWN. A NOTE ON EACH PAID SHEET WILL STATE THAT IS SHOULD BE UNDERSTOOD THAT EACH INSTRUMENT TAG NUMBER BE PREFIXED BY I.E. '08' FOR REFERENCE ON ALL OTHER PROJECT DOCUMENTS.

NOTES:

CONTRACTOR SHALL PROVIDE ALL INTERFACES AND PROGRAMMING BETWEEN INSTRUMENTS, ELECTRICAL, PUMPS, UTILITIES, AND EXISTING CITY OF ATLANTA COMPONENTS TO PRODUCE A COMPLETE, WORKING, AND FUNCTIONAL INSTRUMENTATION, CONTROLS, AND MONITORING SYSTEM.

PROVIDE FULL RANGE OF PROGRAMMING REQUIREMENTS INCLUDING LEVEL AND FLOW LIMITING CONDITIONS.



PEACHTREE CREEK SOUTH FORK RELIEF STORAGE AND PUMPING STATION



DEPARTMENT of WATERSHED MANAGEMENT

REV	DATE	REVISION DESCRIPTION
0	10/28/12	100 PERCENT BID PACKAGE

THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE

THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

PROJECT NO: FC-6260

DATE: OCTOBER 2012

RESP PROF: KCV DESIGNER: WHP CHECKER: BLB

SHEET TITLE

INSTRUMENTATION

00 - GENERAL

LEGEND

ABBREVIATIONS

AND NOTES