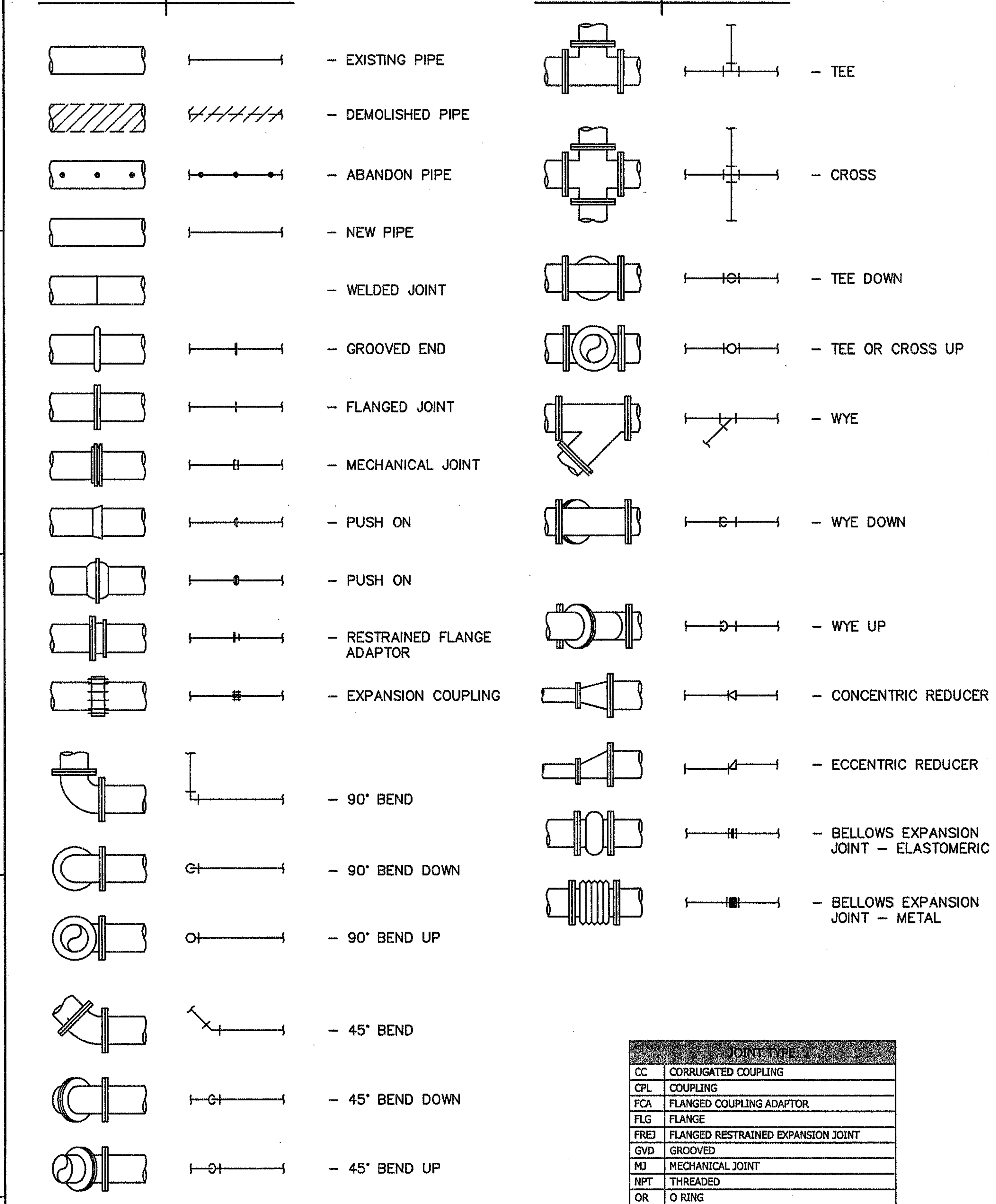
PIPE AND FITTING SYMBOLS



JOINT TYPE	
CC	CORRUGATED COUPLING
CPL	COUPLING
FCA	FLANGED COUPLING ADAPTOR
FLG	FLANGE
FREJ	FLANGED RESTRAINED EXPANSION JOINT
GVD	GROOVED
MJ	MECHANICAL JOINT
NPT	THREADED
OR	O RING
PE	PLAIN END
PO	PUSH ON
RFA	RESTRAINED FLANGE ADAPTOR
RJ	RESTRAINED JOINT
SW	SOLVENT WELD
SWT	SWEAT

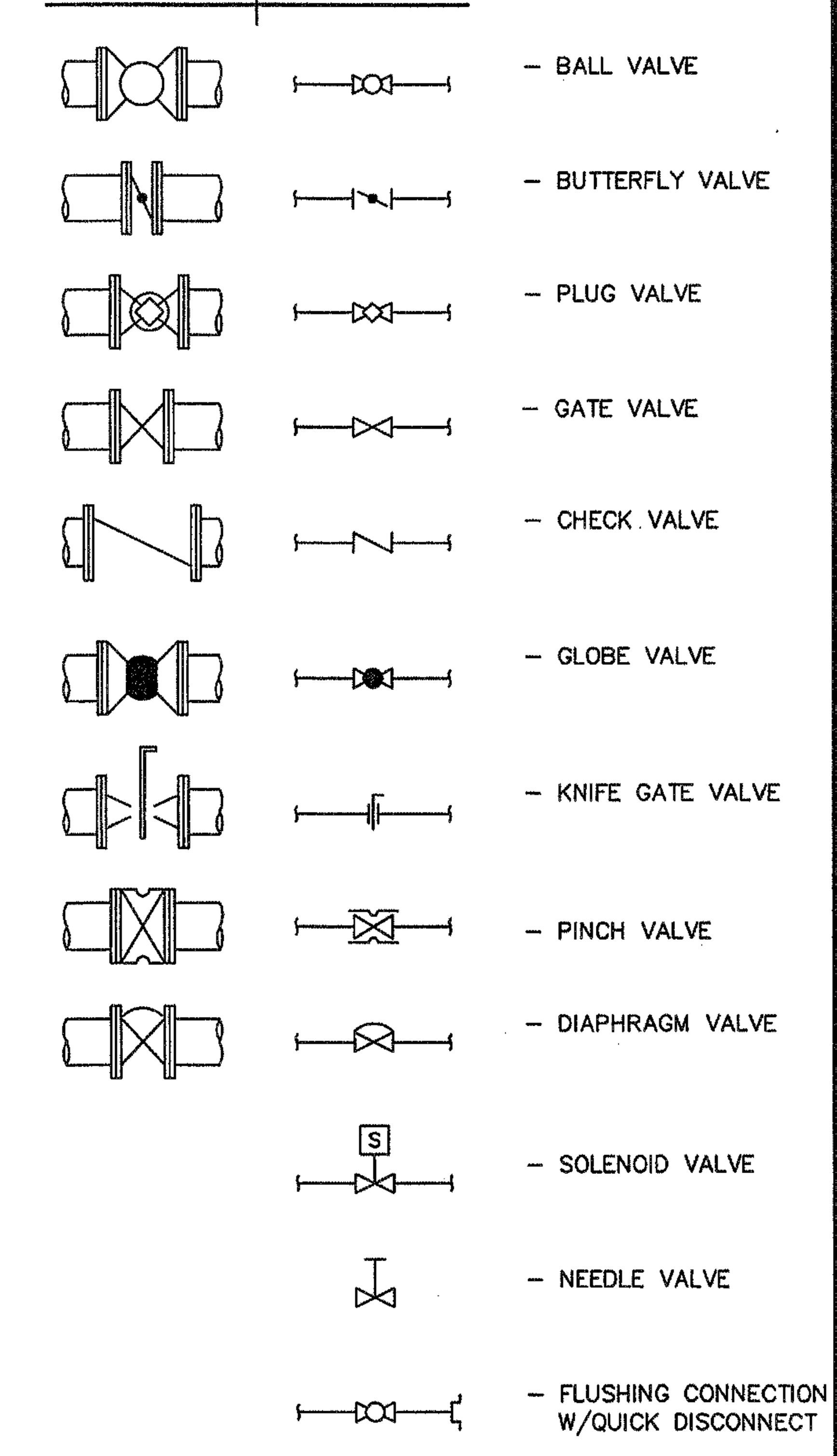
NOTE:

1. DOUBLE LINE FITTINGS ARE FLANGED. OTHER CONNECTIONS ARE SHOWN SIMILAR ON THE DRAWINGS.
2. SINGLE LINE FITTINGS ARE GENERIC ONLY.

NOTE:

1. THIS IS A STANDARD LEGEND SHEET. ALL INFORMATION ON THIS LEGEND MAY NOT BE USED.

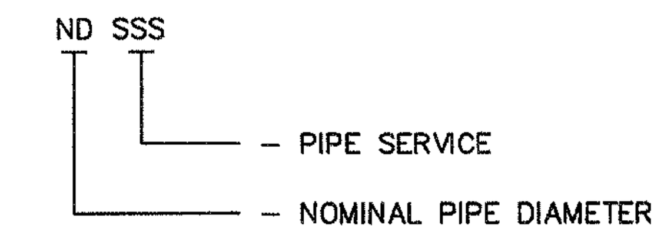
VALVE SYMBOLS



VALVE & GATE TYPES	
- VALVES -	
ARV	AIR RELEASE VALVE
AVV	AIR VACUUM VALVE
BCV	BALL CHECK VALVE
BFP	BACKFLOW PREVENTER
BPV	BACKPRESSURE VALVE
BV	BALL VALVE
BFV	BUTTERFLY VALVE
CNV	CONE VALVE
CV	CHECK VALVE
DDCV	DOUBLE DISC CHECK VALVE
DV	DIAPHRAGM VALVE
DWV	DIAPHRAGM WEIR VALVE
GBV	GLOBE VALVE
GTV	GATE VALVE
HOV	HYDRAULICALLY OPERATED VALVE
KGV	KNIFE GATE VALVE
MOV	MOTOR OPERATED VALVE
MV	MUD VALVE
NV	NEEDLE VALVE

VALVE & GATE TYPES	
PHV	PINCH VALVE
POV	PNEUMATICALLY OPERATED VALVE
PRV	PRESSURE REDUCING/RELIEF VALVE
PSV	PRESSURE SUSTAINING VALVE
PV	PLUG VALVE
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RV	ROTARY VALVE
SRV	SURGE RELIEF VALVE
SV	SOLENOID VALVE
SWCV	SWING CHECK VALVE
TDCV	TILT DISC CHECK VALVE
- GATES -	
DVG	DIVERTER GATE
RG	ROLLER GATE
SG	SLUICE GATE
SHG	SHEAR GATE
SLG	SLIDE GATE
WG	WEIR GATE

PIPE LINE IDENTIFICATION



PIPE SERVICES/SYSTEM IDENTIFIERS	
NPW	NON POTABLE WATER
PD	PLANT DRAIN
POT	POTABLE WATER
RS	RAW SEWAGE
SS	SANITARY SEWER
V	VENT

PIPE MATERIAL ABBREVIATION	
CIP	CAST IRON PIPE
CISP	CAST IRON SOIL PIPE
CPVC	CHLORINATED POLYVINYL CHLORIDE PIPE
CSP	CARBON STEEL PIPE
CU	COPPER PIPE
DIP	DUCTILE IRON PIPE
FRP	FIBERGLASS REINFORCED PLASTIC PIPE
GIP	GALVANIZED IRON PIPE
GSP	GALVANIZED STEEL PIPE
PVC	POLYVINYL CHLORIDE
RCP	REINFROCED CONCRETE PIPE
SS	STAINLESS STEEL PIPE

GENERAL NOTES:

1. LAY GRAVITY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS.
2. SIZE OF FITTINGS SHOWN ON DRAWINGS SHALL CORRESPOND TO ADJACENT PIPING, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT PIPE SEGMENTS.
3. INDICATED LOCATION AND NUMBER OF PIPE HANGERS AND PIPE SUPPORTS ARE APPROXIMATE. CONTRACTOR SHALL DESIGN SUPPORTS AS SPECIFIED IN SECTION 15060 AND AS SHOWN ON THE STANDARD DETAILS.
4. ALL JOINTS SHALL BE WATERTIGHT. WALL PIPES SHALL BE USED WHEREVER PIPING PASSES FROM A STRUCTURE TO BACKFILL UNLESS INDICATED OTHERWISE.
5. ALL FLEXIBLE CONNECTORS AND COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST PROTECTION AS SPECIFIED UNLESS OTHERWISE NOTED. THRUST PROTECTION SHALL BE ADEQUATE FOR 110% OF TEST PRESSURES SPECIFIED.
6. SYMBOLS, LEGENDS AND PIPE USE IDENTIFICATIONS SHOWN SHALL BE FOLLOWED THROUGHOUT THE DRAWINGS WHEREVER APPLICABLE.
7. ALL BURIED PIPING SPECIFIED TO BE PRESSURE TESTED SHALL BE PROVIDED WITH THRUST RESTRAINTS AS REQUIRED TO PROPERLY SUPPORT THE PIPES UNDER TEST PRESSURE AT ALL DIRECTION CHANGES, SIZE CHANGES, AND DEAD ENDS UNLESS OTHERWISE NOTED. SEE THRUST RESTRAINT DETAILS (DETAIL SHEETS) AND NOTES ON THIS SHEET. ALL CONNECTIONS TO EXISTING PIPE SHALL BE MADE WITH RETAINER GLANDS.
8. NUMBER AND LOCATION OF UNIONS SHOWN ON DRAWINGS IS ONLY APPROXIMATE. PROVIDE UNIONS UPSTREAM AND DOWNSTREAM OF ALL VALVES AND EQUIPMENT TO FACILITATE CONVENIENT REMOVAL.
9. WHERE A GROOVED END COUPLING IS SHOWN, IT SHALL BE THE RIGID JOINT TYPE, UNLESS OTHERWISE SPECIFIED. WHERE A FLANGED COUPLING ADAPTER IS SHOWN A STANDARD FLANGE SHALL BE JOINED TO THE COUPLING ADAPTER.
10. ALL PIPELINES LEAVING STRUCTURES SHALL INCORPORATE FLEXIBILITY FEATURES AS REQUIRED IN THE SPECIFICATIONS. IN SOME CASES, PIPING JOINTS OUTSIDE FACILITIES ARE SHOWN ON DRAWINGS. PIPING FLEXIBILITY FEATURES SHALL BE INCORPORATED AS SPECIFIED REGARDLESS OF WHETHER OR NOT THEY ARE SHOWN ON A DRAWING.
11. ALL PROCESS PIPING IS TO BE LABELED IN ACCORDANCE WITH ASME A131 AND SECTION 09900 OF THE SPECIFICATIONS.
12. VALVE SYMBOLS SHOWN ON THIS SHEET ARE APPLICABLE TO STANDARD DETAILS

PEACHTREE CREEK SOUTH FORK
RELIEF STORAGE AND PUMPING STATION

CITY OF ATLANTA
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:	DESIGNER:	CHECKER:
KB	PS	VK

SHEET TITLE
PROCESS
00 - GENERAL
LEGEND

SHEET NO. D0-001 REV. 0