## INSTRUMENT TYPE IDENTIFICATION LETTERS

THIS TABLE APPLIES ONLY TO THE FUNCTIONAL IDENTIFICATION OF INSTRUMENTS

| | FIRST LETTER | | SUCCEEDING LETTERS | | |
|---|---|---|---|---|---|
| | MEASURED OR INITIATING VARIABLE | MODIFIER | READOUT OR PASSIVE FUNCTION | OUTPUT FUNCTION | MODIFIER |
| A | ANALYSIS | ANALOG | ALARM | | |
| B | BURNER FLAME | | USER'S CHOICE | USER'S CHOICE | USER'S CHOICE |
| C | CONDUCTIVITY (ELECTRICAL) | | | CONTROL | |
| D | DENSITY (MASS) OR SPECIFIC GRAVITY | DIFFERENTIAL OR DIGITAL | | | |
| E | VOLTAGE (EMF) | | PRIMARY ELEMENT | | |
| F | FLOW RATE | RATIO (FRACTION) | | | |
| G | GAGING (DIMENSIONAL) | | GLASS | | |
| H | HAND (MANUALLY INITIATED) | | | | HIGH |
| I | CURRENT (ELECTRICAL) | | INDICATE OR INPUT | | |
| J | POWER | SCAN | | | |
| K | TIME OR TIME SCHEDULE | | | CONTROL STATION | |
| L | LEVEL | | LIGHT (PILOT) | | LOW |
| M | MOISTURE OR HUMIDITY | | | | MIDDLE OR INTERMEDIATE |
| N | USER'S CHOICE | | USER'S CHOICE | USER'S CHOICE | USER'S CHOICE |
| O | USER'S CHOICE | | ORIFICE (RESTRICTION) | | |
| P | PRESSURE OR VACUUM | | POINT (TEST CONNECTION) | | |
| Q | QUANTITY OR EVENT | INTEGRATE OR TOTALIZE | | | |
| R | RADIOACTIVITY | RELIEF | RECORD OR PRINT | | |
| S | SPEED OR FREQUENCY | SAFETY | | SWITCH | |
| T | TEMPERATURE | | | TRANSMIT | |
| U | MULTIVARIABLE | | MULTIFUNCTION | MULTIFUNCTION | MULTIFUNCTION |
| V | VIBRATION | | | VALVE, DAMPER OR LOUVER | |
| W | WEIGHT OR FORCE | | WELL | | |
| X | UNCLASSIFIED | | UNCLASSIFIED | UNCLASSIFIED | UNCLASSIFIED |
| Y | USER'S CHOICE | | | RELAY OR COMPUTE | |
| Z | POSITION | | | DRIVE, ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT | |

## MISCELLANEOUS ABBREVIATIONS

| | | | |
|---|---|---|---|
| I/P | CURRENT TO PNEUMATIC CONVERTER | DO | DISSOLVED OXYGEN |
| E/I | VOLTAGE TO CURRENT CONVERTER | H2S | HYDROGEN SULFIDE |
| Σ | ADD OR TOTALIZE | O2 | OXYGEN |
| √ | SQUARE ROOT | ORP | OXIDATION-REDUCTION POTENTIAL |
| X | MULTIPLY | pH | HYDROGEN ION CONCENTRATION |
| ÷ | DIVIDE | LP | LOCAL PANEL |
| > | HIGH SELECT | VFD | VARIABLE FREQUENCY DRIVE |
| MV | MEASURED VARIABLE | △ | DIFFERENCE |
| < | LOW SELECT | I/O | INPUT / OUTPUT |
| S.P. | SET POINT | ER | ELECTRICAL ROOM |
| PLC | PROGRAMMABLE LOGIC CONTROLLER | EFF | EFFLUENT |
| f(x) | CHARACTERISTIC | LEL | LOWER EXPLOSIVE LIMIT |
| P | PROPORTIONAL CONTROL MODE | DW | DEWATERING |
| D | DERIVATIVE | OC | ODOR CONTROL |
| ∫ | INTEGRAL CONTROL MODE | TSS | TOTAL SUSPENDED SOLIDS |
| | | WW | WASTE WATER |

## HAND SWITCH POSITION SYMBOLS

(UNLABELLED SWITCHES ARE TO BE ON-OFF)

| | | | | | |
|---|---|---|---|---|---|
| A | AUTOMATIC | R | RUN OR REMOTE | FSR | FORWARD / STOP / REVERSE |
| C | CLOSE | R/O/A | RUN / OFF / AUTO | TSM | THRU / STOP / MIX |
| E-STOP | EMERGENCY STOP | S/S | START / STOP | OSF | OFF / SLOW / FAST |
| F | FAST OR FORWARD | SBY | STANDBY | OTC | OPEN / TRAVEL / CLOSE |
| FNR | FORWARD / NEUTRAL / REVERSE | F/R | FORWARD / REVERSE | O/C/A | OPEN / CLOSE / AUTO |
| H | HAND | L/R | LOCAL / REMOTE | NIR | NOT IN REMOTE |
| J | JOG | L/S/R | LOCAL / STOP / REMOTE | R/O/R | RUN / OFF / REMOTE |
| L | LOCAL | HOR | HAND-OFF-REMOTE | | |
| M | MANUAL | HOA | HAND-OFF-AUTO | | |
| O | OPEN OR OFF | OSC | OPEN / STOP / CLOSE | | |

## SYMBOLS

GATE VALVE – N.O.
GATE VALVE – N.C.
BUTTERFLY VALVE – N.O.
BUTTERFLY VALVE – N.C.
BALL VALVE – N.O.
BALL VALVE – N.C.
CHECK VALVE
BALL CHECK VALVE
PLUG VALVE – N.O.
PLUG VALVE – N.C.
GLOBE VALVE
PINCH VALVE
ANTI-SIPHON VALVE
PRESSURE OR SURGE RELIEF VALVE
AIR RELIEF OR AIR VACUUM VALVE
PRESSURE REGULATING VALVE
SOLENOID VALVE
VARIABLE FREQUENCY DRIVE
MOTOR STARTER
INTERLOCK LOGIC
MOTOR OPERATOR
SOLENOID OPERATOR
HYDRAULIC OPERATOR
PULSATION DAMPENER
ACOUSTIC SIGNAL
AIR FILTER/DUST COLLECTOR

BLOWER
DRAIN
END CAP
PIPE INSULATION
SLIDE GATE / CHANNEL GATE
EXPANSION JOINT
SUBMERSIBLE PUMP
HYDROSTATIC LEVEL TRANSMITTER
CALIBRATION STANDPIPE
SILENCER
FLEXIBLE HOSE
FLOAT SWITCH
PIPE REDUCER
STRAINER
HYDRAULIC CONTROL LINES
ELECTRIC INSTRUMENT LINES
EXISTING EQUIPMENT
PNEUMATIC SIGNAL
PROCESS FLOW
CAPILLARY TUBING
INTERNAL SYSTEM LINK SIGNAL

## INSTRUMENT SYMBOLS

TYPE — HS
LOOP NUMBER — 015
L/R — MODIFIER

REAR PANEL MOUNTED
FIELD MOUNTED
FRONT PANEL MOUNTED

COMPUTER CONTROL SYSTEM CONFIGURABLE FUNCTION (NOT DISPLAYED ON CRT)
COMPUTER CONTROL SYSTEM STATUS AND ALARMS INDICATION
COMPUTER CONTROL SYSTEM CONFIGURABLE FUNCTION (DISPLAYED ON CRT)

017 — SPECIFIC LOOP NUMBER
012 — DUPLICATE LOOP IDENTIFICATION SYMBOL
REFERENCE LOOP NUMBER

## PLC OR DCS INPUT/OUTPUT SYMBOLS

DISCRETE INPUT
DISCRETE OUTPUT
ANALOG INPUT
ANALOG OUTPUT

## SCREENINGS / WAP CONTROL PANEL LEGEND

| TAG | DESCRIPTION | TAG | DESCRIPTION | TAG | DESCRIPTION | TAG | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| ESTP 10.1.1A | PUSHBUTTON – PANEL MOUNTED<br>EMERGENCY STOP<br>MUSHROOM HEAD, PUSH-PULL TYPE | KK 10.1.1A | SETPOINT<br>SCREEN – OFF-DELAY TIME<br>SETPOINT: 10 SEC. RANGE: 1-60 SEC. | ESTP 10.1.1A | PUSHBUTTON – PANEL<br>EMERGENCY STOP<br>MUSHROOM HEAD, PUSH-PULL TYPE | ETM 10.1.1 | ELAPSED TIMER METER<br>SCREEN RUN TIME |
| ESTP 10.1.1B ** | PUSHBUTTON – FIELD MOUNTED<br>EMERGENCY STOP<br>MUSHROOM HEAD, PUSH-PULL TYPE | KK 10.1.1B | SETPOINT<br>SCREEN – REPEAT CYCLE OFF TIME<br>SETPOINT: 60 MIN. RANGE: 1-180 MIN. | ESTP 10.1.1B ** | PUSHBUTTON<br>EMERGENCY STOP<br>MUSHROOM HEAD, PUSH-PULL TYPE | LI 10.1.1 | LEVEL INDICATOR |
| FOR 10.1.1A | SELECTOR SWITCH – PANEL MOUNTED<br>SCREEN FOR-OFF-REV<br>FOR CAN BE LOCATED IN PANEL OR LCS* | KK 10.1.1C | SETPOINT<br>SCREEN – FAULT DWELL TIME<br>SETPOINT: 5 SEC. RANGE: 1-10 SEC. | FOR 10.1.1A | SELECTOR SWITCH – PANEL MOUNTED<br>PRESS FOR-OFF-REV<br>FOR CAN BE LOCATED IN PANEL OR LCS* | YA 10.1.1A | ALARM INDICATION<br>SCREEN ALARM |
| FOR 10.1.1B | SELECTOR SWITCH – FIELD MOUNTED<br>SCREEN FOR-OFF-REV<br>FOR CAN BE LOCATED IN PANEL OR LCS* | KK 10.1.1D | SETPOINT<br>SCREEN – REVERSE RUN TIME<br>SETPOINT: 25 SEC. RANGE: 1-180 SEC. | FOR 10.1.1B | SELECTOR SWITCH – FIELD MOUNTED<br>PRESS FOR-OFF-REV<br>FOR CAN BE LOCATED IN PANEL OR LCS* | ETM 10.1.1 | ELAPSED TIMER METER<br>PRESS RUN TIME |
| HOA 10.1.1 | SELECTOR SWITCH<br>SCREEN HAND-OFF-AUTO<br>HOA CAN BE LOCATED IN PANEL OR LCS* | KK 10.1.1E | SETPOINT<br>SCREEN – FAULT CYCLE COUNTER<br>SETPOINT: 1 CYCLES. RANGE: 1-5 CYCLES | HOA 10.1.1 | SELECTOR SWITCH<br>PRESS HAND-OFF-AUTO<br>HOA CAN BE LOCATED IN PANEL OR LCS* | YA 10.1.1A | ALARM INDICATION<br>PRESS ALARM |
| HOR 10.1.1 | SELECTOR SWITCH<br>SCREEN HAND-OFF-REMOTE<br>HOA CAN BE LOCATED IN PANEL OR LCS* | KK 10.1.1F ** | SETPOINT<br>SCREEN – ZERO MOTION ON-DELAY TIMER<br>SETPOINT: 15 SEC. RANGE: 1-999 SEC. | HOA 10.10.3 | SELECTOR SWITCH<br>PRESS ZONE WASH HAND-OFF-AUTO<br>HOA CAN BE LOCATED IN PANEL OR LCS* | YC 10.1.1 | PRESS CALL TO RUN<br>REVERSING MOTOR STARTER – STD. |
| LE 10.10.1A | CHANNEL<br>ULTRASONIC LEVEL TRANSMITTER | KK 10.1.1G | SETPOINT<br>SCREEN – START LEVEL<br>SETPOINT: *** | HOA 10.10.5 | SELECTOR SWITCH<br>PAN WASH HAND-OFF-AUTO<br>HOA CAN BE LOCATED IN PANEL OR LCS* | YL-W 10.1.1A | INDICATOR LIGHT – WHITE<br>CONTROL POWER ON |
| LIT 10.10.1 | CHANNEL<br>ULTRASONIC LEVEL TRANSMITTER | KK 10.1.1F | SETPOINT<br>SCREEN – HIGH LEVEL<br>SETPOINT: *** | HOR 10.1.1 | SELECTOR SWITCH<br>PRESS HAND-OFF-REMOTE<br>HOA CAN BE LOCATED IN PANEL OR LCS* | YL-R 10.1.1B | INDICATOR LIGHT – RED<br>PRESS RUNNING |
| MTR 10.1.1 | SCREEN<br>DRIVE MOTOR | KK 10.1.1A ** | SETPOINT<br>PRESS – SCREEN ACCUMULATED RUN TIME<br>SETPOINT: 30 SEC, RANGE: 1-999 SEC | HOR 10.10.3 | SELECTOR SWITCH<br>PRESS ZONE WASH HAND-OFF-REMOTE<br>HOA CAN BE LOCATED IN PANEL OR LCS* | YL-A 10.1.1C | INDICATOR LIGHT – AMBER<br>PRESS OVERLOAD |
| RST 10.1.1 | PUSHBUTTON<br>SYSTEM RESET<br>FLUSH HEAD, MOMENTARY | KK 10.1.1A ** | SETPOINT<br>PRESS – SCREEN STEP COUNTER<br>SETPOINT: 5, RANGE: 1-99 | HOR 10.10.5 | SELECTOR SWITCH<br>PAN WASH HAND-OFF-REMOTE<br>HOA CAN BE LOCATED IN PANEL OR LCS* | YN 10.1.1 ** | CURRENT MONITOR<br>PRESS SCREW HIGH CURRENT |
| YC 10.1.1 | SCREEN CALL TO RUN<br>VARIABLE FREQUENCY DRIVE – STANDARD | KK 10.1.1B | SETPOINT<br>PRESS – WASH CYCLE DURATION TIME<br>SETPOINT: 80 SEC, RANGE: 1-600 SEC | MTR 10.1.1 | PRESS<br>DRIVE MOTOR | YN 10.1.1A | REMOTE INDICATION<br>PRESS RUNNING |
| YL-A 10.1.1C | INDICATOR LIGHT – AMBER<br>SCREEN OVERLOAD | KK 10.1.1C | SETPOINT<br>PRESS – NORMAL WASH RUN TIME<br>SETPOINT: 5 SEC, RANGE: 1-60 SEC | RST 10.1.1 | PUSHBUTTON<br>SYSTEM RESET<br>FLUSH HEAD, MOMENTARY | YN 10.1.1B | REMOTE INDICATION<br>PRESS OVERLOAD |
| YL-A 10.1.1D ** | INDICATOR LIGHT – AMBER<br>HIGH LEVEL | KK 10.1.1D | SETPOINT<br>PRESS – FORWARD DWELL TIME<br>SETPOINT: 5 SEC, RANGE: 1-60 SEC | SOV 10.10.3 | SOLENOID VALVE<br>PRESS ZONE WASH | | |
| YL-R 10.1.1B | INDICATOR LIGHT – RED<br>SCREEN RUNNING | KK 10.1.1E | SETPOINT<br>PRESS – INTERRUPT ON-DELAY TIME<br>SETPOINT: 30 SEC, RANGE: 30-600 SEC | SOV 10.10.5 | SOLENOID VALVE<br>PAN WASH | | |
| YL-W 10.1.1A | INDICATOR LIGHT – WHITE<br>CONTROL POWER ON | KK 10.1.1F | SETPOINT<br>PRESS – INTERRUPT OFF-DELAY TIME<br>SETPOINT: 30 SEC, RANGE: 5-120 SEC | SOV 10.10.5 | SOLENOID VALVE<br>PAN WASH | | |
| YN 10.1.1 | CURRENT MONITOR<br>SCREEN HIGH CURRENT | KK 10.1.1G | SETPOINT<br>PRESS – FAULT DWELL TIME<br>SETPOINT: 2 SEC, RANGE: 1-10 SEC | SOV 10.10.5 | SOLENOID VALVE<br>PAN WASH | | |
| YN 10.1.1A | REMOTE INDICATION<br>SCREEN RUNNING | KK 10.1.1H | SETPOINT<br>PRESS – REVERSE RUN TIME<br>SETPOINT: 2 SEC, RANGE: 1-10 SEC | TS 10.1.1 | TEMPERATURE SWITCH<br>HEAT TRACING THERMOSTAT | | |
| YN 10.1.1B | REMOTE INDICATION<br>SCREEN OVERLOAD | KK 10.1.1I | SETPOINT<br>PRESS – ATTEMPTS TO CLEAR FAULT<br>SETPOINT: 1, RANGE: 1-5 | | | | |
| YN 10.1.1C | REMOTE INDICATION<br>HIGH LEVEL | KK 10.10.3A | SETPOINT<br>PRESS ZONE WASH – ON TIME<br>SETPOINT: 5 SEC, RANGE: 1-60 SEC | | | | |
| ZS 10.10.3 | PROXIMITY SWITCH<br>SCREEN OVERTORQUE | KK 10.10.3B | SETPOINT<br>PRESS ZONE WASH – OFF TIME<br>SETPOINT: 2 SEC, RANGE: 1-60 SEC | | | | |
| | | KK 10.10.5A | SETPOINT<br>PAN WASH – RUN TIME<br>SETPOINT: 2 SEC, RANGE: 1-60 SEC | | | | |

## SCREENINGS SCR-401/501 & SCREENINGS WASH AND PRESS WAP-801/901 SEQUENCE OF OPERATION

CONTROL POWER ON-DELAY:
EACH TIME THE CONTROL PANEL POWER SUPPLY IS CYCLED, THE PLC WILL ALLOW ALL SOLID STATE DEVICES TO BECOME FULLY ENERGIZED BEFORE ENABLING THE CONTROL POWER CIRCUIT.

SCREEN MODES OF OPERATION:
HAND: WHEN THE SCREEN SELECTOR IS IN THE HAND POSITION THE SCREEN WILL CYCLE ON AN OFF WITH THE SCREEN FOR-OFF-REV SELECTOR.
FOR: WHEN THE SCREEN SELECTOR IS IN THE HAND POSITION AND THE FORWARD DIRECTION IS SELECTED, THE SCREEN WILL RUN CONTINUOUSLY IN THE FORWARD DIRECTION.
REV: WHEN THE SCREEN SELECTOR IS IN THE HAND POSITION AND THE REVERSE DIRECTION SELECTED, THE SCREEN WILL RUN IN THE REVERSE DIRECTION. THIS SWITCH WILL SPRING RETURN FROM REV TO OFF.
AUTO: WHEN THE SCREEN SELECTOR IS IN THE AUTO POSITION THE SCREEN WILL BEGIN TO RUN DUE TO ANY ONE OF THE FOLLOWING CONDITIONS:
- LEVEL RAISED AND REMAINED ABOVE THE START LEVEL SETPOINT FOR THE TIME SET IN THE PLC
- SCREEN OFF TIME HAS REACHED MAXIMUM TIME SET IN PLC
- SYSTEM RESET PUSHBUTTON PRESSED AND HELD FOR TIME SET IN PLC

ONCE A CYCLE IS STARTED THE SCREEN WILL RUN CONTINUOUSLY IN THE FORWARD DIRECTION UNTIL THE LEVEL DROPS BELOW THE START LEVEL SETPOINT, PER THE TIME SETTING SET IN THE SCREEN OFF DELAY TIMER.

SCREEN HIGH SPEED (OPTIONAL):
THE SCREEN WILL OPERATE AT HIGH SPEED ONCE THE LEVEL REACHES THE HIGH LEVEL SETPOINT. THE SCREEN WILL CONTINUE TO OPERATE AT HIGH SPEED UNTIL THE LEVEL DROPS BELOW THE START LEVEL SETPOINT.

NOTE: HIGH SPEED OPERATION WILL ONLY TAKE PLACE WHEN OPERATING IN THE FORWARD DIRECTION.

EMERGENCY STOP:
WHEN ANY OF THE E-STOP PUSHBUTTONS ARE PRESSED THE SCREEN WILL STOP IMMEDIATELY, THE CONTROL POWER ON LIGHT WILL DE-ENERGIZE. TO RESET, INSURE ALL E-STOPS ARE ENABLED, AND PRESS THE SYSTEM RESET PUSHBUTTON.

NOTE: IF THE POWER TO THE PANEL IS INTERRUPTED, THE EQUIPMENT MAY CYCLE IMMEDIATELY ONCE THE POWER IS RESTORED. PRESSING THE SYSTEM RESET PUSHBUTTON AFTER A POWER OUTAGE WILL NOT BE REQUIRED.

OIU – INFORMATION:
1. THE OIU WILL DISPLAY THE ELAPSED MOTOR RUN TIME.
2. ALL ADJUSTABLE SETPOINTS CAN BE ACCESSED AND ADJUSTED THROUGH THE OIU.
3. THE PRESENT FAULT WILL BE DISPLAYED ON THE OIU.
4. THE HISTORY OF ALL PAST FAULTS CAN BE ACCESSED THROUGH THE OIU.

FAULTS:
SCREEN MOTOR OVERLOAD – WHEN THE SCREEN MOTOR OVERLOAD IS TRIPPED THE SCREEN WILL STOP IMMEDIATELY AND THE SCREEN FAULT LIGHT WILL BE ENERGIZED.

SCREEN OVERLOAD SHUTDOWN – IF HIGH CURRENT IS MEASURED WHILE THE SCREEN IS OPERATING IN THE FORWARD DIRECTION, THEN THE SCREEN WILL TRY TO CLEAR THE FAULT AS DETAILED BELOW IN THE JAM LOGIC SEQUENCE. IF THE JAM LOGIC SEQUENCE IS UNSUCCESSFUL THEN THE SCREEN WILL SHUTDOWN IMMEDIATELY AND THE SCREEN FAULT PILOT LIGHT WILL BE ENERGIZED.

SCREEN HIGH TORQUE – IF HIGH TORQUE IS MEASURED WHILE THE SCREEN IS OPERATING IN THE FORWARD DIRECTION, THEN THE SCREEN WILL TRY TO CLEAR THE FAULT AS DETAILED BELOW IN THE JAM LOGIC SEQUENCE. IF THE JAM LOGIC SEQUENCE IS UNSUCCESSFUL THEN THE SCREEN WILL SHUTDOWN IMMEDIATELY AND THE SCREEN FAULT PILOT LIGHT WILL BE ENERGIZED.

SCREEN CALL FOR NOT RUNNING – IF THE SCREEN IS READY AND PLC HAS CALLED THE SCREEN TO RUN BUT DOES NOT RECEIVE RUNNING CONFIRMATION WITHIN 3 SECONDS. SCREEN WILL STOP IMMEDIATELY AND THE SCREEN FAULT LIGHT WILL BE ENERGIZED.

JAM LOGIC:
WHEN A FAULT CONDITION OCCURS THAT REQUIRES THE JAM LOGIC SEQUENCE, THE SCREEN WILL STOP AND DWELL, RUN IN REVERSE, STOP AND DWELL, THEN CONTINUE ITS CYCLE. IF THE FAULT CONDITION PERSISTS, THE SCREEN WILL CONTINUE TO TRY AND CLEAR THE FAULT. IF THE NUMBER OF ATTEMPTS TO CLEAR THE FAULT EXCEEDS THE NUMBER ALLOWED WITHIN 5 MINUTES, THEN THE SCREEN WILL SHUTDOWN IMMEDIATELY AND THE SCREEN FAULT PILOT LIGHT WILL BE ENERGIZED. NOTE: IF THE FAULT CONDITION OCCURS WHILE THE SCREEN IS OPERATING IN THE REVERSE DIRECTION OR WHILE IN HAND, THE SCREEN WILL SHUTDOWN IMMEDIATELY AND THE SCREEN FAULT PILOT LIGHT WILL BE ENERGIZED.

ALL OF THE ABOVE FAULTS CAN BE RESET BY PRESSING THE SYSTEM RESET PUSHBUTTON.

HIGH LEVEL LIGHT (OPTIONAL) – IF THE LEVEL RAISES ABOVE THE HIGH LEVEL SETPOINT SET IN THE ULTRASONIC LEVEL CONTROLLER, THE HIGH LEVEL LIGHT WILL BE ENERGIZED. THE LIGHT WILL REMAIN ENERGIZED UNTIL THE LEVEL DROPS BELOW THE HIGH LEVEL SETPOINT.

4/13/17
APPROVED:
Richard A. Alaimo
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 13195

| REVISIONS | DATE | BY |
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GRIT CHAMBER UPGRADE

PIPING AND INSTRUMENTATION LEGEND

SCALE: NONE

CLIENT: WOODBRIDGE TOWNSHIP

PROJECT LOCATION: WOODBRIDGE TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

PROJECT NO.: B-0726-0023-000

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DATE: APRIL 2017
DESIGNED BY: LMG
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CHECKED BY:
DEPT. HEAD:

SHEET I1

FILE NO.:


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