SYMBOL & ABBREVIATIONS GENERAL NOTES ABBREVIATION DESCRIPTION SYMBOL ABOVE FINISHED FLOOR _ ABOVE HUNG CEILING BACK FLOW PREVENTOR _ VENT THROUGH ROOF FRESH AIR INTAKE FLOOR SINK REDUCED PRESSURE ZONE — BFP _ DOUBLE CHECK VALVE - BFP _ TYP TYPICAL H.W. HTR | HOT WATER HEATER 3-WAY VALVE BUTTERFLY VALVE 2-WAY VALVE PLUG VALVE SOLENOID VALVE GATE VALVE GLOBE VALVE CHECK VALVE OS&Y GATE VALVE BALL VALVE $| \bigcirc |$ CIRCUIT SETTER MANUAL AIR VENT \searrow T&P RELIEF VALVE PRESSURE REDUCING VALVE TEE DOWN -ELBOW DOWN <u>____</u> TEE UP ELBOW UP \bigcirc — PIPE CAP E----CLEAN OUT DECK PLATE 1 WALL CLEAN OUT CONSTRUCTION. FLOOR CLEAN OUT CONCENTRIC REDUCER ECCENTRIC REDUCER STRAINER |XX|FLEXIBLE CONNECTION FLOW ARROW PRESSURE GAGE PUMP THERMOMETER UNION --EXISTING TO REMAIN REMOVE AND RELOCATE NEW WORK NEW EXISTING TO BE REMOVED _____ COLD WATER CW HOT WATER HOT WATER RECIRCULATION _____ VENT _____ V ____ WASTE LINE ____ W ____ _____ S ____ SANITARY ____ L ____ LDR LEADER STORM DRAINAGE ——PD—— PUMP DISCHARGE

- THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
- 2. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- 3. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- 4. CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
- PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE. AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
- 6. ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.
- PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
- 8. PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥3" AND 1/4" PER FOOT FOR PIPING $\leq 2\frac{1}{2}$ ".
- 9. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- 10. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- 11. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.
- 12. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- 13. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- 14. PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS WHERE INDICATED ON PLAN. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.
- 15. NEW PIPING LAYOUT IS PREDICATED ON RECORD DRAWING DATA OF EXISTING RISERS DRAWINGS. MODIFICATIONS TO THE LAYOUT MAY BE REQUIRED DUE TO DIFFERENT ACTUAL CONDITIONS, OBSTRUCTIONS, INTERFERENCES, ETC.
- 16. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR
- 17. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.

EQUIPMENT NOTES

- 1.) <u>Domestic hot water heater, hwh-1</u> shall be electric ao-smith XI model DRE-52-6; PROVIDING 25 GPH RECOVERY AT 40°-140°, 6kW INPUT, 50 GALLONS NOMINAL STORAGE CAPACITY, 55" HIGH, 27" DIAMETER, 260 POUNDS SHIPPING WEIGHT. PROVIDE CONDENSATE NEUTRALIZATION SYSTEM & P-TRAP. FURNISH DISCONNECT SWITCH FOR EACH HOT WATER HEATER TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 2.) DOMESTIC HOT WATER RE-CIRCULATION PUMP, HWC-1, TO BE BASED ON BELL & GOSSETT MODEL NBF-18S, 100% LEAD FREE, 90 WATTS, 115V-1 PHASE-60 HERTZ, 0.74 FULL LOAD AMPS, 3000 RPM AND 5 GPM @ 10 FEET HEAD. FURNISH DISCONNECT SWITCH TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR.

EQUIPMENT NOTES CONTINUED

- 5.) <u>Gasoline tank Maintenance Building</u>: Shall be enviro-safe fireguard 500 GALLON DOUBLE-WALL ABOVEGROUND FUEL TANK WITH INTEGRAL FUEL DISPENSING SYSTEM. PROVIDE STEEL SUPPORT SADDLES, LIFTING LUGS, 6" EMERGENCY VENT, 2" STACK VENT, 818 CLOCK GAUGE WITH FLOAT, 7.5 GALLON OVERSPILL WITH LOCKABLE CAP, SPIN ON FILTER AND HOUSING ASSEMBLY, INTERSTITIAL LEAK GAUGE, STEP LADDER AND PLATFORM, 16" MAN-WAY, BRACKET, PIPING BALL VALVE AND ANTI—SIPHON VALVE, SUCTION LINE FOOT—VALVE 6" FROM BOTTOM TANK, FILL—RITE 711VA PUMP 1" ASSEMBLY METER AND FILTER, 1" AUTOMATIC SHUT-OFF NOZZLE, SWIVEL. & BREAKAWAY 18' X 1" HOSE. TANK SHALL BE PROVIDED WITH EPOXY PRIMER & ACRYLIC POLYURETHANE COATING, UL2085 LABELED AND LISTED, NFPA-30-30A TESTED, 2-HOUR FIRE TESTED, IMPACT AND BALLISTIC TESTED. 60" DIAMETER X 100" LONG; DRY WEIGHT: 3,100 LBS. PROVIDE PNEUMERCATOR LS-600 LEVEL SWITCHES & MP 450S LEVEL GAUGE PROBES. PROVIDE COMPLETE FIRE SUPPRESSION SYSTEM FOR COVERAGE OF THE TANK AND DISPENSING SYSTEM. COORDINATE WITH ARCHITECTURAL STRUCTURE ABOVE TANK.
- 6.) <u>Gasoline tank Cart Storage</u>: Shall be enviro—safe fireguard 500 gallon DOUBLE-WALL ABOVEGROUND FUEL TANK WITH INTEGRAL FUEL DISPENSING SYSTEM. PROVIDE STEEL SUPPORT SADDLES, LIFTING LUGS, 6" EMERGENCY VENT, 2" STACK VENT, 818 CLOCK GAUGE WITH FLOAT, 7.5 GALLON OVERSPILL WITH LOCKABLE CAP, SPIN ON FILTER AND HOUSING ASSEMBLY, INTERSTITIAL LEAK GAUGE, STEP LADDER AND PLATFORM, 16" MAN-WAY, BRACKET, PIPING BALL VALVE AND ANTI-SIPHON VALVE, SUCTION LINE FOOT—VALVE 6" FROM BOTTOM TANK, FILL—RITE 711VA PUMP 1" ASSEMBLY METER AND FILTER, 1" AUTOMATIC SHUT-OFF NOZZLE, SWIVEL, & BREAKAWAY 18' X 1" HOSE. TANK SHALL BE PROVIDED WITH EPOXY PRIMER & ACRYLIC POLYURETHANE COATING, UL2085 LABELED AND LISTED, NFPA-30-30A TESTED, 2-HOUR FIRE TESTED, IMPACT AND BALLISTIC TESTED. 60" DIAMETER X 100" LONG; DRY WEIGHT: 3,100 LBS. PROVIDE PNEUMERCATOR LS-600 LEVEL SWITCHES & MP 450S LEVEL GAUGE PROBES. PROVIDE COMPLETE FIRE SUPPRESSION SYSTEM FOR COVERAGE OF THE TANK AND DISPENSING SYSTEM. COORDINATE WITH ARCHITECTURAL STRUCTURE ABOVE TANK.
- 7.) <u>diesel tank:</u> shall be enviro—safe fireguard 500 gallon double—wall ABOVEGROUND FUEL TANK WITH INTEGRAL FUEL DISPENSING SYSTEM. PROVIDE STEEL SUPPORT SADDLES, LIFTING LUGS, 6" EMERGENCY VENT, 2" STACK VENT, 818 CLOCK GAUGE WITH FLOAT, 7.5 GALLON OVERSPILL WITH LOCKABLE CAP, SPIN ON FILTER AND HOUSING ASSEMBLY, INTERSTITIAL LEAK GAUGE, STEP LADDER AND PLATFORM, 16" MAN-WAY, BRACKET, PIPING BALL VALVE AND ANTI-SIPHON VALVE, SUCTION LINE FOOT-VALVE 6" FROM BOTTOM TANK, FILL-RITE 711VA PUMP 1" ASSEMBLY METER AND FILTER, 1" AUTOMATIC SHUT-OFF NOZZLE, SWIVEL, & BREAKAWAY 18' X 1" HOSE. TANK SHALL BE PROVIDED WITH EPOXY PRIMER & ACRYLIC POLYURETHANE COATING, UL2085 LABELED AND LISTED, NFPA-30-30A TESTED, 2-HOUR FIRE TESTED, IMPACT AND BALLISTIC TESTED. 60" DIAMETER X 100" LONG; DRY WEIGHT: 3,100 LBS. PROVIDE PNEUMERCATOR LS-600 LEVEL SWITCHES & MP 450S LEVEL GAUGE PROBES. PROVIDE COMPLETE FIRE SUPPRESSION SYSTEM FOR COVERAGE OF THE TANK AND DISPENSING SYSTEM. COORDINATE WITH ARCHITECTURAL STRUCTURE ABOVE TANK.
- 8.) <u>fuel oil storage tank</u>: shall be enviro—safe fireguard 1,000 gallon DOUBLE-WALL ABOVEGROUND FUEL OIL STORAGE TANK. PROVIDE STEEL SUPPORT SADDLES, LIFTING LUGS, 6" EMERGENCY VENT, 2" STACK VENT, 818 CLOCK GAUGE WITH FLOAT, 7.5 GALLON 4" ALUMINUM OVERSPILL CONTAINER 179 SERIES WITH HINGED STYLE FILL CAP, MEMCO 1" RETURN LINE, 1.5" PICKUP WITH DROP TUBE AND FOOT VALVE 6" FROM BOTTOM TANK, INTERSTITIAL LEAK GAUGE, STEP LADDER WITH PLATFORM, & 16" MAN-WAY. TANK SHALL BE PROVIDED WITH EPOXY PRIMER & ACRYLIC POLYURETHANE COATING, UL2085 LABELED AND LISTED, NFPA-30-30A TESTED, 2-HOUR FIRE TESTED, IMPACT AND BALLISTIC TESTED. 56" DIAMETER X 150" LONG; DRY WEIGHT: 5,800 LBS. PROVIDE PNEUMERCATOR LS-600 LEVEL SWITCHES & COVERAGE OF THE TANK. COORDINATE WITH ARCHITECTURAL STRUCTURE ABOVE TANK.
- 9.) TANK LEVEL MONITORING SYSTEM: SHALL BE BASED ON PNEUMERCATOR TMS3000 SERIES MODULAR MULTI-TANK GAUGING SYSTEM WITH EPA COMPLIANT IN TANK AND SECONDARY CONTAINMENT LEAK DETECTION; ELECTRICAL: 115/230V/1/60. PROVIDE (1) MONITORING SYSTEM AT THE MAINTENANCE BUILDING FOR MONITORING OF THE GASOLINE, DIESEL, AND FUEL OIL TANKS. PROVIDE (1) MONITORING SYSTEM AT THE CART STORAGE BUILDING FOR MONITORING OF THE GASOLINE TANK.

CONSULTING ENGINEERS
DBA0006.00

OLA Consulting Engineers 50 Broadway, Hawthorne, New York 10532 914.747.2800 8 West 38th Street, Suite 501

olace.com

NAME

New York, NY 10018 646,849,4110

REVISION | DATE MADE APP'D REVISION NUMBER

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED AS BUILT - NO CHANGES CONTRACTOR

SIGNATURE SIGNATURE DATE TITLE WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS

NUMBER 17 - 539 **P-00**

PROJECT COORDINATOR

DIVISION OF ENGINEERING NEW GOLF CART STORAGE FACILITY
AND CLUBHOUSE UPGRADES MOHANSIC GOLF COURSE, YORKYOWN, NEW YORK DPW FILE NO.

PLUMBING SYMBOLS, ABBREVIATIONS, & NOTES

SHEET NO. 29 OF 59 SCALE: NONE DATE: 6/4/21

10-02-P-62-0

NUMBER

IT IS A VIOLATION OF NYS LAW FOR ANY PERSON TO ALTER THIS DOCUMENT IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. IF A DOCUMENT BEARING THE SEAL ON AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

IN CHARGE OF

CHECKED BY

MADE BY _____AMB