

General Notes

1. Petroleum Contractor shall furnish all items with the exception of the items furnished by Wawa.
2. Contractor shall complete and furnish all documentation as required by the Wawa representative at the time of the punch list inspection.
3. Operation is to be 24 hours, 7 days a week, attended in accordance with NFPA 30A, Chapter 4 & Chapter 9.
4. Interior E-stops at cashier positions are detailed on Building Electrical plans, in addition to exterior E-stops shown on these plans.
5. Wawa to provide the required labels & warnings detailed in NFPA 30A-5.2 & 9-5.5.
6. Contractor must use only manufacturer approved tools for installation of all piping & dispenser sumps. No use of hand saws, hand saws, Sonzoli, utility knives, etc. will be allowed.
7. The Petroleum Contractor will furnish and install seal off fittings for the conduit at the canopy column for connection by the General Contractor. The Petroleum Contractor will epoxy plug all seal off fittings as required in the electrical room, at the dispensers, and canopy columns.
8. Petroleum Contractor will receive all Wawa supplied equipment & will be responsible for any damage not identified to Wawa upon delivery. Petroleum Contractor to notify Wawa Project Manager within 72 hours of receiving equipment.
9. The Petroleum Contractor will be contracted to complete all tank installation, petroleum underground piping, backfill, stone subbase, fine grading & all electrical conduit rough in associated with the pump and tank within time period determined by the Wawa Project Manager. Concrete pour (for the tank area, pump islands, and canopy areas), dispenser installation & wiring will be scheduled during project with Wawa Project Manager.
10. The General Contractor will layout tank pad, canopy pad & footer locations, excavate, form & pour footings for steel canopy. Install canopy drain laterite from canopy columns to storm sewer laterals, install hose bibs at canopy area.
11. All manhole openings on the tank slab shall be installed with a 2" x 18" run crown of concrete to prevent water intrusion into the manhole.
12. All curbing surrounding tank slab shall be poured monolithic in conjunction with tank slab.

Installation
All work to be coordinated with Wawa Project Manager, General Contractor & Sub-contractors (including coordination of electrical conduit runs to the canopy & tank pads with the General Contractor).

All installation activities to be performed in strict accordance with PEI "Recommended Practices for Installation of Underground Liquid Storage Systems", PEI/RP/IO-05, PEI "Recommended Practices for Installations & Testing of Vapor Sensors", PEI/RP/00-04, or most current PEI versions, manufacturer installation manuals for all products, state & local code & the specifications & notes contained in these drawings.

Any discrepancy between these sources shall be identified & brought to attention of Wawa's representative before activity is performed for resolution.

Contractor is responsible for all local permits. Contact Wawa representative to verify that all required permits have been obtained. Contractor portions of registrations for state agencies shall be completed & given to Wawa's representative upon completion.

Excavation
All excavation to be sized to provide minimum bedding clearance & depth of burials as shown. (54" minimum from finish grade to top of tank)

Contractor to adhere to all OSHA standards for excavations. All excavations greater than 4 feet in depth are to be shored in accordance with OSHA standard (29CFR 1926.650-652). Fall Protection to be provided around tank excavation at all times in accordance w/applicable OSHA regulations.

Prior to backfill & tank installation, filter fabric shall be installed in accordance with applicable methods. Filter fabric is determined by site specific requirements & use shall be determined by Wawa Petroleum Dept.

Tanks
Tanks will be provided by Wawa & delivered to the site by the manufacturer. Contractor is responsible for scheduling delivery via Wawa's representative, including inspection of tanks. Any problems encountered should immediately be disclosed to the Wawa representative & Wawa Fuel Equipment Department before activity is performed for resolution.

All tank handling & installation is to be in strict accordance with manufacturer's installation Manual & Operating Guidelines. All checklists including shipping documents are to be completed & provided to Wawa's representative. Wawa requires the use of a crane for all tank handling activities.

Tanks shall be installed with zero slope, dead level, with fills towards curb side or as directed by Wawa's representative.

All manway bolts to be securely fastened prior to sump installation.

All brine levels to be adjusted to 1/2" after tanks have been secured with hold down water.

Tanks shall be installed, backfilled to top of tank, & sealed with water ballast the day they are delivered. Deviation from this process must be authorized by Wawa's representative. Scheduling is imperative to meet this process.

Tanks shall be UL listed (UL 106) as called for on the site specific drawing & shall be fiberglass reinforced plastic (FRP) double wall tanks as manufactured by Xerox Corporation. Installation of tanks & piping shall be in accordance with the latest edition of the installation manual as supplied by the manufacturer. Final testing the petroleum contractor shall verify manway tightness. Verify that all lights are set per manufacturer torque settings & adjust as necessary.

Backfill

Wawa recommends that all back fill is to be Pea Gravel, naturally rounded aggregate nominal 1/4" (1/8" min, 3/4" max.) in size. Pea Gravel is to be washed, free flowing, free of ice, snow and debris & conform to ASTM C-93 par. 4.1, size numbers 6 through 8 of Table 2.

When Pea Gravel is not readily available crushed stone may be used. The material is to be a mix of angular particles, sizes between 1/8" and 1/2", and no more than 5% (by weight) of the material may pass through a #8 sieve.

The Contractor will provide Wawa's representative certification from the supplier that the material conforms to ASTM C-93 & any other applicable specification.

Disposal of Excavated Material
All excavated material is to be treated as clean back fill, removed & disposed by contractor.

Wawa's representative must be notified immediately if any contaminated materials are encountered or suspected.

In the event contaminated material is encountered, such material is to be segregated by contractor & will be transported & disposed by third party.

Contractor will provide loading & credit given to Wawa for transportation & disposal.

Excavation Dewatering
Wawa will provide soils & groundwater data for site to determine if dewatering is necessary.

Contractor shall be responsible for installation of all dewatering equipment, if necessary, & shall furnish pumps with appropriate dewatering rates for use in & around the excavation to maintain as dry an excavation as possible.

Contractor shall be responsible for any required permits to discharge water to the closest available source.

In the event that these measures are not sufficient to control the dewatering, Wawa's representative shall be notified & Wawa shall secure third party services to assist in dewatering.

STEEL FITTINGS

CLASS	DIMENSIONS	MATERIAL	THREAD
Steel Pipe Nipples Class ISO/PN 20	ASTM A 753	ASTM A 53 (F & E)	ASME B1.20.1 SAME B1.6.3
Steel Pipe Nipples Class ISO/PN 40	N/A	ASTM A 53 (F & E)	ASME B1.20.1 SAME B1.6.3

Contractor shall be responsible for any required permits to discharge water to the closest available source.

In the event that these measures are not sufficient to control the dewatering, Wawa's representative shall be notified & Wawa shall secure third party services to assist in dewatering.

U.S. Conduit
All U.S. conduit shall be rigid galvanized steel. Conduit minimum bury depth is 24" per code. All junction boxes shall be class 1 div. 2 rated. All electrical conduit in sump shall include a sealed-off entering & leaving which shall be installed 6" min. above highest penetration in sump. Dispenser conduits to be installed through metal sump top conduit knockouts.

Sump Penetrations
All penetrations of the tank sumps shall be sealed with double bulkhead fittings & not to exceed 15% angle in any direction to ensure the proper installation of all bulkhead compression fittings & resultant of water tightness.

Silbance Dispenser Installation
Contractor shall install all dispensers in accordance with most current manufacturer installation practices. Strict adherence to installation guidelines should be followed at all times.

Dispenser DATA communication wiring shall be installed in separate conduit & shall be twisted pair, minimum 18 gauge, color coded for data & CRIND wiring, ISO rated 600 volts, oil & gas resistant. Wiring shall be home run from dispenser to universal distribution box (D-Box) with no splicing. (See chart below)

The dispenser communication DATA/FUEL loop shall be installed in a manner that will allow for dispensers to be sequentially on each distribution board in the Fuel loop D-box.

The dispenser communication CRIND loop shall be wired in a manner that will allow for dispensers to be on one (1) distribution board in the CRIND loop D-box.

Dispenser power wiring shall be run in separate conduit & shall be 12 AWG with home runs from dispenser to breaker panel or isolation relay. Two (2) different wires of different color to be run also, terminating in J-box at location in electrical room.

Hold Down Product
Water is to be used as hold down. Water is to be clean, free of debris & particles.

Contractor is responsible for securing and disposing of water. Tanks are to be filled to min. 90% capacity.

Prior to removing water contractor is to provide 72-hour notice to Wawa's representative. Wawa will make arrangements for delivery of product to replace water; all measures & levels of water shall be removed prior to replacing with gasoline. Verification of water removal shall be given to Wawa's representative.

Water should remain in tanks until all petroleum work is completed & tank mat is installed.

See Electrical Schedule B-5; Verify with Wawa's representative drawings by architect NOTE: Conduits to be stubbed to exterior canopy and tank pads by general contractor. Petroleum Contractor is responsible for all other work.

GRG to each canopy column for spare.
(Colony closest to street)
(1) GRG to each canopy column for lighting.
(Colony closest from store)
(2) GRG to each dispenser.
(1 power, 1 data, 1 intercom/Muzak)
(1) GRG to each dispenser. (Sump sensor)
(1) GRG to each interstitial reservoir. (Sump sensor)
(1) GRG to each STP tank containment unit.
(1 power, 1 spare)
(1) GRG to each STP tank containment unit. (Sump sensor/
Tank level magnetostatic probe)
(1) GRG to each multi-port containment unit. (Sump sensor)
(2) 1" GRG to vent stack for overfill alarm & pressure device power.

Anchoring

All tanks are to be anchored as shown on drawings. Deadman may be field constructed or prefab as available from tank manufacturer.

Contractor to use reinforced precast concrete deadman, length typically equal to the length of the tank, with anchor bolts to correspond with straps.

All tank straps must be provided by tank manufacturer & installed in strict accordance with manufacturer's instructions & spaced as directed.

Connect anchor to straps with 3/4" forged steel turnbuckles. All exposed turnbuckles & anchor bolts must be wrapped & coated with Pictchemic & protected with 1b lb. anodes per tank side.

Wire rope may not be used.

Piping
Product piping is to be 2" dia. APT XP Series in ducting. All runs are to be continuous; all joints are to be made in dispenser containment units & tank sumps only. A separate ball valve is required for each piping run. Piping connections to submersible pump to be 2" galvanized or approved stainless steel flex line.

All entry boots & fittings are to be APT product only. Risers & fitting to shear valves are to be UL listed stainless steel flexible connectors.

Pipe Testing
Testing of the secondary containment piping is required. The containment fitting in the sump is to be installed with the valve turned down. After testing, the valve is to be opened to allow drainage of the secondary piping to the sump monitor probe.

Equipment Start-Up/Purging & Calibration
Contractor shall notify Wawa representative 72 hours prior to equipment start-up. Dispenser, tank monitor & submersible pump commissioning to be performed by service vendor as selected by Wawa. Permanent electrical service to store must be installed prior to equipment start-up. Veeder Root to be operational upon gas entering the tanks.

Upon completion of equipment commissioning by service vendor, Contractor shall purge all dispensing equipment in accordance with manufacturer's standard practice. Wawa requires a minimum of 150 gallons be purged from each meter after air is removed from product lines.

Purging of air from product lines shall be accomplished using the product piping shear valve. Product shall be purged until no air is observed; a minimum of 15 gallons per shear valve. Initial purging of air shall be done using the shear valve. Severe damage may occur to dispensing equipment, if Wawa's representative is responsible for repairs. Wawa's representative's instructions for proper purging procedure shall be followed. Purging from the shear valve will result in formation of fine mist.

Wawa Petroleum Closeout Documentation Needed
The following items are required at the time of completion from all gasoline installation contractors:

1. Xerox Tank Installation Checklists & associated delivery bill of lading.
2. Product Piping Warranty Sheet - completed and signed.
3. Tank Registration Application or Permit (if applicable). Please forward to the Wawa Environmental Department two (2) weeks after the installation of USTs.
4. Flammable Liquid Permit (if applicable; L&I in PA, must have signature of final inspection.)
5. Tank and Line Test Results (from Crompco)
6. Weight & Measure Notification (written) & completed calibration forms.
7. Veeder-Root Warranty Registration Form (Provided by Start-up Contractor)
8. Silbance Commissioning Checklist (Provided by Start-up Contractor)
9. Pictures of the entire installation process (tanks, piping and completed fuel court)
10. As-built drawings for underground tanks, piping, conduits, and any utilities.
11. Pea gravel certification of ASTM C-93 from store supplier.
- Two (2) of each of these items need to be delivered by the petroleum contractor at the time of the gasoline punch list walk. Failure to provide the proper documentation will delay and/or forfeit final payment.

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Veeder-Root Installation

All Veeder-Root installation & wiring to be performed in full accordance with Veeder-Root installation manual. Contractor & electrical contractor performing Veeder-Root installation must have completed Veeder-Root installation certification. All probe sensor wiring splices shall use manufacturer supplied epoxy packs & contained in a Class I electrical junction box.

All sensor & probe wiring must be 18 AWG shielded "Belden" cable or equivalent.

Specific attention must be given to Veeder-Root grounding requirements. (#12 AWG conductor, buried ground to the earth ground bus at power distribution panel)

Installation includes Overfill Alarm & acknowledgments switch on vent riser. Overfill alarm should be wired to output relay board located in slot no. 9, position no. 1.

Positive shut down of submersible pump controllers (STPs) must be wired via the automatic tank gauge (ATG) relay boards. It is the petroleum installation contractor's responsibility to run the petroleum installation contractor's responsibility to run the individual manway as controlled by the ATG. Each STP should have home run wiring from the specified STP controller isolation relay box (STP-DHI) to the appropriate ATG relay board slot. Programming of the ATG will be the responsibility of the local ASC selected to service the location. Coordination should be taken between the installation contractor and the ASC to insure that proper wiring and programming corresponds to the requirements for the positive shutdown process.

Sump Sensors
Sensors to be mounted at side of tank where product penetration into sump is made & below lowest penetration fitting within sump area. Mount sensor flush to lowest point in sump bottom. All tank sump sensors shall be discriminating for the presence of hydrocarbons.

Equipment Start-Up/Purging & Calibration
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3. Tank Registration Application or Permit (if applicable). Please forward to the Wawa Environmental Department two (2) weeks after the installation of USTs.
4. Flammable Liquid Permit (if applicable; L&I in PA, must have signature of final inspection.)
5. Tank and Line Test Results (from Crompco)
6. Weight & Measure Notification (written) & completed calibration forms.
7. Veeder-Root Warranty Registration Form (Provided by Start-up Contractor)
8. Silbance Commissioning Checklist (Provided by Start-up Contractor)
9. Pictures of the entire installation process (tanks, piping and completed fuel court)
10. As-built drawings for underground tanks, piping, conduits, and any utilities.
11. Pea gravel certification of ASTM C-93 from store supplier.
- Two (2) of each of these items need to be delivered by the petroleum contractor at the time of the gasoline punch list walk. Failure to provide the proper documentation will delay and/or forfeit final payment.

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