

November 15, 2024

2024 Standard Construction Details and Specification Updates

Summary of Revisions

W-1

- Standardized font/hatches formatting
- Included detail for hydrant across the street from water main

W-1A

- Standardized font/hatches formatting
- Changed title to "Valve Notes"
- Moved appropriate notes to FHA notes

W-2

- Standardized font/hatches formatting
- Added "& wire port" to callout at top of page
- Added clear zone
- Revised callout to "Pumper Nozzle to 18" above finished grade measured to center of nut"
- Showed gap/raise flange at fire hydrant
- Installed hydrant to "bury line"
- Added wire port (see markup)
- Revised note callout to correct note (note 11 to note 9)

W-2A

- Standardized font/hatches formatting
- Revised note 2 "...minimum of 18" above..."
- Revised note 11, 3rd sentence to "Breakaway flanges shall be 4" above housekeeping pad or manufactured specification".
- Added 4 FHA notes (3,6,7, and part of 9) from W-1A (13 total notes)
- Revised note 1 "Guards" to "Bollards"
- Deleted note 4
- Deleted note 10

W-3

- Revised "2" HDPE to "2" Poly-Pexa"
- Added a corporation stop where noted
- Revised note 6, "from 4'-6" to "4' to 6"
- Standardized font/hatches formatting

W-4

- Added trace wire
- Increase radius/sweep of water service
- Standardized font/hatches formatting

W-4A

- Standardized font/hatches formatting
- Increased radius/sweep of water service

W-4B

- Standardized font/hatches formatting
- Revised note 4, remove "Diameter" in both instances
- Revised note 11, removed "Pre-Plumbed" and removed parenthesis around "enclosed"
- Revised note 10, "ERU" to "Equivalent Residential Unit (ERU)"
- Revised note 13 to add drawing title

W-5

- Standardized font/hatches formatting
- Added lid to meter box
- Removed "Heavy Duty" and "Radio Read"

W-5A - Removed Sheet

W-6

- Revised callout leader for "1 1 1/2"Ø Pex-A Service Lateral" per markup
- Added callout "1" PEX-A
- Revised callout to "PEX-A Water Service"
- Standardized font/hatches formatting

W-6A – Standardized font/hatches formatting, no changes

W-7 - Standardized font/hatches formatting, no changes

W-8

- Delete note 5 and replaced reference to note 5 with note 1
- Standardized font/hatches formatting
- Revised "Water Main or Service" to "Water Main"

W-9

- Revised note 1
- Delete note 5 (8 total notes now)
- Standardized font/hatches formatting



W-10

- Revised callout at top left of elevation to "One Section D.I.P. Required On Upstream Side Of Check Assembly"
- Added "(FIRE MAIN SERVICE) to title block
- Added wire port
- Revise callout to "MJ Spool" on both sides
- Added callout "MJ" on both sides
- Revise callout at bottom right of page to "Fire Main By Others"
- Standardized font/hatches formatting
- Revised callout "IRCDUS Customer Piping" to "Customer Piping"

W-10A

- Revised note 1 "detector" to "double detector"
- Revised note 3 to update URL
- Revised note 6 to cut "flanged ductile iron"
- Added "(Fire Main Service) to title block
- Standardized font/hatches formatting

W-11

- Moved unions outside of valves
- Revised note 1
- Added parentheses around RPZ in title block
- Cleaned up unions
- Standardized font/hatches formatting

W-12

- Standardized font/hatches formatting
- Deleted callouts "Flanged x Connecting M.J. Spool"
- Revise callout to "MJ 90° Bend (TYP)"
- Remove "drawing" reference in callout
- Callout in elevation view referencing note 1 changed to note 9
- Removed "Flanged Pipe and Fittings (2 R'QD TYP)

W-12A

- Revised note 4 "device" to "assembly"
- Revised note 9 "type of meter" to "meter" and "approved by IRCDUS" to "per APL and approved by IRCDUS"
- Standardized font/hatches formatting

W-13

- Revised note at bottom to only mention W-13 A and "note 9" instead of "note 10"
- Standardized font/hatches formatting



W-13A

- Revised note 10 to remove "the contractor shall have RPZ tested"
- Revised note 11, "diameter" to the symbol and "the Utility Company" to "IRCDUS"
- Revised note 13, "FDEP" to "FDEP and the Director of IRCDUS"

S-1

- Revised cover min-max to 24"-36"
- Deleted 2' cover dimesion
- Revised painted marker material to "Plastic/PVC Painted Green"
- Revised callout to "SIDEWALK (SEE DRAWING S-3 AND S-3A, NOTE 6)"
- Standardized font/hatches formatting
- Revised "branches" to "branch"
- Revised "note 9" to "note 7"

S-2

- Deleted gravel hatch
- Matched all hatch to "sand bed" hatch and labeled it "sand bed"
- Standardized font/hatches formatting
- Revised "note 8" to "note 9"
- Revised "note 4" to "note 2"
- Revised "DWG" to "Drawing"

S-3

- Added easement
- Revised callout "Customer Responsible For Riser and Cleanout"
- Revised callout "45deg Bends For Pipe (Typical), Customer Responsible, For Construction of 4"
 Riser"
- Revised line type on easement
- Standardized font/hatches formatting

S-3A

- Revised title to "Sewer Lateral Notes"
- Revised note 4, deleted "Gravel (3/4") Bedding shall be used"
- Deleted note 5
- Deleted note 6 (9 total notes)
- Note 7, revised "later" to "lateral"
- Revised note 10, deleted "4 (diameter symbol)" and "24" below finished grade"
- Standardized font/hatches formatting

- Revised callout, delete "as required"
- Deleted note 3
- Standardized font/hatches formatting



S-5

- Revised "Manhole notes" to "notes"
- Revised note 6 "EW-1" to "EP-1" and "black" to "black (con seal)"
- Revised note 18 to "where manholes lining is required, materials are to be per IRCDUS approved manufacturer's product list"
- Revised note 19 "out" to "outside"
- Revised chart column label, "Greater than 10" to "10' or Greater"
- Revised note 12, "N0. 4(diameter symbol) Bars" to "Four (4) reinforcing bars"
- Standardized font/hatches formatting

S-6

- Updated drawing titles referenced
- Revised dimension to go to the invert at the bottom of the pipe, not the outside of pipe
- Revised outside diameter dimension to 6'-4"
- Standardized font/hatches formatting
- S-7 Standardized font/hatches formatting and updated drawing titles referenced, No changes

S-8

- Revised 2 callouts from "seal" to "Grout Seal"
- Revised note 6 from "seal" to "grout seal"
- Standardized font/hatches formatting
- S-9 Standardized font/hatches formatting and updated drawing titles referenced, No Changes
- S-10 Standardized font/hatches formatting and updated drawing titles referenced, no changes
- S-11 Standardized font/hatches formatting, no changes
- S-12 Standardized font/hatches formatting, no changes

- Removed gravity sewer
- Revised note 2 "S-12" to "S-11"
- Updated S-12 title
- Revised callout "Interior of Manhole to be lined (F.G., GML Coating, or Approved Equal)
- Revised note 4 "no inside drop will be accepted.."
- Note 5 added, "Where manhole lining is required, materials are to be per IRCDUS approved manufacturer's product list"
- Standardized font/hatches formatting
- Revised note 6, "note 18" to "note 20"
- **S-14 -S-22: Sheets put into new section dedicated to lift station details & notes. Text/hatch formatting applied to all applicable sheets/drawings. Below is a description of each markup prior



to becoming lift station notes, and the sheet/name of the information from the previous "S" sheet on the new "L" sheets.**

S-14

- Eliminated valve vault
- Went above ground
- Added ARV at top
- S-14 -> L-1
- Completely overhauled
- Changed title to "Concrete Structure Details-Plan View"

S-14A

- Added 18" min bottom dimension
- S-14A -> L-1A
- Completely overhauled
- Changed title to "Concrete Structure Details Section View"
- Added note 4 "Lift station pay (item includes all components (wet well, pumps, control panel, piping, etc.) up to but excluding the isolation valve.

S-15

- Added 4" Call lock pump out
- S-15 -> L-2
- Completely overhauled
- Changed title to "Pump, Piping, & Mechanical Details Plan View"

S-15A

- Revised per markup
- S-15A -> L-2A
- Completely overhauled
- Changed title to "Pump, Piping, & Mechanical Details Section View"

L-3

New sheet.

L-3A

• New sheet.

- S-16 -> L-4
- Changed title to "Site Plan Alternative "A""
- Deleted "Valve Vault"
- Added "LED Light Pole at Panel"
- Deleted "(Min) Typical All Sides of Generator"
- Standardized font/hatches formatting



S-16A

- S-16A -> L-4A
- Changed title to "Site Plan Alternative "B""
- Completely overhauled
- Added "LED Light Pole at Panel"

S-16B

- S-16B -> L-4B
- Changed title to "Site Plan Notes"
- Added note 10 stating "Show Electrical Layout on As-Builts At Lift Stations To Help Locators"

S-17

- S-17 -> L-5
- Changed title to "Electric Service Entrance Meter & Panel Box"
- Completely overhauled

S-18

- S-18 -> L-5A
- Changed title to "Control Panel Layout"
- Add "3/4" diameter conduit to Water Tap" and "3/4" diameter conduit to Data Flow"
- Update to reference "Drawing L-7"
- Add "Install Light at Top Interior of Panel"
- Standardized font/hatches formatting

S-18A

- S-18A -> L-5B
- Changed title to "Control Panel Inner Door Layout"
- Update to reference "Drawing L-7"
- Add "Panel and Overhead Lighting Switch"
- Add "Phase Monitor"
- Add "Ammeter"
- Add "Explosion Proof Fittings on Conduit"
- Add "NEMA 4x Junction Box"
- Remove wire labels
- Standardized font/hatches formatting

- S-19 -> L-6
- Changed title to "Pumping Station General Notes"
- Standardized font/hatches formatting



S-19A

- S-19A -> L-6A
- Changed title to "Pumping Station General Notes"
- Updated note 25 to "see pumping station concrete structure, plan view and section view drawings, L-1 and L-1A. Pump, piping, and mechanical drawings, L-2 and L-2A. Pump station grounding detail and site plan notes, I-3and I-3a. Electrical service entrance meter and panel box drawing, L-4. See drawings L-5, L-5A, L-6,L-6A, L-7, L-8 and L-8A for control panel layouts, pumping station general notes, and electrical notes."
- Standardized font/hatches formatting

S-20

- S-20 -> L-7
- Changed title to "Pumping Station Electrical Notes"
- Added note 23, "All Wire Terminals Shall Be Tinned."
- Added note 24, "provide an overhead light operated by a switch in the control panel. Light shall be led, type iv,400w metal halide equal, mounted at a height of 12'."
- Standardized font/hatches formatting

S-21

- S-21 -> L-8
- Changed title to "Generator Notes & Float Controls"
- Update drawing titles
- Standardized font/hatches formatting

S-22

- S-22 -> S-14
- Added note 5, "Commercial private pumping stations shall have a 4"ø service tap connection to the force main with a 4" gate valve. Residential private pumping stations shall have a 2"ø service tap connection with a 2"ø corporation stop."
- Revise "service tap" to "tapping sleeve" and "note 6" to "note 5"
- Standardized font/hatches formatting

R-1

- Standardized font/hatches formatting
- Revised meter note from "R-2 A, Note 3" to "R-2A, Note 4"
- Revised "R-2A, Note 2" to "R-2A, Note 1"



R-2

- Added footer to concrete pier and 6" dimension
- Standardized font/hatches formatting

R-2A

- Standardized font/hatches formatting
- Delete "to maintain" from note 6.
- Updated sheets referenced in note 7 to L-5, L-5A, L-5B, L-6, L-6A

M-1

- Standardized font/hatches formatting
- Deleted notes at bottom of page.
- Revised "(See Note 1)" to "(See Drawing M-1A), Note 4)

M-1A

- Standardized font/hatches formatting
- Revised note 1 from "above" to "on Drawing M-1"

M-2

- Standardized font/hatches formatting
- Revised "OD" to "O.D."
- Revise "note 1" reference to "note 2"

M-3

• Standardized font/hatches formatting, no changes

M-4

- Standardized font/hatches formatting
- Remove note 3 and references to note 3 (6 total notes)
- Add "Slope to 36" (Min) Cover"
- Add "20" Stick Centered Below Obstruction"

M-5

- Standardized font/hatches formatting
- Added pressure port
- Added "Full Gasket"
- Revise "Flange" to "S.S. Flange"
- Revised "Gate Valve" to "Flange and Mechanical Joint Gate Valve"

M-6

- Standardized font/hatches formatting
- Revised "Drawing M-6" to Drawing M-7"
- Removed "Rock to Extend Above Extension"



- Removed "Provide Extension as Shown"
- Revised "Fibercrete" to "Fibercrete or EPOXY"
- Added "Nut"
- Added "Cast Iron Valve Box Lid (See M-6A, Note 7)"

M-6A

- Standardized font/hatches formatting
- Delete notes 7 & 8 (10 total notes)
- Revise note 5 to "All Valves Are to Be Located By GPS."
- Revise note 11 to "Valve extensions over 36" require IRCDUS engineering approval. valve nut extension may be required for deep valves."
- Revise note 12 to "Valve spacing on water mains shall not exceed 1,000', or as directed."

M-7

- Standardized font/hatches formatting
- Remove note

M-8

- Changed title to "Air Release Valve Manhole Above Ground"
- Update drawing titles
- Standardized font/hatches formatting
- Enlarged manhole and offset lid from center of manhole
- Add note 8 "Standardized font/hatches formatting"

M-9

- Added Callout for double-bolt S.S. Strap
- Standardized font/hatches formatting
- Changed title to "Air Release Valve Manhole Above Ground"
- Delete "or Flanged Fitting"
- Delete "or Brass Nuts"
- Revise "Wet Tapping Sleeve" to "Service Saddle"

M-10

- Added valve pad
- Revised line type
- Standardized font/hatches formatting
- Deleted redundant notes

M-11

Standardized font/hatches formatting, no changes

M-12

• Standardized font/hatches formatting, no changes



M-13

- Standardized font/hatches formatting
- Edited end seal
- Added callout for casing vent
- Added Neoprene boot to drawing

M-14

- Standardized font/hatches formatting
- Add "Type II" to Drawing M-6

M-15

Standardized font/hatches formatting, no changes

M-16

• Standardized font/hatches formatting, no changes

M-16A

Standardized font/hatches formatting, no changes

M-17

- Standardized font/hatches formatting
- Note 8, revised to "... SUNSHINE 811...

M-17A

• Standardized font/hatches formatting, no changes.

