

# GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION, AS FOLLOWS:  
  
KANSAS ONE-CALL 1-316-687-2470  
  
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:  
  
AT&T 1-800-246-8464  
BLACK HILLS ENERGY 1-800-694-8989  
CITY OF WICHITA WATER & SEWER 1-316-219-8921  
CITY OF WICHITA STORMWATER 1-316-268-4498  
CITY OF WICHITA TRAFFIC 1-316-268-4501  
COX COMMUNICATIONS 1-888-249-3530  
KANSAS GAS SERVICE 1-888-482-4950  
ENERGY 1-800-544-4857
- UTILITY SERVICE LINES, POLES, ETC., ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS, IN THE OPINION OF THE ENGINEER, THAT WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE CITY ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE ENGINEERING DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FINAL GRADES BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND DAWNITA REINHARDT AT 316-650-0740 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER AT [traffic@wichita.gov](mailto:traffic@wichita.gov) BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL ELEVATIONS SHOWN ARE NAVD 88.
- ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.
- ANY SIDEWALK, DRIVE APPROACH, CURB, OR STREET PAVEMENT REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY THE CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480.
- ALL APPLICABLE FEES (TAP, EQUITY, IN LIEU OF & MAIN BENEFIT) MUST BE PAID BEFORE ANY CONNECTIONS CAN BE MADE ON THIS PROJECT. QUOTES CAN BE OBTAINED ON FEES BY CALLING CHRIS STONE AT 316-268-4641.
- CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY OR EASEMENT LINE OR WITHIN TWO FEET OF VAULT.
- OPENING AND CLOSING OF WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
- THE CONTRACTOR SHALL LAY A TRACER WIRE AND SET TEST STATIONS ALONG ALL WATER PIPE INSTALLED IN ACCORDANCE WITH CITY SPECIFICATIONS AND TRACER WIRE DETAIL ON DETAIL SHEET WL-101, COST IS SUBSIDIARY TO PIPE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINE(S) SHALL BE MADE WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS.
- REQUESTS FOR SHORT TERM WATER INTERRUPTIONS SHALL BE MADE TO THE CITY WATER DISTRIBUTION DIVISION AND WILL BE SUBJECT TO THEIR APPROVAL. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ANY PROPERTY OWNER, BUSINESS, AND/OR TENANTS THAT WILL HAVE WATER SERVICE INTERRUPTED AT LEAST 5 DAYS IN ADVANCE. SUCH NOTIFICATIONS SHOULD INDICATE THE TIME AND DATE THAT THE WATER WILL BE TURNED OFF AND WHEN THE SERVICE WILL BE RESTORED. NO BUSINESS, PROPERTY OWNER, AND/OR TENANTS SHALL BE WITHOUT WATER SERVICE FOR MORE THAN 8 HOURS. PROPOSED TIE-IN LOCATIONS WHICH WILL AFFECT WATER SERVICE TO PROPERTY OWNERS SHALL BE PERFORMED DURING NON-PEAK HOURS.
- THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING MAIN WITH THE CITY SUCH THAT THERE IS A MINIMUM DISRUPTION OF SERVICE. CONNECTIONS SHALL BE MADE DURING PERIODS OF LOW WATER USAGE. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SCHEDULE FOR COMPLETING WORK FOR CITY APPROVAL AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION.
- DEFLECTIONS AT PIPE JOINT OR COUPLINGS SHALL NOT EXCEED THE PIPE MANUFACTURER'S RECOMMENDED MAXIMUM. WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE FITTINGS.
- ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
- VALVES 12 INCHES AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION, 48 HOURS OF ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316-291-8921.
- ALL WET TAPS SHALL BE INSTALLED BY THE CITY OF WICHITA. THE CONTRACTOR WILL REIMBURSE THE CITY FOR TAPPING FEES PRIOR TO TAP BEING MADE. UNLESS NOTED ON PLANS.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- WICHITA FIRE DEPARTMENT INSPECTIONS MAY BE SCHEDULED BY CALLING DAWNITA REINHARDT AT 316-268-4574.
- MAINTAIN A MINIMUM 10-FOOT HORIZONTAL SEPARATION BETWEEN ALL WATER LINES (MAINS, SERVICES, AND FIRE HYDRANTS) AND ALL SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES). ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL GRAVITY SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES). ALL SEPARATION DISTANCES ARE TO BE MEASURED EDGE-TO-EDGE, AT THE CLOSEST POINT. IF THE WATER PIPE IS BELOW THE SANITARY SEWER, REGARDLESS OF CLEAR SPACE, THE SANITARY SEWER SHALL BE REINFORCED CONCRETE ENCASED FOR A DISTANCE OF TEN FEET (10') EACH WAY FROM THE WATER LINE CROSSING.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL PRESSURIZED SANITARY SEWER LINES (FORCE MAINS AND SERVICES) AT CROSSINGS. WATER LINES MUST ALWAYS BE PLACED ABOVE PRESSURIZED SANITARY SEWER LINES WHERE THEY CROSS. ALL SEPARATION DISTANCES ARE TO BE MEASURED EDGE-TO-EDGE, AT THE CLOSEST POINT.

**Utility Contractor: McCullough Excavation**  
**Superintendent: Rob Gray**  
**Inspection: Baughman Company**  
**Staking: Baughman Company**  
**Inspector: Jeff Priddle**  
**As-Built Plans: Larry Powell & Jeff Priddle**  
**May 29, 2026**

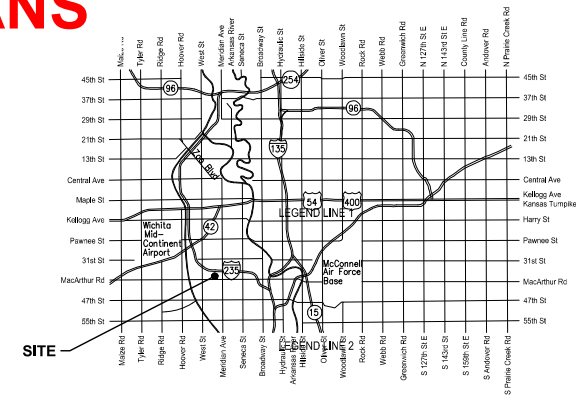
PRIVATE WATER DISTRIBUTION SYSTEM  
TO SERVE

# SOUTH CENTRAL KS REGIONAL PSYCHIATRIC HOSPITAL

W. MACARTHUR ROAD,  
WICHITA, KS 67217  
THE CITY OF WICHITA, KANSAS  
PAUL GUNZELMAN, P.E. - CITY ENGINEER  
PROJECT NUMBER 2024-035607PPW  
ORG CODE 54030980

Baughman Job # 25-03-E053

# AS-BUILT PLANS



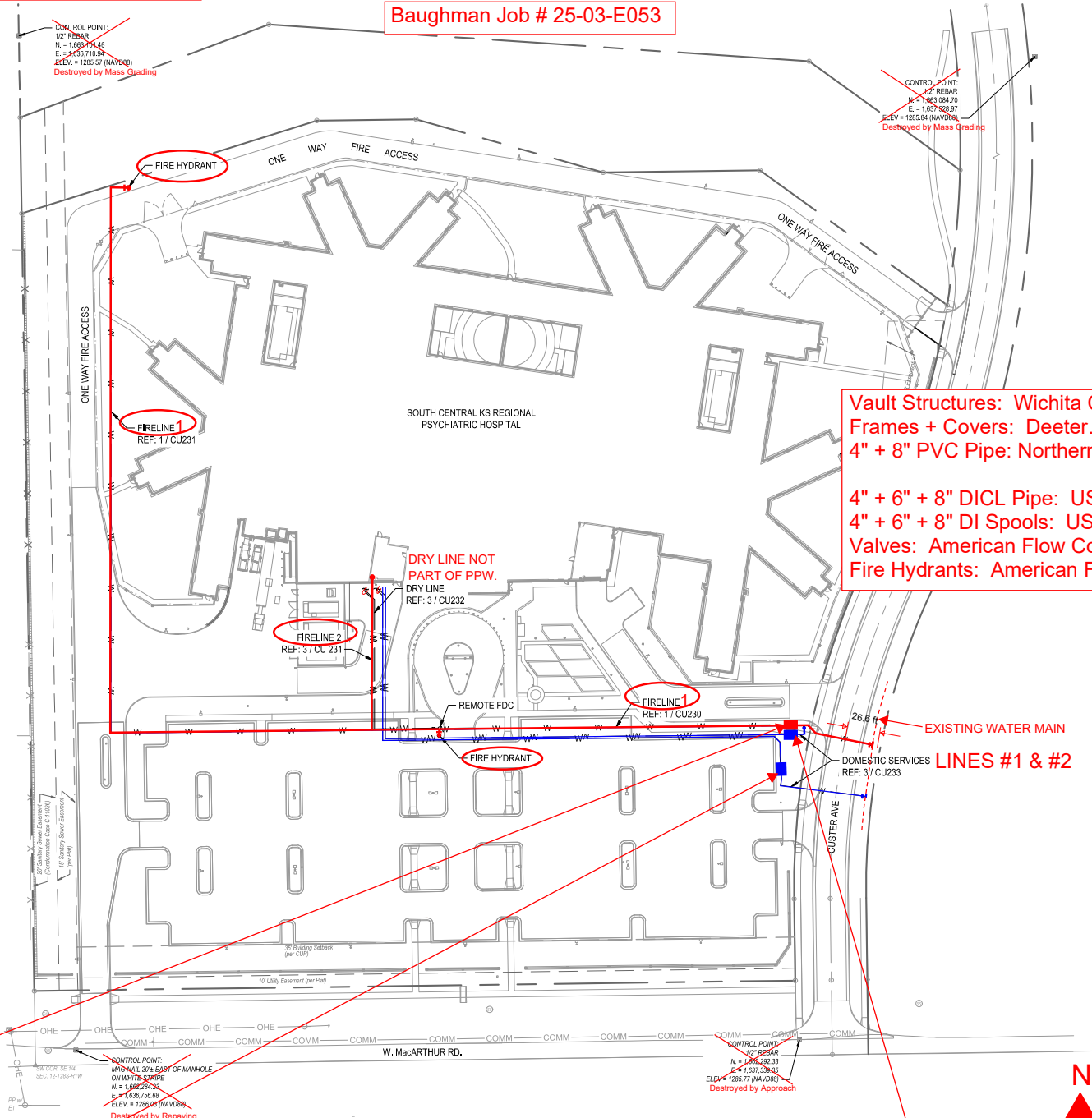
Vicinity Map

Construction Began: 1 April 2025  
Construction Ended: 28 July 2025

## INDEX OF DRAWINGS

SHEET NO.	SHEET NAME
CU130	PPW COVER SHEET
CU230	WATER PLAN & PROFILE
CU231	WATER PLAN & PROFILE
CU232	WATER PLAN & PROFILE
CU233	WATER PLAN & PROFILE
CU530	WATER DETAILS
CU531	WATER DETAILS
CU532	WATER DETAILS
CU533	WATER DETAILS
CU534	WATER DETAILS
CE501	EROSION CONTROL DETAILS
CE502	EROSION CONTROL DETAILS
CE503	EROSION CONTROL DETAILS
CE504	EROSION CONTROL DETAILS
CE505	EROSION CONTROL DETAILS
GS-001	SITE SURVEY

**Vault Structures: Wichita Concrete Pipe.**  
**Frames + Covers: Deeter.**  
**4" + 8" PVC Pipe: Northern Pipe.**  
  
**4" + 6" + 8" DI CL Pipe: US Pipe.**  
**4" + 6" + 8" DI Spools: US Pipe.**  
**Valves: American Flow Control.**  
**Fire Hydrants: American Flow Control.**



## CONTROL POINTS

- CONTROL POINT:**  
1/2" REBAR  
ELEV=1285.57 (NAVD88)  
NORTHING: 1,663,101.46, EASTING: 1,636,749.94  
Destroyed by Mass Grading
- CONTROL POINT:**  
1/2" REBAR  
ELEV=1285.84 (NAVD88)  
NORTHING: 1,663,084.70, EASTING: 1,637,568.97  
Destroyed by Mass Grading
- CP 313**  
"X" in Concrete Cylinder  
N: 1,662,593.4 E: 1,637,326.9  
Elev: 1285.52
- CP 315**  
"X" in Concrete Cylinder  
N: 1,662,644.0 E: 1,636,816.0  
Elev: 1284.71
- CONTROL POINT:**  
MAG NAIL 20" EAST OF MANHOLE ON WHITE STRIPE  
ELEV. 1286.03 (NAVD88)  
NORTHING: 1,662,284.23 EASTING: 1,636,766.68  
Destroyed by Repeating
- CONTROL POINT:**  
1/2" REBAR  
ELEV. 1285.77 (NAVD88)  
NORTHING: 1,662,292.33, EASTING: 1,637,339.35  
Destroyed by Approach

Control Points used for As-Built GPS Survey.

**Double Check Detector Valve Assembly:**  
**Water Meter: Badger (5/8" - 3/4").**  
**Water Meter Serial #: 220953669**  
**5-5-26: Water Meter Reading: 00.00 CUFT**  
**ERT Serial #: 73828518**

**Domestic Water Line #1 Meter:**  
**Water Meter: Octave 4".**  
**Water Meter Serial #: 211109170.**  
**Initial Water Meter Reading: 0 Cu.Ft.**  
**Final Water Meter Reading: 1223 Cu.Ft.**  
**ERT Serial #: 68592716**

**Domestic Line #2 Water Meter:**  
**Water Meter: Octave 4".**  
**Water Meter Serial #: 211108372.**  
**Initial Water Meter Reading: 0 Cu.Ft.**  
**Final Water Meter Reading: 3414 Cu.Ft.**  
**ERT Serial #: 68103130**

APPROVED AS NOTED  
BY WICHITA PUBLIC WORKS  
ENGINEERING DIVISION  
& BY WICHITA FIRE DEPARTMENT

Engineering	SHAWN MELLIES, 2025-02-13
Utilities	GREG LOLLEY, 2025-02-13
Fire Department	JOSE OCADIZ, 2025-02-13

### NOTE TO CONTRACTORS

**Public Property:**  
Inspection and testing for the waterline is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection is to be in accordance with the City of Wichita standard construction engineering practices and certified by a Professional Engineer Licensed in the state of Kansas. No work shall be performed in dedicated easements or public rights-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards and Special Provision (on file and available in the City Engineer's office) or on the City's Website.

**Private Property:**  
Installation and testing for the fire protection line is to be performed by a City of Wichita licensed fire protection contractor in accordance with the fire codes as adopted by the City of Wichita. All material and construction practices for the fire protection line shall comply with the fire codes as adopted by the City of Wichita (available from the City of Wichita Fire Department). The Contractor shall not commence work without notification and approval of the Wichita Fire Department. Inspection of the fire protection line is to be provided by a Licensed Engineering Firm under contract with the Owner/Developer and the Fire Department. The contractor shall not start work until the project inspector is assigned to the project and present on the site. Any work done without inspection will be required to be uncovered for inspection.

An approved copy of these plans signed by City staff is required on-site.



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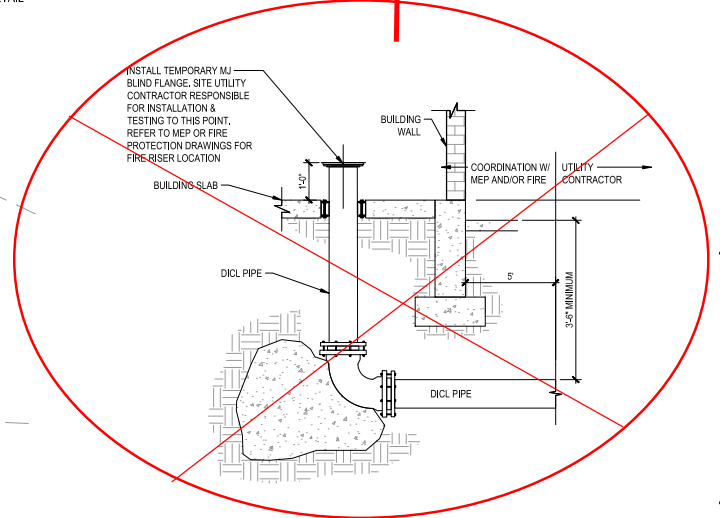
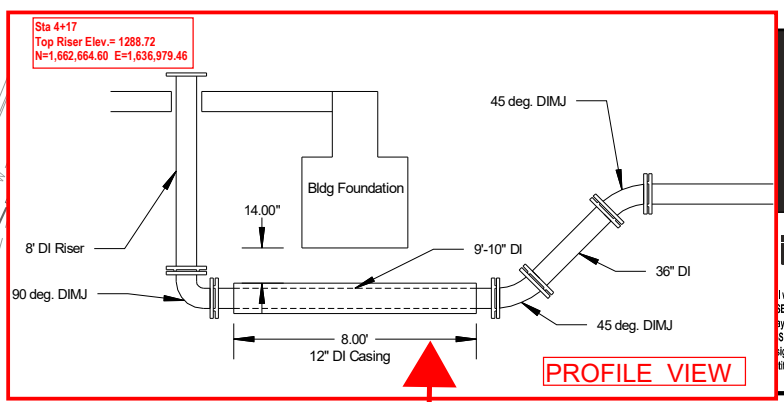
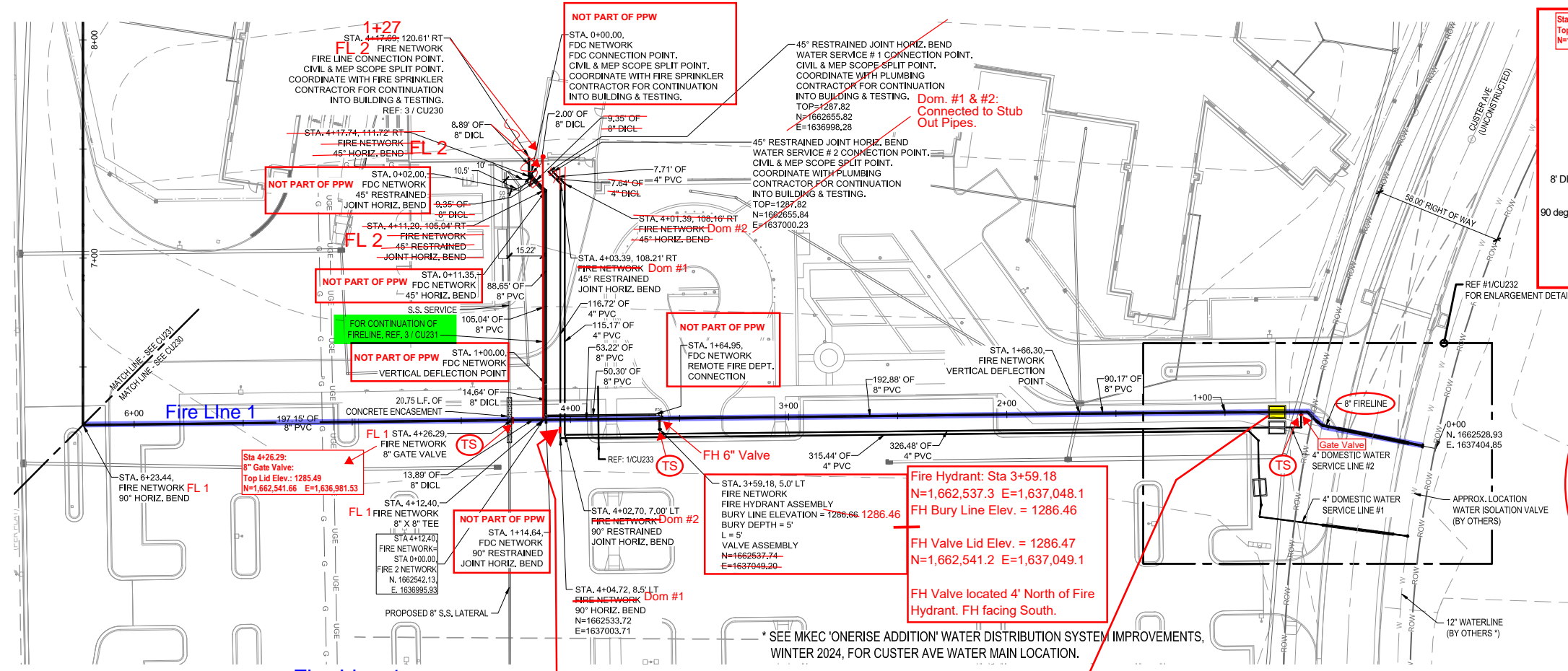


**SOUTH CENTRAL KS REGIONAL PSYCHIATRIC HOSPITAL**  
**SEDGWICK COUNTY**  
 3901 SOUTH CUSTER AVENUE, WICHITA, KS 67217

PROJECT NO.	18179R24001
STATUS:	PERMIT DOCUMENTS
DATE:	02/13/2025
DRAWN BY:	MTK
CHECKED BY:	KLH

PPW COVER SHEET

CU130

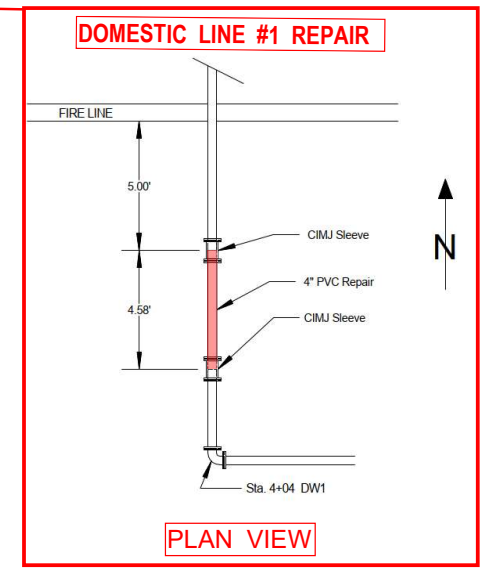
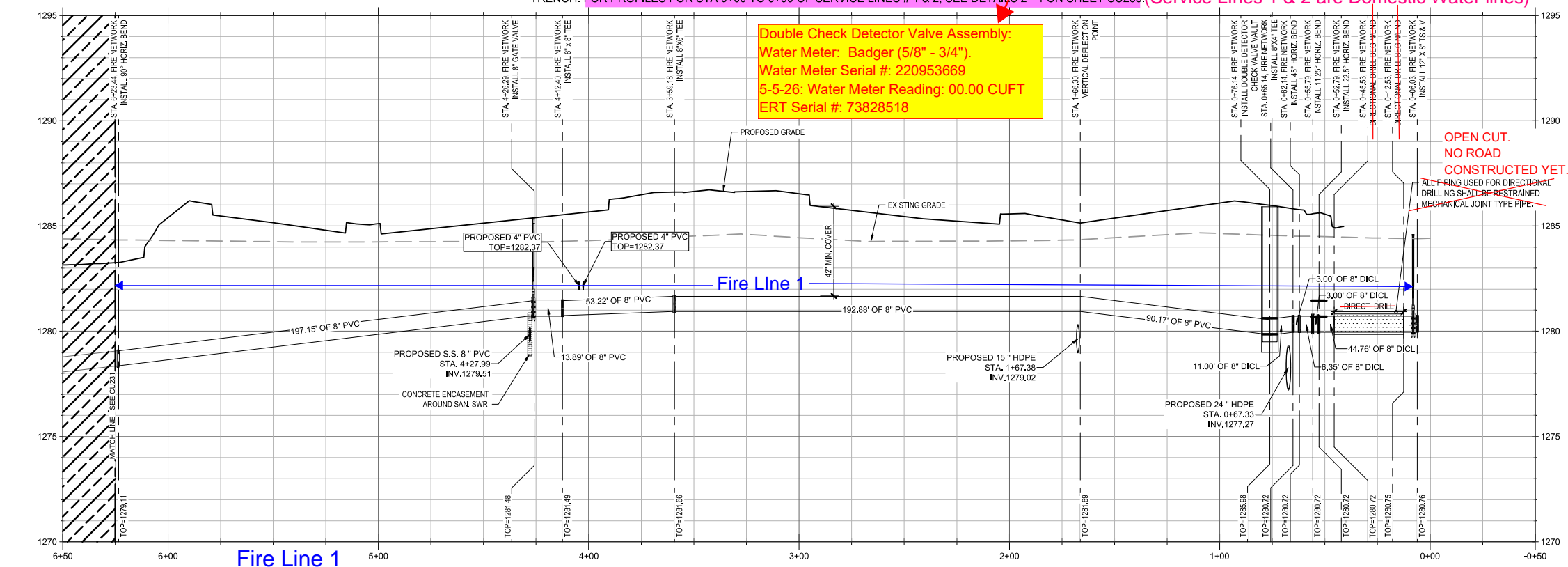


**1 WTR NETWORK - FIRELINE PLAN - STA 0+00 TO 6+23.44**

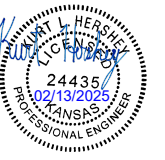
Fire Line 2 Profile located sheet 231

**3 FIRE LINE CONNECTION DETAIL**

NOTE: FROM APPROXIMATELY STATION 0+90 FORWARD, ONLY FIRE LINE IS PROFILED WITH ALL SERVICES IN COMMON TRENCH. FOR PROFILES FOR STA 0+00 TO 0+90 OF SERVICE LINES # 1 & 2, SEE DETAILS 2-4 ON SHEET CU233. (Service Lines 1 & 2 are Domestic Water lines)



**2 WTR NETWORK - FIRELINE PROFILE - STA 0+00 TO 6+23.44**



**SOUTH CENTRAL KS REGIONAL PSYCHIATRIC HOSPITAL**  
**SEDGWICK COUNTY**  
 3901 SOUTH CUSTER AVENUE, WICHITA, KS 67217

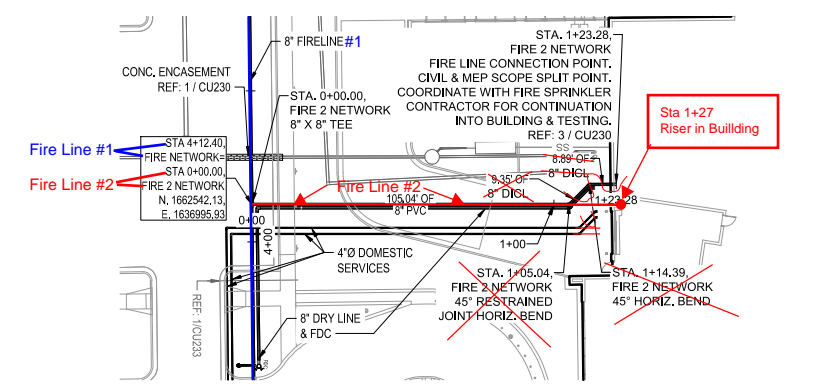
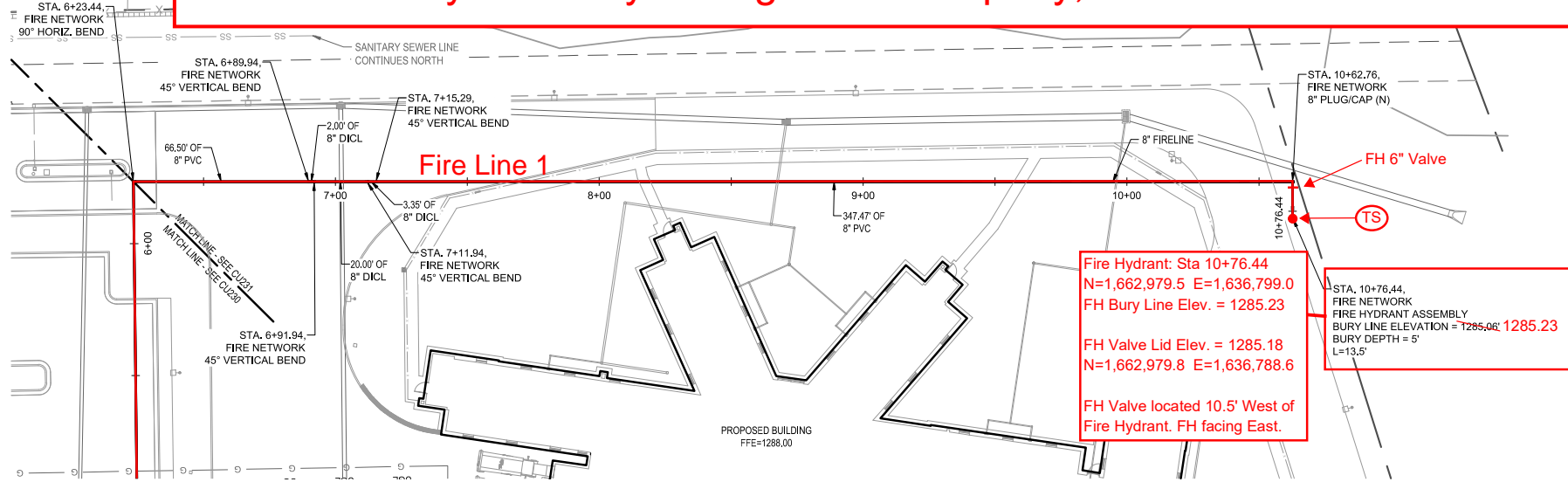
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PROJECT NO:	18170R24001
STATUS:	PERMIT DOCUMENTS
DATE:	02/13/2025
DRAWN BY:	MTK
CHECKED BY:	KLH

WATER  
 PLAN & PROFILE

**CU230**

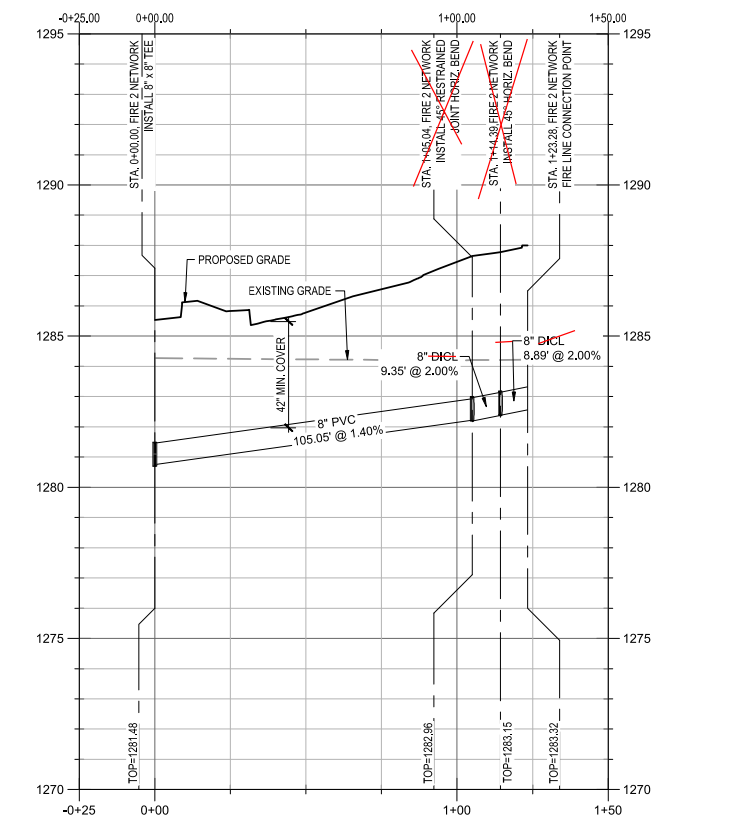
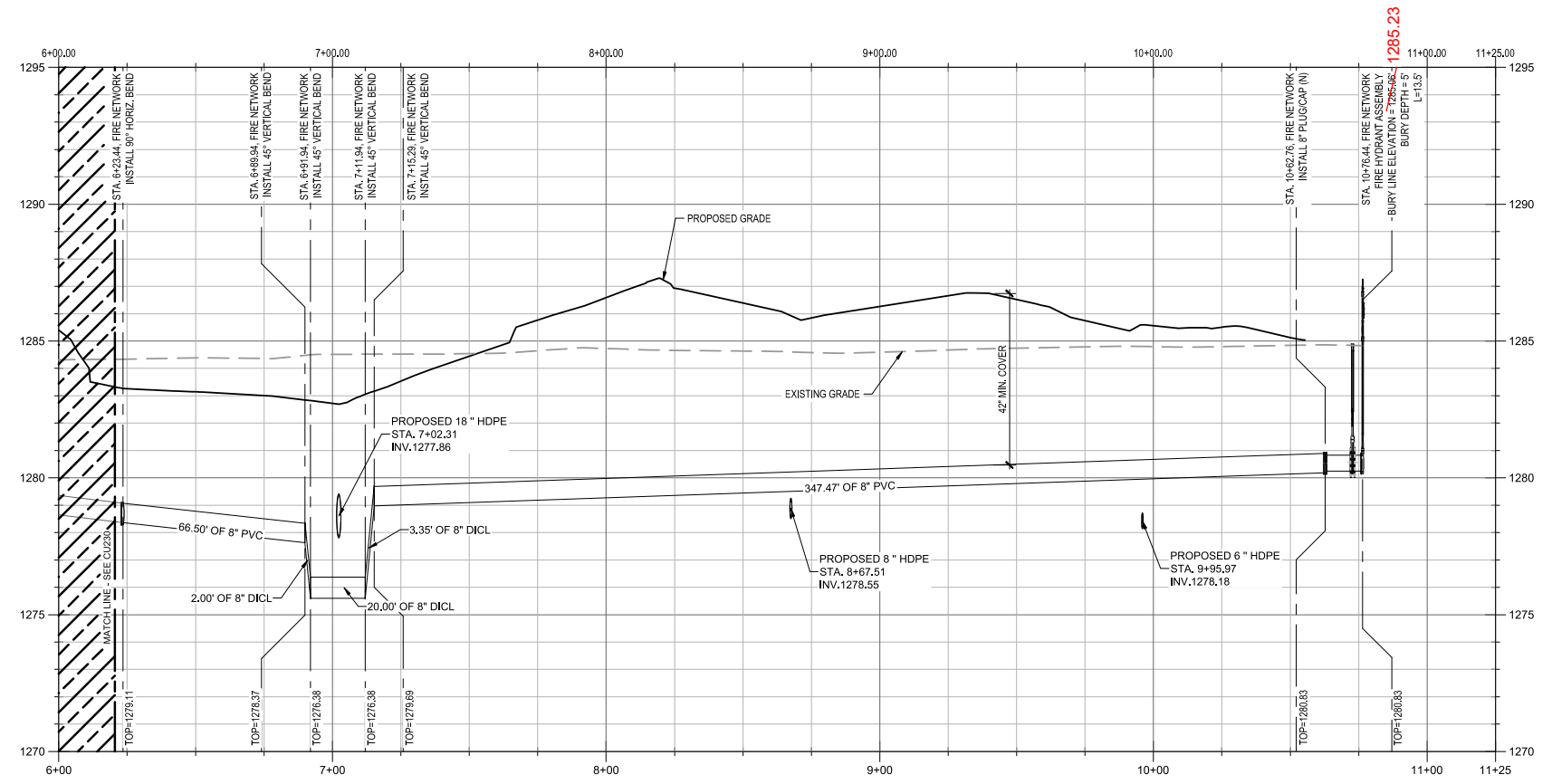
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Northings (N) & Eastings (E): State Plane Coordinates - Kansas Grid South - NAD83 (2011), EPOCH 2023.  
 Elevations: NAVD88 (Geoid 18).  
 As-Built Survey Shots By: Baughman Company, P.A.



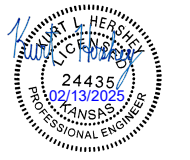
**1 WTR NETWORK - FIRELINE (CONT.) PLAN - STA 6+23.44 TO 10+76.44**  
 SCALE: 1" = 30'

**3 WTR NETWORK - FIRELINE 2 PLAN**  
 SCALE: 1" = 30'



**2 WTR NETWORK - FIRELINE (CONT.) PROFILE - STA 6+23.44 TO 10+76.44**  
 SCALE: HORIZONTAL: 1" = 30', VERTICAL: 1" = 3'

**4 WTR NETWORK - FIRELINE 2 PROFILE**  
 SCALE: HORIZONTAL: 1" = 30', VERTICAL: 1" = 3'



**SOUTH CENTRAL KS REGIONAL PSYCHIATRIC HOSPITAL**  
**SEDGWICK COUNTY**  
 3901 SOUTH CUSTER AVENUE, WICHITA, KS 67217

PROJECT NO:	18170R24001
STATUS:	PERMIT DOCUMENTS
DATE:	02/13/2025
DRAWN BY:	MTK
CHECKED BY:	KLH

WATER PLAN & PROFILE  
**CU231**

PLOT DATE: 2/13/2025 10:34 AM  
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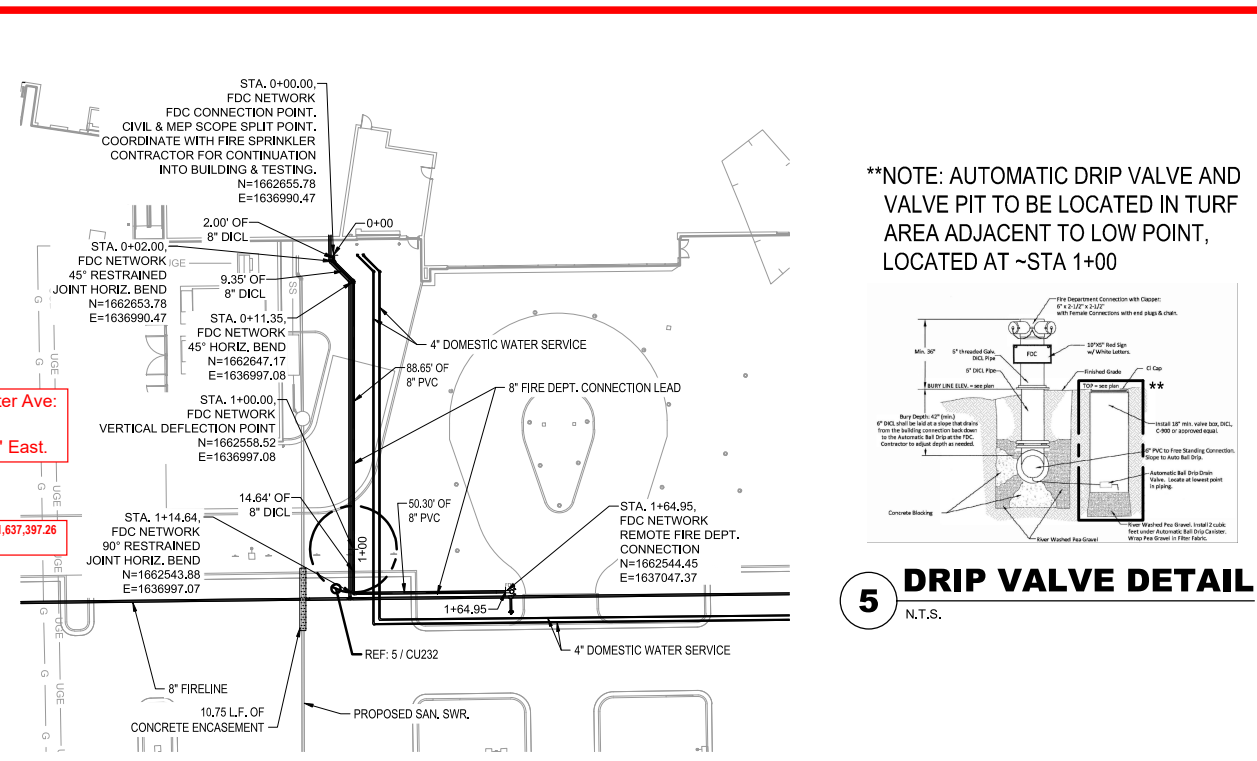


**SOUTH CENTRAL KS REGIONAL PSYCHIATRIC HOSPITAL**  
**SEDGWICK COUNTY**  
3901 SOUTH CUSTER AVENUE, WICHITA, KS 67217

AS104 02/14/2025  
PROJECT NO: 18170R24001  
STATUS: PERMIT DOCUMENTS  
DATE: 02/13/2025  
DRAWN BY: MTK  
CHECKED BY: KLH

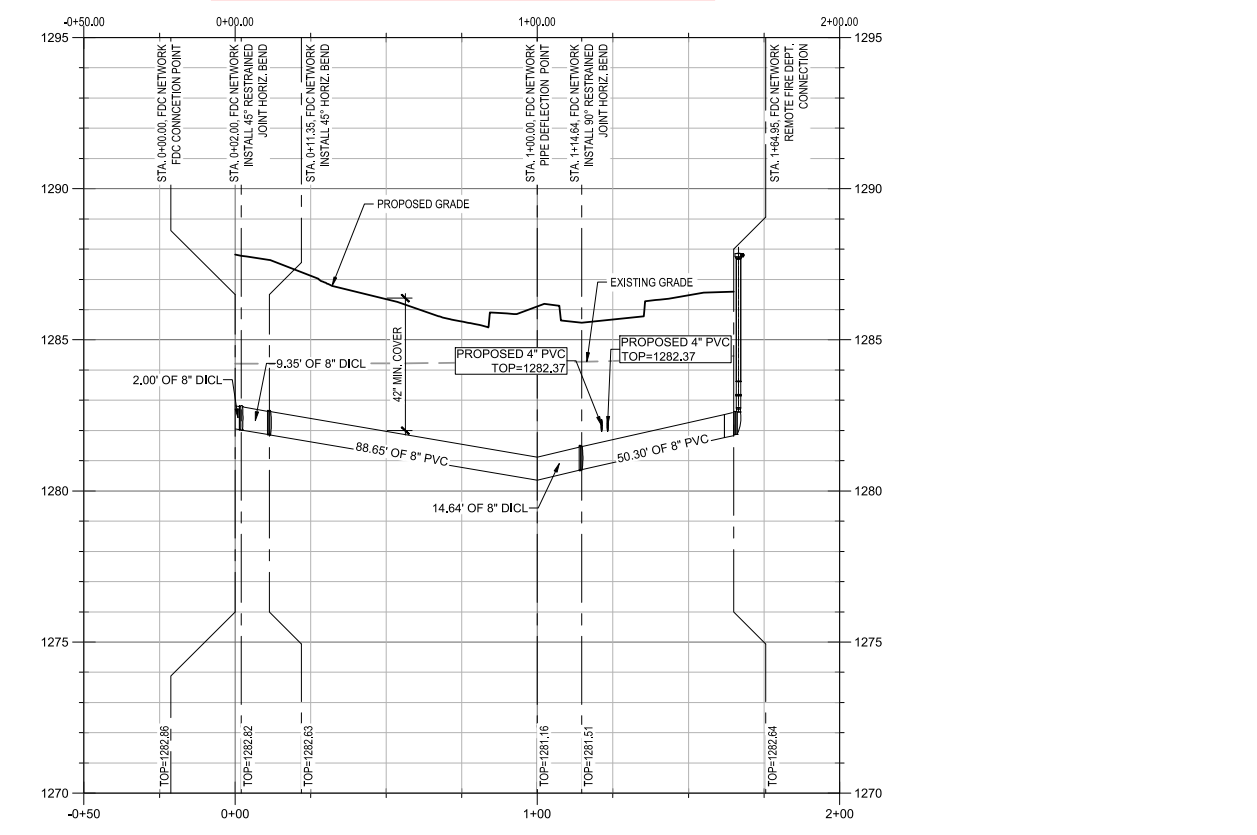
WATER  
PLAN & PROFILE

**CU232**

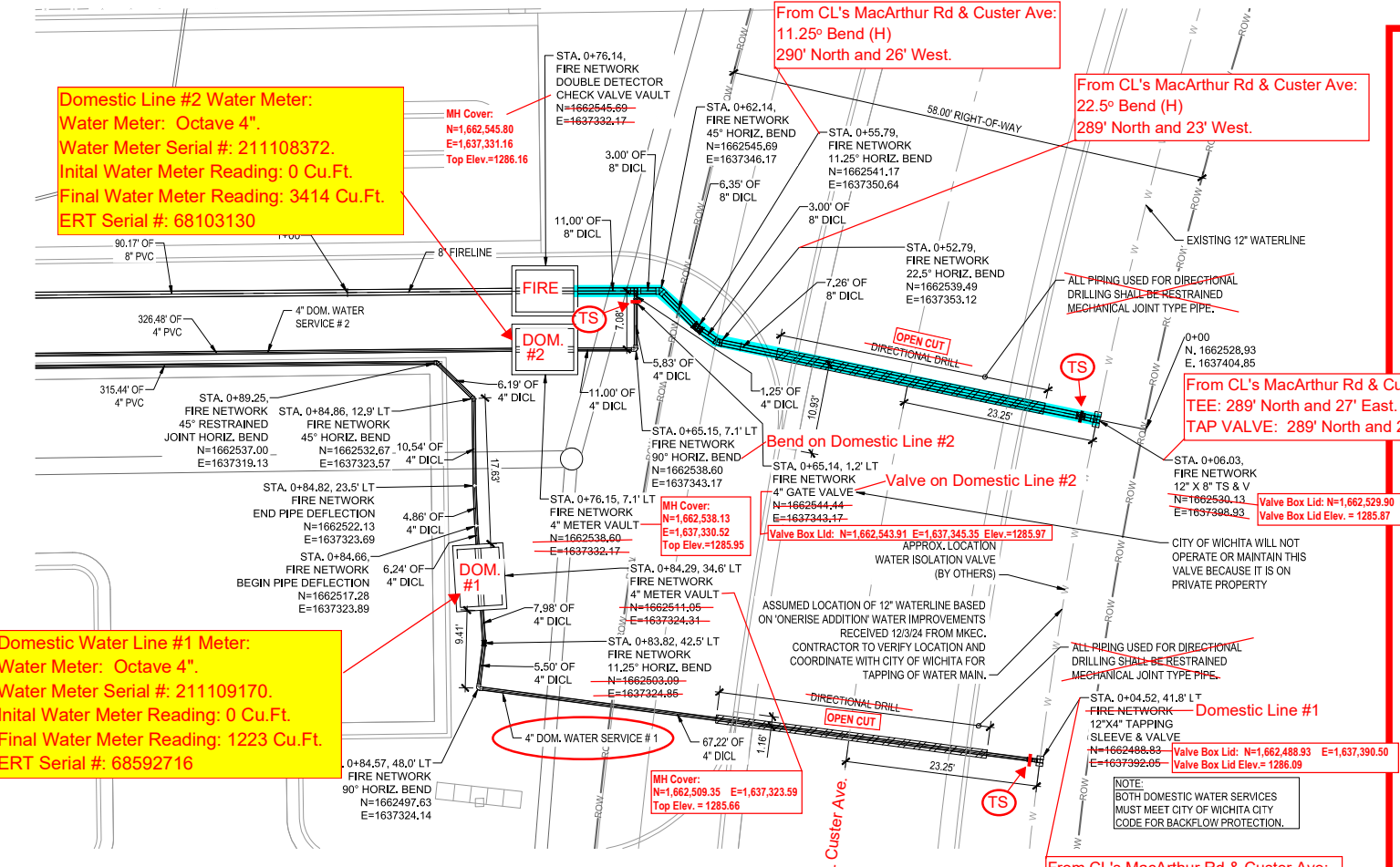


**3 WTR NETWORK - DRY LINE PLAN**  
NOTE: DRY LINE TO BE INSPECTED BY WICHITA F.D. State

**NOT PART OF PPW**

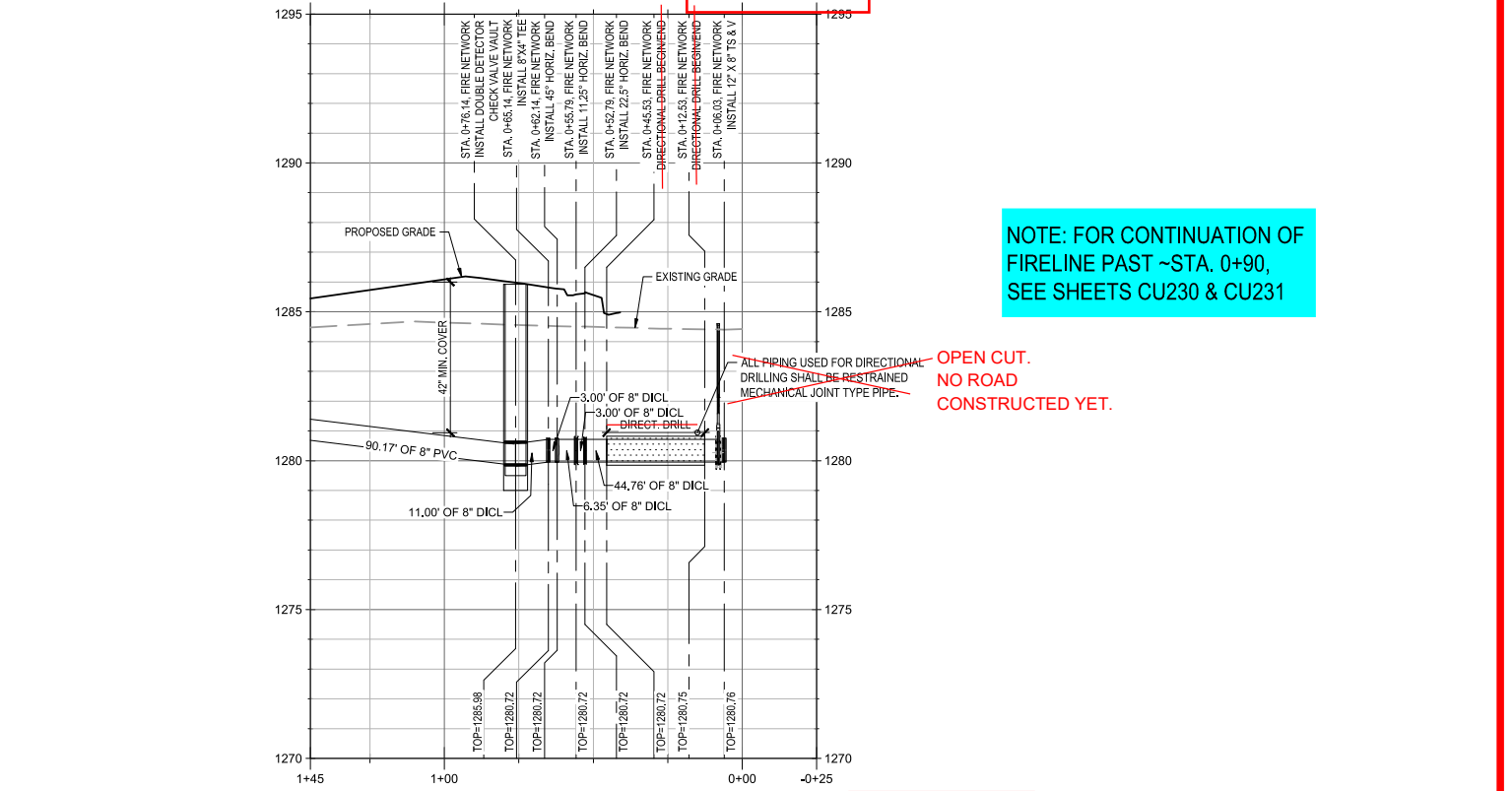


**4 WTR NETWORK - DRY LINE PROFILE**  
SCALE: HORIZONTAL: 1" = 30', VERTICAL: 1" = 3'



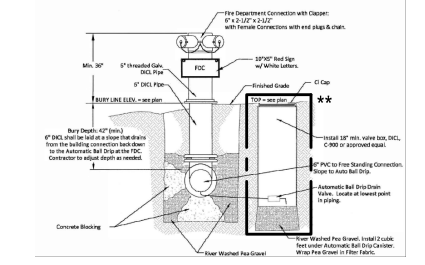
**1 WTR NETWORK ENLARGEMENT - FIRELINE**

Blue/green line above Fire line #1



**2 WTR NETWORK ENLARGEMENT - FIRELINE** Fire line #1  
SCALE: HORIZONTAL: 1" = 30', VERTICAL: 1" = 3'

**\*\*NOTE: AUTOMATIC DRIP VALVE AND VALVE PIT TO BE LOCATED IN TURF AREA ADJACENT TO LOW POINT, LOCATED AT ~STA 1+00**



**5 DRIP VALVE DETAIL**  
N.T.S.

**Domestic Line #2 Water Meter:**  
Water Meter: Octave 4".  
Water Meter Serial #: 211108372.  
Initial Water Meter Reading: 0 Cu.Ft.  
Final Water Meter Reading: 3414 Cu.Ft.  
ERT Serial #: 68103130

**Domestic Water Line #1 Meter:**  
Water Meter: Octave 4".  
Water Meter Serial #: 211109170.  
Initial Water Meter Reading: 0 Cu.Ft.  
Final Water Meter Reading: 1223 Cu.Ft.  
ERT Serial #: 68592716

From CL's MacArthur Rd & Custer Ave:  
11.25° Bend (H)  
290' North and 26' West.

From CL's MacArthur Rd & Custer Ave:  
22.5° Bend (H)  
289' North and 23' West.

From CL's MacArthur Rd & Custer Ave:  
TAP: 289' North and 27' East.  
TAP VALVE: 289' North and 26' East.

Valve Box Lid: N=1,662,529.90 E=1,637,397.26  
Valve Box Lid Elev. = 1285.87

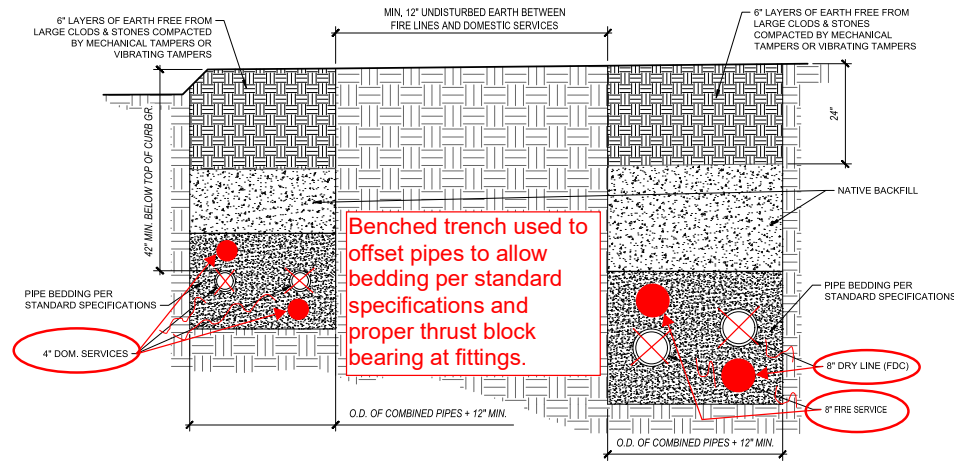
Valve Box Lid: N=1,662,488.93 E=1,637,390.50  
Valve Box Lid Elev. = 1286.09

From CL's MacArthur Rd & Custer Ave:  
TAP SLEEVE: 248' North and 27' East.  
TAP VALVE: 248' North and 26' East.

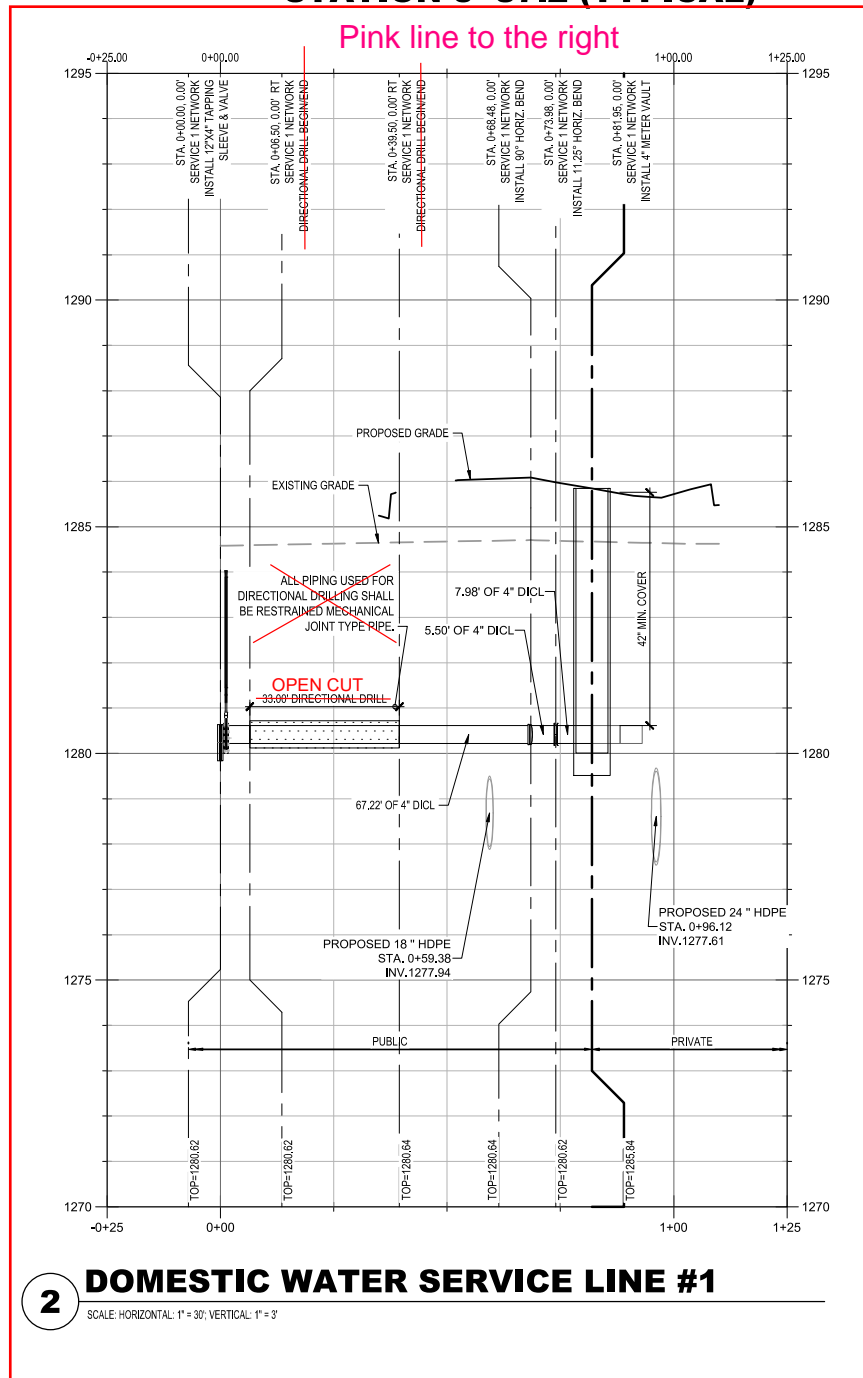
**NOTE: FOR CONTINUATION OF FIRELINE PAST ~STA. 0+90, SEE SHEETS CU230 & CU231**

**OPEN CUT. NO ROAD CONSTRUCTED YET.**

PLOT DATE: 2/13/2025 10:34 AM  
FILE PATH: \\sagim\file04\Projects\18170R24001\06-Site Development\4-Site Production\Drawings\Public Packages\PPW



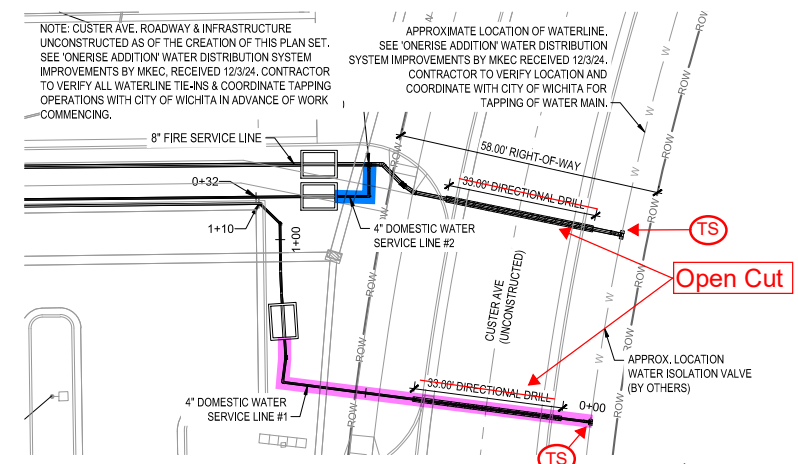
**1 COMBINED TRENCH SECTION & COMPACTION**  
 SCALE: N.T.S. **STATION 3+87.2 (TYPICAL)**



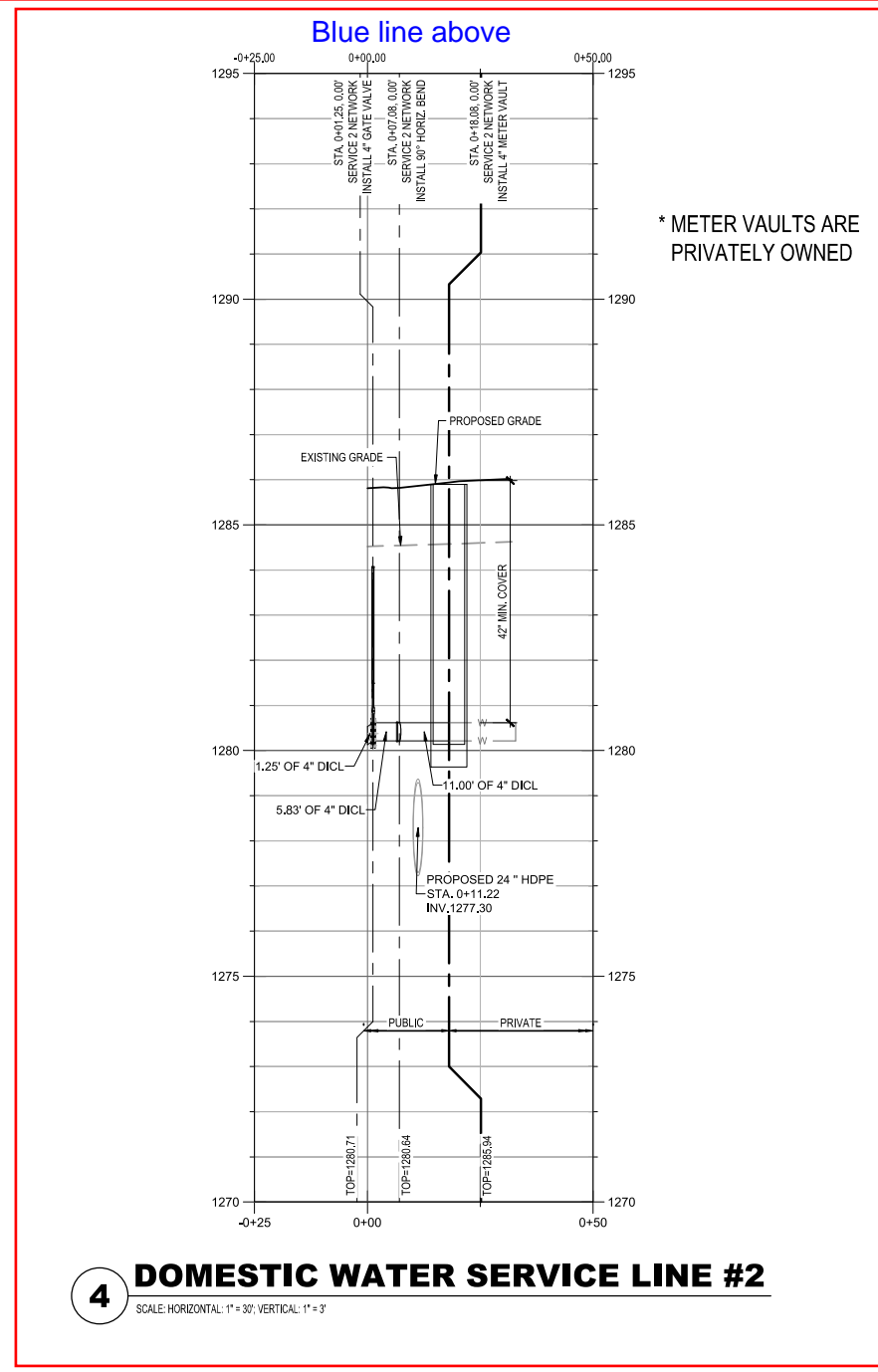
**2 DOMESTIC WATER SERVICE LINE #1**  
 SCALE: HORIZONTAL: 1" = 30'; VERTICAL: 1" = 3'

\* METER VAULTS ARE PRIVATELY OWNED

NOTE: FROM APPROXIMATELY STATION 0+90 & BEYOND, ALL WATER SERVICES OCCUPY COMMON TRENCH LOCATION WITH UNDISTURBED GROUND BETWEEN DOMESTIC AND FIRE LINES. FOR CONTINUATION OF PROFILE PAST STA. 0+90, SEE SHEETS CU230 & CU231.



**3 DOMESTIC WATER SERVICE LINES #1 & #2**  
 SCALE: 1" = 20'

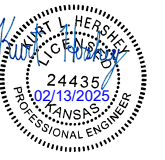


**4 DOMESTIC WATER SERVICE LINE #2**  
 SCALE: HORIZONTAL: 1" = 30'; VERTICAL: 1" = 3'

\* METER VAULTS ARE PRIVATELY OWNED



PLOT DATE: 2/13/2025 10:35 AM  
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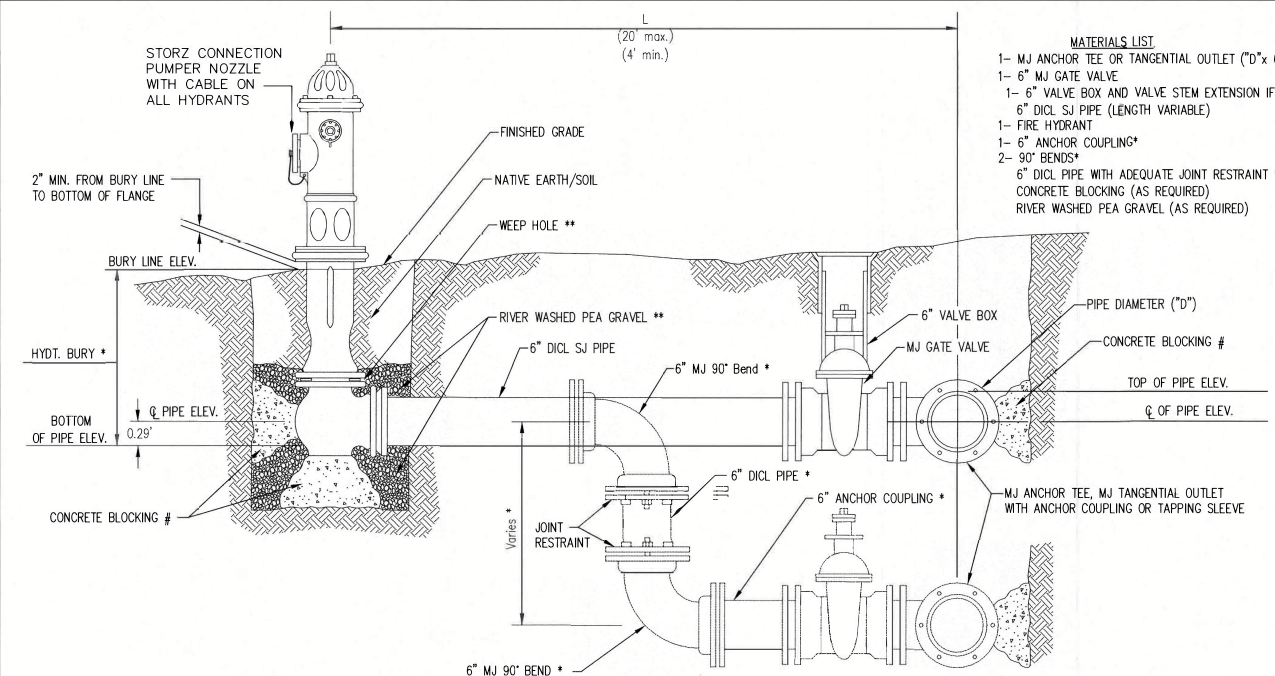


**SOUTH CENTRAL KS REGIONAL PSYCHIATRIC HOSPITAL**  
**SEDGWICK COUNTY**  
 3901 SOUTH CUSTER AVENUE, WICHITA, KS 67217

ASR 04	02/14/2025
PROJECT NO:	18170R24001
STATUS:	PERMIT DOCUMENTS
DATE:	02/13/2025
DRAWN BY:	MTK
CHECKED BY:	KLH

WATER  
 PLAN & PROFILE

**CU233**



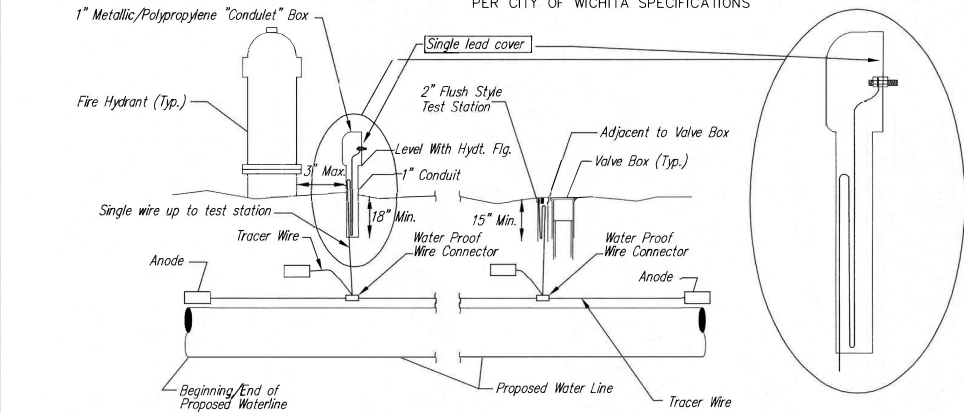
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (10" x 6")
  - 1- 6" MJ GATE VALVE
  - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED \*
  - 6" DI CL SJ PIPE (LENGTH VARIABLE)
  - 1- FIRE HYDRANT
  - 1- 6" ANCHOR COUPLING\*
  - 2- 90° BENDS\*
  - 6" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT \*
  - CONCRETE BLOCKING (AS REQUIRED)
  - RIVER WASHED PEA GRAVEL (AS REQUIRED)

\* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DI CL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEALUGS, OR SIMILAR RESTRAINT BETWEEN 90° BENDS TO SECURE ALL FITTINGS DURING TESTING AND OPERATION. THE CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS SHEET.

\*\* CAUTION: WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEA GRAVEL AROUND EACH WEEP HOLE.

# CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

**FIRE HYDRANT ASSEMBLY**  
PER CITY OF WICHITA SPECIFICATIONS



**TRACER WIRE**  
Conductive type pipe locator/tracer wire shall be install to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. A waterproof connector shall be used at splice locations. A complete list of approved tracer wire and waterproof connectors can be found on the City of Wichita's website at [www.wichita.gov](http://www.wichita.gov).

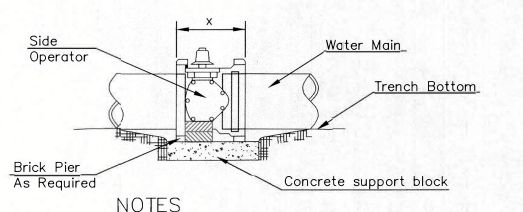
**WIRE**  
The tracer wire shall be Blue No. 12 AWG CCS with 45 mil HDPE insulation. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. Wire connectors shall be installed per manufacturer recommendations. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

**TEST STATIONS**  
The test station for fire hydrant application shall be a 1" "condulet" style station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized conduit with a minimum length of 36" and plastic end bushing. The flush style shall have the word "WATER" stamped or molded into the lid. The test station for valve applications shall be a 2" flush style test station with wire connector on lid. Model # T2PH7B1LP Handley Industries or CD14\*TP SnakePit as manufactured by Copperhead Industries or approved equal. The flush style shall have the word "WATER" stamped or molded into the lid. All test stations shall be manufactured using molded blue tops or sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be install to allow 12" of wire within the test station. The location of all test stations shall be recorded, and shown in the as-built drawings. Flush style test stations shall not be installed in pavement or sidewalk unless approved by the Engineer. Contractor shall extend tracer wire & move flush mount test station to nearest location out of pavement or sidewalk.

**ANODES**  
The anodes shall be 3 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to 12 AWG CCS which shall be extended to the test station.

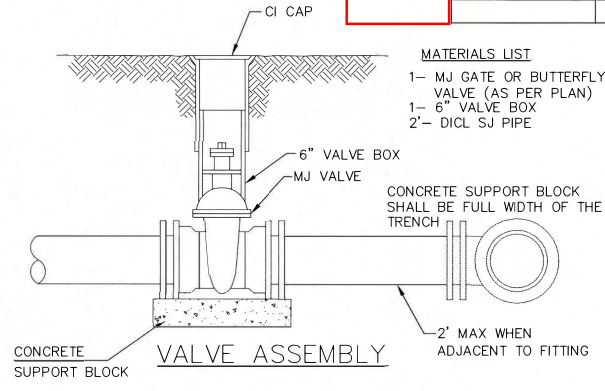
**TRACER WIRE DETAIL**  
COST IS SUBSIDIARY TO PIPE INSTALLATION

FIRE HYDRANTS REQUIRED						
BURY LINE ELEVATION	STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*	BARREL EXTENSION
1286.46	STA 3+58.18, 5.0' LT	1286.66	1282.24	5.0'	No	No
1285.23	STA 10+76.44	1286.06	1280.64	5.0'	No	No

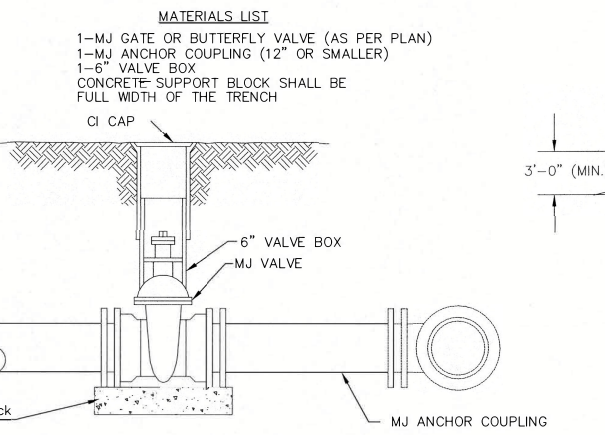


- NOTES**
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
  - 6" Valve Box and Cover required per City of Wichita Std. Specifications.
  - Conc. Support Block to be full width of trench.

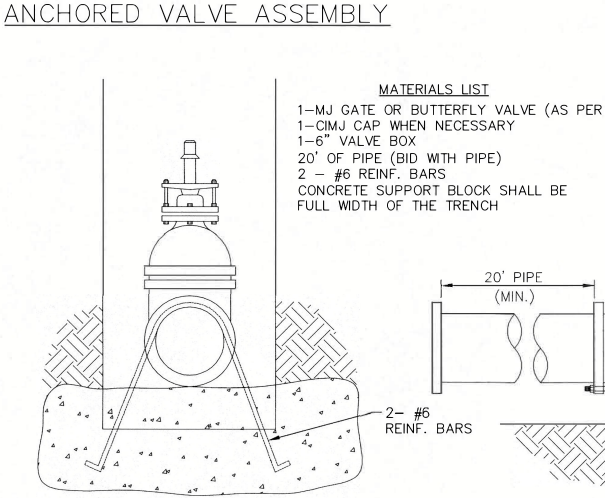
**CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION**



- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- 6" VALVE BOX
  - 2- DI CL SJ PIPE
- CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH



- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- MJ ANCHOR COUPLING (12" OR SMALLER)
  - 1- 6" VALVE BOX
- CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

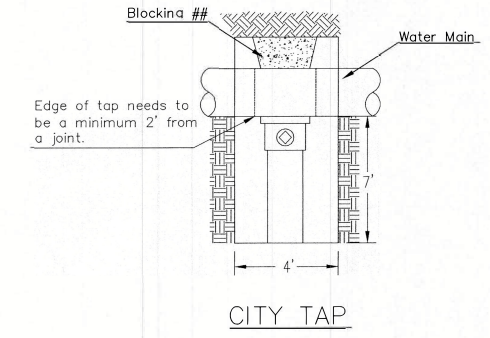


- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- CI MJ CAP WHEN NECESSARY
  - 1- 6" VALVE BOX
  - 20" OF PIPE (BID WITH PIPE)
  - 2 - #6 REINF. BARS
- CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

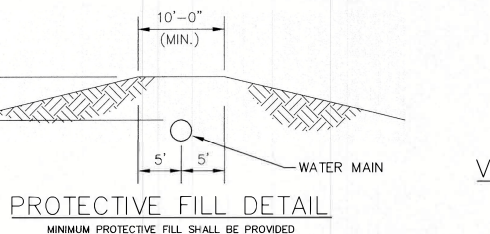
- Notes:**
- Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
  - The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
  - All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

THRUST AT VALVES	
VALVE	THRUST AT 150 #/sq
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

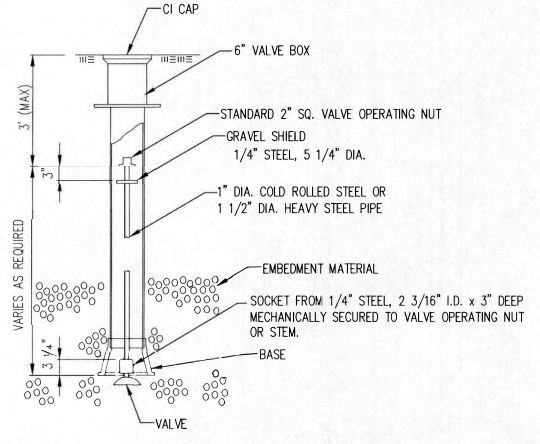
**ANCHORED VALVE ASSEMBLY, SPECIAL**



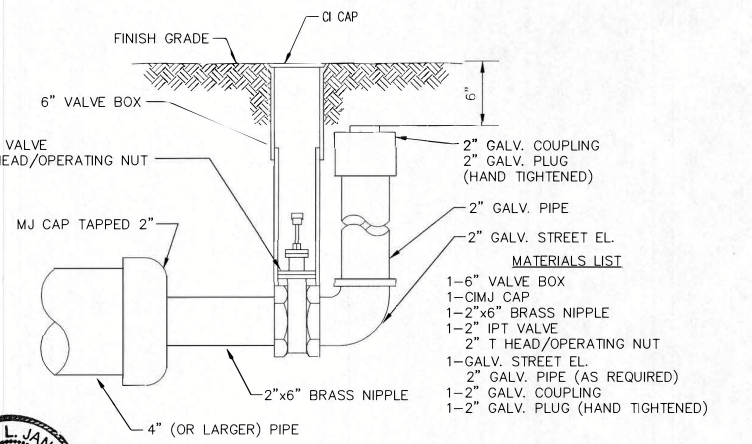
## When the City of Wichita makes tap, blocking is to be done by Contractor



MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3' (COST SUBSIDIARY TO PIPE INSTALLATION)



NOTE: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.



**2" BLOWOFF ASSEMBLY**



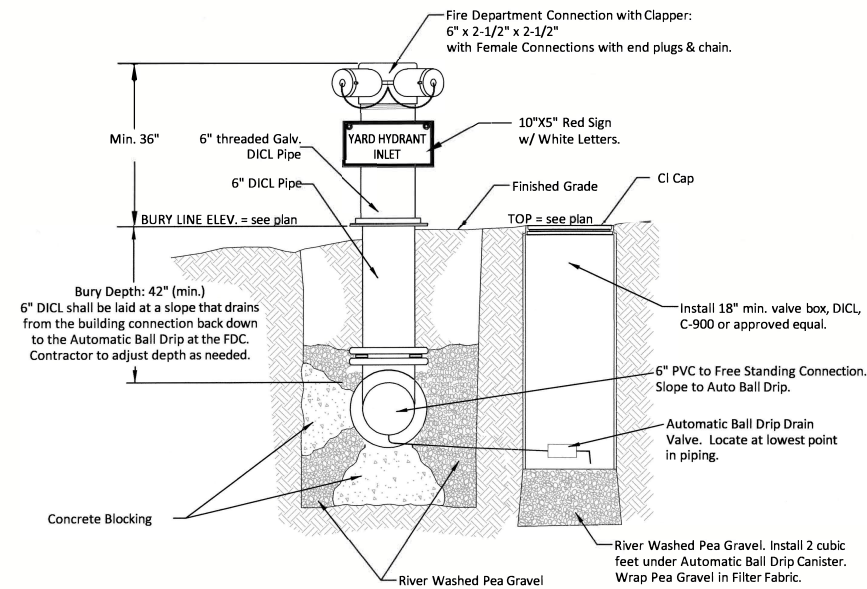
**CITY OF WICHITA**  
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

**STANDARD WATER ASSEMBLY DETAIL**  
CITY ENGINEER  
**GARY JANZEN, P.E.**

PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET <b>CU530</b>

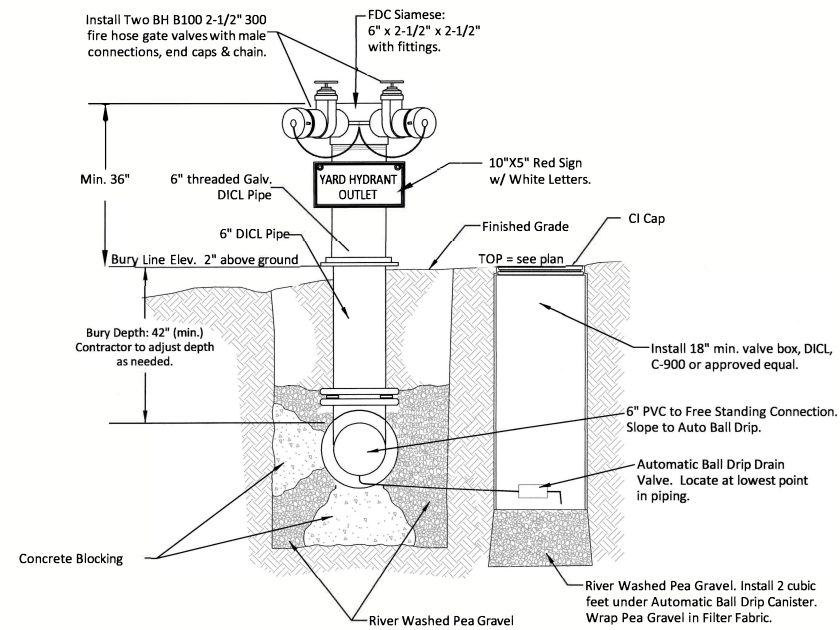
## FREE STANDING YARD HYDRANT (also called Dry Fire Line)

Inlet and Outlet to be used together to provide fire hydrant coverage on the far side of a building.



**1 FREE STANDING YARD HYDRANT INLET**  
NOT TO SCALE

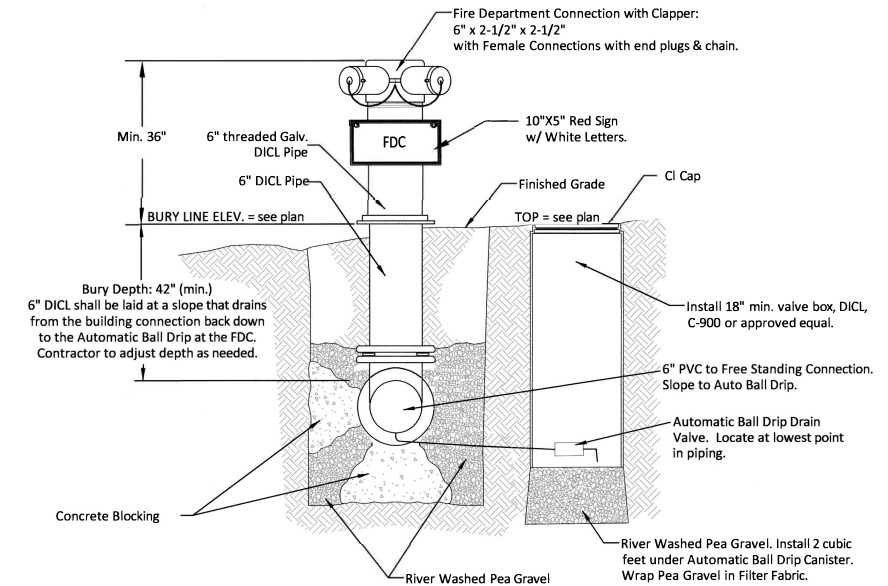
To be located within 150' of a Fire Hydrant



**2 FREE STANDING YARD HYDRANT OUTLET**  
NOT TO SCALE

## REMOTE FIRE DEPARTMENT CONNECTION

Same construction as Free Standing Yard Hydrant Inlet, with different sign. Used to boost interior sprinkler systems.



**REMOTE FIRE DEPARTMENT CONNECTION**  
NOT TO SCALE

To be located within 150' of a Fire Hydrant



**CITY OF WICHITA**  
PUBLIC WORKS & UTILITIES  
ENGINEERING DIVISION

FREE STANDING YARD HYDRANT AND REMOTE FDC DETAIL		
CITY ENGINEER <b>GARY JANZEN, P.E.</b>		
PROJECT NUMBER	OCA NUMBER	DATE SEPTEMBER 2019
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET <b>CU534</b>

Topographic Survey  
Onerise Addition  
Reserve B-2 & New Lot 3

FOR REFERENCE ONLY

LEGEND

- (D) Described per CUP
- (C) Calculated
- (M) Measured
- (P) Plotted
- Control Points
- Calculated Point
- Found 1/2" Pipe
- Found 1/2" Rebar (Origin Unknown)
- Power Pole
- Cable Riser
- Sanitary Sewer Manhole
- Sign
- Guy Anchor
- Fence
- DHE Overhead Electric Line
- UCL Communication Line
- PP=Power Pole
- ET=Electric Transformer

State of Kansas }  
County of Sedgwick } SS

I, Chad R. Abbott, PS #1340, do hereby certify that this Topographic Survey was performed by me or under my direct supervision and that I am a duly licensed Land Surveyor in the State of Kansas.

**Location:**  
NEW Lot 3:  
A contiguous tract of land lying within all of Lot 3, Block 1 and a portion of Reserve B, Onerise Addition, an addition to Wichita, Sedgwick County, Kansas, as prepared by Michael E. Small, Professional Surveyor, License number 1390 on March 1, 2024, said contiguous tract of land being described as follows:  
BEGINNING at the southwest corner of said Lot 3, thence along the extended west line of said Lot 3 and said Reserve B on a plotted bearing of N00°55'52"W, 626.42 feet; thence N72°30'55"E, 249.14 feet; thence N89°12'52"E, 80.00 feet; thence S74°05'10"E, 156.60 feet; thence N89°12'52"E, 126.26 feet; thence S54°13'55"E, 185.81 feet to a point on the east line of said Reserve B, being common to the west right-of-way line of South Custer Avenue, also being a point on a non-tangent curve to the right, said curve having a radius of 771.00 feet, a central angle of 15°43'33", a chord bearing of S17°23'53"W, and a chord distance of 210.95 feet; thence along said west right-of-way line, the extended east lines to said Reserve B and said Lot 3 and along said non-tangent curve to the right, 211.61 feet to a point on a curve to the left, said curve having a radius of 629.00 feet, a central angle of 26°02'47", a chord bearing of S12°14'16"W, and a chord distance of 283.48 feet; thence continuing along said west right-of-way line and said east line of said Lot 3 for the next two courses, and along said curve to the left, 285.94 feet; thence S00°47'08"E, 65.74 feet to the southeast corner of said Lot 3; thence along the south line of said Lot 3, S89°12'52"W, 612.85 feet to the POINT OF BEGINNING.

**NEW Reserve B-1**  
A contiguous tract of land lying within portions of Lot 2, Block 1, and Reserve B, Onerise Addition, an addition to Wichita, Sedgwick County, Kansas, as prepared by Michael E. Small, Professional Surveyor, License number 1390 on March 1, 2024, said contiguous tract of land being described as follows:  
COMMENCING at the southwest corner of Lot 3, said Block 1, thence along the extended west line of said Lot 3 and said Reserve B on a plotted bearing of N00°55'52"W, 703.69 feet to the POINT OF BEGINNING; thence continuing along said extended west line of said Reserve B and the west line of said Lot 2, N00°55'52"W, 168.10 feet; thence N89°12'52"E, 166.68 feet; thence S74°05'10"E, 80.00 feet; thence N89°12'52"E, 80.00 feet; thence N72°30'55"E, 156.60 feet; thence N89°12'52"E, 99.66 feet; thence S54°13'55"E, 224.25 feet to a point on the east line of said Lot 2, being common to the west right-of-way line of South Custer Avenue, also being a point on a non-tangent curve to the right, said curve having a radius of 771.00 feet, a central angle of 08°07'46", a chord bearing of S02°39'33"E, and a chord distance of 109.30 feet; thence along the extended east line of said Lot 2, said Reserve B, and said west right-of-way line, and along said non-tangent curve to the right, 109.39 feet; thence N54°13'55"W, 149.85 feet; thence N86°05'18"W, 436.14 feet; thence S69°27'34"W, 213.80 feet to the POINT OF BEGINNING.

Date of Survey: June 13, 2024  
Date of Preparation: June 21, 2024

Chad R. Abbott, PS #1340

NOTES

1. Basis of Bearing = KS State Plane, Grid North
2. Elevation Datum = NAVD88
3. Utilities located by above ground observation and per KS One Call Ticket No. 24297495.

Abbott  
and  
Survey

631 N. Kessler, Wichita, KS 67203  
Ph. 316.262.2262 Fax 316.262.2268  
surveyors@benchmarks.net

Dwn By: AMF Approved By: CRA  
Dwg. No: A24-06-018 Scale: 1" = 30'