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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 687-2470
The Contractor must notify the following in case of an emergency:
AT&T 1-800-245-8464
Black Hills Energy 1-800-694-8989
City of Wichita Water & Sewer 1-316-219-0821
City of Wichita Stormwater 1-316-268-4580
City of Wichita Traffic 1-316-268-4034
Cox Communications 1-888-249-3530
Kansas Gas Service 1-888-482-4950
Wester 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 plain 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 archaeological 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 adjoining 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 re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established 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 Tom Mason at 316-268-4574 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, Brian Coon at traffic@cityofwichita.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 (top, 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 316-268-4555.
- 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 pipes installed in accordance with City Specifications and Tracer Wire Detail on detail sheet ML-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 inch 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 316-268-4441.

Benchmarks

BM#900: Northing 1657310.48, Easting 1651102.38. Chiseled square on SE corner of SW 1st. 1st inlet W of NE entrance, S side of 47th. Elev. = 1272.09 NAVD88
BM#901: Northing 1657075.42, Easting 1650348.46. Chiseled square on top of curb at the SW corner of Madison lot and E. side of Broadway. Elev. = 1274.44 NAVD88
BM#902: Northing 1658473.65, Easting 1650348.45. Chiseled square on front center of inlet south of SW entrance at SW corner of lot by Carlos O Kelly's. Elev. = 1274.72 NAVD88

Summary Table:

4" DICL = 42 LF
6" DICL = 20.5 LF
4" 45 degree Fittings = 2 Each (SIP)
FH = 1 Each (AFC American Darling)

WATER DISTRIBUTION SYSTEM


to serve

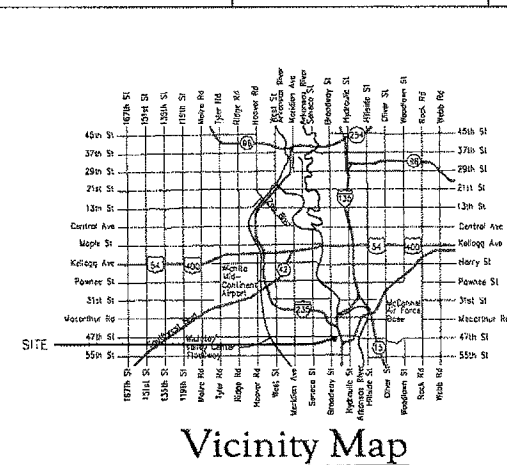
CSL Plasma

Good for You. Great for Life.

4830 SOUTH BROADWAY CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer

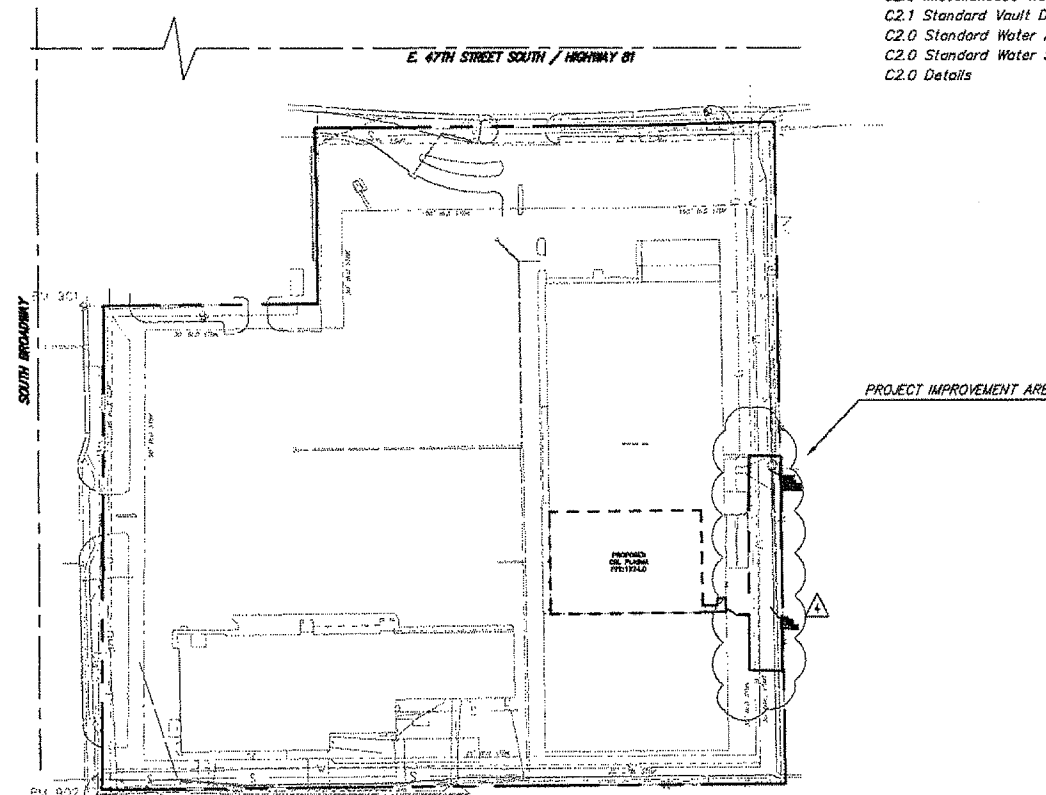
Project Number
2242 PPW (183021) 



Vicinity Map

Sheet Index

- C0.0 Cover Sheet
- C1.0 Private Fire Line Plan & Profile
- C2.0 Miscellaneous Water Details
- C2.1 Standard Vault Details and Meter Assemblies
- C2.0 Standard Water Assembly Detail
- C2.0 Standard Water Service Detail
- C2.0 Details



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

Engineering Nith Holchuy 6-25-19
Utilities Dean Cole 6-25-19
Fire Dept. J. Wall 6-25-19

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 right-of-way by the Contractor without written authorization by City Engineering. All Construction and Materials shall comply with the City or Wichita Specifications and Standards and Special Provision (as 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 are required on-site.

May 2019

Design Consultants

ARCHITECT: CIVIL ENGINEER:

NOVUS ARCHITECTS
900 JOHNNIE DODDS BLVD. SUITE 200
P.O. BOX 1005
MT. PLEASANT, SC 29468
843.849.7407

BRITT, PETERS & ASSOCIATES, INC.
101 FALLS PARK DRIVE SUITE 601
GREENVILLE, SC 29601
864.271.8889

AS-BUILTS
Contractor: Buck Plumbing, Inc.
Superintendent: Brannon Cole 316-200-2804
Inspector: Dean Wallace / CED
Date of Completion: 10-25-2019

BRITT PETERS
AND
ASSOCIATES
INC.
consulting engineers

101 Falls Park Drive
Suite 601
Greenville, SC 29601
(864) 271-8889
Fax: (864) 233-5140
www.britt-peters.com
BPA Job #: 190167

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WICHITA, KS 67216

COVER SHEET

No.	Description	Date
1	Addendum #2	06/18/19
2	Addendum #3	06/18/19
3	CR #1	06/18/19

DRAWN BY: TAH
CHECKED BY: JAC
DATE: 04/22/2019
NOVUS JOB NUMBER:
2001.1013.39

SHEET NUMBER
C0.0

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DEMOLITION NOTES

1. THE LOCATIONS OF ALL UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UTILITIES WITH THE UTILITY OWNERS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. VERIFY ALL DEMOLITION IN THE RIGHT OF WAY WITH THE APPROVED ENCROACHMENT PERMIT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY DUMPING OR BURNING PERMITS.
4. ALL EXISTING TO REMAIN SHALL BE PROTECTED FROM DAMAGE. IN THE EVENT THAT EXISTING ITEMS TO REMAIN ARE DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO COST TO THE OWNER.
5. THE CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN THE LIMITS OF DISTURBANCE AND NOT NOTICED TO BE PROTECTED. REMOVE DEBRIS FROM SITE OR BURN IN ACCORDANCE WITH LOCAL LAWS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS (UNLESS OTHERWISE NOTED ON THE PLANS) INCLUDING, BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITY'S REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN THE BASE BID.
7. ALL DEPRESSIONS FORMED BY DEMOLITION SHALL BE FILLED.

SITE NOTES

1. EXISTING SITE CONDITIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DIFFERENCES FROM THE PLAN THAT WILL AFFECT CONSTRUCTION IN WRITING TO THE ENGINEER AND AWAIT FURTHER INSTRUCTIONS.
2. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS AND THE JOB SITE. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER WHO PREPARED THE PLANS OF ANY DISCREPANCIES THAT MAY REQUIRE MODIFICATIONS TO THESE PLANS OR OF ANY FIELD CONFLICTS.
3. ALL WORK IN THE RIGHT OF WAY SHALL BE VERIFIED WITH THE APPROVED ENCROACHMENT PERMIT PRIOR TO COMMENCING WORK.
4. ALL PERMITS RELATIVE TO THE PROJECT MUST BE OBTAINED PRIOR TO CONSTRUCTION. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY AND LOCAL CODES.
5. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE MEASURED FROM OUTSIDE FACE OF BUILDING WALL, FACE OF CURB LINE, OR PROPERTY LINE UNLESS OTHERWISE NOTED.
6. AN ELECTRONIC FILE OF THE SITE PLAN SHALL BE MADE AVAILABLE FOR STAKING PURPOSES.
7. ALL REFERENCE TO STATE STANDARDS AND SPECIFICATIONS ARE MADE FROM THE KANSAS HIGHWAY DEPARTMENT'S STANDARD SPECIFICATION, LATEST EDITION.
8. IF ANY CONFLICTS BETWEEN THE NOTES, DETAILS, SPECIFICATIONS, AND DRAWINGS OCCUR THEN BY RULE THE STRICTER SHALL GOVERN.
9. THE CONTRACTOR SHALL MAINTAIN AN "AS BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT.
10. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND OSHA STANDARDS.
11. THE CONTRACTOR IS EXCLUSIVELY RESPONSIBLE FOR THE CONDITION OF THE SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THROUGHOUT THE TERM OF THE PROJECT CONSTRUCTION.
12. THE ENGINEER'S REVIEW OF THE CONTRACTOR'S WORK PRODUCT AND PERFORMANCE WILL NOT INCLUDE REVIEW OF THE CONTRACTOR'S SAFETY PROGRAMS. SUCH REVIEW ARE TO BE BY OSHA INSPECTORS AND THE OWNER'S REPRESENTATIVE.
13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL NECESSARY TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE LOADED OR OFF-LOADED ON AN OPEN ROADWAY. IF SUCH ACTIVITY IS REQUIRED THE CONTRACTOR SHALL COORDINATE SHUTTING DOWN THE ROAD WITH THE APPROPRIATE DOT AND UTILIZE APPROPRIATE TRAFFIC CONTROL WARNING DEVICES.
14. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS. ACCESS SHALL BE LIMITED UNTIL PERMISSION IS GRANTED.
15. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE CONSTRUCTION LIMITS BROOM CLEAN AT ALL TIMES AND REMOVE ALL TRASH AND DEBRIS FROM THE SITE.

UTILITY NOTES

- GENERAL:**
1. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
 2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY'S INSPECTOR 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
 3. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE 6" ABOVE FINISHED GROUND ELEVATIONS.
 4. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRE BY CODES AND/OR UTILITY SERVICE COMPANIES.
- WATER:**
1. PVC DENOTES POLYVINYL CHLORIDE PIPE. PVC SHALL BE MADE IN ACCORDANCE WITH AND CONFORMING TO AWWA STANDARD SPECIFICATIONS FOR POLYVINYL CHLORIDE PIPE, C-900 OR C-905 DEPENDING ON PIPE DIAMETER, OR THE LATEST REVISIONS THEREOF. THE PIPE SHALL BE DR-18, UNLESS OTHERWISE SHOWN ON THE PLANS, AND BE CAST IRON OUTSIDE DIAMETER. THE PIPE SHALL USE COUPLINGS OR WAVE BELL ENDS SEPARATION. EQUIVALENT PROTECTION SHALL BE REQUIRED. REINFORCED CONCRETE ENCASUREMENT OF THE SANITARY SEWER IS ONE SUCH PROTECTIVE MEASURE THAT MAY BE USED.
 2. ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 42", UNLESS NOTED OTHERWISE.
 3. WHEN POTABLE WATER PIPES AND SANITARY SEWERS ARE LAID PARALLEL TO EACH OTHER, THE HORIZONTAL DISTANCE BETWEEN THEM SHALL BE NOT LESS THAN 10 FEET. THE DISTANCE SHALL BE MEASURED FROM EDGE TO EDGE. THE LAYING OF WATER PIPES AND SANITARY SEWERS SHALL BE IN SEPARATE TRENCHES WITH UNDISTURBED EARTH BETWEEN THEM. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10-FOOT SEPARATION, EQUIVALENT PROTECTION SHALL BE REQUIRED. REINFORCED CONCRETE ENCASUREMENT OF THE SANITARY SEWER IS ONE SUCH PROTECTIVE MEASURE THAT MAY BE USED.
- WHEN A WATER PIPE AND SANITARY SEWER CROSS AND THE SEWER IS 2 FEET OR MORE (CLEAR SPACE) BELOW THE WATER PIPE, NO SPECIAL REQUIREMENTS OR LIMITATIONS ARE PROVIDED HEREIN. AT ALL OTHER CROSSINGS, THE SANITARY SEWER IS TO BE CONSTRUCTED OF DUCTILE IRON PVC OR REINFORCED CONCRETE PIPE, MEETING THE REQUIREMENTS SPECIFIED IN SUBSECTION 804.2, AND PRESSURE TESTED TO ASSURE WATER TIGHTNESS PURSUANT TO CHAPTER VI OF THE KDIH MINIMUM STANDARD OF DESIGN OF WATER POLLUTION CONTROL FACILITIES.

JOINTS IN THE SEWER PIPE SHALL BE LOCATED AS FAR AS PRACTICAL FROM THE INTERSECTED WATER MAIN. A DISTANCE OF 10 FEET IS TO BE MAINTAINED AS THE DISTANCE OF THE SEWER JOINT TO THE WATER LINE. WHERE THE WATER MAIN IS LAID ACROSS OR THROUGH AN AREA WHERE THERE IS AN EXISTING SANITARY SEWER, WHICH IS NOT CONSTRUCTED OF ONE OF THE ABOVE SPECIFIED MATERIALS, AND IS TWO FEET (2') OR LESS BELOW THE WATER PIPE, THE EXISTING SANITARY SEWER SHALL BE ENCASED WITH REINFORCED CONCRETE WITH A MINIMUM OF SIX TO EIGHT INCHES (6" TO 8") THICKNESS FOR A TEN-FOOT (10') DISTANCE ON EACH SIDE OF THE CROSSING OR THE CROSSED SECTION OF SEWER REPLACED TO MEET THE ABOVE SPECIFIED CONSTRUCTION REQUIREMENTS. 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.

4. CONNECT TO EXISTING MUNICIPAL WATER SYSTEM IN COMPLIANCE WITH THE UTILITY REQUIREMENTS FOR NEW SERVICE CONNECTIONS.

5. THRUST BLOCKS OR MECHANICAL JOINT RESTRAINTS SHALL BE USED AT ALL BENDS AND TEES. REFER TO C2.0.

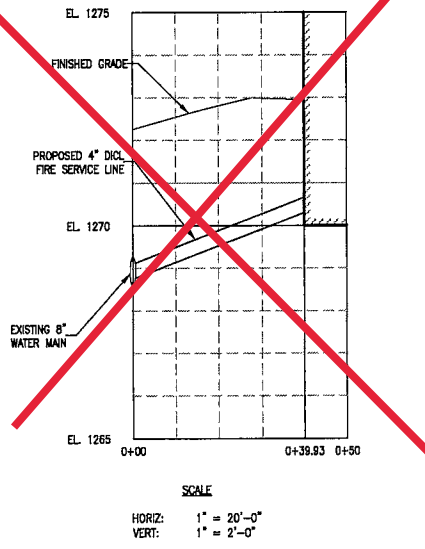
6. ALL DOMESTIC WATER LINES SHALL BE DISINFECTED PER AWWA REQUIREMENTS OR STATE REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

7. WATER INSTALLATION SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.

- PAVEMENT NOTES**
1. ALL PAVING WORK (MATERIALS AND CONSTRUCTION) SHALL COMPLY WITH KDOT STANDARDS AND SPECIFICATIONS FOR ASPHALTIC CONCRETE PAVEMENT (REFER TO C2.0 FOR PAVEMENT SECTION DETAILS).
 2. ALL PAVEMENT SHALL BE INSTALLED ON A FINISHED AND WELL-DRAINED SUBGRADE COMPACTED AS SPECIFIED IN PREVIOUS NOTES.
 3. BASE COURSE MATERIAL FOR ASPHALTIC CONCRETE PAVEMENT SHALL BE REINFORCED CRUSHED ROCK BASE AND COMPACTED TO 95% MODIFIED PROCTOR.

The project was not constructed as designed. See attachment at end of plans for correct locations.

PROPOSED CSL PLASMA
FFE:1274.0



FIRE SERVICE LINE PROFILE

UTILITY LEGEND

	EXISTING	PROPOSED
FIRE LINE REFER TO NOTES	---	-F-
WATER LINE REFER TO NOTES	---	-W-
SEWER LINE REFER TO NOTES	---	-S-
SEWER MAIN REFER TO NOTES	---	-SM-
ELECTRIC	---	-UGE-
GAS	---	-G-
TELEPHONE	---	-UGT-
STORM PIPE	---	---
STORM STRUCTURE	⊙	⊙
SANITARY MANHOLE	⊙	⊙
SANITARY CLEAN-OUT REFER TO DETAIL	⊙	⊙

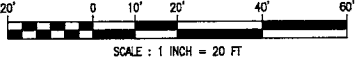
LEGEND

- ⊙ DENOTES AREA ASPHALT PAVEMENT. REFER TO DETAIL.
- ⊙ TEMPORARY INLET PROTECTION (SEDIMENT TUB). REFER TO DETAIL.

KEYNOTES:

1. SEWER MAIN EXTENSION. REFER TO SEWER SUBMITTAL FOR MORE INFORMATION.
2. THE CITY OF WICHITA WATER UTILITY WILL TAP EXISTING 8" AC PIPE WITH 4" FIRE SERVICE LINE. REFER TO PROFILE FOR FIRE LINE TO BUILDING. REFER TO A/E PLANS FOR CONTINUATION. REMOVE AND REPLACE PAVEMENT AS NEEDED FOR INSTALLATION OF FIRE SERVICE LINE.
3. THE CITY OF WICHITA WATER UTILITY WILL TAP EXISTING 8" AC PIPE AND INSTALL THE WATER SERVICE FROM THE MAIN TO THE METER AND 2" WATER METER. REMOVE AND REPLACE PAVEMENT AS NEEDED FOR INSTALLATION OF DOMESTIC SERVICE LINE.
4. INSTALL 65± LF OF 2" PVC DOMESTIC SERVICE LINE FROM METER TO BUILDING. REFER TO A/E PLANS FOR CONTINUATION. REMOVE AND REPLACE PAVEMENT AS NEEDED FOR INSTALLATION OF DOMESTIC SERVICE LINE.
5. FDC ON FACE OF BUILDING. REFER TO FP101 FOR FURTHER INFORMATION.
6. THE CITY OF WICHITA WATER UTILITY WILL TAP EXISTING 8" AC PIPE FOR A 6" DI. CONTRACTOR SHALL INSTALL 25± LF OF DI. TO PROPOSED FIRE HYDRANT. REFER TO C2.0 FOR DETAILS. REMOVE AND REPLACE PAVEMENT/ CURBING AS NEEDED FOR INSTALLATION.
7. INSTALL FIRE HYDRANT.

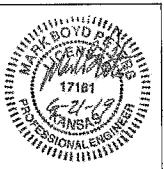
REFER TO SHEET C1.0 (SITE NOTES) FOR NOTES AND SPECIFICATIONS.



BRITT PETERS AND ASSOCIATES INC. consulting engineers
101 Falls Park Drive
Suite 601
Greenville, SC 29601
(864) 271-8869
Fax (864) 233-5140
www.brittpeters.com
BPA Job #: 190167



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CSL NEW CENTER - WICHITA, KS
4830 S. BROADWAY AVE.
WICHITA, KS 67216

FIRE LINE PLAN & PROFILE

REVISIONS

No.	Description	Date
1	Addendum #2	06/18/19
2	Addendum #3	06/19/19
3	CR #1	06/19/19

DRAWN BY: TAH
CHECKED BY: JAC
DATE: 04/22/2019

NOVUS JOB NUMBER
2001.1013.39

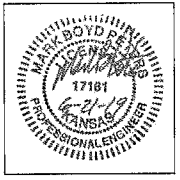
SHEET NUMBER
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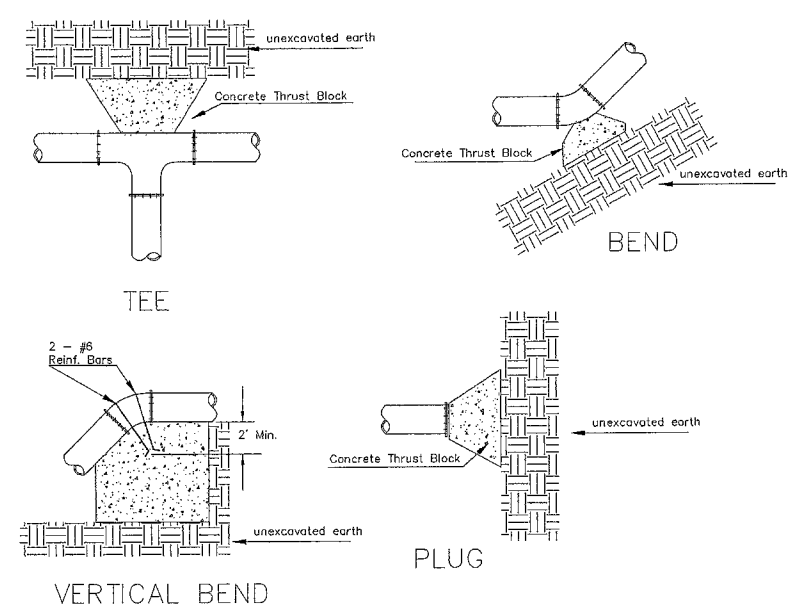
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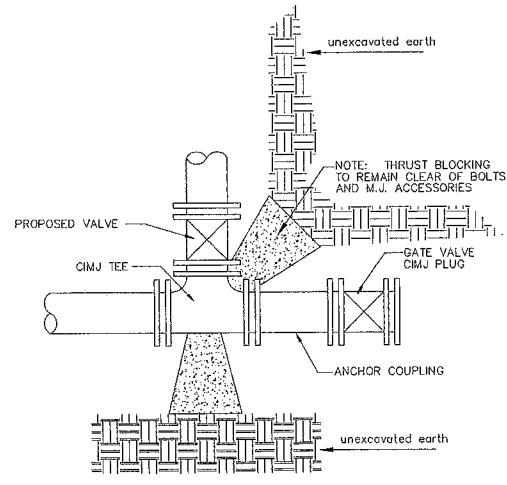
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 WICHITA, KS 67216
 MISCELLANEOUS WATER DETAILS

CONSTRUCTION DOCUMENTS



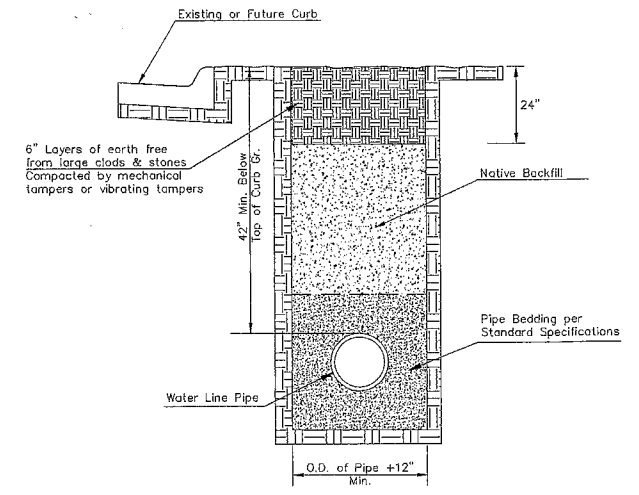
PIPE SIZE	THRUST AT FITTINGS IN TONS - AT 150#/IN ² P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.96	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

TYPICAL THRUST BLOCKS

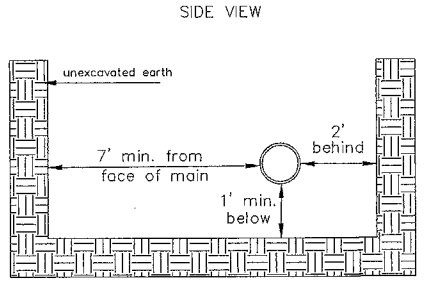


KEY BLOCK DETAIL

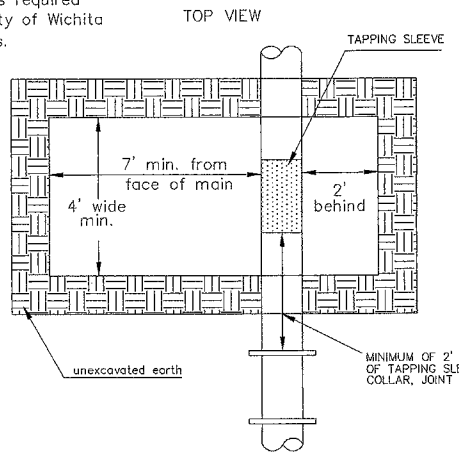
* PLANS GOVERN
 UNLESS OTHERWISE NOTED ON PLANS



TRENCH COMPACTION IN ROAD RIGHT-OF-WAY



SIDE VIEW

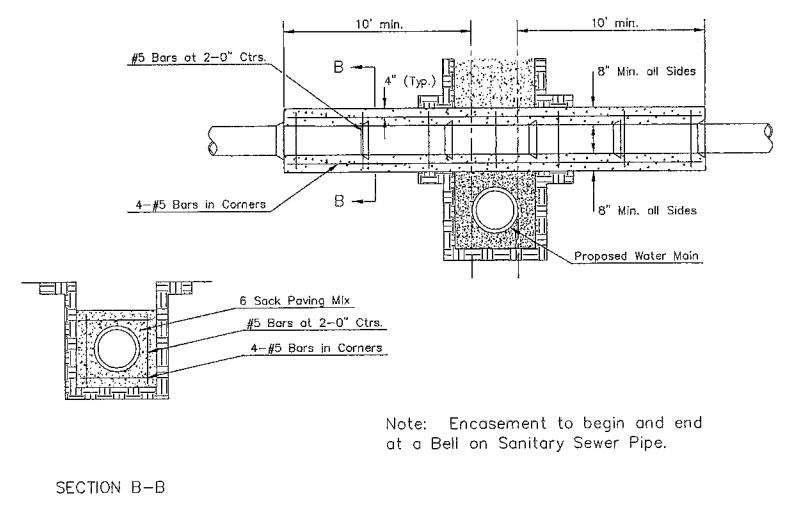


TOP VIEW

EXCAVATION FOR WET TAP

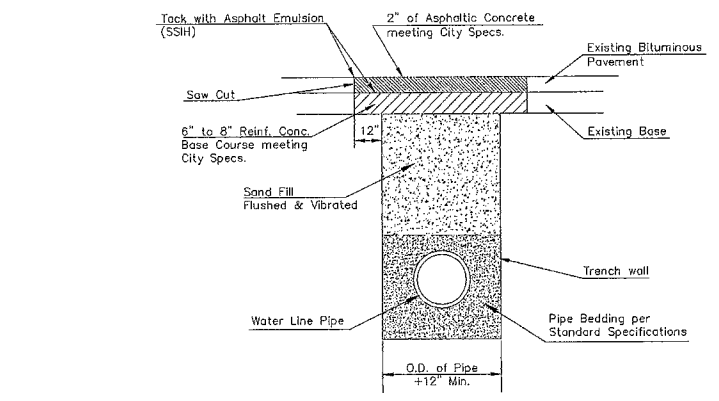
Note: When shoring is required it is to be per The City of Wichita Standard Specifications.

MINIMUM OF 2' FROM EDGE OF TAPPING SLEEVE TO COLLAR, JOINT OR EXISTING FITTING

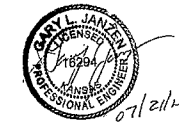


REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER

Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.



PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS



CITY OF WICHITA
 PUBLIC WORKS & UTILITIES
 ENGINEERING DIVISION

MISCELLANEOUS WATER DETAILS
 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) 288-4501

REVISIONS: Δ

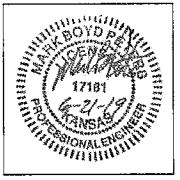
No.	Description	Date
1	Addendum #2	05/16/19
2	Addendum #3	06/10/19
4	CR #1	06/19/19

DRAWN BY: TAH
 CHECKED BY: JAC
 DATE: 04/22/2019
 NOVUS JOB NUMBER
2001.1013.39
 SHEET NUMBER
C2.0

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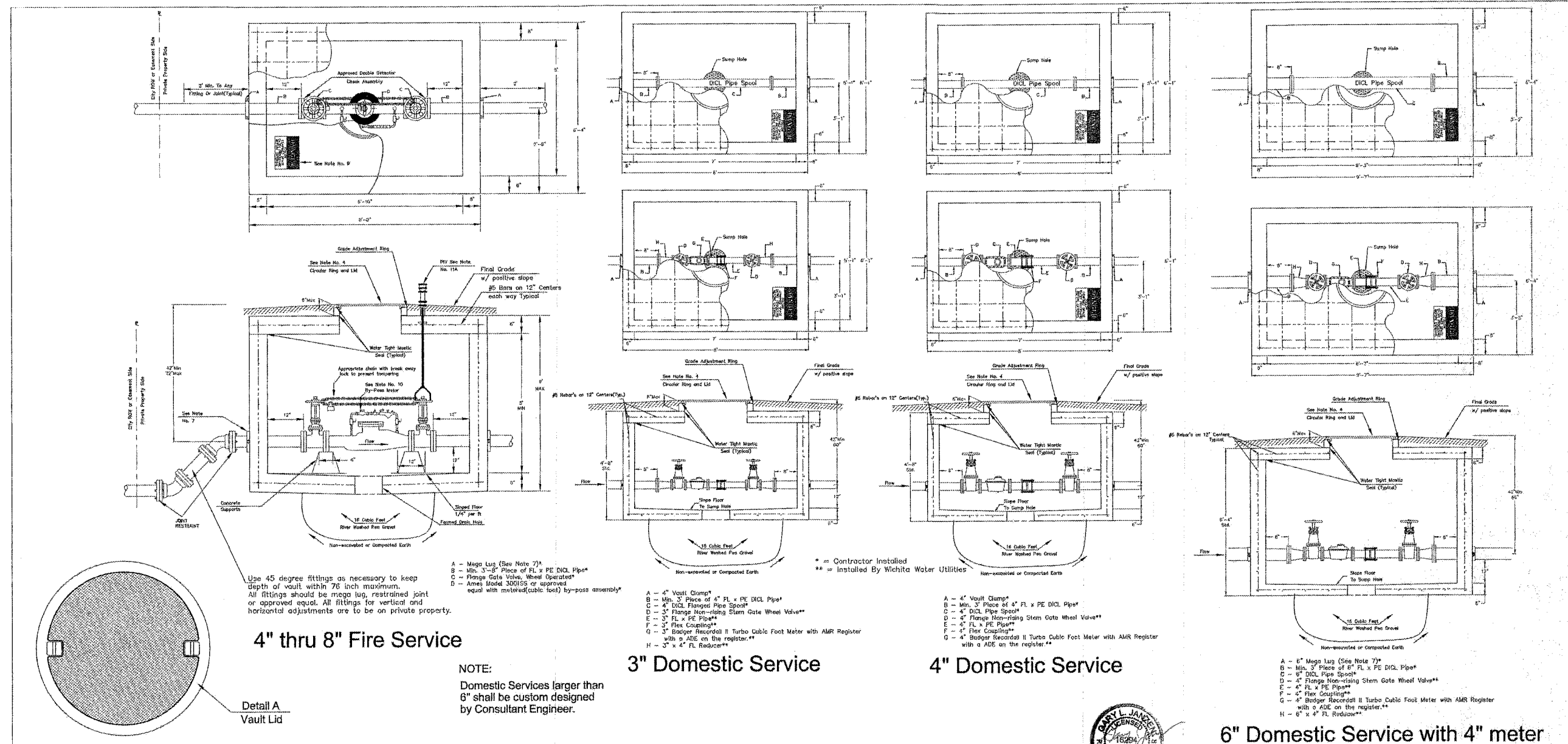
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4830 S. BROADWAY AVE.
WICHITA, KS 67216
STANDARD VAULT DETAILS AND METER ASSEMBLIES



4" thru 8" Fire Service

NOTE:
Domestic Services larger than 3" shall be custom designed by Consultant Engineer.

3" Domestic Service

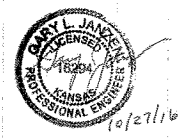
4" Domestic Service

6" Domestic Service with 4" meter

- Notes For All Services - 3" thru 12":
- When the standard vault dimensions are not applicable, such as when additional space is required for special pipe, fittings, additional meters, etc. the consultant design engineering shall design a vault with the required dimensions for Public Works and Utilities approval.
 - The vault shall be poured concrete, cement blocks (voids to be completely filled with 2500 P.S.I. concrete), or approved precast structure. The intent of these details shall not be limited by drawings or standards of precast structures.
 - Any vault located in pavement must be traffic rated unless it is protected. Traffic rated vaults must be design and approved by Public Works and Utilities.
 - The manhole ring and lid shall be Heenah R-8034 Frame with Type "C" Solid Lid and Drop Down Handle or US Foundry APS-30x30 (Aluminum) or Deeter 1261 or EJ 1936z1(with pick hole(s) as shown in Detail A). Where applicable the standard 10" Public Works and Utilities pattern meter reading lid and ring shall be located directly above water meter register. All joints of concrete to concrete or metal to concrete in the construction of the vault shall have an approved water tight mastic joint seal.

- Any fittings or appurtenances required to achieve proper elevation of pipe through the vault shall be provided by the contractor and appropriately noted on the as-builts submitted by the inspecting engineer. Such fittings shall be a minimum of 2" from the exterior wall of vault.
- For all domestic services larger than 3" the contractor shall provide an outlet flange connection as shown 6" from the inside wall. Inlet and outlet wall sleeves shall be provided and installed by the contractor and shall be in alignment with one another. The inlet and outlet pipe shall be ductile iron pipe, cement lined, Class 150 per Standard Specifications and shall be continuous through vault and joint no less than 2" from the exterior wall of vault. Flanges of inlet and outlet pipe shall be in proper alignment and bolt patterns shall be rotated in such a way that valves and other fittings shall be in their proper vertical alignment when installed.
- For all services 4" and larger the contractor shall install a mega lug, restrained joint, or approved equal on the exterior walls of the vault, which shall be manufactured of ductile iron conforming ASTM A 536-80, heat treated to a minimum hardness of 370 BHN and have a working pressure of at least 250 P.S.I. For a services smaller than 4" the contractor shall install an approved vault clamp on the exterior walls of the vault.
- All valves, meters, assemblies and fitting shall be provided with sufficient concrete or other approved supports to the vault floor.
- The "Confined Space Warning" sign shall be fastened to the top of all vaults. If necessary for landscaping or site consideration, the sign may be fastened to the vault lid if it does not impede access to the handle. Acceptable materials: Aluminum 7341SHH, Plastic 73439HH or S.A. Vinyl 73463HH.

- All meters shall have an electronic read register compatible with the current City of Wichita meter reading system. All detector meters shall be on 5/8 cubic foot Bodger meter with AMR register with a ADE on the register and 25' long iron cord and plug or approved equal. Galton meters shall not be accepted.
- Additional Notes For Fire Services
 - A post indicator valve (PIV) is an option for the outlet valve. It is not required by the City of Wichita ordinance, it can be requested by the owner and will be allowed at the discretion of the City Engineer.
 - When Slamese connections are required by the Wichita Fire Department, refer to the current City Code Section 15.
 - If due to any reason the completed vault retains ground or drainage water in excess of 4" in depth from the floor of the vault, the property owner shall be responsible for providing and installing an appropriate automatic sump pump or approved equal, as well as any other appurtenances required to make such system function as intended.



STANDARD VAULT DETAILS AND METER ASSEMBLIES
CITY ENGINEER
GARY JANZEN, P.E.
PROJECT NUMBER: _____ DATE: _____
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

REVISIONS: Δ

No.	Description	Date
1	Addendum #2	03/16/19
2	Addendum #3	06/10/19
3	CR #1	06/19/19

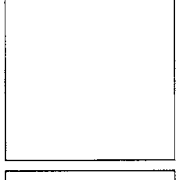
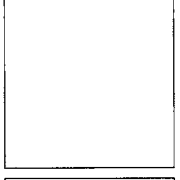
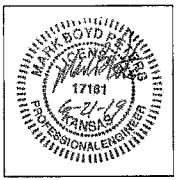
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SHEET NUMBER
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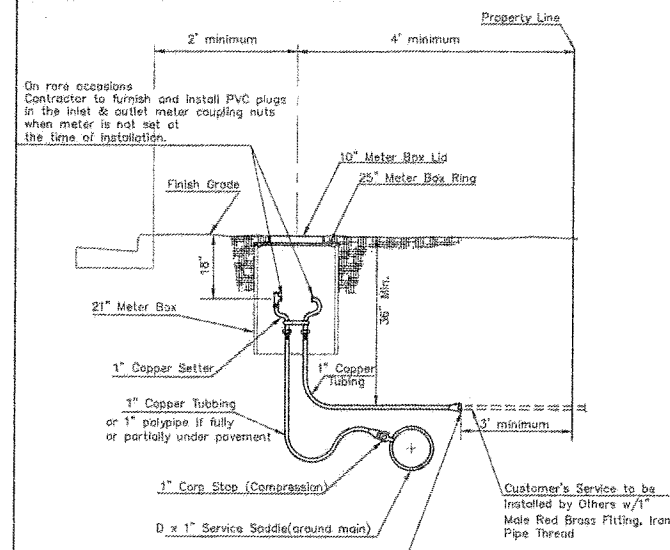
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STANDARD WATER SERVICE DETAIL

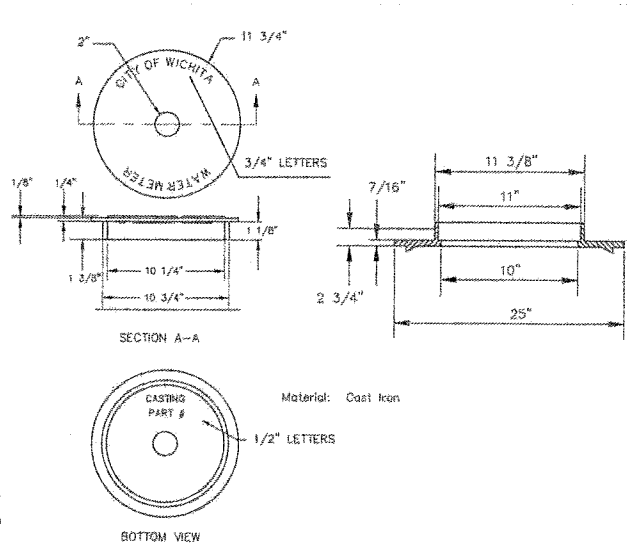
No.	Description	Date
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2	Addendum #3	06/18/19
3	CR #1	06/19/19

DRAWN BY: TAH
CHECKED BY: JAC
DATE: 04/22/2019
NOVUS JOB NUMBER: 2001.1013.39
SHEET NUMBER: C2.3

CONSTRUCTION DOCUMENTS



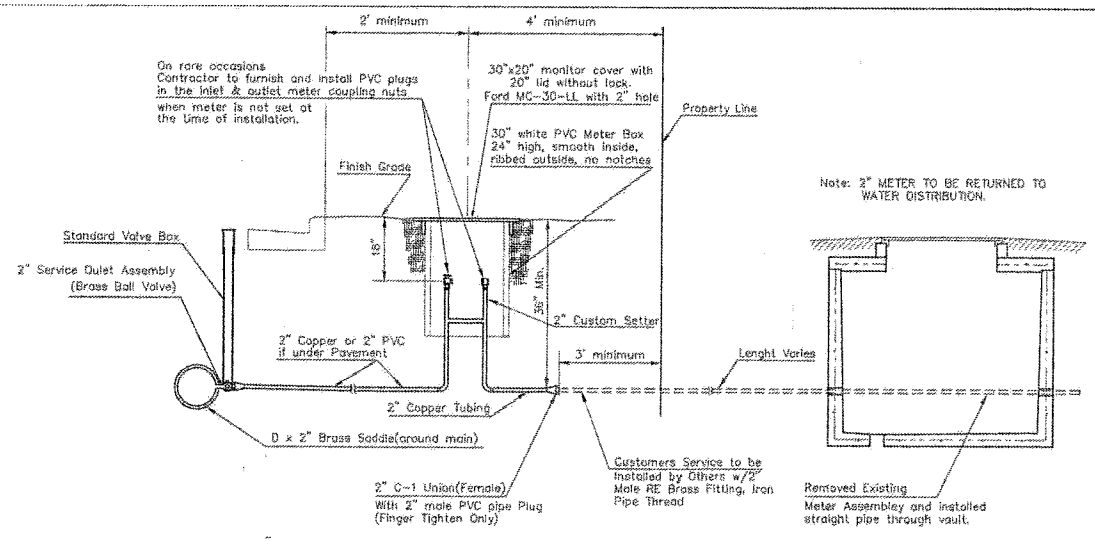
TYPICAL 1" METER SETTING



NOT TRAFFIC RATED RING & LID FOR 1" METER BOX

- NOTE:
- 1 - 1/2" Mueller Thread Corporation Stop
 - 1 - 1/2" Type "K" Copper Tubing
 - 1 - 1/2" Copper to Iron Union (Male)
 - 1 - 1/2" Brass Curb Stop (Iron to Iron)
 - 2 - 1/2" Brass Nipple
 - 1 - Air Release
 - 2 - 1/2" Brass Elbows (90°)
 - 1 - 1" x 1/2" Brass Nipple
 - 1 - 30" Monitor Cover
 - 1 - 20" Meter Lid

THE 1 1/2" AIR RELEASE ASSEMBLY WILL TYPICALLY BE USED ON WATER MAINS 24" AND SMALLER, AS SPECIFICALLY DESIGNATED IN THE PLANS. COMBINATION AIR RELEASE ASSEMBLIES WILL BE SPECIFICALLY DESIGNED FOR PROJECTS WITH LARGER MAINS, AND WILL BE INCLUDED IN THE PLANS.

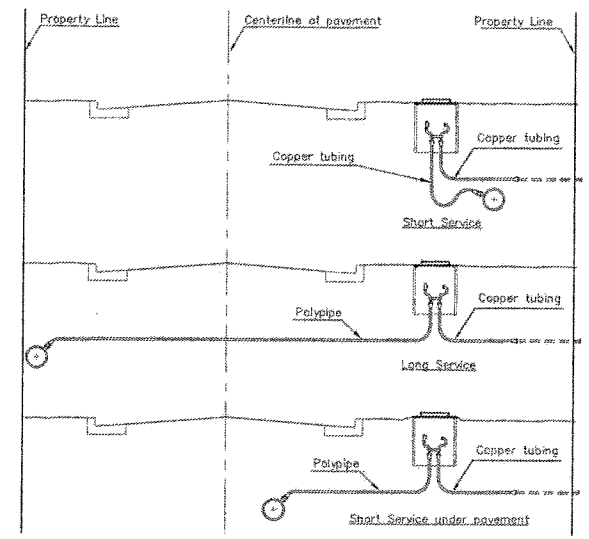


TYPICAL 2" METER SETTING

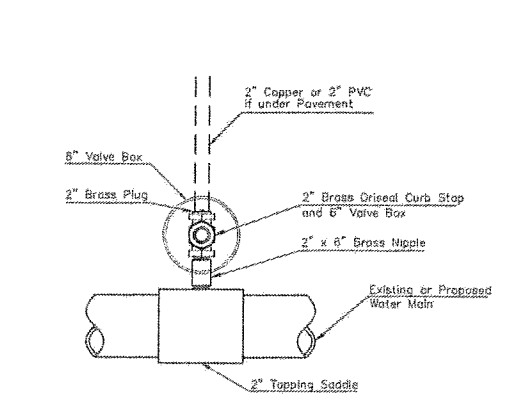
TYPICAL 2" METER SETTING INVOLVING EXISTING 2" METER VAULT

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

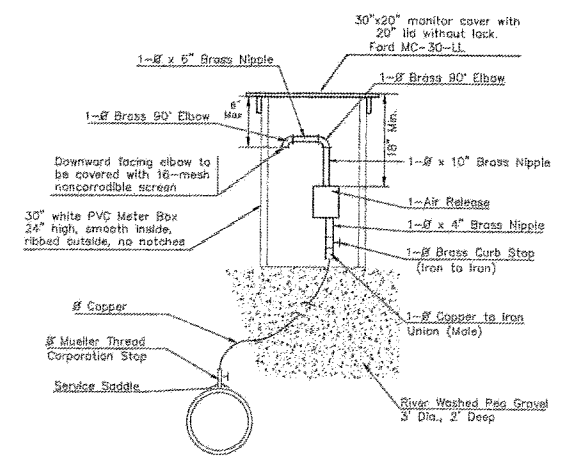
NOTE: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.



SERVICE TYPES



2" SERVICE OUTLET ASSEMBLY TOP VIEW



MATERIALS FOR 1" or 2" AIR RELEASE ASSEMBLY Ø = 1" or 2"

REVISED: DECEMBER 2018 | TM

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STANDARD WATER SERVICE DETAIL
CITY ENGINEER
GARY JANZEN, P.E.

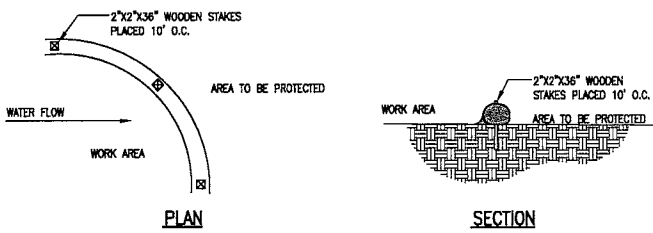
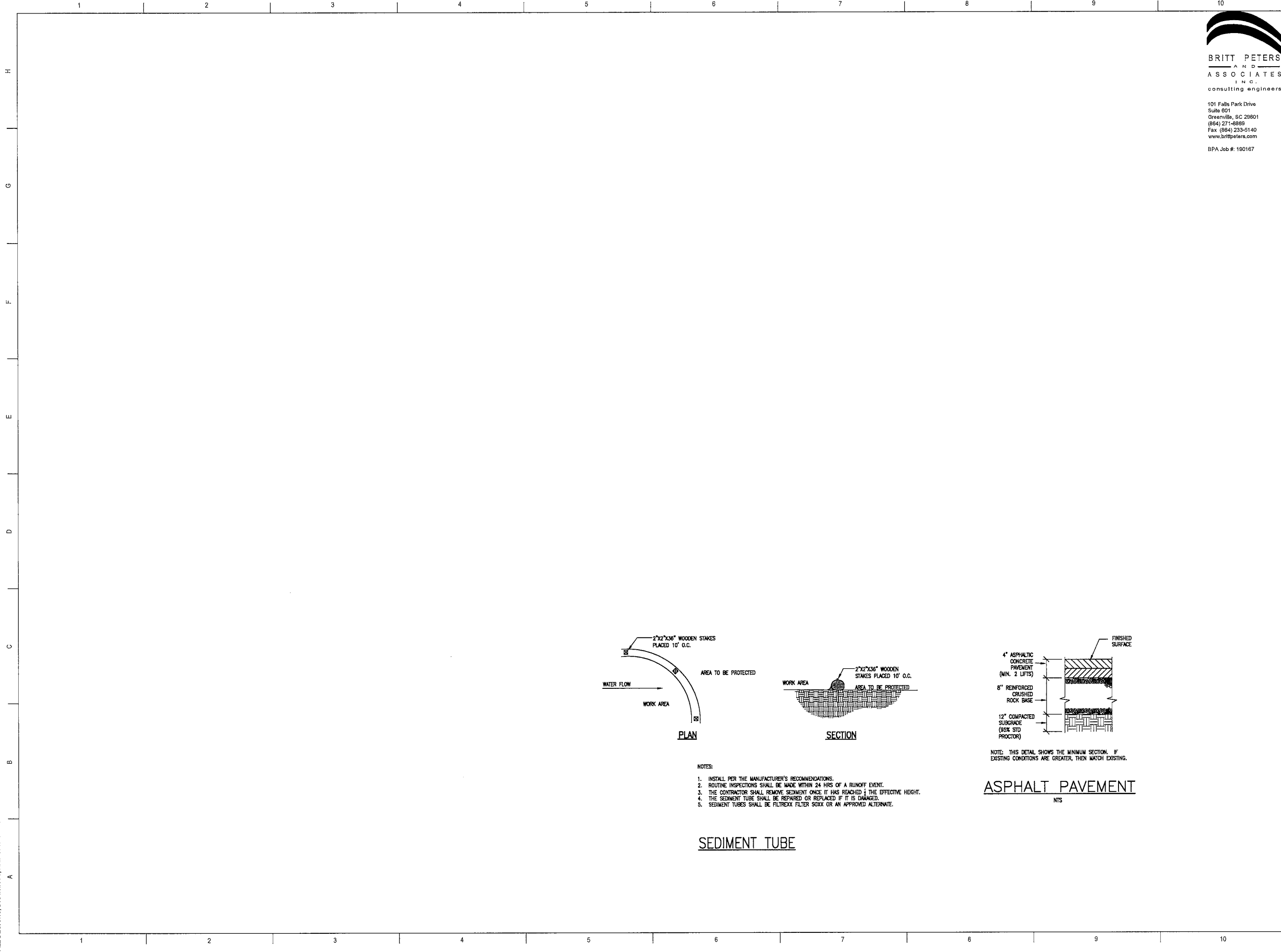
PROJECT NUMBER: [] DCA NUMBER: [] DATE: []

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
355 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET: [] of []

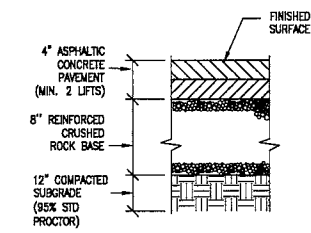


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- NOTES:
1. INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS.
 2. ROUTINE INSPECTIONS SHALL BE MADE WITHIN 24 HRS OF A RUNOFF EVENT.
 3. THE CONTRACTOR SHALL REMOVE SEDIMENT ONCE IT HAS REACHED 1/2 THE EFFECTIVE HEIGHT.
 4. THE SEDIMENT TUBE SHALL BE REPAIRED OR REPLACED IF IT IS DAMAGED.
 5. SEDIMENT TUBES SHALL BE FILTREXX FILTER SOXX OR AN APPROVED ALTERNATE.

SEDIMENT TUBE

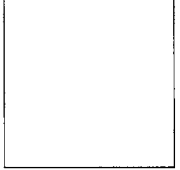
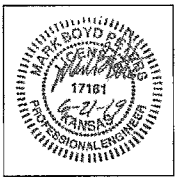


NOTE: THIS DETAIL SHOWS THE MINIMUM SECTION. IF EXISTING CONDITIONS ARE GREATER, THEN MATCH EXISTING.

ASPHALT PAVEMENT
NTS

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DETAILS

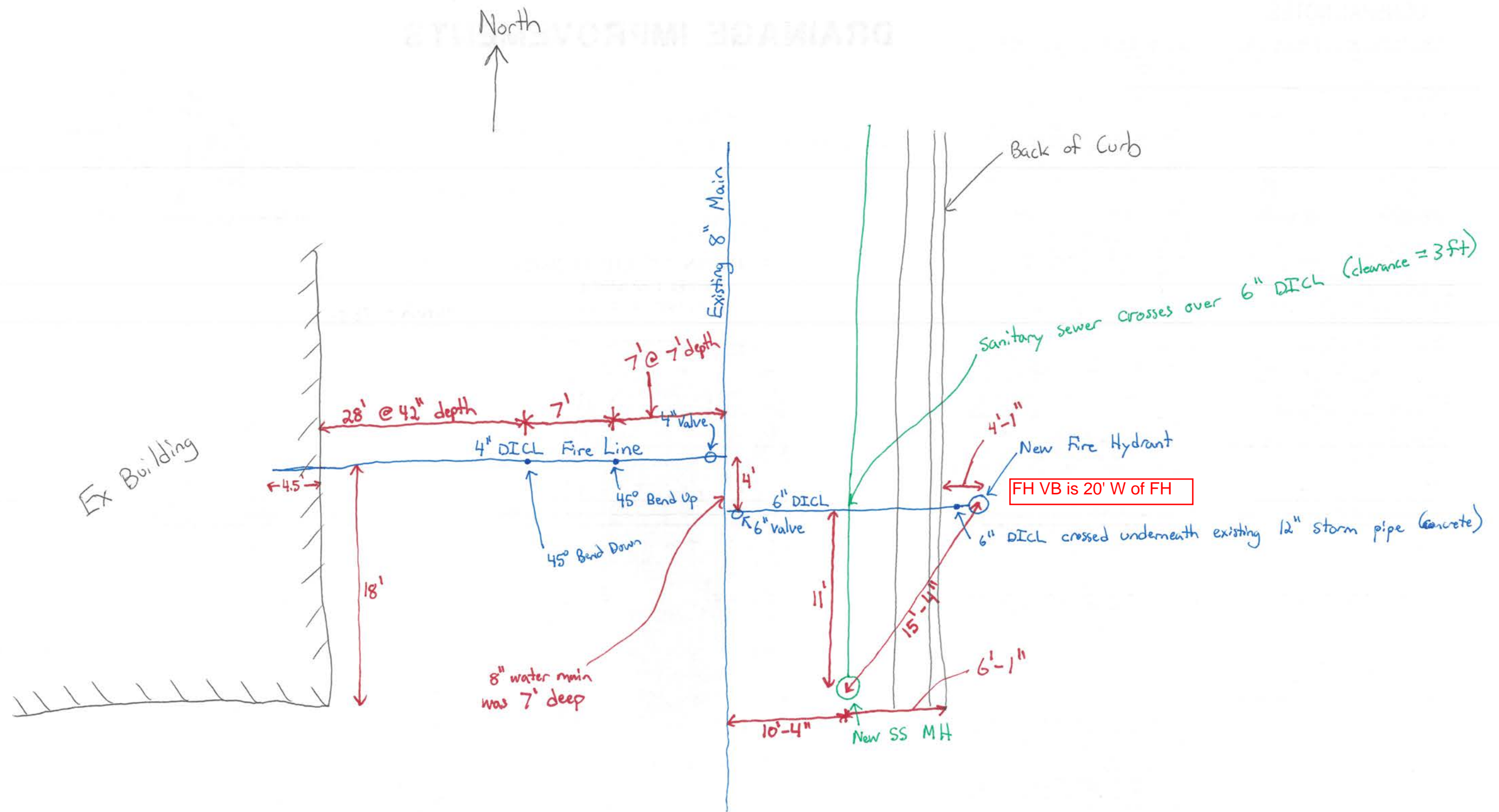
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CONSTRUCTION DOCUMENTS



No tracer wire or test stations were installed.
 Brand Names:
 Fire Hydrant Manufacturer: AFC American Darling (Model #MK73)
 Valve Manufacturer: Supplied by City
 Cast Iron Fittings: - SIP