

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
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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	1-316-268-4090
City of Wichita Traffic	1-316-268-4034
Cox Communications	1-888-249-3530
Kansas Gas Service	1-888-482-4950
Westar 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 abutting 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 at 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 Contractors 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, 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 316-268-4555.
- City maintenance of storm sewer ends at the last structure in the easement or right-of-way.
- 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.
- Request 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 manufactures 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 contractors expense.
- Contractor shall limit the extent of trench open overnight and weekends to less than 50 feet.
- Wichita Fire Department inspections may be scheduled by calling 316-268-4441.

Benchmarks

BENCHMARK 1, CHISELED SQUARE CUT AT THE SOUTHEAST CORNER CONCRETE BASE OF AT&T JUNCTION BOX, 167.2' NORTHWEST OF THE NORTHWEST CORNER OF SUBJECT TRACT.
 ELEVATION = 1304.72, NAVD 88 DATUM

BENCHMARK 2, CHISELED SQUARE CUT ON TOP CENTER OF CURB INLET ALONG THE BACK OF CURB LINE, 96.1' SOUTH SOUTHEAST OF THE SOUTHEAST CORNER OF THE SUBJECT TRACT.
 ELEVATION = 1303.96, NAVD 88 DATUM.

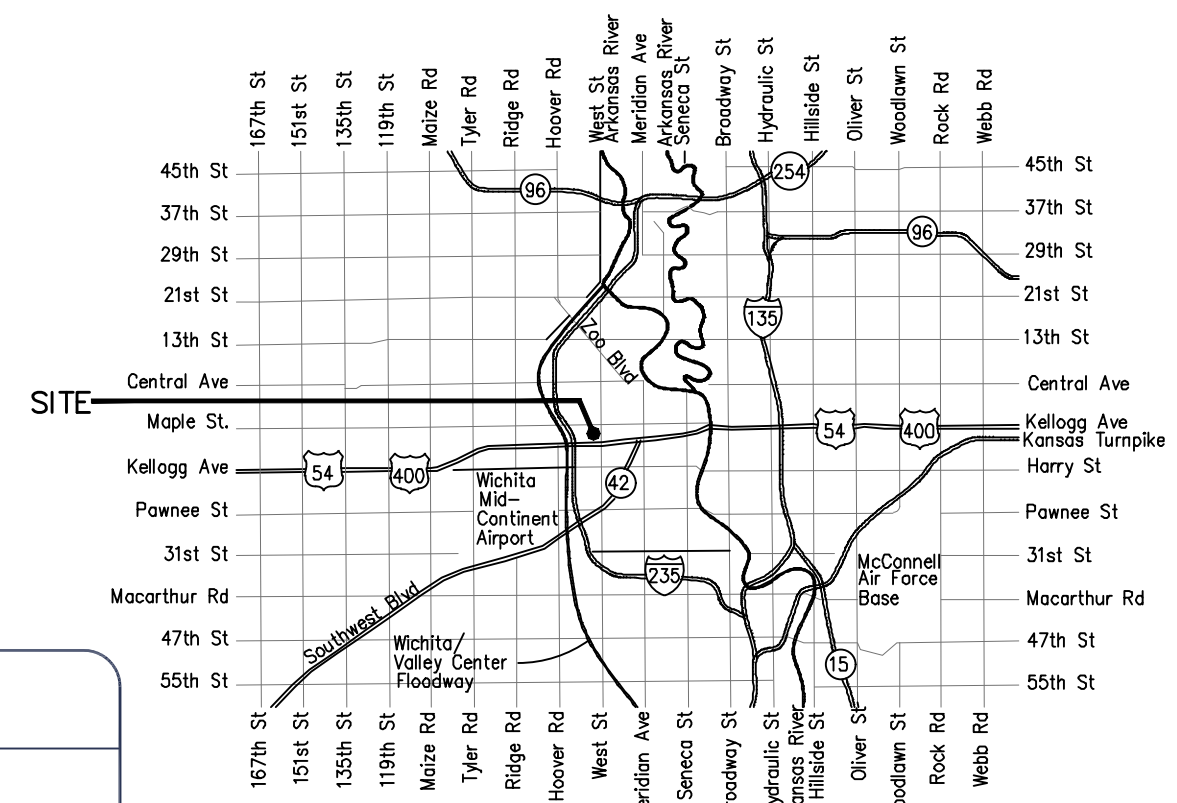
WATER DISTRIBUTION SYSTEM to serve **CASEY'S GENERAL STORE** 511 S WEST STREET CITY OF WICHITA, KANSAS 67213

Gary Janzen, P.E. City Engineer
 Project Number
 PPW-2020-001912 (183021)

MUELLER
 (STORZ)
 NO TRACER
 WIRE ON MAIN
 OR HYDRANT
 18" OF DI CL PIPE

195' WEST OF
 PROPERTY LINE WEST
 STREET 9' BACK OF
 CURB IS MAIN
 121/2' BACK OF CURB
 IS 51/2' MUELLER FIRE
 HYDRANT

AS BUILTS	
Contractor: Ewertz Excavation 1/28/2021	Project Inspector: Larry Gann KEMILLER ENGINEERING PA 117 E. Lewis, Wichita, KS 67202 (316)264-0242

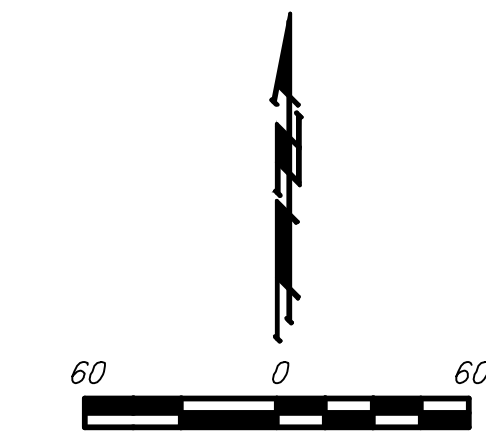
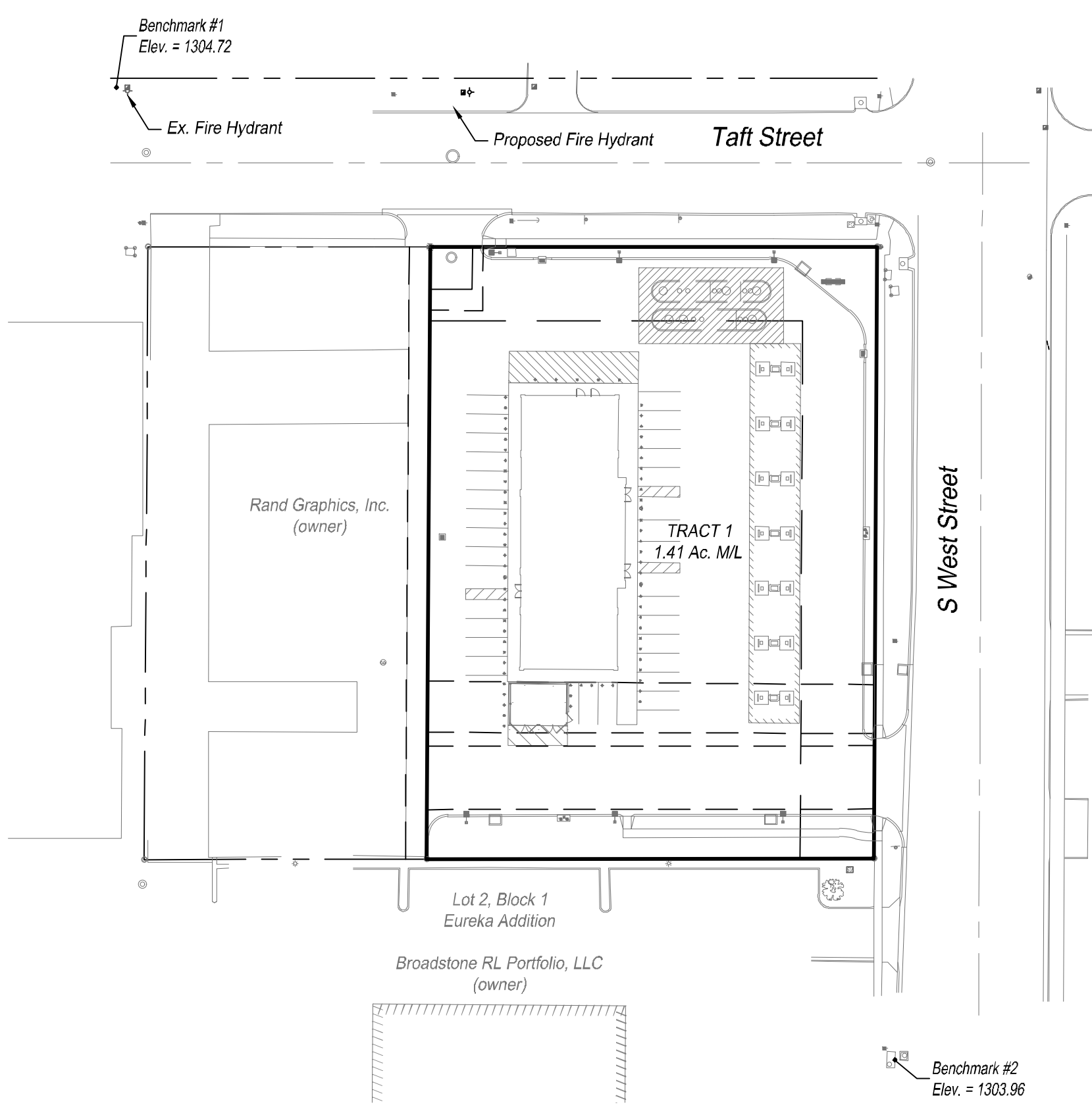


Vicinity Map

BECAUSE MAIN WAS 9'
 BACK OF CURB AND
 STORM LINE WAS IN THE
 WAY THE FIRE HYDRANT
 IS 121/2' NORTH OF CURB

SEE NEXT
 SHEET

CHANGE ON
 PLANS



Sheet Index

- Title Sheet
- Site Plan/Location Map
- Erosion Control Plan
- 7 Erosion Control/Waterline Details
- Plat

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

Engineering *Nith Gotschey 1-24-2020*
 Utilities *Debra J. 1-24-20*
 Fire Dept. *J. 1/27/2020*

NOTE TO CONTRACTORS

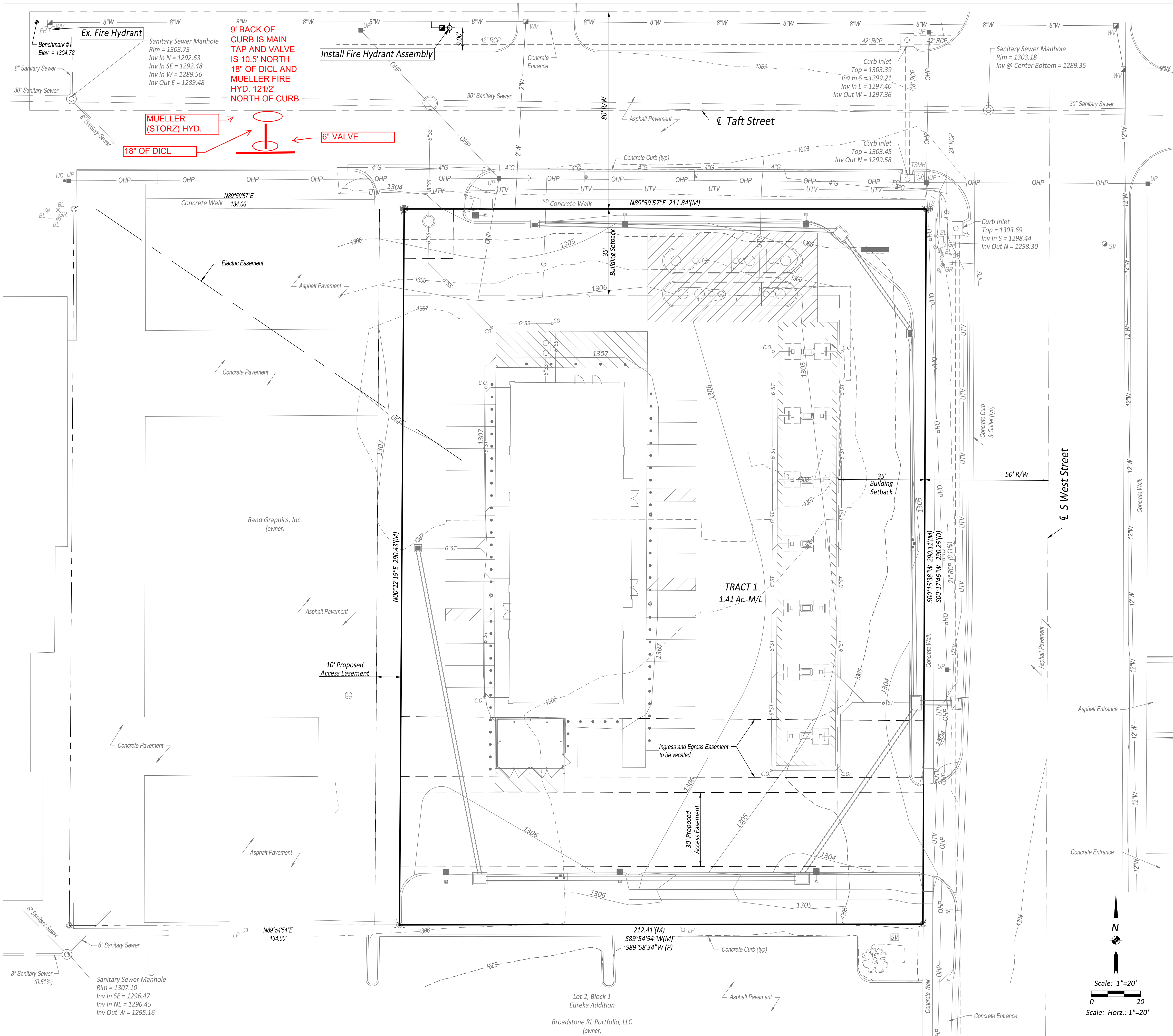
Public Property:
 Inspection and testing for the waterline is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said Inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Professional Engineer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

Public 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.

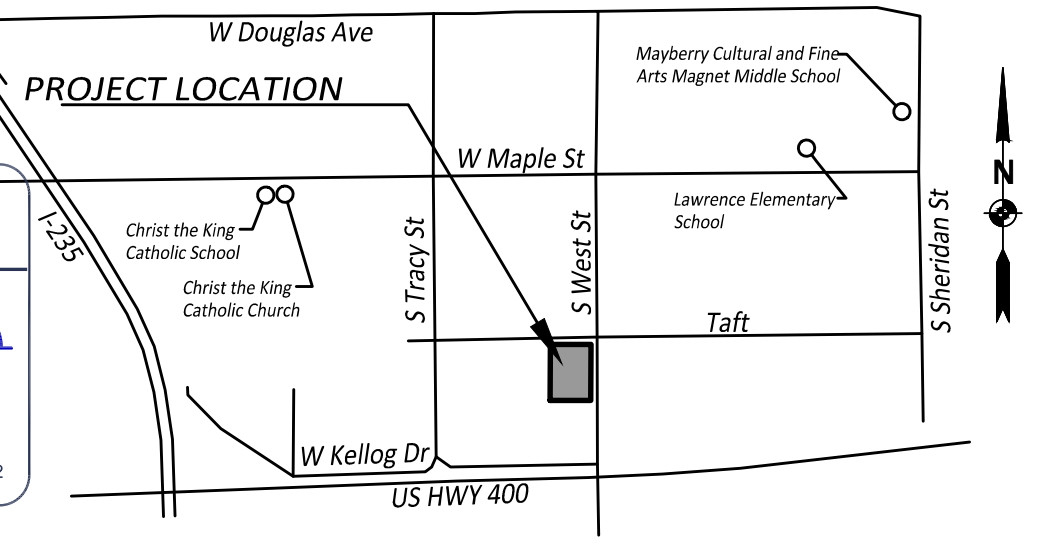
An approved copy of these plans signed by City staff are required on-site.



January, 2020
SBB ENGINEERING, LLC
 101 S. KANSAS AVENUE
 TOPEKA, KS 66603



AS BUILTS
 1/28/2021
KEMILLER
 ENGINEERING PA
 117 E. Lewis,
 Wichita, KS 67202 (316)264-0242

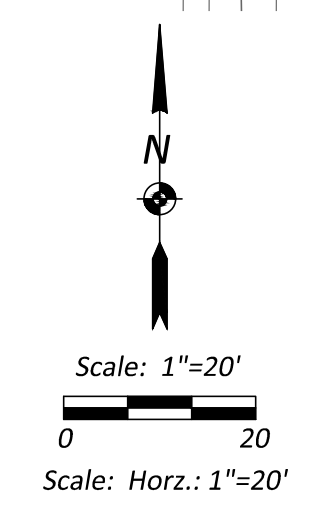


- LEGEND:**
- 15" CSP --- EXISTING STORM SEWER
 - 8" Sanitary Sewer --- EXISTING SANITARY SEWER
 - 4"W --- EXISTING WATERLINE
 - 6"W --- EXISTING WATERLINE
 - OHP --- EXISTING OVERHEAD POWER
 - UGP --- EXISTING UNDERGROUND POWER
 - UTV --- EXISTING UNDERGROUND TELEVISION
 - G --- EXISTING GASLINE
 - [Symbol] --- PROPOSED FIRE HYDRANT ASSEMBLY

BENCHMARKS:
 THE BASIS OF THE BEARING SYSTEM FOR THIS SURVEY IS BASED ON THE SUBDIVISION PLAT FOR EUREKA ADDITION.
 VERTICAL CONTROL DATUM:
 BENCHMARK 1, CHISELED SQUARE CUT AT THE SOUTHEAST CORNER CONCRETE BASE OF AT&T JUNCTION BOX, 167.2' NORTHWEST OF THE NORTHWEST CORNER OF SUBJECT TRACT. ELEVATION = 1304.72, NAVD 88 DATUM
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SUMMARY OF QUANTITIES:

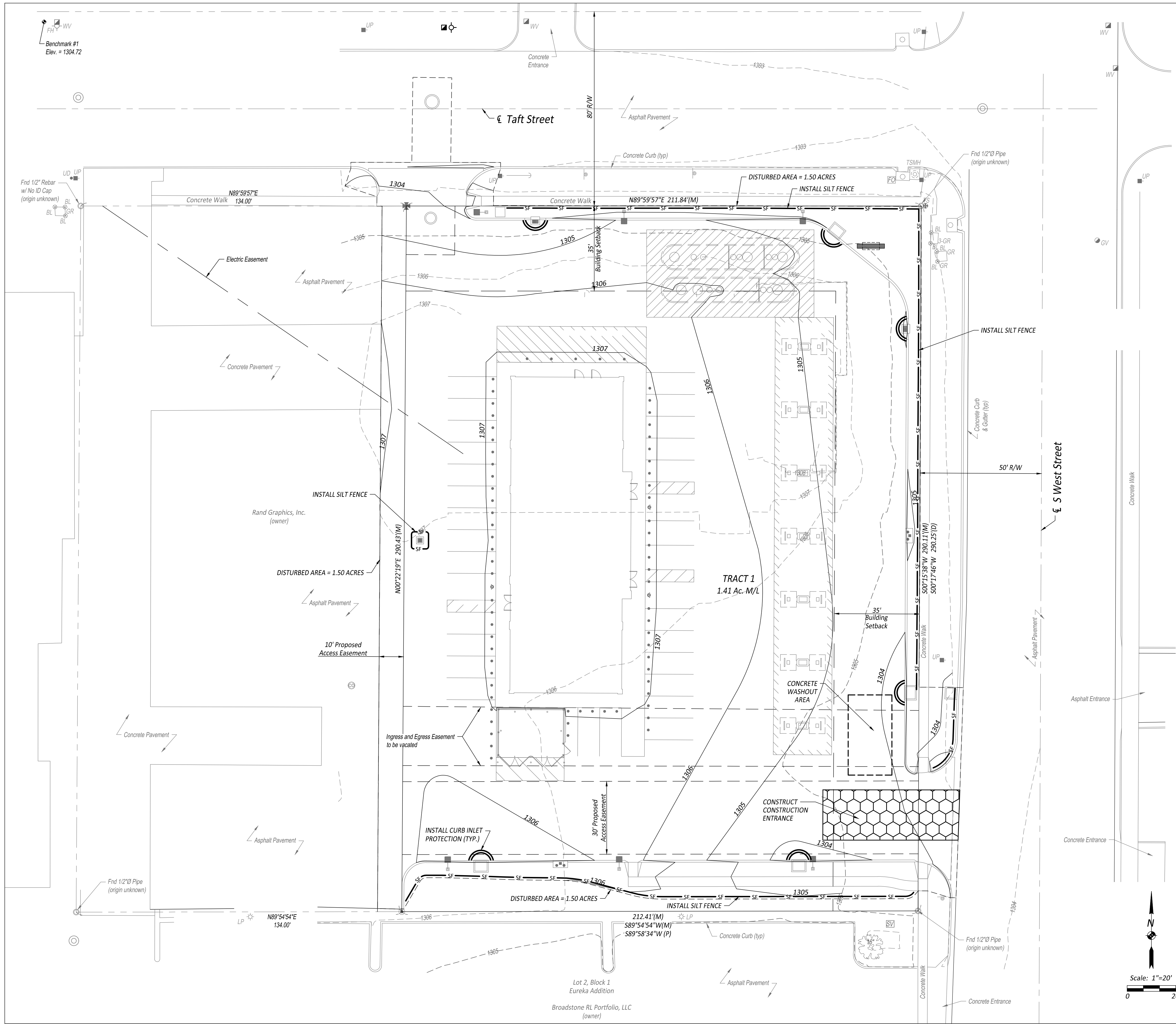
ITEM NO.	DESCRIPTION	UNIT AMT.	UNIT DESC.
1	FIRE HYDRANT ASSEMBLY	1	EACH
2	CONNECT TO EXISTING	1	EACH
3	EROSION CONTROL: SILT FENCE	645	L.F.
4	EROSION CONTROL: CONSTRUCTION ENTRANCE	1	EACH
5	EROSION CONTROL: INLET PROTECTION	6	EACH



SBB
 Schmidt, Beck & Boyd
 Engineering / Surveying
 101 S. Kansas Ave.
 Topeka, KS 66603
 Ph: (785) 215-8630

SITE PLAN / LOCATION MAP

PUBLISHED: 01/14/20	DRAWING INFORMATION:
REVISION:	



GENERAL NOTES:

1. THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.
2. ALL DISTURBED AREAS THAT ARE NOT PAVED OR LANDSCAPED SHALL BE SEEDED, FERTILIZED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS.

EROSION CONTROL GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MONITORING AND MAINTAINING BEST MANAGEMENT PRACTICES (BMP'S) AT ALL TIMES DURING THE CONSTRUCTION ON THIS PROPERTY.
2. PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS, CONTRACTOR SHALL INSTALL PERIMETER WATTLES AND CONSTRUCTION ENTRANCE AS SHOWN ON THE PLAN. THE INLET PROTECTION AND ADDITIONAL WATTLES WITHIN WORK AREA SHALL BE INSTALLED IMMEDIATELY AFTER INSTALLATION OF THE INLETS AND COMPLETION OF ROUGH GRADING.
3. EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR NOT LESS THAN WEEKLY OR WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO SEDIMENT REMOVAL AND SILT FENCE REPAIR AND/OR REPLACEMENT. FIELD ADJUSTMENTS MAY BE MADE AS NECESSARY TO ENSURE OPTIMAL PERFORMANCE.
4. CONTRACTOR SHALL CLEAR ALL SURROUNDING PARKING LOTS AND STREETS OF ANY TRACKED DEBRIS BY SWEEPING OR SCRAPING THE EXISTING PAVEMENT BY THE END OF EACH WORKDAY AND THE CONTRACTOR SHALL CLEAN UP SOIL WASHED OFF THE CONSTRUCTION SITE AFTER A STORM BY THE END OF THE NEXT WORKDAY.
5. DURING ALL SOIL DISTURBING ACTIVITIES, THE CONTRACTOR WILL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE THE TIME OF EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL.
6. CONTRACTOR SHALL KEEP A WRITTEN LOG OF WHEN CONSTRUCTION ACTIVITIES BEGIN, EROSION AND SEDIMENT CONTROLS ARE INSTALLED, INSPECTED AND REPAIRED.
7. EROSION AND SEDIMENT CONTROL MEASURES SHALL NOT BE REMOVED UNTIL GRASS COVER HAS BEEN ESTABLISHED OR AS DIRECTED BY ENGINEER.
8. ALL AREAS SHALL BE GRADED TO FINISHED GRADE PRIOR TO SEEDING AND MULCHING. ALL AREAS NOT PART OF THE HARDSCAPE OR OTHER NOTED LANDSCAPING SHALL BE PERMANENTLY SEEDED, FERTILIZED AND MULCHED.
9. ALL WATTLES SHALL BE STRAW WATTLE WS-12 AS MANUFACTURED BY NORTH AMERICAN GREEN, OR APPROVED EQUAL. THE WATTLES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR MAY USE WATTLES AND SILT FENCE INTERCHANGEABLY IN AREAS IDENTIFIED ON THE DRAWINGS.
10. THE CONTRACTOR HAS THE OPTION TO MODIFY THE LOCATION OF THE CONSTRUCTION ENTRANCE TO FIT THE PREFERRED WORK PATTERN.

WASTE DISPOSAL:

1. WASTE MATERIALS: ANY WASTE AND OTHER UNUSABLE MATERIALS WILL BE REMOVED FROM THE SITE ON A REGULAR BASIS AND PROPERLY DISPOSED OF IN AN APPROVED SITE.
2. CHEMICAL WASTE: ALL CHEMICAL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A TIGHTLY SEALED METAL OR OTHER CHEMICAL RESISTANT CONTAINER. THE CONTAINER WILL MEET ALL LOCAL AND ANY STATE SOLID WASTE MANAGEMENT REGULATIONS. THE WASTE MATERIALS AND ALL DISPOSABLE MATERIALS WILL BE TRANSPORTED TO A COMMERCIAL CHEMICAL DISPOSAL FACILITY CAPABLE OF EITHER RECYCLING OR PROPERLY DISPOSING OF THE POLLUTANTS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. THE STATE WASTE MANAGEMENT SECTION CONTACT NUMBER IS (785) 296-1600.
3. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS, SUCH AS OIL FILTERS, PETROLEUM PRODUCTS, EQUIPMENT MAINTENANCE FLUIDS AND PAINTS, SHALL NOT BE STORED ON SITE AND WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS. IF THERE ARE QUESTIONS REGARDING THE PROPER HANDLING OF HAZARDOUS WASTES THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT HAZARDOUS WASTE SECTION AT (785) 296-1600.
4. SANITARY WASTE: PORTABLE TOILET FACILITIES WILL BE PROVIDED ON THE PROJECT SITE AND SERVICED BY THE PROVIDER ON A REGULAR BASIS.

MATERIAL MANAGEMENT PRACTICES:

GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON-SITE DURING CONSTRUCTION.

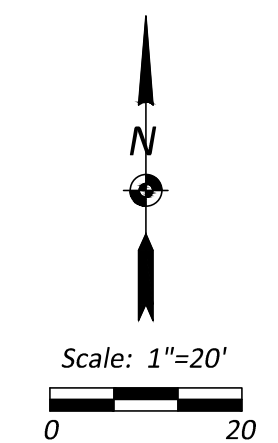
1. ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN ORIGINAL CONTAINERS IF APPROPRIATE.
2. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABELS.
3. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

SPILL PREVENTION:

1. PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.
2. FERTILIZERS: FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. FERTILIZER SHALL NOT BE STORED ON-SITE.
3. CONCRETE TRUCKS: CONCRETE TRUCKS ARE LIMITED TO A DESIGNATED AREA TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE. PROPER SIGNAGE SHALL BE INSTALLED AND MAINTAINED ON SITE DEFINING DIRECTIONS TO AND LOCATIONS OF THE SPECIFIED WASH OUT AREA. IF A WASH OUT AREA CANNOT BE DESIGNATED OR MAINTAINED ON SITE, CONCRETE WASH OUT AND DISPOSAL MAY BE PROHIBITED AT THE OWNERS DISCRETION.

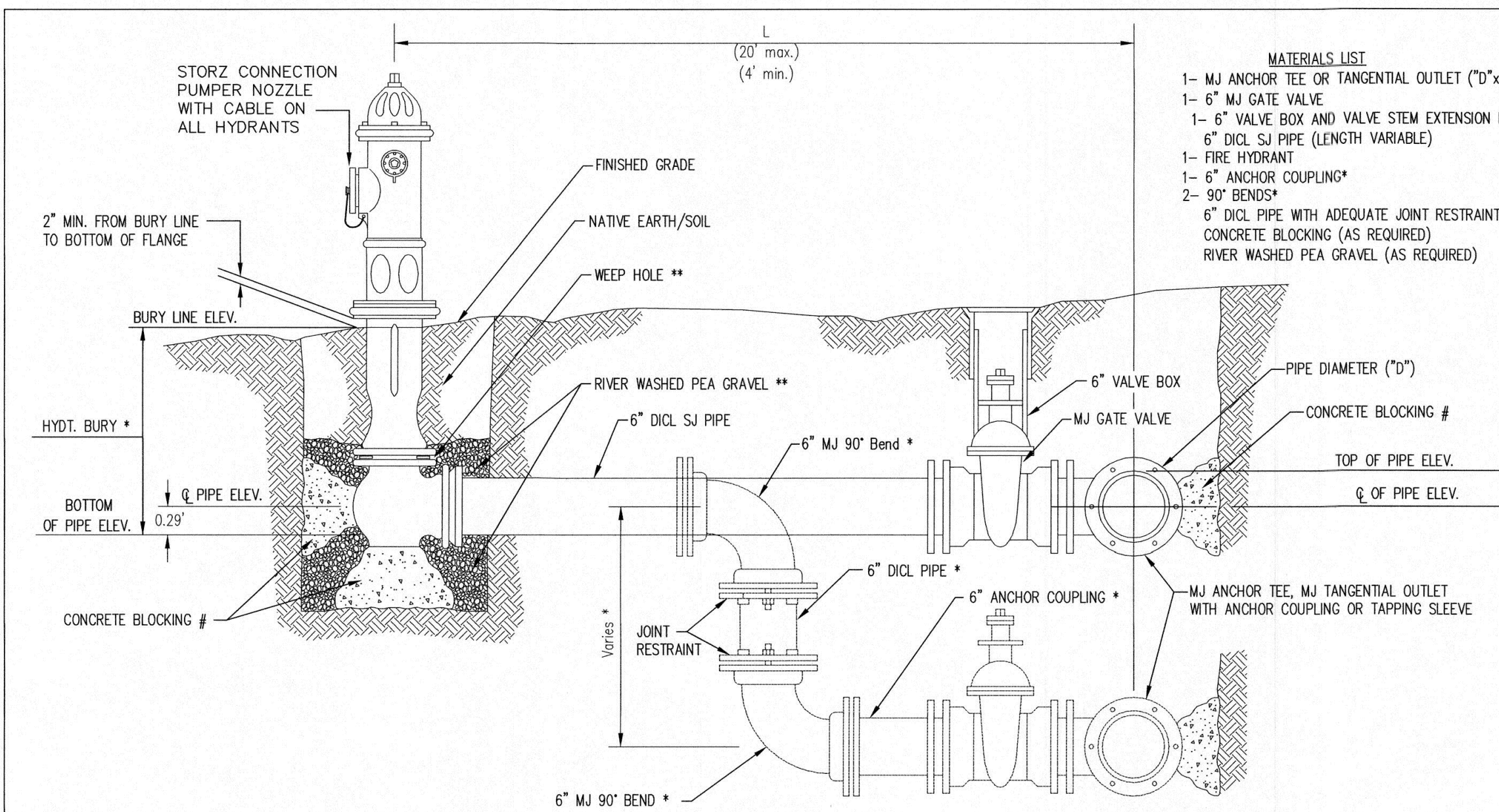
LEGEND:

- 1305— PROPOSED CONTOURS
- - -1305- - - EXISTING CONTOURS
- - -1304- - - EXISTING CONTOURS
- SF- SILT FENCE
- ()— CURB INLET PROTECTION
- - - - - DISTURBED AREA = 1.50 ACRES
- ()— CONSTRUCTION ENTRANCE



PUBLISHED: 01/14/20	DRAWING INFORMATION: EROSION CONTROL PLAN
REVISED ON:	

X:\11 SBB Drawings\Casey\119-122 Casey - Wichita, KS\Drawings\Site Construction Plans\Public Water Self-Erosion.dwg



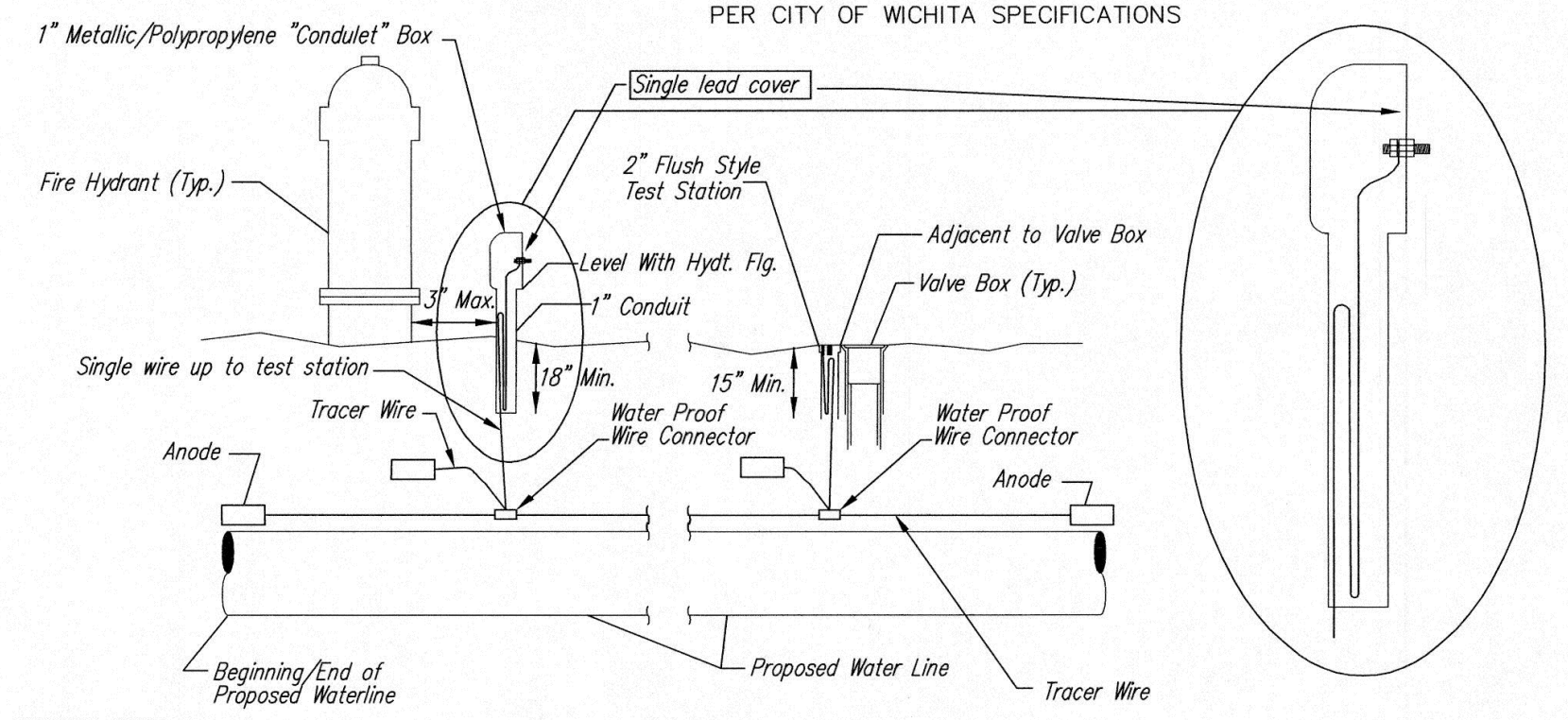
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET ("D" x 6")
 - 1- 6" MJ GATE VALVE
 - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
 - 6" DI CL SJ PIPE (LENGTH VARIABLE)
 - 1- FIRE HYDRANT
 - 1- 6" ANCHOR COUPLING*
 - 2- 90° BENDS*
 - 6" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT *
 - 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 MEGALUGS, 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 installed 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.

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.

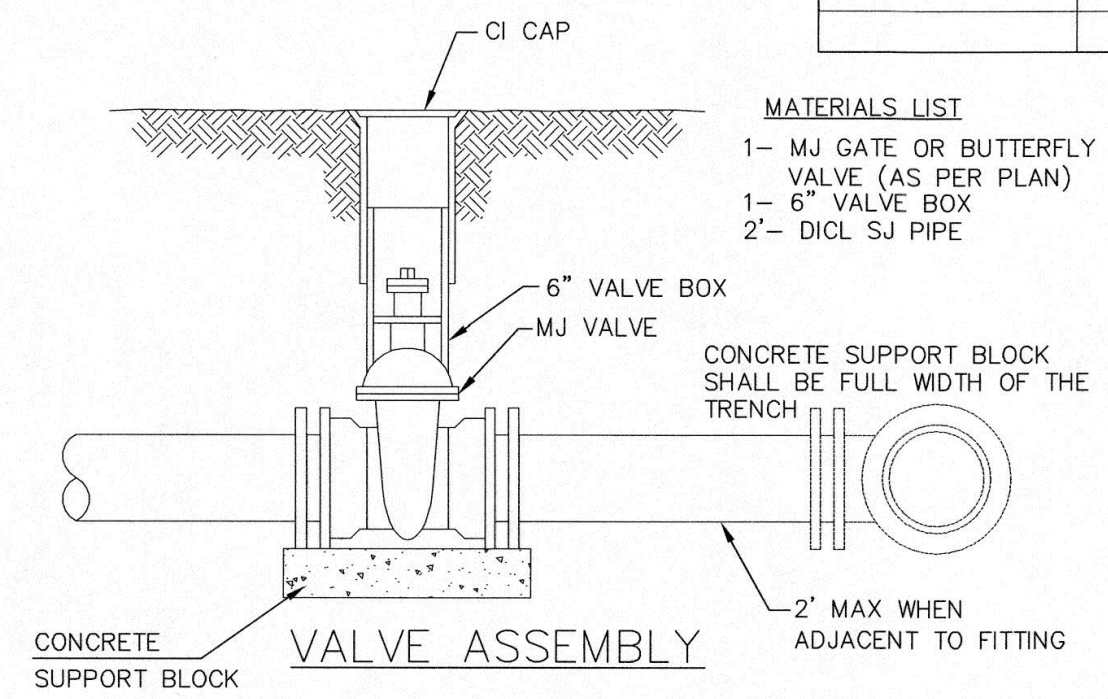
TEST STATIONS
The test station for fire hydrant application shall be a 1" "conduit" style station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized 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 installed 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.

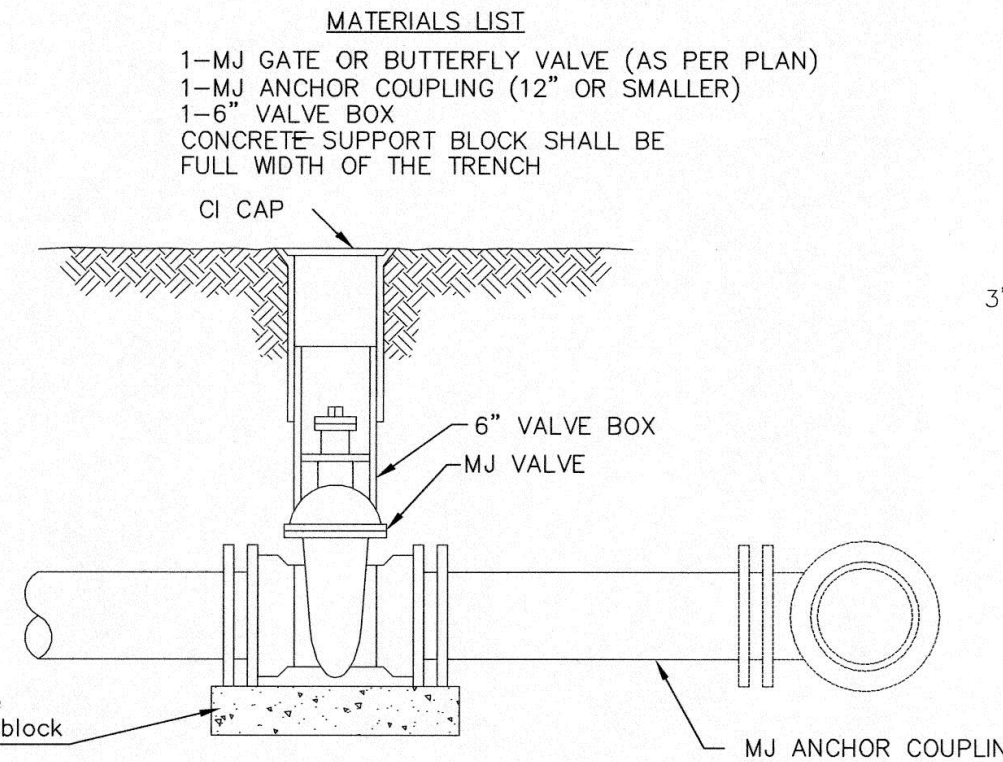
TRACER WIRE DETAIL
COST IS SUBSIDIARY TO PIPE INSTALLATION

FIRE HYDRANTS REQUIRED

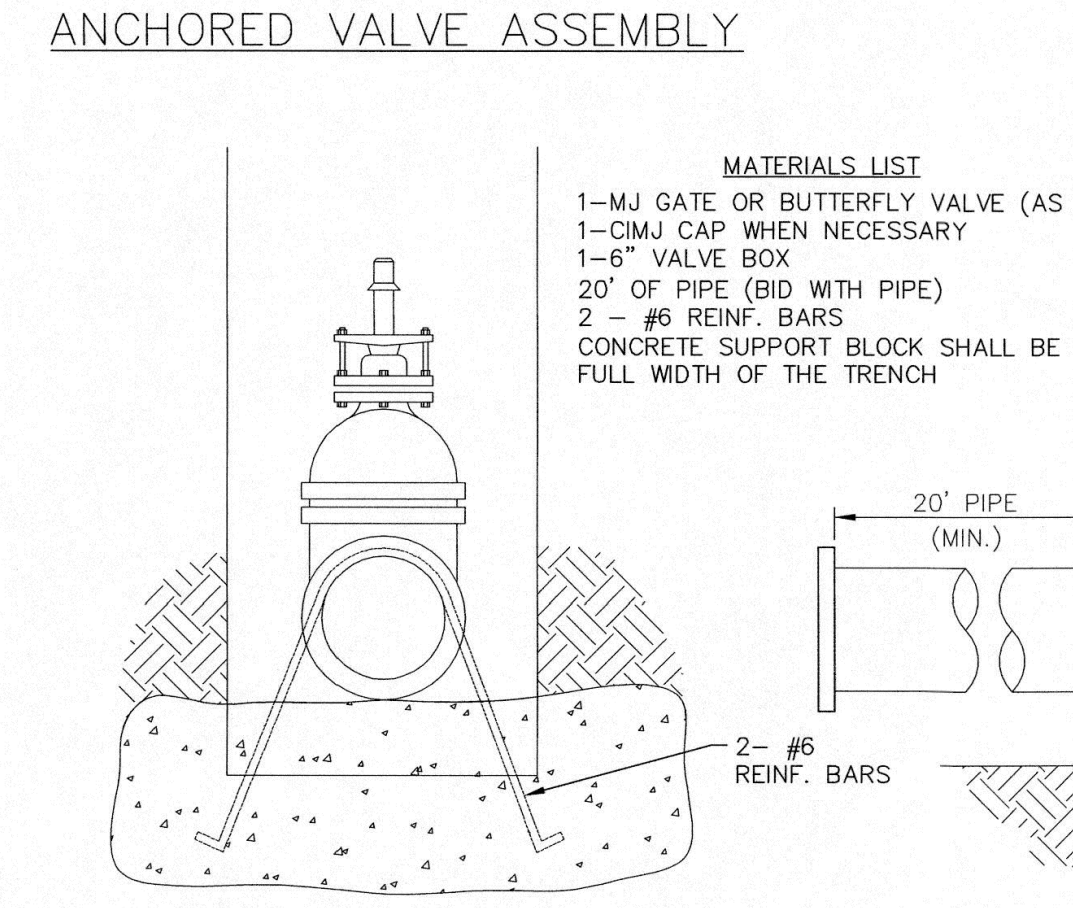
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
Sta. 0+00			(Assume Depth of Existing Main is 4'+/-, Contractor to Verify Depth)	



- 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
- 2" MAX WHEN ADJACENT TO FITTING



- 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



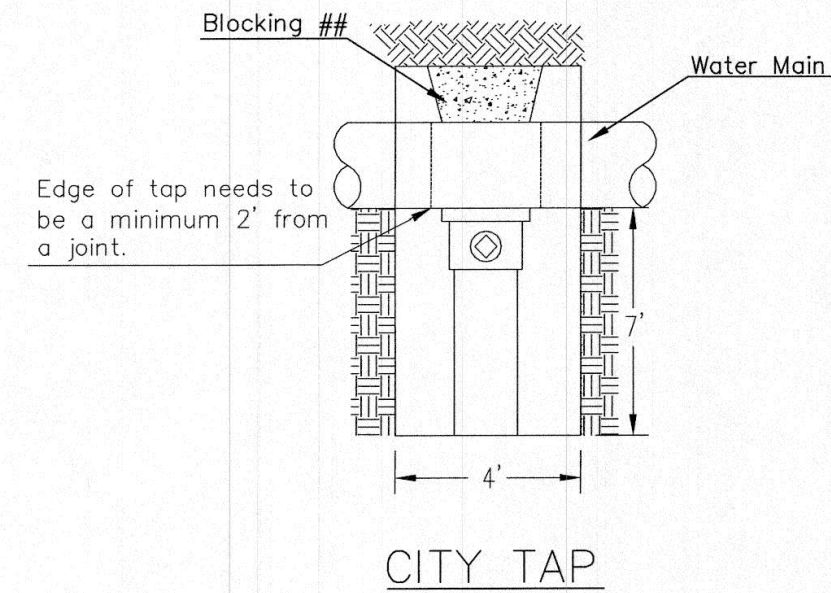
- MATERIALS LIST**
- 1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1-CIMJ CAP WHEN NECESSARY
 - 1-6" VALVE BOX
 - 20" OF PIPE (BID WITH PIPE)
 - 2- #6 REINF. BARS
 - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

Notes:
1. 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.
2. The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
3. All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

THRUST AT VALVES

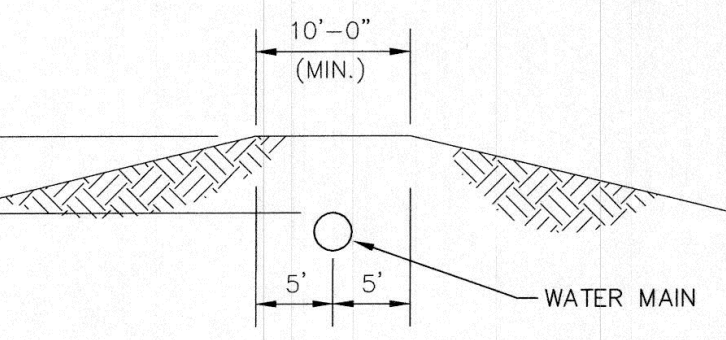
VALVE	THRUST AT 150 #/sq. ft.
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

ANCHORED VALVE ASSEMBLY, SPECIAL

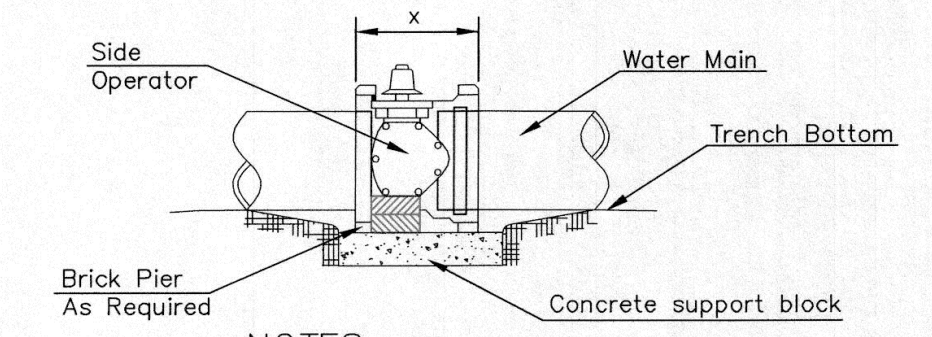


Edge of tap needs to be a minimum 2" from a joint.

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



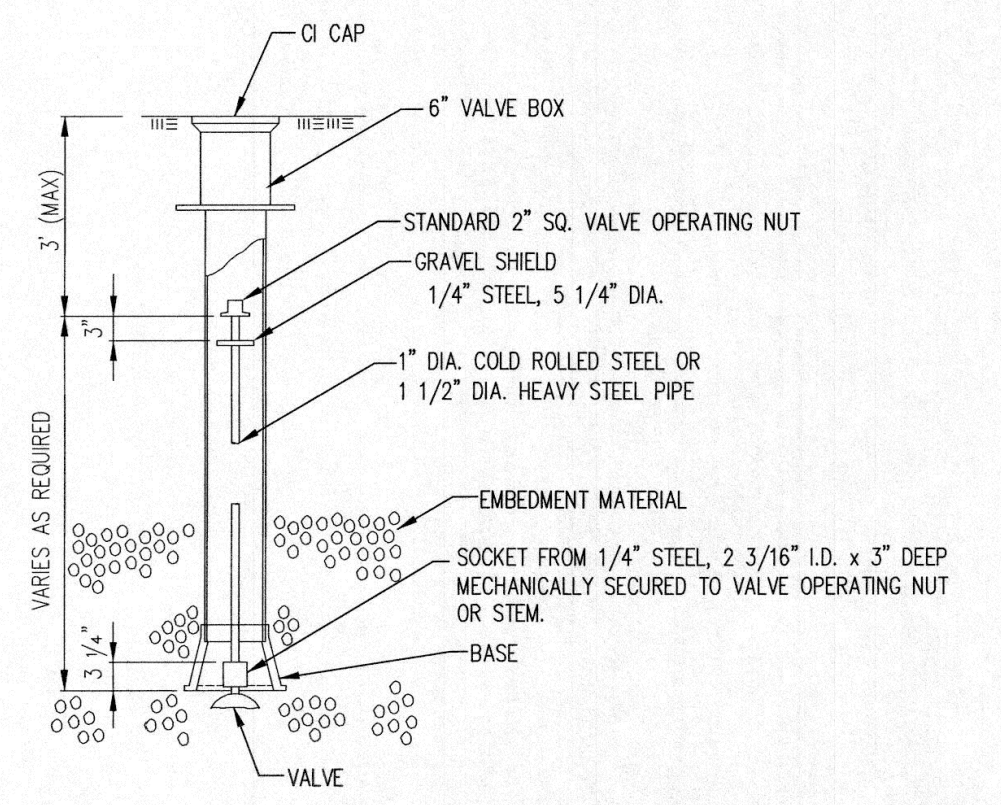
PROTECTIVE FILL DETAIL
MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3". (COST SUBSIDIARY TO PIPE INSTALLATION)



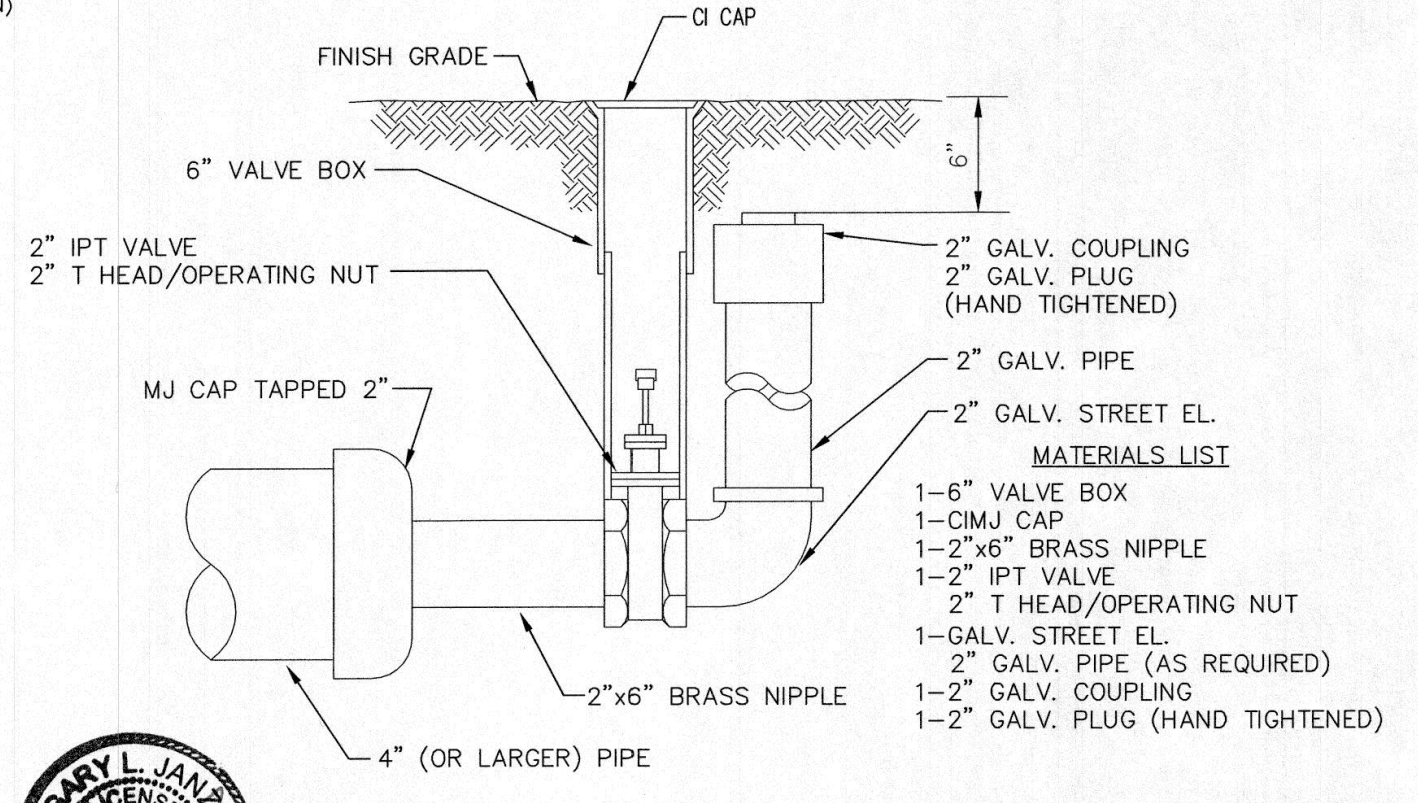
NOTES

- 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



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



- MATERIALS LIST**
- 1-6" VALVE BOX
 - 1-CIMJ CAP
 - 1-2"x6" BRASS NIPPLE
 - 1-2" IPT VALVE
 - 2" T HEAD/OPERATING NUT
 - 1-GALV. STREET EL.
 - 2" GALV. PIPE (AS REQUIRED)
 - 1-2" GALV. COUPLING
 - 1-2" GALV. PLUG (HAND TIGHTENED)

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

REVISED: OCTOBER 2016

WL-101

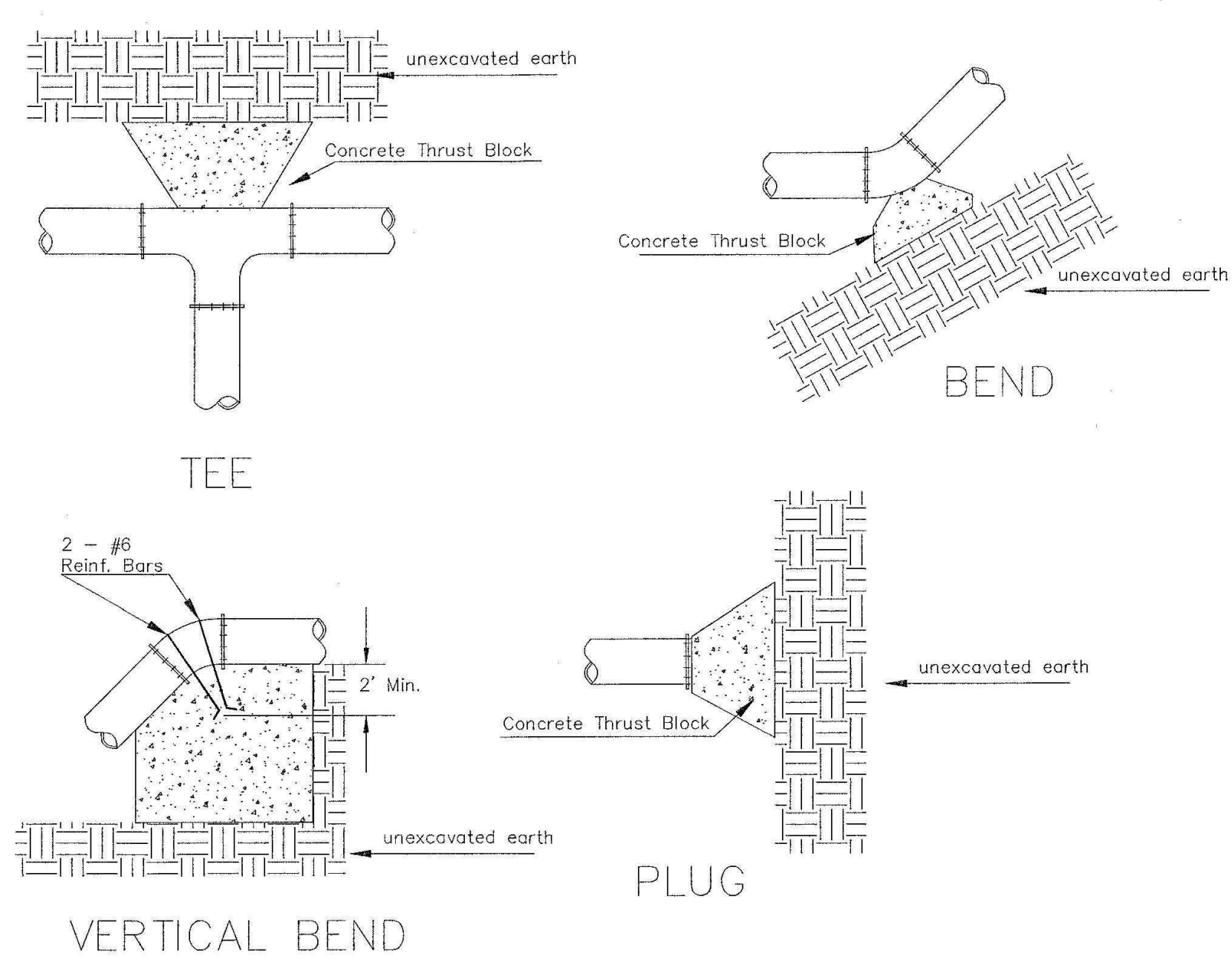
SBB
Schmidt, Beck & Boyd
Engineering / Surveying
101 S. Kansas Ave.
Topeka, KS 66603
Ph: (785) 215-8630

PUBLISHED: 01/14/20
REVISIONS:

NO.	DESCRIPTION

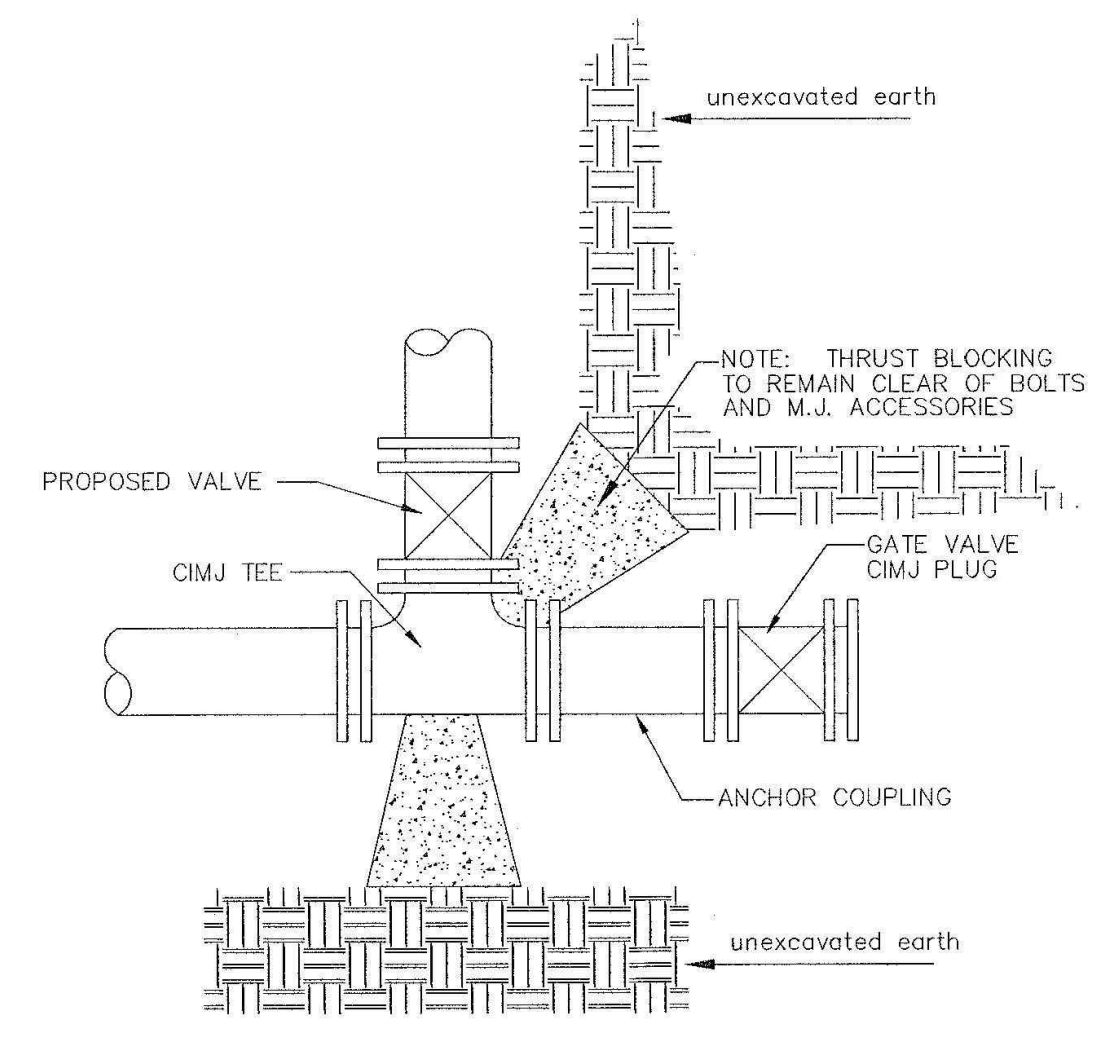
WATERLINE DETAILS

6



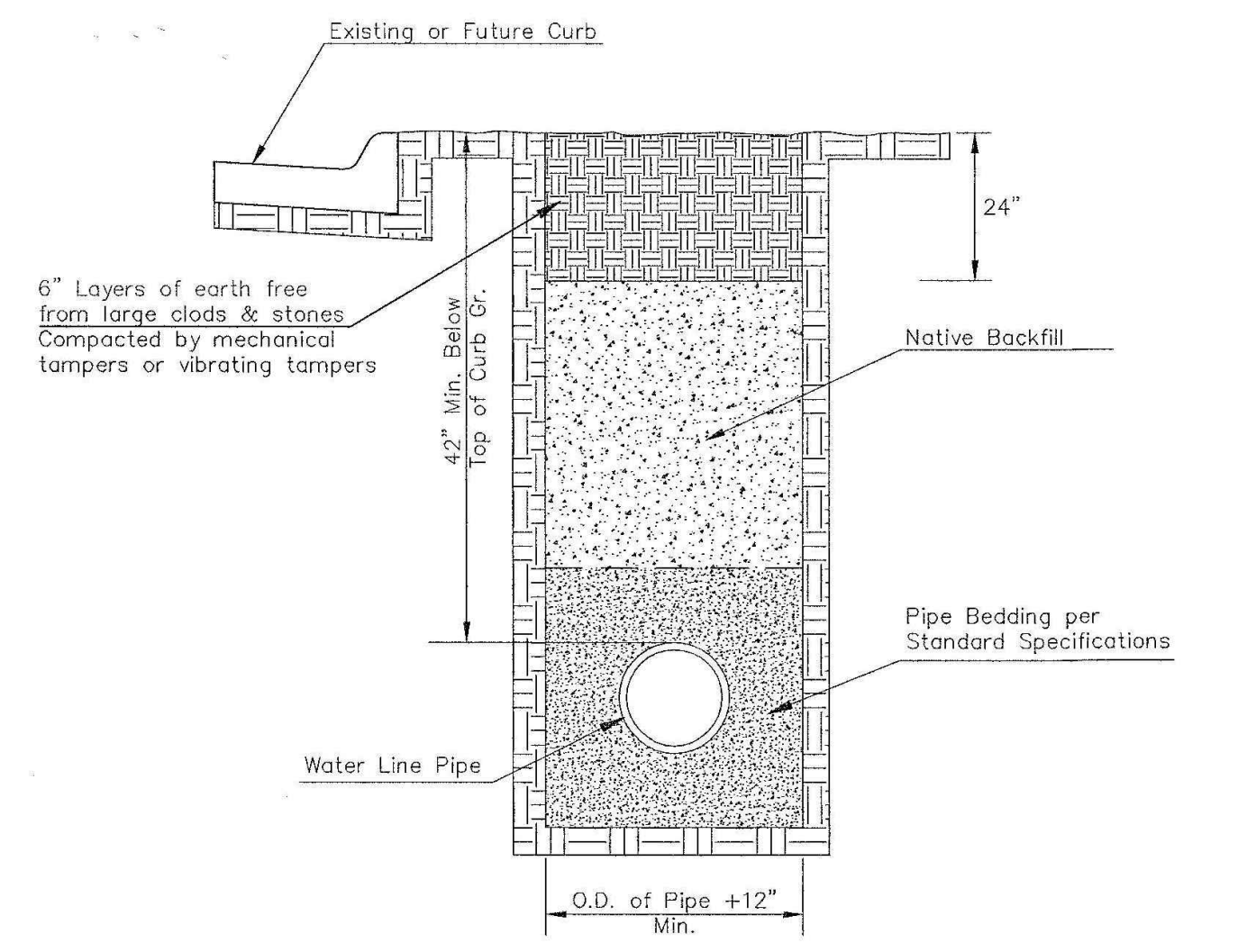
PIPE SIZE	THRUST AT FITTINGS IN TONS-AT 150#/IN ² P						
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE	
6"	2.8	3.95	2.15	1.09	.55	2.8	
8"	4.9	6.95	3.75	1.90	.96	4.9	
12"	11.4	16.1	8.75	4.45	2.25	11.4	
16"	20.15	28.5	15.4	7.85	3.95	20.15	
20"	31.15	44.0	23.85	12.15	6.10	31.15	
24"	44.55	63.0	34.1	17.4	8.75	44.55	

TYPICAL THRUST BLOCKS

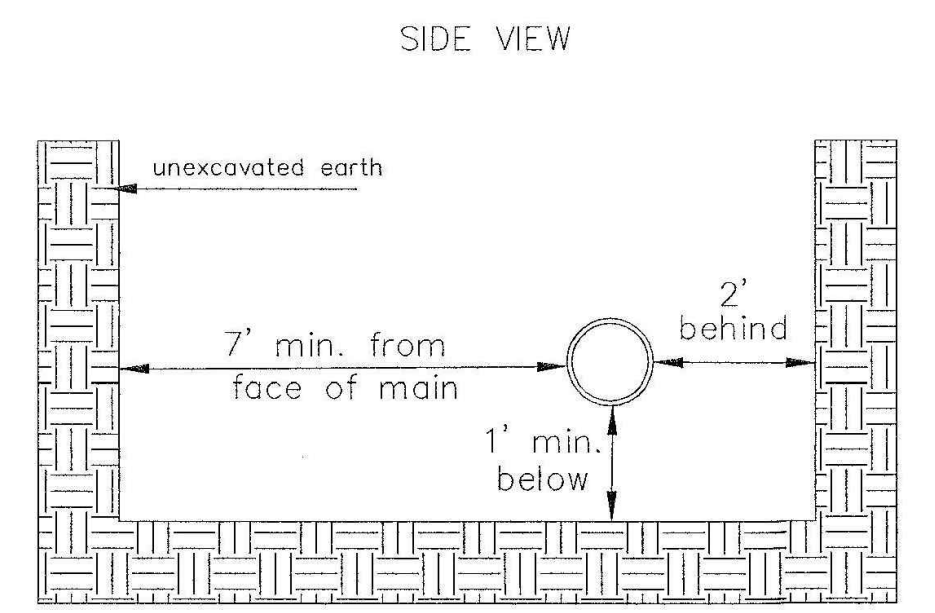


KEY BLOCK DETAIL

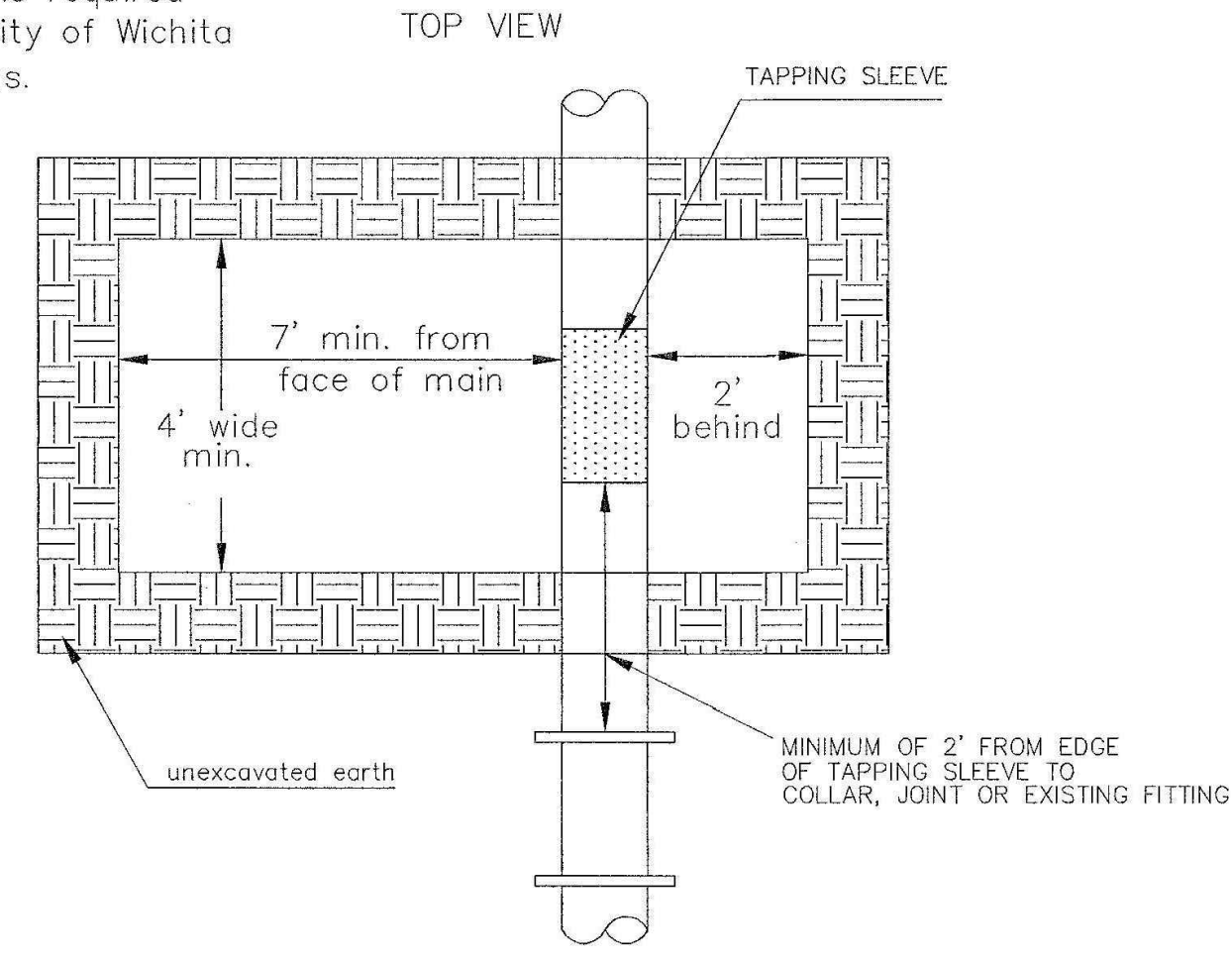
* PLANS GOVERN
UNLESS OTHERWISE NOTED ON PLANS



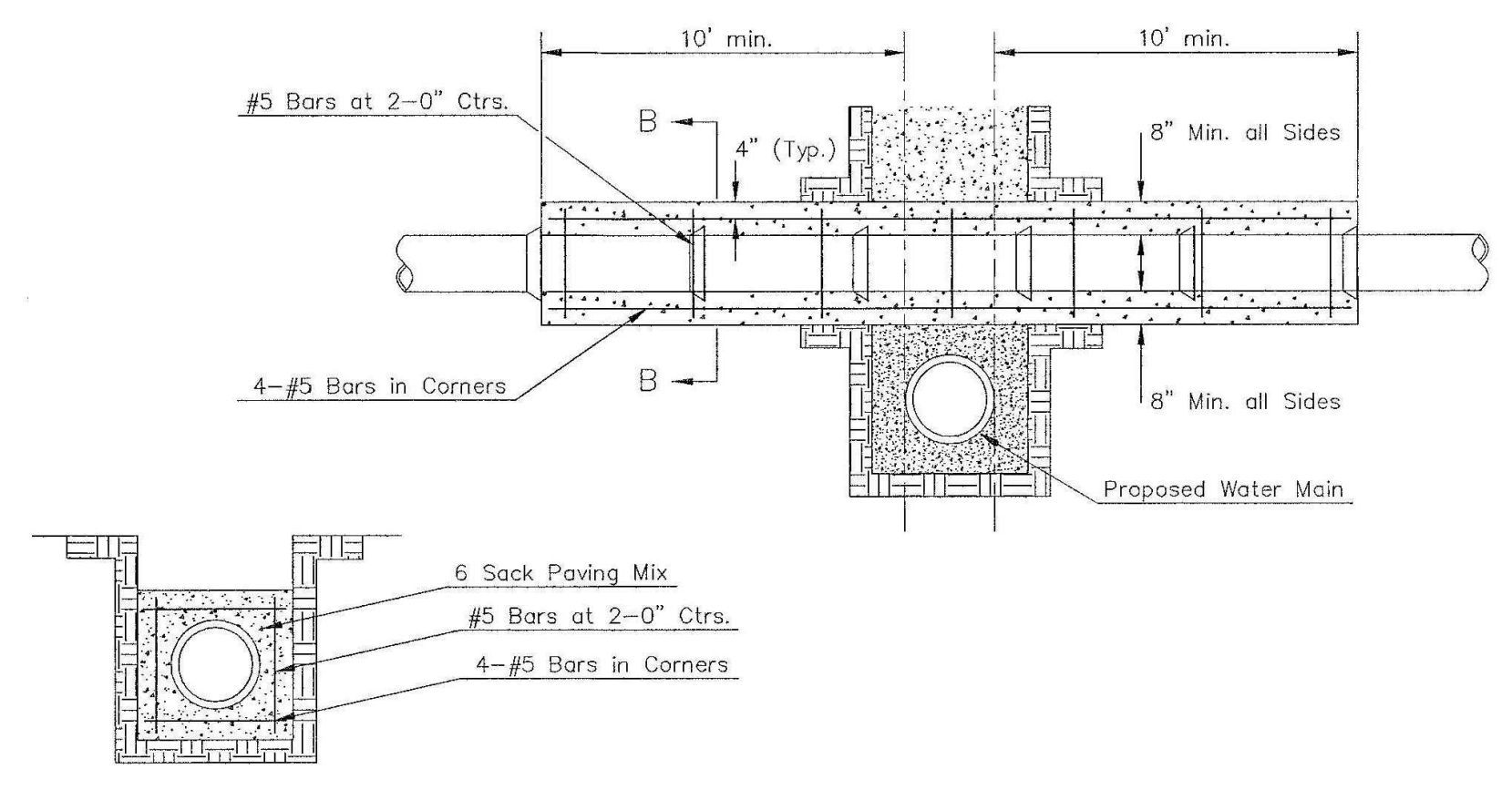
TRENCH COMPACTION IN ROAD RIGHT-OF-WAY



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



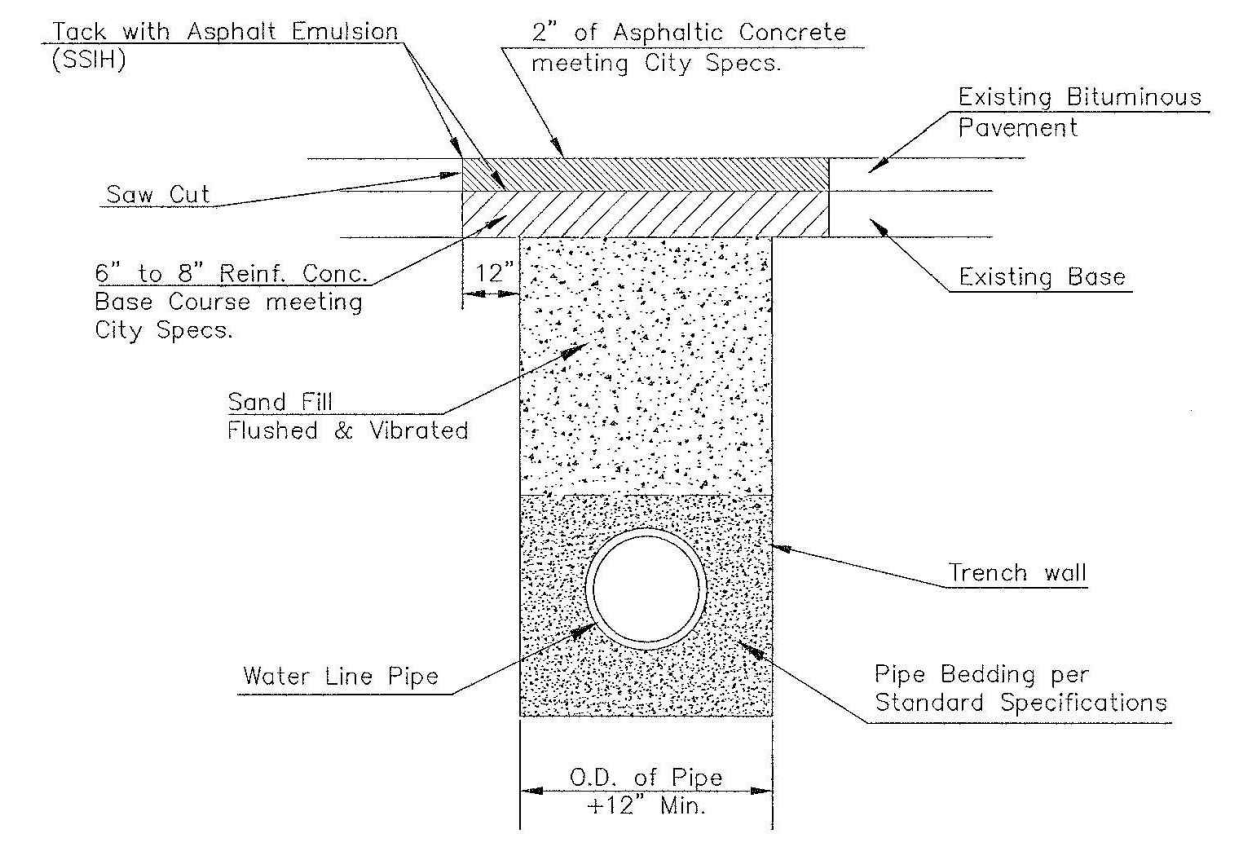
EXCAVATION FOR WET TAP



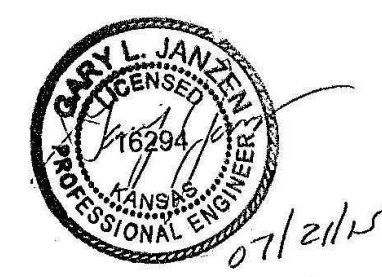
SECTION B-B

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



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) 268-4501		SHEET

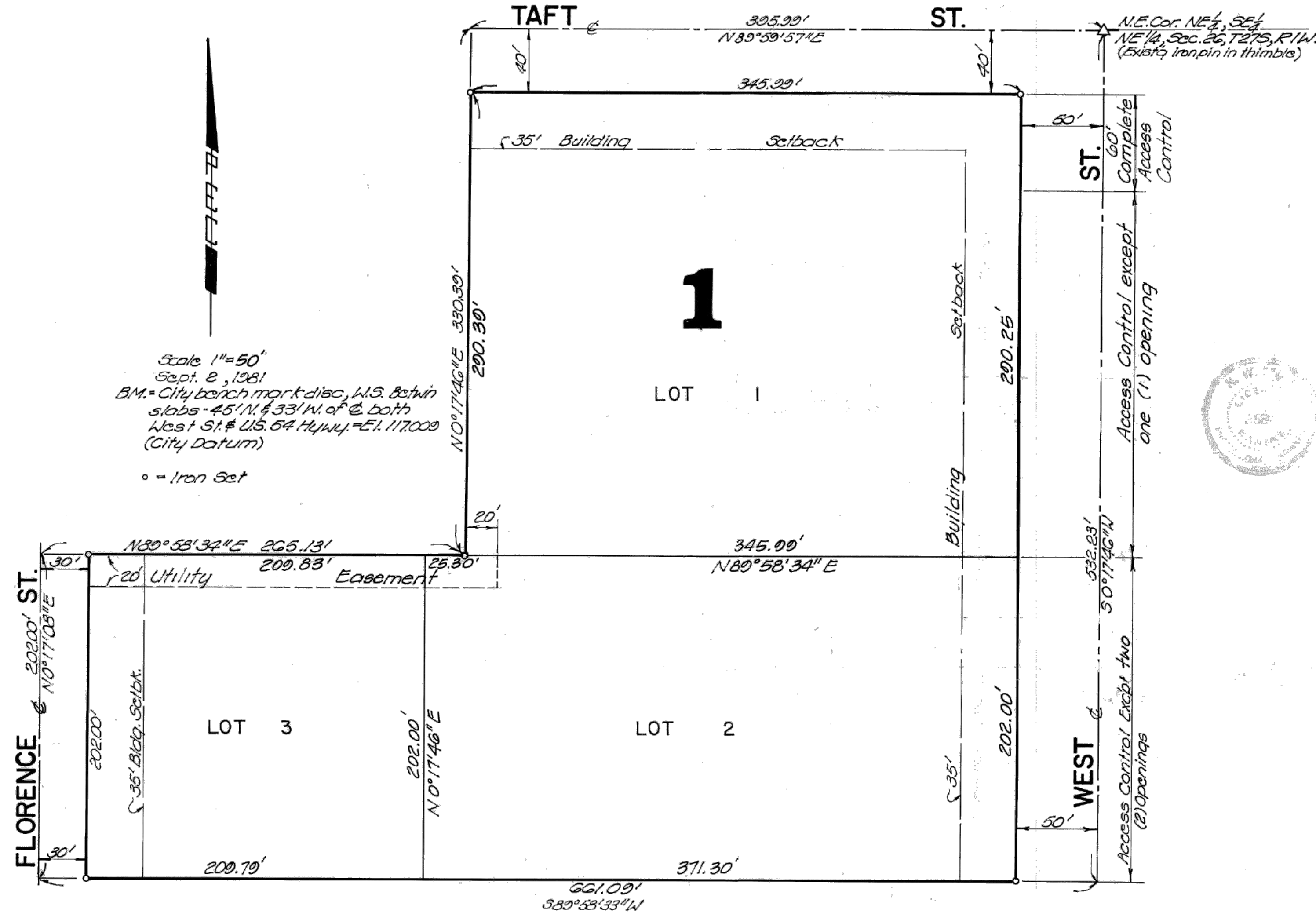
WL-104



PUBLISHED: 01/14/20	DRAWING INFORMATION: WATERLINE DETAILS
REVISIONS:	

EUREKA ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS



State of Kansas SS
 County of Sedgwick

I, R.W. Linn, a Professional Engineer in aforesaid State and County, do hereby certify that on this 22nd day of September, 1981, I have caused to be surveyed and plotted "EUREKA ADDITION" to Wichita, Sedgwick County, Kansas into Lots, a Block and Streets, the same being described as: Beginning at the NE Cor. of the NE 1/4, SE 1/4, NE 1/4 of Section 26, T27S, R11W, E 1/4 of the 6th PM; thence bearing S0°17'46"W along the E.L. of said NE 1/4, SE 1/4, NE 1/4, a distance of 532.231'; thence bearing S89°53'33"W a distance of 661.09 Ft. to the W.L. of said NE 1/4, SE 1/4, NE 1/4; thence bearing N0°17'08"E along said W.L. a distance of 202.00 Ft.; thence bearing N89°53'34"E along the S.L. of the N 1/2 of said NE 1/4, SE 1/4, NE 1/4 a distance of 225.18 Ft. to the SE Cor. of said Addition; thence bearing N0°17'46"E along the E.L. of said Addition a distance of 330.39 Ft. to the N.L. of said NE 1/4, SE 1/4, NE 1/4; thence bearing N80°59'57"E along said N.L. a distance of 395.29 Ft. to the point of beginning.



R.W. Linn
 R.W. Linn, P.E.
 #3684

Know all men by these presents that we, the undersigned property owners of the land as above set forth in the Engineer's Certificate, have caused the land to be surveyed and platted into lots, a Block and Streets, the same to be known as "EUREKA ADDITION" to Wichita, Sedgwick County, Kansas. Easement, as indicated for the construction and maintenance of public utilities are hereby granted. The Streets are hereby dedicated to and for the use of the public. All abutters' rights of access to and from West Street, over and across the E.L. of Lots 1 & 2 as shown, are hereby granted to the City of Wichita provided, however that lot 1, shall have access to West Street at one (1) location & Lot 2 at two (2) locations; said locations to be designated by the City Engineer of Wichita, Kansas.

Slawson Investment Corporation
John F. Rossillon
 John F. Rossillon, President

This plat has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas, on this 8th day of October, 1981.

James L. Gardner, II Chairman
Robert A. Lakin Secretary

This plat approved and all dedications shown hereon are accepted by the City Commission of the City of Wichita, Kansas, on this 26th day of October, 1981.

R.C. Brown Mayor
Donald C. Gisick City Clerk

This plat approved and all dedications shown hereon are accepted by the Board of County Commissioners of Sedgwick County, Kansas on this 26th day of October, 1981.

Donald C. Grogg Chairman
Jack Spratt Commissioner
Tom Scott Commissioner

Attest:
Dorothy R. White County Clerk
 Dorothy R. White

#559604

Entered on Transfer Record this 26 day of October, 1981.

Dorothy R. White County Clerk
 Dorothy R. White

State of Kansas SS
 County of Sedgwick

Be it remembered that on this 7th day of October, 1981, before me, a notary public in aforesaid State and County, came Slawson Investment Corporation, by John F. Rossillon, Pres., to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledge the same for and on behalf and as the voluntary act and deed of said Corporation, in testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.



Gretchen H. Jones
 Notary Public

My Commission expires November 7, 1983

This is to certify that this instrument was filed for record in the Register of Deeds Office at 2:46 P.M. on this 26th day of OCTOBER, 1981.

Bette F. McCurt Register of Deeds
Pat Kettler Deputy

20.00