

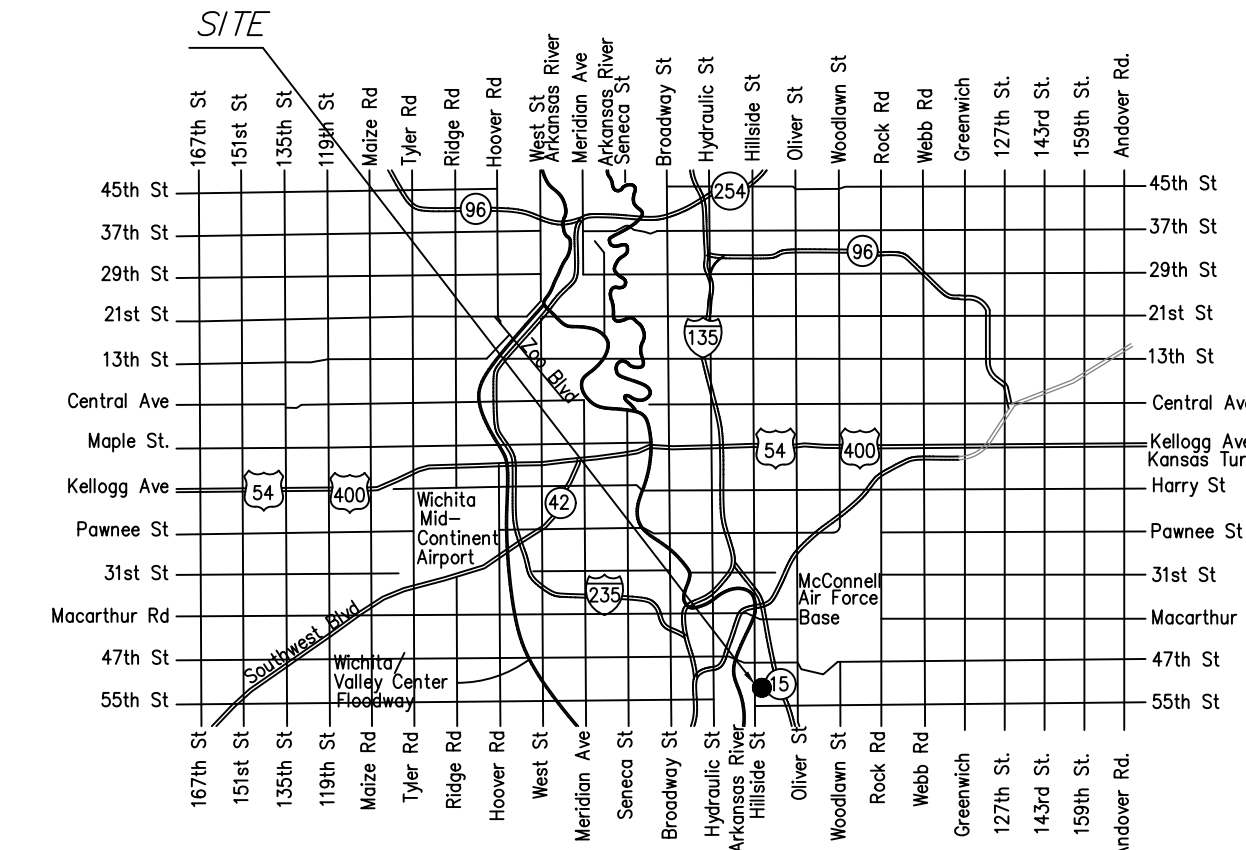
WATER DISTRIBUTION SYSTEM to serve **OAKLAWN ELEMENTARY SCHOOL**

Lot 1, Block 1, Oaklawn Elementary Addition
Sedgwick County, Kansas
(5000 South Clifton, Wichita, Kansas 67216)

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer

Project Number
2020-020857 PPW (183021)



VICINITY MAP

SHEET INDEX

Title Sheet.....	1
Water Line No. 1 Plan/Profile.....	2
Water Line No. 2 Plan/Profile.....	3
Water Line No. 3 Plan/Profile.....	4
Standard Water Assembly Details (COW WL-101).....	5
Standard Vault Details and Meter Assemblies (COW WL-103).....	6
Miscellaneous Water Details (COW WL-104).....	7
Erosion Control BMP Details.....	8-12
Plat.....	13

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS
ENGINEERING DIVISION

Engineering _____ approved by Seth Gotchey on 11/04/20

Utilities _____ approved by Greg Lolley on 11/04/20

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 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.

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.

OCTOBER 2020

YOUNG & ASSOCIATES, P.A.
Professional Civil Engineering Consultants
100 S. Georgia, Derby, KS 67037
tele: (316)788-2552 fax: (316)788-4408 email: engineering@ya-pa.com

Sheet No.
1 of 13

GENERAL NOTES:

- The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City of Wichita 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 1-800-246-8464
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
Evergy 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 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.
- The Contractor shall notify the inspecting engineer and Tom Mason with the City at 316-268-4574 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@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, 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 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 distributions 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 water lines. Connections to the existing water line(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 preformed 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 316-291-8921.
- All wet taps shall be installed by the City of Wichita. Unless otherwise indicated in the plans, the Contractor shall reimburse the City for tapping fees.
- 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 openings overnight and weekends to less than 50 feet.
- Sedgwick County Fire Department inspections may be scheduled by calling 316-660-3473.

HORIZONTAL CONTROL DATA:

- HCP 2, Nail and Washer (found) at the Northwest Corner of Lot 1, Block 1, Oaklawn Elementary Addition, an Addition to Sedgwick County Kansas.
N.=1655340.729
E.=1661720.761
- HCP 2046, Hub and Tac (set) in grass area approx. 48.4' South and 33.4' West of the Southeast corner of the asphalt playground area on the east side of the Oaklawn Elementary building.
N.=1654874.414
E.=1662082.682
- HCP 2047, Hub and Tac (set) in grass area approx. 3.6' North and 90.6' West of the Northeast corner of the 4' chain link fence on the east side of the playground area.
N.=1655203.244
E.=1662189.160

VERTICAL CONTROL DATA:

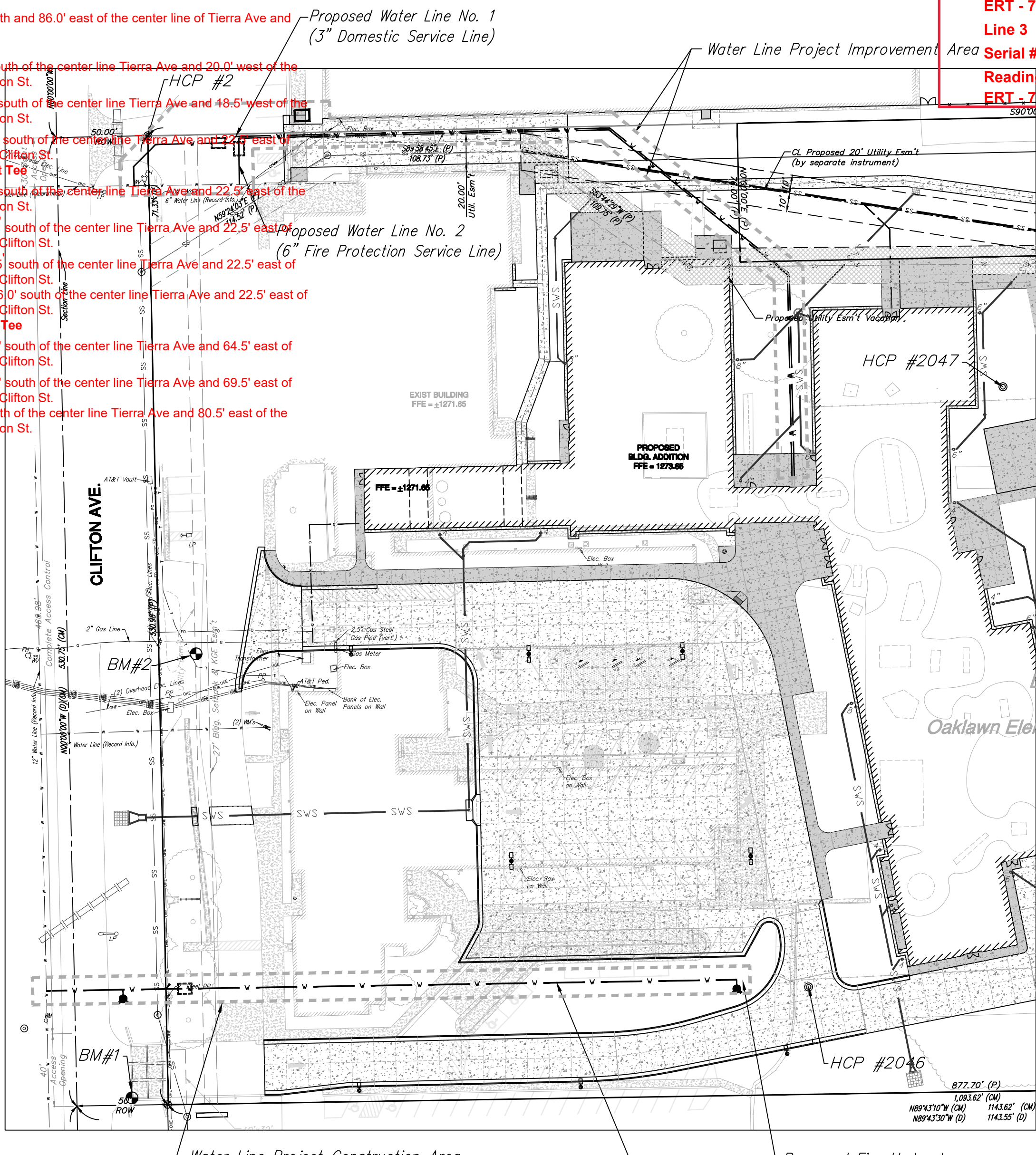
- BM#1 - Chisled "□" (found), at the West end of hubguard on the south side of southern most driveway into Oaklawn Elementary. Elev.=1270.92 (NAVD88)
- BM#2, Nail and Washer (set) approx. 58.2' West of the Northwest corner of the Electric Transformers near the main entrance on the West side of the Oaklawn Elementary Building. Elev.=1270.24 (NAVD88)

- Fittings in Easement**
- Line 1**
Tap - 498.0' south and 35' east of the center line of Tierra Ave and Clifton St.
Valve - 496.5' south and 35' east of the center line of Tierra Ave and Clifton St.
45° Bend - 489.0' south and 35' east of the center line of Tierra Ave and Clifton St.
45° Bend - 486.5' south and 37.5' east of the center line of Tierra Ave and Clifton St.
45° Bend - 479.8' south and 41.5' east of the center line of Tierra Ave and Clifton St.
45° Bend - 479.8' south and 76.0' east of the center line of Tierra Ave and Clifton St.
- Line 2**
6X6X6 Tee - 498.0' south and 39.0' east of the center line of Tierra Ave and Clifton St.
6" Valve (N) - 494.0' south and 39.0' east of the center line of Tierra Ave and Clifton St.
6" Valve (E) - 498.0' south and 41.5' east of the center line of Tierra Ave and Clifton St.
Vault - 478.5' south and 86.0' east of the center line of Tierra Ave and Clifton St.
- Line 3**
8" Tap - 942.0' south of the center line Tierra Ave and 20.0' west of the center line of Clifton St.
8" Valve - 942.0' south of the center line Tierra Ave and 48.5' west of the center line of Clifton St.
8X6 Tee - 942.0' south of the center line Tierra Ave and 44.2' east of the center line of Clifton St.
South - 6" line at Tee
6" Valve - 943.0' south of the center line Tierra Ave and 22.5' east of the center line of Clifton St.
90° Bend - 944.5' south of the center line Tierra Ave and 22.5' east of the center line of Clifton St.
90° Bend - 944.5' south of the center line Tierra Ave and 22.5' east of the center line of Clifton St.
Fire Hydrant - 948.0' south of the center line Tierra Ave and 22.5' east of the center line of Clifton St.
East - 8" Line at Tee
45° Bend - 942.0' south of the center line Tierra Ave and 64.5' east of the center line of Clifton St.
45° Bend - 942.0' south of the center line Tierra Ave and 69.5' east of the center line of Clifton St.
Vault - 942.0' south of the center line Tierra Ave and 80.5' east of the center line of Clifton St.

- Material List**
- ProTrace Tracer Wire
 - American Pipe
 - C900 PVC
 - Muller Valve
 - Star Fittings
 - Muller (Storz) Fire Hydrant Assembly
 - SIP MJ acc. pack

- Badger Meters**
- Line 2
 - Serial # 220953654
 - Reading - 000000.00
 - ERT - 71913278
 - Line 3
 - Serial # 200171998
 - Reading - 019645.36
 - ERT - 72310099

- VAULT Measurements**
- Line 1 - 479.8' south and 76.0' east of the center line of Tierra Ave and Clifton St.
 - Line 2 - 478.5' south and 86.0' east of the center line of Tierra Ave and Clifton St.
 - Line 3 - Vault - 942.0' south of the center line Tierra Ave and 80.5' east of the center line of Clifton St.



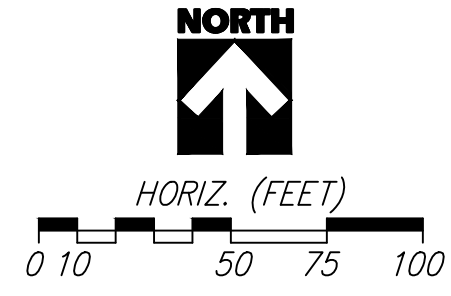
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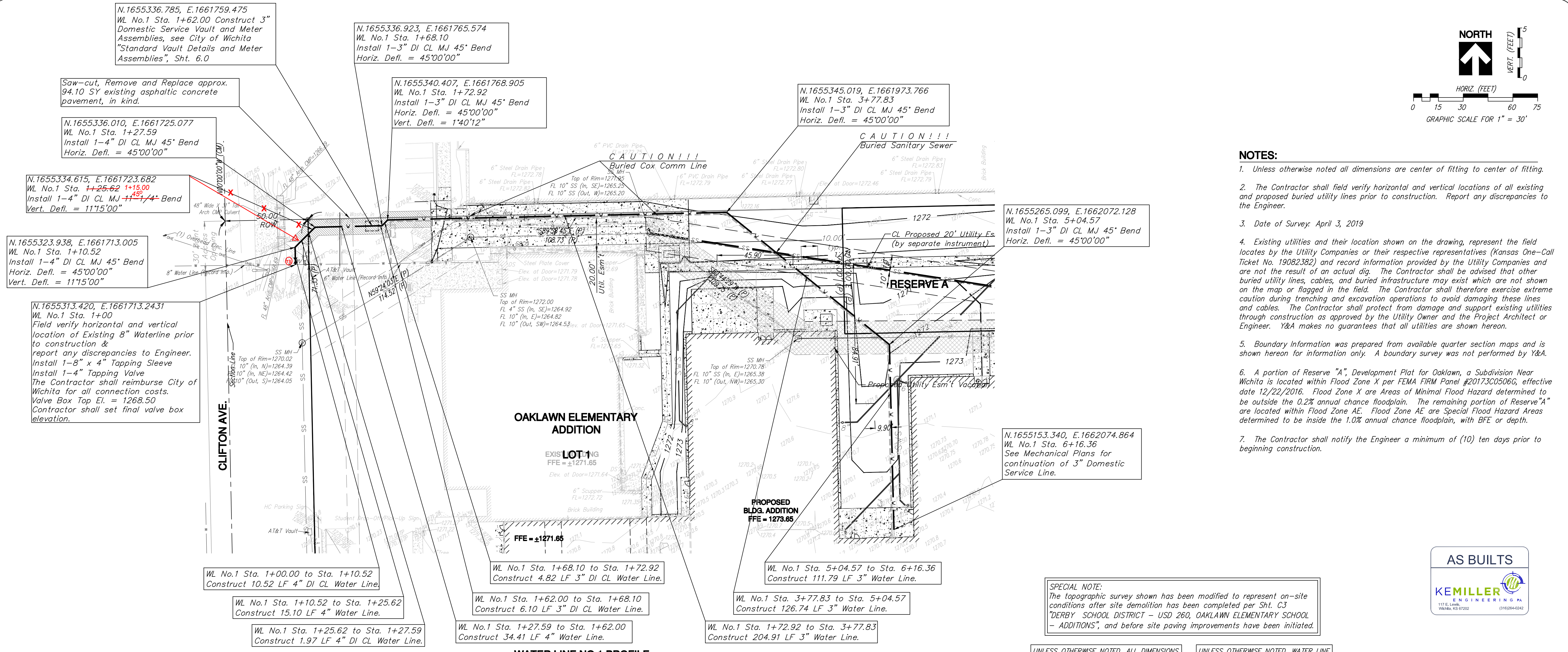
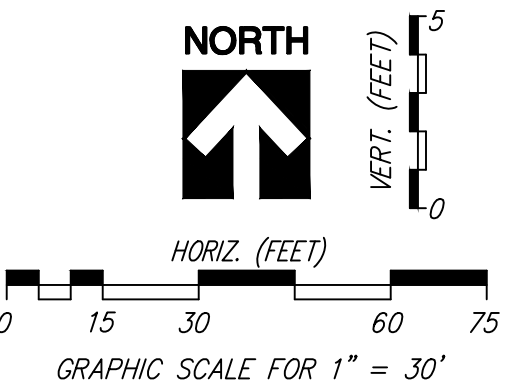
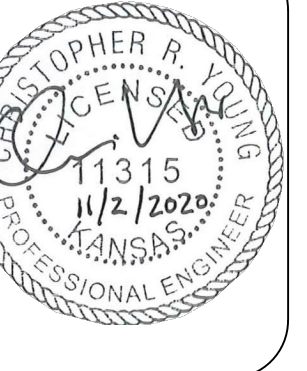
- Existing Spot Elevation
- TC = Top of Curb Elevation
- FL = Flowline Elevation
- TW = Top of Wall Elevation
- DS = Exist. Building Down Spout
- ICV = Exist. Irrigation Control Valve Vault
- Exist. Sign
- LP = Exist. Lightpole
- 4" SSCC = Exist. Sanitary Sewer Cleanout
- SS MH = Exist. Sanitary Sewer Manhole
- WV = Exist. Water Valve
- WM = Exist. Water Meter
- FH = Exist. Fire Hydrant
- AT&T Ped. = Exist. AT&T Pedestal
- Cox Ped. = Exist. Cox Pedestal
- UG = Exist. Underground Electric Line
- G = Exist. Buried Gas Line
- COM = Exist. Communication Line
- TEL = Exist. Telephone Line
- SS = Exist. Sanitary Sewer Line
- SW = Exist. Sanitary Water Line
- SSW = Exist. Storm Sewer Line
- SSW = Proposed Sanitary Sewer Line
- W = Proposed Water Line

AS BUILTS

Contractor: McCullough Excavation
Date: 03/30/2023

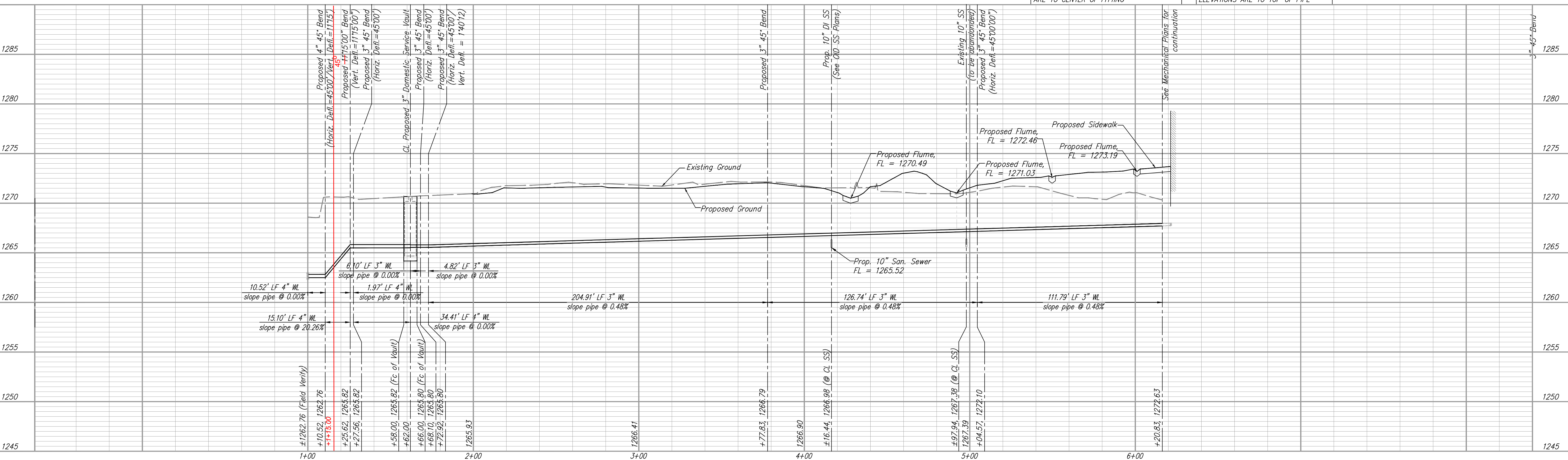
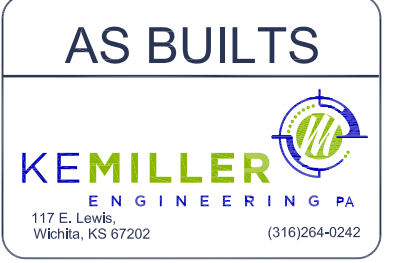
Project Inspector: Tom Jones
KE MILLER ENGINEERING
117 E. Lewis, Wichita, KS 67202 (316)264-0242





- NOTES:**
1. Unless otherwise noted all dimensions are center of fitting to center of fitting.
 2. The Contractor shall field verify horizontal and vertical locations of all existing and proposed buried utility lines prior to construction. Report any discrepancies to the Engineer.
 3. Date of Survey: April 3, 2019
 4. Existing utilities and their location shown on the drawing, represent the field locates by the Utility Companies or their respective representatives (Kansas One-Call Ticket No. 19082382) and record information provided by the Utility Companies and are not the result of an actual dig. The Contractor shall be advised that other buried utility lines, cables, and buried infrastructure may exist which are not shown on the map or flagged in the field. The Contractor shall therefore exercise extreme caution during trenching and excavation operations to avoid damaging these lines and cables. The Contractor shall protect from damage and support existing utilities through construction as approved by the Utility Owner and the Project Architect or Engineer. Y&A makes no guarantees that all utilities are shown hereon.
 5. Boundary Information was prepared from available quarter section maps and is shown hereon for information only. A boundary survey was not performed by Y&A.
 6. A portion of Reserve "A", Development Plat for Oaklawn, a Subdivision Near Wichita is located within Flood Zone X per FEMA FIRM Panel #20173C0506G, effective date 12/22/2016. Flood Zone X are Areas of Minimal Flood Hazard determined to be outside the 0.2% annual chance floodplain. The remaining portion of Reserve "A" are located within Flood Zone AE. Flood Zone AE are Special Flood Hazard Areas determined to be inside the 1.0% annual chance floodplain, with BFE or depth.
 7. The Contractor shall notify the Engineer a minimum of (10) ten days prior to beginning construction.

SPECIAL NOTE:
The topographic survey shown has been modified to represent on-site conditions after site demolition has been completed per Sht. C3 "DERBY SCHOOL DISTRICT - USD 260, OAKLAWN ELEMENTARY SCHOOL - ADDITIONS", and before site paving improvements have been initiated.



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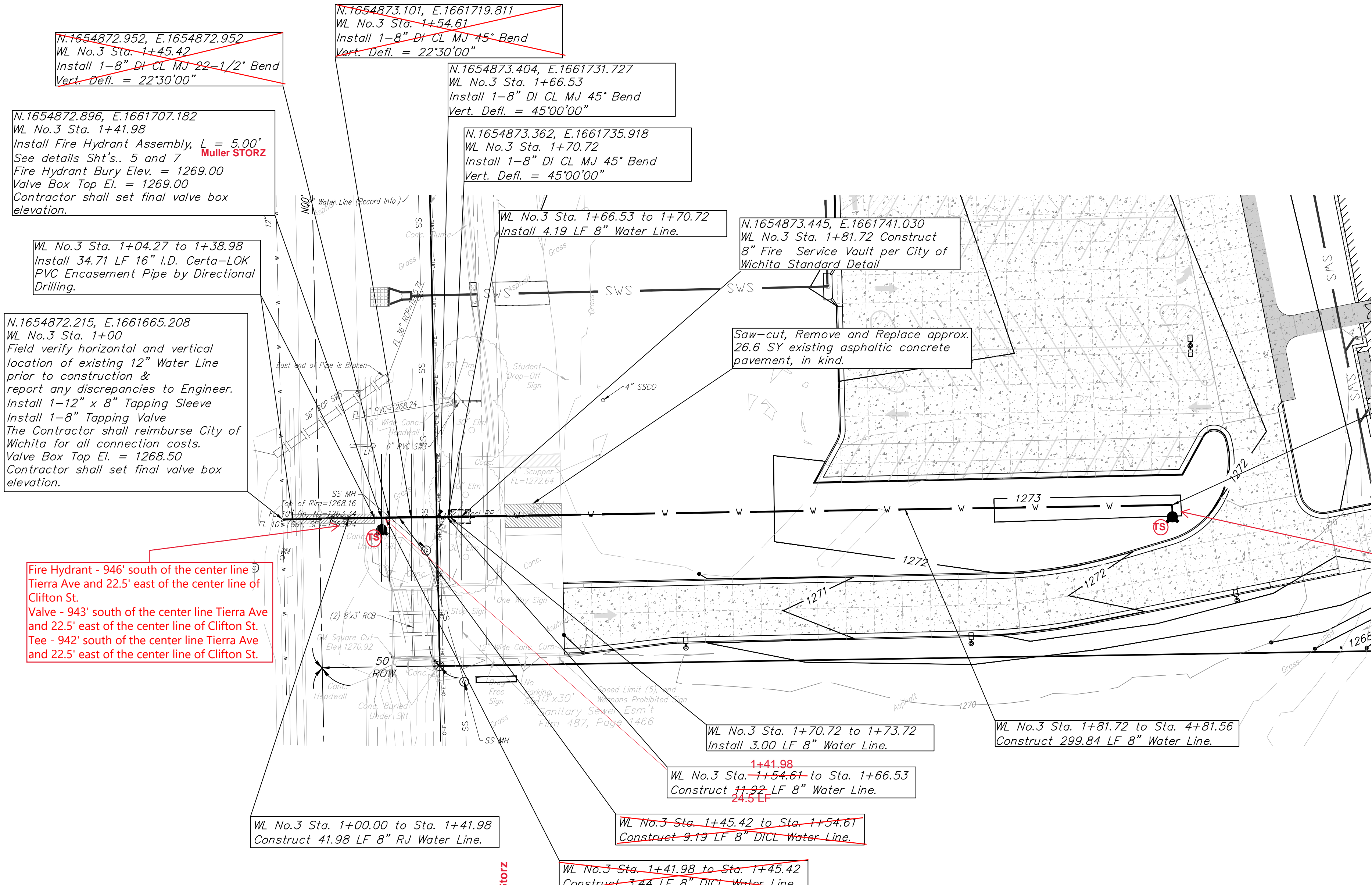
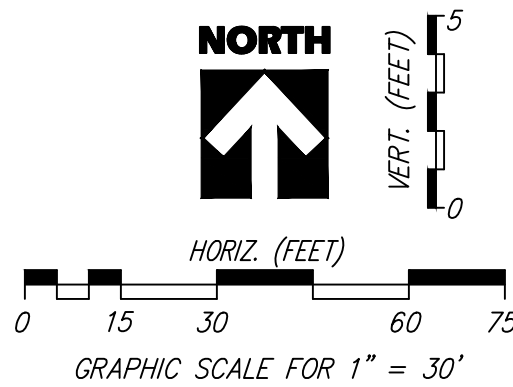
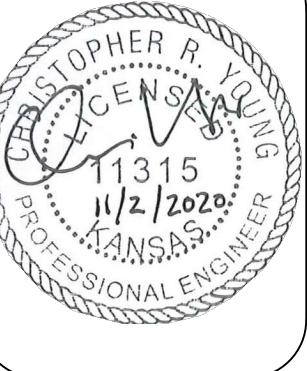
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WL NO. 1 - 3" DOMESTIC WATER LINE PLAN & PROFILE
OAKLAWN ELEMENTARY SCHOOL
Unified School District No. 260
3000 South Clifton
Wichita, Sedgwick County, Kansas

scale: as noted
Design By: CRY
Drawn By: KLH
Checked By: MLD
P/N: 19-456
Prints Issued:
Prelim. Plans, 07-07-2020
Final Plans, 11-04-2020

Revisions:

△	
△	
△	
△	



N.1654872.952, E.1654872.952
WL No.3 Sta. 1+45.42
Install 1-8" DI CL MJ 22-1/2' Bend
Vert. Defl. = 22'30"00"

N.1654873.101, E.1661719.811
WL No.3 Sta. 1+54.61
Install 1-8" DI CL MJ 45° Bend
Vert. Defl. = 22'30"00"

N.1654873.404, E.1661731.727
WL No.3 Sta. 1+66.53
Install 1-8" DI CL MJ 45° Bend
Vert. Defl. = 45'00"00"

N.1654873.362, E.1661735.918
WL No.3 Sta. 1+70.72
Install 1-8" DI CL MJ 45° Bend
Vert. Defl. = 45'00"00"

N.1654872.896, E.1661707.182
WL No.3 Sta. 1+41.98
Install Fire Hydrant Assembly, L = 5.00'
See details Sht's. 5 and 7
Fire Hydrant Bury Elev. = 1269.00
Valve Box Top El. = 1269.00
Contractor shall set final valve box elevation.

WL No.3 Sta. 1+04.27 to 1+38.98
Install 34.71 LF 16" I.D. Certa-LOK
PVC Encasement Pipe by Directional
Drilling.

N.1654872.215, E.1661665.208
WL No.3 Sta. 1+00
Field verify horizontal and vertical
location of existing 12" Water Line
prior to construction &
report any discrepancies to Engineer.
Install 1-12" x 8" Tapping Sleeve
Install 1-8" Tapping Valve
The Contractor shall reimburse City of
Wichita for all connection costs.
Valve Box Top El. = 1268.50
Contractor shall set final valve box
elevation.

Fire Hydrant - 946' south of the center line
Tierra Ave and 22.5' east of the center line of
Clifton St.
Valve - 943' south of the center line Tierra Ave
and 22.5' east of the center line of Clifton St.
Tee - 942' south of the center line Tierra Ave
and 22.5' east of the center line of Clifton St.

WL No.3 Sta. 1+66.53 to 1+70.72
Install 4.19 LF 8" Water Line.

N.1654873.445, E.1661741.030
WL No.3 Sta. 1+81.72 Construct
8" Fire Service Vault per City of
Wichita Standard Detail

Saw-cut, Remove and Replace approx.
26.6 SY existing asphaltic concrete
pavement, in kind.

N.1654878.346, E.1662043.281
WL No.3 Sta. 4+81.56
Install Fire Hydrant Assembly, L = 5.00'
See details Sht's. 5 and 7
Fire Hydrant Bury Elev. = 1273.00
Valve Box Top El. = 1273.00
Contractor shall set final valve box
elevation.

Fire Hydrant - 946' south of the center line
Tierra Ave and 361.0' east of the center line
of Clifton St.
Valve - 943' south of the center line Tierra
Ave and 361.0' east of the center line of
Clifton St.
Tee - 942' south of the center line Tierra
Ave and 361.0' east of the center line of
Clifton St.

WL No.3 Sta. 1+00.00 to Sta. 1+41.98
Construct 41.98 LF 8" RJ Water Line.

WL No.3 Sta. 1+45.42 to Sta. 1+54.61
Construct 9.19 LF 8" DI CL Water Line.

WL No.3 Sta. 1+41.98 to Sta. 1+66.53
Construct 24.3 LF 8" Water Line.

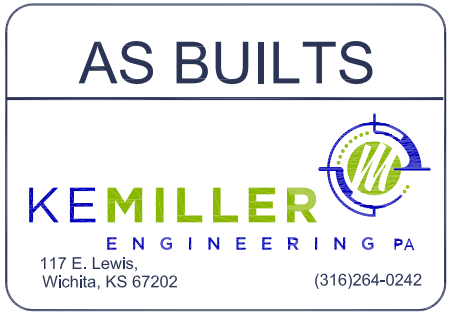
WL No.3 Sta. 1+70.72 to 1+73.72
Install 3.00 LF 8" Water Line.

WL No.3 Sta. 1+81.72 to Sta. 4+81.56
Construct 299.84 LF 8" Water Line.

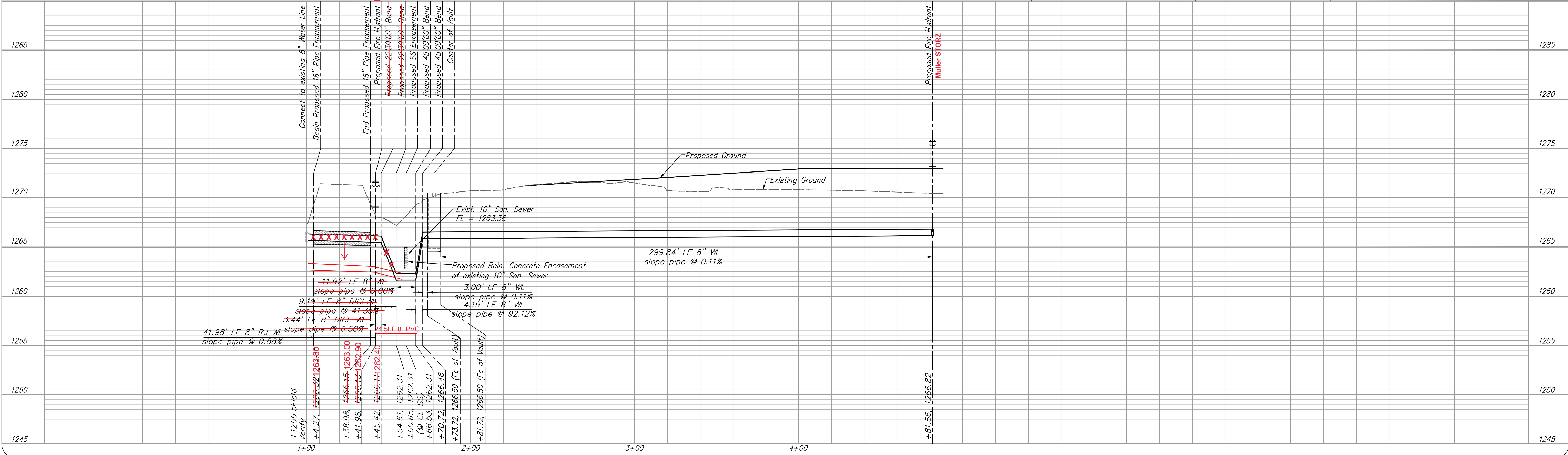
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"DERBY SCHOOL DISTRICT - USD 260, OAKLAWN ELEMENTARY SCHOOL
- ADDITIONS", and before site paving improvements have been initiated.

UNLESS OTHERWISE NOTED, ALL DIMENSIONS
ARE TO CENTER OF FITTING

UNLESS OTHERWISE NOTED, WATER LINE
ELEVATIONS ARE TO TOP OF PIPE



WATER LINE NO.3 PROFILE



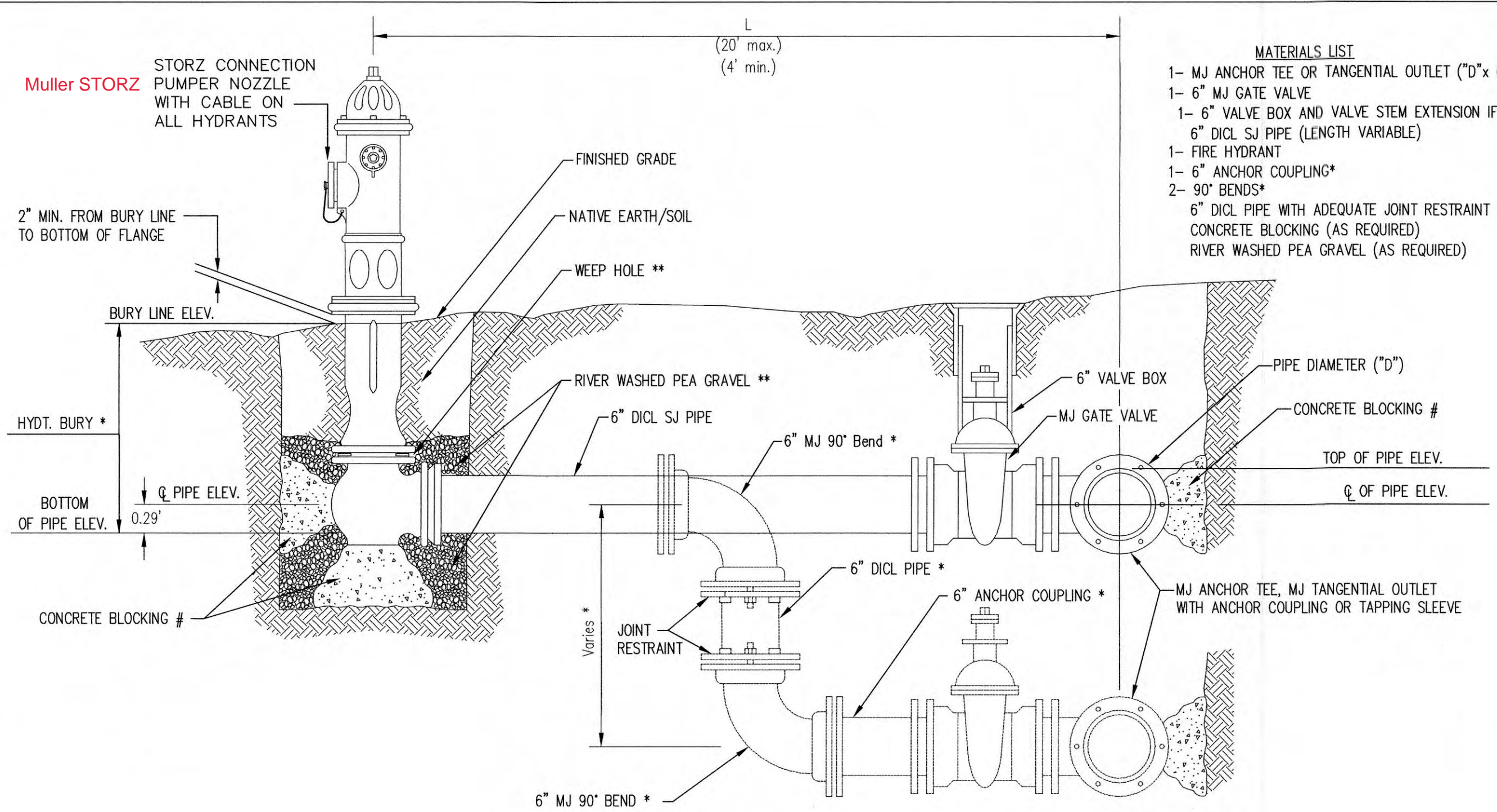
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Professional Civil Engineering Consultants
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tel: (316)788-2552 fax: (316)788-4408 email: engineering@yngpa.com

WL NO.3 8" WATER LINE PLAN & PROFILE
OAKLAWN ELEMENTARY SCHOOL
Unified School District No. 260
5000 South Clifton
Wichita, Sedgwick County, Kansas

scale: as noted
Design By: CRY
Drawn By: KLH
Checked By: MLD
P/N: 19-456
Prints Issued:
Prelim. Plans, 07-07-2020
Final Plans, 11-04-2020

Revisions:
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△
△

Sheet No.
4 of 13



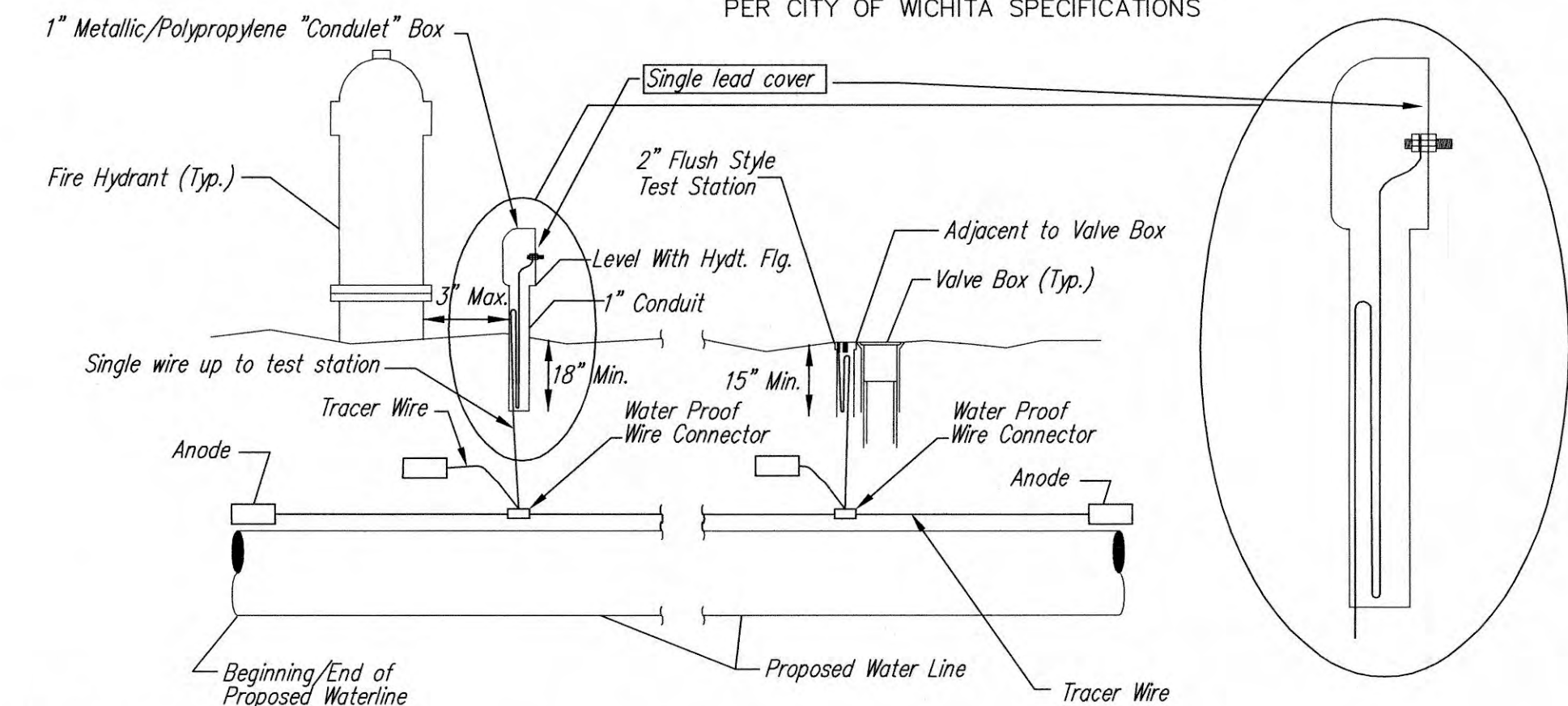
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET ("D"x 6")
 - 1- 6" MJ GATE VALVE
 - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
 - 6" DI CL SJ PIPE (LENGTH VARIABLE)
 - 1- FIRE HYDRANT
 - 1- 6" ANCHOR COUPLING*
 - 2- 90° BENDS*
 - 6" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT *
 -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

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.

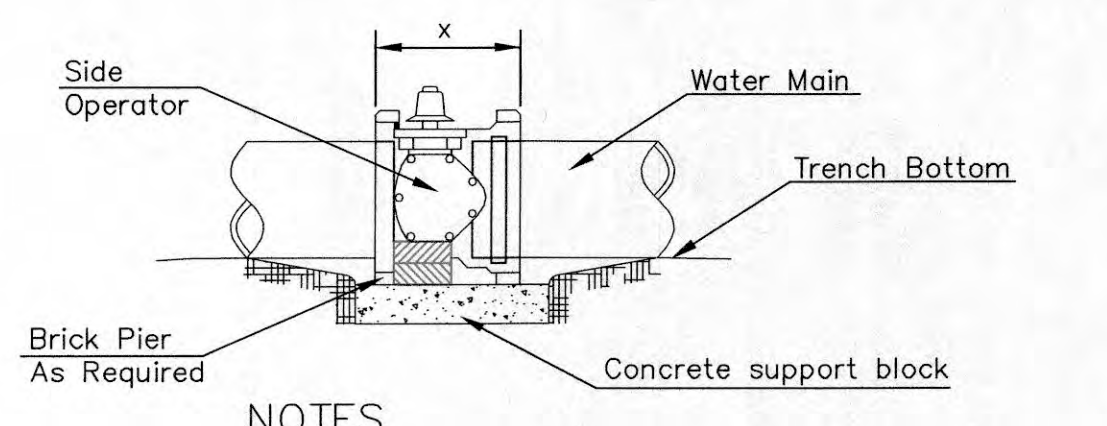
TEST STATIONS
The test station for fire hydrant application shall be a 1" "condulet" style station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized 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 # T2PH7BILP Handley Industries or CD14*IP 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

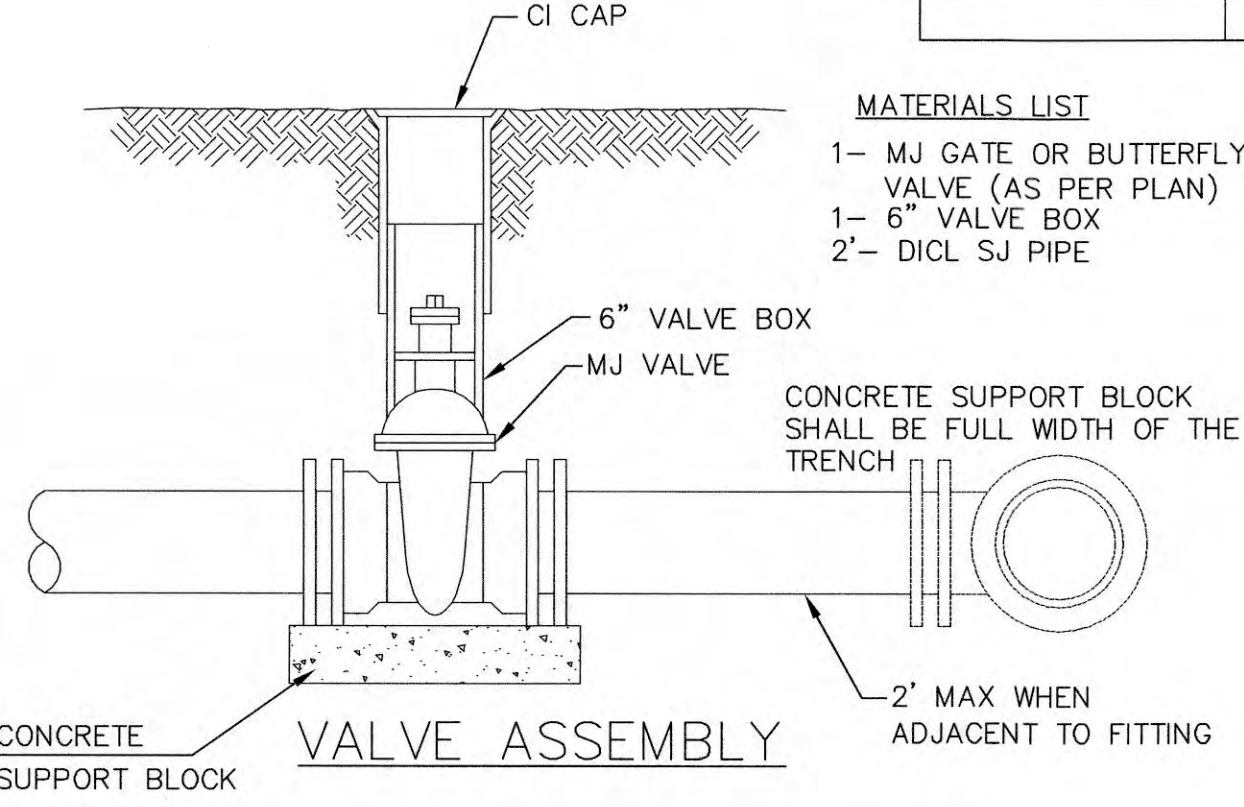
FIRE HYDRANTS REQUIRED

STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
6" WL, 1+41.98	1269.04	1266.13	2.91	N/A
6" WL, 4+81.56	1273.00	1266.82	6.18	1.18

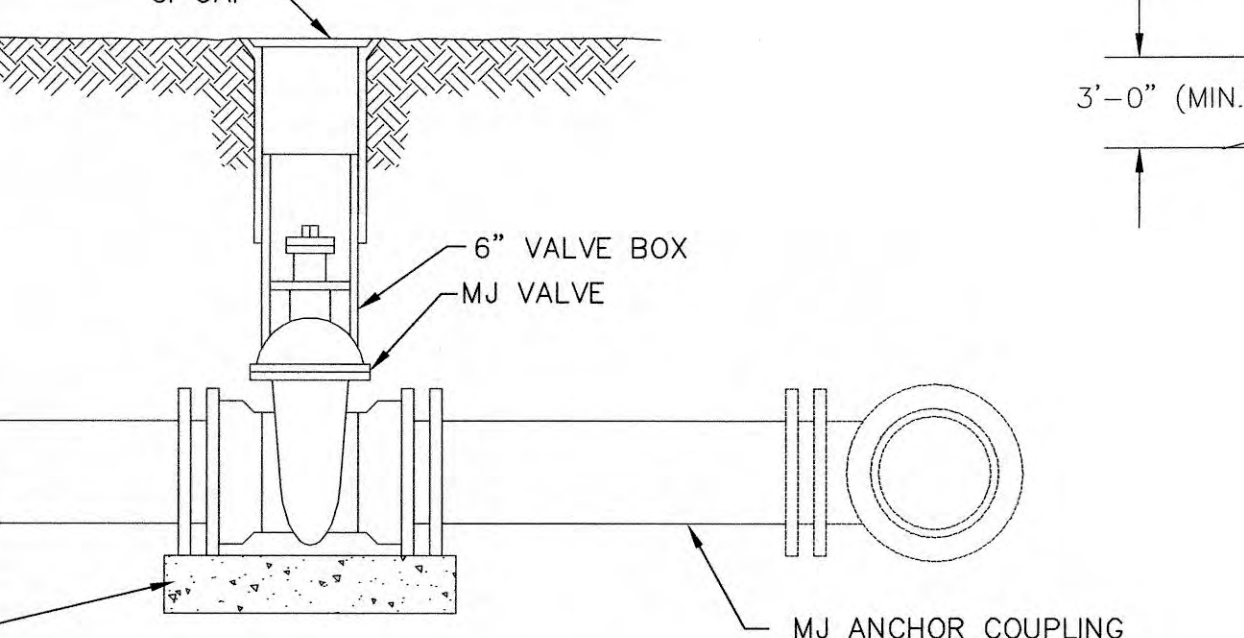


- NOTES**
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
 - 6" Valve Box and Cover required per City of Wichita Std. Specifications.
 - Conc. Support Block to be full width of trench.

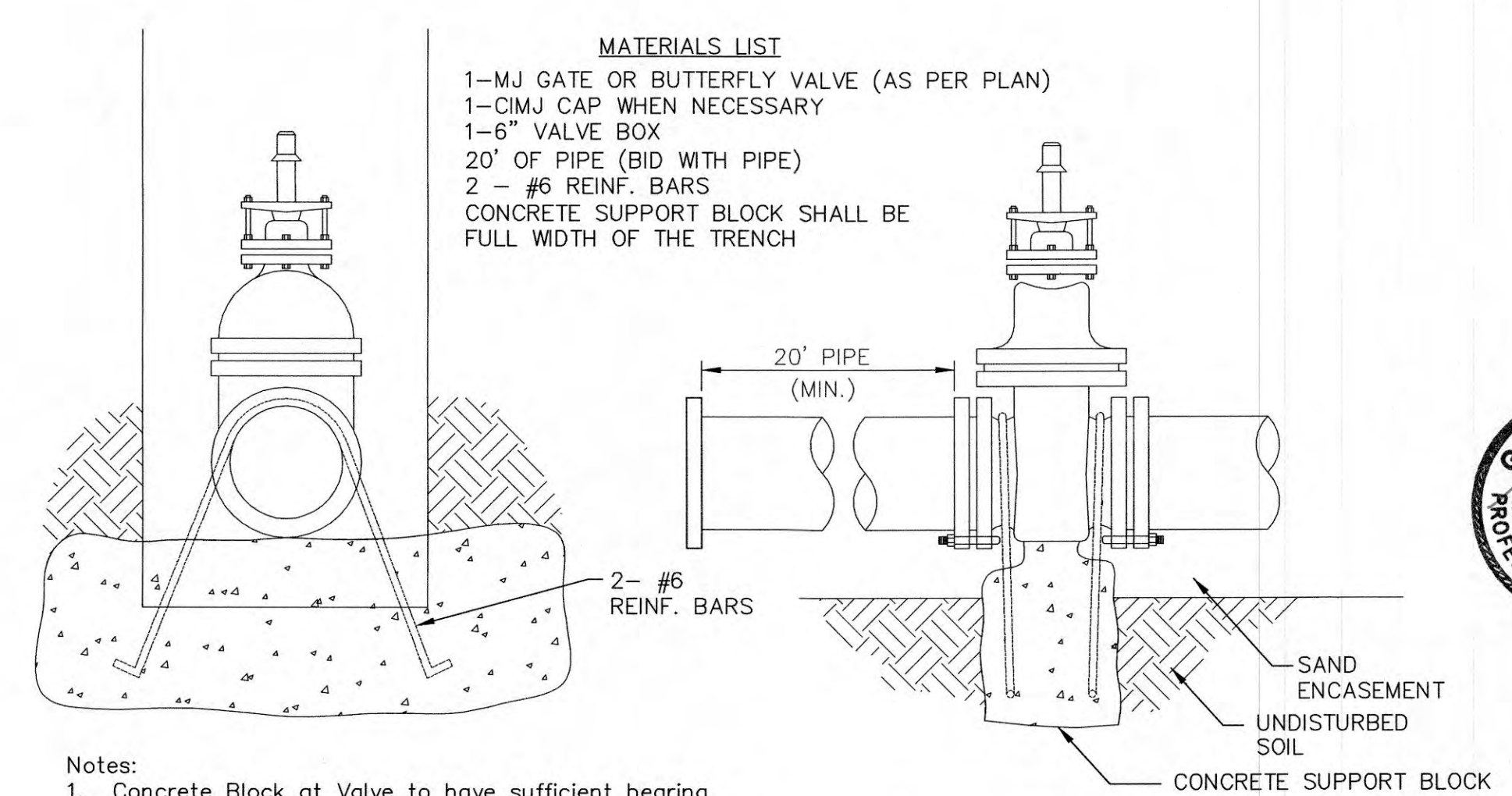
CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



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



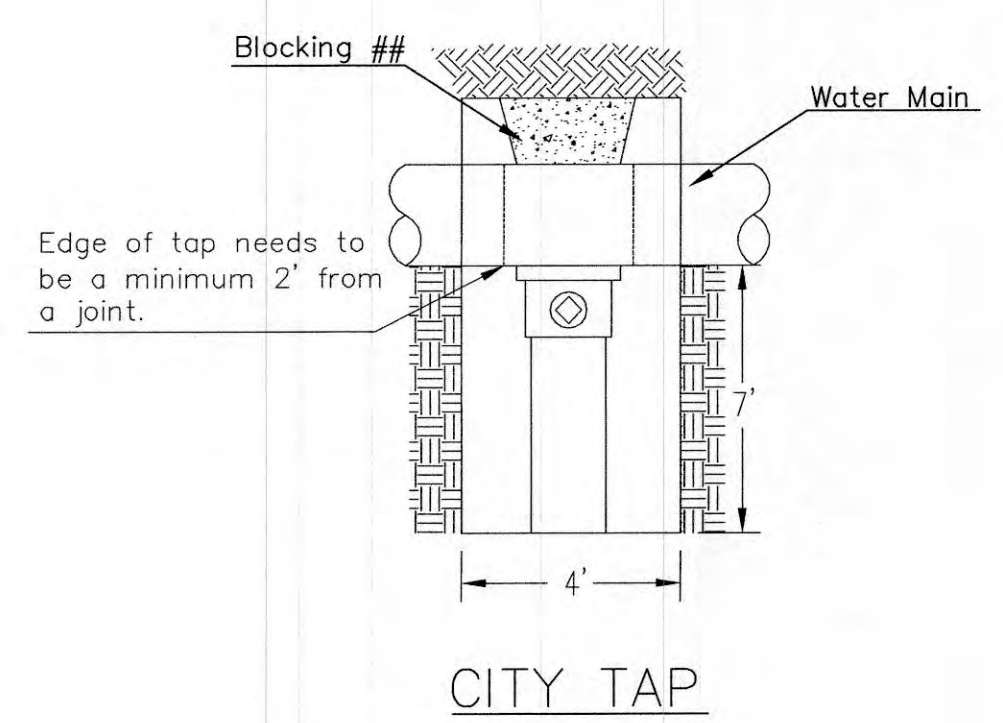
ANCHORED VALVE ASSEMBLY, SPECIAL



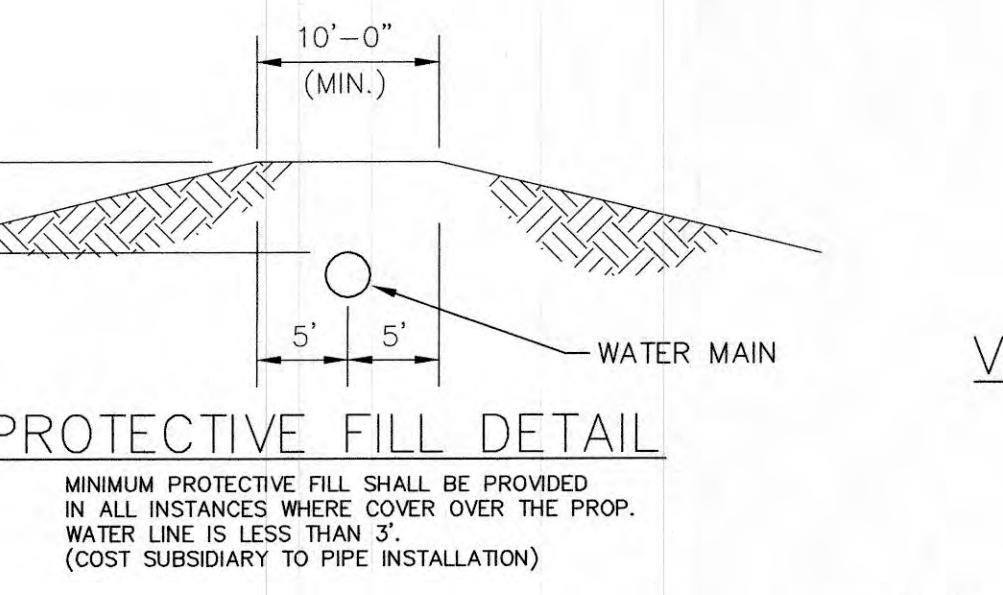
- Notes:**
- Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
 - The thrust block shall be constructed such that bolts, nuts, and 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

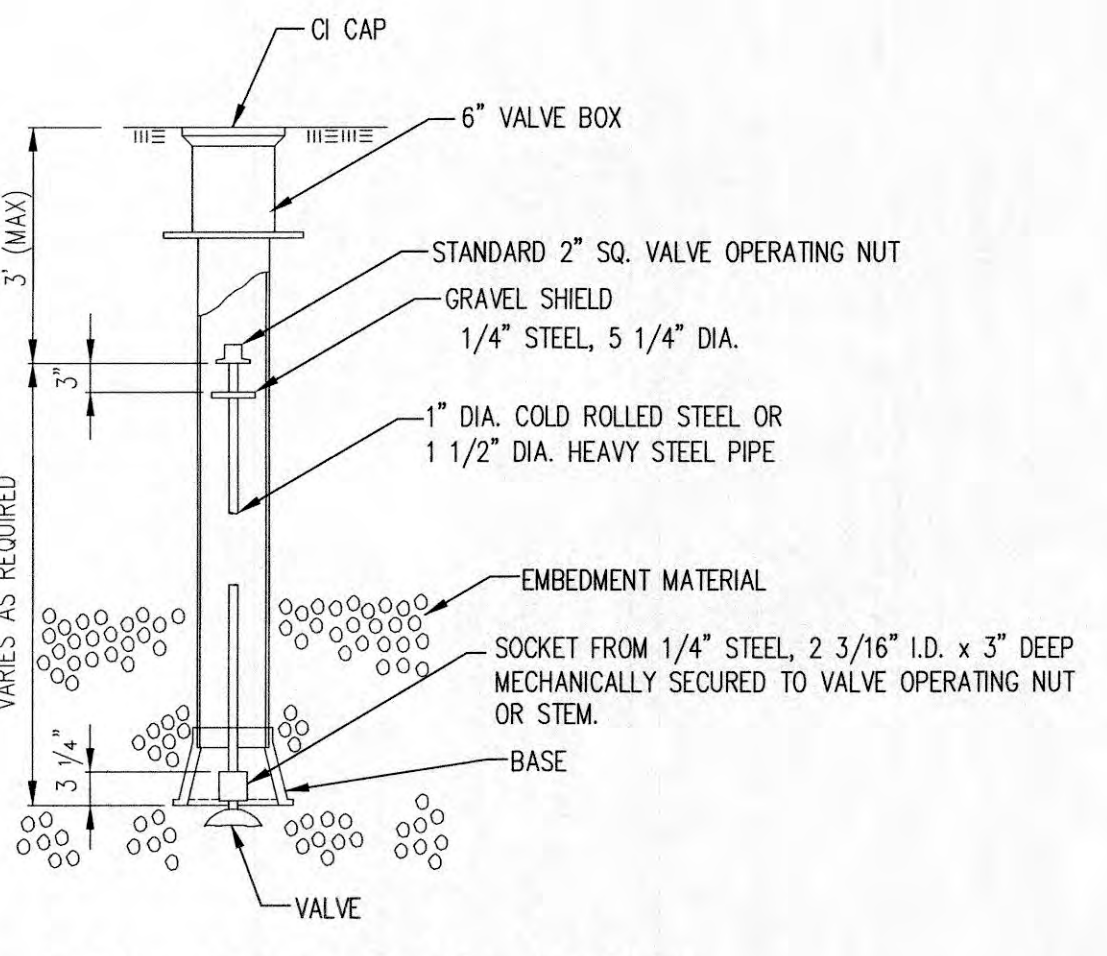
VALVE	THRUST AT 150 #/sq. in.
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.



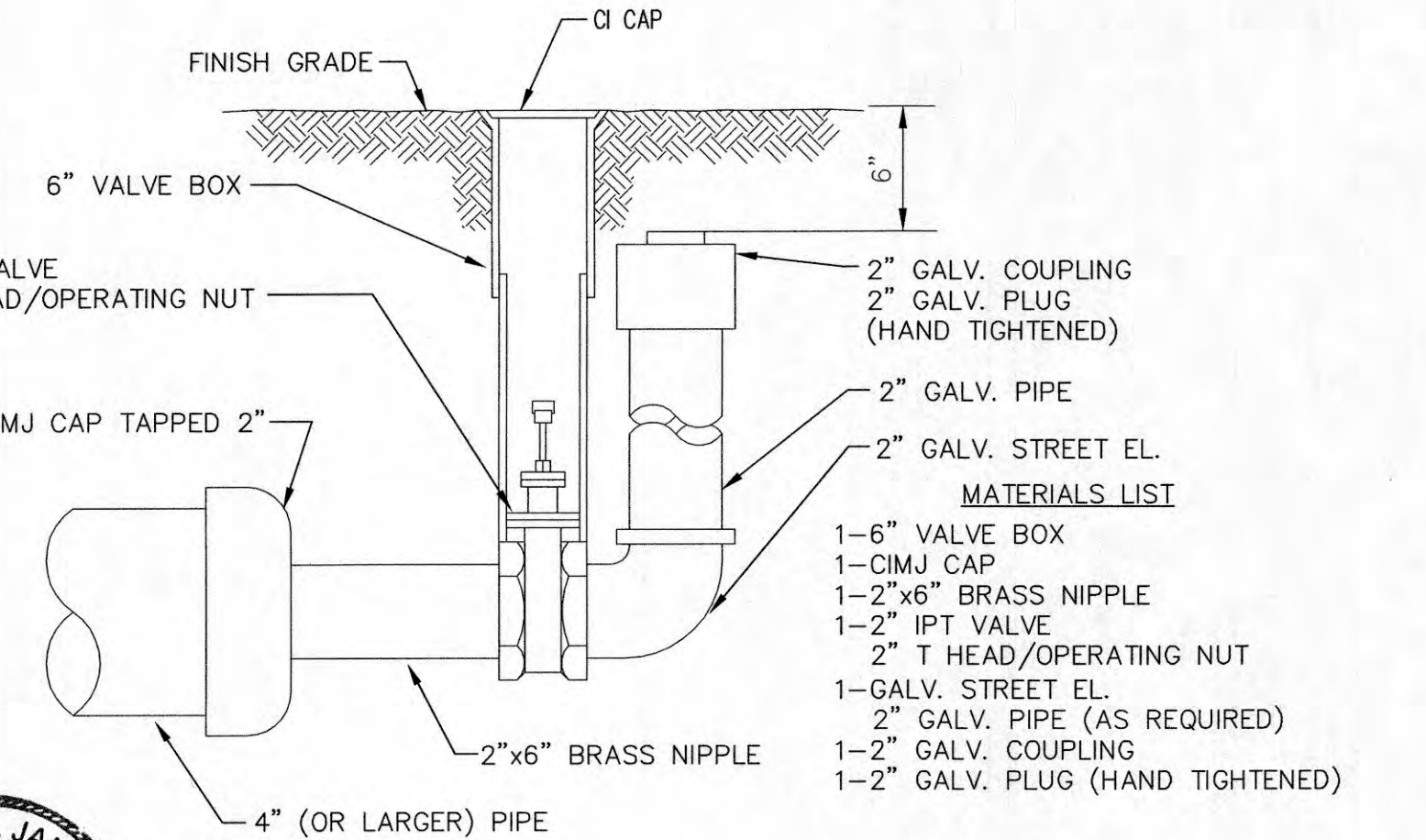
When the City of Wichita makes tap, blocking is to be done by Contractor



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)



VALVE STEM EXTENSION DETAIL
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 5 of 13

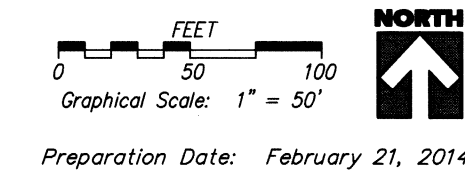
REVISED: OCTOBER 2016

FINAL PLAT

OAKLAWN ELEMENTARY ADDITION

E 1/2, OF THE NW 1/4 OF SEC. 23, TWP. 28 S RANGE 1 E

AN ADDITION TO, SEDGWICK COUNTY, KANSAS



Preparation Date: February 21, 2014

- LEGEND:**
- ⊙ = Iron Pipe Found
 - = 1/2" Rebar Found w/Cap, "LS 1200"
 - ⊗ = 1/2" Rebar Found w/Cap, "Moehring"
 - ⊕ = Set 1/2" Rebar, capped "LS 1200"
 - (M) = Measured
 - (D) = Deeded Measurement
 - (CM) = Calculated from Measurements

BENCHMARK:

BM #1 - City of Wichita Benchmark, located on the northwest corner of concrete base for adopt crossing sign, on the south side of 47th Street S of Clifton Street. (Not shown, outside of survey limits.) Elev=170.52 MHD 88

BM#2 (DM) - Chisled "1" (ft), at the West end of Hubbard on the south side of southern most driveway into Oaklawn Elementary. Elev=170.52 MHD 88

I, the undersigned, a registered land surveyor of the State of Kansas, do hereby certify that the following described tract of land was surveyed on August 21, 2012 and the accompanying final plat prepared and that all the monuments shown herein actually exist and their positions are correctly shown to the best of my knowledge and belief.

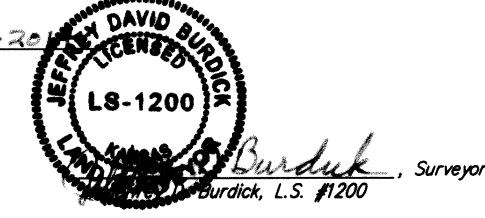
Located in the East Half (E 1/2) of the Northwest Quarter (NW 1/4) of Section 23, Township 28 South, Range 1 East of the 6th P.M., Sedgwick County, Kansas, more particularly described as follows:

Commencing at the Northwest Corner (NW Cor.) of the East Half (E 1/2) of the Northwest Quarter (NW 1/4) of Section 23, Township 28 South, Range 1 East, of the 6th P.M., thence South 00°00'00" West along the West line of said East Half, a distance of 1,234.25 feet; thence South 90°00'00" East a distance of 50.00 feet to the Point of Beginning; thence continuing South 90°00'00" East a distance of 968.13 feet; thence South 137°02'00" East a distance of 550.82 feet; thence North 85°43'10" West a distance of 1,083.63 feet; thence North 00°00'00" West a distance of 530.98 feet to the Point of Beginning.

The plot contains 12.63 acres, more or less.

Existing public easements and dedications, including the drainage easement recorded on Film 480, Page 823 to the Oaklawn Improvement District, sanitary sewer easement recorded on Film 482, Page 374 to the Oaklawn Improvement District, drainage easement recorded on Film 486, Page 884 to the Oaklawn Improvement District and the dedication deed recorded on Doc/Film # 29290219 are hereby vacated and replated by virtue of K.S.A. 12-512b, as amended.

Date: 2-21-2014



This is to certify that the undersigned owner(s) of the land described in the Surveyor's Certificate, have caused the same to be surveyed and subdivided on the accompanying plat into a Lot, a Block and a Reserve under the name of "Oaklawn Elementary Addition" (an addition to Sedgwick County, Kansas); that all easements as denoted on the plot are hereby dedicated to and for the use of the public for the purpose of constructing, operating, maintaining, and repairing public improvements. Access controls as denoted on the plot are hereby dedicated. Reserve "A" is hereby reserved for open spaces, entry monuments, drainage easements, landscaping, berms, irrigation, lighting, signage, drainage purposes, storm sewers, recreation purposes, and utilities confined to easements. Reserve "A" shall be owned and maintained by the property owner(s) of the addition, its successors and assigns. Further the undersigned owner(s) certify that the land contained herein is held and shall be conveyed subject to any applicable restrictions, reservations, and covenants now on file or hereafter filed in the Office of the Register of Deeds of Sedgwick County, Kansas.

A drainage plan has been developed for the subdivision and all drainage easements, rights of way, or reserves shall remain at the established grades and remain unobstructed to allow for the conveyance of stormwater.

Derry Unified School District, No. 260 Board of Education

By: *Andrea Staco*
President of USD 260 Board of Education

Date: 2-21-14

STATE OF KANSAS)
COUNTY OF SEDGWICK)

SS

This instrument was acknowledged before me, this 24th day of February, 2014, by Andrea Staco, President on behalf of USD 260 Board of Education.

Notary Public

My appointment expires: 10-9-2016

This plat of "Oaklawn Elementary Addition" has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission. Dated this 24th day of JANUARY, 2013. Wichita Sedgwick County Metropolitan Area Planning Commission

Don Klumpp, Chair
David Dennis, Chair
Don Klumpp, Mayor
Attest: *John L. Schaefer*, Secretary



This plat approved and all dedications shown herein, if any, accepted by the Board of County Commissioners of Sedgwick County, Kansas. Dated this 9th day of April, 2014.

David M. Urish, Chairman
Attest: *Kelly B. Arnold*, County Clerk

Entered on transfer record this 14th day of April, 2014.

Kelly B. Arnold, County Clerk

Carl Branger, Mayor

Kevin Sublett, City Clerk

Attest: *Kevin Sublett*, City Clerk

Kevin Sublett, City Clerk

Kevin Sublett, City Clerk

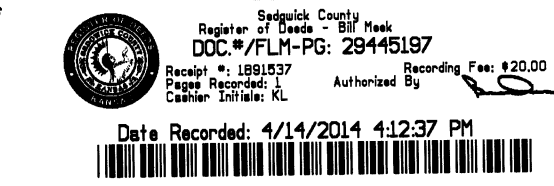
Kevin Sublett, City Clerk

STATE OF KANSAS, SEDGWICK COUNTY

This is to certify that this instrument was filed for record in the Register of Deeds Office, at 4:13 p.m., on the 14th day of April, 2014.

Attest: *Bill Meek*, Register of Deeds

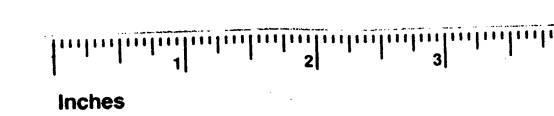
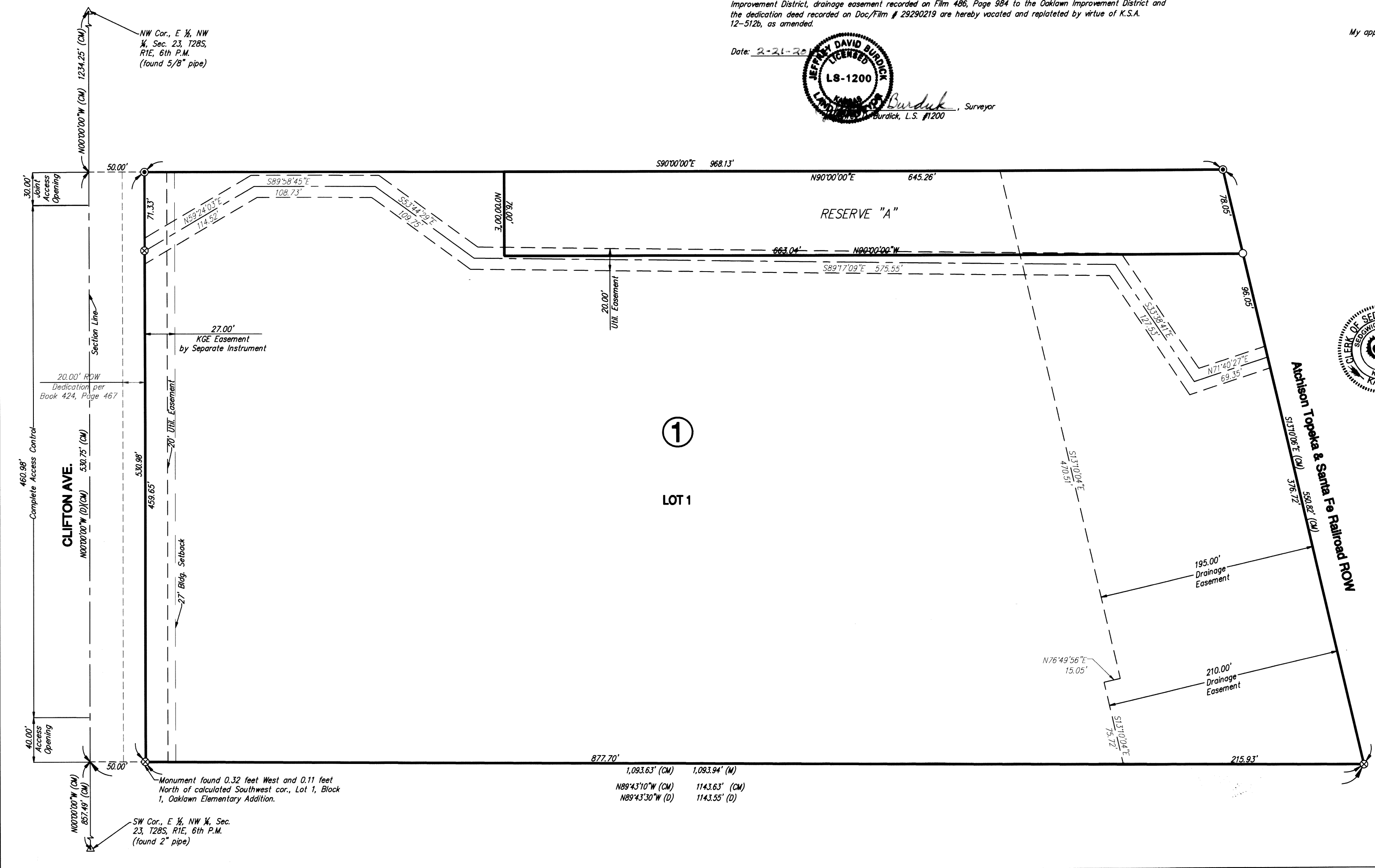
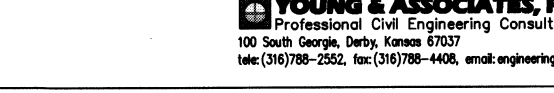
Yonja E. Buckingham, Deputy



STATE OF KANSAS, SEDGWICK COUNTY

Reviewed and approved with K.S.A. 58-2005 on this 22nd day of February 2014.

Tricia L. Boudreau, Deputy County Surveyor



This digital plat record accurately reproduces in all details the original plat filed with the Sedgwick County Register of Deeds. Digitized under the supervision of Register of Deeds Bill Meek by Sedgwick County Geographic Information Systems.

Bill Meek, Register of Deeds
Digitized reproduction of original signature