

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 1-800-246-4864
Black Hills Energy 1-800-694-5939
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 Services 1-888-482-4950
Energy 1-800-544-5857
- 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 Dawnita Reinhardt 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, Mike Armour 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 distribution system from water hammer. All valves closed by the contractor must be reopened as new construction permits. The project inspector must ascertain that any valve closed by the Contractor is reopened. The contractor will be permitted to operate water valves only when the project inspector assigned to the project is present.
- The Contractor shall lay a Tracer Wire and Set Test Stations along all water pipe installed in accordance with City Specifications and Tracer Wire Detail on detail sheet WL-101, cost is subsidiary to pipe installation.
- The contractor shall provide materials for temporary blowoff of waterlines. Connections to the existing waterline(s) shall be made with clean, swabbed pipe and flushed upon completion of tie-ins.
- Requests for short term water interruptions shall be made to the City Water Distribution Division and will be subject to their approval. The Contractor shall give written notice to any property owner, business, and/or tenants that will have water service interrupted at least 5 days in advance. Such notifications should indicate the time and date that the water will be turned off and when the service will be restored. No business, property owner, and/or tenants shall be without water service for more than 8 hours. Proposed tie in locations which will affect water service to property owners shall be performed during non-peak hours.
- The Contractor must schedule the connections to the existing main with the City such that there is a minimum disruption of service. Connections shall be made during periods of low water usage. The Contractor shall submit his proposed schedule for completing work for City approval at least 10 days prior to beginning construction.
- Deflections at pipe joint or couplings shall not exceed the pipe 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 openings overnight and weekends to less than 50 feet.
- Wichita Fire Department inspections may be scheduled by calling 316-268-4574.
- MAINTAIN A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION BETWEEN ALL WATER LINES (MAINS, SERVICES, AND FIRE HYDRANTS) AND ALL SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES). ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE AT THE CLOSEST POINT.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL GRAVITY SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES) AT CROSSINGS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL PRESSURIZED SANITARY SEWER LINES (FORCE MAINS AND SERVICES) AT CROSSINGS. WATERLINES MUST ALWAYS BE PLACED ABOVE PRESSURIZED SANITARY SEWER LINES WHERE THEY CROSS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE AT THE CLOSEST POINT.

GPS AS-BUILT CONTROL POINT
Pt. #503 N=1,690,131.04 E=1,660,448.94 Elev. = 1349.66

AS - BUILT PLANS

WATER DISTRIBUTION SYSTEM

to serve

WESLEY MEDICAL CENTER

PARKING GARAGE

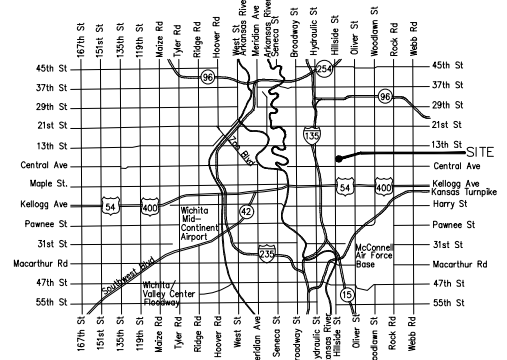
550 N. HILLSIDE AVE.

CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E. City Engineer
Project Number
2024-013708PPW
(ORG 54030980)

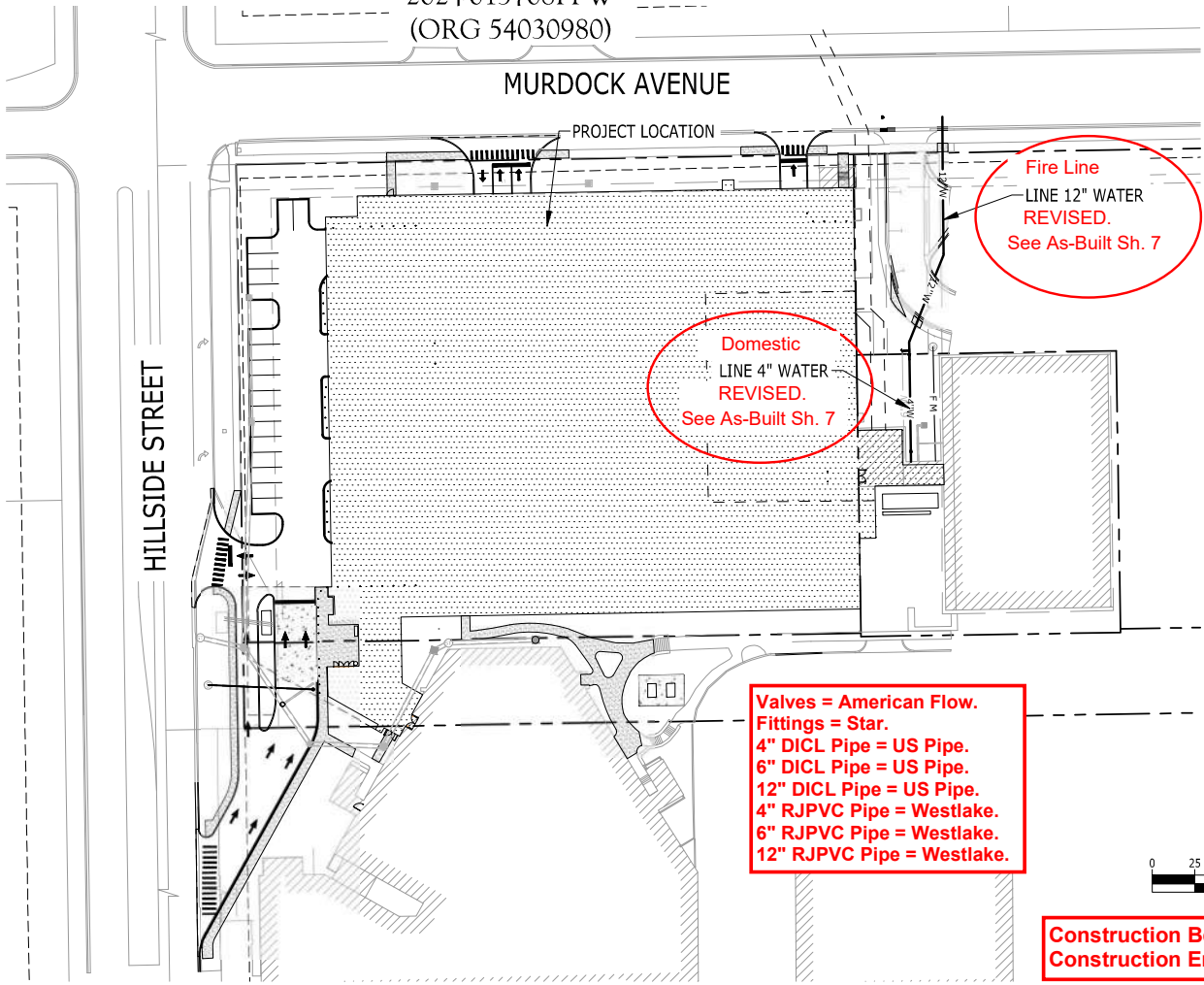
Benchmarks

BM #1:
Center Shot of Sanitary Sewer Manhole Approximately 21.4 feet West and 25.6 feet North of the Southwest Corner of Lot 4, Wesley Medical Center 3rd Addition, Wichita, Kansas.
Elevation=1338.61



Vicinity Map

Utility Contractor = Fremar Corp.
Inspector = Fred Smith - Baughman Company
As-Built Plans = Fred E. Smith & Larry Powell
August 19, 2025



Sheet Number	Sheet Title
C0.1	PPW COVER SHEET
C3.1	EROSION CONTROL PLAN
C3.2	SEDIMENT AND EROSION CONTROL DETAILS
C4.0	DEMOLITION PLAN
C6.0	GRADING, DRAINAGE & UTILITY PLAN
C6.1	WATER LINE PLAN & PROFILE
C7.0	DETAILS
C7.1	DETAILS
SW501	BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE
SW502	SILT FENCE DITCH CHECK AND BARRIER DETAILS
SW503	STRAW BALE DITCH CHECK AND BARRIER DETAILS
SW504	STREET IMPROVEMENT PROJECTS
SW505	SUBDIVISION DEVELOPMENT PROCESS
WL101	STANDARD WATER ASSEMBLY DETAIL
WL102	STANDARD WATER SERVICE DETAIL
WL103	STANDARD VAULT DETAILS AND METER ASSEMBLIES
WL104	MISCELLANEOUS WATER DETAILS

Sheet 7 AS - BUILT PLAN SKETCH

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

Engineering	SHAWN MELLIES	04/07/2025
Utilities	GREG LOLLEY	04/07/2025
Fire Dept.	JOSE OCADIZ	04/07/2025

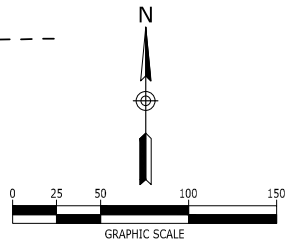
NOTE TO CONTRACTORS

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.

Construction Began = May 2025
Construction End = July 2025



ARCHITECT
BARGE DESIGN SOLUTIONS
615 3RD AVE SOUTH
NASHVILLE, TN 37210
615-254-1500



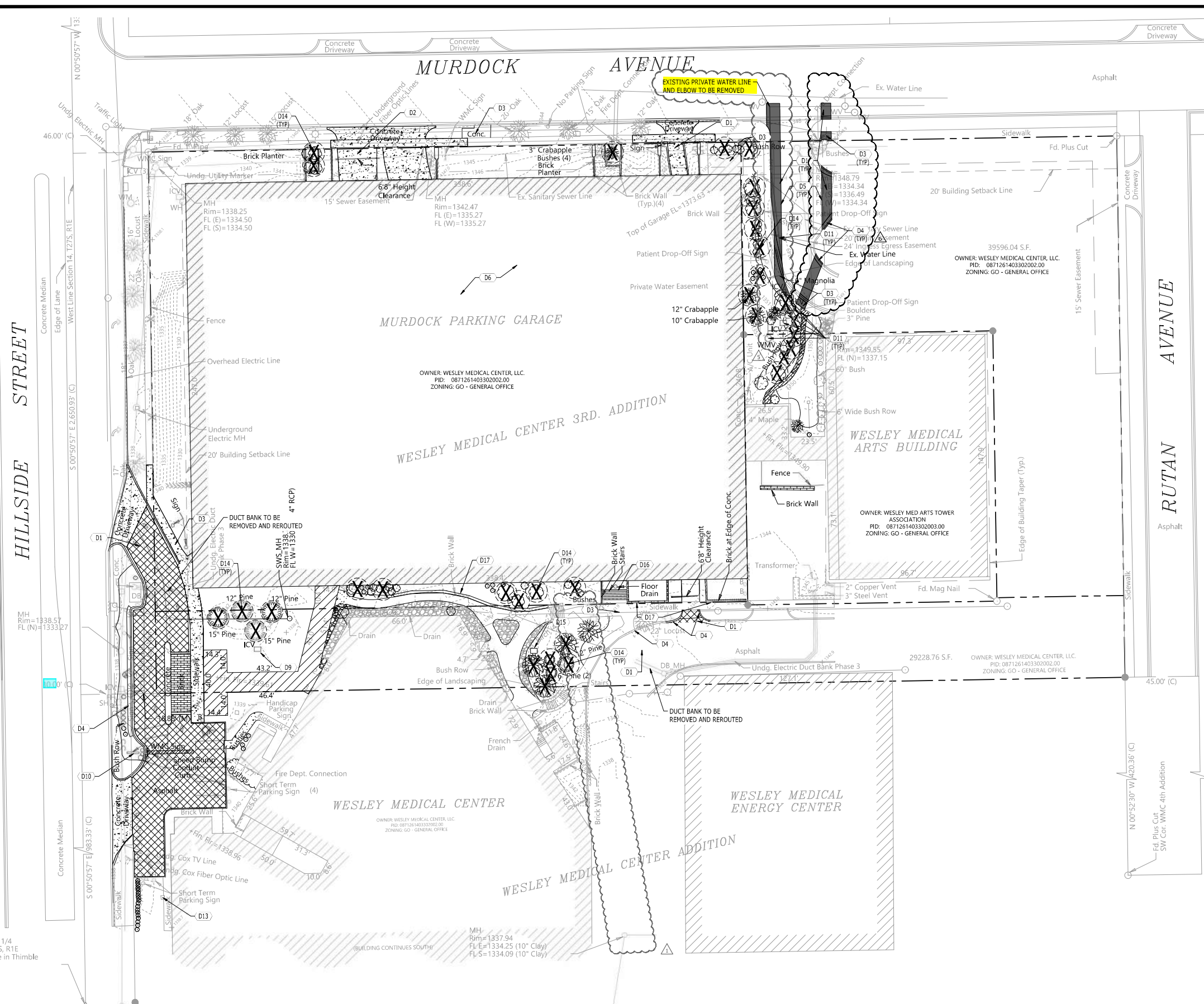
PREPARED FOR
WESLEY MEDICAL CENTER
550 NORTH HILLSIDE STREET
WICHITA, KS 67214
316-962-2960

CIVIL ENGINEER/LANDSCAPE ARCHITECT



Baughman Job Number: 25-05-E103

P:\2023\20230070_gig - wesley med ctr parking garage.dwg\construction\parkinggarage-c\20230070_DEM-HS.dwg-C4.0 DEMOLITION PLAN Mar 16, 2025 gaweeney



DEMOLITION KEYNOTES	
CODE	DESCRIPTION
D1	REMOVE EXISTING ASPHALT PAVEMENT
D2	REMOVE EXISTING CONCRETE PAVEMENT
D3	REMOVE EXISTING CONCRETE SIDEWALK
D4	REMOVE EXISTING CONCRETE CURB
D5	EVENLY SAWCUT
D6	REMOVE EXISTING BUILDING/STRUCTURE
D7	REMOVE EXISTING DRAINAGE STRUCTURE
D8	REMOVE EXISTING STORM LINE
D9	REMOVE EXISTING ICV
D10	EXISTING SIGN TO BE RELOCATED
D11	REMOVE EXISTING UTILITY LINE & APPURTENANCES
D13	EXISTING POLE TO BE RELOCATED
D14	REMOVE EXISTING TREE
D15	RELOCATE ICV
D16	REMOVE EXISTING STAIRS
D17	REMOVE EXISTING BRICK WALL



WESLEY MEDICAL CENTER, INC.
550 N. HILLSIDE ST.
WICHITA, KS 67214

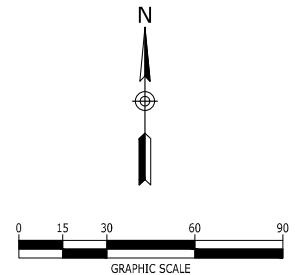


WESLEY MEDICAL CENTER PARKING GARAGE
WICHITA, KANSAS

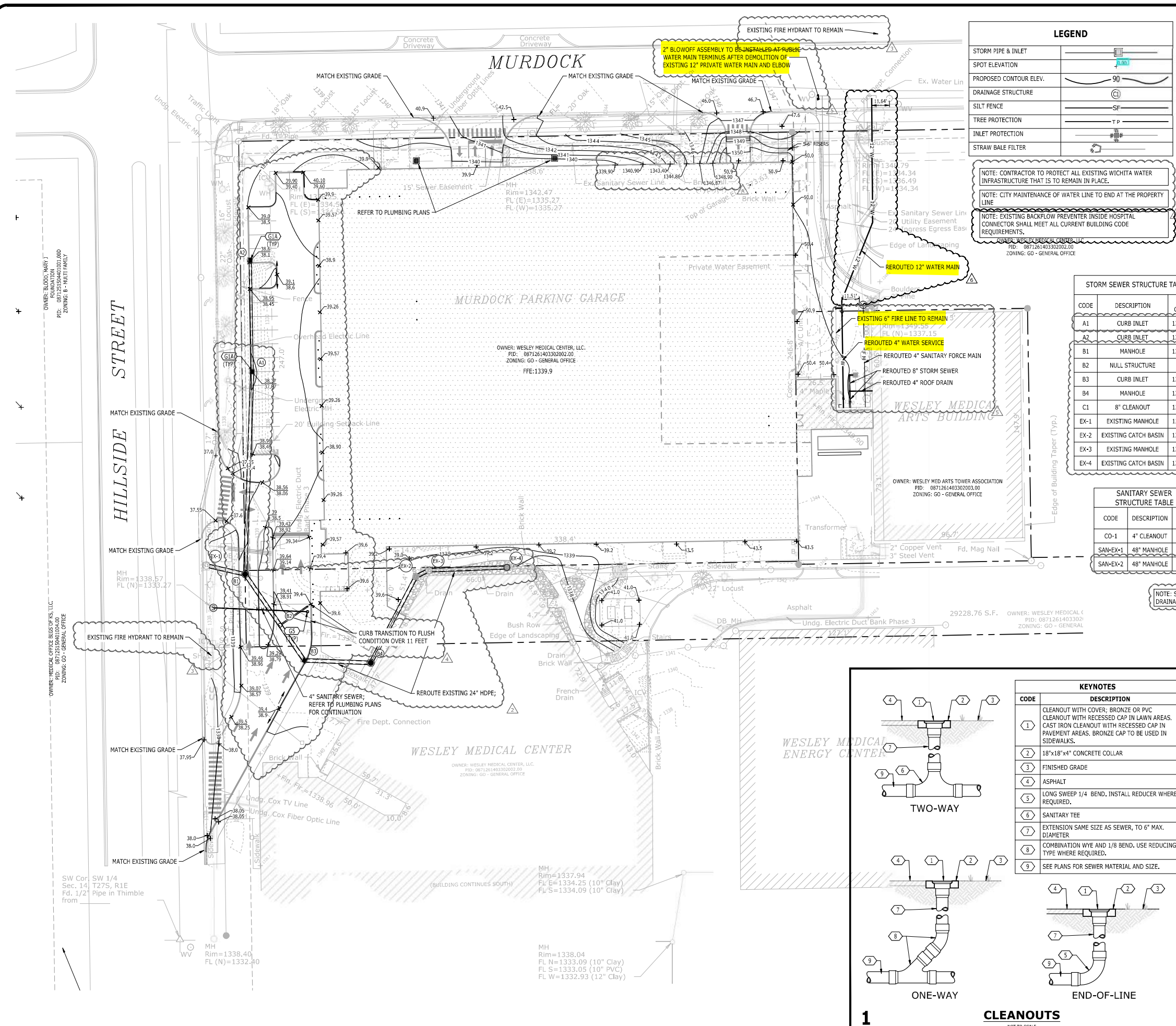
NO.	DATE	DESCRIPTION
▲	03/17/2025	PPW PLAN REVISION
▲	03/03/2025	AMENDMENT A
▲	08/13/2024	PPW PLAN COMMENTS
▲	04/23/2024	PLAN CHANGES FOR PPW SUBMITTAL
▲	03/22/2024	WABC COMMENTS
▲	03/04/2024	ADDENDUM 2
▲	11/17/2023	ADDENDUM 1

DEMOLITION PLAN
PROJECT NUMBER: 20230070
DRAWING NUMBER: **C4.0**

LEGEND	
BUILDING TO BE REMOVED	[Hatched Pattern]
CONCRETE TO REMOVE	[Dotted Pattern]
ASPHALT PAVEMENT TO REMOVE	[Cross-hatched Pattern]
TREES TO BE REMOVED	(X)



P:\2023\20230070_jg - wesley med ctr parking garage.dwg construction\baringgarage-c6.0 GRADING & UTILITIES PLAN Mar 16, 2025 sweeney



LEGEND

STORM PIPE & INLET	
SPOT ELEVATION	
PROPOSED CONTOUR ELEV.	
DRAINAGE STRUCTURE	
SILT FENCE	
TREE PROTECTION	
INLET PROTECTION	
STRAW BALE FILTER	

NOTE: CONTRACTOR TO PROTECT ALL EXISTING WICHITA WATER INFRASTRUCTURE THAT IS TO REMAIN IN PLACE.

NOTE: CITY MAINTENANCE OF WATER LINE TO END AT THE PROPERTY LINE.

NOTE: EXISTING BACKFLOW PREVENTER INSIDE HOSPITAL CONNECTOR SHALL MEET ALL CURRENT BUILDING CODE REQUIREMENTS.

GRADING & DRAINAGE KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
G1A	SINGLE CURB INLET	10/C7.0
G1B	DOUBLE CURB INLET	
G2A	CATCH BASIN	7/C7.0
G2B	DOUBLE CATCH BASIN	
G3	SANITARY SEWER MANHOLE	11/C7.0
G4	NDS DRAIN INLET	
G5	CLEANOUT	1/C6.0
G6	RIPRAP AT HEADWALL	
G10	RAIN GARDEN	
G11	BUILDING DOWNSPOUT CONNECTION	
G17	TRENCH DRAIN	
G18	CONCRETE FLUME	
G19	SIDEWALK DRAIN	
G17	TRANSITION FROM FLUSH CONDITION TO 6\"/>	

STORM SEWER STRUCTURE TABLE

CODE	DESCRIPTION	TOP GRATE
A1	CURB INLET	1337.87
A2	CURB INLET	1338.10
B1	MANHOLE	1339.00
B2	NULL STRUCTURE	N/A
B3	CURB INLET	1338.50
B4	MANHOLE	1338.90
C1	8\"/>	

STORM SEWER PIPE TABLE

FROM CODE	FROM INV.	TO CODE	TO INV.	GRADE (%)	SIZE (INCHES)	LENGTH (L.F.)	TYPE
A1	1331.25	B1	1330.09	0.88%	14\"/>		

SANITARY SEWER STRUCTURE TABLE

CODE	DESCRIPTION	TOP GRATE
CO-1	4\"/>	

SANITARY SEWER PIPE TABLE

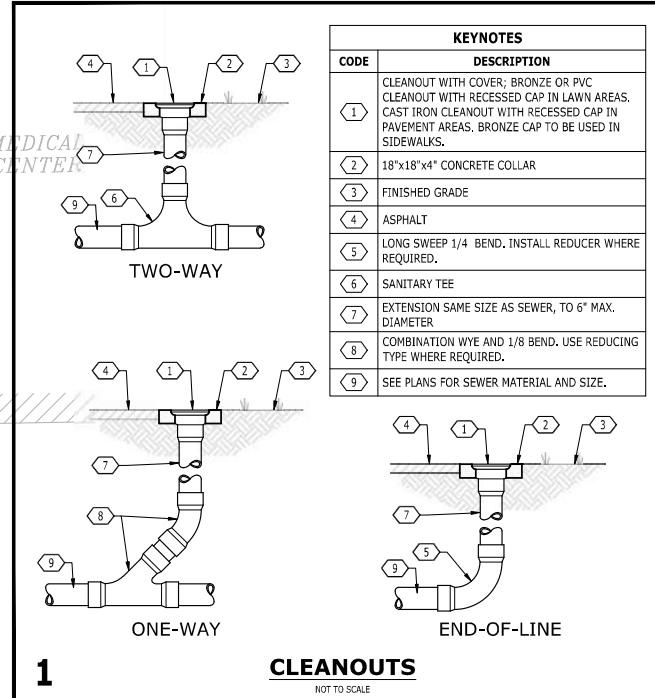
NAME	MATERIAL	DIA.	APPROX. LENGTH	SLOPE	CAPACITY
PIPE SAN-EX-1	PVC	4\"/>			

NOTE: SITE GRADING WILL NOT CAUSE ADDITIONAL ADVERSE DRAINAGE IMPACTS ONTO NEIGHBORING PROPERTIES

Stormwater Certification:
 New Development or Redevelopment
 Stormwater Permit # SW02024-0010
 NOI Permit # S-LA20-0099 / KSR122125

These construction plans were prepared in accordance with the current Stormwater management Regulations as set forth in the City of Wichita's Stormwater Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgwick County Stormwater Manual.

Site Area (Acres) = 3.02
 Disturbed Area (Acres) = 3.02
 Water Quality Treatment: OBMP Permit
 Downstream Channel Protection: N/A
 Detention: N/A, Less than 1 acre of impervious is being added.
 The BMP used for this development is Offsite BMP Program



811
 Know what's below.
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N

0 15 30 60 90
 GRAPHIC SCALE

Catalyst
 DESIGN GROUP

WESLEY MEDICAL CENTER, INC.
 550 N. HILLSIDE ST.
 WICHITA, KS 67214

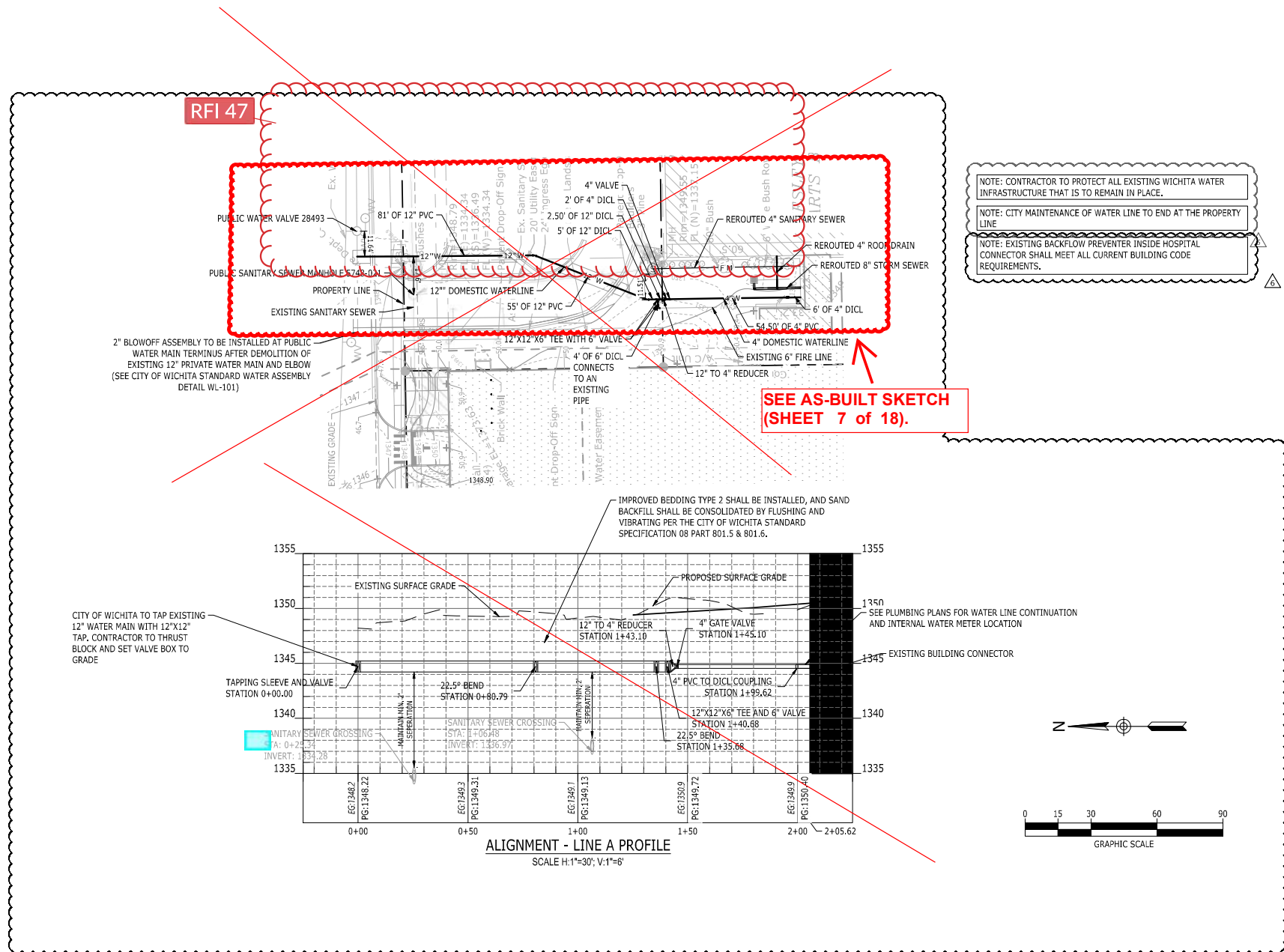
WESLEY MEDICAL CENTER
 PARKING GARAGE
 WICHITA, KANSAS

NO.	DATE	DESCRIPTION
1	03/17/2025	PPW PLAN REVISION
2	03/03/2025	AMENDMENT A
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5	03/22/2024	MABCD COMMENTS
6	03/04/2024	ADDENDUM 1
7	11/17/2023	ADDENDUM 2

PROJECT NUMBER: 20230070
 DRAWING NUMBER: C6.0

SHEET 5 OF 18

P:\2023\20230070_00 - wesley_med_ctr_parking_garage.dwg\construction\parkinggarage-c\20230070_CGRA-PG.dwg-WATER LINE PLAN & PROFILES Apr 08, 2025_jpark



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1524 WILLYE DR., SUITE 202, MANASSAS, VA 20108
(703) 755-2020 | WWW.CATALYSTDESIGN.COM

WESLEY MEDICAL CENTER, INC.
550 N. HILLSIDE ST.
WICHITA, KS 67214



WESLEY MEDICAL CENTER
PARKING GARAGE
WICHITA, KANSAS

NO.	DATE	DESCRIPTION
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△	03/22/2024	M/ABCD COMMENTS
△	03/04/2024	ADDENDUM 2
△	11/17/2023	ADDENDUM 1

WATER PLAN & PROFILES

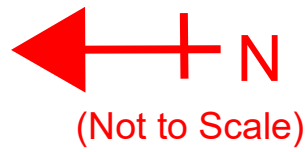
PROJECT NUMBER
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DRAWING NUMBER

C6.2

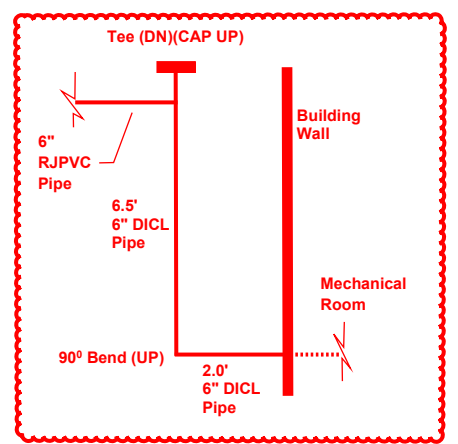
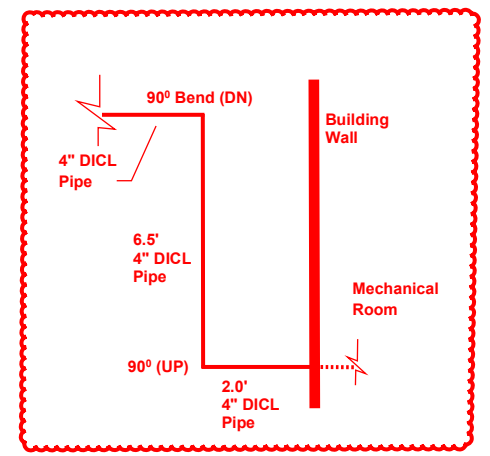
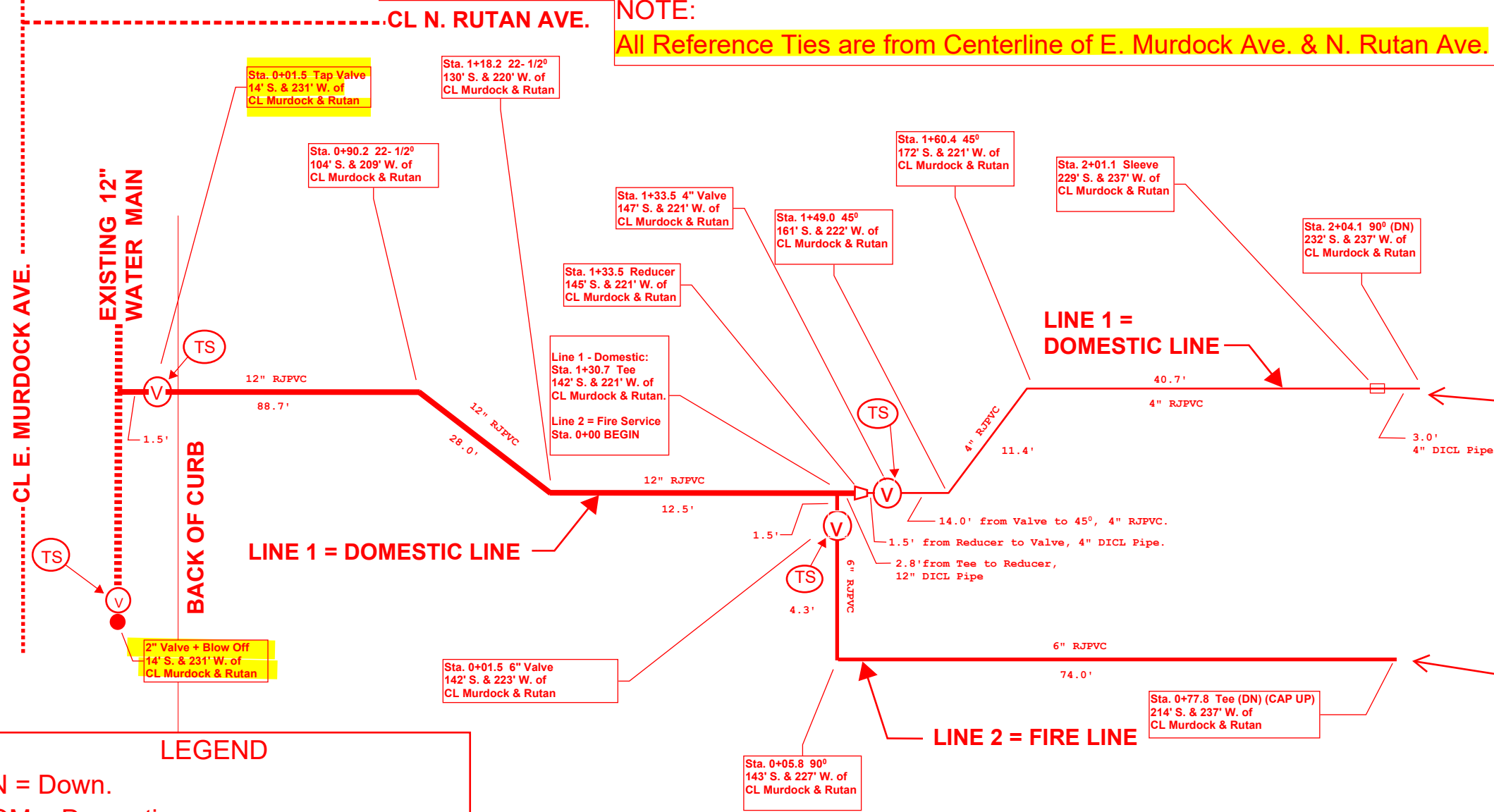
SHEET 6 OF 18

WESLEY MEDICAL CENTER PARKING GARAGE AS - BUILT SKETCH



WATER LINE FITTING COORDINATES					
LINE	STA.	ITEM	NORTHING	EASTING	ELEV.
Dom	+1.50	Valve	1,690,075.99	1,660,460.00	1348.26
	+90.20	22.5	1,689,987.45	1,660,454.27	1345.54
	1+18.20	22.5	1,689,961.26	1,660,444.34	1345.21
	1+30.70	TEE	1,689,948.80	1,660,443.32	1345.14
	1+33.50	REDUCER	1,689,945.97	1,660,443.26	1344.98
	1+35.00	VALVE	1,689,944.49	1,660,443.05	1349.69
	1+49.00	45	1,689,930.44	1,660,442.62	1345.16
	1+60.40	45	1,689,919.17	1,660,444.59	1344.86
	2+01.10	SLEEVE	1,689,859.13	1,660,429.12	1344.68
	2+04.10	90 (DN)	1,689,859.19	1,660,428.62	1345.62
	2+04.10	90 (UP)	1,689,859.19	1,660,428.62	1339.12
Fire	+1.50	VALVE	1,689,948.54	1,660,441.82	1349.68
	+5.80	90	1,689,947.90	1,660,437.56	1344.92
	+77.80	TEE	1,689,876.07	1,660,419.78	1344.10
	+77.80	90 (UP)	1,689,876.07	1,660,419.78	1337.60
Main		BLOWOFF	1,690,076.36	1,660,430.70	1347.29
VALVE ELEV. = TOP OF BOX					

NOTE:
All Reference Ties are from Centerline of E. Murdock Ave. & N. Rutan Ave.



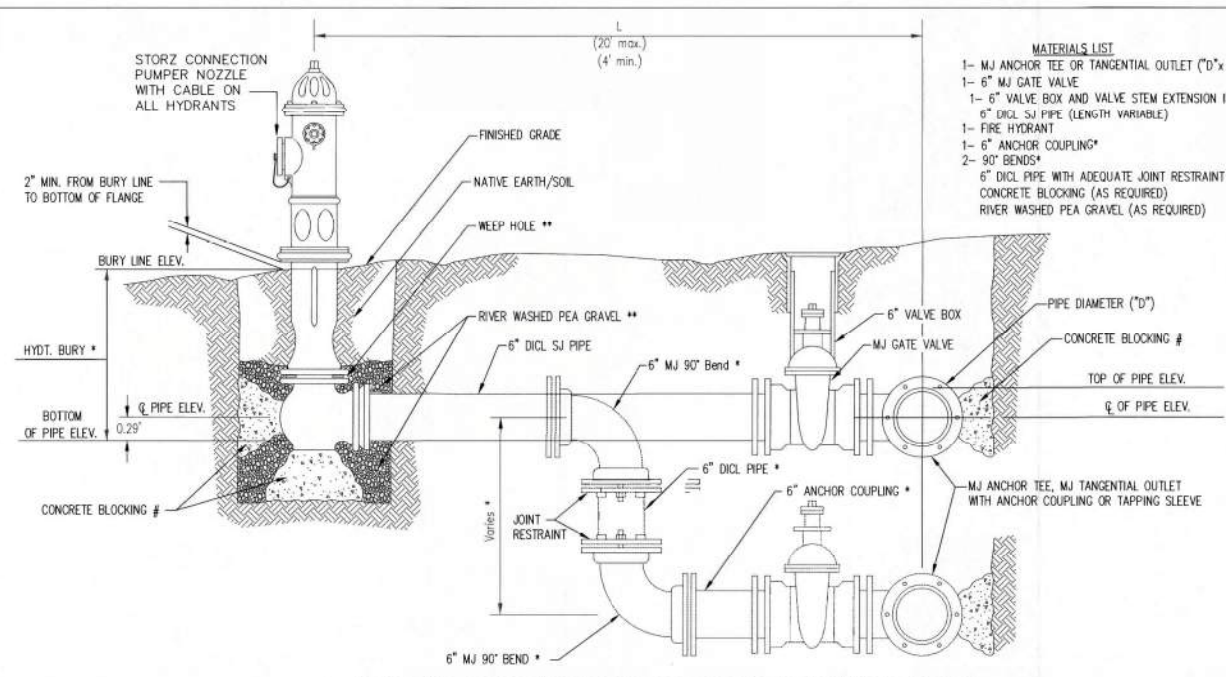
LEGEND

DN = Down.
 DOM = Domestic.
 RJPVC = Restrained Joint PVC Pipe.
 (V) = Valve.
 (TS) = Test Station.
 CL = Centerline.

ALL PIPE RESTRAINED. ALL FITTINGS MEGA-LUGGED.

CONTROL POINT
 Pt. #503 N=1,690,131.04 E=1,660,448.94 Elev. = 1349.66

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



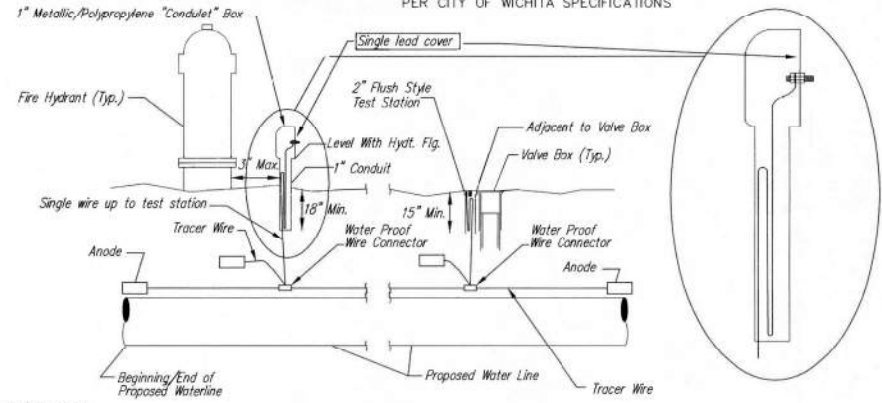
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET ("D" x 6")
 - 1- 6" MJ GATE VALVE
 - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
 - 6" DI CL SJ PIPE (LENGTH VARIABLE)
 - 1- FIRE HYDRANT
 - 1- 6" ANCHOR COUPLING*
 - 2- 90° BENDS*
 - 6" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT *
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

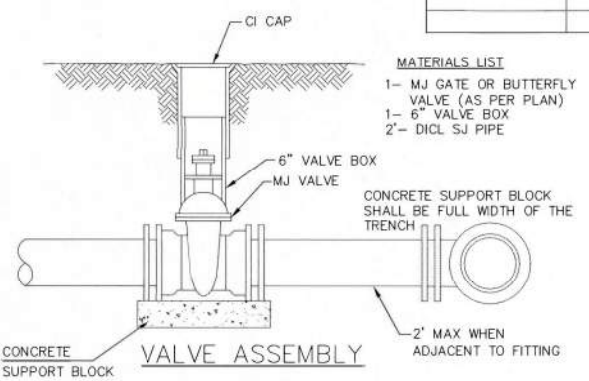
ANODES
The anodes shall be 3 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to 12 AWG CCS which shall be extended to the test station.

TRACER WIRE DETAIL
COST IS SUBSIDIARY TO PIPE INSTALLATION

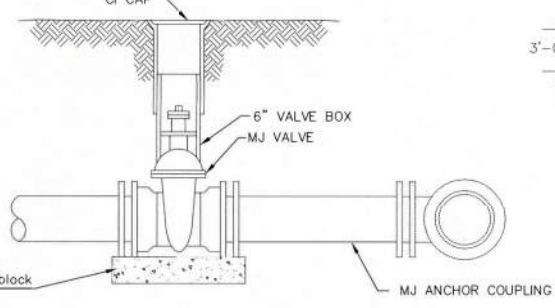
FIRE HYDRANTS REQUIRED

STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*

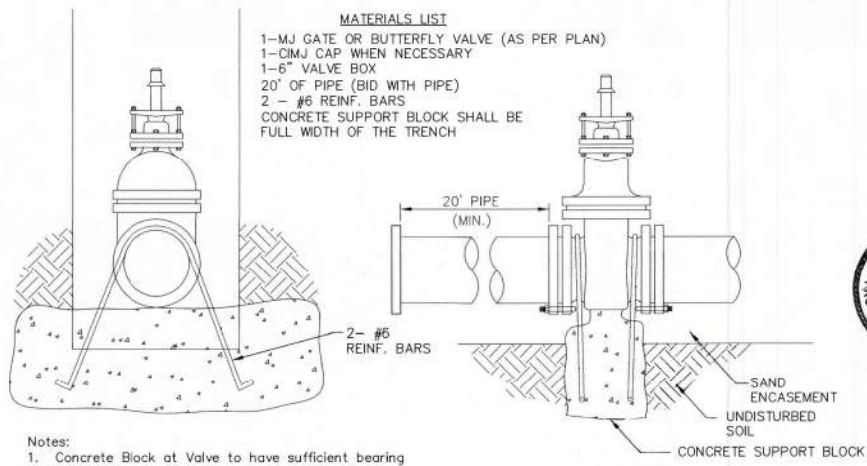
NO FIRE HYDRANT INSTALLED.



- 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

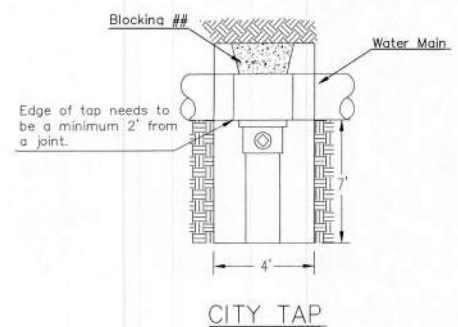


- Notes:**
- Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
 - The thrust block shall be constructed such that bolts, nuts, and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

THRUST AT VALVES

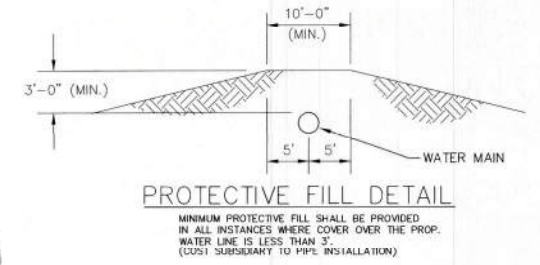
VALVE	THRUST AT 150 #/sq
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

ANCHORED VALVE ASSEMBLY, SPECIAL

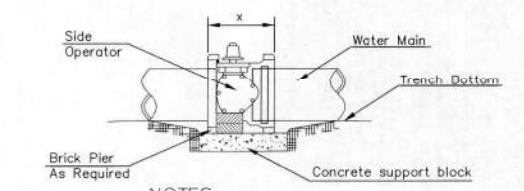


CITY TAP

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



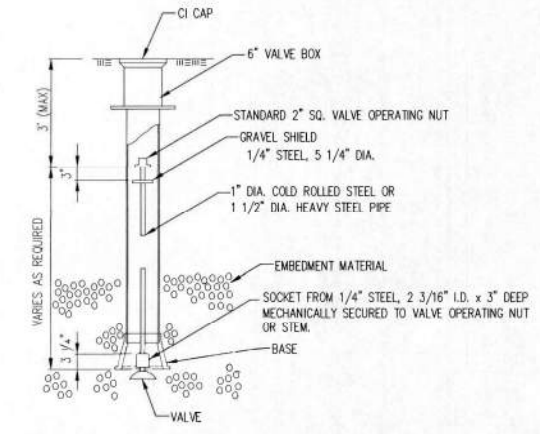
PROTECTIVE FILL DETAIL



NOTES

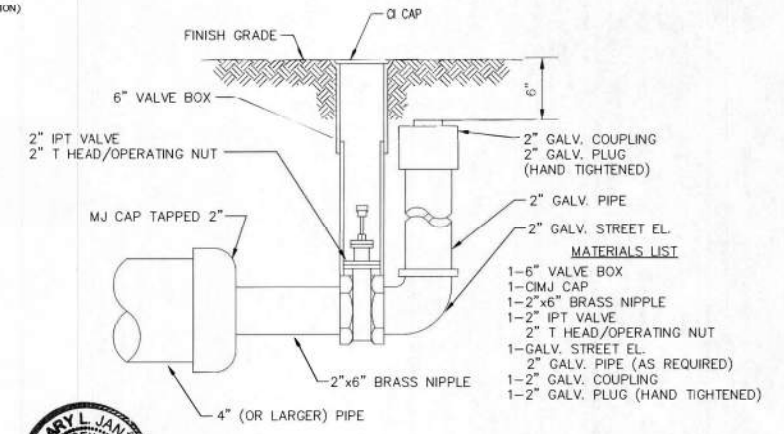
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
- 6" Valve Box and Cover required per City of Wichita Std. Specifications.
- Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



VALVE STEM EXTENSION DETAIL

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



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
C8.5

REVISED: OCTOBER 2016