1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY

REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

2. 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:**

1-800-694-8989 BLACK HILLS ENERGY CITY OF WICHITA WATER & SEWER 1-316-219-8921 1-316-268-4090 CITY OF WICHITA STORMWATER CITY OF WICHITA TRAFFIC 1-316-268-4034 COX COMMUNICATIONS 1-888-249-3530 KANSAS GAS SERVICE 1-888-482-4950

CONSTRUCTION.

3. 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

4. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND 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

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.

6. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRÚCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START

7. 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.

8. 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

9. THE CONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND DAWNITA REINHARDT AT 316-650-0740 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

10. 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. 11. ALL ELEVATIONS SHOWN ARE NAVD 88.

VA FORM 08-6231

12. ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH

13. 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.

14. 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

15. CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY OR EASEMENT LINE OR WITHIN TWO FEET OF VAULT.

16. 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.

17. 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.

18. 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.

19. 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 TII IN LOCATIONS WHICH WILL AFFECT WATER SERVICE TO PROPERTY OWNERS SHALL BE PREFORMED DURING NON-PEAK HOURS.

20. 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.

21. 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.

22. ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.

23. VALVES 300mm AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION, 48 HOURS ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316-291-8921.

24. 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.

25. 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

26. CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.

27. WICHITA FIRE DEPARTMENT INSPECTIONS MAY BE SCHEDULED BY CALLING 316-650-0740.

28. ALL APPROVED EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE STOCKPILED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER. STOCKPILE LOCATIONS SHALL BE AS DIRECTED BY THE OWNER AND IN ACCORDANCE WITH GENERAL NOTE NO. 4

29. ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS/SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCH, AND/OR RESEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR6.5 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION.

30. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF OTHER SEEDING IS REQUIRED IN ACCORDANCE WITH GENERAL NOTE NO. 31 ABOVE. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.

31. EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE

32. THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED. THE GENERAL LOCATION OF THE REQUIRED EROSION CONTROL IS ILLUSTRATED ON THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL SHOWN THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE BMP'S DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.

33. 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.

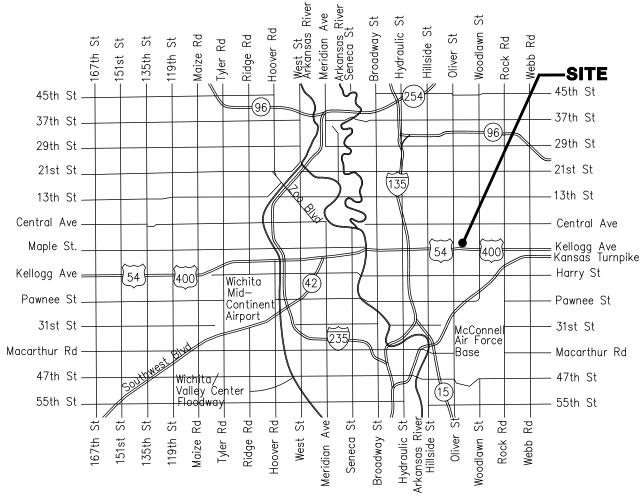
34. MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL GRAVITY SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES) AT CROSSINGS, ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.

35. 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.

WATER DISTRIBUTION SYSTEM to serve

ROBERT J. DOLE VA MEDICAL CENTER BUILDING 13 NEW BOILERS, CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer Project Number 2020-652 PPD (XXXXXX)



SHEET INDEX

CU220 - PPW TITLE SHEET CU221.01 - WATERLINE KEY MAP, PHASE CU222.01 - WATERLINE PLAN & PROFILE, LINE 1, PHASE 1 CU223.01 - WATERLINE PLAN & PROFILE, LINE 2, PHASE 1 CU224 - STANDARD WATER ASSEMBLY DETAILS CU225 - MISC. WATER DETAILS CU226 - MISC. WATERLINE DETAILS 2

SHEET NO. 6-10 CG501 - CG505 EROSION CONTROL BMP DETAILS



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

NOTE TO CONTRACTORS

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 of Wichita Specifications and Standards and Special Provision (on file and available in the City Engineer's Office) or on the City's Website. Private Property: Installation and testing for the fire protection line is to be

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

An approved copy of these plans signed by City staff are

SEPTEMBER 2021

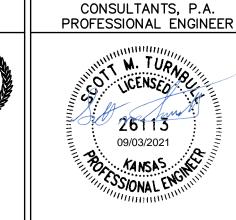
PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY WHATSOEVER WITHOUT THE SEAL AND SIGNATURE PROFESSIONAL ENGINEER.		CONSULTANTS		E
		HAZARDOUS MATERIALS	FIRE SUPPRESSION	
		MABBETT & ASSOCIATES, INC.	KOFFEL ASSOCIATES	i l
		105 CENTRAL STREET, STONEHAM, MA 02180	8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045	i l
		PHONE: (781)275-6050	PHONE: (410)750-2246	i l
		CIVIL / STRUCTURAL	ELECTRONIC SECURITY	ہے ان
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A.	MAGNA ENGINEERS	ıl [—]
		303 SOUTH TOPEKA, WICHITA, KS 67202	861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503	il –
		PHONE: (316)262-2691	PHONE: (859)309-2990	il
		ARCHITECTURAL	PHYSICAL SECURITY	il
		OCULUS INC.	FORCE PROTECT	i l
		1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102	3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786	i l
NO. DESCRIPTION	DATE	PHONE: (314)367-6100	PHONE: (502)836-4232	il –

ENGINEER OF RECORD Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034

PHONE: (856)429-4000

MR PROJECT NO: 0499-0121

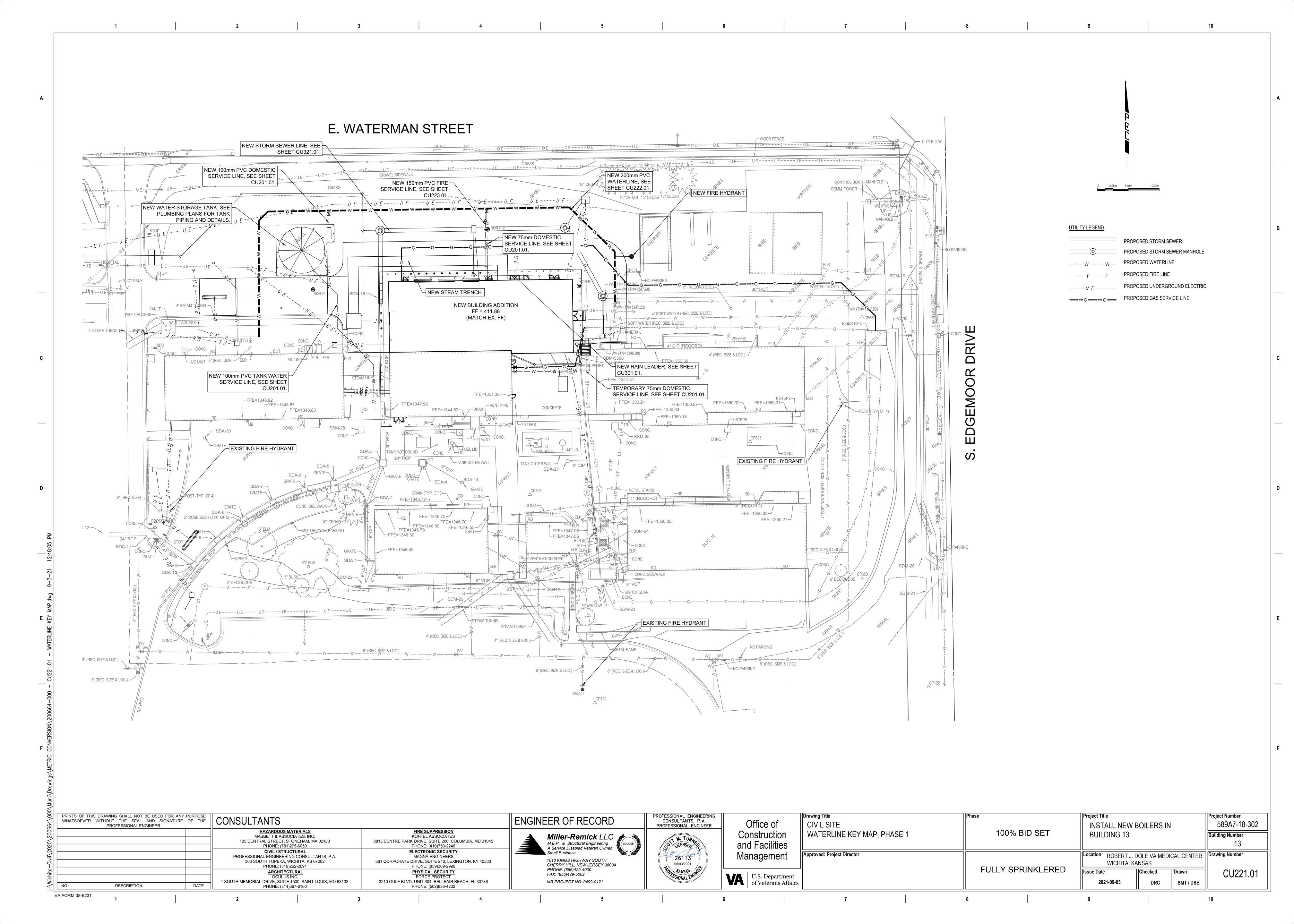
FAX: (856)429-5002

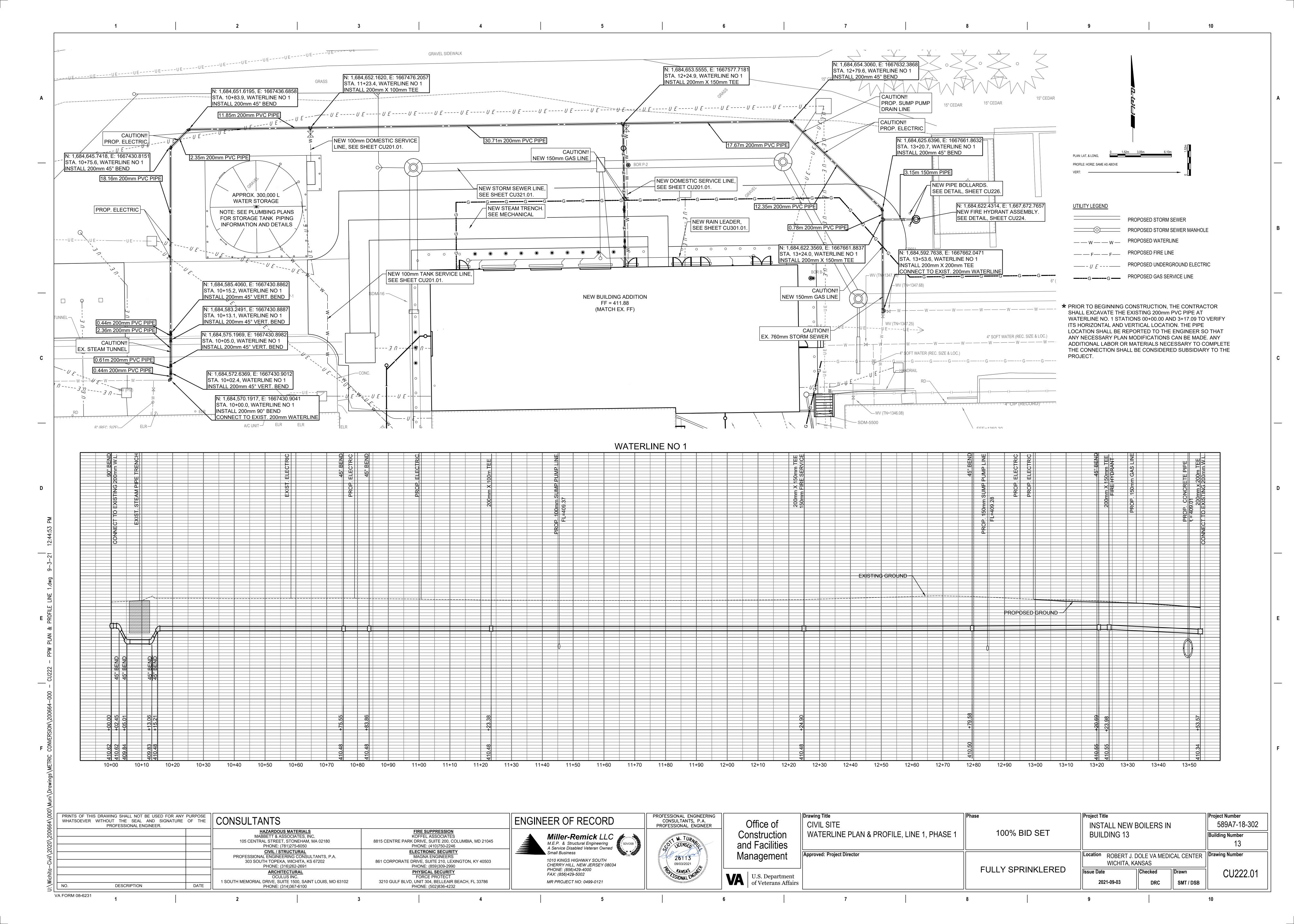


PROFESSIONAL ENGINEERING



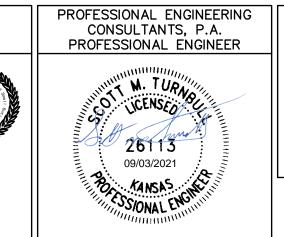
	CIVIL SITE PPW TITLE SHEET	Phase 100% BID SET	Project Title INSTALL NEW E BUILDING 13	BOILERS IN	J	Project Number 589A7-18-302 Building Number 13
·s	Approved: Project Director	FULLY SPRINKLERED	Location ROBERT J. D. WICHITA, KA		Drawn SMT / DSB	Drawing Number CU220







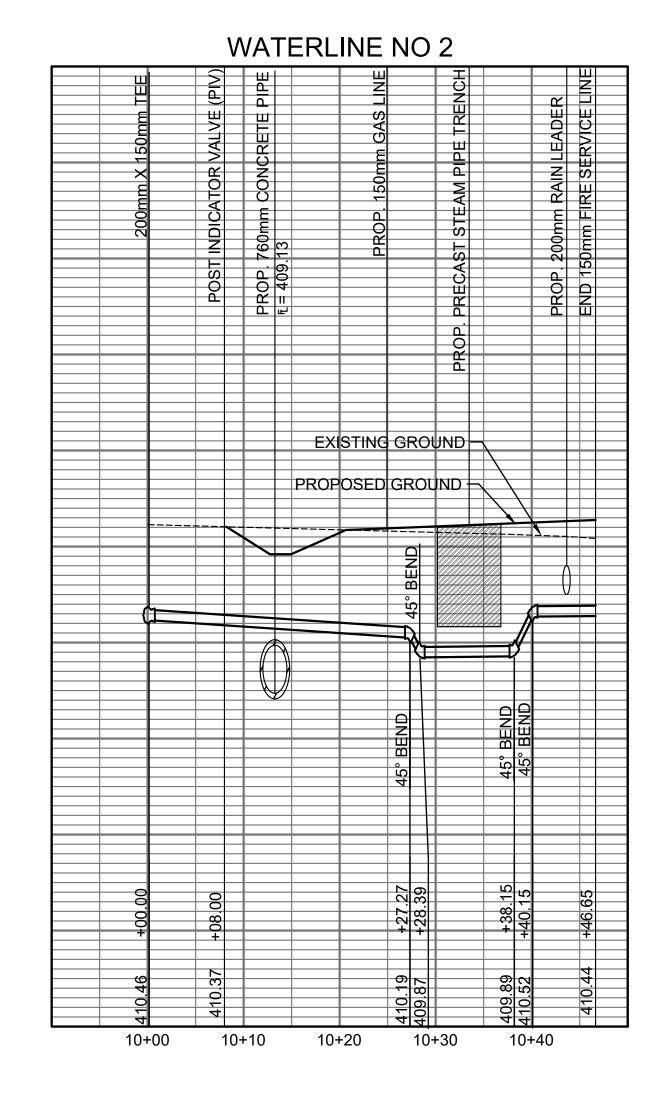


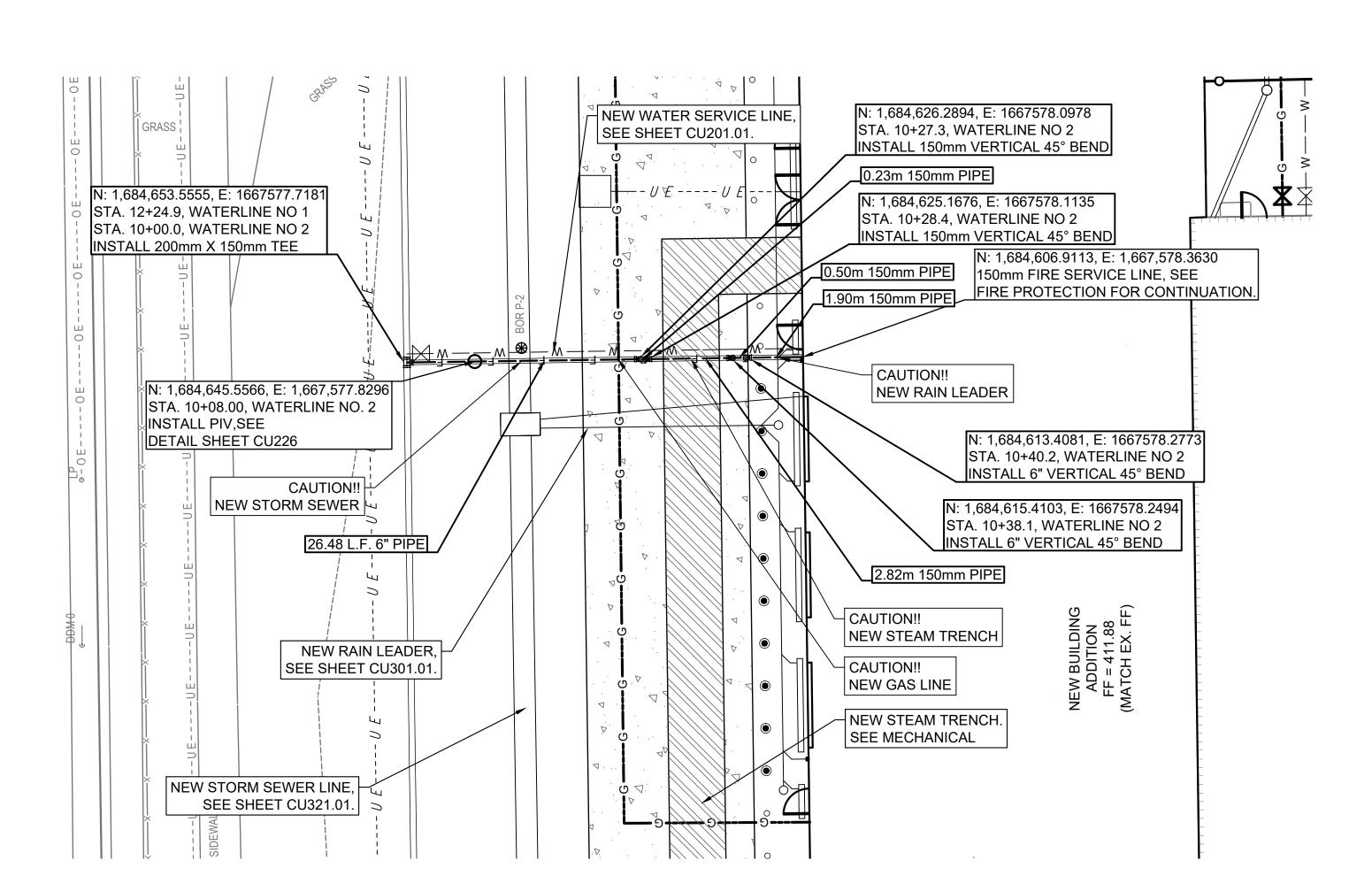


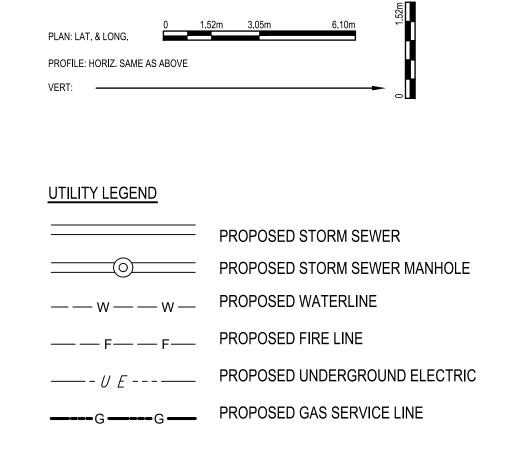
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	VA	U.S. Department of Veterans Affair

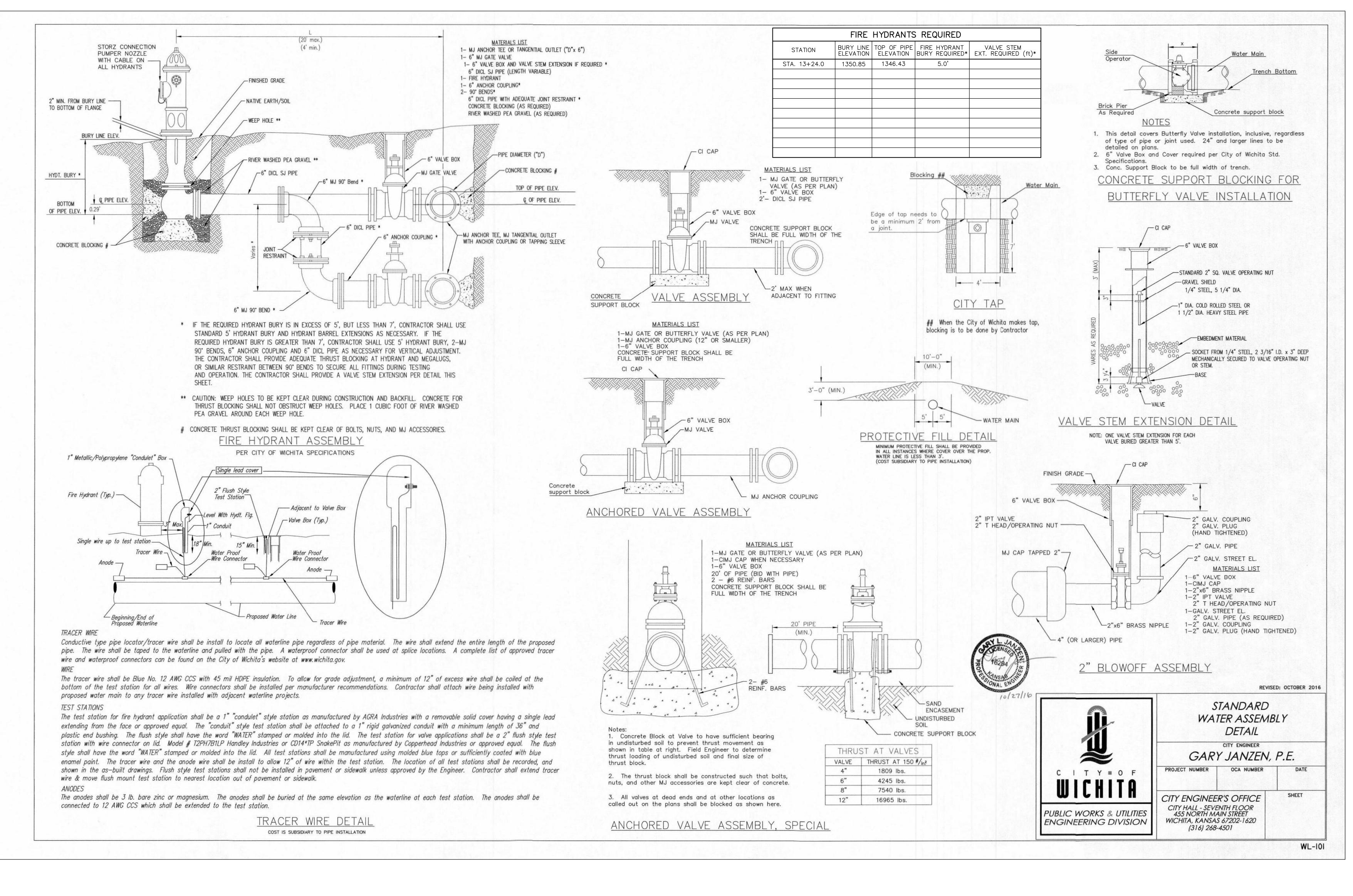
) S	CIVIL SITE WATERLINE PLAN & PROFILE, LINE 2, PHASE 1	100% BID SET	INSTALL NEW E BUILDING 13	BOILERS IN		589A7-18-302 Building Number 13
t	Approved: Project Director		Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS			Drawing Number
ent ffairs		FULLY SPRINKLERED	Issue Date 2021-09-03	Checked DRC	Drawn SMT / DSB	CU223.01

CIVIL SITE WATERLINE PLAN & PROFILE, LINE 2, PHASE 1	Phase 100% BID SET	Project Title INSTALL NEW BOILERS IN BUILDING 13			Project Number 589A7-18-302 Building Number 13
Approved: Project Director		WICHITA, KA		Drawn	Drawing Number CU223.01

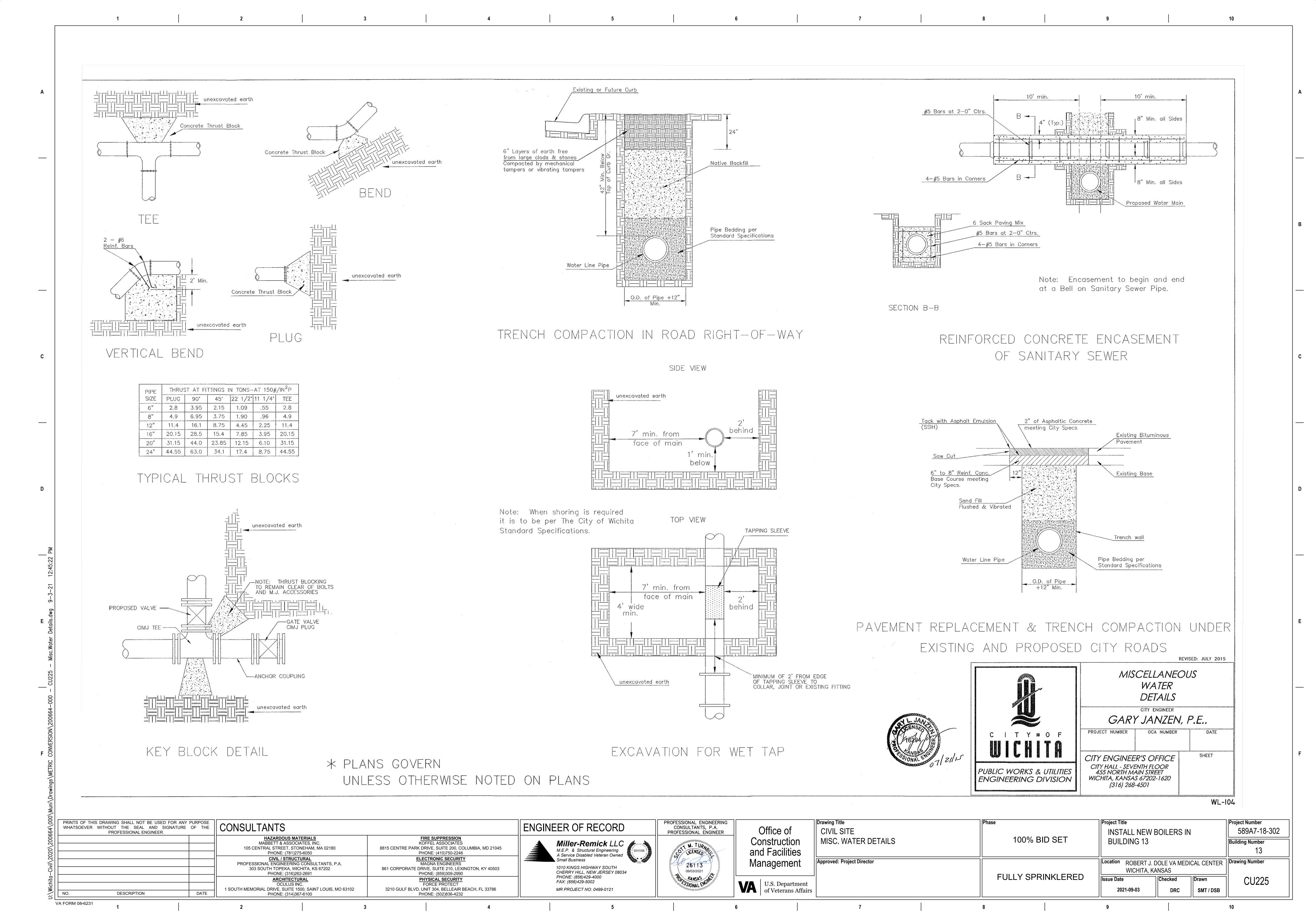


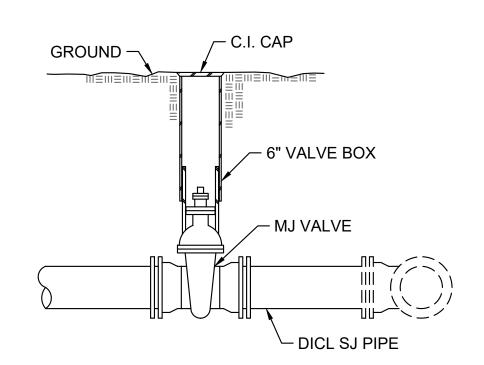






- / I	DRAWING SHALL NOT BE USED FOR ANY PURPOSE ITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.			ENGINEER OF RECORD	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. PROFESSIONAL ENGINEER	Office of	Drawing Title CIVIL SITE	Phase	Project Title INSTALL NEW BOILERS IN	Project Number 589A7-18-302
020\2006		HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6050	FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)750-2246	Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned	M. TURANIA	Construction and Facilities	STANDARD WATER ASSEMBLY DETAILS	100% BID SET	BUILDING 13	Building Number 13
1-Civil\2		CIVIL / STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2691	ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)309-2990	Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 BHONE: (856)430, 4000	26113 09/03/2021	Management	Approved: Project Director	FULLY SPRINKLERED	Location ROBERT J. DOLE VA MEDICA WICHITA, KANSAS	
NO.	DESCRIPTION DATE	ARCHITECTURAL OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	PHYSICAL SECURITY FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (502)836-4232	PHONE: (856)429-4000 FAX: (856)429-5002 MR PROJECT NO: 0499-0121	KANSAS KA	U.S. Department of Veterans Affair	t irs	FULLY SPRINKLERED		SMT / DSB CU224
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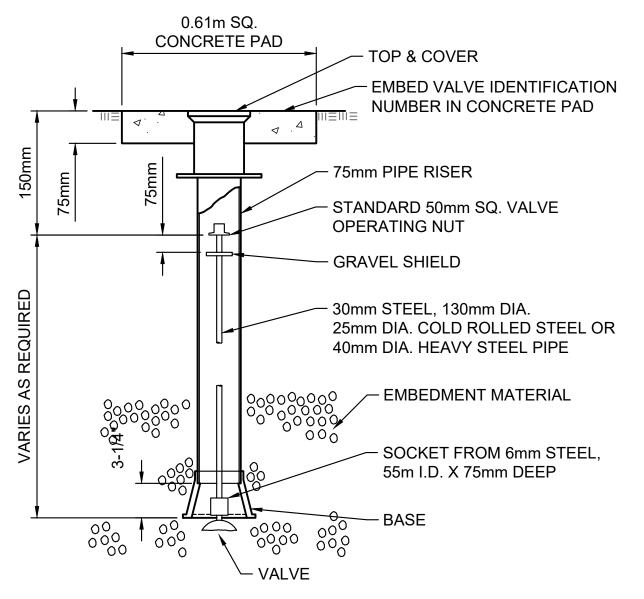


VALVE ASSEMBLY NOTES

MATERIAL LIST
 1 - MJ GATE VALVE

2 LF - DICL SJ PIPE 1 -150mm VALVE BOX

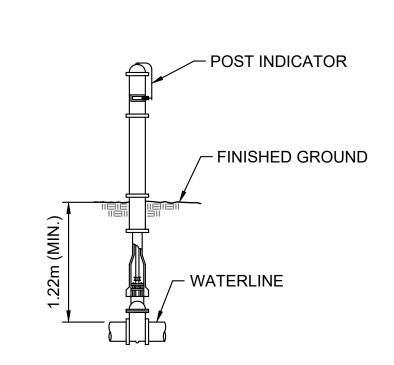
VALVE ASSEMBLY DETAIL NOT TO SCALE



VALVE BOX NOTES

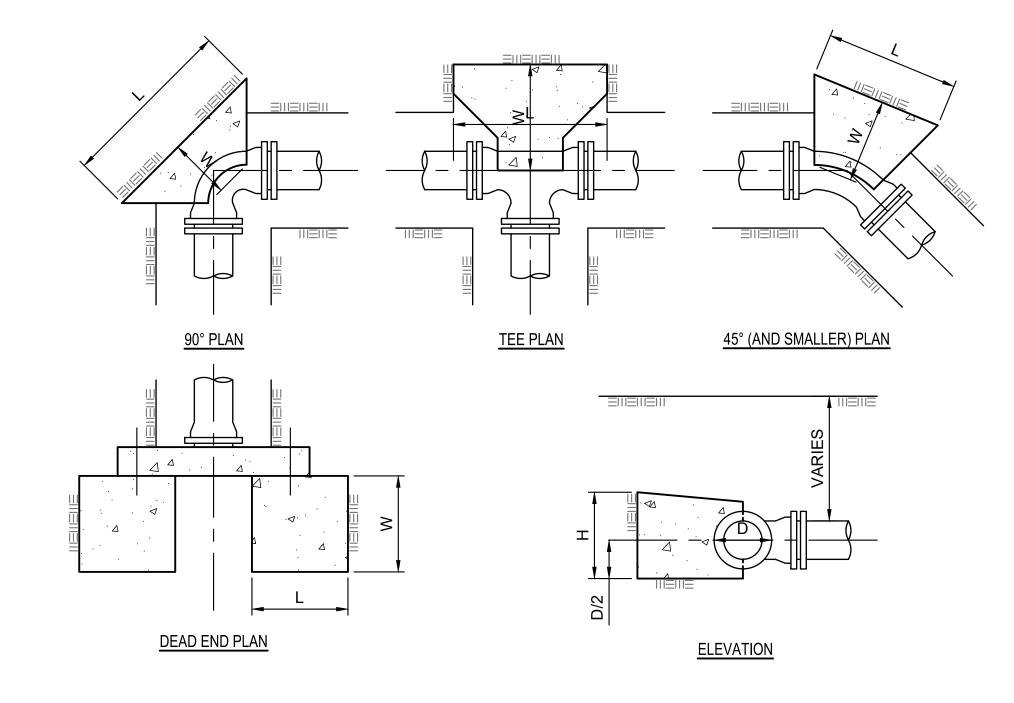
ONE VALVE STEM REQUIRED FOR EACH BURIED VALVE.



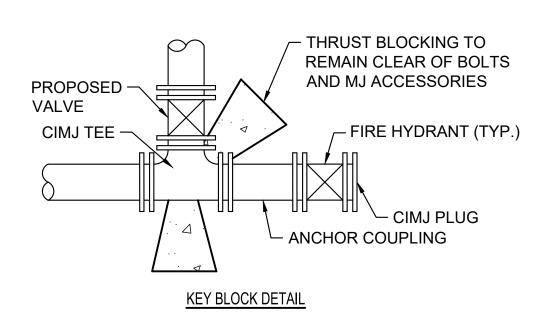


POST INDICATOR VALVE DETAIL NOT TO SCALE

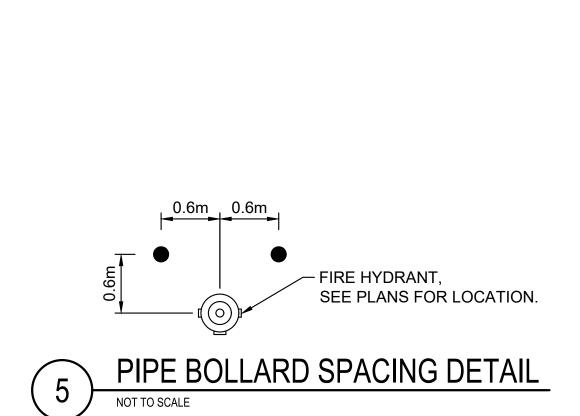
VA FORM 08-6231

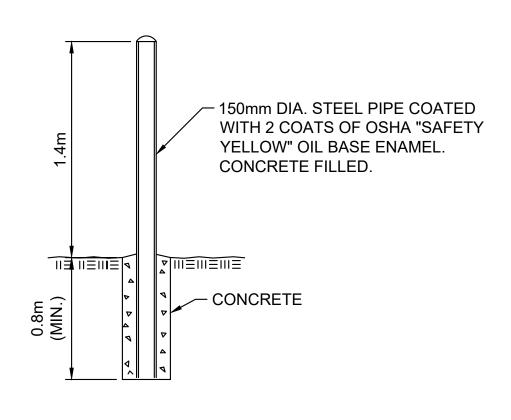


	THRUS	T BLOCK S	CHEDULE	
LINE SIZE	FITTINGS & ANGLE	DIM. "L"	DIM. "H"	DIM. "W"
100mm	45°	0.5m	0.5m	0.3m
100mm	90°	0.6m	0.6m	0.6m
150mm	45°	0.8m	0.6m	0.6m
150mm	90°	0.9m	0.9m	0.9m
100mm	TEE	0.6m	0.5m	0.5m
150mm	TEE	0.9m	0.8m	0.8m
200mm	45°	0.9m	0.6m	0.5m
200mm	90°	1.4m	1.1m	1.1m
200mm	TEE	1.2m	0.9m	0.9m



THRUST BLOCK DETAILS (HORIZONTAL FITTINGS) NOT TO SCALE





6 PIPE BOLLARD DETAIL

NOT TO SCALE

NOTE:

BOLLARDS SHALL BE CONSIDERED SUBSIDIARY TO "FIRE HYDRANT ASSEMBLY".

	IIS DRAWING SHALL NOT BE USED FOR AN WITHOUT THE SEAL AND SIGNATURE PROFESSIONAL ENGINEER.	Y PURPOSE E OF THE	CONSULTANTS	
			HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6050	FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)750-2246
			CIVIL / STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2691	ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)309-2990
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NGINE	ER OF RECORD	
	Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business	
	1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002	
	MR PROJECT NO: 0499-0121	

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	09/03/2021 **ANSAS** **SONAL ENGINEERING** **THE TOTAL CONTROL OF THE TOTAL CONTROL
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of ction lities	Drawing Title CIVIL SITE MISC. WATERLINE DETAILS 2	Phase 100% BID SET	Project Title INSTALL NEW E BUILDING 13	Project Number 589A7-18-302 Building Number 13			
ment	Approved: Project Director		Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS		Drawing Number		
epartment rans Affairs		FULLY SPRINKLERED	Issue Date 2021-09-03	Checked DRC	Drawn SMT / DSB	CU226	

GENERAL NOTES

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS
- 2. 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:

- 3. 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.
- 4. 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 DISPOSAI 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. ALL ELEVATIONS SHOWN ARE NAVD 88.
- 12. ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.

- 13. 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.
- 14. CITY MAINTENANCE OF STORM SEWER ENDS AT THE LAST STRUCTURE IN THE EASEMENT OR RIGHT-OF-WAY.
- 15. CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- 16. THE INSPECTING FIRM SHALL SUBMIT TO THE CITY STORMWATER MAINTENANCE DIVISION A DIGITAL COPY OF THE CCTV INSPECTION OF THE CONDUITS AND STRUCTURES FOLLOWING CONSTRUCTION. THE DIGITAL FILE FORMATION SHALL BE COMPATIBLE WITH THE CITY INPUT TEMPLATE. A COPY OF THE TEMPLATE IS AVAILABLE UPON REQUEST AT 316-268-4090.
- 17. 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.
- 18. A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDED AROUND MANHOLES WHICH EXTEND MORE THAN ON (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUND SHALL BE CONSTRUCTED WITH NEW DEVELOPMENT AS A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.
- 19. GEOTECHNICAL REPORT AVAILABLE UPON REQUEST.

BENCHMARKS

BM201: CHISELED SQUARE ON BACK OF CURB WEST OF STORM INLET EAST OF CENTER DRIVE TO PARKING LOT. ELEV.= 1409.45 (NAVD 88)

BM102: CHISELED SQUARE ON BACK
OF CURB SOUTHEAST OF EAST PARKING
LOT OF FIRE DEPARTMENT ON NORTH
SIDE OF ACCESS DRIVE SOUTH OF FIRE
HYDRANT.
ELEV.= 1411.95 (NAVD 88)

BM103: CHISELED SQUARE ON CENTER BACK OF STORM INLET ON WEST SIDE OF CENTER MEDIAN OF PARKING LOT. ELEV.= 1410.74 (NAVD 88)



STORM SEWER IMPROVEMENTS to serve

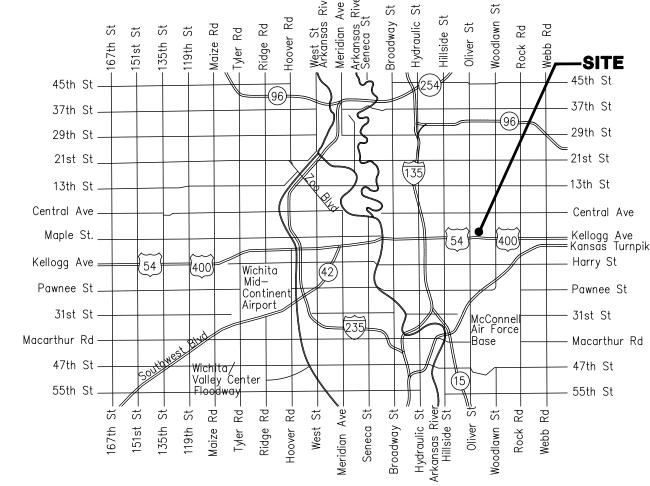
ROBERT J. DOLE VA MEDICAL CENTER BUILDING 13 NEW BOILERS, CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer Project Number 2020-652 PPD (XXXXXXX)

SHEET INDEX

SHEET NO. 1 CU320 — PPD TITLE SHEET
SHEET NO. 2 CU321.01 — STORM SEWER PLAN & PROFILE, PHASE 1
SHEET NO. 3 CU322 — PRECAST MANHOLE DETAILS

HEET NO. 4 CU323 — DROP INLET DETAILS
HEET NO. 8—12 FROSION CONTROL BMP DETAILS ARE AVAILABLE ON THE CITY OF WICHITA WEBSITE



Vicinity Map

Stormwater Certification:

New Development or Redevelopment (Circle One)

Stormwater Permit # N/A
NOI State Permit # N/A

NOI Federal Permit # N/A

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) = 3.03

Disturbed Area (Acres) = <u>.36</u>

Water Quality Treatment: <u>N/A</u>

Downstream Channel Protection: N/A

Detention: N/A

The BMP used for this development is N/A

APPROVED AS NOTED BY WICHITA PUBLIC WORKS ENGINEERING AND STORMWATER DIVISION

Fnaineerina

Stormwater

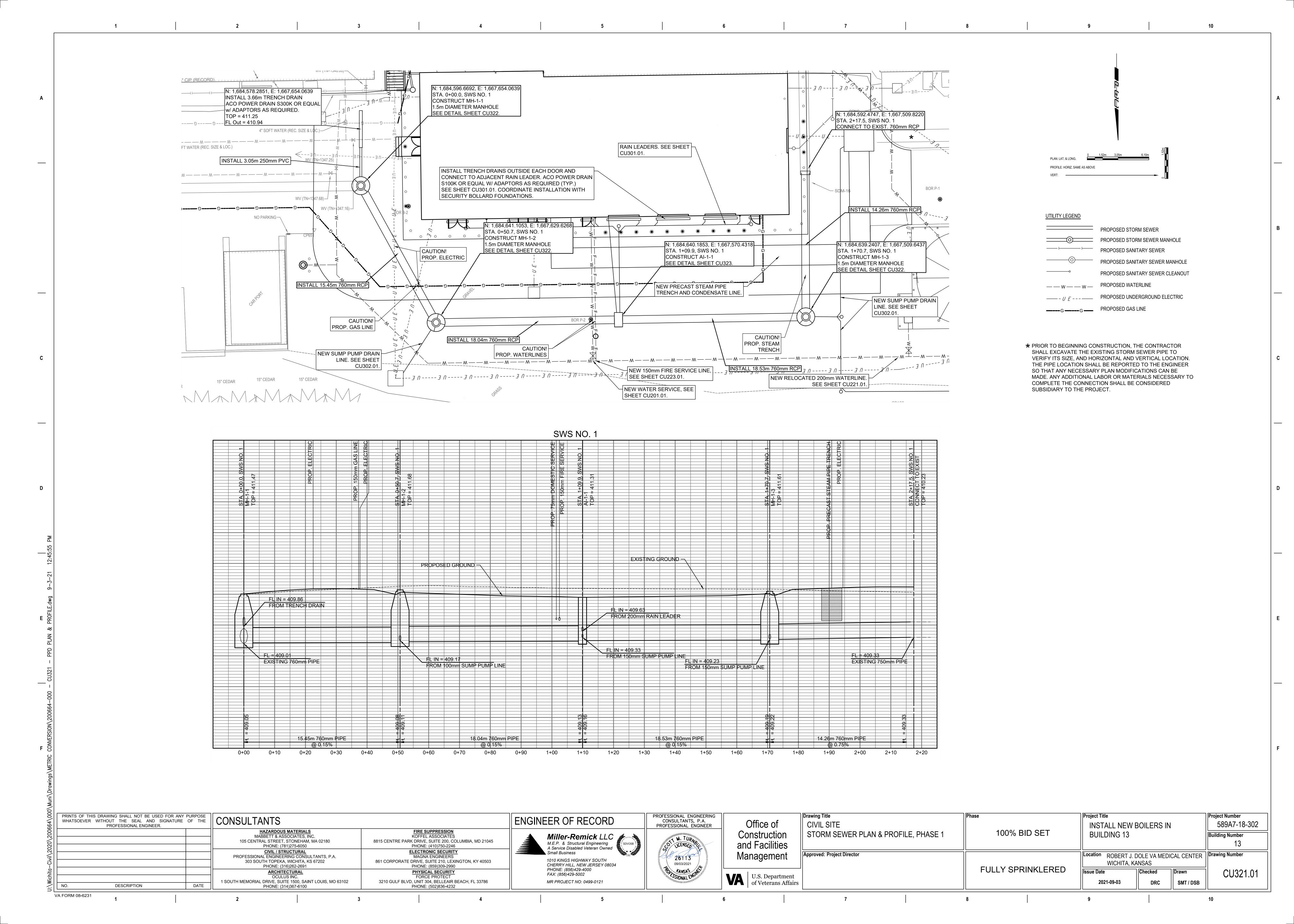
NOTE TO CONTRACTORS

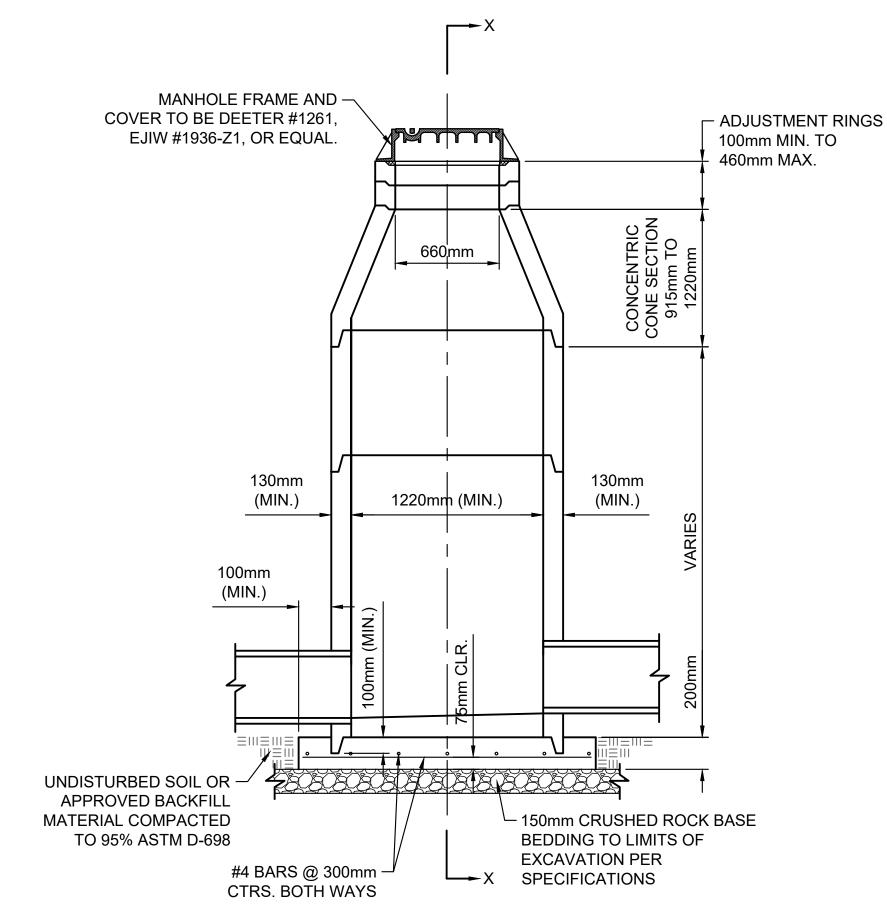
Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said Inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer in the state of Kansas. No work shall be performed 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 current City of Wichita Specifications and Standards and Special Provisions. (on file and available at Wichita.gov).

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

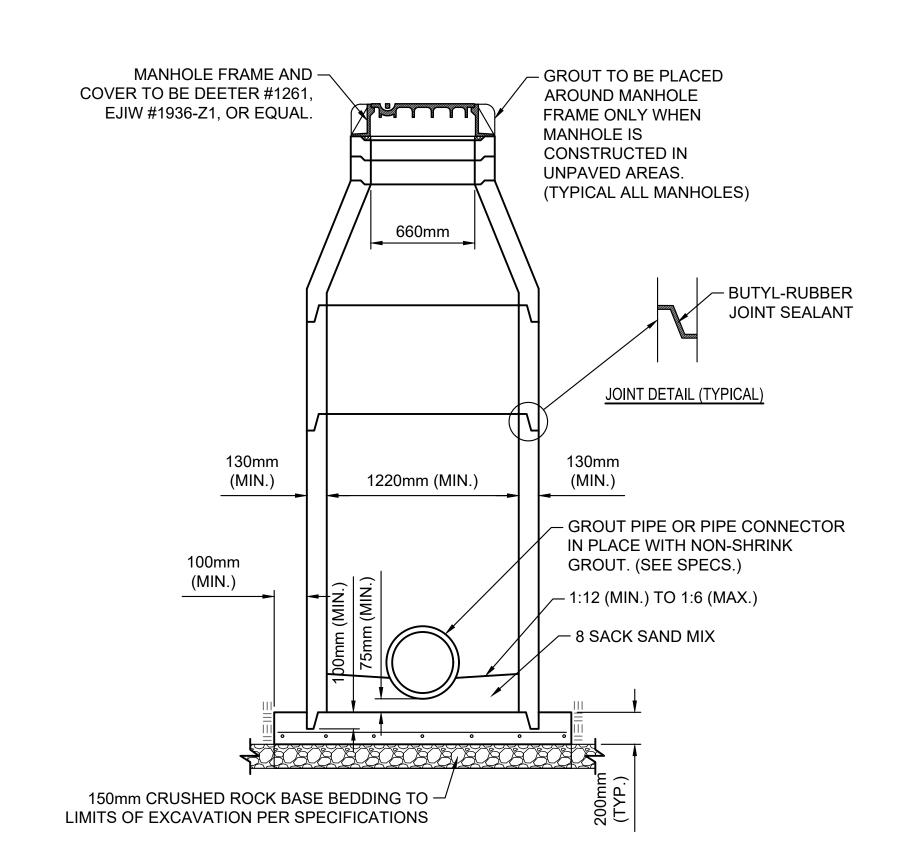
SEPTEMBER 2021

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPO WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF T PROFESSIONAL ENGINEER.	CC CC	DNSULTANTS HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6050	FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)750-2246	ENGINEER OF RECORD Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. PROFESSIONAL ENGINEER M. TURN CENSON CENSON CONTROL OF THE PROPERTY OF THE PROPERT	Office of Construction and Facilities	Drawing Title CIVIL SITE PPD TITLE SHEET	Phase 100% BID SET	Project Title INSTALL NEW BOILERS IN BUILDING 13	Project Number 589A7-18-302 Building Number 13
NO. DESCRIPTION DAT		CIVIL / STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2691 ARCHITECTURAL OCULUS INC. SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)309-2990 PHYSICAL SECURITY FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (502)836-4232	Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002 MR PROJECT NO: 0499-0121	26113 09/03/2021 14/05AS 14/05AS 14/05AS	Management U.S. Department of Veterans Affair	Approved: Project Director	FULLY SPRINKLERED	Location ROBERT J. DOLE VA MEDICAL CENTUMENTAL MICHITA, KANSAS Issue Date 2021-09-03 DRC SMT / D	CU320

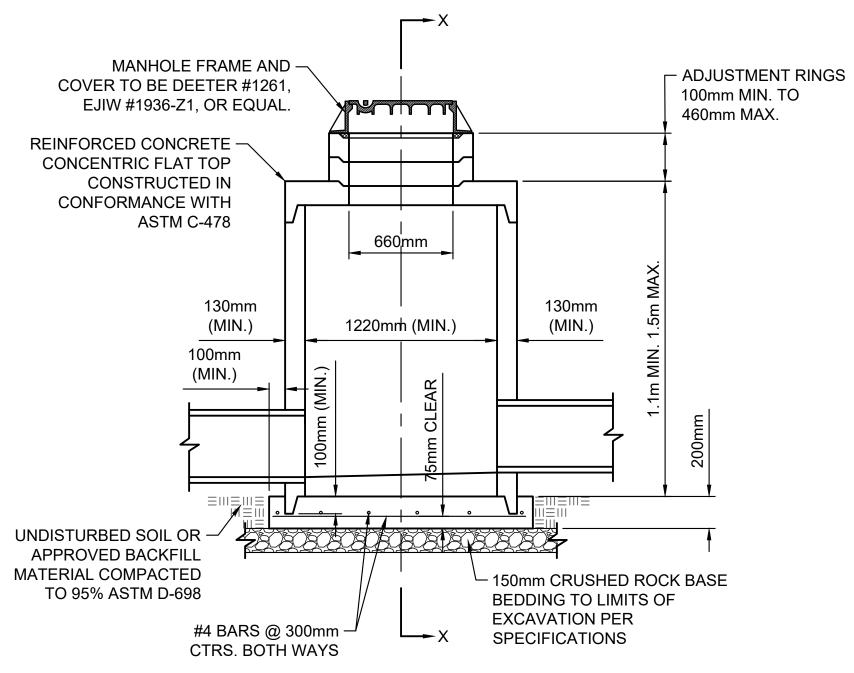




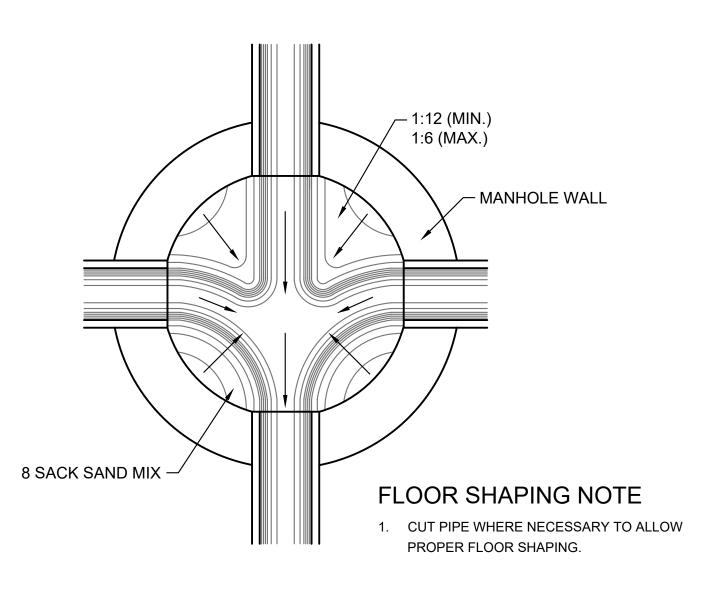
PRECAST STANDARD MANHOLE TYPE "A"



SECTION X-X (TYPICAL)



PRECAST SHALLOW MANHOLE TYPE "B"



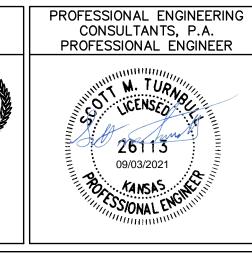
TYPICAL MANHOLE FLOOR SHAPING
NOT TO SCALE

PRECAST MANHOLE NOTES

- 1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE
- 2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
- 3. ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
- 4. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- 5. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
- 6. CONCRETE USED FOR MANHOLE CONSTRUCTION SHALL CONFORM TO CITY SPECIFICATIONS FOR CONCRETE PAVEMENT
- 7. PRECAST MANHOLES SHALL BE SET AT LEAST 100mm INTO MANHOLE BASE.
- 8. MANHOLES WITH PIPE SIZES 610mm AND LARGER SHALL HAVE 1.5 METER INSIDE DIAMETER (MIN.)
- 9. MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. THESE MANHOLES SHALL HAVE AN 200mm MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 200mm MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 1 METER FROM THE MANHOLE WALL.
- 10. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
- 11. THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
- 12. MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE MANHOLE WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
- 13. MANHOLE FRAME AND COVER TO BE DEETER #1261, EJIW #1936-Z1, OR APPROVED EQUAL (NO LOGO).
- 14. FOR FLAT GRATED INLET APPLICATION, GRATE TO BE DEETER #1933, EJIW #1205 MDI, OR APPROVED EQUAL.
- 15. FOR BEEHIVE GRATE APPLICATION, GRATE TO BE DEETER #4495, EJIW #120545, OR APPROVED EQUAL.

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.		CONSULTANTS			
			HAZARDOUS MATERIALS	FIRE SUPPRESSION	
			MABBETT & ASSOCIATES, INC.	KOFFEL ASSOCIATES	Ш
			105 CENTRAL STREET, STONEHAM, MA 02180	8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045	Ш
			PHONE: (781)275-6050	PHONE: (410)750-2246	ي ال
			CIVIL / STRUCTURAL	ELECTRONIC SECURITY	Ⅱ≞
			PROFESSIONAL ENGINEERING CONSULTANTS, P.A.	MAGNA ENGINEERS	
			303 SOUTH TOPEKA, WICHITA, KS 67202	861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503	Ш
			PHONE: (316)262-2691	PHONE: (859)309-2990	Ш
			ARCHITECTURAL	PHYSICAL SECURITY	71
			OCULUS INC.	FORCE PROTECT	Ш
			1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102	3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786	Ш
NO.	DESCRIPTION	DATE	PHONE: (314)367-6100	PHONE: (502)836-4232	

ENGINEER OF RECORD Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002 MR PROJECT NO: 0499-0121



Office of Construction

and Facilities Management					
/ A	U.S. Department of Veterans Affairs				

Drawing Title	Phase	Project Title			Project Number
CIVIL SITE	100% BID SET	INSTALL NEW BOILERS IN BUILDING 13			589A7-18-302
PRECAST MANHOLE DETAILS					Building Number
					13
roved: Project Director Coved: Project Director WICHITA, KANSAS			CAL CENTER	Drawing Number	
	FULLY SPRINKLERED	Issue Date	Checked	Drawn	CU322
		2021-09-03	DRC	SMT / DSB	

VA FORM 08-6231

