LEGAL DESCRIPTION

A tract of land being part of the Southeast Quarter of Section 28, Township 12 South, Range 22 East, in Johnson County, Kansas, being more particularly described as follows: Beginning at the Northeast corner of Lot 1, Medical Plaza Final Plat, a recorded subdivision in Book 79, Page 31 in the Johnson County recorder of deeds; Thence South 86°04'16" West, 235.56 feet along the North line of said subdivision, to the East line of Wyvoff View, a subdivision recorded in Book 28, Page 23, at the Johnson County Recorder of Deeds office; Thence North 01°49'13" East, 438.75 feet along said East line, to the South Right of Way line of West 85th St, as now established; Thence North 88°07'17" East, along said Right of Way, 171.64 feet; Thence South 01°49'17" East, 100.00 feet; Thence North 88°07'17" East, 172.75 feet; Thence South 01°49'17" East, 200 feet; Thence South 88°07'17" West, 62.50 feet; Thence South 01°49'17" East, 102.00'; Thence South 88°07'17" West, 46.49 feet; Thence South 01°49'17" East, 28.32 feet, to the Point of Beginning. Contains 1,222,454 square feet or 2.84 acres more or less.

UTILITIES

<u>ELECTRIC</u> EVERGY CONTACT MATT ROECKER (913)667—5116

<u>NATURAL GAS</u> ATMOS ENERGY P.O BOX 650205 DALLAS, TEXAS 75265-0205 (888) 286-6700

<u>SANITARY SEWER</u> CITY OF DE SOTO 32905 W. 84TH STREET DE SOTO, KS 66018 (913) 238—0434 <u>WATER</u> CITY OF DE SOTO 32905 W. 84TH STREET DE SOTO, KS 66018 (913) 238-0434

<u>STORMWATER</u> CITY OF DE SOTO 32905 W. 84TH STREET DE SOTO, KS 66018 (913) 238-0434

CABLE/COMMUNICATIONS SPECTRUM CABLE 6921 W. 119TH STREET (855)707-7328

LEGEND

	PROPOSED STREET
	PROPOSED SIDEWALK
	PROPOSED R/W
	PROPOSED EASEMENT
904 905	EXISTING CONTOURS
WV 	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
WM	EXISTING WATER METER
	EXISTING WATER
<u>12"RCP</u>	EXISTING STORM SEWER
S— — 8" SAN- — -	EXISTING SANITARY SEWER
——— G ———	EXISTING GAS
OHP	EXISTING OVERHEAD POWER
FO	EXISTING FIBER OPTIC
——— TEL ———	EXISTING TELEPHONE
— — — UGE— — —	EXISTING UNDERGROUND POWER
	EXISTING UTILITY POLE

SURVEY CONTROL POINTS

Survey Control Points										
Point #	Northing	Easting	Description							
2	247522.47	2173039.71	819.88	BM790						
40	248003.64	2172649.83	859.30	Square Cut in Top of Curb						
50	248002.59	2172696.95	858.06	Plus Cut in Sidewalk						
51	247992.86	2172502.82	855.55	Plus Cut in Top of Curb						

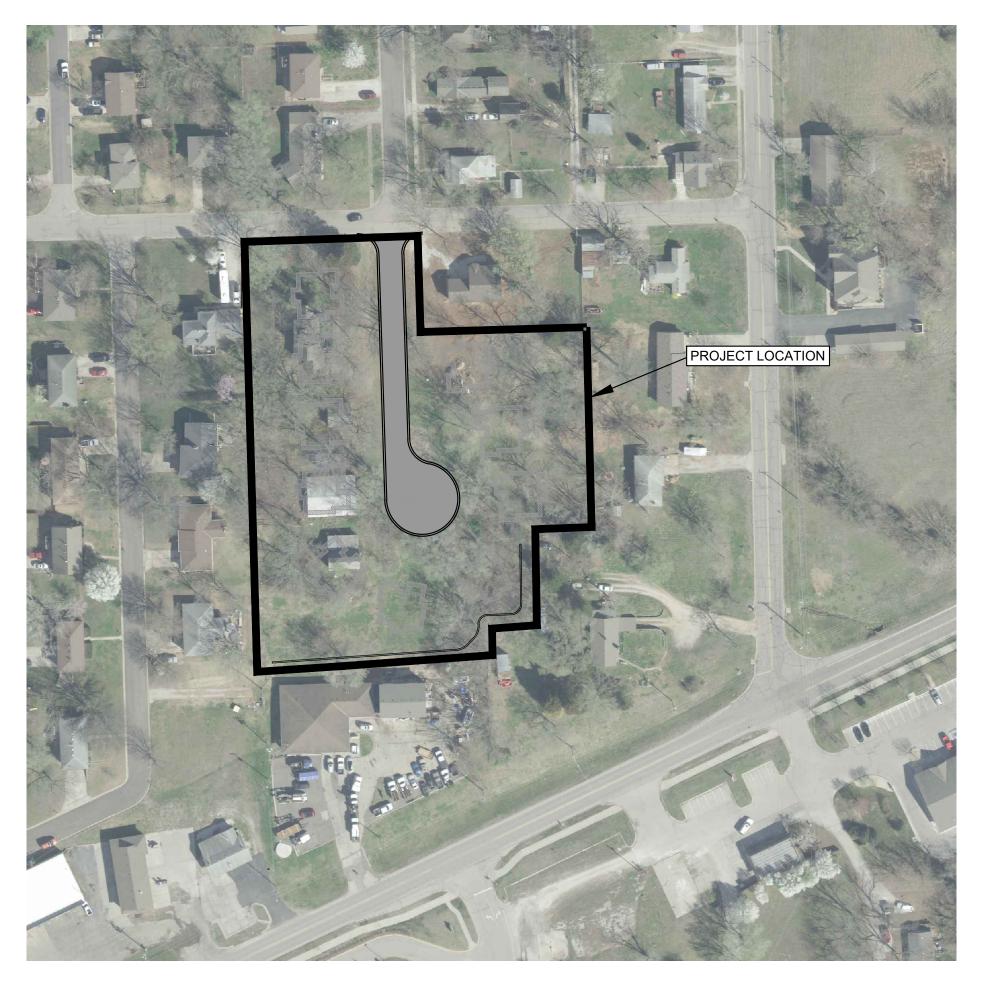
BENCHMARK

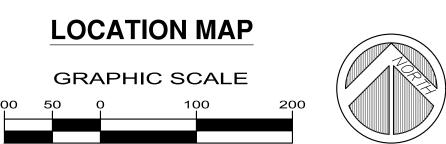
<u>BM790</u>: Alum Disk Located at the intersection of Ottawa & Lexington, on the Northwest corner of the intersection, on 1st curb inlet on West side of Ottawa.

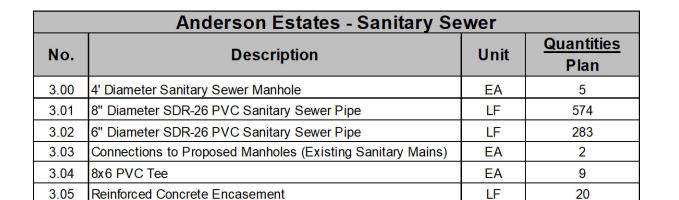
Elevation = 819.88

ANDERSON ESTATES SANITARY SEWER PLANS 33475 W 85TH ST DE SOTO, KS 66018

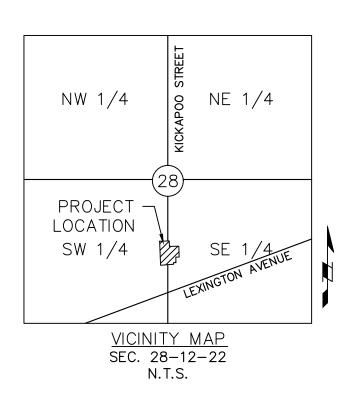
Sanitary Permit #202400116







(SCALE IN FEET)



Know what's below. Call before you dig.

Milburn Civil Engineering, LLC

MILBURN CIVIL ENGINEERING, LLC 33135 W 83RD ST DE SOTO, KS 66018 913-583-0367



33 DE

INDEX OF SHEETS

C400 COVER PAGE
C401 GENERAL LAYOUT
C402 PLAN & PROFILE 'LINE—A'
C403 SAN SERVICE LINE DETAILS
C404 DETAILS AND CALCULATIONS

OWNER

PRAIRIE FIELD DEVELOPMENT CO LLC 26035 W 73RD ST SHAWNEE, KS 66227



4/3/24

CIVIL ENGINEER

MILBURN CIVIL ENGINEERING, LLC 33135 W. 83RD ST DE SOTO, KS 66018

PLANS PREPARED AND SUBMITTED BY:



04/05/2024

JUSTIN MILBURN, KANSAS PE #18836

DA TE

APPROVED BY: CITY OF DE SOTO, KANSAS



04/05/2024

JOE JOHNSON CITY ENGINEER, DE SOTO, KANSAS APPROVED FROM ONE YEAR FROM THIS DATE DA TE

REVISIONS DATE

DATE
DESIGNED BY
CHECKED BY

COVER C400

GENERAL NOTES

- ALL EXISTING UTILITIES INDICATED ON THE DRAWINGS ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- PRIOR TO THE LAYING OF PIPE OR SETTING OF MANHOLES, THE CONTRACTOR SHALL EXPOSE ALL UTILITIES AT PIPE CROSSINGS AND VERIFY

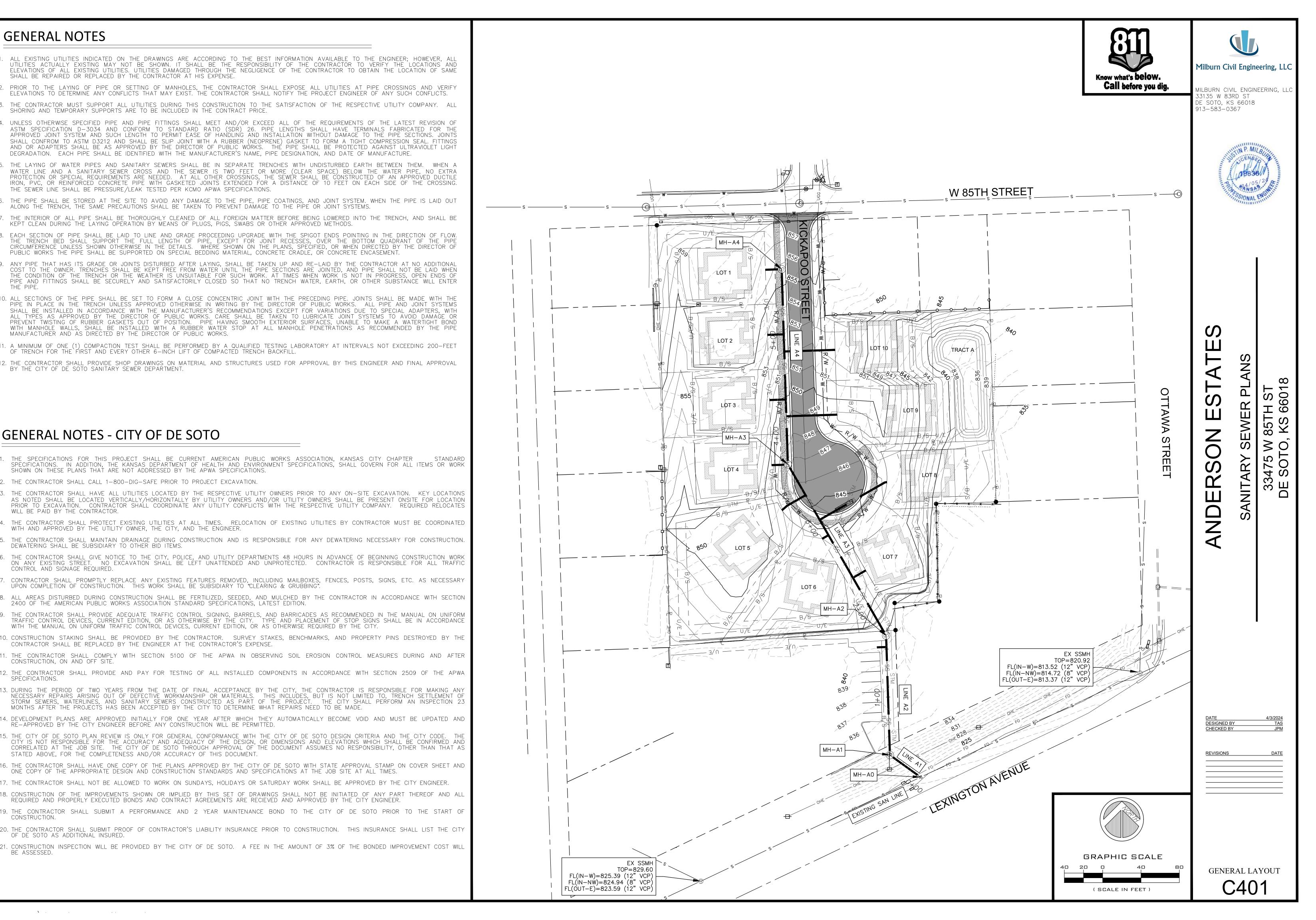
ELEVATIONS TO DETERMINE ANY CONFLICTS THAT MAY EXIST. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER OF ANY SUCH CONFLICTS.

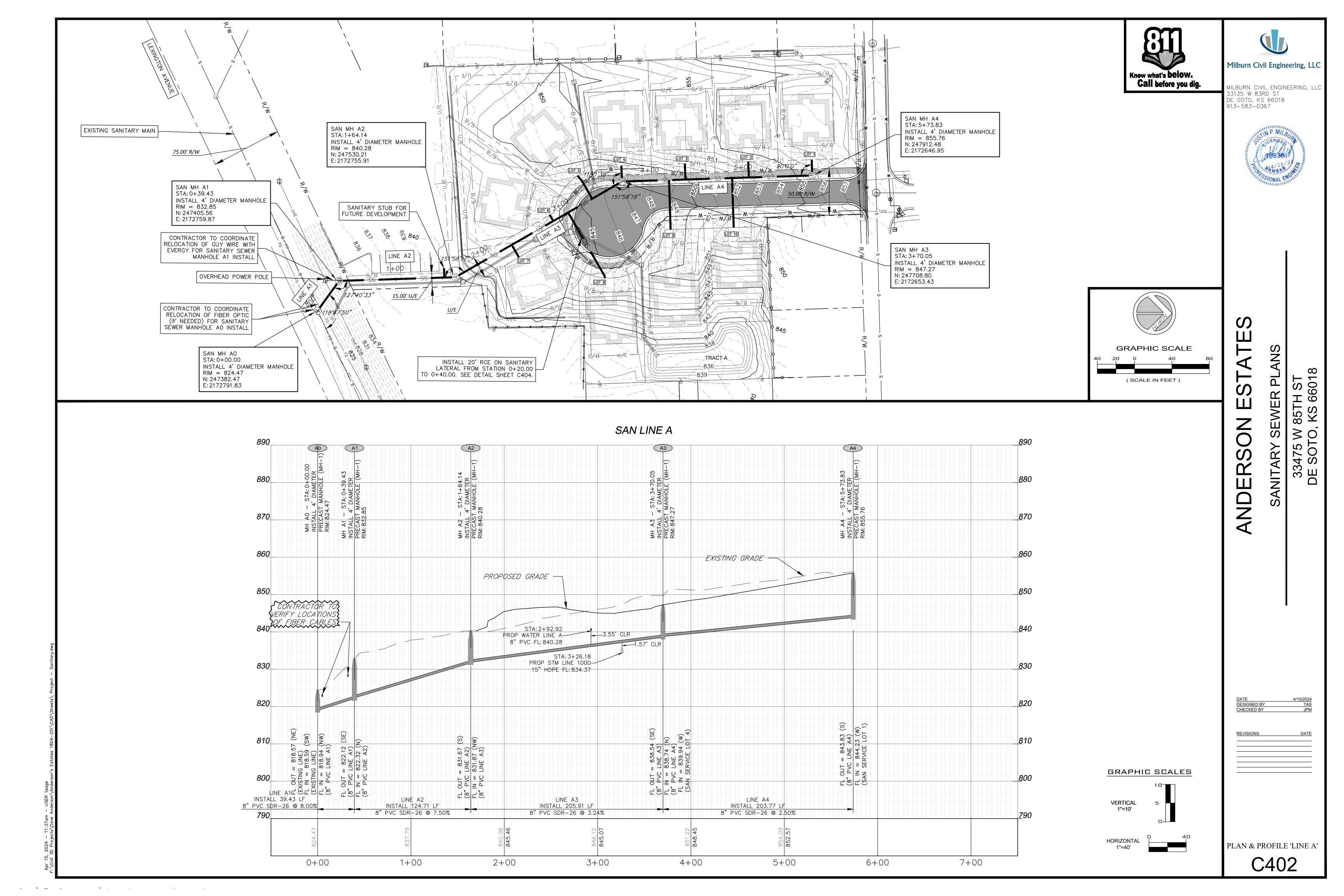
- THE CONTRACTOR MUST SUPPORT ALL UTILITIES DURING THIS CONSTRUCTION TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANY. ALL SHORING AND TEMPORARY SUPPORTS ARE TO BE INCLUDED IN THE CONTRACT PRICE.
- UNLESS OTHERWISE SPECIFIED PIPE AND PIPE FITTINGS SHALL MEET AND/OR EXCEED ALL OF THE REQUIREMENTS OF THE LATEST REVISION OF ASTM SPECIFICATION D-3034 AND CONFORM TO STANDARD RATIO (SDR) 26. PIPE LENGTHS SHALL HAVE TERMINALS FABRICATED FOR THE APPROVED JOINT SYSTEM AND SUCH LENGTH TO PERMIT EASE OF HANDLING AND INSTALLATION WITHOUT DAMAGE TO THE PIPE SECTIONS. JOINTS SHALL CONFROM TO ASTM D3212 AND SHALL BE SLIP JOINT WITH A RUBBER (NEOPRENE) GASKET TO FORM A TIGHT COMPRESSION SEAL. FITTINGS AND OR ADAPTERS SHALL BE AS APPROVED BY THE DIRECTOR OF PUBLIC WÖRKS. THÉ PIPE SHALL BE PROTECTED AGAINST ULTRAVIOLET LIGHT DEGRADATION. EACH PIPE SHALL BE IDENTIFIED WITH THE MANUFACTURER'S NAME, PIPE DESIGNATION, AND DATE OF MANUFACTURE.
- THE LAYING OF WATER PIPES AND SANITARY SEWERS SHALL BE IN SEPARATE TRENCHES WITH UNDISTURBED EARTH BETWEEN THEM. WHEN A WATER LINE AND A SANITARY SEWER CROSS AND THE SEWER IS TWO FEET OR MORE (CLEAR SPACE) BELOW THE WATER PIPE, NO EXTRA PROTECTION OR SPECIAL REQUIREMENTS ARE NEEDED. AT ALL OTHER CROSSINGS, THE SEWER SHALL BE CONSTRUCTED OF AN APPROVED DUCTILE IRON, PVC, OR REINFORCED CONCRETE PIPE WITH GASKETED JOINTS EXTENDED FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING. THE SEWER LINE SHALL BE PRESSURE/LEAK TESTED PER KCMO APWA SPECIFICATIONS.
- THE PIPE SHALL BE STORED AT THE SITE TO AVOID ANY DAMAGE TO THE PIPE, PIPE COATINGS, AND JOINT SYSTEM. WHEN THE PIPE IS LAID OUT ALONG THE TRENCH, THE SAME PRECAUTIONS SHALL BE TAKEN TO PREVENT DAMAGE TO THE PIPE OR JOINT SYSTEMS.
- THE INTERIOR OF ALL PIPE SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER BEFORE BEING LOWERED INTO THE TRENCH, AND SHALL BE KEPT CLEAN DURING THE LAYING OPERATION BY MEANS OF PLUGS, PIGS, SWABS OR OTHER APPROVED METHODS.
- EACH SECTION OF PIPE SHALL BE LAID TO LINE AND GRADE PROCEEDING UPGRADE WITH THE SPIGOT ENDS POINTING IN THE DIRECTION OF FLOW. THE TRENCH BED SHALL SUPPORT THE FULL LENGTH OF PIPE, EXCEPT FOR JOINT RECESSES, OVER THE BOTTOM QUADRANT OF THE PIPE CIRCUMFERENCE UNLESS SHOWN OTHERWISE IN THE DETAILS. WHÉRE SHOWN ON THE PLANS, SPECIFIED, OR WHEN DIRECTED BY THE DIRECTOR OF PUBLIC WORKS THE PIPE SHALL BE SUPPORTED ON SPECIAL BEDDING MATERIAL, CONCRETE CRADLE, OR CONCRETE ENCASEMENT.
- ANY PIPE THAT HAS ITS GRADE OR JOINTS DISTURBED AFTER LAYING, SHALL BE TAKEN UP AND RE-LAID BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. TRENCHES SHALL BE KEPT FREE FROM WATER UNTIL THE PIPE SECTIONS ARE JOINTED, AND PIPE SHALL NOT BE LAID WHEN THE CONDITION OF THE TRENCH OR THE WEATHER IS UNSUITABLE FOR SUCH WORK. AT TIMES WHEN WORK IS NOT IN PROGRESS, OPEN ENDS OF PIPE AND FITTINGS SHALL BE SECURELY AND SATISFACTORILY CLOSED SO THAT NO TRENCH WATER, EARTH, OR OTHER SUBSTANCE WILL ENTER
- . ALL SECTIONS OF THE PIPE SHALL BE SET TO FORM A CLOSE CONCENTRIC JOINT WITH THE PRECEDING PIPE. JOINTS SHALL BE MADE WITH THE PIPE IN PLACE IN THE TRENCH UNLESS APPROVED OTHERWISE IN WRITING BY THE DIRECTOR OF PUBLIC WORKS. ALL PIPE AND JOINT SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS EXCEPT FOR VARIATIONS DUE TO SPECIAL ADAPTERS, WITH ALL TYPES AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS. CARE SHALL BE TAKEN TO LUBRICATE JOINT SYSTEMS TO AVOID DAMAGE OR PREVENT TWISTING OF RUBBER GASKETS OUT OF POSITION. PIPE HAVING SMOOTH EXTERIOR SURFACES, UNABLE TO MAKE A WATERTIGHT BOND WITH MANHOLE WALLS, SHALL BE INSTALLED WITH A RUBBER WATER STOP AT ALL MANHOLE PENETRATIONS AS RECOMMENDED BY THE PIPE MANUFACTURER AND AS DIRECTED BY THE DIRECTOR OF PUBLIC WORKS.
- A MINIMUM OF ONE (1) COMPACTION TEST SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY AT INTERVALS NOT EXCEEDING 200-FEET OF TRENCH FOR THE FIRST AND EVERY OTHER 6-INCH LIFT OF COMPACTED TRENCH BACKFILL.
- 12. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS ON MATERIAL AND STRUCTURES USED FOR APPROVAL BY THIS ENGINEER AND FINAL APPROVAL BY THE CITY OF DE SOTO SANITARY SEWER DEPARTMENT

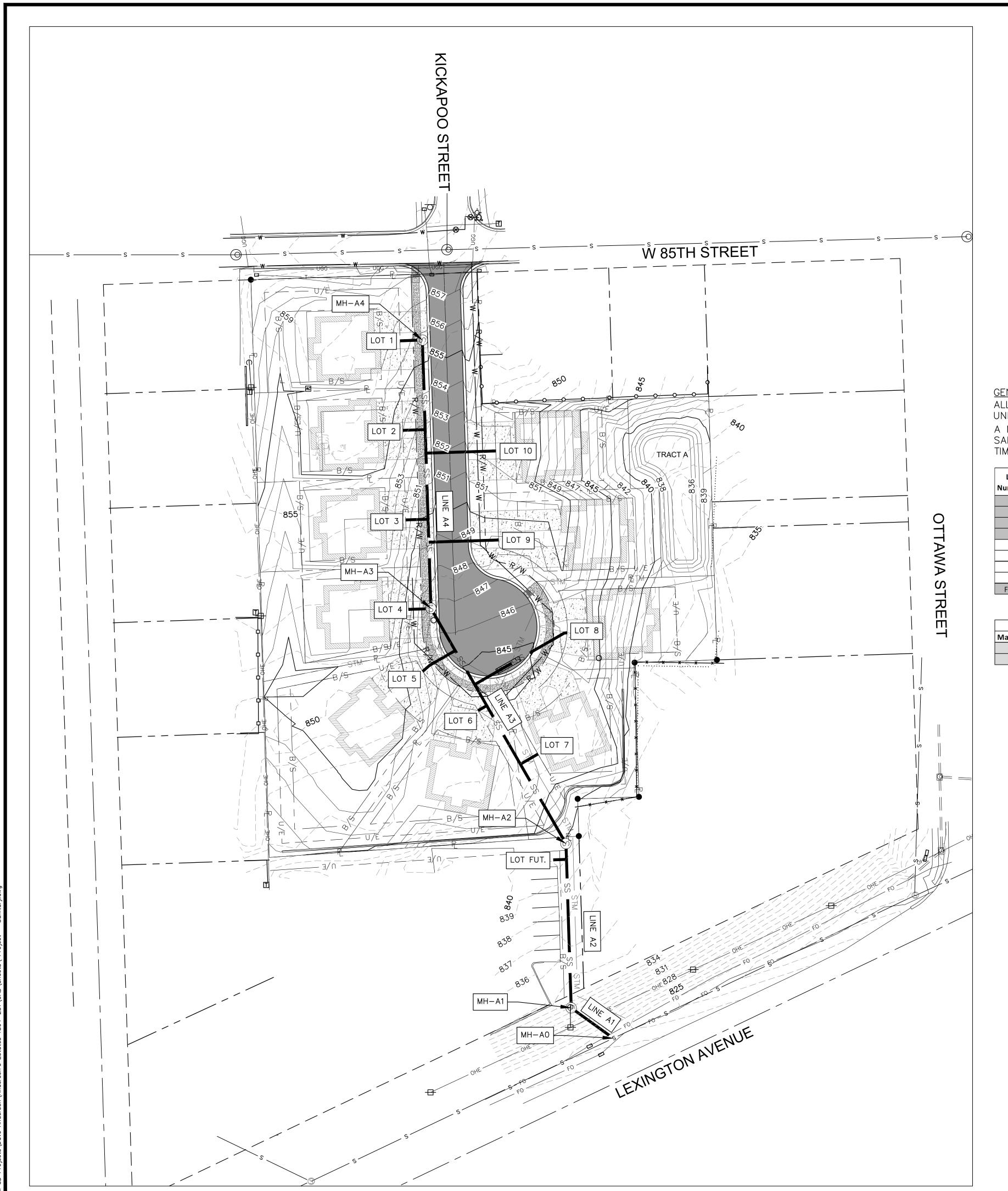
GENERAL NOTES - CITY OF DE SOTO

OF DE SOTO AS ADDITIONAL INSURED.

- THE SPECIFICATIONS FOR THIS PROJECT SHALL BE CURRENT AMERICAN PUBLIC WORKS ASSOCIATION, KANSAS CITY CHAPTER SPECIFICATIONS. IN ADDITION, THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT SPECIFICATIONS, SHALL GOVERN FOR ALL ITEMS OR WORK SHOWN ON THESE PLANS THAT ARE NOT ADDRESSED BY THE APWA SPECIFICATIONS.
- THE CONTRACTOR SHALL CALL 1-800-DIG-SAFE PRIOR TO PROJECT EXCAVATION.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED BY THE RESPECTIVE UTILITY OWNERS PRIOR TO ANY ON—SITE EXCAVATION. KEY LOCATIONS AS NOTED SHALL BE LOCATED VERTICALLY/HORIZONTALLY BY UTILITY OWNERS AND/OR UTILITY OWNERS SHALL BE PRESENT ONSITE FOR LOCATION PRIOR TO EXCAVATION. CONTRACTOR SHALL COORDINATE ANY UTILITY CONFLICTS WITH THE RESPECTIVE UTILITY COMPANY. REQUIRED RELOCATES WILL BE PAID BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AT ALL TIMES. RELOCATION OF EXISTING UTILITIES BY CONTRACTOR MUST BE COORDINATED WITH AND APPROVED BY THE UTILITY OWNER, THE CITY, AND THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DEWATERING NECESSARY FOR CONSTRUCTION. DEWATERING SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
- THE CONTRACTOR SHALL GIVE NOTICE TO THE CITY, POLICE, AND UTILITY DEPARTMENTS 48 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION WORK ON ANY EXISTING STREET. NO EXCAVATION SHALL BE LÉFT UNATTENDED AND UNPROTECTED. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SIGNAGE REQUIRED.
- CONTRACTOR SHALL PROMPTLY REPLACE ANY EXISTING FEATURES REMOVED, INCLUDING MAILBOXES, FENCES, POSTS, SIGNS, ETC. AS NECESSARY UPON COMPLETION OF CONSTRUCTION. THIS WORK SHALL BE SUBSIDIARY TO "CLEARING & GRUBBING".
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE FERTILIZED, SEEDED, AND MULCHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 2400 OF THE AMERICAN PUBLIC WORKS ASSOCIATION STANDARD SPECIFICATIONS, LATEST EDITION.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL SIGNING, BARRELS, AND BARRICADES AS RECOMMENDED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, OR AS OTHERWISE BY THE CITY. TYPE AND PLACEMENT OF STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, OR AS OTHERWISE REQUIRED BY THE CITY.
- O. CONSTRUCTION STAKING SHALL BE PROVIDED BY THE CONTRACTOR. SURVEY STAKES, BENCHMARKS, AND PROPERTY PINS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COMPLY WITH SECTION 5100 OF THE APWA IN OBSERVING SOIL EROSION CONTROL MEASURES DURING AND AFTER CONSTRUCTION, ON AND OFF SITE.
- 12. THE CONTRACTOR SHALL PROVIDE AND PAY FOR TESTING OF ALL INSTALLED COMPONENTS IN ACCORDANCE WITH SECTION 2509 OF THE APWA
- 3. DURING THE PERIOD OF TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE BY THE CITY, THE CONTRACTOR IS RESPONSIBLE FOR MAKING ANY NECESSARY REPAIRS ARISING OUT OF DEFECTIVE WORKMANSHIP OR MATERIALS. THIS INCLUDES, BUT IS NOT LIMITED TO, TRENCH SETTLEMENT OF STORM SEWERS, WATERLINES, AND SANITARY SEWERS CONSTRUCTED AS PART OF THE PROJECT. THE CITY SHALL PERFORM AN INSPECTION 23 MONTHS AFTER THE PROJECTS HAS BEEN ACCEPTED BY THE CITY TO DETERMINE WHAT REPAIRS NEED TO BE MADE.
- 14. DEVELOPMENT PLANS ARE APPROVED INITIALLY FOR ONE YEAR AFTER WHICH THEY AUTOMATICALLY BECOME VOID AND MUST BE UPDATED AND RE-APPROVED BY THE CITY ENGINEER BEFORE ANY CONSTRUCTION WILL BE PERMITTED.
- 15. THE CITY OF DE SOTO PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE CITY OF DE SOTO DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, OR DIMENSIONS AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF DE SOTO THROUGH APPROVAL OF THE DOCUMENT ASSUMES NO RESPONSIBILITY, OTHER THAN THAT AS STATED ABOVE, FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.
- 16. THE CONTRACTOR SHALL HAVE ONE COPY OF THE PLANS APPROVED BY THE CITY OF DE SOTO WITH STATE APPROVAL STAMP ON COVER SHEET AND ONE COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES.
- 17. THE CONTRACTOR SHALL NOT BE ALLOWED TO WORK ON SUNDAYS, HOLIDAYS OR SATURDAY WORK SHALL BE APPROVED BY THE CITY ENGINEER.
- REQUIRED AND PROPERLY EXECUTED BONDS AND CONTRACT AGREEMENTS ARE RECIEVED AND APPROVED BY THE CITY ENGINEER. 19. THE CONTRACTOR SHALL SUBMIT A PERFORMANCE AND 2 YEAR MAINTENANCE BOND TO THE CITY OF DE SOTO PRIOR TO THE START OF
- CONSTRUCTION. 20. THE CONTRACTOR SHALL SUBMIT PROOF OF CONTRACTOR'S LIABILITY INSURANCE PRIOR TO CONSTRUCTION. THIS INSURANCE SHALL LIST THE CITY
- . CONSTRUCTION INSPECTION WILL BE PROVIDED BY THE CITY OF DE SOTO. A FEE IN THE AMOUNT OF 3% OF THE BONDED IMPROVEMENT COST WILL BE ASSESSED.











MILBURN CIVIL ENGINEERING, LLC 33135 W 83RD ST DE SOTO, KS 66018 913-583-0367



33475 DE SOT

SANITARY

GENERAL NOTES:

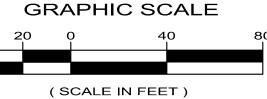
ALL STUBS SHALL BE 6" PVC (SDR-26) INSTALLED AT 2.00% SLOPE, UNLESS OTHERWISE NOTED IN THESE PLANS.

A MINIMUM OF THREE (3) FEET OF COVER SHALL BE PROVIDED OVER THE SANITARY SEWER MAIN AND SERVICE STUBS AND MAINTAINED AT ALL TIMES

Lot Number	Line	Station	Flowline of SS	Lateral Length*	DDS*	Riser Height	Riser Pipe Length	Flowline at End of Lateral (10' Inside R/W)	Minimum Serviceable Floor Elevation (MSFE)	Minimum FFE (Grading)	Difference	Lot Number
10	A4	4+87.96	841.69	53.00	117.91	1.00	1.41	844.40	847.80	853.15	5.35	10
2	A4	5+05.84	842.13	17.00	135.79	9.00	12.73	851.96	855.36	856.18	0.82	2
9	A4	4+20.35	840.00	53.00	50.30	0.00	0.00	841.73	845.13	851.24	6.11	9
3	A4	4+37.85	840.43	17.00	67.80	9.00	12.73	850.26	853.66	854.50	0.84	3
5	A3	3+33.04	837.34	29.33	168.90	0.00	0.00	838.60	842.00	850.83	8.83	5
8	A3	3+03.42	836.38	80.58	139.28	0.00	0.00	838.66	842.06	847.00	4.94	8
7	A3	2+33.7	834.12	15.43	69.56	5.00	7.07	840.00	843.40	844.00	0.60	7
6	A3	2+84.94	835.78	7.50	120.80	6.00	8.49	842.48	845.88	847.00	1.12	6
FUT.	A2	1+52.19	830.77	10.00	112.76	7.00	9.90	838.50	841.90	843.00	1.10	FUT.

	Manhole Stub Information										
Manhole	ole Invert @ MH Lot Lateral Length (ft) Riser Height Riser Pipe Length EOS MSFE							FFE			
А3	838.94	4	13	0	0	839.20	842.6	852.78			
A4	844.23	1	13	9	12.73	853.31	856.71	858			





SAN SERVICE LINE DETAILS

C403

SANITARY FLOW CALCULATIONS

NITARY SEWE	R NETWORK											
Upstream	Pipe	Downstream	Downstream	Proposed	Future	Total	Minimum	Proposed	Total	Pipe	Downstream	Pipe
Manhole	Section	Pipe Slope	Pipe Diameter	Local	Local	Cumulative	Hourly Peak	Local	Cumulative	Manning	Pipe	Full Flow
				Area	Area	Area	Design Flows	Peak Flows	Peak Flow		Capacity	Velocity
		(ft/ft)	(in.)	(Ac.)	(Ac.)	(Ac.)	(cfs/ac)	(cfs)	(cfs)	(n)	(cfs)	(fps)
LINE A												
MH A0	MH A1	0.0808	8	2.81	0.00	2.81	0.02	0.06	0.06	0.013	3.44	9.87

-2" SURFACE (APWA TYPE 3-01)



SEE PLANS & PROFILE SHEETS FOR REQ'D. ENCASEMENT LENGTHS

#6 LONGITUDINAL BAR



MILBURN CIVIL ENGINEERING, LLC 33135 W 83RD ST DE SOTO, KS 66018 913-583-0367

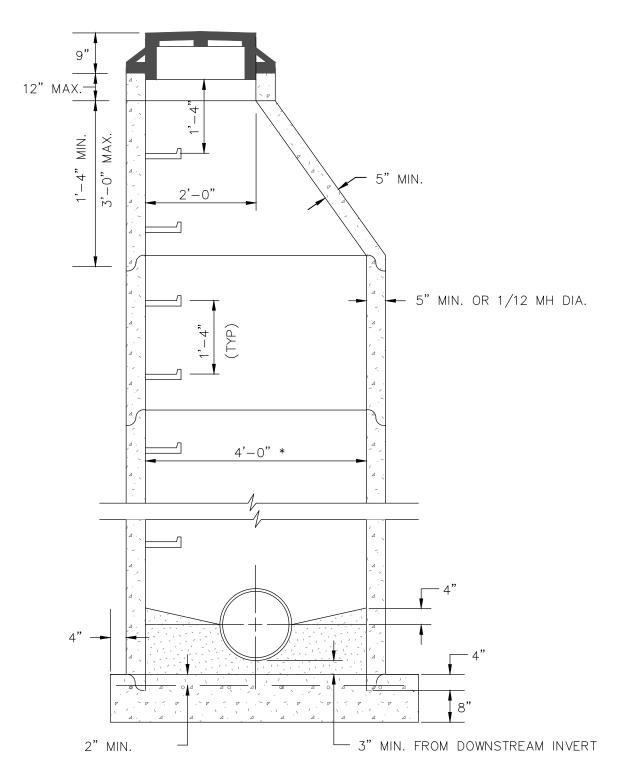


SANITARY , 4 Q 33 DE

DESIGNED BY

DETAILS AND CALCULATIONS

C404



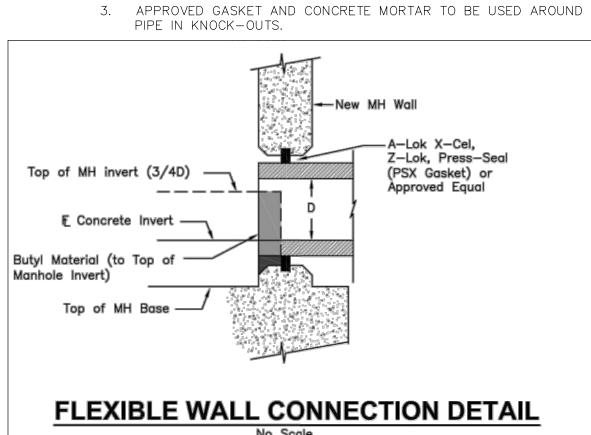
* UNLESS OTHERWISE NOTED ON PLANS LOCATIONS SHOWN ON DRAWINGS ARE TO CENTER OF STRUCTURE.

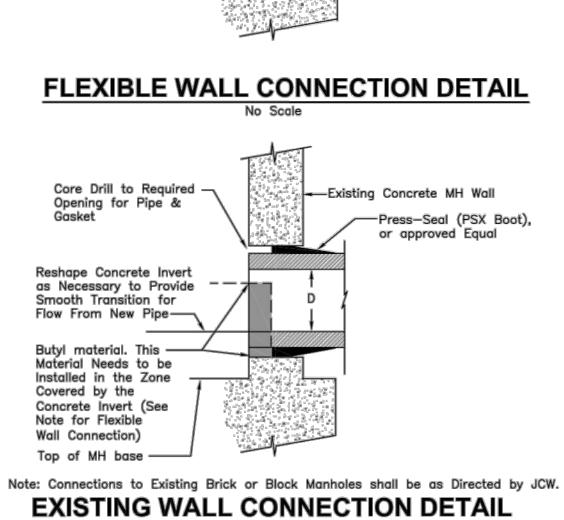
STANDARD PRECAST MANHOLE-MH-1

N.T.S.

GENERAL NOTES FOR PRE-CAST MANHOLES

- 1. REINFORCEMENT IN ALL SECTIONS SHALL EQUAL OR EXCEED A.S.T.M. C-478 SPECIFICATIONS.
- 2. MASTIC MATERIAL TO BE USED AT ALL SECTIONS JOINTS.
 O-RINGS MAY BE USED FOR JOINTS BELOW THE CONE SECTION,
 BUT THE CONE SECTION ITSELF SHALL NOT HAVE O-RING JOINTS





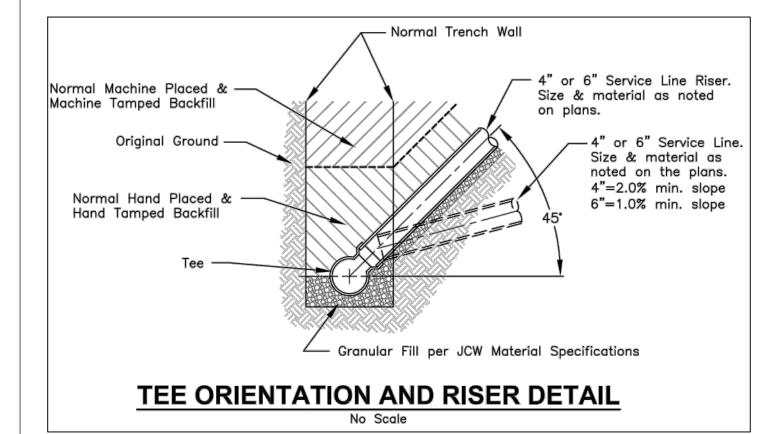
PAVEMENT -6" SELECT SOIL WHEN BEHIND "D" X 2 (MIN.) UNDISTURBED CLEAN 1/2" ROCK BACKFILL (CA-5) -1. THIS DETAIL APPLIES TO ALL UTILITY INSTALLATIONS UNDER EXISTING

FULL DEPTH - SAW CUT

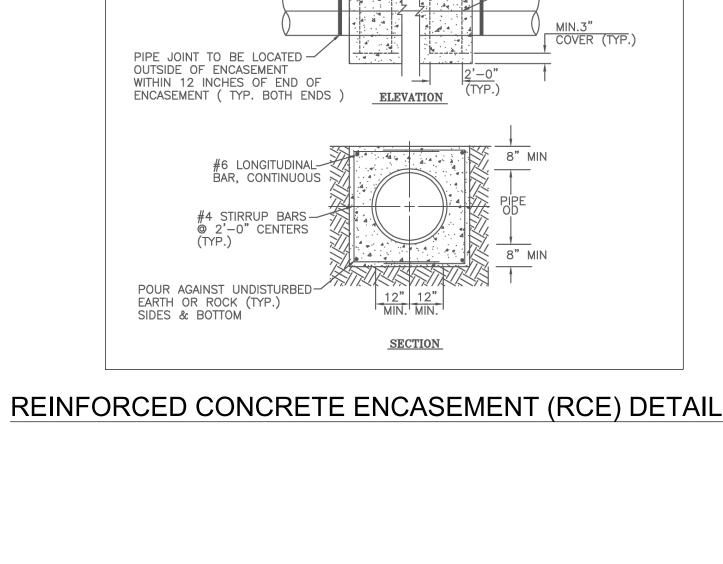
- 2. THE 1.0' EITHER SIDE OF ORIGINAL TRENCH SHALL NOT BE REMOVED UNTIL BACKFILL HAS BEEN PLACED AND COMPACTED.
- 3. ASPHALT SHALL COMPLY WITH CITY SPECIFICATIONS AS FOLLOWS: SURFACE COURSE APWA TYPE 3—01
- 4. BASE THICKNESS: 6" RESIDENTIAL OR EXISTING DEPTH,
 OR EXISTING DEPTH,
 WHICHEVER IS GREATER

BASE COURSE - APWA TYPE 1-01

- 5. ALL PIPES SHALL BE INSPECTED PRIOR TO BACKFILL. ALL PIPE COVERED PRIOR TO INSPECTION SHALL BE UNCOVERED AT THE CONTRACTOR'S EXPENSE.
- 6. UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER; TRENCH CONFORM TO THIS DETAIL. BACKFILL LIMITS FOR THIS DETAIL SHALL EXTEND TO THE TOP OF TRENCH AND 3 FT. BACK OF ALL CURBS, AND UNDER ANY SIDEWALKS, EXISTING OR PROPOSED.
- 7. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO APWA TECHNICAL SPECIFICATIONS.
- 8. ANY EXCAVATION LEFT OPEN OVERNIGHT ON ANY THOROUGHFARE OR COLLECTOR TYPE STREET SHALL BE SECURELY PLATED.
- NOTE: CONTRACTOR TO FOLLOW APWA 2100 SECTION 2102.4 EXCAVATION, TRENCHING, AND BACKFILLING FOR PIPE AND STRUCTURES.



LATERAL CONNECTION DETAILS (TO PROPOSED)



MIX NO. A 543-1-4

SANITARY LATERAL PROFILE DETAIL

