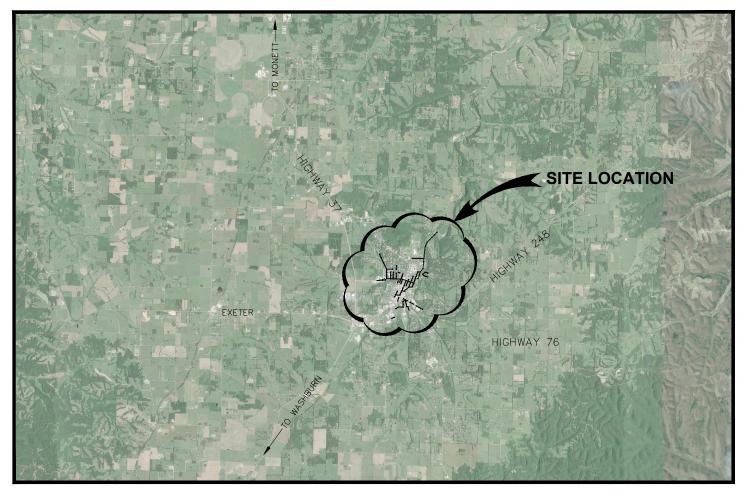
CASSVILLE WASTEWATER COLLECTION SYSTEM IMPROVEMENTS CASSVILLE, MISSOURI

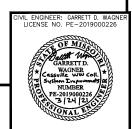


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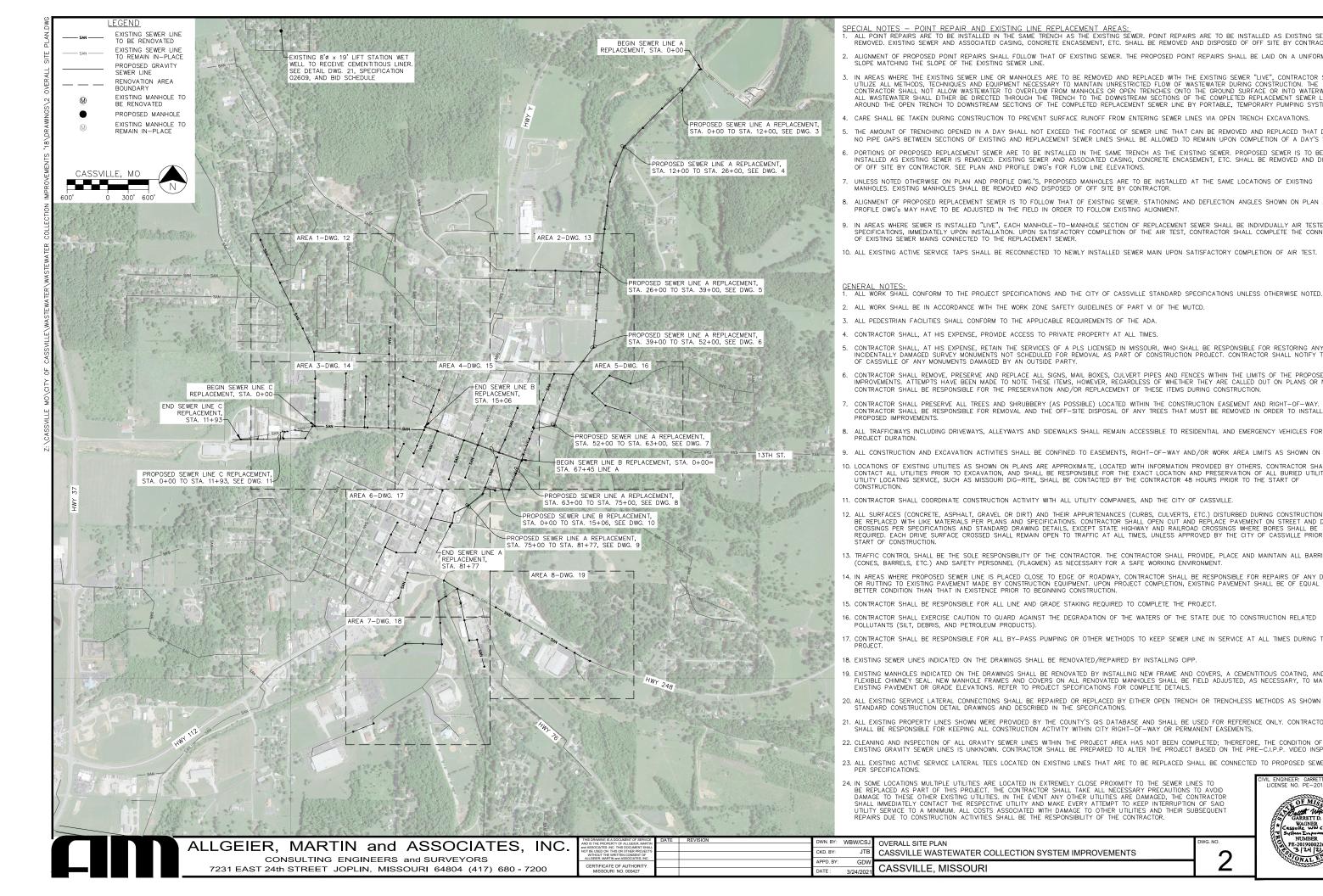
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CONSULTING ENGINEERS and SURVEYORS	NC.	NOT BE USED ON THIS OF OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF ALL GEFER MARTIN and ASSOCIATES. INC.			CKD. BY:	JTB	CASSVILLE WASTEWATER COLLECTI
	-	CERTIFICATE OF AUTHORITY			APPD. BY:	GDW	
7231 EAST 24th STREET JOPLIN, MISSOURI 64804 (417) 680 - 7200	0	MISSOURI NO. 000427			DATE :	3/24/2021	CASSVILLE, MISSOURI

SASSVILLE WASTEWATER COLLECTION SYSTEM IMPROVEMENTS CASSVILLE, MISS



ECTION SYSTEM IMPROVEMENTS

VG. NO.



<u>SPECIAL NOTES - POINT REPAIR AND EXISTING LINE REPLACEMENT AREAS:</u>

ALL POINT REPAIRS ARE TO BE INSTALLED IN THE SAME TRENCH AS THE EXISTING SEWER. POINT REPAIRS ARE TO BE INSTALLED AS EXISTING SEWER IS REMOVED. EXISTING SEWER AND ASSOCIATED CASING, CONCRETE ENCASEMENT, ETC. SHALL BE REMOVED AND DISPOSED OF OFF SITE BY CONTRACTOR.

2. ALIGNMENT OF PROPOSED POINT REPAIRS SHALL FOLLOW THAT OF EXISTING SEWER. THE PROPOSED POINT REPAIRS SHALL BE LAID ON A UNIFORM SLOPE MATCHING THE SLOPE OF THE EXISTING SEWER LINE.

3. IN AREAS WHERE THE EXISTING SEWER LINE OR MANHOLES ARE TO BE REMOVED AND REPLACED WITH THE EXISTING SEWER "LIVE", CONTRACTOR SHALL UTILIZE ALL METHODS, TECHNIQUES AND EQUIPMENT NECESSARY TO MAINTAIN UNRESTRICTED FLOW OF WASTEWATER DURING CONSTRUCTION. THE CONTRACTOR SHALL NOT ALLOW WASTEWATER TO OVERFLOW FROM MANHOLES OR OPEN TRENCHES ONTO THE GROUND SURFACE OR INTO WATERWAYS. ALL WASTEWATER SHALL EITHER BE DIRECTED THROUGH THE TRENCH TO THE DOWNSTREAM SECTIONS OF THE COMPLETED REPLACEMENT SEWER LINE, OR AROUND THE OPEN TRENCH TO DOWNSTREAM SECTIONS OF THE COMPLETED REPLACEMENT SEWER LINE BY PORTABLE, TEMPORARY PUMPING SYSTEMS.

4. CARE SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT SURFACE RUNOFF FROM ENTERING SEWER LINES VIA OPEN TRENCH EXCAVATIONS.

THE AMOUNT OF TRENCHING OPENED IN A DAY SHALL NOT EXCEED THE FOOTAGE OF SEWER LINE THAT CAN BE REMOVED AND REPLACED THAT DAY. NO PIPE GAPS BETWEEN SECTIONS OF EXISTING AND REPLACEMENT SEWER LINES SHALL BE ALLOWED TO REMAIN UPON COMPLETION OF A DAY'S WORK.

PORTIONS OF PROPOSED REPLACEMENT SEWER ARE TO BE INSTALLED IN THE SAME TRENCH AS THE EXISTING SEWER. PROPOSED SEWER IS TO B INSTALLED AS EXISTING SEWER IS REMOVED. EXISTING SEWER AND ASSOCIATED CASING, CONCRETE ENCASEMENT, ETC. SHALL BE REMOVED AND DISPOSED

7. UNLESS NOTED OTHERWISE ON PLAN AND PROFILE DWG.'S, PROPOSED MANHOLES ARE TO BE INSTALLED AT THE SAME LOCATIONS OF EXISTING MANHOLES. EXISTING MANHOLES SHALL BE REMOVED AND DISPOSED OF OFF SITE BY CONTRACTOR.

ALIGNMENT OF PROPOSED REPLACEMENT SEWER IS TO FOLLOW THAT OF EXISTING SEWER. STATIONING AND DEFLECTION ANGLES SHOWN ON PLAN AND PROFILE DWG'S MAY HAVE TO BE ADJUSTED IN THE FIELD IN ORDER TO FOLLOW EXISTING ALIGNMENT.

9. IN AREAS WHERE SEWER IS INSTALLED "LIVE". EACH MANHOLE-TO-MANHOLE SECTION OF REPLACEMENT SEWER SHALL BE INDIVIDUALLY AIR TESTED. PER SPECIFICATIONS, IMMEDIATELY UPON INSTALLATION. UPON SATISFACTORY COMPLETION OF THE AIR TEST, CONTRACTOR SHALL COMPLETE THE CONNECTION OF EXISTING SEWER MAINS CONNECTED TO THE REPLACEMENT SEWER.

10. ALL EXISTING ACTIVE SERVICE TAPS SHALL BE RECONNECTED TO NEWLY INSTALLED SEWER MAIN UPON SATISFACTORY COMPLETION OF AIR TEST.

5. CONTRACTOR SHALL, AT HIS EXPENSE, RETAIN THE SERVICES OF A PLS LICENSED IN MISSOURI, WHO SHALL BE RESPONSIBLE FOR RESTORING ANY INCIDENTALLY DAMAGED SURVEY MONUMENTS NOT SCHEDULED FOR REMOVAL AS PART OF CONSTRUCTION PROJECT. CONTRACTOR SHALL NOTIFY THE CITY OF CASSVILLE OF ANY MONUMENTS DAMAGED BY AN OUTSIDE PARTY.

6. CONTRACTOR SHALL REMOVE, PRESERVE AND REPLACE ALL SIGNS, MAIL BOXES, CULVERT PIPES AND FENCES WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENTS. ATTEMPTS HAVE BEEN MADE TO NOTE THESE ITEMS, HOWEVER, REGARDLESS OF WHETHER THEY ARE CALLED OUT ON PLANS OR NOT, CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION AND/OR REPLACEMENT OF THESE ITEMS DURING CONSTRUCTION.

7. CONTRACTOR SHALL PRESERVE ALL TREES AND SHRUBBERY (AS POSSIBLE) LOCATED WITHIN THE CONSTRUCTION EASEMENT AND RIGHT-OF-WAY. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND THE OFF-SITE DISPOSAL OF ANY TREES THAT MUST BE REMOVED IN ORDER TO INSTALL THE

8. ALL TRAFFICWAYS INCLUDING DRIVEWAYS, ALLEYWAYS AND SIDEWALKS SHALL REMAIN ACCESSIBLE TO RESIDENTIAL AND EMERGENCY VEHICLES FOR

9. ALL CONSTRUCTION AND EXCAVATION ACTIVITIES SHALL BE CONFINED TO EASEMENTS, RIGHT-OF-WAY AND/OR WORK AREA LIMITS AS SHOWN ON DWG'S

10. LOCATIONS OF EXISTING UTILITIES AS SHOWN ON PLANS ARE APPROXIMATE, LOCATED WITH INFORMATION PROVIDED BY OTHERS. CONTRACTOR SHALL CONTACT ALL UTILITIES PRIOR TO EXCAVATION, AND SHALL BE RESPONSIBLE FOR THE EXACT LOCATION AND PRESERVATION OF ALL BURIED UTILITY LINES. UTILITY LOCATING SERVICE, SUCH AS MISSOURI DIG-RITE, SHALL BE CONTACTED BY THE CONTRACTOR 48 HOURS PRIOR TO THE START OF

11. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY WITH ALL UTILITY COMPANIES, AND THE CITY OF CASSVILLE

12. ALL SURFACES (CONCRETE, ASPHALT, GRAVEL OR DIRT) AND THEIR APPURTENANCES (CURBS, CULVERTS, ETC.) DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS PER PLANS AND SPECIFICATIONS. CONTRACTOR SHALL OPEN CUT AND REPLACE PAVEMENT ON STREET AND DRIVE CROSSINGS PER SPECIFICATIONS AND STANDARD DRAWING DETAILS, EXCEPT STATE HIGHWAY AND RAILROAD CROSSINGS WHERE BORES SHALL BE REQUIRED. EACH DRIVE SURFACE CROSSED SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES, UNLESS APPROVED BY THE CITY OF CASSVILLE PRIOR TO

13. TRAFFIC CONTROL SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE, PLACE AND MAINTAIN ALL BARRIERS (CONES, BARRELS, ETC.) AND SAFETY PERSONNEL (FLAGMEN) AS NECESSARY FOR A SAFE WORKING ENVIRONMENT.

14. IN AREAS WHERE PROPOSED SEWER LINE IS PLACED CLOSE TO EDGE OF ROADWAY, CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS OF ANY DAMAGE OR RUTTING TO EXISTING PAVEMENT MADE BY CONSTRUCTION EQUIPMENT. UPON PROJECT COMPLETION, EXISTING PAVEMENT SHALL BE OF EQUAL TO OR

16. CONTRACTOR SHALL EXERCISE CAUTION TO GUARD AGAINST THE DEGRADATION OF THE WATERS OF THE STATE DUE TO CONSTRUCTION RELATED

17. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BY-PASS PUMPING OR OTHER METHODS TO KEEP SEWER LINE IN SERVICE AT ALL TIMES DURING THE PROJECT.

19. EXISTING MANHOLES INDICATED ON THE DRAWINGS SHALL BE RENOVATED BY INSTALLING NEW FRAME AND COVERS, A CEMENTITIOUS COATING, AND A FLEXIBLE CHIMNEY SEAL. NEW MANHOLE FRAMES AND COVERS ON ALL RENOVATED MANHOLES SHALL BE FIELD ADJUSTED, AS NECESSARY, TO MATCH EXISTING PAVEMENT OR GRADE ELEVATIONS. REFER TO PROJECT SPECIFICATIONS FOR COMPLETE DETAILS.

20. ALL EXISTING SERVICE LATERAL CONNECTIONS SHALL BE REPAIRED OR REPLACED BY EITHER OPEN TRENCH OR TRENCHLESS METHODS AS SHOWN ON THE STANDARD CONSTRUCTION DETAIL DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.

21. ALL EXISTING PROPERTY LINES SHOWN WERE PROVIDED BY THE COUNTY'S GIS DATABASE AND SHALL BE USED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL CONSTRUCTION ACTIVITY WITHIN CITY RIGHT-OF-WAY OR PERMANENT EASEMENTS.

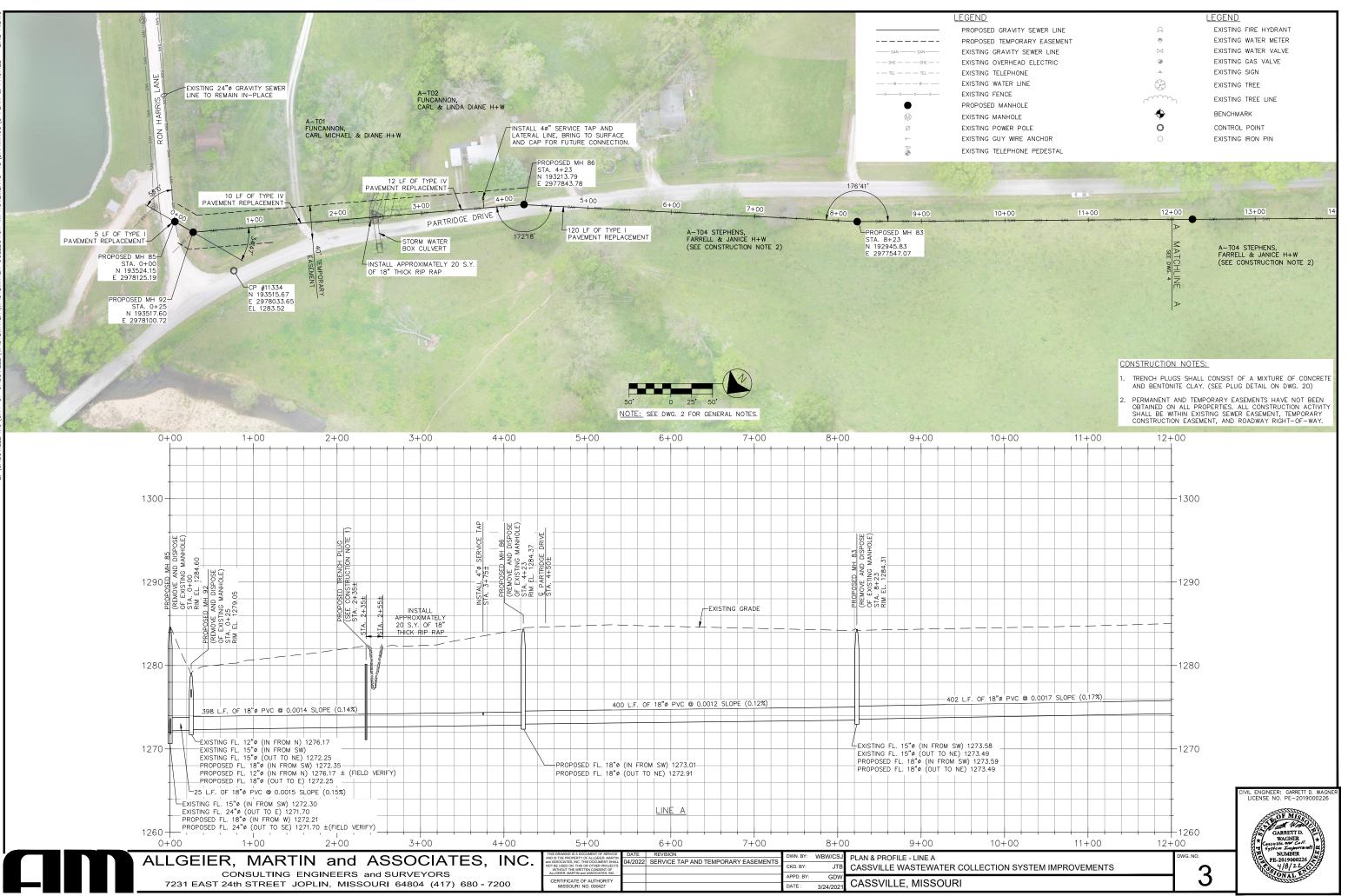
22. CLEANING AND INSPECTION OF ALL GRAVITY SEWER LINES WITHIN THE PROJECT AREA HAS NOT BEEN COMPLETED; THEREFORE, THE CONDITION OF EXISTING GRAVITY SEWER LINES IS UNKNOWN. CONTRACTOR SHALL BE PREPARED TO ALTER THE PROJECT BASED ON THE PRE-C.I.P.P. VIDEO INSPECTION

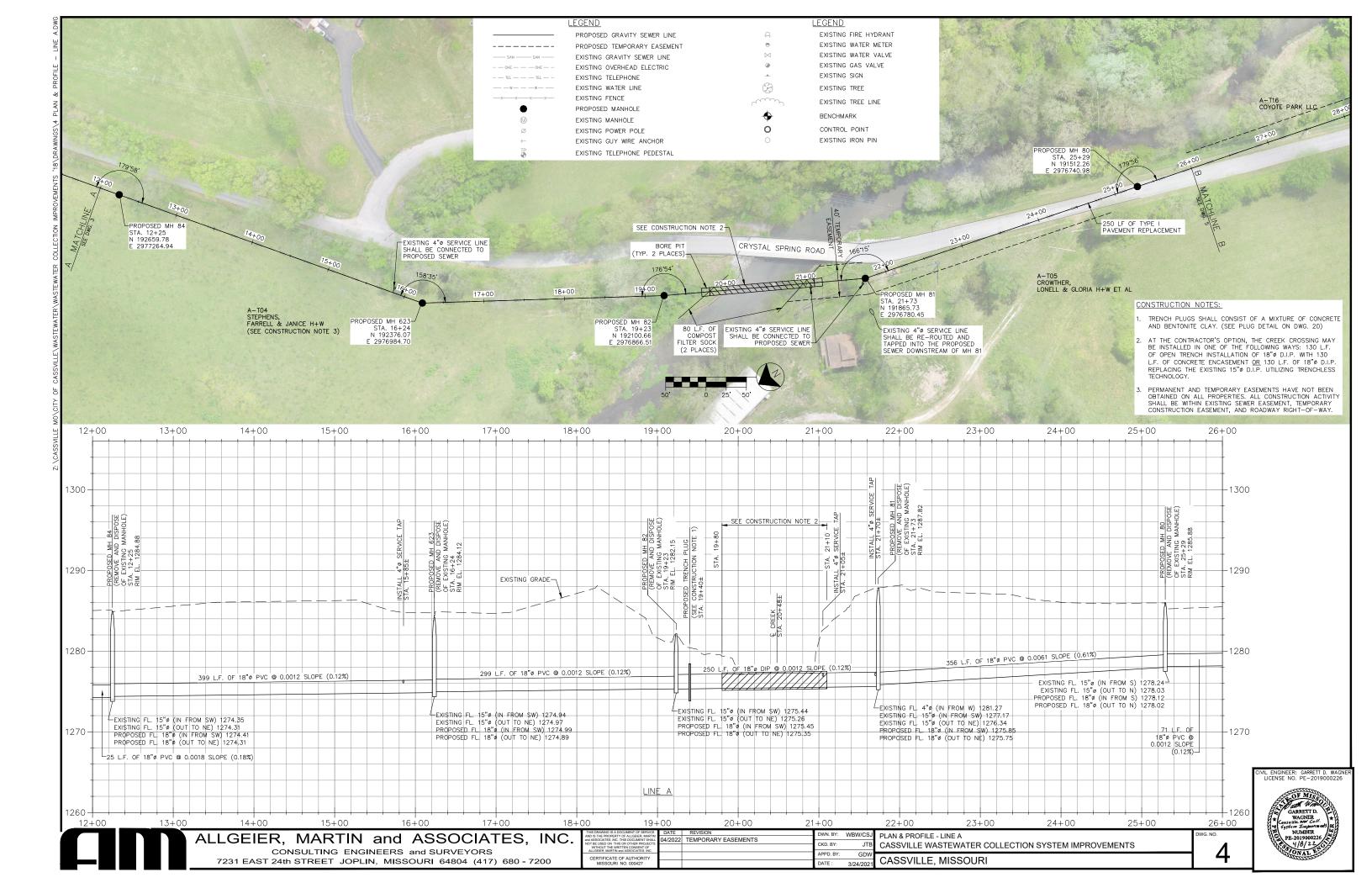
23. ALL EXISTING ACTIVE SERVICE LATERAL TEES LOCATED ON EXISTING LINES THAT ARE TO BE REPLACED SHALL BE CONNECTED TO PROPOSED SEWER LINE

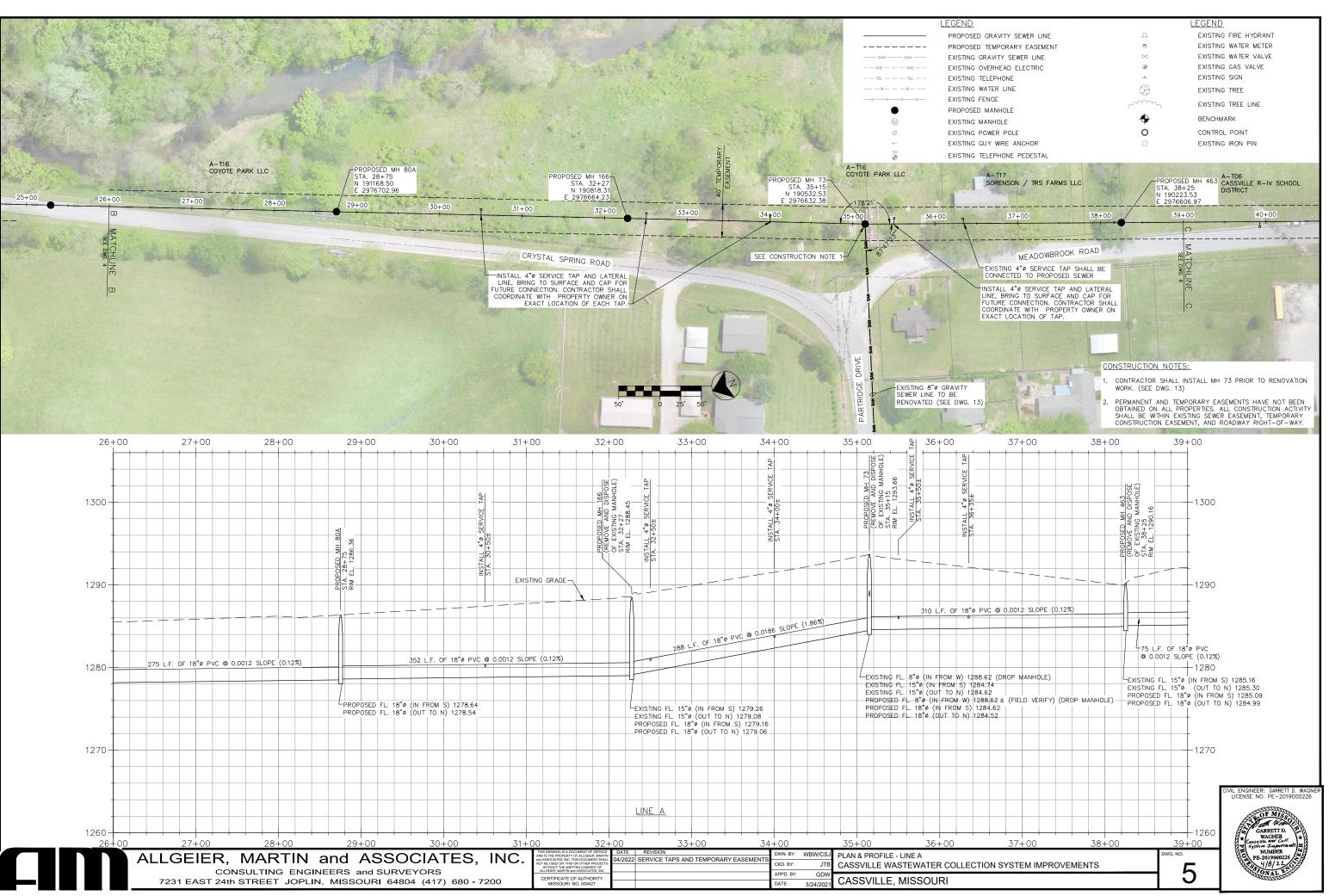
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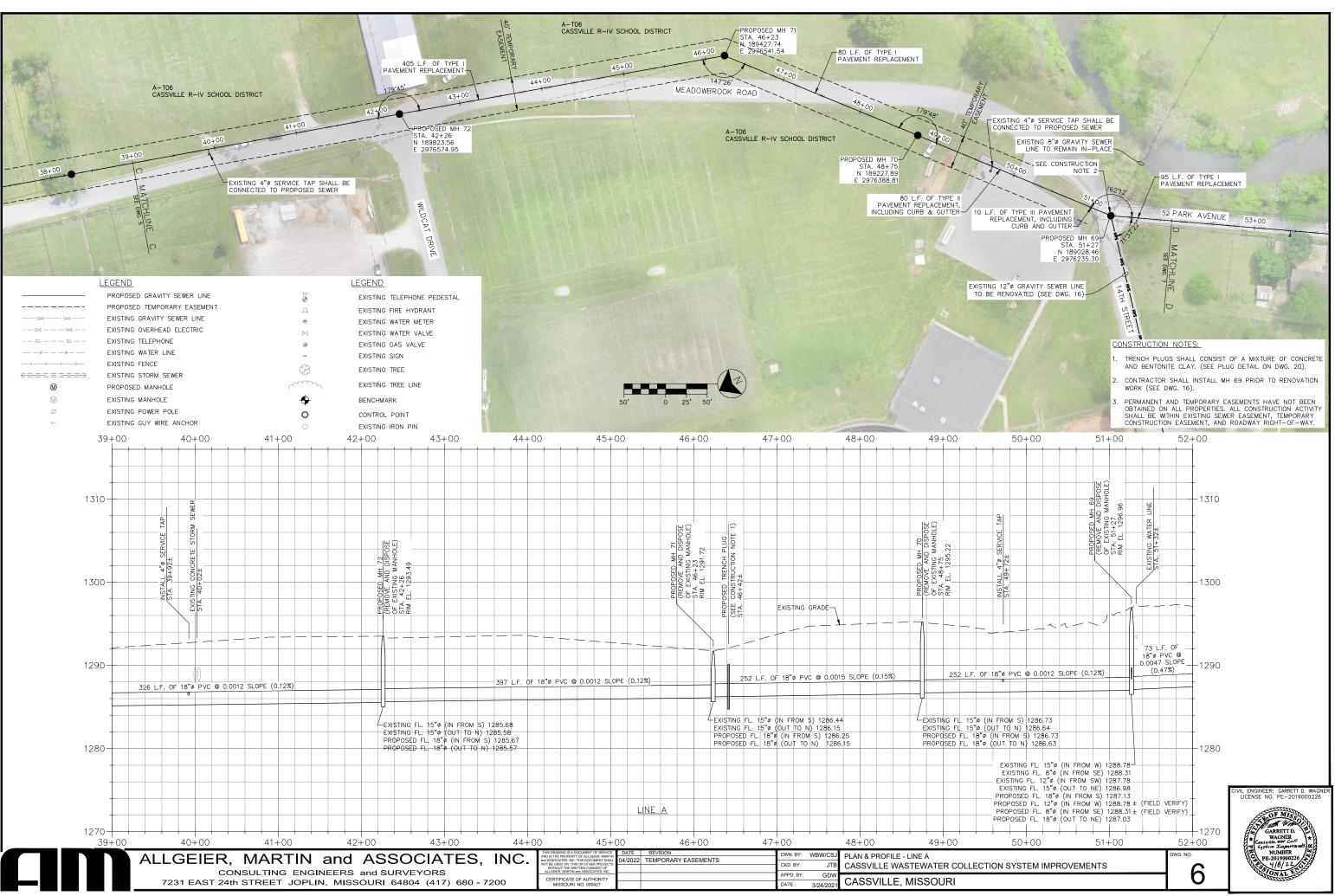
24. IN SOME LOCATIONS MULTIPLE UTILITIES ARE LOCATED IN EXTREMELY CLOSE PROXIMITY TO THE SEWER LINES TO BE REPLACED AS PART OF THIS PROJECT. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THESE OTHER EXISTING UTILITIES. IN THE EVENT ANY OTHER UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE RESPECTIVE UTILITY AND MAKE EVERY ATTEMPT TO KEEP INTERUPTION OF SAID UTILITY SERVICE TO A MINIMUM, ALL COSTS ASSOCIATED WITH DAMAGE TO OTHER UTILITIES AND THEIR SUBSEQUENT DEPONDENT OF THE RESPECTIVE UTILITY AND MAKE EVERY ATTEMPT TO CONTROL THE SUBSEQUENT OF THE ADVISION OF THE RESPECTIVE UTILITY AND MAKE TO OTHER UTILITIES AND THEIR SUBSEQUENT OF THE ADVISION OF THE RESPECTIVE UTILITY AND MAKE TO OTHER UTILITIES AND THEIR SUBSEQUENT OF THE ADVISION OF T

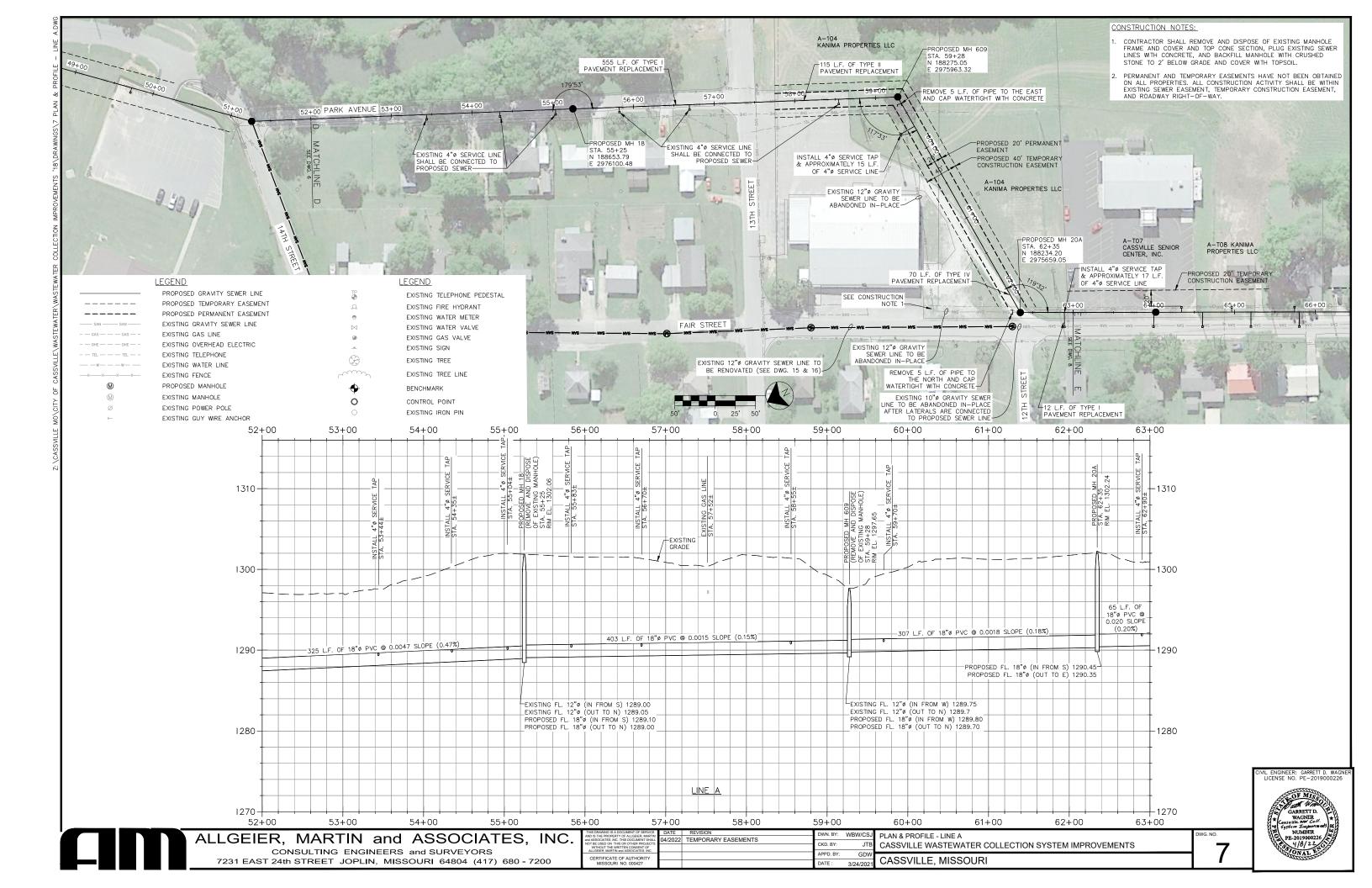


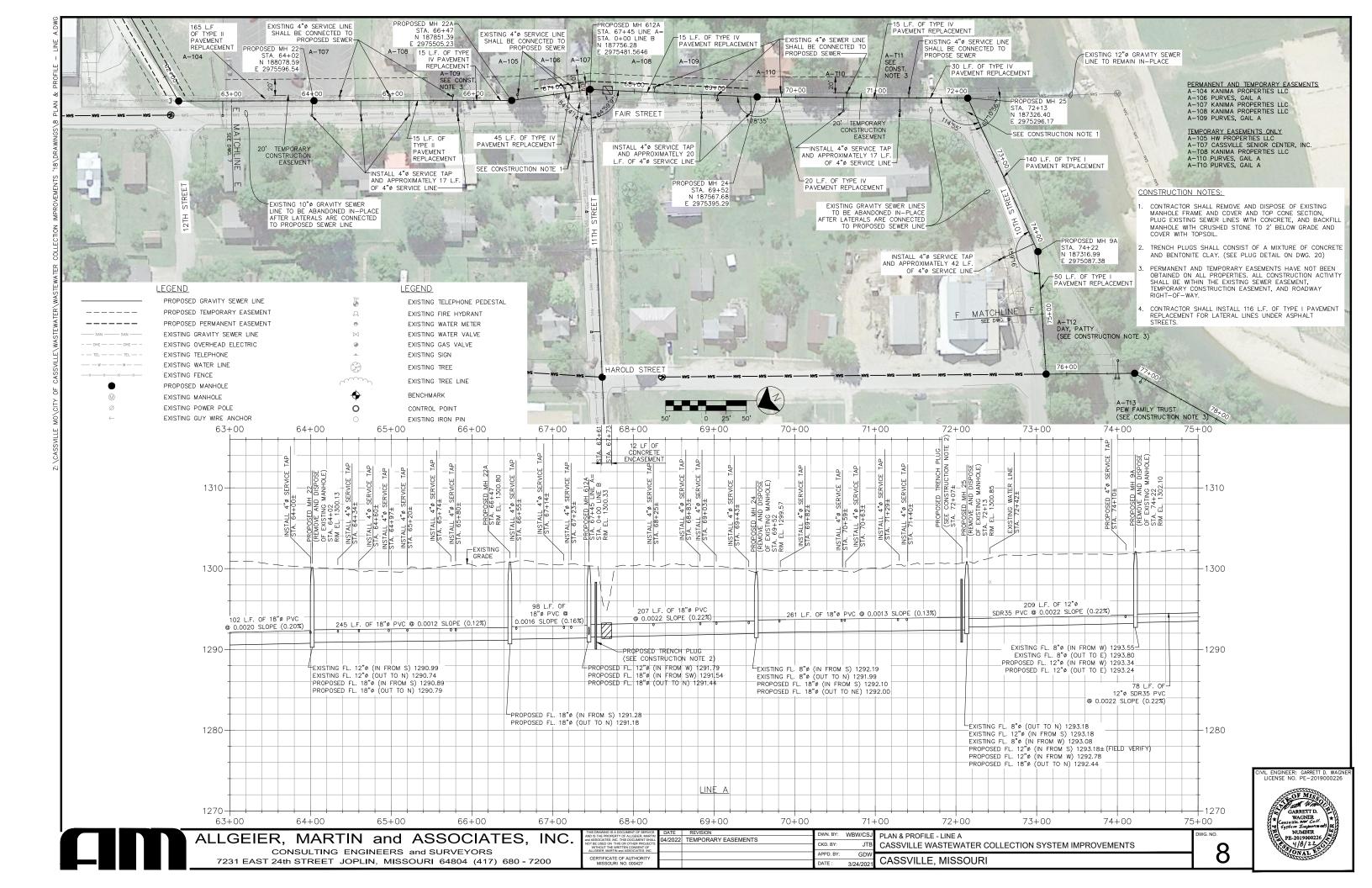


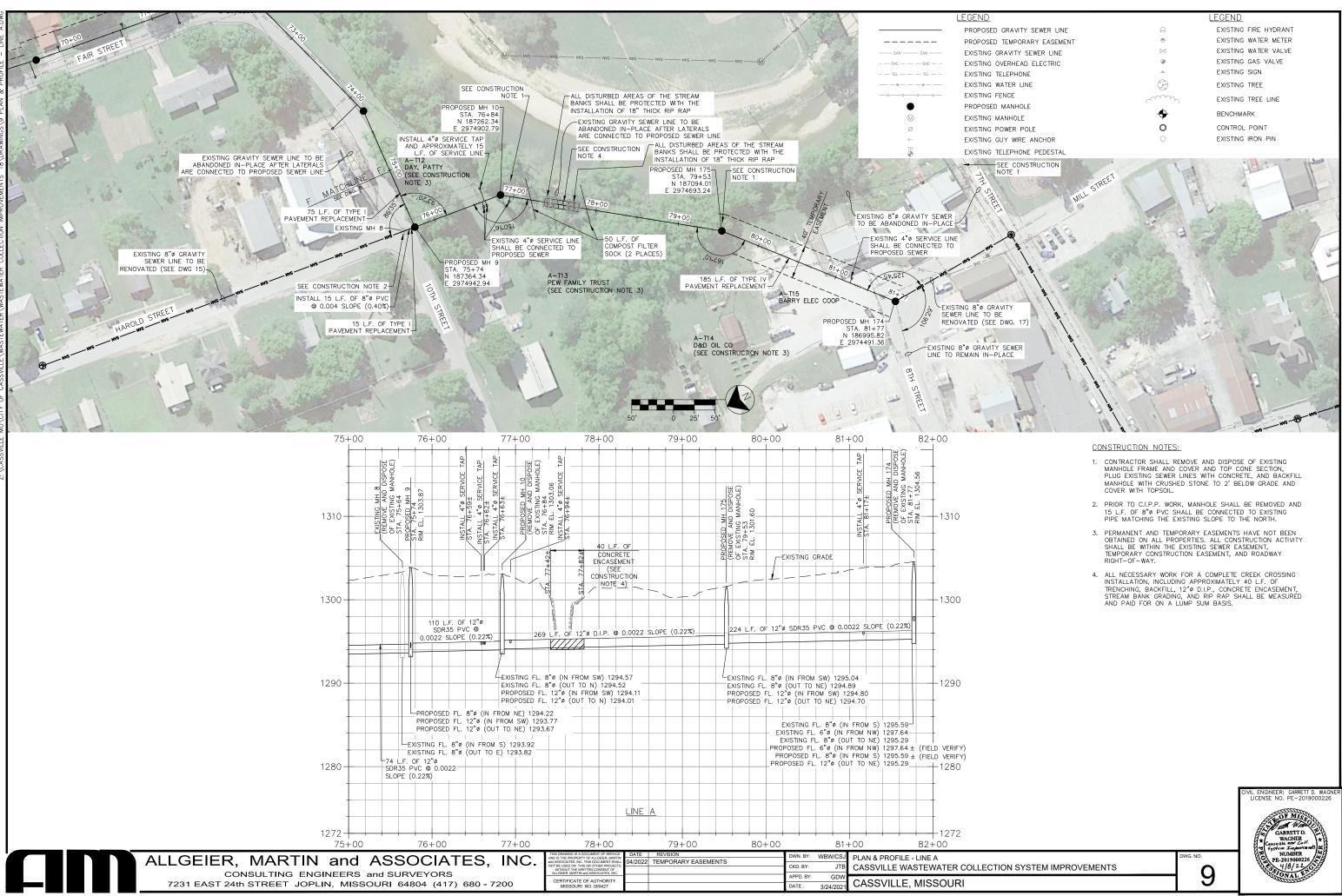




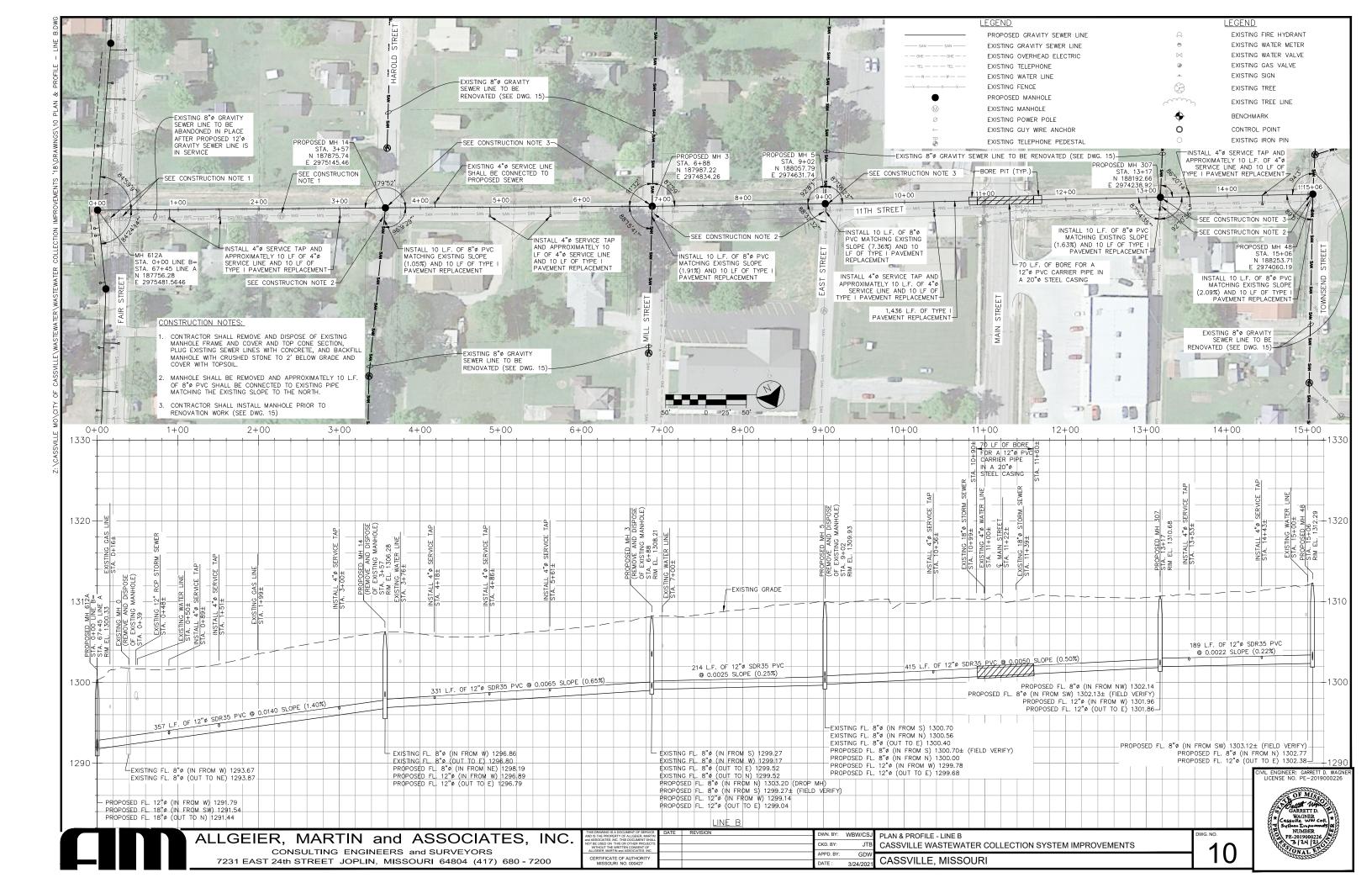


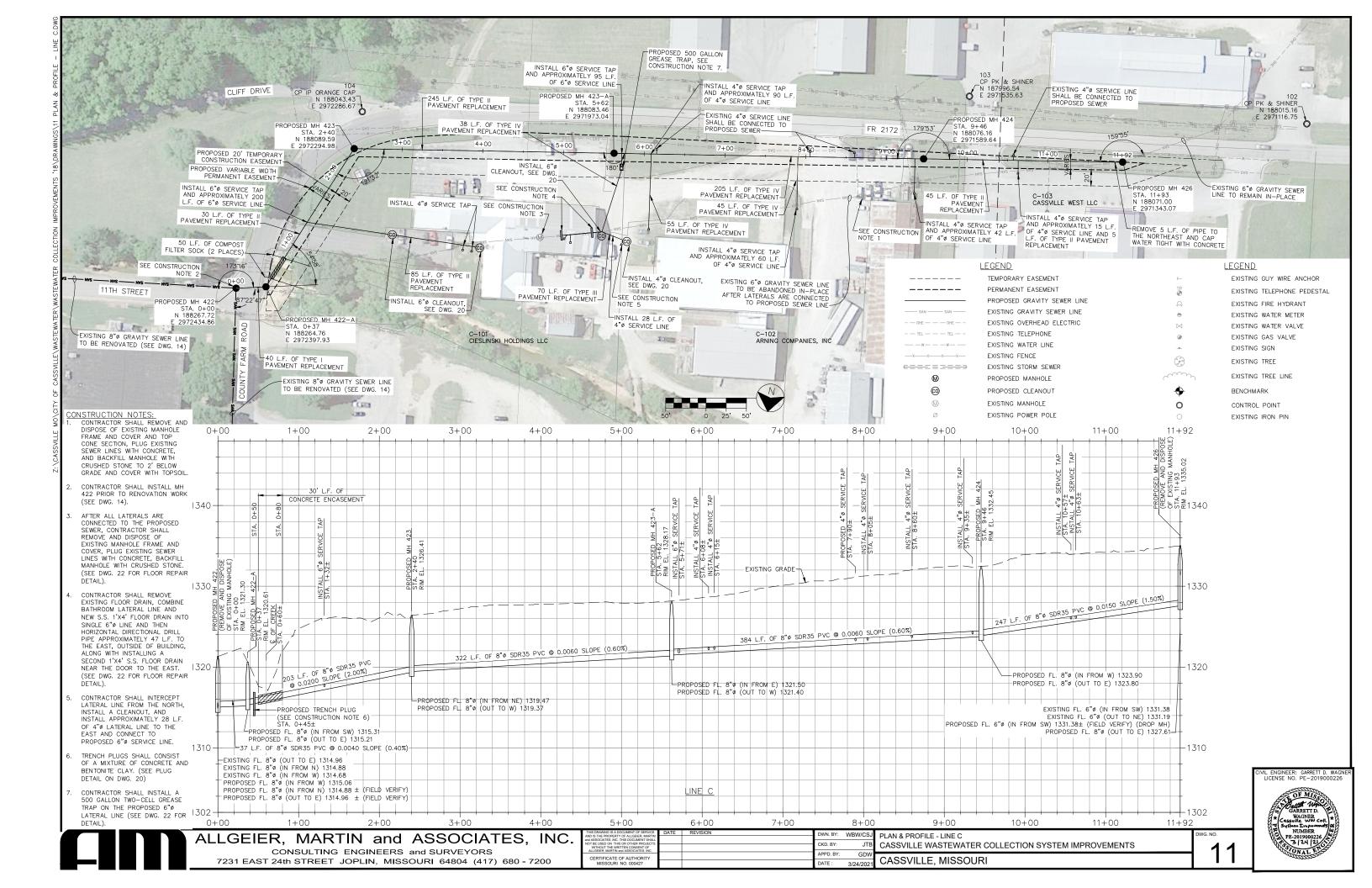


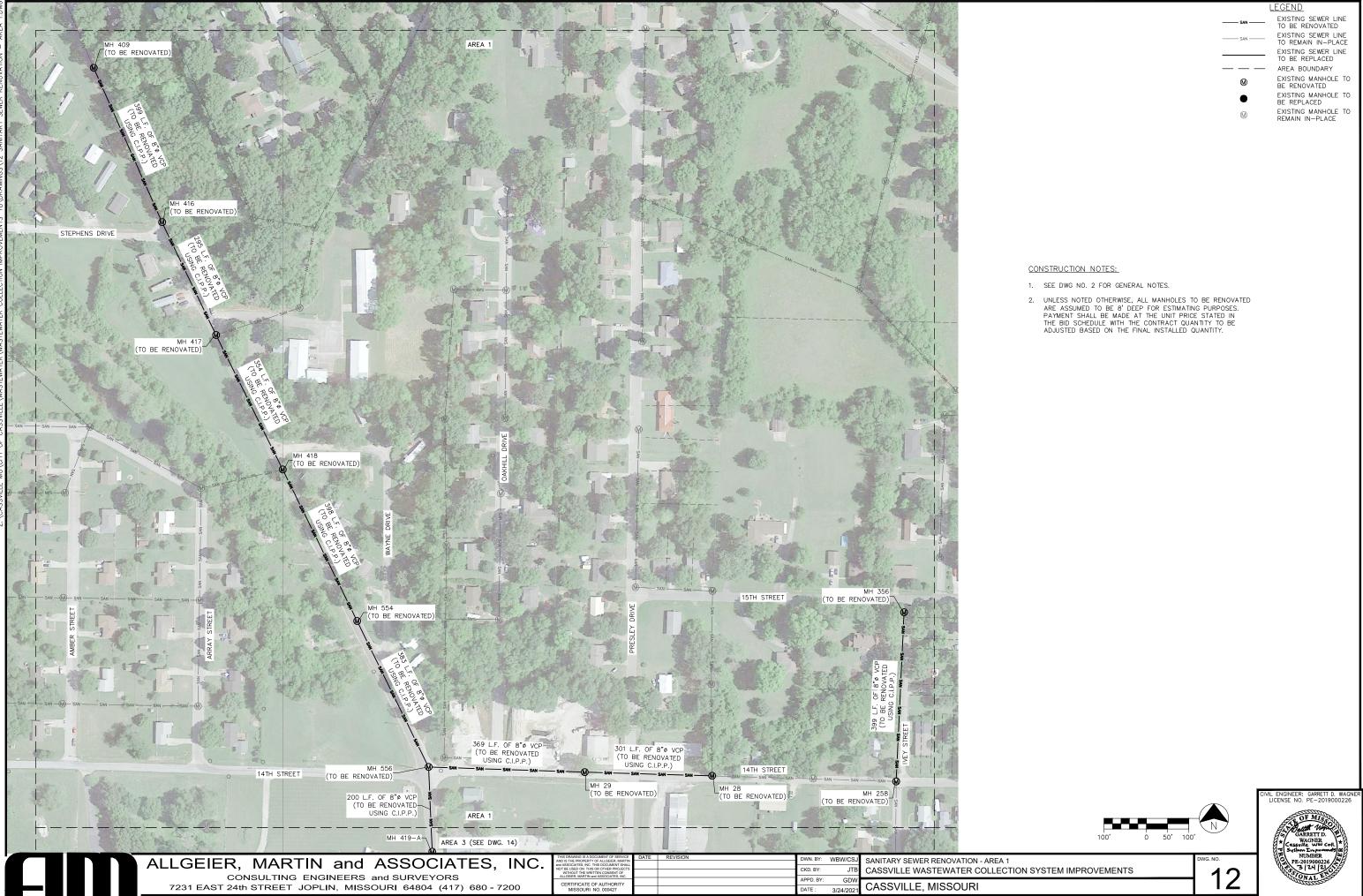




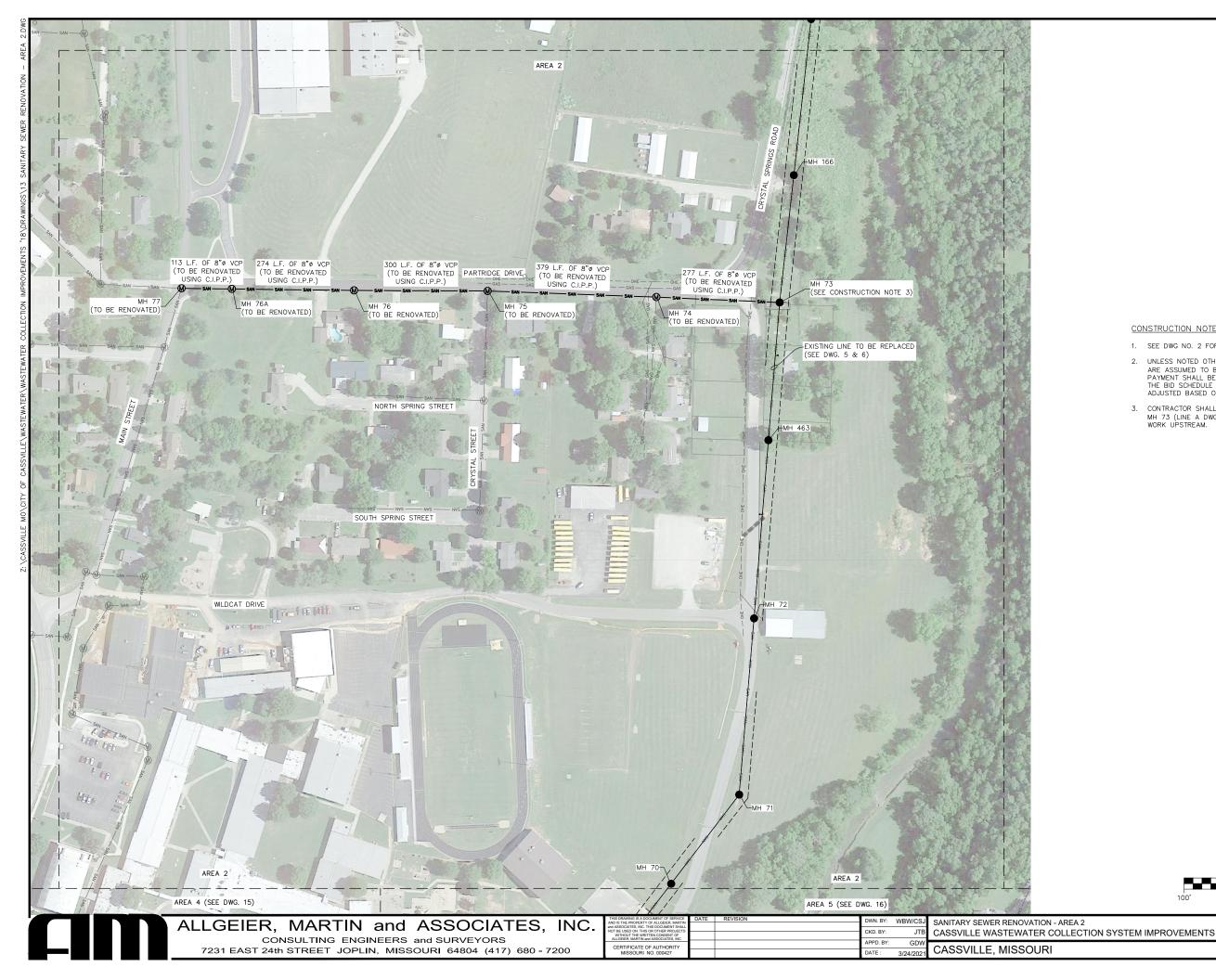
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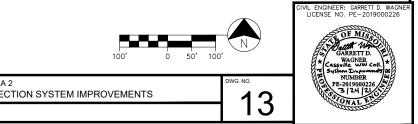
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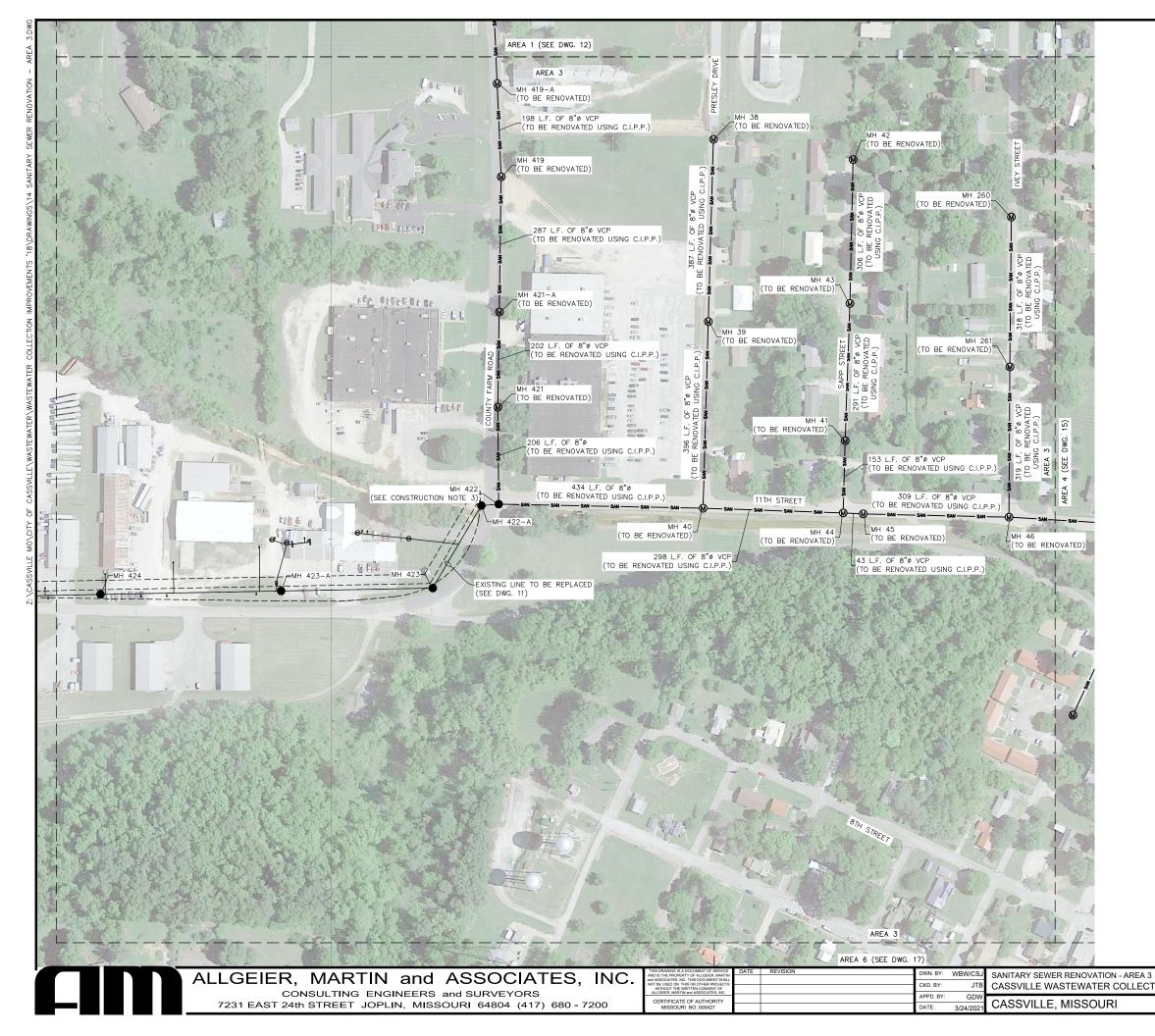


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- 1. SEE DWG NO. 2 FOR GENERAL NOTES.
- 2. UNLESS NOTED OTHERWISE, ALL MANHOLES TO BE RENOVATED UNLESS NOTED OTHERWISE, ALL MANHOLES TO BE RENOVAL ARE ASSUMED TO BE & DEEP FOR ESTIMATING PURPOSES. PAYMENT SHALL BE MADE AT THE UNIT PRICE STATED IN THE BID SCHEDULE WITH THE CONTRACT QUANTITY TO BE ADJUSTED BASED ON THE FINAL INSTALLED QUANTITY.
- CONTRACTOR SHALL SEQUENCE CONSTRUCTION SUCH THAT MH 73 (LINE A DWG. 5) IS INSTALLED PRIOR TO C.I.P.P. WORK UPSTREAM.



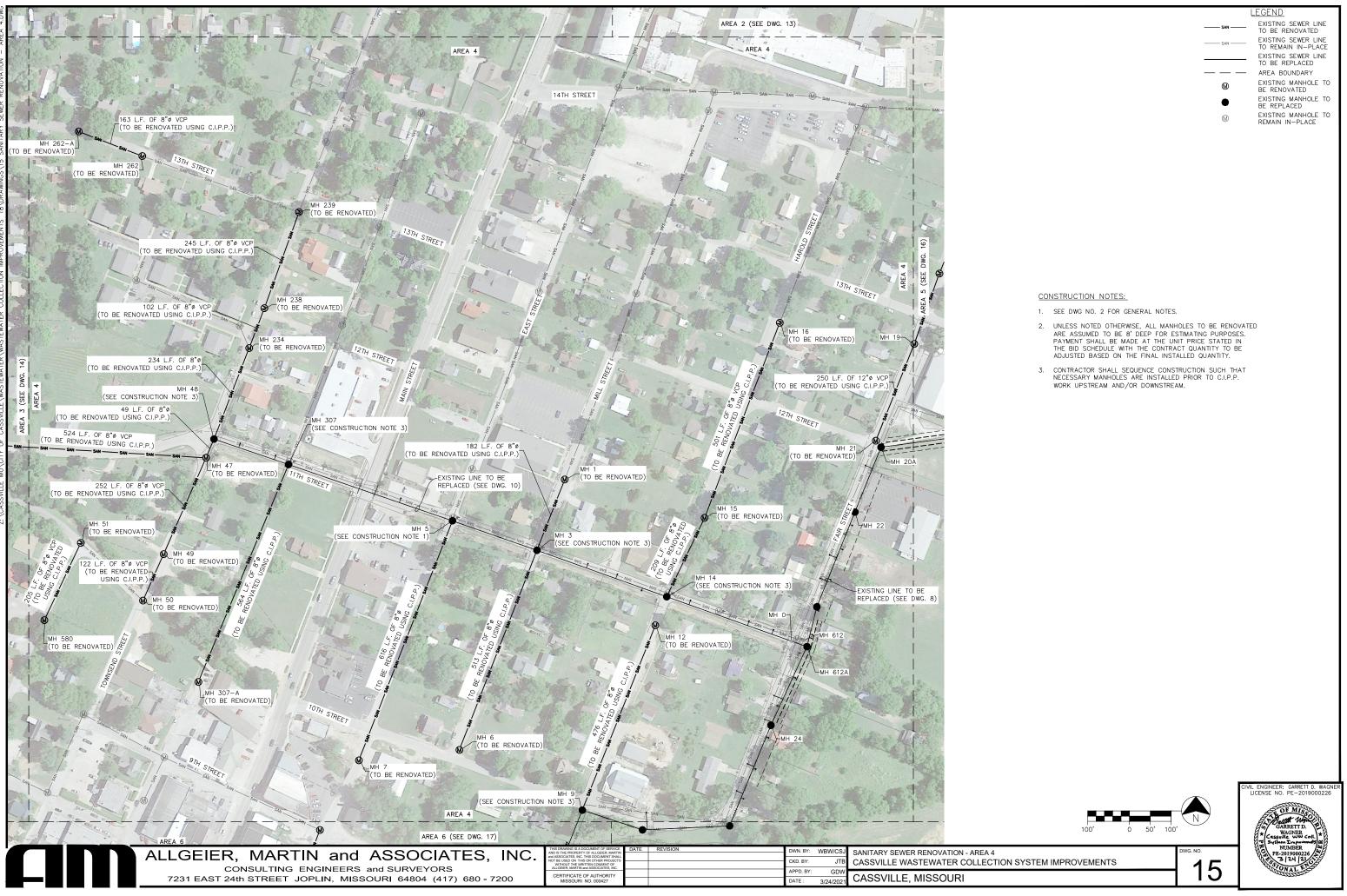


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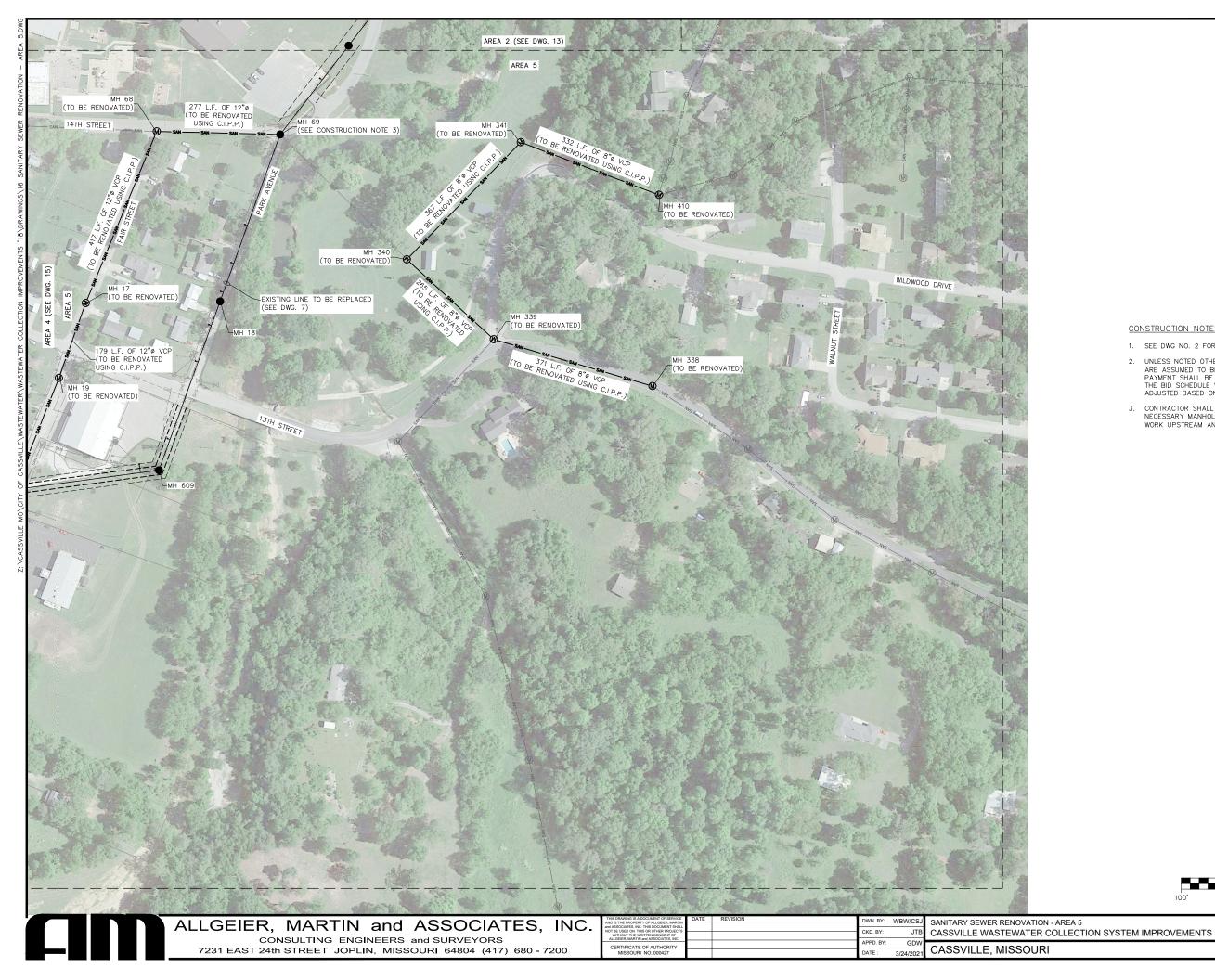
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- 1. SEE DWG NO. 2 FOR GENERAL NOTES.
- 2. UNLESS NOTED OTHERWISE, ALL MANHOLES TO BE RENOVATED ARE ASSUMED TO BE 8' DEEP FOR ESTIMATING PURPOSES. PAYMENT SHALL BE MADE AT THE UNIT PRICE STATED IN THE BID SCHEDULE WITH THE CONTRACT QUANTITY TO BE ADJUSTED BASED ON THE FINAL INSTALLED QUANTITY.
- CONTRACTOR SHALL SEQUENCE CONSTRUCTION SUCH THAT MH 422 (LINE C DWG. 11) IS REPLACED PRIOR TO C.I.P.P. WORK UPSTREAM AND DOWNSTREAM.





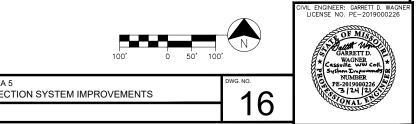
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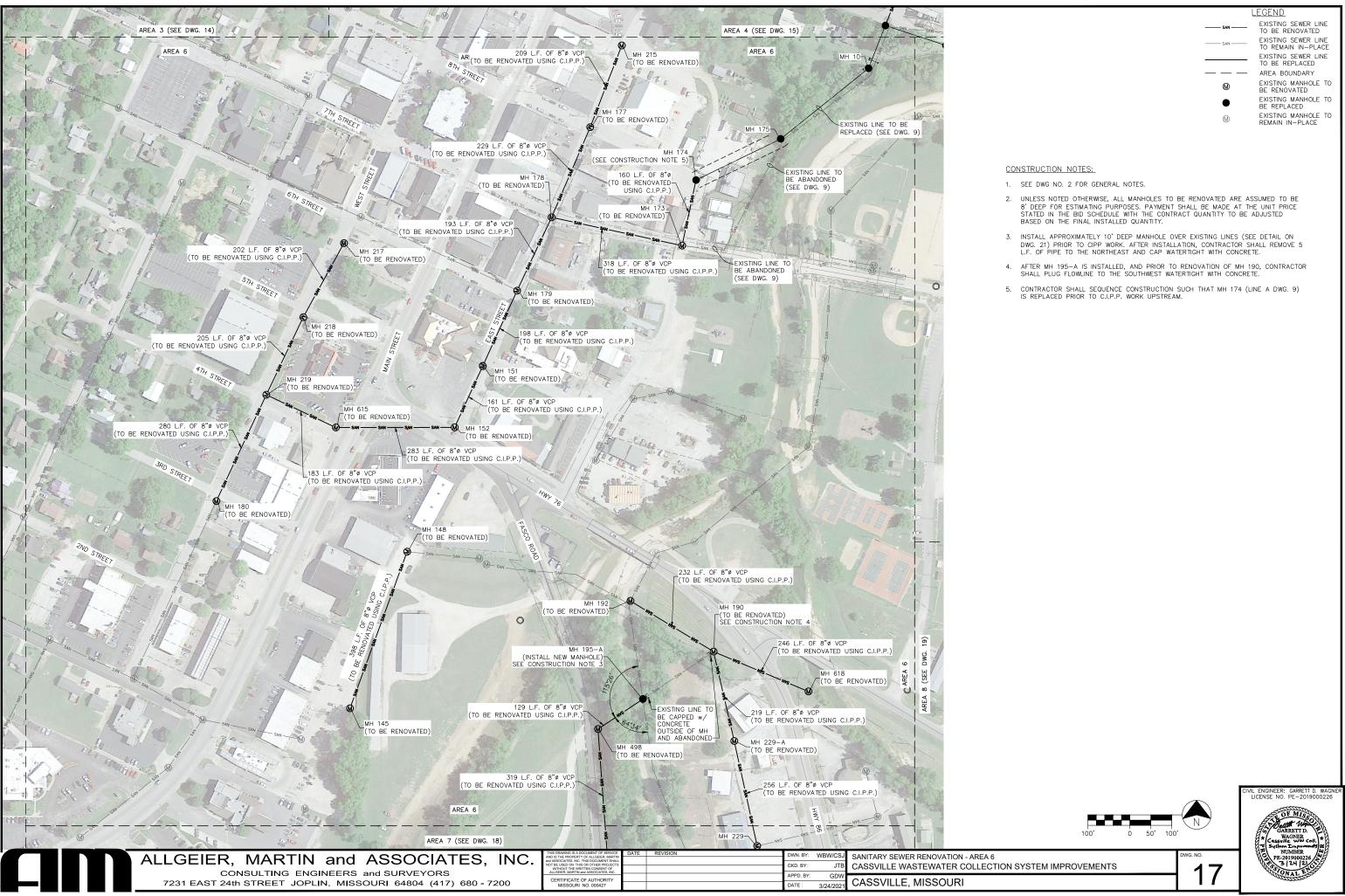


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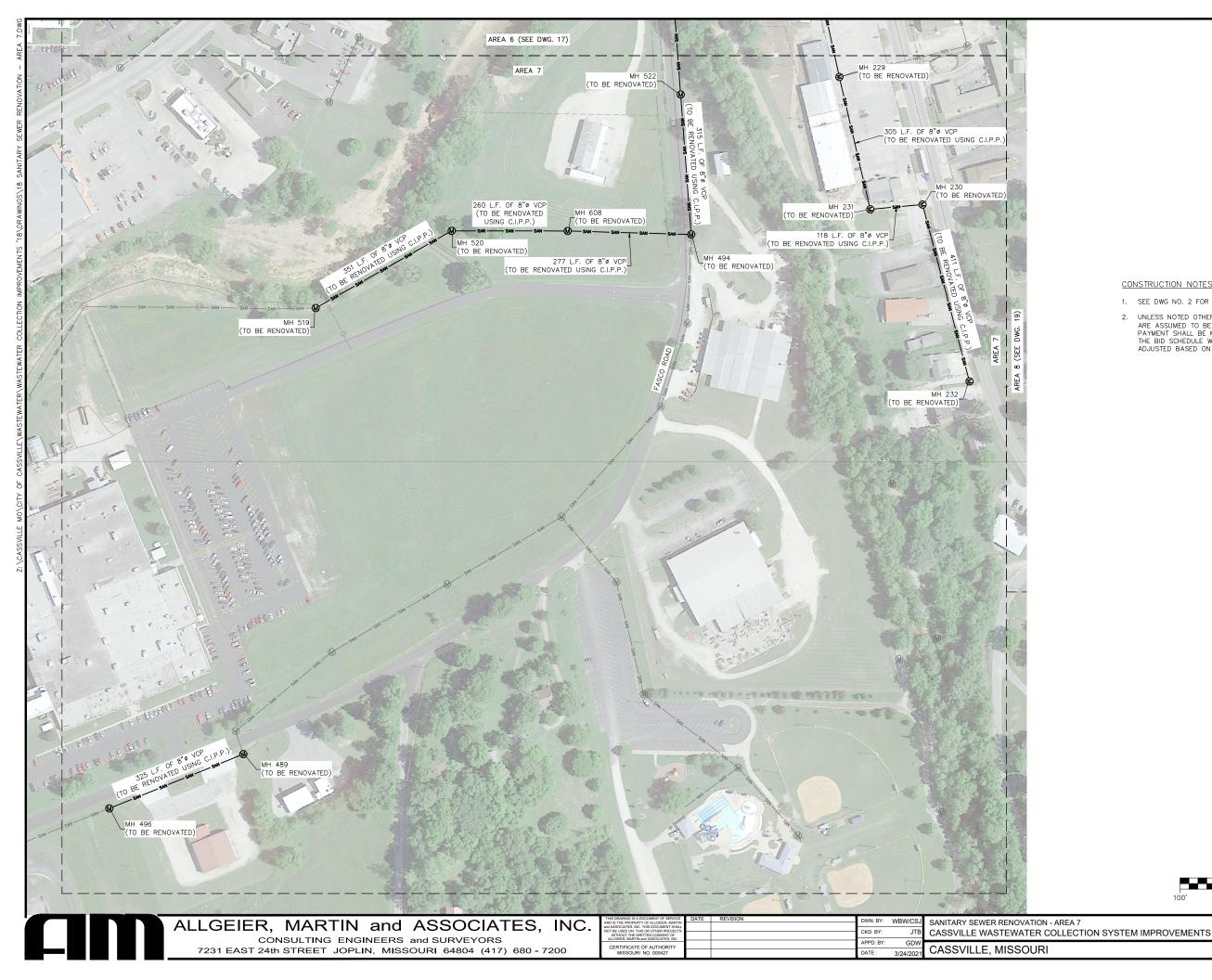
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- 2. UNLESS NOTED OTHERWISE, ALL MANHOLES TO BE RENOVATED ARE ASSUMED TO BE 8' DEEP FOR ESTIMATING PURPOSES. PAYMENT SHALL BE MADE AT THE UNIT PRICE STATED IN THE BID SCHEDULE WITH THE CONTRACT QUANTITY TO BE ADJUSTED BASED ON THE FINAL INSTALLED QUANTITY.
- CONTRACTOR SHALL SEQUENCE CONSTRUCTION SUCH THAT NECESSARY MANHOLES ARE INSTALLED PRIOR TO C.I.P.P. WORK UPSTREAM AND/OR DOWNSTREAM.





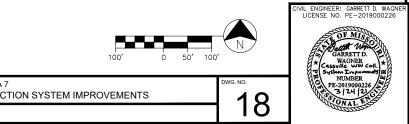
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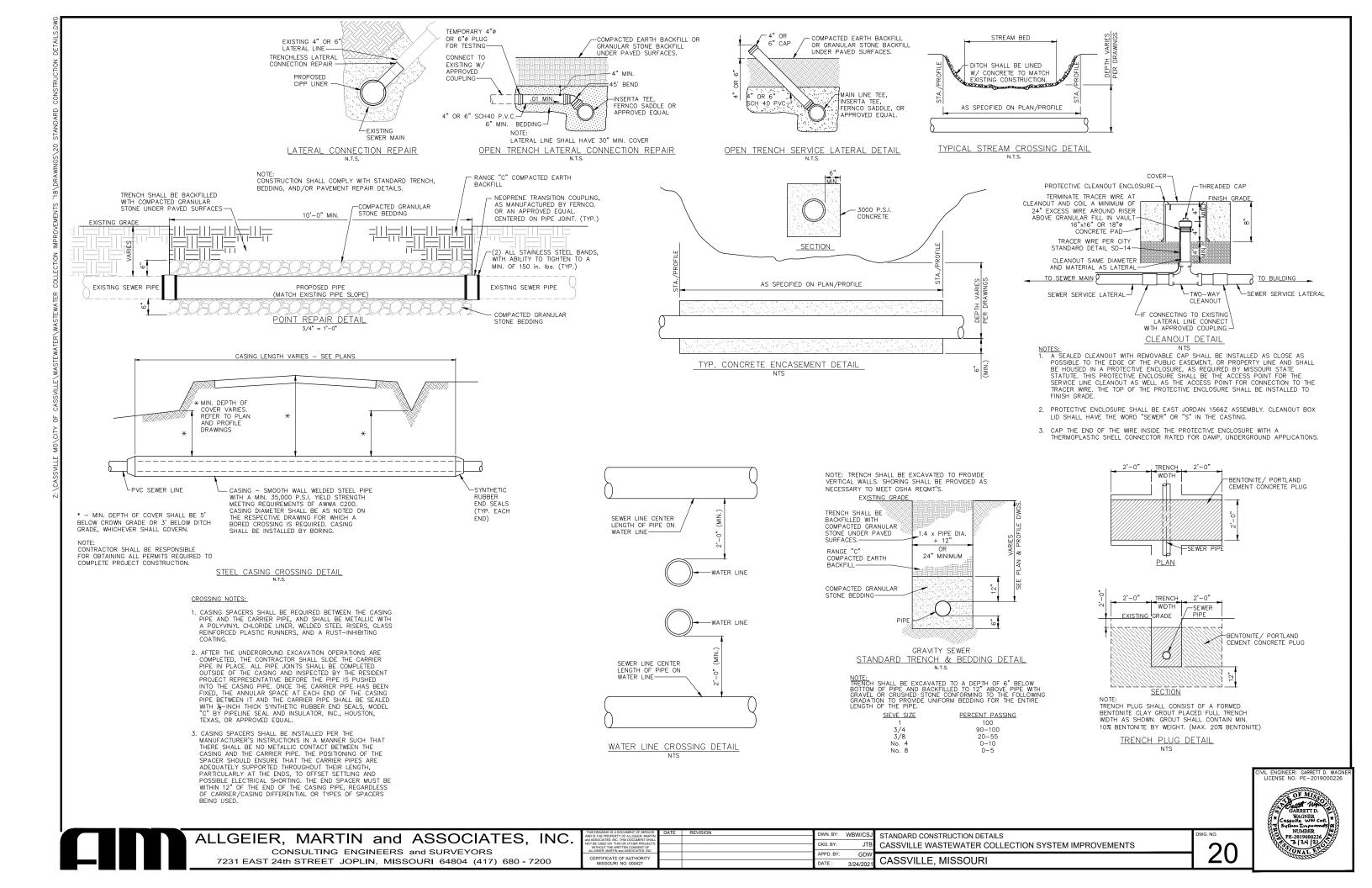


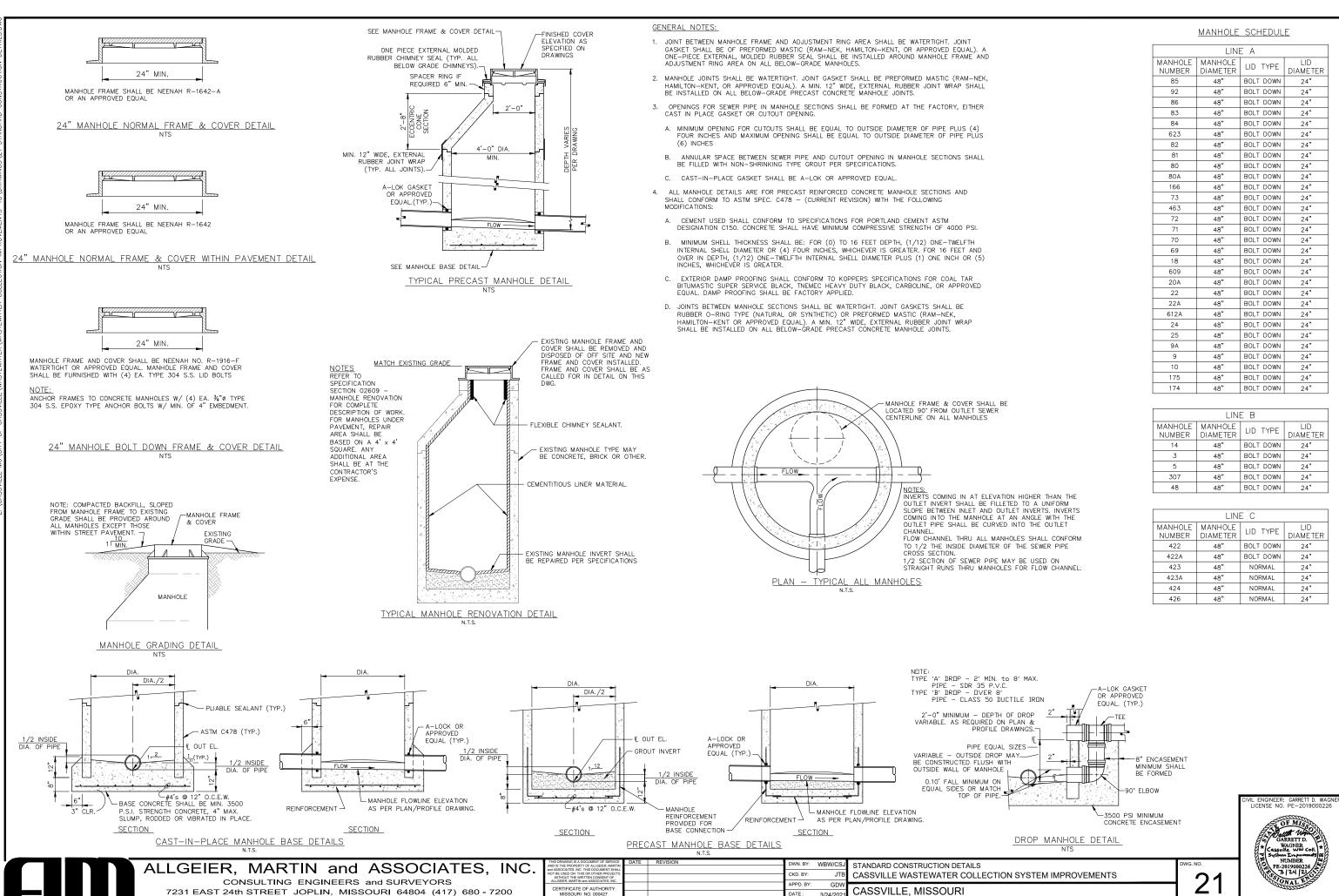
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ATE ·

3/24/202

	LINE A				
MANHOLE NUMBER	MANHOLE DIAMETER	LID TYPE	LID DIAMETER		
85	48"	BOLT DOWN	24"		
92	48"	BOLT DOWN	24"		
86	48"	BOLT DOWN	24"		
83	48"	BOLT DOWN	24"		
84	48"	BOLT DOWN	24"		
623	48"	BOLT DOWN	24"		
82	48"	BOLT DOWN	24"		
81	48"	BOLT DOWN	24"		
80	48"	BOLT DOWN	24"		
80A	48"	BOLT DOWN	24"		
166	48"	BOLT DOWN	24"		
73	48"	BOLT DOWN	24"		
463	48"	BOLT DOWN	24"		
72	48"	BOLT DOWN	24"		
71	48"	BOLT DOWN	24"		
70	48"	BOLT DOWN	24"		
69	48"	BOLT DOWN	24"		
18	48"	BOLT DOWN	24"		
609	48"	BOLT DOWN	24"		
20A	48"	BOLT DOWN	24"		
22	48"	BOLT DOWN	24"		
22A	48"	BOLT DOWN	24"		
612A	48"	BOLT DOWN	24"		
24	48"	BOLT DOWN	24"		
25	48"	BOLT DOWN	24"		
9A	48"	BOLT DOWN	24"		
9	48"	BOLT DOWN	24"		
10	48"	BOLT DOWN	24"		
175	48"	BOLT DOWN	24"		
174	48"	BOLT DOWN	24"		

LINE B				
MANHOLE NUMBER	MANHOLE DIAMETER	LID TYPE	LID DIAMETER	
14	48"	BOLT DOWN	24"	
3	48"	BOLT DOWN	24"	
5	48"	BOLT DOWN	24"	
307	48"	BOLT DOWN	24"	
48	48"	BOLT DOWN	24"	

LINE C				
MANHOLE NUMBER	MANHOLE DIAMETER	LID TYPE	LID DIAMETER	
422	48"	BOLT DOWN	24"	
422A	48"	BOLT DOWN	24"	
423	48"	NORMAL	24"	
423A	48"	NORMAL	24"	
424	48"	NORMAL	24"	
426	48"	NORMAL	24"	

