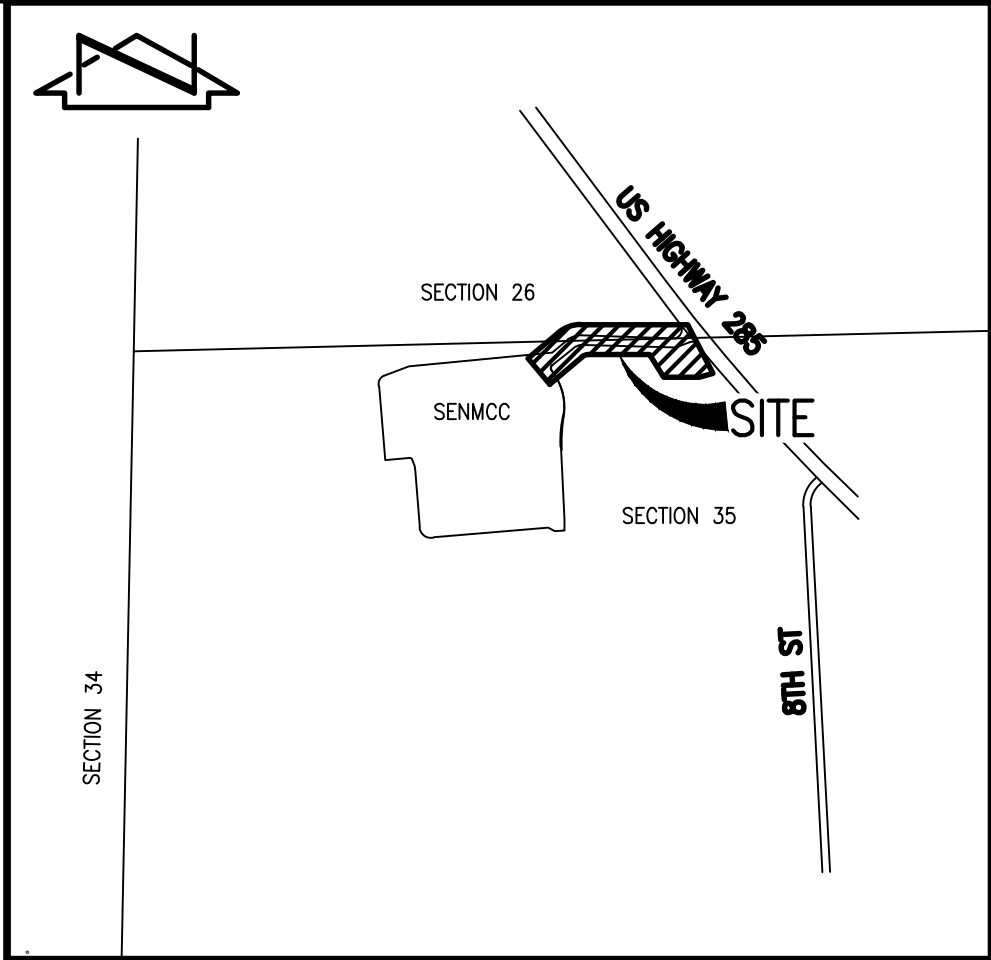


CONSTRUCTION PLANS  
for  
SOUTHEAST NEW MEXICO COLLEGE  
UNIVERSITY DRIVE SANITARY SEWER EXTENSION  
CARLSBAD, NEW MEXICO  
MARCH, 2025



INDEX OF DRAWINGS

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6	SECTIONS AND DETAILS



VICINITY MAP  
NOT TO SCALE: CARLSBAD

GENERAL NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR APPROVED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION – 1987, PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION. NMAPWA. (NMSPWC) (REVISED 12/ 06), AND THE CITY OF CARLSBAD NEW MEXICO PUBLIC INFRASTRUCTURE STANDARD SPECIFICATIONS–ADOPTED JULY 2019 (RES. NO. 2019–29).
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE–SPOTTING) OF EXISTING UTILITIES.
- UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY CONDUCTED BY THIS FIRM DATED 12/24/2024. THAT UTILITY SURVEY AND SUBSURFACE UTILITY ENGINEERING EFFORT IS NOT ALL–INCLUSIVE AND MAY NOT REPRESENT UTILITIES/INFRASTRUCTURE THAT HAVE BEEN ABANDONED–IN–PLACE, WERE INACCESSIBLE, OR OTHERWISE UNDETECTABLE DUE TO UNFORESEEN AND UNCONTROLLABLE SITE AND/OR UTILITY CONDITIONS. FURTHER, THAT UTILITY INVESTIGATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, NEW MEXICO EXCAVATION LAWS (NM811), MUNICIPAL AND LOCAL ORDINANCES, SITE SPECIFIC RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- ALL UTILITIES WITHIN THE PROJECT LIMITS THAT ARE RENDERED OBSOLETE AND / OR UNUSED AS A RESULT OF THIS PROJECT SHALL NOT BE ABANDONED IN PLACE, BUT SHALL INSTEAD BE COMPLETELY REMOVED WITHIN THE PROJECT AREA AND CAPPED AT THE PROJECT LIMITS, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT–OF–WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT–OF–WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- THE CONTRACTOR SHALL CONDUCT AND SCHEDULE WORK IN ORDER TO MINIMIZE TRAFFIC OBSTRUCTIONS AND OTHER INCONVENIENCES TO THE PUBLIC. TESTING, PURGING, TRANSFER OF SERVICE AND BACKFILL OF EACH SECTION OF LINE SHALL IMMEDIATELY FOLLOW THE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY OF CARLSBAD A MINIMUM OF FOURTEEN (14) CALENDAR DAYS PRIOR TO BEGINNING THE PROJECT.
- ALL MATERIALS USED IN THE CONSTRUCTION OF THE WORK ARE TO BE FURNISHED BY THE CONTRACTOR AT HIS OWN EXPENSE. THESE SPECIFICATIONS REQUIRE ALL MATERIALS TO BE NEW AND UNUSED AND UTILIZED IN SUCH A MANNER AS TO PRODUCE COMPLETE CONSTRUCTION THAT IS AUTHORIZED AND ACCEPTABLE IN EVERY DETAIL. ONLY MATERIALS CONFORMING TO THE REQUIREMENTS OF THESE SPECIFICATIONS WILL BE ACCEPTED AND USED IN THE WORK. MATERIALS SHALL BE STORED TO INSURE THE PRESERVATION OF THEIR QUALITY AND FITNESS FOR THE WORK.
- IF THE UTILITY IS LOCATED UNDER A PAVED SURFACE, THE UTILITY SHALL BE STUBBED OUT TO THE PROPERTY LINE AND MARKED ELECTRONICALLY FOR FUTURE LOCATION. AT THE CONTRACTOR'S EXPENSE, IF POSSIBLE DURING THE CONSTRUCTION SEQUENCE, THE CONTRACTOR SHALL "STAMP" THE NEW CURB & GUTTER AT THE CROSSING LOCATION WITH THE APPROPRIATE SYMBOL FOR THE UTILITY.
- LAYOUT OF WORK: THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERENCE TO THE LINES AND GRADES OF THE PLANS AND PROFILES AS DESIGNED BY THE ENGINEER.
- CLEANUP: THE CONTRACTOR SHALL MAINTAIN AND LEAVE THE PROJECT IN A CLEAN AND NEAT CONDITION.
- DENSITY FAILURES: THE COST OF ALL DENSITY FAILURES AND RETESTS SHALL BE BORNE BY THE CONTRACTOR. ALL DENSITY FAILURES SHALL BE RETESTED AND THE ACCOMPANYING PASSING DENSITY TEST SHALL BE SUBMITTED TO THE CITY.
- "AS BUILT/RECORD" DRAWINGS: THE CONTRACTOR SHALL PREPARE AN ACCURATE SET OF "AS BUILT/RECORD" DRAWINGS AND INCLUDE ALL TESTING RESULTS AND REPORTS FOR ALL WORK PERFORMED IN PUBLIC RIGHTS–OF–WAY AND FOR ALL WORK TO BE DEDICATED TO THE CITY. THE CONTRACTOR SHALL RECORD THEREON THE LOCATIONS, DEPTH, SIZE, TYPE OF MATERIAL, ANY OTHER PERTINENT DATA, AND ALL CHANGES MADE IN THE WORK THAT DIFFER FROM THE APPROVED CONSTRUCTION DRAWINGS. PRIOR TO ACCEPTANCE OF THE PROJECT BY THE CITY, THE CONTRACTOR SHALL PROVIDE: TWO (2) HARD COPIES, ONE (1) PDF FILE, AND ONE FILE.
- TRACER WIRE SHALL BE INSTALLED ON ALL NEW SEWER SERVICE AND MAIN LINES, REGARDLESS OF SIZE. TRACER BOXES SHALL BE A SNAKE PIT MAGNETIZED TRACER BOX, ROADWAY BOX OR APPROVED EQUAL AND SHALL BE INSTALLED OUTSIDE THE STREET PAVEMENT BUT WITHIN THE ROAD RIGHT–OF–WAY AS NEAR AS POSSIBLE TO THE MANHOLE OR AS DIRECTED BY THE CITY OF CARLSBAD. A 6" CONCRETE COLLAR (SAME AS WATER VALVE BOX) SHALL BE INSTALLED AT THE TRACER BOX. REFER TO CITY SPECIFICATIONS ARTICLE 8.9.
- ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION, LATEST EDITION.
- IF THE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK, AND/OR PAVING IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. WHEN ABUTTING NEW PAVEMENT TO EXISTING, THE CONTRACTOR SHALL CUT BACK THE EXISTING PAVING TO A STRAIGHT LINE IN ORDER TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. CURB AND GUTTER AND/OR PAVEMENT SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT AND WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL (CONTAMINATED OR OTHERWISE), ASPHALTIC PAVING, CONCRETE PAVING, ETC. SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
- A BORROW SITE FOR IMPORT MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A BORROW SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTION. THE CONTRACTOR SHALL SELECT AND USE METHODS WHICH SHALL NOT BE INJURIOUS OR DAMAGING TO THE EXISTING FACILITIES AND STRUCTURES WHICH SURROUND THE WORK AREAS.
- THE CONTRACTOR SHALL CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS IN ORDER TO PRESERVE THE EXISTING IMPROVEMENTS AND SO AS NOT TO INTERFERE WITH THE OPERATIONS OF THE EXISTING FACILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND/OR INSTALL PIPE SO AS TO NOT EXCEED RIGHT–OF–WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES OR IMPROVEMENTS. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- ALL FILL SHALL BE CLEAN, FREE FROM VEGETATION, DEBRIS, AND OTHER DELETERIOUS MATERIALS, AND SHALL NOT BE CONTAMINATED WITH HYDROCARBONS OR OTHER CHEMICAL CONTAMINANTS.
- ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% ASTM D–1557 UNLESS A GREATER COMPACTION REQUIREMENT IS OTHERWISE SPECIFIED.
- CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED–OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P–EXCAVATIONS.



2024.044.8

ENGINEERS STAMP & SIGNATURE

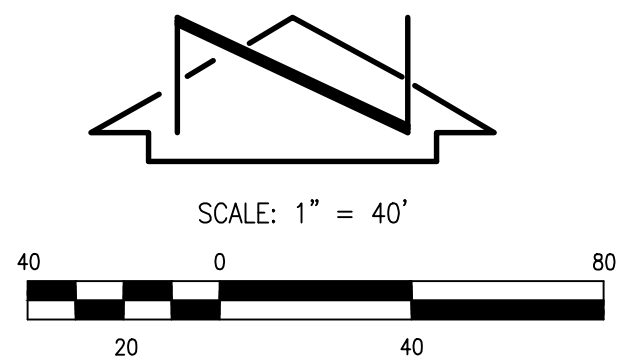


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APPROVED FOR CONSTRUCTION

City of Carlsbad Date

SHEET 1 OF 6



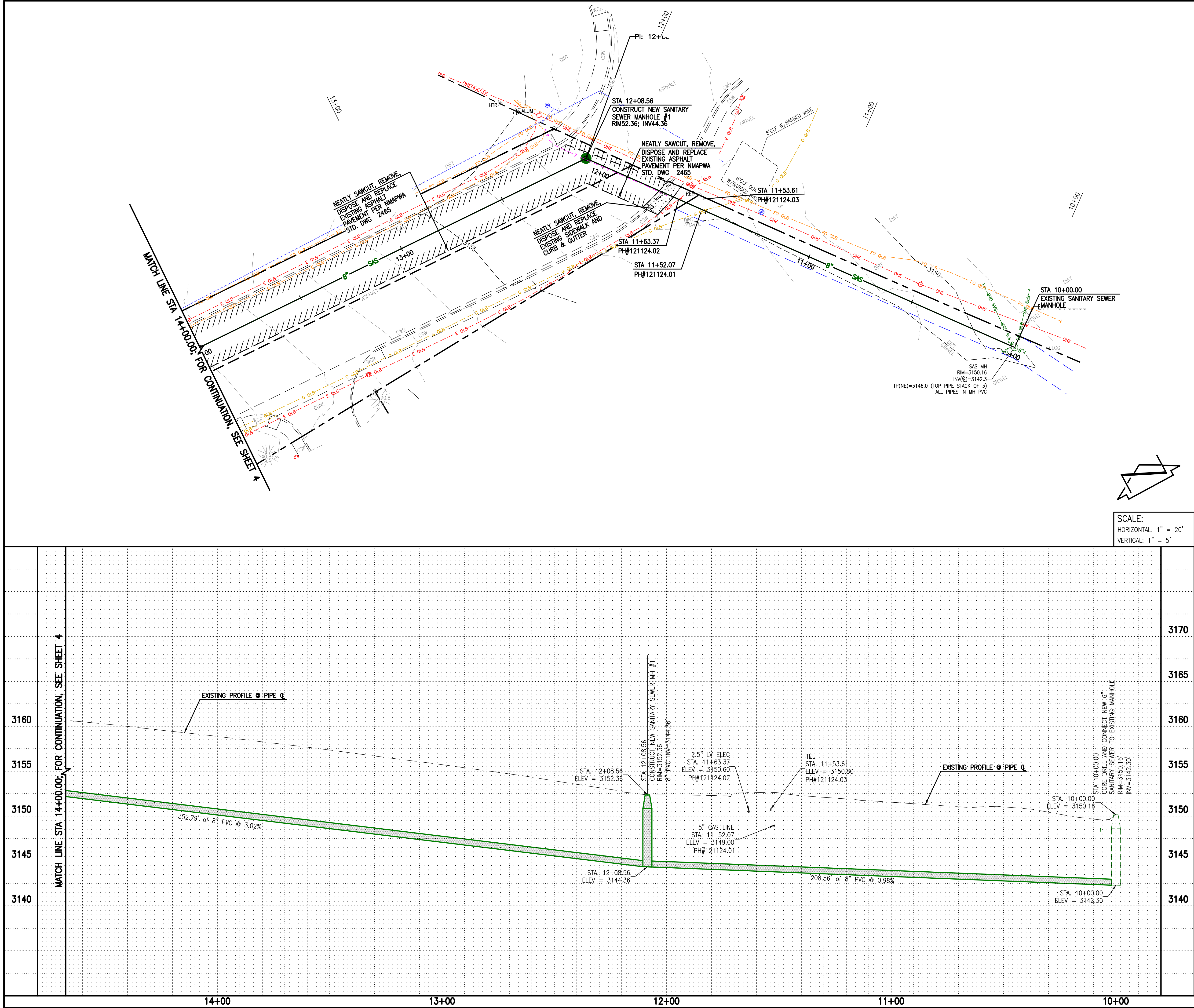


THIS IS NOT A BOUNDARY SURVEY OR A RIGHT-OF-WAY SURVEY. APPARENT PROPERTY CORNERS, RIGHT-OF-WAY LINES, OR PROPERTY LINES AS SHOWN ARE DERIVED FROM RECORD SURVEY PLATS, RIGHT-OF-WAY MAPS, OR DEED REFERENCES. THE INFORMATION IS NOT GUARANTEED OR TO BE RELIED ON FOR THE ESTABLISHMENT OF PROPERTY LINES.

THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A BOUNDARY SURVEY PREPARED BY HIGH MESA, A BOWMAN COMPANY, NMPS 15075, DATED 07/26/2024 (2024.044.2). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA, A BOWMAN COMPANY, NMPS NO. 15075, DATED 07/26/2024 (2024.044.2). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE OFFSITE PUBLIC SANITARY SEWER EXTENSION, AREA 12/24/2024 (2024.044.7) PREPARED BY BOWMAN COMPANY, NMPS 15075, DATED 12/24/24 (2024.044.7).

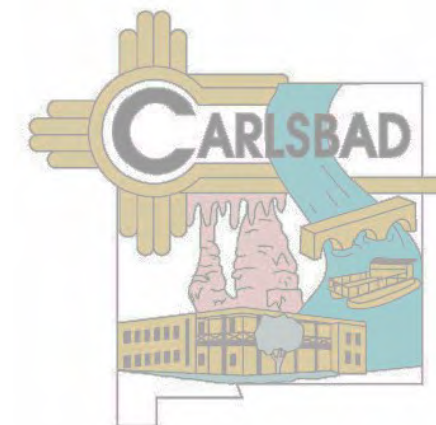
City Project No.	Sheet 2 Of 6
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SANITARY SEWER CONSTRUCTION NOTES:

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- ALL STATIONING IS BASED ON CONSTRUCTION BASELINE UNLESS INDICATED OTHERWISE.
- ALL SEWER PIPE SHALL BE PVC (SDR-35).
- SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
- TRACER WIRE SHALL BE INSTALLED ON ALL NEW SEWER SERVICE AND MAIN LINES, REGARDLESS OF SIZE. TRACER BOXES SHALL BE A SNAKE PIT MAGNETIZED TRACER BOX, ROADWAY BOX OR APPROVED EQUAL AND SHALL BE INSTALLED OUTSIDE THE STREET PAVEMENT BUT WITHIN THE ROAD RIGHT-OF-WAY AS NEAR AS POSSIBLE TO THE MANHOLE OR AS DIRECTED BY THE CITY OF CARLSBAD. A 6" CONCRETE COLLAR (SAME AS WATER VALVE BOX) SHALL BE INSTALLED AT THE TRACER BOX. REFER TO CITY SPECIFICATIONS ARTICLE 8.9.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.
- ALL SANITARY SEWER MANHOLES SHALL BE 4' DIAMETER TYPE MANHOLES PER CITY STANDARD UNLESS OTHERWISE NOTED.
- ALL UTILITIES WITHIN THE PROJECT LIMITS THAT ARE RENDERED OBSOLETE AND / OR UNUSED AS A RESULT OF THIS PROJECT SHALL NOT BE ABANDONED IN PLACE, BUT SHALL INSTEAD BE COMPLETELY REMOVED WITHIN THE PROJECT AREA AND CAPPED AT THE PROJECT LIMITS, UNLESS OTHERWISE NOTED.



CALL NM ONE-CALL  
SYSTEM SEVEN (7) DAYS  
PRIOR TO ANY EXCAVATION

**HIGH MESA Consulting Group**  
Engineers, Surveyors & Subcontractors Utility Consultants

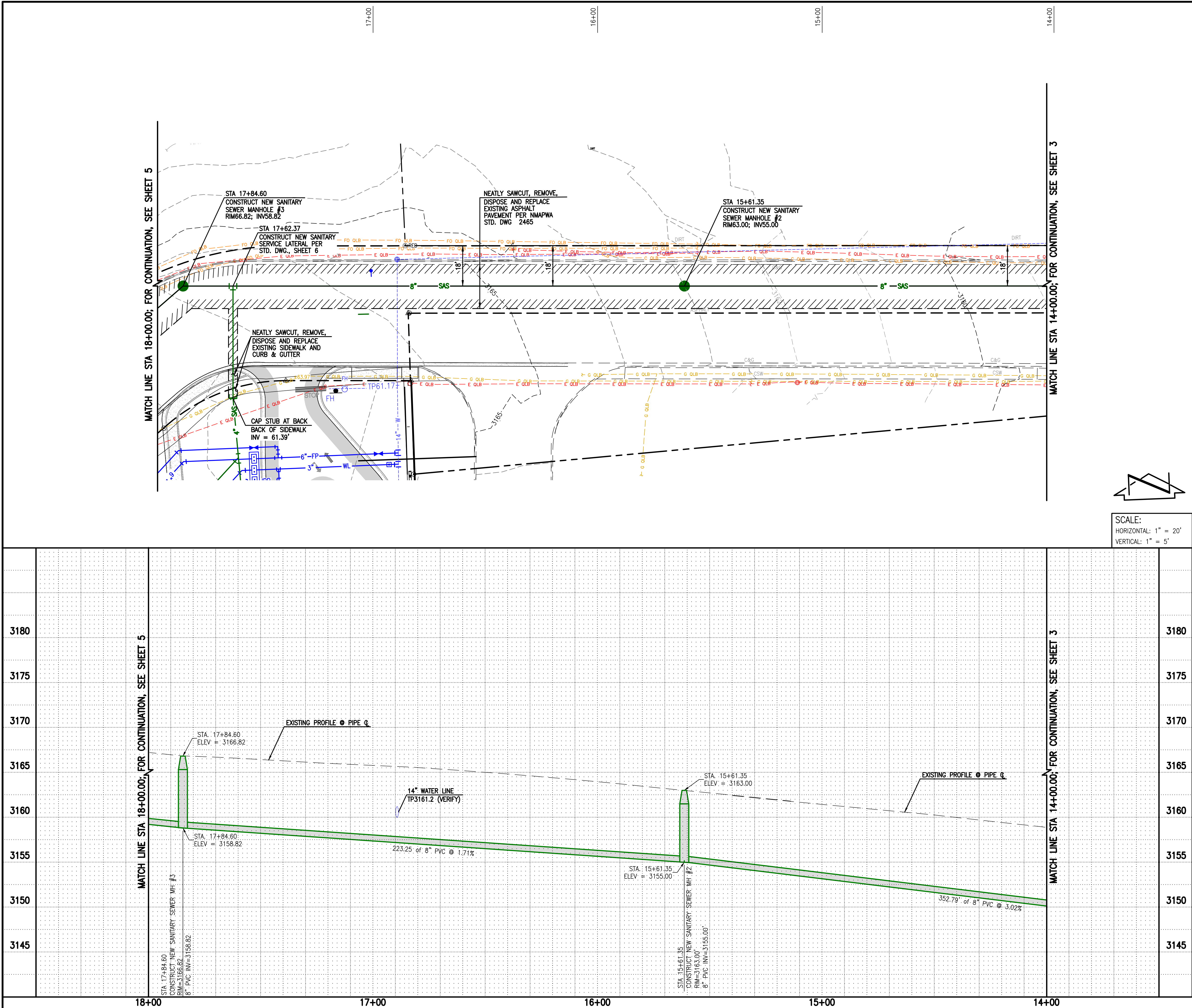
6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109  
Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesacg.com

2024.044.8

TITLE: SOUTHEAST NEW MEXICO COLLEGE  
UNIVERSITY DRIVE SANITARY SEWER EXTENSION  
PLAN AND PROFILE STA 10+00.00 TO 14+00+00

	City Approval	Last Design Update	Mo./Day/Yr.			
City Project No.			Sheet	3	Of	6





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  - WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.
  - ALL SANITARY SEWER MANHOLES SHALL BE 4' DIAMETER TYPE MANHOLES PER CITY STANDARD UNLESS OTHERWISE NOTED.
  - ALL UTILITIES WITHIN THE PROJECT LIMITS THAT ARE RENDERED OBSOLETE AND / OR UNUSED AS A RESULT OF THIS PROJECT SHALL NOT BE ABANDONED IN PLACE, BUT SHALL INSTEAD BE COMPLETELY REMOVED WITHIN THE PROJECT AREA AND CAPPED AT THE PROJECT LIMITS, UNLESS OTHERWISE NOTED.

SURVEY INFORMATION		BENCH MARKS	
NO.	DATE	BY	CONTRACTOR
	DATE		
2024.044.2	7/26/2024	HM/BOWMAN	ON THE SOUTH SIDE OF MEDINA PS 15702', SET IN GRAVEL
2024.044.7	12/24/2024	HM/BOWMAN	OF US HIGHWAY 285 AS SHOWN HEREON.



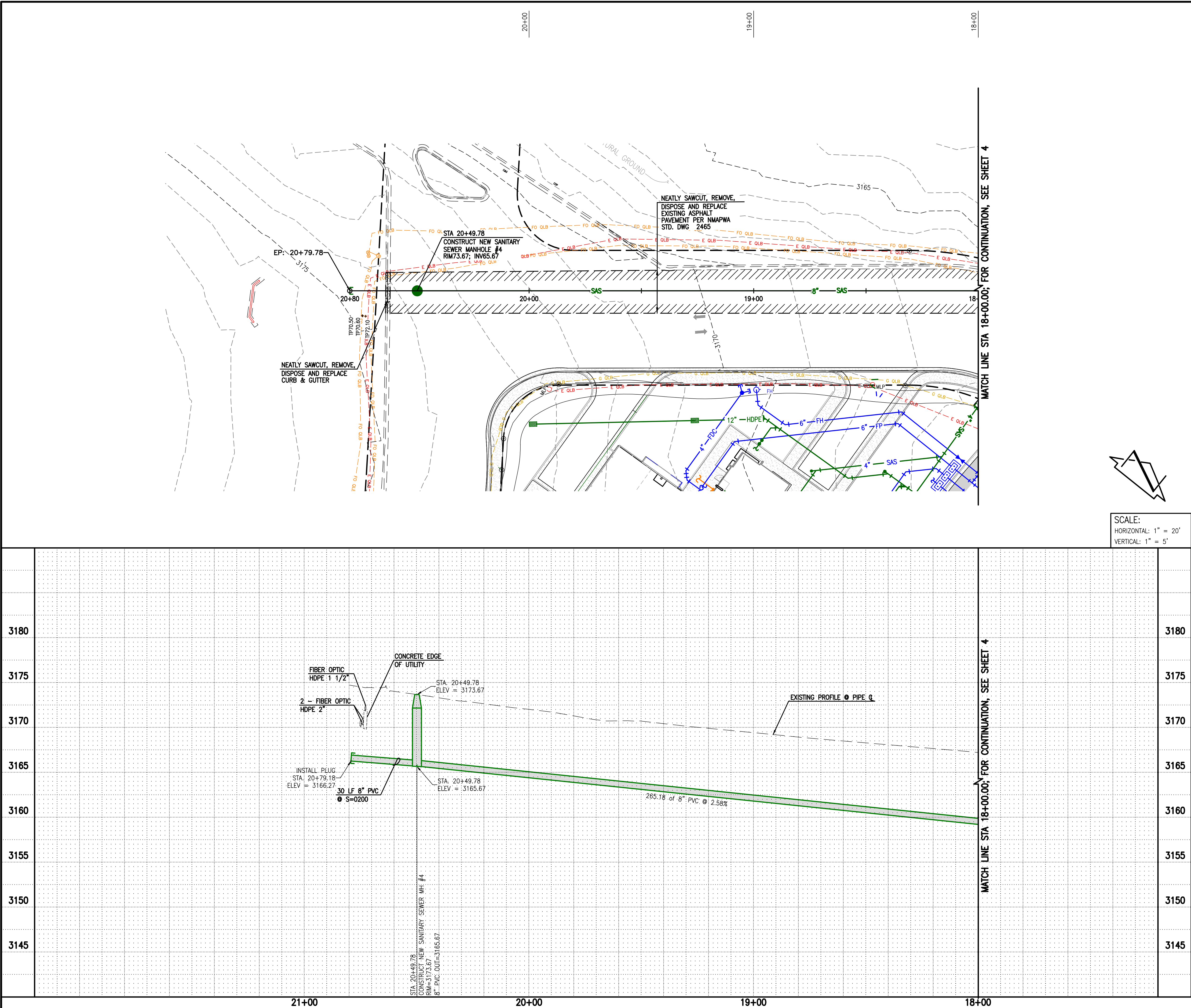
**HIGH MESA Consulting Group**  
Engineers, Surveyors & Subcontractors Utility Consultants  
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City Project No.	Sheet	4	6





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2024.044.7	HM/BOWMAN	12/24/2024	HM/BOWMAN



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City Project No. Sheet 5 of 6



