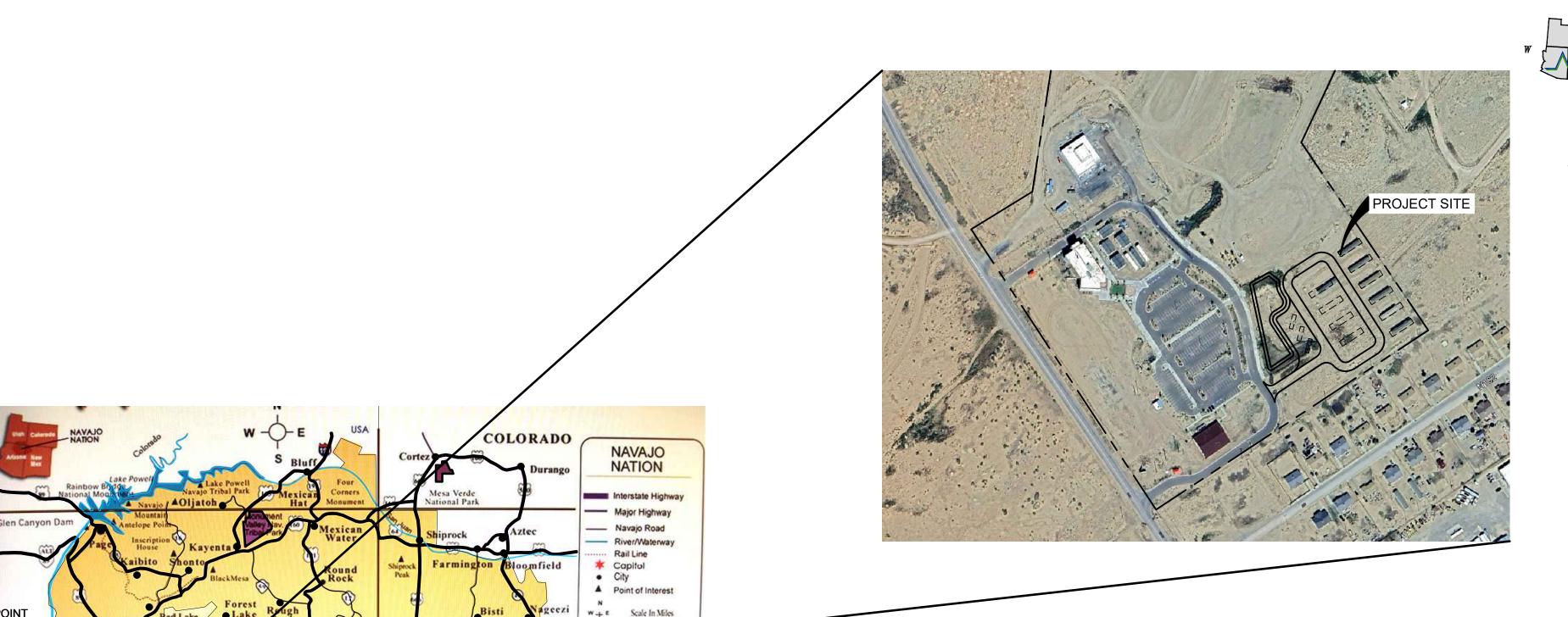
NAVAJO TECHNICAL UNIVERSITY CHINLE MOBILE HOME PARK

NAVAJO NATION, CHINLE, ARIZONA

April 2024

PROJECT DESCRIPTION:

DEVELOPMENT OF A MOBILE HOME PARK, LOCATED AT THE NTU CAMPUS
IN, CHINLE, AZ



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NOTE:

SURVEY AND EXISTING CONDITIONS FOR COORDINATION ONLY.

CERTIFICATION

Description

I, FRANCISCO X. URUETA, REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF ARIZONA NO. 50852, DO HEREBY CERTIFY THAT THE FOLLOWING PLANS AND DESIGNS WERE MADE UNDER MY SUPERVISION AND DIRECTION ON BEHALF OF SOUDER MILLER AND ASSOCIATES AND THAT SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

FRANCISCO URUETA, P.E. AZPE 50852, DATE SENIOR ENGINEER

1 OVERALL SITE PLAN - NAVAJO NATION SCALE: NTS

Professional English

Professional English

Solution (FICATE No.)

S

By Chk'd

Engineering • Environm
Geomatics

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GENERAL NOTES:

- 1. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS OF THIS PROJECT AND WILL BE RESPONSIBLE FOR ANY PRIVATE AGREEMENTS NECESSARY TO EXECUTE THIS CONTRACT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS EQUIPMENT TO PUBLIC OR PRIVATE PROPERTY.
- 2. 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
- 3. THIS DESIGN WAS COMPLETED WITHOUT THE BENEFIT OF GEOTECHNICAL REPORT. ALL FILL, AGGREGATES AND SUITABLE MATERIAL MUST BE OBTAINED FROM COMMERCIAL SOURCES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING A SUITABLE SOURCE MEETING ALL REQUIREMENTS OF THIS CONTRACT.
- 4. CONTRACTOR SHALL COORDINATE SITE ACCESS AND STAGING AREA WITH OWNER/ARCHITECT.
- 5. THE CONTRACTOR SHALL USE CAUTION AT ALL EXISTING STRUCTURES INCLUDING ALL UNREINFORCED MASONRY WALLS, BUILDINGS, ETC.. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO ANY STRUCTURES, DRIVEWAYS, LIGHT FIXTURES, AND WATER METERS, ETC.. AND SHALL REPAIR THE DAMAGES AT CONTRACTORS OWN EXPENSE.
- 6. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ARIZONA DOT STANDARD SPECIFICATIONS. ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ARIZONA DOT AND NAVAJO TRIBAL UTILITY AUTHORITY (NTUA) STANDARD DRAWINGS AND SPECIFICATIONS AND SPECIFICATIONS IN THE PROJECT MANUAL UNLESS OTHERWISE NOTED.
- 7. THE CONTRACTOR SHALL DETERMINE AND COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
- 8. WHEN ABUTTING NEW CONCRETE TO EXISTING ASPHALT, SAW CUT EXISTING CONCRETE TO A NEAT STRAIGHT LINE TO MATCH NEW A CONCRETE DEPTH.
- 9. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR DEVELOPING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DOCUMENT FOR THE PROJECT AND PROVIDING, BUILDING, MANAGING AND MAINTAINING ALL BEST MANAGEMENT PRACTICES (BPM'S) AND TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE SWPPP DOCUMENT FOR THE ENTIRE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING THE NOTICE OF INTENT (NOI) WITH EPA PRIOR TO CONSTRUCTION AND THE NOTICE OF TERMINATION AFTER COMPLETION AND ACCEPTANCE OF CONSTRUCTION AND CONDITIONS FOR AN N.O.T. PERMIT HAVE BEEN MET.
- 10. ALL ASPHALT PAVED SURFACES SHALL HAVE A MINIMUM SLOPE OF 1.00%. THE CONTRACTOR SHALL FIELD VERIFY AND NOTIFY THE PROJECT ENGINEER IF ANY ASPHALT PAVED SURFACES SLOPES ARE LESS THAN 1.00% PRIOR TO CONSTRUCTION.
- 11. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING EXISTING ASPHALT PAVING. THERE SHALL BE NO PAVEMENT CUTS, UNLESS PAVEMENT CUTS ARE EXPLICITLY NEEDED. SAWCUT ASPHALT OR CURB AND GUTTER TO A CLEAN, STRAIGHT EDGE. REPLACE SECTIONS AND MATCH TO EXISTING SECTIONS OF ASPHALT, CONCRETE, BASE COURSE, AND/OR SUBGRADE PREPARATION. REMOVE AND REPLACE ANY AREAS OF DISTURBED LANDSCAPING. CONTRACTOR SHALL SUBMIT NEW SECTION TO PROJECT ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. ANY DAMAGE TO THE ASPHALT DUE TO CONSTRUCTION ACTIVITY WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- 12. ACCESS TO ALL LOCAL BUSINESSES (INCLUDING ALL DELIVERIES) AND RESIDENCES SHALL BE KEPT OPEN AT ALL TIMES. ANY ACCESS CLOSURE MUST BE SCHEDULED WITH THE PROPERTY OWNERS AT LEAST 48 HOURS IN ADVANCE AND APPROVED BY THE OWNER/ENGINEER.
- 13. DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY TEMPORARY DRAINAGE MEASURES NECESSARY TO SAFELY CONVEY STORM WATER RUNOFF. ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY OR IMPROVEMENTS CONSTRUCTED BY THE CONTRACTOR RESULTING FROM STORM WATER FLOWS IN THE PROJECT VICINITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 14. MAINTENANCE OF DRAINAGE FACILITIES (E.G. WATER QUALITY POND, DRAINAGE SWALES) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE PROJECT IS ACCEPTED BY THE OWNER OF THE PROPERTY
- 15. ALL EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A TOPOGRAPHIC SURVEY PROVIDED BY: SOUDER, MILLER & ASSOCIATES DATED 05/26/22.
- 16. THE CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS ON ALL CIVIL SITE RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
- 17. THE CONTRACTOR SHALL DEVELOP THE TRAFFIC CONTROL PLAN AND SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES AND CONSTRUCTION SIGNING IN ACCORDANCE WITH THE "MUTCD" (LATEST EDITION) DURING THE CONSTRUCTION PERIOD (WORKING AND NON-WORKING HOURS). ANY NECESSARY DEVIATION FROM THE "MUTCD" SHALL HAVE PRIOR APPROVAL OF THE PROJECT ENGINEER OR CONSTRUCTION INSPECTOR. THE CONTRACTOR SHALL SUBMIT A COPY OF THE PROPOSED TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. THIS PLAN SHALL SATISFY THE REQUIREMENTS FOR PUBLIC SAFETY AND TRAVELING PUBLIC AS WELL AS THE REQUIREMENTS OF "MUTCD" AND SHALL BE REVISED AS NECESSARY TO MEET THE REQUIREMENTS DURING THE CONSTRUCTION PERIOD. THE SECTIONS OF ROADWAY WHICH ARE OPEN TO TRAFFIC SHALL BE KEPT IN GOOD RIDING CONDITION AND CLEAR OF HAZARDS TO TRAFFIC. THE SAFETY AND COMFORT OF THE TRAVELING PUBLIC AND ACCESS TO RESIDENCES AND OTHER TURNOUTS SHALL BE OF PRIMARY CONSIDERATION.
- 18. THE CONTRACTOR SHALL NOTIFY THE PROJECT ARCHITECT AND PROJECT ENGINEER OF ANY CONFLICT WITH SITE UTILITIES OR FEATURES AND OBTAIN A RESOLUTION PRIOR TO PROCEEDING WITH THE WORK
- 19. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PROTECT FROM DAMAGING EXISTING UTILITY LINES, WALKS, LANDSCAPING, ETC. WHICH WILL REMAIN AS PART OF THE FINAL SYSTEM. CONTRACTOR SHALL REPAIR AND/OR RESTORE THESE ITEMS AS REQUIRED TO PRE-CONSTRUCTION CONDITION.
- 20. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND OBTAINING ALL NECESSARY PERMITS AS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT.
- 21. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.
- 22. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.95%, ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 4.95%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 12:1.
- 23. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
- 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL QC TESTING ON THE PROJECT. THE OWNER MAY CONDUCT QA TESTING ON THE PROJECT AS DEEMED NECESSARY BY THE OWNER.
- 25. ROUGH GRADING SHALL BE COMPLETED WITHIN 1/10 OF A FOOT OF PLAN GRADE PRIOR TO INSTALLING WATER AND WASTEWATER UTILITIES.

WATER & SEWER UTILITY GENERAL NOTES:

- 1. IF THERE IS A CONFLICT BETWEEN PROPOSED SEWER SERVICE AND WATER SERVICE LINES, THE CONTRACTOR SHALL ADJUST THE WATER SERVICES AS NECESSARY TO COMPLETE THE WORK. 10' MINIMUM SEPARATION BETWEEN THE WATER AND SEWER PIPES, WHEN THE 10' HORIZONTAL SEPARATION CAN'T BE ACHIEVED, THE WATER LINE AND SEWER LINE CAN BE CLOSER THAN 10' AS LONG AS THE WATER LINE IS 18" ABOVE THE SEWER LINE (O.D. TO O.D.).
- 2. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL IDENTIFY, LOCATE AND THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL IDENTIFY, LOCATE AND REMOVE ALL SUPERFLUOUS UTILITIES AND ASSOCIATED CONDUITS AND APPURTENANCES ACCORDING TO THE INDICATIONS OF THIS DRAWING. REFER TO LEGEND AND DRAWING TO INTERPRET EXTENT OF WORK. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS BEFORE COMMENCING WORK IN THE AREAS NEAR UNDERGROUND UTILITY LINES. CONTRACTOR SHALL NOT INTERFERE WITH UTILITY LINE OPERATION AND SHALL COORDINATE ALL WORK AFFECTING EXISTING UTILITIES WITH THE APPROPRIATE AUTHORITY FOR EACH UTILITY, AND THE OWNER SHALL BE PROMPTLY NOTIFIED OF ANY PROBLEMS OR CONFLICTS ANTICIPATED OR ENCOUNTERED.
- 3. DURING THE CONSTRUCTION OF THIS PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED DURING THE CONSTRUCTION OF THIS PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY THE UTILITY OWNERS (PRIVATELY AND/OR TRIBALLY OWNED). THE CONTRACTOR SHALL COORDINATE AND ADVISE THE UTILITY OWNERS, ALLOWING ENOUGH TIME SO THAT THE REQUIRED UTILITY ADJUSTMENTS DO NOT IMPEDE THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED DUE TO ANY INTERFERENCE FROM SAID UTILITY COORDINATION.
- 4. ALL WATER LINE PIPE LESS THAN 4 INCHES SHALL BE 200 PSI, ASTM D2241, 1120 SDR21 AND ALL PIPES GREATER THAN OR EQUAL TO 4 INCHES SHALL BE 200 PSI, ASTM D2241, 1120 SDR21
- 5. ALL SANITARY SEWER PIPE SHALL BE SDR-35 PVC, ASTM-D3034
- 6. THE CONTRACTOR SHALL COORDINATE WITH NTUA UTILITIES DEPARTMENT FOR ALL NEW UTILITY INSTALLATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ALL UTILITIES IN ACCORDANCE WITH NTUA REQUIREMENTS.
- 7. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER (NTU) ON ALL NEW UTILITY INSTALLATIONS AND CONNECTIONS TO EXISTING SYSTEM PRIOR TO CONSTRUCTION.
- 8. ALL WATERLINES SHALL BE FLUSHED, DISINFECTED, AND TESTED IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATION. ALL FIRE LINES SHALL BE FLUSHED, DISINFECTED, AND TESTED IN ACCORDANCE WITH THE NFPA CODES AND REGULATIONS.
- 9. INSTALLATION OF ALL PIPE FITTINGS, ANGLES, BENDS, WYES, TEES ETC. REQUIRED TO INSTALL THE WATERLINE AND SANITARY SEWER LINE WILL BE CONSIDERED INCIDENTAL TO THE WATERLINE AND SANITARY SEWER LINE ITEM AND AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.
- 10. THE CONTRACTOR SHALL CONTACT THE LOCAL NTUA DISTRICT OFFICE TO REQUEST FOR UTILITY LINE LOCATES PRIOR TO CONSTRUCTION. THE UTILITY PROVIDER SHALL IDENTIFY THEIR UTILITY LINES AND MARK LOCATIONS OF THE UNDERGROUND UTILITIES.
- 11. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM NTUA THE PERMISSION TO TAP (PTT) APPLICATION PRIOR TO TAPPING EXISTING WATER AND SEWER MAINS.
- 12. THE CONTRACTOR SHALL COORDINATE WITH NTUA PRESENT AT THE SITE TO VERIFY LOCATION, DEPTH, SIZE AND TYPE OF UNDERGROUND UTILITIES.
- 13. THE CONTRACTOR IS TO COORDINATE WITH NTUA REGARDING WATER SHUT OFF WITH AT LEAST 3 DAYS ADVANCE NOTICE TO ISOLATE LINE(S), TO NOTIFY AFFECTED CUSTOMERS AND TO MINIMIZE OUTAGE TIME PRIOR TO CONNECTION OF NEW WATER SERVICE.
- 14. UNLESS OTHERWISE DIRECTED, ONLY NTUA STAFF WILL BE ALLOWED TO CLOSE/OPEN WATER VALVES FOR ANY CONNECTIONS TO EXISTING LINES AND FOR THE USAGE OF WATER.
- 15. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR ANY REMOVAL OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.
- 16. ALL WATER MAINS SHALL BE POLYVINYL CHLORIDE (PVC) PRESSURE PIPE WITH A MINIMUM OF 200 PSI PRESSURE CLASS UNLESS OTHERWISE SPECIFIED.
- 17. POLYETHYLENE WRAPPING (8 MILS MINIMUM THICKNESS IN ACCORDANCE WITH AWWA STANDARD C-105) SHALL BE INSTALLED AROUND DUCTILE IRON PIPES, FITTINGS, AND VALVES, FIRE HYDRANT BARRELS AND RODS AND CLAMPS.
- 18. DEFLECTION (VERTICAL OR HORIZONTAL) OF PIPES IS PERMITTED AND SHALL CONFORM TO AMERICAN WATER WORKS ASSOCIATION (AWWA) JOINT DEFLECTION FOR AWWA PRESSURE PIPE AND AT 80% OF MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION, WHICHEVER IS MORE STRINGENT. A COPY OF THE MANUFACTURER'S RECOMMENDATION SHALL BE SUBMITTED TO OWNER.
- 19. ANY ABRUPT CHANGE IN LINE OR GRADE SHALL REQUIRE MJ FITTINGS. ALL FITTINGS AND VALVES 4" OR GREATER IN IN SIZE SHALL BE MADE FROM DUCTILE IRON FURNISHED WITH MECHANICAL JOINT ENDS AND SHALL HAVE A PRESSURE RATING OF 350 PSI. ALL MJ ENDS SHALL HAVE "MEGALUG" MECHANICAL RESTRAINTS WITH CONCRETE THRUST BLOCK PER STD DTL MEGALUG" MECHANICAL RESTRAINTS WITH CONCRETE THRUST BLOCK PER STD DTL WS-19.
- 20. TRENCHES SHALL NOT BE BACKFILLED (INCLUDING BEDDING MATERIAL ABOVE SPRING LINE OF THE PIPE) UNTIL THE PIPE LAYING HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE OWNER (NTUA) REPRESENTATIVE.
- 21. ALL NEW WATER LINES SHALL BE TESTED. HYDROSTATIC TESTING, DISINFECTION, FLUSHING ANDBACTERIOLOGICAL TESTING (SHALL BE CONDUCTED IN ACCORDANCE WITH NTUA TECHNICAL SPECIFICATIONS FOR MATERIALS AND WORKMANSHIP FOR WATER AND WASTEWATER FACILITIES, SEPTEMBER 2008) SHALL BE COORDINATED WITH NTUA AT LEAST 3 DAYS IN ADVANCE. NTUA REPRESENTATIVE SHALL BE PRESENT TO RECORD THE INFORMATION AND TO CERTIFY THE TESTING.
- 22. ALL NEW SEWER MAINS SHALL BE TESTED. SEWER LINE: HYDROSTATIC OR AIR TESTING AND LAMP TEST FOR ALIGNMENT; AND MANHOLES: HYDROSTATIC OR VACUUM TESTING SHALL BE DONE IN ACCORDANCE WITH NTUA TECHNICAL SPECIFICATIONS FOR MATERIALS AND WORKMANSHIP FOR WATER AND WASTEWATER FACILITIES, SEPTEMBER 2008. NTUA REPRESENTATIVE SHALL BE PRESENT TO RECORD THE INFORMATION AND TO CERTIFY THE TESTING.
- 23. NTUA WILL PROVIDE THE DOMESTIC WATER METER FOR NEW SERVICES
- 24. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS ON ALL UTILITIES TO OWNER AND NTUA IN HARD COPY AND DIGITAL FORMAT IN FORM OF AN AUTOCAD FILE AND 4 SETS OF 24" X 36" DRAWINGS.
- 25. UTILITY ACCEPTANCE AND UTILITY TRANSFER: THE CONTRACTOR SHALL SCHEDULE A FINAL INSPECTION WITH NTUA HQ ENGINEERING AND LOCAL DISTRICT OFFICE, OWNER AND GENERAL CONTRACTOR AT THE END OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FOLLOWING DOCUMENTS: AS-BUILT DRAWINGS, APPROVED PTT, HYDROSTATIC TESTING RESULTS, BACTERIOLOGICAL TESTING RESULTS, APPROVED MATERIAL SUBMITTALS AND COST OF PLANT. PLEASE FOLLOW NTUA TECHNICAL SPECIFICATIONS FOR MATERIALS AND WORKMANSHIP FOR WATER AND WASTEWATER FACILITIES, SEPTEMBER 2008, SECTION TP 5.0.
- 26. THE CONTRACTOR SHALL PROVIDE A WARRANTY ON ALL NEW WATER AND WASTEWATER FACILITIES AGAINST DEFECTS IN MATERIALS, WORKMANSHIP FOR THE PERIOD OF ONE AND HALF YEARS (18 MONTHS) AFTER LATEST INSPECTION, ACCEPTANCE, AND APPROVAL DATE.

that ASSOCIATES

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Rev # Date Description By Chk'd Chk

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VAJO TECHNICAL UNIVERSIT



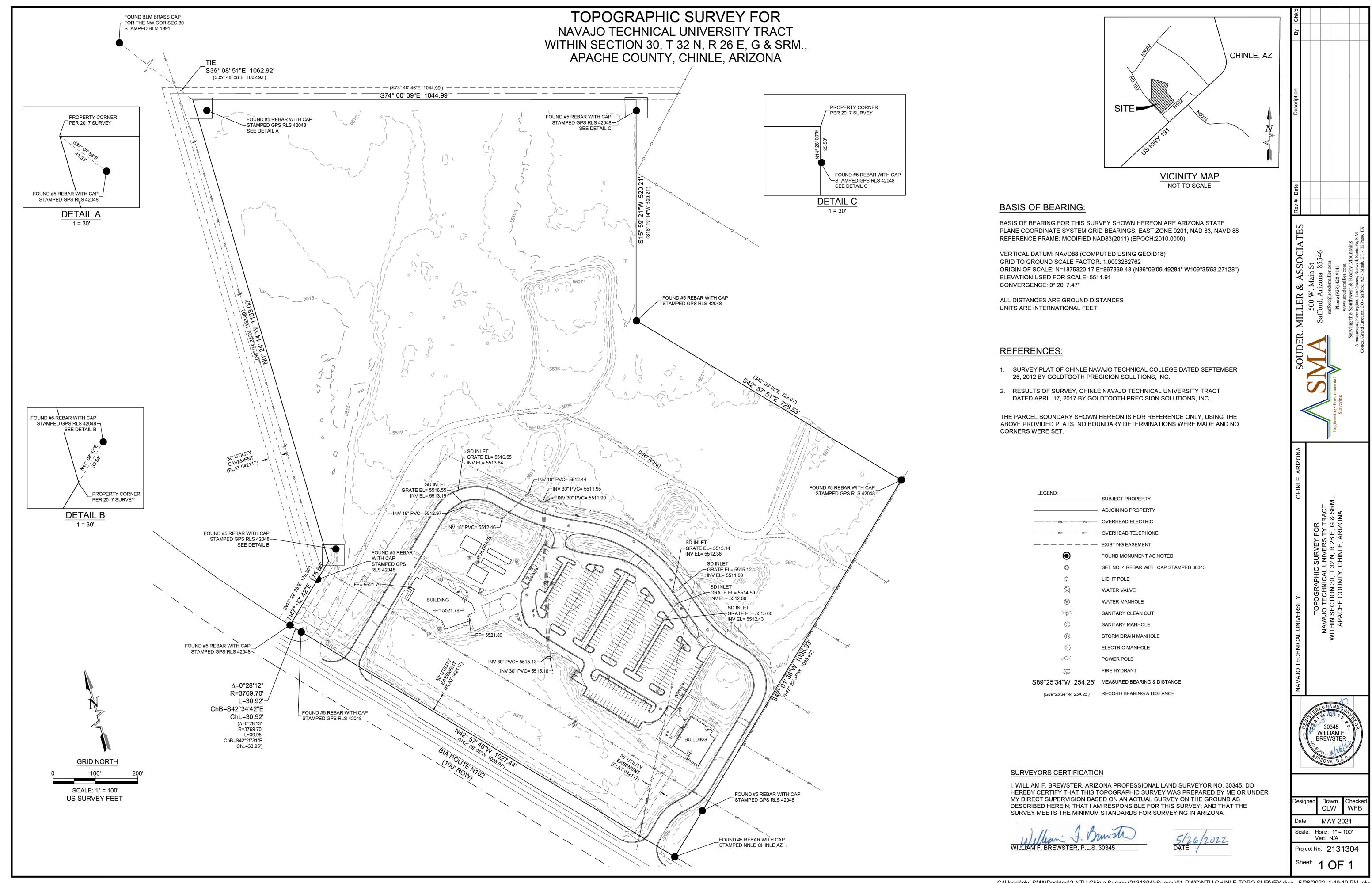
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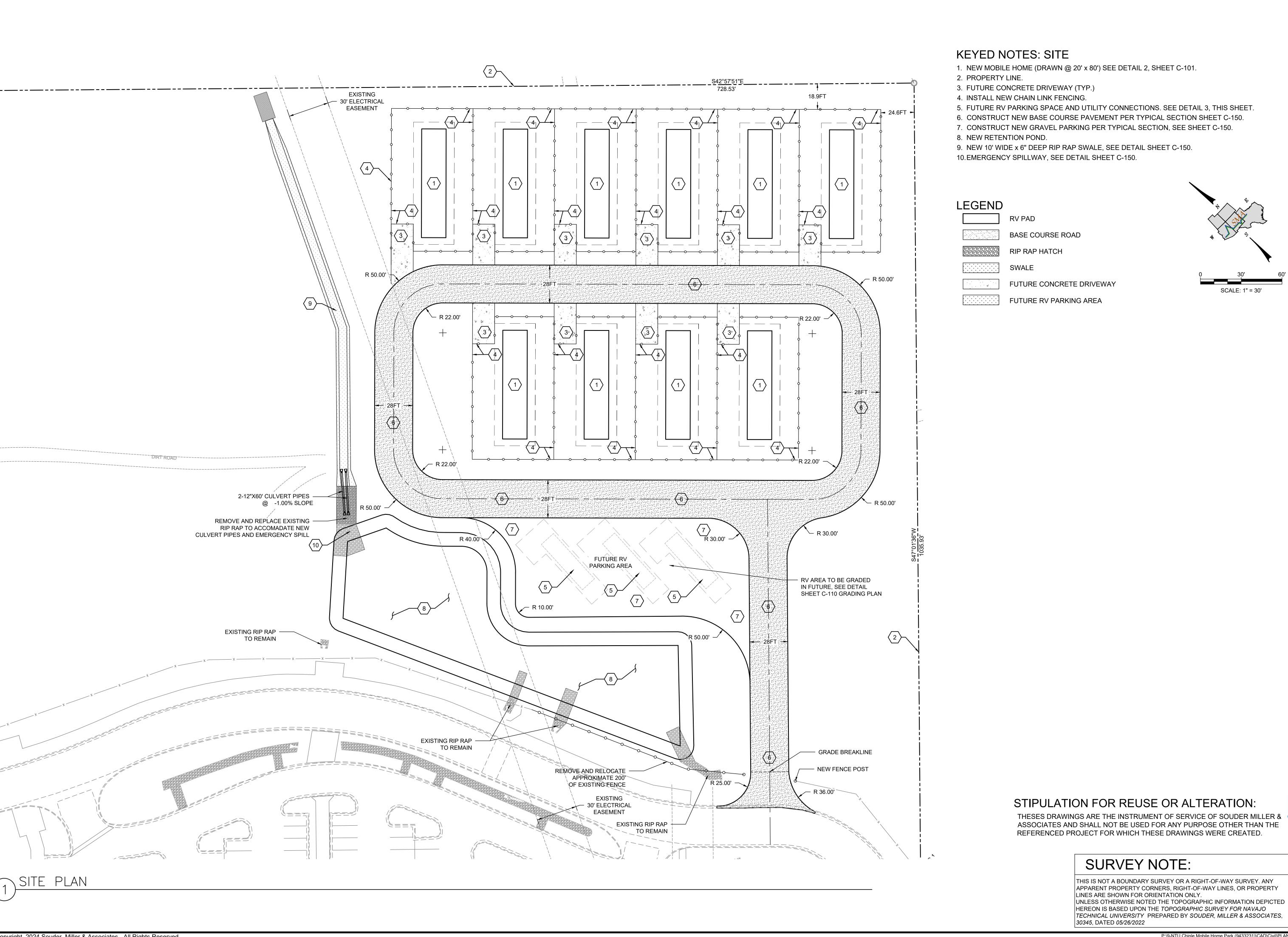
Date: 4/22/24

Scale: Horiz: N/A
Vert: N/A

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Project No: 9433231



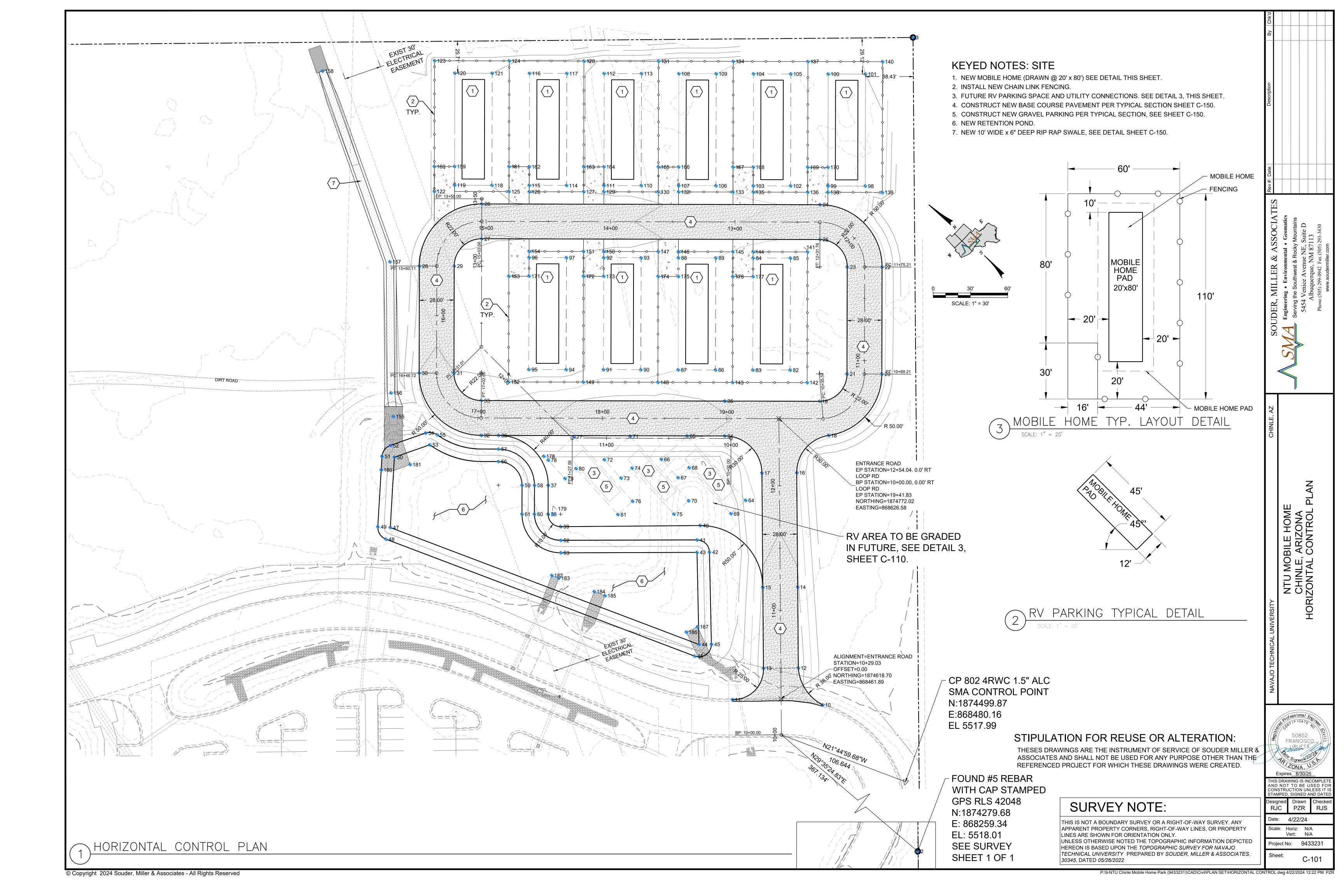




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Date: 4/22/24 Scale: Horiz: N/A Vert: N/A Project No: 9433231

C-100



Point Table							
Point #	Elevation	Northing	Easting	Description			
1	5519.19	1874193.36	868167.24	PROP CORNER			
2	5517.71	1874279.67	868259.36	PROP CORNER			
3	0.00	1874899.50	868925.20	PROP CORNER			
4	0.00	1875432.63	868428.67	PROP CORNER			
5	0.00	1875932.97	868571.36	PROP CORNER			
6	0.00	1876220.82	867566.80	PROP CORNER			
7	0.00	1875087.84	867574.78	PROP CORNER			
8	0.00	1874968.01	867446.07	PROP CORNER			
9	0.00	1874945.23	867467.00	PROP CORNER			
10	5516.92	1874590.78	868480.74	ROAD			
11	5513.69	1874646.98	868434.88	ROAD			
12	5516.73	1874625.16	868489.37	ROAD			
13	5516.73	1874645.65	868470.29	ROAD			
14	5516.16	1874669.51	868537.01	ROAD			
15	5516.16	1874690.00	868517.93	ROAD			
16	5515.24	1874732.09	868604.23	ROAD			
17	5515.24	1874752.59	868585.16	ROAD			
18	5515.31	1874733.40	868643.60	ROAD			
19	5515.30	1874757.36	868658.90	ROAD			
20	5515.43	1874735.25	868708.86	ROAD			

	Point Table					
Point #	Elevation	Northing	Easting	Description		
21	5515.43	1874755.93	868689.98	ROAD		
22	5515.46	1874793.21	868772.39	ROAD		
23	5515.45	1874813.89	868753.52	ROAD		
24	5515.18	1874863.84	868775.63	ROAD		
25	5515.18	1874844.97	868754.95	ROAD		
26	5512.52	1875064.65	868592.45	ROAD		
27	5512.52	1875045.78	868571.76	ROAD		
28	5512.65	1875067.89	868521.81	ROAD		
29	5512.65	1875047.20	868540.68	ROAD		
30	5513.51	1875009.93	868458.28	ROAD		
31	5513.53	1874989.24	868477.15	ROAD		
32	5514.35	1874939.29	868455.04	ROAD		
33	5514.34	1874958.16	868475.72	ROAD		
34	5515.52	1874794.77	868586.88	ROAD		
35	5515.52	1874813.64	868607.56	ROAD		
36	5514.55	1874929.02	868464.41	RV AREA		
37	5513.01	1874872.51	868461.82	RV AREA		
38	5513.01	1874856.88	868444.68	RV AREA		
39	5513.10	1874842.68	868444.10	RV AREA		
40	5515.25	1874760.67	868520.45	RV AREA		

Point Table								
Point #	Elevation	Northing	Easting	Description				
41	5512.00	1874754.70	868510.24	POND TOP				
42	5512.00	1874740.69	868509.79	POND TOP				
43	5510.00	1874747.92	868502.88	POND BOTT				
44	5510.00	1874696.78	868449.36	POND BOTT				
45	5512.00	1874689.55	868456.27	POND TOP				
46	5512.00	1874693.07	868440.07	POND TOP				
47	5510.00	1874943.15	868351.07	POND BOTT				
48	5512.00	1874939.45	868341.78	POND TOP				
49	5512.00	1874950.91	868344.76	POND TOP				
50	5510.00	1874978.88	868394.99	POND BOTT				
51	5512.00	1874986.64	868388.68	POND TOP				
52	5512.00	1874987.70	868399.71	POND TOP				
53	5510.00	1874964.66	868421.52	POND BOTT				
54	5512.00	1874973.48	868426.25	POND TOP				
55	5512.00	1874965.78	868431.46	POND TOP				
56	5510.00	1874914.89	868448.87	POND BOTT				
57	5512.00	1874921.62	868456.27	POND TOP				
58	5512.00	1874880.63	868454.40	POND TOP				
59	5510.00	1874888.01	868447.65	POND BOTT				
60	5512.00	1874865.00	868437.27	POND TOP				

		Point Ta	ıble	
Point #	Elevation	Northing	Easting	Description
61	5510.00	1874872.39	868430.53	POND BOTT
62	5512.00	1874835.18	868436.05	POND TOP
63	5510.00	1874828.38	868428.72	POND BOTT
64	5515.73	1874747.37	868560.12	RV AREA
65	5515.73	1874817.07	868566.53	RV AREA
66	5515.73	1874819.64	868538.65	RV AREA
67	5515.73	1874799.72	868536.82	RV AREA
68	5515.73	1874798.62	868548.77	RV AREA
69	5515.73	1874748.83	868544.19	RV AREA
70	5515.85	1874780.89	868528.91	RV AREA
71	5515.85	1874850.60	868535.32	RV AREA
72	5515.85	1874853.16	868507.44	RV AREA
73	5515.85	1874833.24	868505.61	RV AREA
74	5515.85	1874832.15	868517.56	RV AREA
75	5515.85	1874782.36	868512.98	RV AREA
76	5515.70	1874813.86	868498.22	RV AREA
77	5515.70	1874883.56	868504.63	RV AREA
78	0.00	1874886.13	868476.75	RV AREA
79	5515.70	1874866.21	868474.92	RV AREA
80	5515.70	1874865.11	868486.86	RV AREA

	Point Table						
Point #	Elevation	Northing	Easting	Description			
81	5515.70	1874815.32	868482.28	RV AREA			
82	5515.50	1874791.70	868661.42	MOBILE PAD			
83	5515.50	1874813.86	868641.20	MOBILE PAD			
84	5515.50	1874874.52	868707.69	MOBILE PAD			
85	5515.50	1874852.35	868727.91	MOBILE PAD			
86	5515.00	1874836.02	868620.98	MOBILE PAD			
87	5515.00	1874858.19	868600.77	MOBILE PAD			
88	5515.00	1874918.84	868667.26	MOBILE PAD			
89	5515.00	1874896.68	868687.47	MOBILE PAD			
90	5514.50	1874880.35	868580.55	MOBILE PAD			
91	5514.50	1874902.51	868560.33	MOBILE PAD			
92	5514.50	1874963.17	868626.82	MOBILE PAD			
93	5514.50	1874941.01	868647.04	MOBILE PAD			
94	5513.50	1874924.68	868540.11	MOBILE PAD			
95	5513.50	1874946.84	868519.89	MOBILE PAD			
96	5513.50	1875007.50	868586.38	MOBILE PAD			
97	5513.50	1874985.33	868606.60	MOBILE PAD			
98	5516.00	1874847.11	868811.20	MOBILE PAD			
99	5516.00	1874869.28	868790.98	MOBILE PAD			
100	5516.00	1874929.93	868857.47	MOBILE PAD			

Point Table					
Point #	Elevation	Northing	Easting	Description	
101	5516.00	1874907.77	868877.69	MOBILE PAD	
102	5515.50	1874891.44	868770.76	MOBILE PAD	
103	5515.50	1874913.60	868750.54	MOBILE PAD	
104	5515.50	1874974.26	868817.03	MOBILE PAD	
105	5515.50	1874952.10	868837.25	MOBILE PAD	
106	5515.00	1874935.77	868730.32	MOBILE PAD	
107	5515.00	1874957.93	868710.11	MOBILE PAD	
108	5515.00	1875018.59	868776.60	MOBILE PAD	
109	5515.00	1874996.42	868796.81	MOBILE PAD	
110	5514.50	1874980.09	868689.89	MOBILE PAD	
111	5514.50	1875002.26	868669.67	MOBILE PAD	
112	5514.50	1875062.91	868736.16	MOBILE PAD	
113	5514.50	1875040.75	868756.38	MOBILE PAD	
114	5513.50	1875024.42	868649.45	MOBILE PAD	
115	5513.50	1875046.59	868629.23	MOBILE PAD	
116	5513.50	1875107.24	868695.72	MOBILE PAD	
117	5513.50	1875085.08	868715.94	MOBILE PAD	
118	5513.00	1875068.75	868609.01	MOBILE PAD	
119	5513.00	1875090.91	868588.80	MOBILE PAD	
120	5513.00	1875151.57	868655.29	MOBILE PAD	

Point Table					
Point #	Elevation	Northing	Easting	Description	
121	5513.00	1875129.40	868675.50	MOBILE PAD	
122	5512.72	1875099.56	868574.14	FENCE	
123	5513.20	1875170.32	868651.71	FENCE	
124	5511.13	1875126.00	868692.15	FENCE	
125	5513.00	1875055.23	868614.58	FENCE	
126	5513.20	1875043.10	868625.41	FENCE	
127	5513.62	1875010.85	868655.06	FENCE	
128	5511.46	1875081.67	868732.58	FENCE	
129	5514.05	1874998.89	868665.98	FENCE	
130	5514.39	1874966.58	868695.45	FENCE	
131	5512.23	1875037.36	868773.01	FENCE	
132	5514.64	1874954.57	868706.40	FENCE	
133	5514.99	1874922.27	868735.87	FENCE	
134	5512.73	1874993.03	868813.45	FENCE	
135	5515.23	1874910.25	868746.84	FENCE	
136	5515.52	1874877.94	868776.31	FENCE	
137	5515.15	1874948.70	868853.88	FENCE	
138	5515.74	1874865.92	868787.27	FENCE	
139	5516.50	1874833.61	868816.75	FENCE	
140	5516.25	1874904.38	868894.32	FENCE	

Point Table					
Point #	Elevation	Northing	Easting	Description	
141	5515.38	1874845.59	868740.85	FENCE	
142	5515.41	1874774.83	868663.28	FENCE	
143	5515.32	1874819.15	868622.84	FENCE	
144	5515.23	1874877.90	868711.38	FENCE	
145	5514.99	1874889.92	868700.41	FENCE	
146	5514.64	1874922.23	868670.94	FENCE	
147	5514.39	1874934.22	868660.00	FENCE	
148	5515.15	1874863.47	868582.42	FENCE	
149	5514.57	1874907.79	868541.98	FENCE	
150	5514.05	1874966.54	868630.51	FENCE	
151	5513.61	1874978.56	868619.55	FENCE	
152	5513.88	1874952.12	868501.54	FENCE	
153	5513.48	1875009.41	868564.34	FENCE	
154	5513.21	1875010.87	868590.08	FENCE	
155	5513.50	1875001.55	868418.54	SWALE FL	
156	5511.21	1875015.79	868431.27	SWALE FL	
157	5510.96	1875087.61	868508.35	SWALE FL	
158	5510.60	1875231.15	868584.75	SWALE FL	
159	5513.00	1875101.07	868599.93	FENCE	
160	5512.67	1875113.04	868588.91	FENCE	

Point Table					
Point #	Elevation	Northing	Easting	Description	
161	5513.23	1875068.76	868629.40	FENCE	
162	5513.50	1875056.74	868640.37	FENCE	
163	5513.96	1875024.43	868669.84	FENCE	
164	5514.50	1875012.42	868680.80	FENCE	
165	5514.73	1874980.11	868710.28	FENCE	
166	5515.00	1874968.09	868721.24	FENCE	
167	5515.23	1874935.78	868750.71	FENCE	
168	5515.50	1874923.76	868761.68	FENCE	
169	5515.73	1874891.45	868791.15	FENCE	
170	5516.00	1874879.43	868802.11	FENCE	
171	5513.50	1874997.44	868575.35	FENCE	
172	5513.96	1874965.13	868604.83	FENCE	
173	5514.50	1874953.11	868615.79	FENCE	
174	5514.73	1874920.80	868645.26	FENCE	
175	5515.00	1874908.78	868656.23	FENCE	
176	5515.23	1874876.47	868685.70	FENCE	
177	5515.50	1874864.45	868696.66	FENCE	
178	5513.00	1874890.91	868476.69	RV AREA	
179	5513.00	1874854.03	868447.50	RV AREA	
180	5512.00	1874979.80	868380.27	RIP RAP	

Point Table							
Point #	Elevation	Northing	Easting	Description			
181	5510.00	1874965.60	868399.18	RIP RAP			
182	5510.00	1874821.45	868410.39	RIP RAP			
183	5510.00	1874815.89	868412.60	RIP RAP			
184	5510.00	1874787.57	868423.91	RIP RAP			
185	5510.00	1874778.96	868427.34	RIP RAP			
186	5510.00	1874711.01	868449.78	RIP RAP			
187	5510.00	1874707.23	868459.03	RIP RAP			

HORIZONTAL CONTROL TABLES

STIPULATION FOR REUSE OR ALTERATION:

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CHINLE, AZ

CHINLE, AZ

SOUDER, MILLER & ASSOCIATES

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Expires 6/30/25

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed Drawn Checked RJC PZR RJS

Date: 4/22/24

 Date:
 4/22/24

 Scale:
 Horiz:
 N/A

 Vert:
 N/A

 Project No:
 9433231

GOOD HOUSE KEEPING PRACTICES:

- THE CONTRACTOR SHALL ESTABLISH A CONCRETE WASHOUT PIT BEFORE THE START OF CONSTRUCTION AND MARK ITS LOCATION ON THE SITE MAP.
- 2. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED AT THE SITE ENTRANCE AS DETERMINED BY THE
- CONTRACTOR.

 3 THE CONTRACTOR SHALL ESTABLISH A COMPREHENSIVE DUST CONTROL PLAN TO LIMIT OFF-SITE SEDIMENTATION BY
- THE CONTRACTOR SHALL ESTABLISH A COMPREHENSIVE DUST CONTROL PLAN TO LIMIT OFF-SITE SEDIMENTATION BY CONTROLLING THE SITES POTENTIAL FOR PRODUCING AIRBORNE FUGITIVE DUST AND TRACK-OUT OF SEDIMENTS.
 SANITARY FACILITIES ARE REQUIRED FOR ALL WORK SITES OR CONSTRUCTION AREAS.
- SOLID WASTE MATERIALS SHALL BE STORED AND DISPOSED OF WITHIN DUMPSTER RENTED FROM AND COLLECTED BY A
 PRIVATE WASTE DISPOSAL CONTRACTOR. NO CONSTRUCTION WASTE MATERIALS SHALL BE DISPOSED OF OR BURIED ON-SITE.
 THE CONTRACTOR SHALL ESTABLISH AN EQUIPMENT MAINTENANCE PLAN TO REDUCE CONTAMINATION OF ON-SITE SOILS.
- CONSTRUCTION MATERIALS AND CHEMICALS SHALL BE SHELTERED IN COVERED STORAGE AREAS THAT HAVE A SPILL PROOF PERIMETER AROUND IT. LOCATE CHEMICAL STORAGE AREAS AWAY FROM LOW-LYING AREAS AND DRAINAGE PATHS.
 THE CONTRACTOR SHALL ESTABLISH A SPILL PREVENTION PLAN THAT INCLUDES MEASURES TO LIMIT THE SCOPE OF A SPILL AND MINIMIZE ENVIRONMENTAL DAMAGE. IN THE EVENT OF A SPILL OF A HAZARDOUS SUBSTANCE, THE RESPONSIBLE PARTY SHALL IMMEDIATELY NOTIFY THE NATIONAL RESPONSE CENTER (800-424-8802 OR 202-426-2675), THE NEW MEXICO ENVIRONMENT DEPARTMENT (EMERGENCY LINE: 505-827-9329, NON-EMERGENCY LINE: 866-428-6535), AND THE LOCAL FIRE

MAINTENANCE:

ALL STORM WATER CONTROLS STATED ON THIS SITE MAP SHALL BE MAINTAINED IN FULL FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL STORM WATER CONTROLS SHALL BE CHECKED AND REPAIRED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE NPDES/EPA PERMIT REQUIREMENTS.

- BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCES AND WADDLES WHEN IT REACHES ½ THE HEIGHT, OR AS
 NECESSARY FOR MAINTENANCE. IF FABRIC BECOMES CLOGGED. IT SHOULD BE CLEANED. OR REPLACED. IF NECESSARY.
- HARDENED CONCRETE SHALL BE REMOVED FROM CONCRETE WASHOUT AREA ON A REGULAR BASIS.
 THE CONSTRUCTION ENTRANCE/EXIT SHALL BE PERIODICALLY RE-GRADED AND/OR TOP DRESSED WITH ADDITIONAL STONE TO KEEP THE EFFICIENCY OF THE ENTRANCE FROM DIMINISHING. WHEN SEDIMENT HAS SUBSTANTIALLY CLOGGED THE VOID AREA BETWEEN THE ROCKS, THE AGGREGATE MUST BE WASHED DOWN AND/OR REPLACED.
- CONSTRUCTION ENTRANCE/EXIT AREA SHALL BE INSPECTED FOR OFF-SITE TRACKING AND SWEPT AS NECESSARY.
 SANITARY WASTES SHALL BE COLLECTED FROM PORTABLE SANITARY FACILITIES NOT LESS THAN ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY STATE AND LOCAL REGULATIONS.
- 6. SOLID WASTE COLLECTION SHALL NOT BE LESS THAN BI-WEEKLY OR MORE OFTEN IF NECESSARY.

 7. THE STORAGE/STAGING AND MASON'S AREAS SHALL BE CLEARED OF DEBRIS, ANY DEBRIS AND/OR SEDIMENT REACHING THE

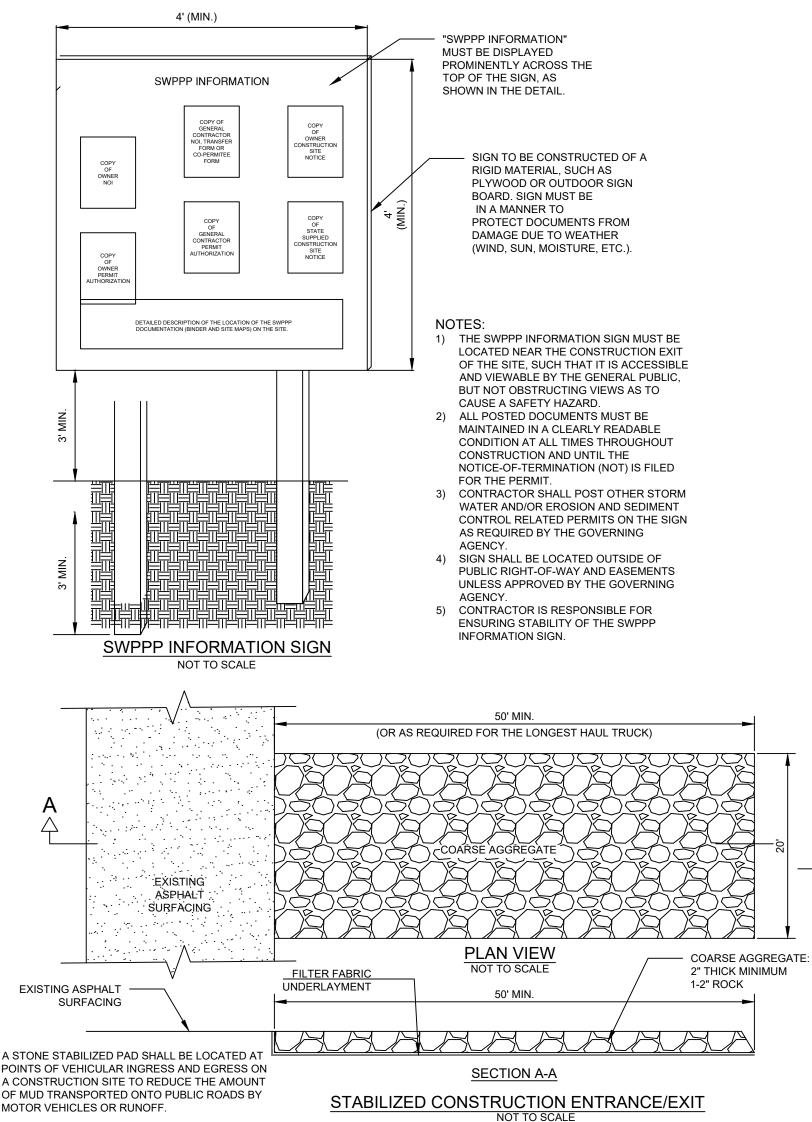
PUBLIC STREET SHALL BE CLEARED IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.

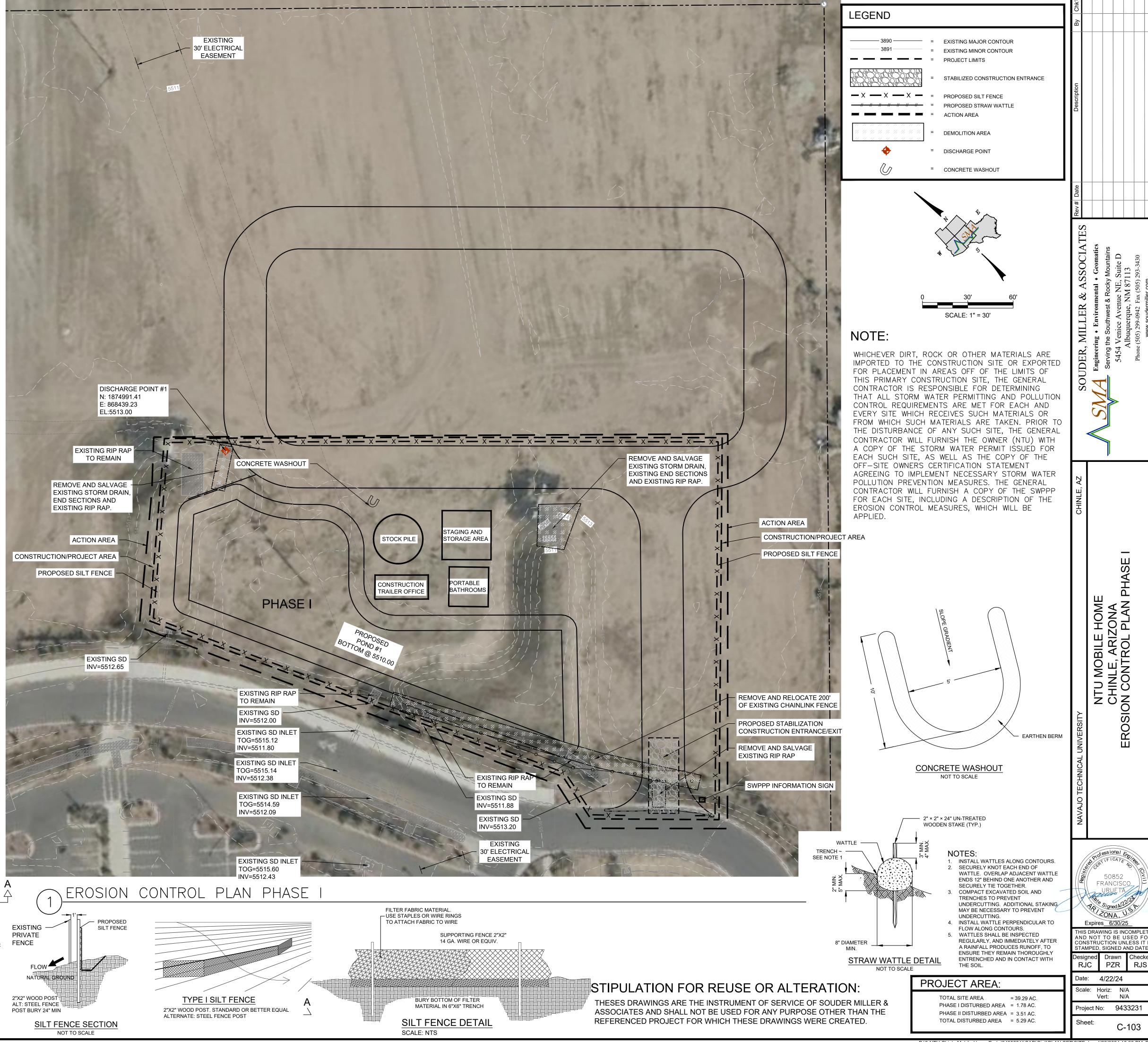
SEQUENCE OF CONSTRUCTION:

DESCRIBED BELOW ARE THE MAJOR CONSTRUCTION ACTIVITIES THAT ARE THE SUBJECT TO THIS PLAN. ALSO INCLUDED IN THE SEQUENCE ARE STORM WATER CONTROLS INSTALLATION ACTIVITIES THAT MUST TAKE PLACE PRIOR TO CONSTRUCTION ACTIVITIES. NOTE: DOWN SLOPE PROTECTIVE MEASURES MUST ALWAYS BE IN PLACE BEFORE SOIL IS DISTURBED. ACTIVITIES ARE PRESENTED IN THE SEQUENCE THEY ARE EXPECTED TO BE COMPLETED. CONTRACTOR TO IMMEDIATELY DENOTE ON THIS PLAN ANY CHANGES IN STORM WATER CONTROLS LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. THE SEQUENCE OF CONSTRUCTION IS AS FOLLOWS:

- 1. INSTALL SWPPP INFORMATION SIGN.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT.
 INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT.
- PREPARE STORAGE/STAGING AND MASON'S AREAS. UPON IMPLEMENTATION AND INSTALLATION, DENOTE THE FOLLOWING AREAS ON THIS PLAN: TRAILER PARKING, PORTABLE SANITARY FACILITIES, WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, AND SOLID WASTE CONTAINERS.
- INSTALL RETENTION PONDS.
 INSTALL STRAW WATTLES.
- 6. INSTALL SILT FENCE.
- CLEAR AND GRUB THE SITE
 BEGIN GRADING THE SITE.
- BEGIN GRADING THE SITE.
 TEMPORARY STABILIZE STOCKPILE AREAS
- 10. APPLY PERMANENT STABILIZATION.
 11. INSPECT AND CLEAN-UP SITE.
- 12. REMOVE TEMPORARY STORM WATER CONTROLS (ONLY IF SITE IS "FINAL STABILIZED" AS PER 2022 CGP).13. FILE OWNER AND OPERATOR NOTICE OF TERMINATION (NOT).

THE ACTUAL SCHEDULE FOR IMPLEMENTING STORM WATER CONTROLS WILL BE DETERMINED BY PROJECT CONSTRUCTION PROGRESS AND RECORDED BY THE CONTRACTOR ON THE SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE ON THIS PLAN.





GOOD HOUSE KEEPING PRACTICES:

- 1. THE CONTRACTOR SHALL ESTABLISH A CONCRETE WASHOUT PIT BEFORE THE START OF CONSTRUCTION AND MARK ITS LOCATION ON THE SITE MAP.
- 2. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED AT THE SITE ENTRANCE AS DETERMINED BY THE
- 3. THE CONTRACTOR SHALL ESTABLISH A COMPREHENSIVE DUST CONTROL PLAN TO LIMIT OFF-SITE SEDIMENTATION BY CONTROLLING THE SITES POTENTIAL FOR PRODUCING AIRBORNE FUGITIVE DUST AND TRACK-OUT OF SEDIMENTS.
- 4. SANITARY FACILITIES ARE REQUIRED FOR ALL WORK SITES OR CONSTRUCTION AREAS. 5. SOLID WASTE MATERIALS SHALL BE STORED AND DISPOSED OF WITHIN DUMPSTER RENTED FROM AND COLLECTED BY A PRIVATE WASTE DISPOSAL CONTRACTOR. NO CONSTRUCTION WASTE MATERIALS SHALL BE DISPOSED OF OR BURIED ON-SITE THE CONTRACTOR SHALL ESTABLISH AN EQUIPMENT MAINTENANCE PLAN TO REDUCE CONTAMINATION OF ON-SITE SOILS.

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PERIMETER AROUND IT. LOCATE CHEMICAL STORAGE AREAS AWAY FROM LOW-LYING AREAS AND DRAINAGE PATHS. 8. THE CONTRACTOR SHALL ESTABLISH A SPILL PREVENTION PLAN THAT INCLUDES MEASURES TO LIMIT THE SCOPE OF A SPILL AND MINIMIZE ENVIRONMENTAL DAMAGE. IN THE EVENT OF A SPILL OF A HAZARDOUS SUBSTANCE, THE RESPONSIBLE PARTY SHALL IMMEDIATELY NOTIFY THE NATIONAL RESPONSE CENTER (800-424-8802 OR 202-426-2675), THE NEW MEXICO ENVIRONMENT DEPARTMENT (EMERGENCY LINE: 505-827-9329, NON-EMERGENCY LINE: 866-428-6535), AND THE LOCAL FIRE

MAINTENANCE:

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- 1. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCES AND WADDLES WHEN IT REACHES ½ THE HEIGHT, OR AS NECESSARY FOR MAINTENANCE. IF FABRIC BECOMES CLOGGED, IT SHOULD BE CLEANED, OR REPLACED, IF NECESSARY.
- HARDENED CONCRETE SHALL BE REMOVED FROM CONCRETE WASHOUT AREA ON A REGULAR BASIS THE CONSTRUCTION ENTRANCE/EXIT SHALL BE PERIODICALLY RE-GRADED AND/OR TOP DRESSED WITH ADDITIONAL STONE TO KEEP THE EFFICIENCY OF THE ENTRANCE FROM DIMINISHING. WHEN SEDIMENT HAS SUBSTANTIALLY CLOGGED THE VOID AREA BETWEEN THE ROCKS, THE AGGREGATE MUST BE WASHED DOWN AND/OR REPLACED.
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SEQUENCE OF CONSTRUCTION:

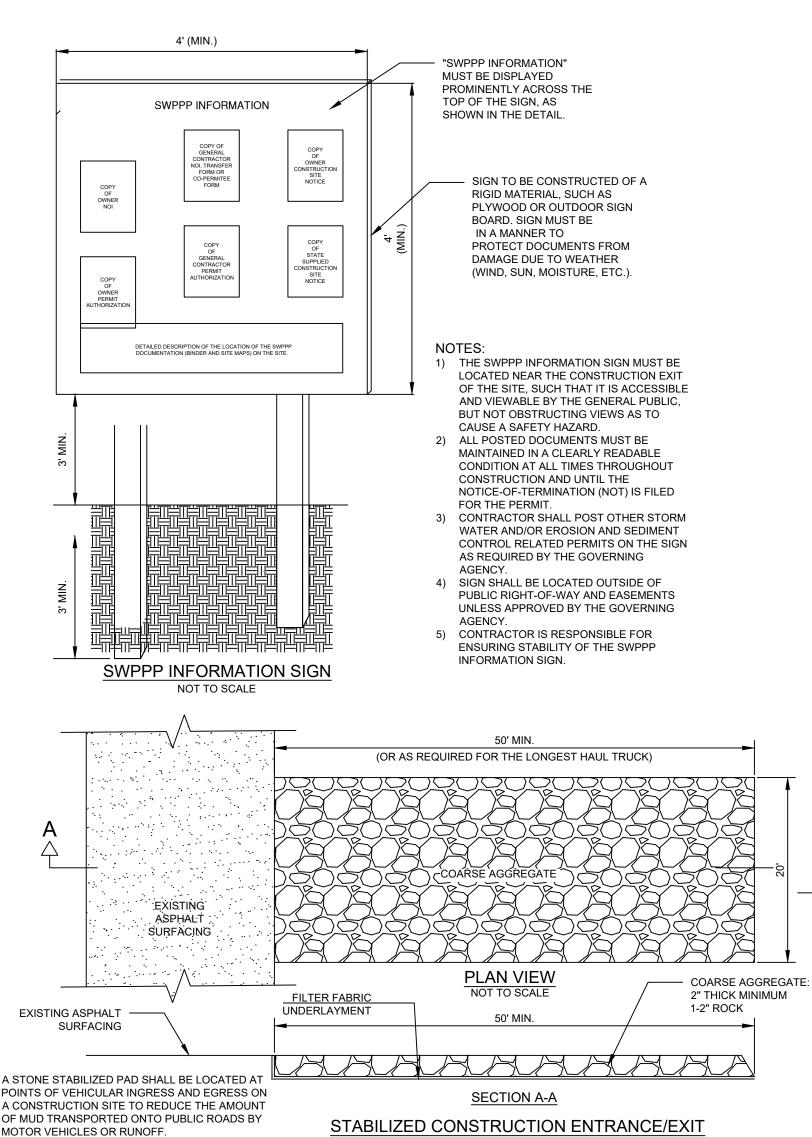
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1. INSTALL SWPPP INFORMATION SIGN.

CONTAINERS, AND SOLID WASTE CONTAINERS.

- 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT. 3. PREPARE STORAGE/STAGING AND MASON'S AREAS. UPON IMPLEMENTATION AND INSTALLATION, DENOTE THE FOLLOWING AREAS ON THIS PLAN: TRAILER PARKING, PORTABLE SANITARY FACILITIES, WASHOUT, FUEL AND MATERIAL STORAGE
- 4. INSTALL RETENTION PONDS. 5. INSTALL STRAW WATTLES.
- 6. INSTALL SILT FENCE.
- 7. CLEAR AND GRUB THE SITE 8 BEGIN GRADING THE SITE
- TEMPORARY STABILIZE STOCKPILE AREAS.
- 10. APPLY PERMANENT STABILIZATION. 11. INSPECT AND CLEAN-UP SITE.
- 12. REMOVE TEMPORARY STORM WATER CONTROLS (ONLY IF SITE IS "FINAL STABILIZED" AS PER 2022 CGP). 13. FILE OWNER AND OPERATOR NOTICE OF TERMINATION (NOT).

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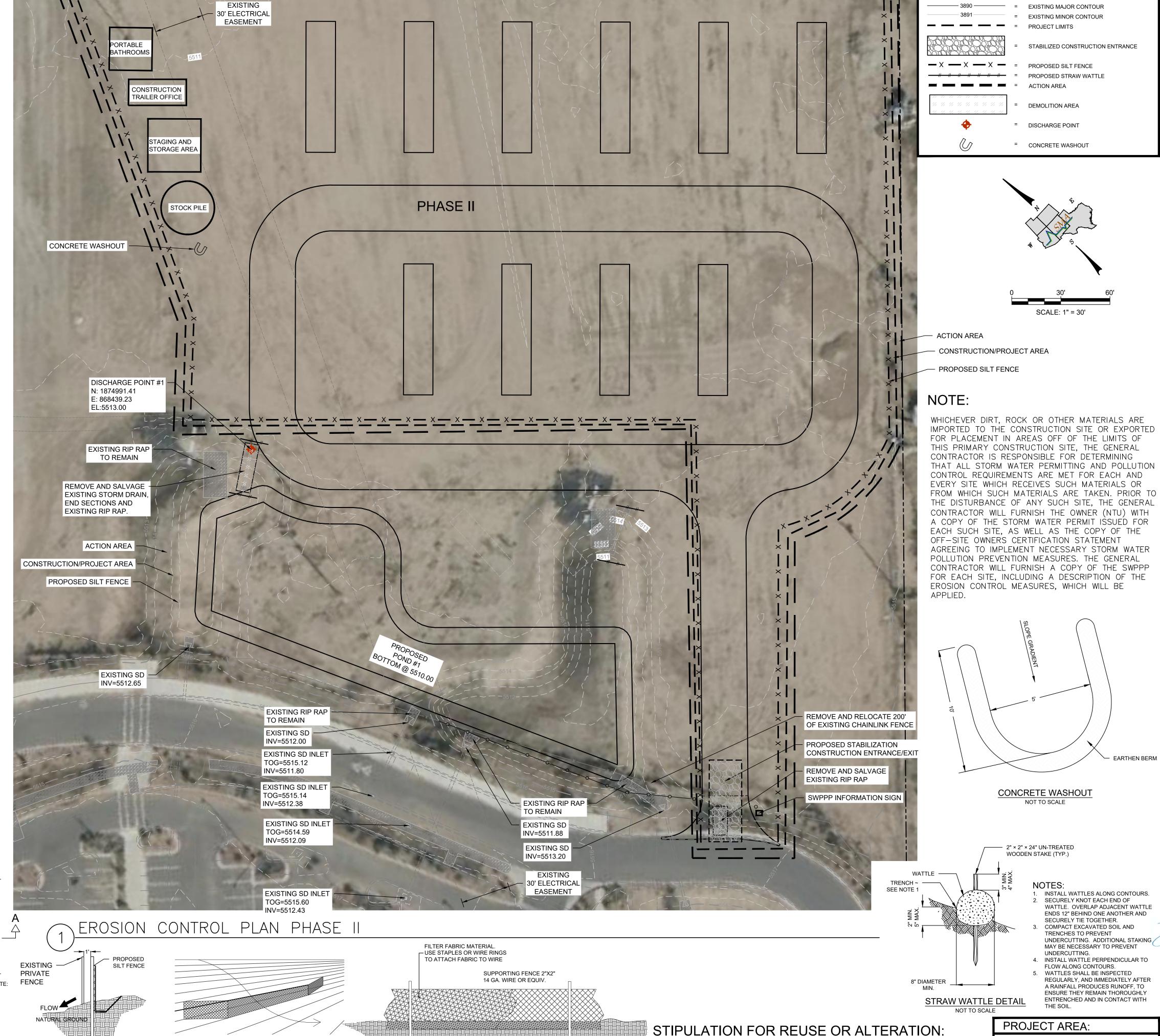


2"X2" WOOD POST

POST BURY 24" MIN

ALT: STEEL FENCE

SILT FENCE SECTION



LEGEND

- EARTHEN BERN

TOTAL SITE AREA = 39.29 AC.

PHASE I DISTURBED AREA = 1.78 AC.

PHASE II DISTURBED AREA = 3.51 AC.

TOTAL DISTURBED AREA = 5.29 AC.

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50852

FRANCISC

Expires 6/30/25

Date: 4/22/24

Scale: Horiz: N/A

RJC

AND NOT TO BE USED FO

CONSTRUCTION UNLESS IT

STAMPED SIGNED AND DATE

PZR

Vert: N/A

Project No: 9433231

RJS

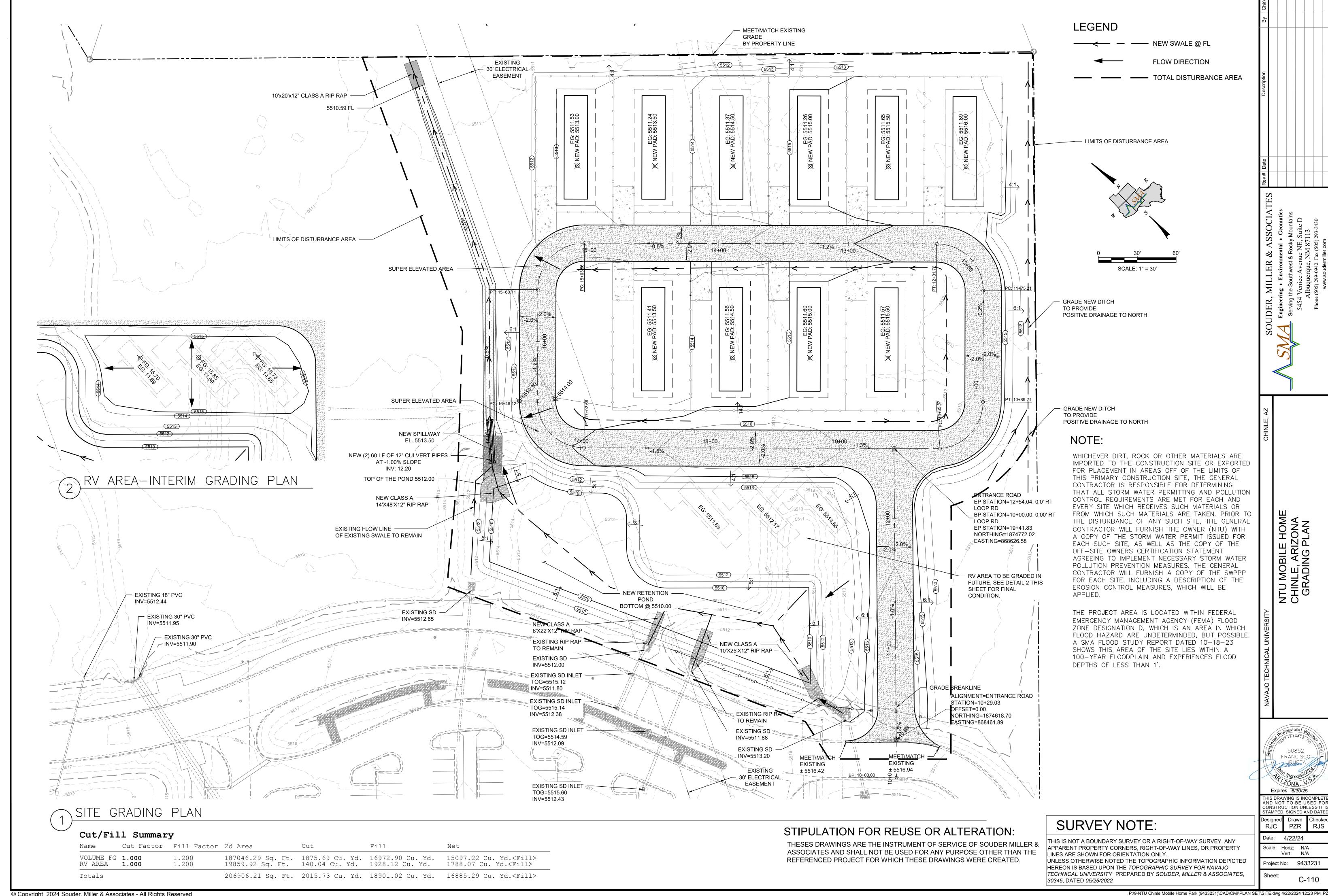
SCALE: NTS NOT TO SCALE © Copyright 2024 Souder, Miller & Associates - All Rights Reserved

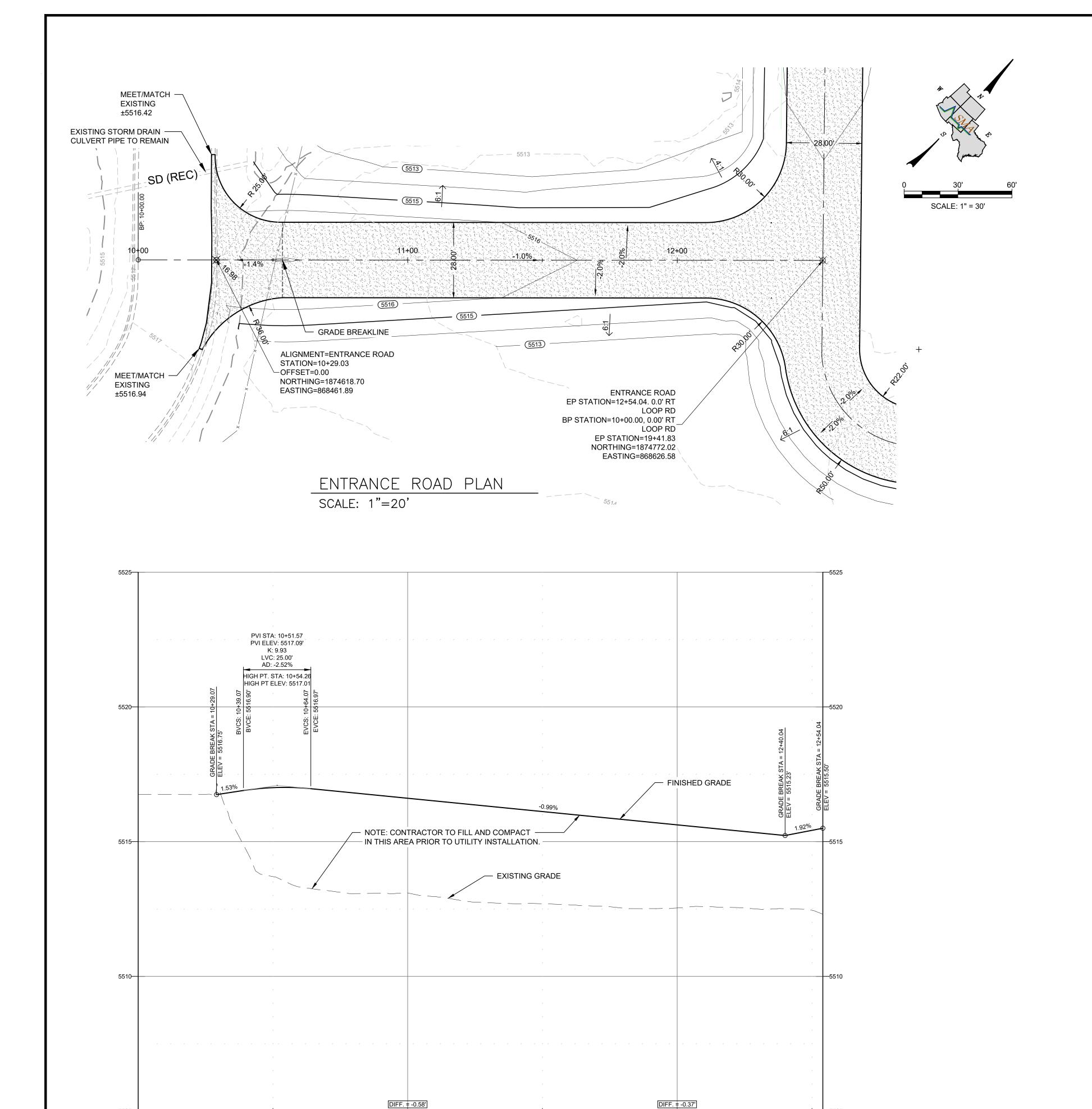
2"X2" WOOD POST. STANDARD OR BETTER EQUAL

ALTERNATE: STEEL FENCE POST

MATERIAL IN 6"X6" TRENCH

SILT FENCE DETAIL





ENTRANCE ROAD PROFILE SCALE: 1"=20"

NOTE:

CONTRACTOR TO FILL AND COMPACT IN THIS AREA PRIOR TO UTILITY INSTALLATION.

SURVEY NOTE:

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50852
FRANCISCO
HRUEJA

Signed M2124

CONA U.S.P.

Expires 6/30/25

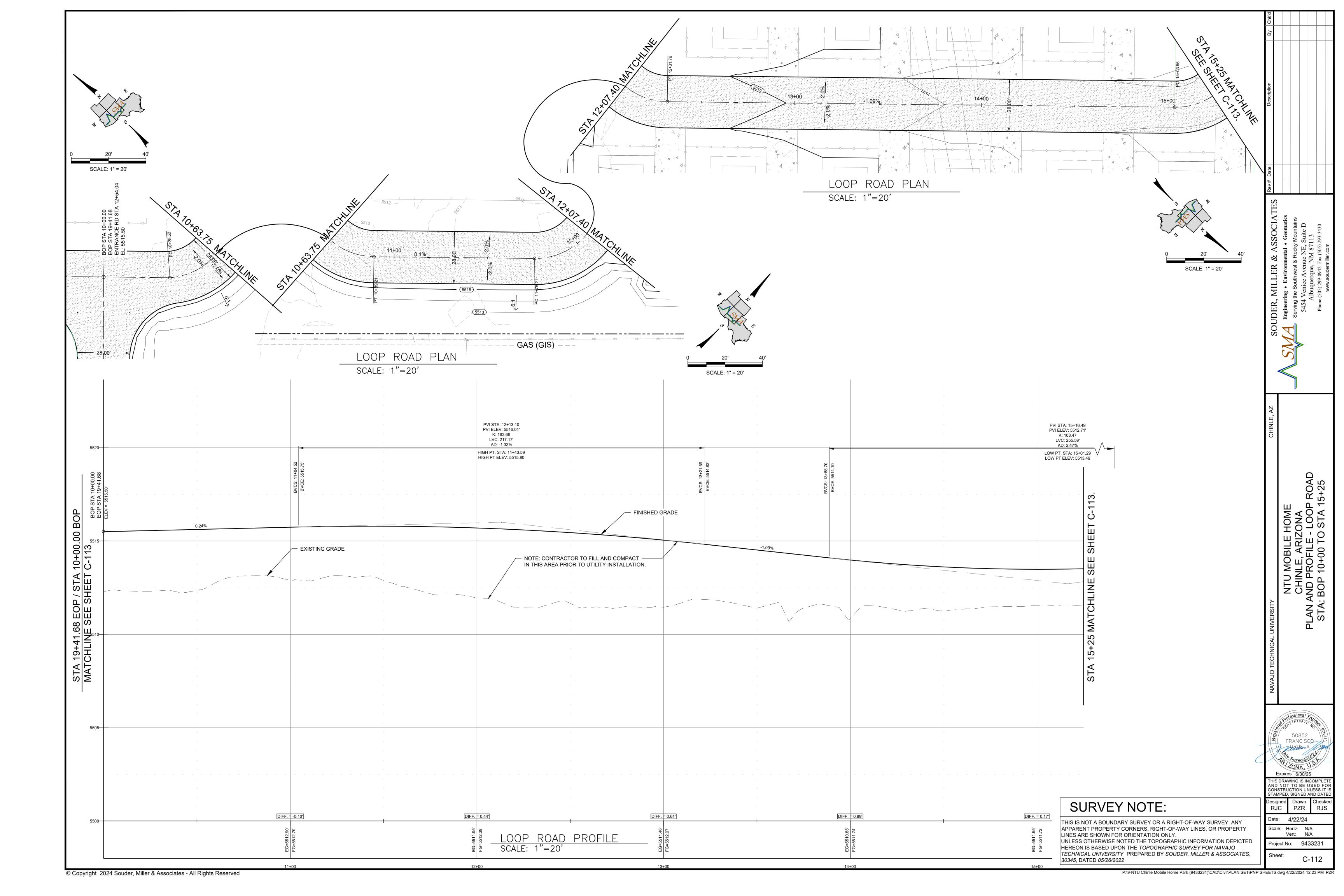
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STAMPED, SIGNED AND DATED

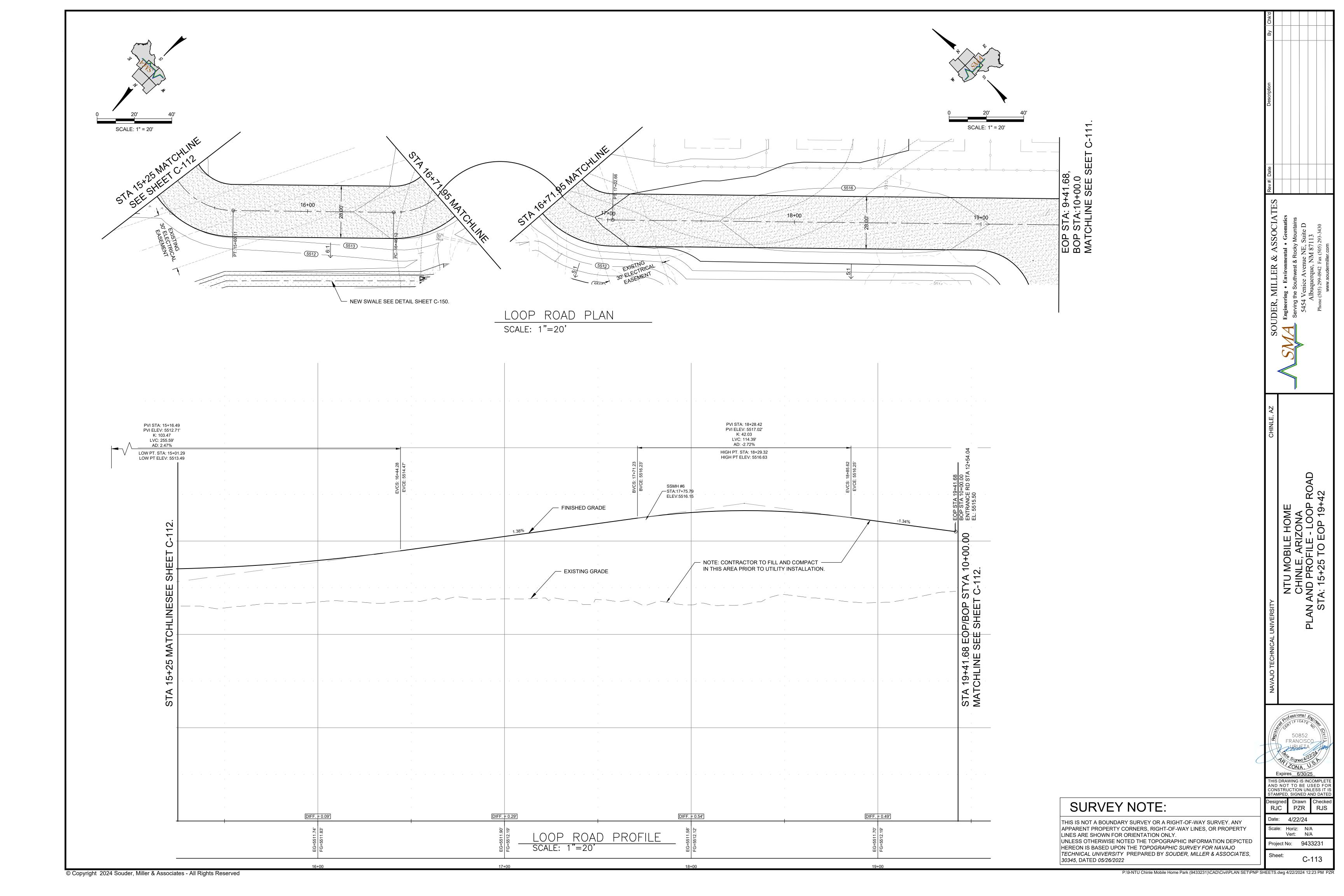
Designed Drawn Checked
RJC PZR RJS

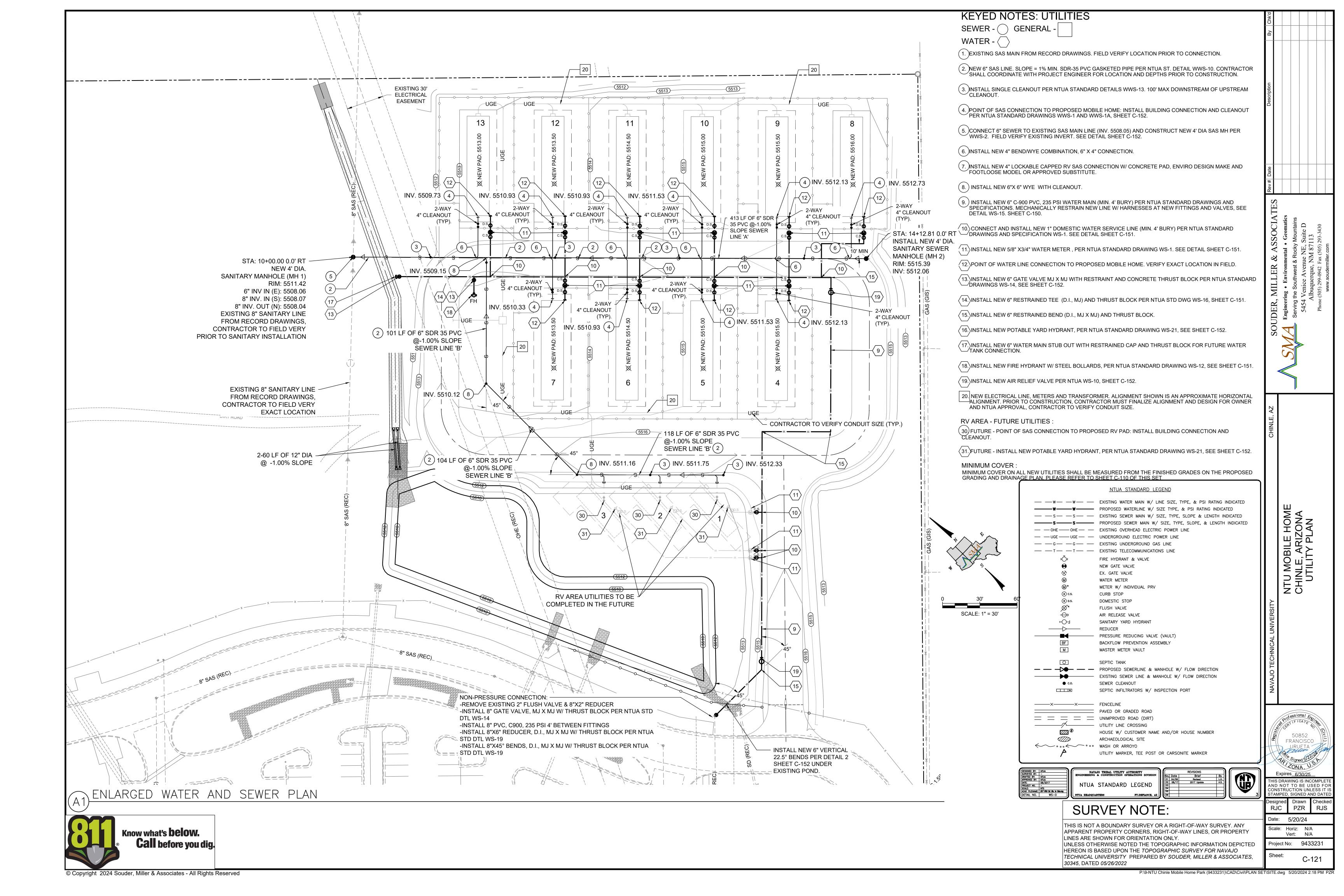
Date: 4/22/24

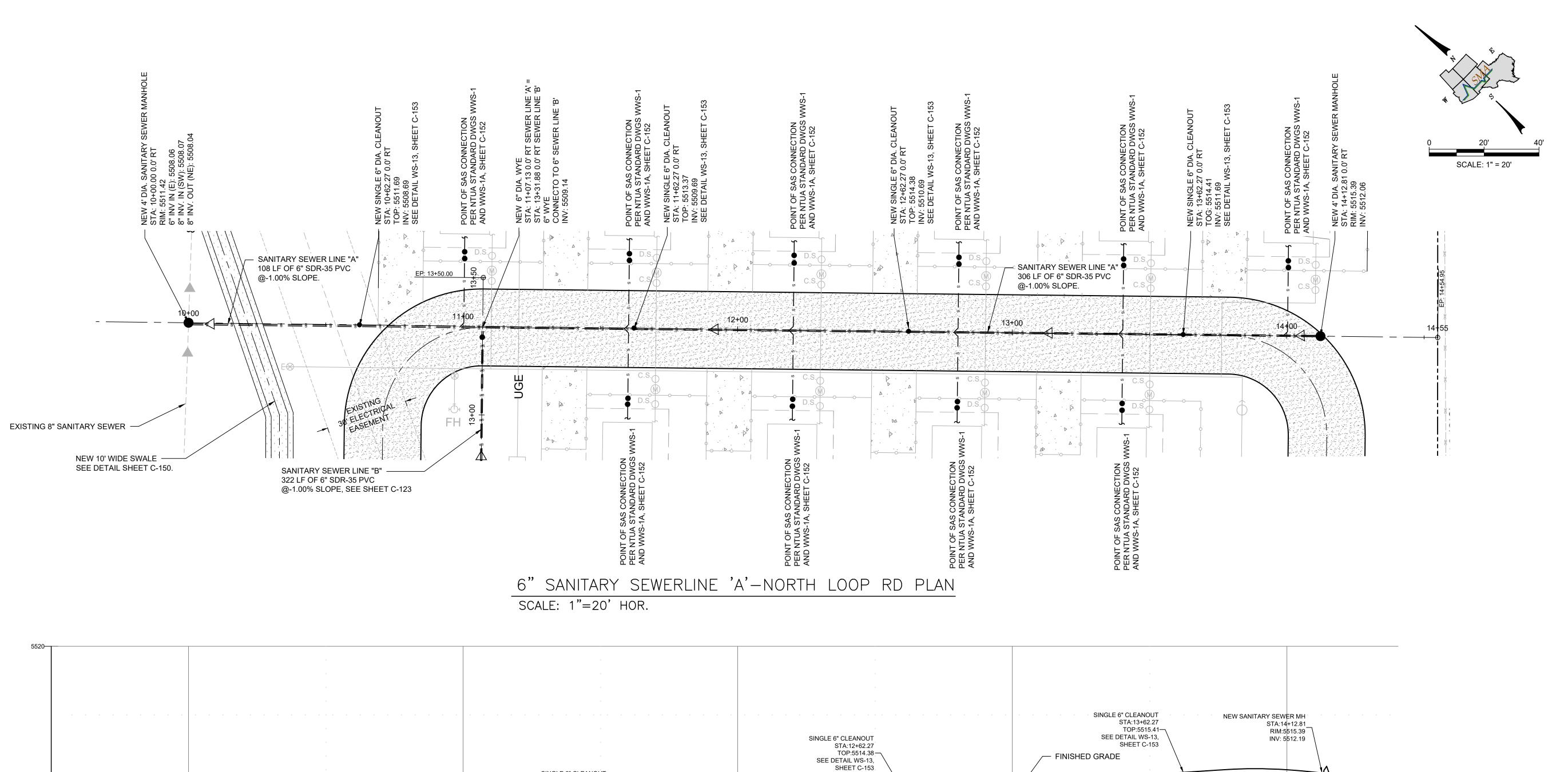
Scale: Horiz: N/A
Vert: N/A
Project No: 9433231

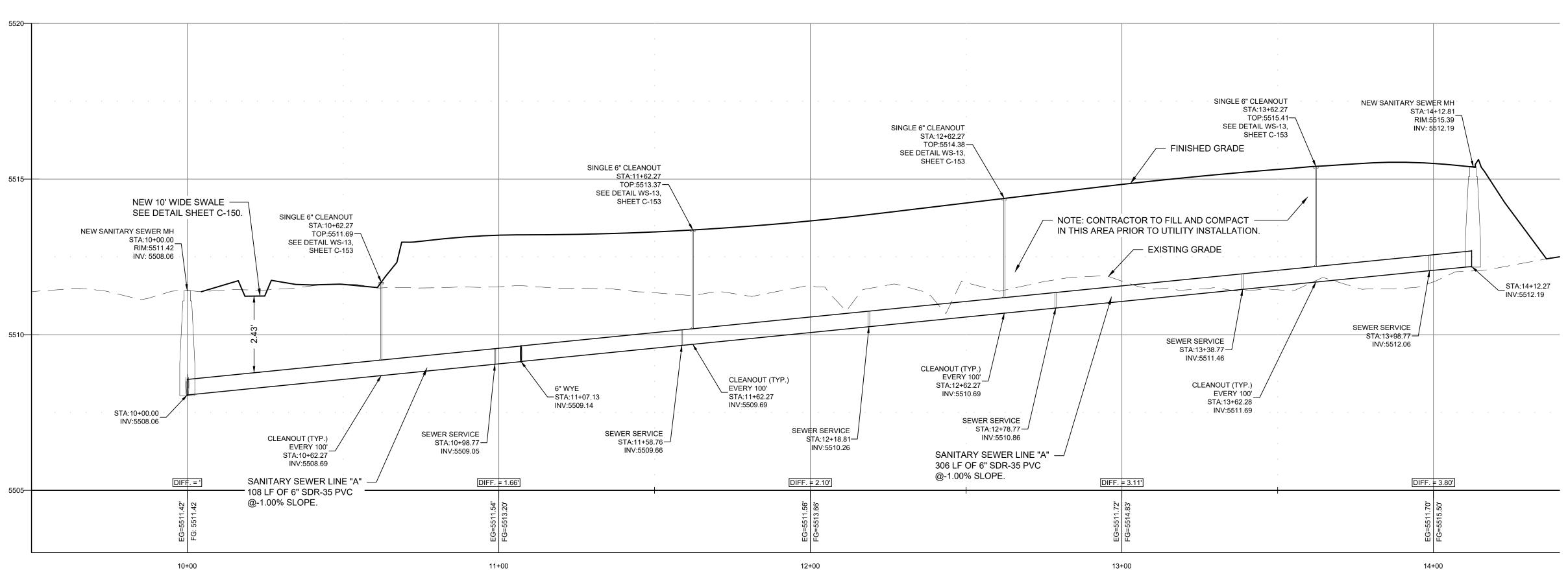
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6" SANITARY SEWERLINE 'A' - NORTH LOOP RD PROFILE

SCALE: 1"=20' HOR.
1"=2' VERT.

SURVEY NOTE:

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UNLESS OTHERWISE NOTED THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC SURVEY FOR NAVAJO TECHNICAL UNIVERSITY PREPARED BY SOUDER, MILLER & ASSOCIATES, 30345, DATED 05/26/2022

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 RJC
 PZR
 RJS

 Date:
 5/20/24

 Scale:
 Horiz:
 N/A

 Vert:
 N/A

 Project No:
 9433231

50852

FRANCISCO

Expires 6/30/25

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NTU MOBILE HOME CHINLE, ARIZONA RY SEWERLINE - NOR

SOUDER, MILLER & ASSOCIATES

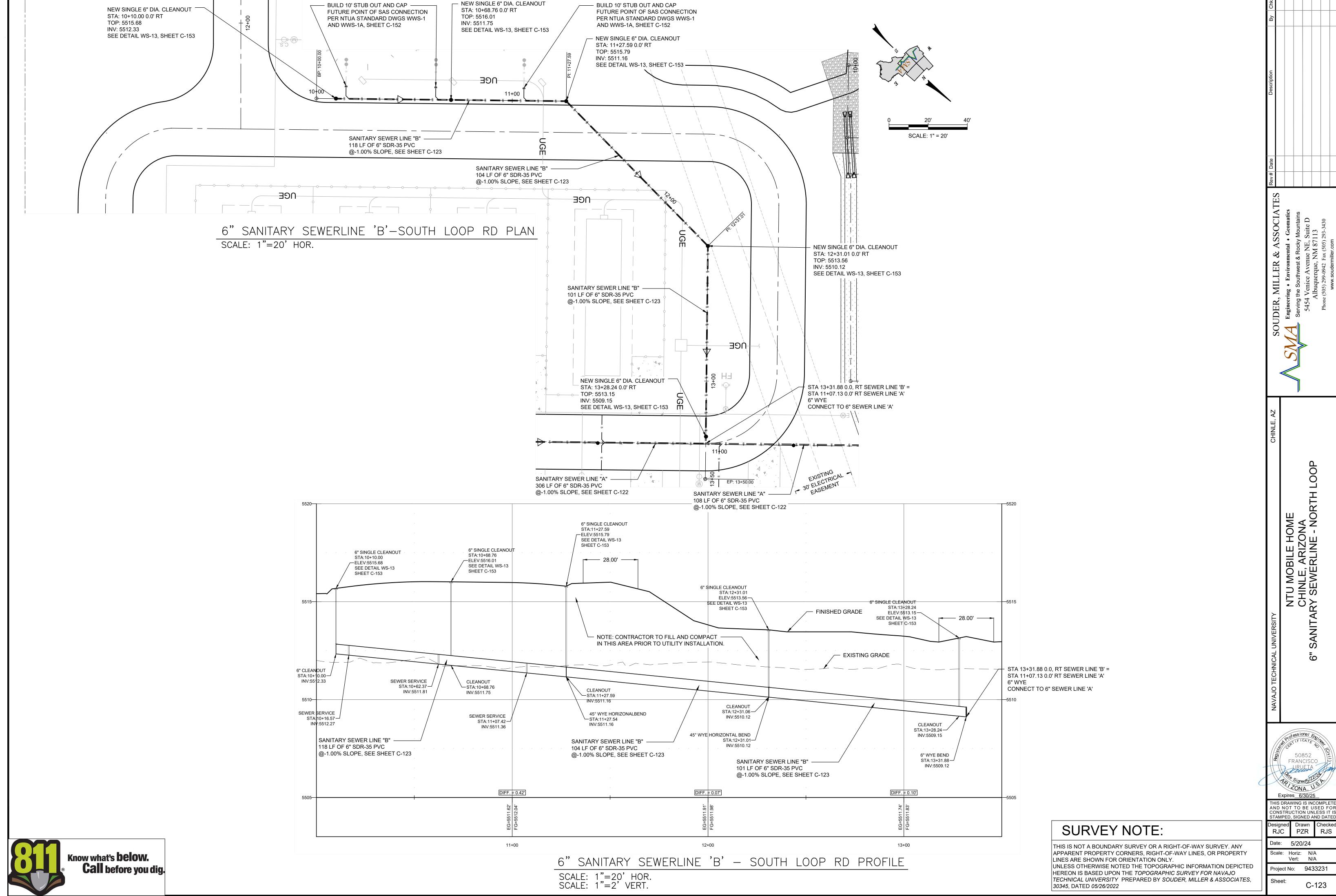
Engineering • Environmental • Geomatics

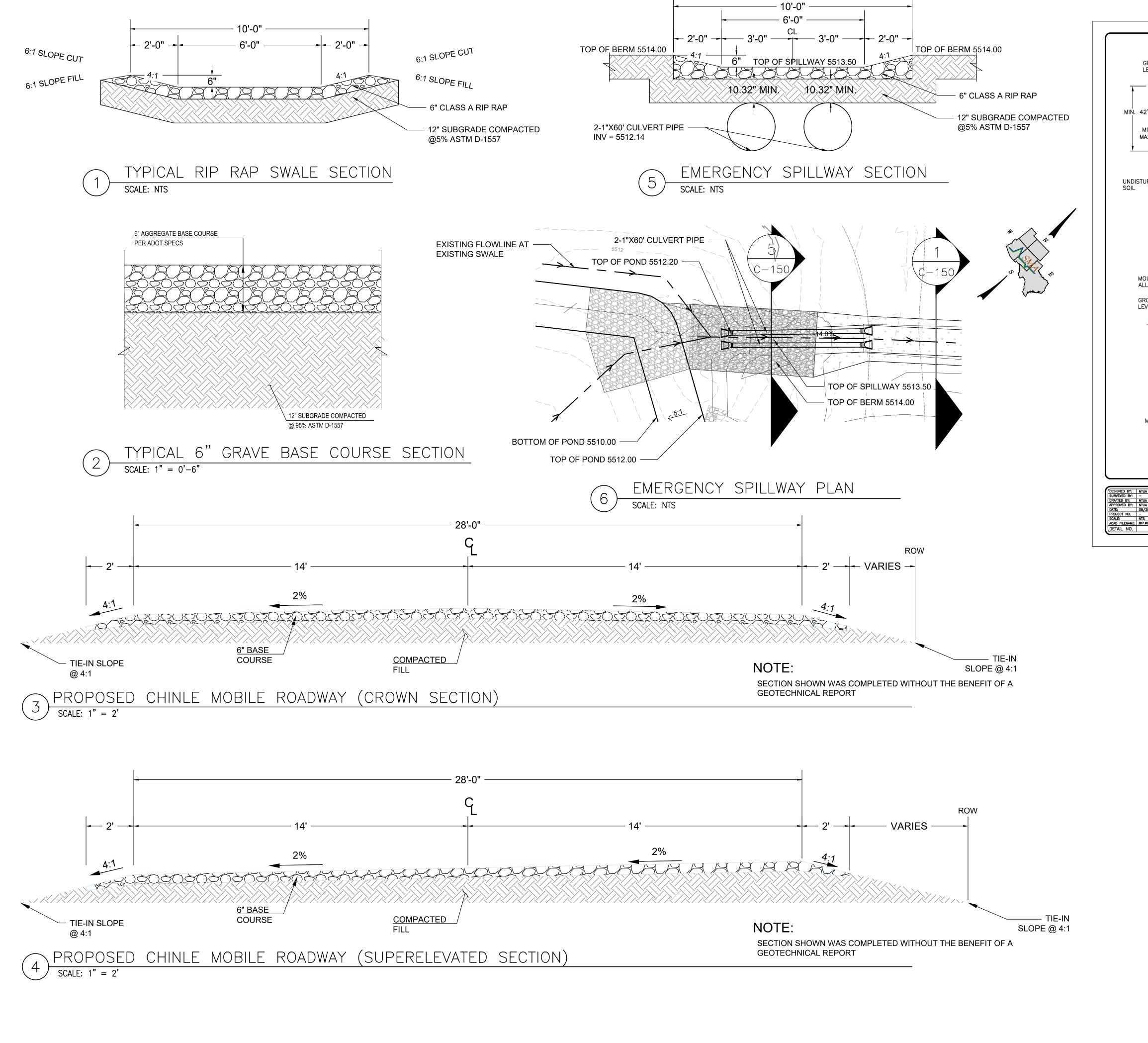
Serving the Southwest & Rocky Mountains

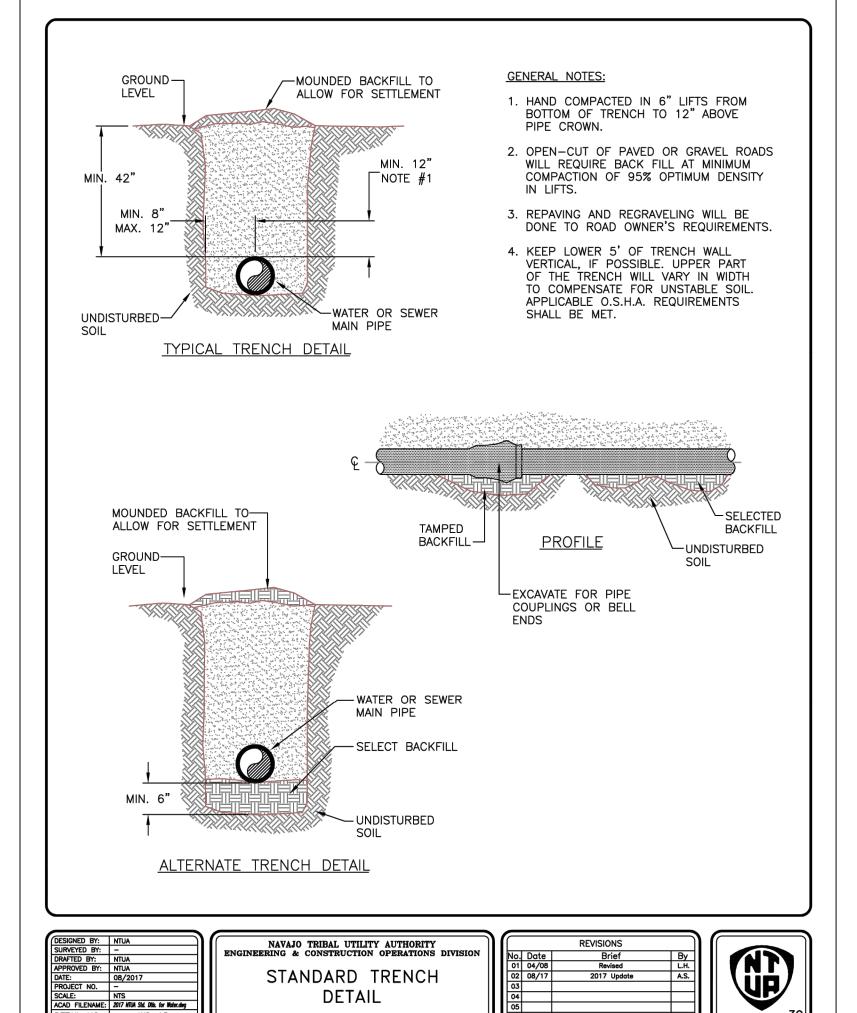
5454 Venice Avenue NE, Suite D

Albuquerque, NM 87113

C-122







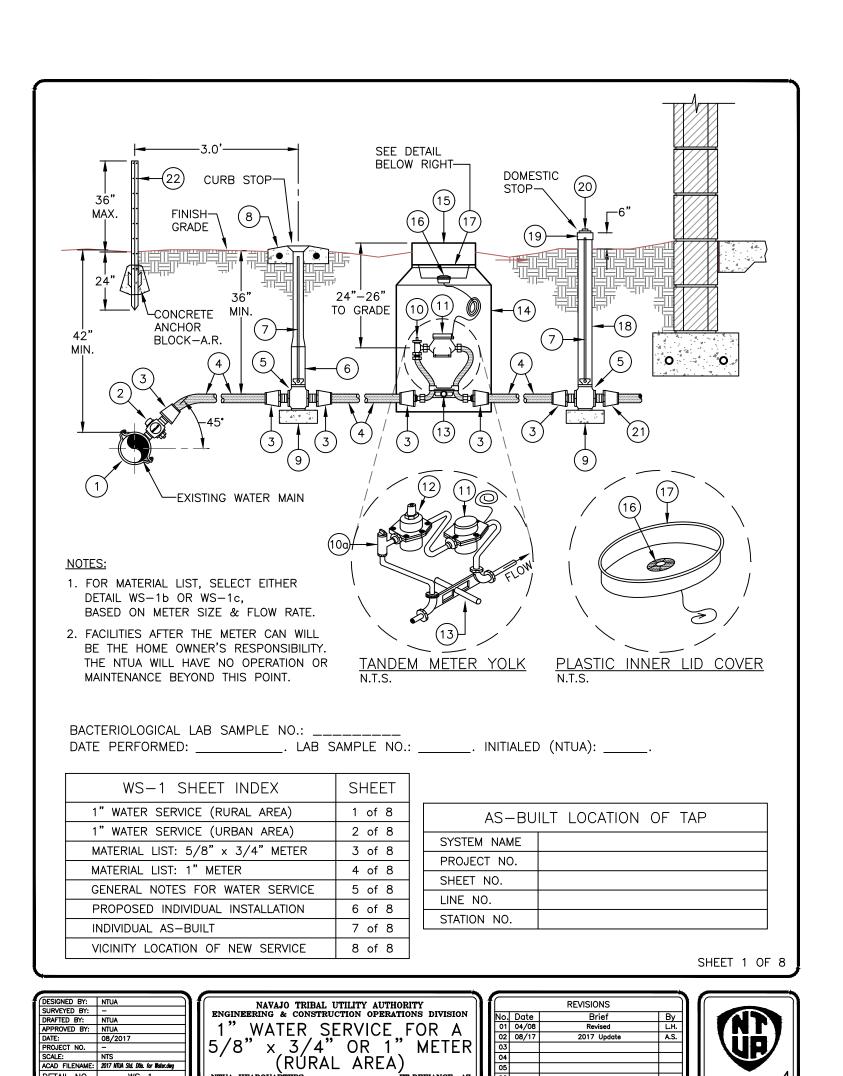
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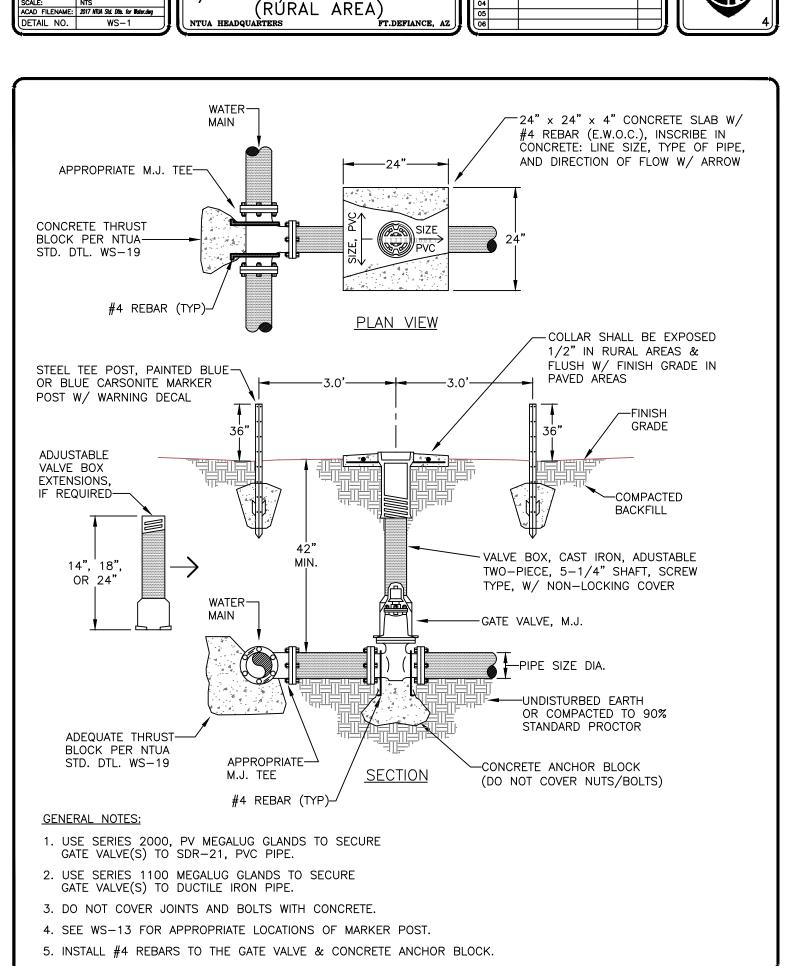
THIS IS NOT A BOUNDARY SURVEY OR A RIGHT-OF-WAY SURVEY. ANY APPARENT PROPERTY CORNERS, RIGHT-OF-WAY LINES, OR PROPERTY LINES ARE SHOWN FOR ORIENTATION ONLY. UNLESS OTHERWISE NOTED THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC SURVEY FOR NAVAJO TECHNICAL UNIVERSITY PREPARED BY SOUDER, MILLER & ASSOCIATES, 30345, DATED 05/26/2022

RJC PZR Date: 4/22/24 Scale: Horiz: N/A Vert: N/A Project No: 9433231

C-150

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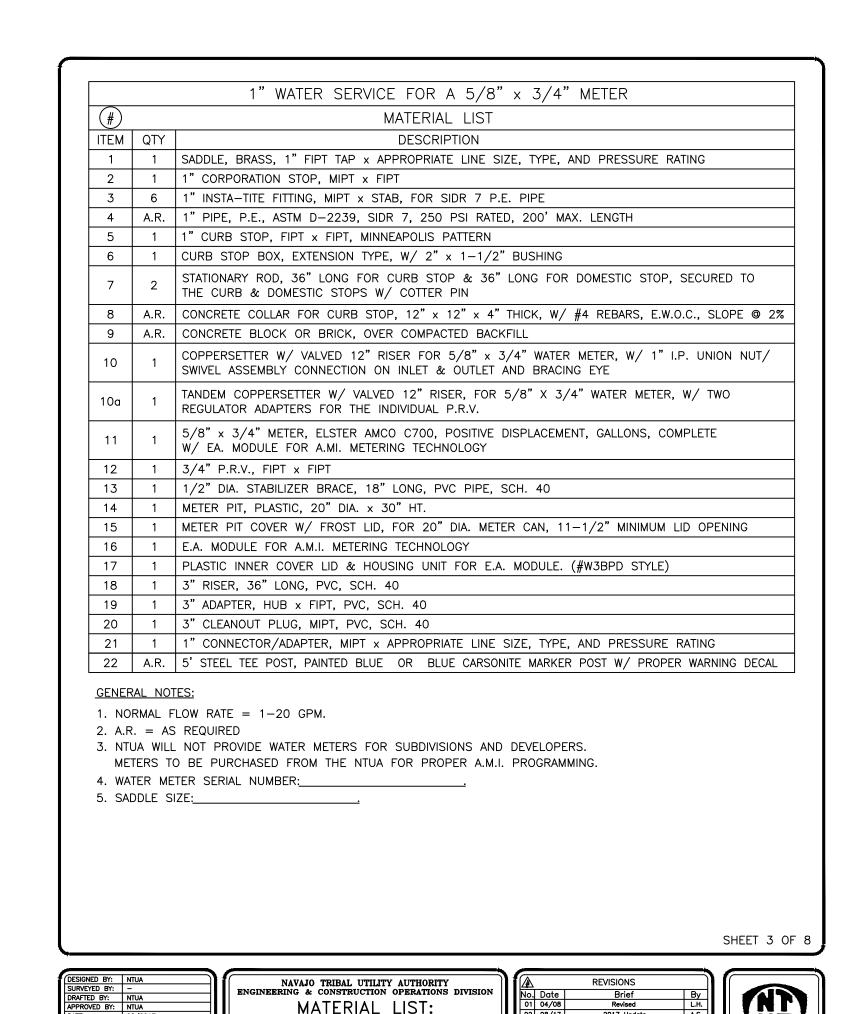


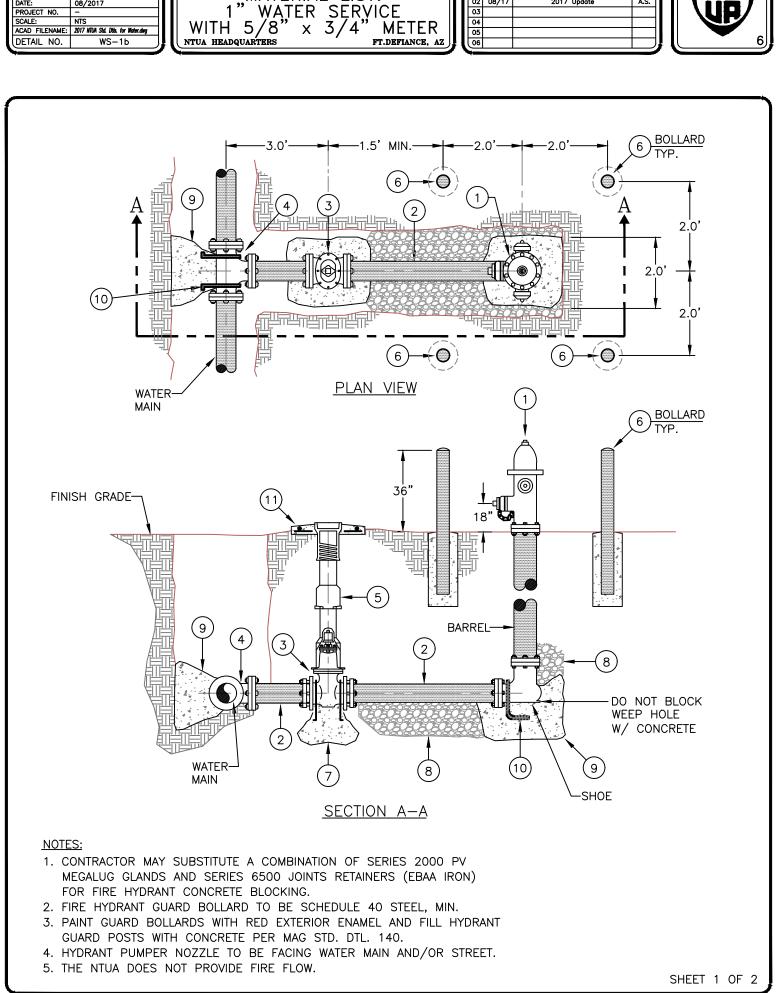


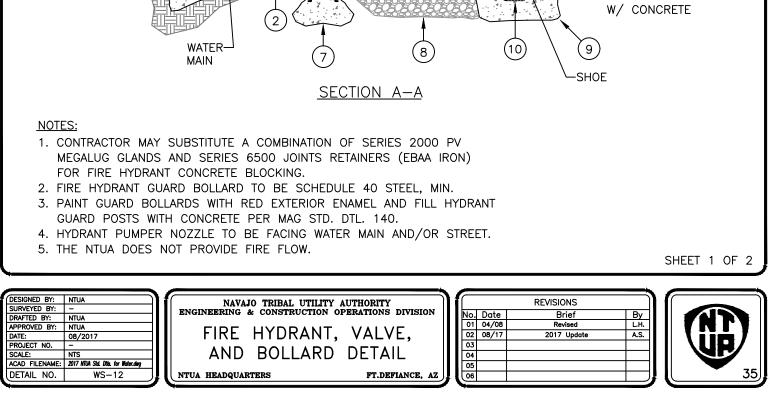
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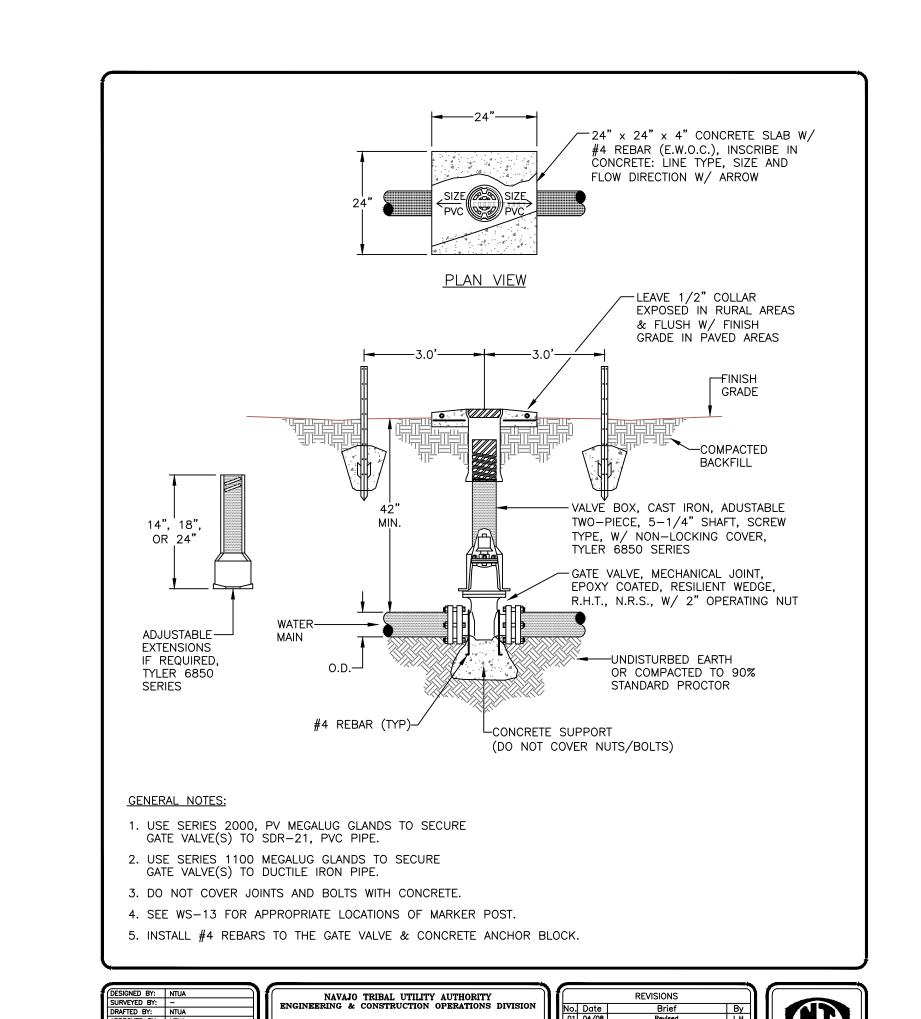
W/ GATE VALVE

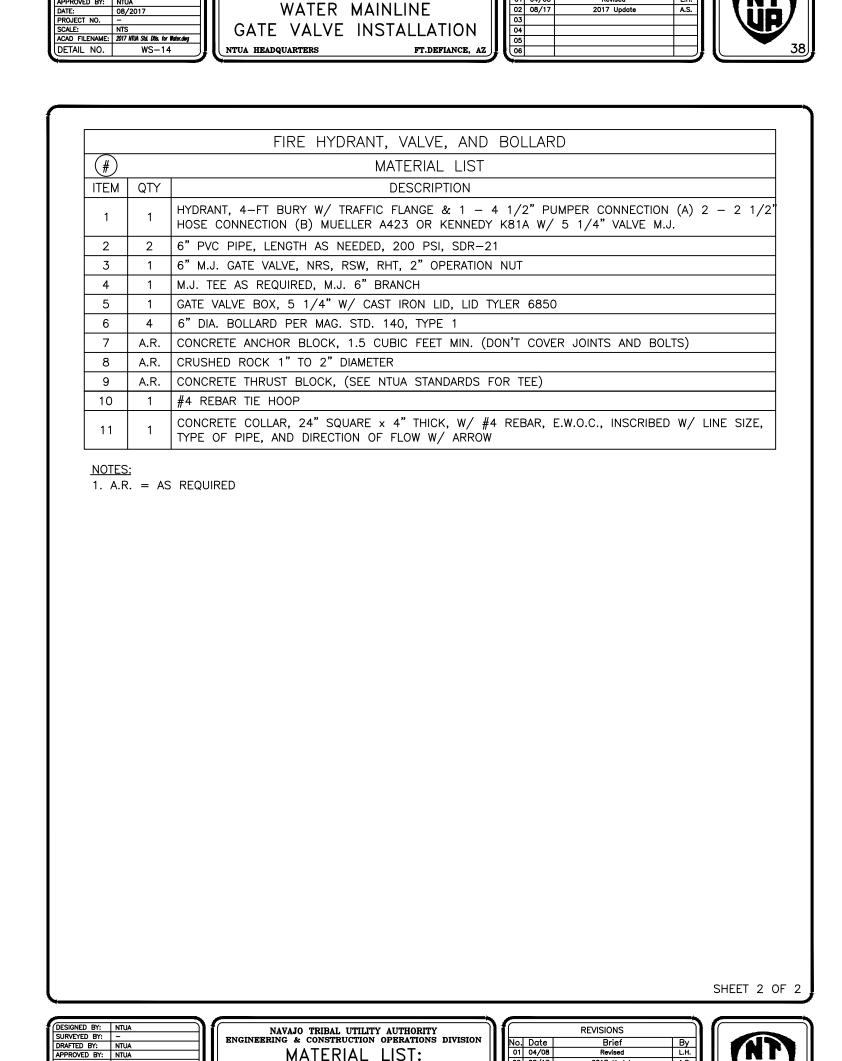
FT.DEFIANCE,







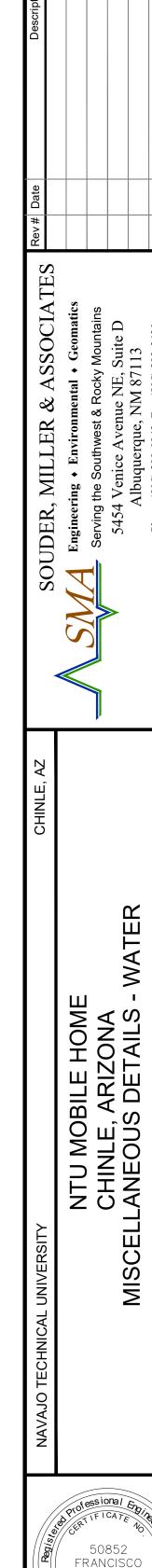




FIRE HYDRANT, VALVE,

AND BOLLARD

ACAD FILENAME: 2017 NTUA Std. Dtls. for Water.dwg



APIZONA.

Date: 4/22/24

Scale: Horiz: N/A

Vert: N/A

Project No: 9433231

RJC

Expires 6/30/25

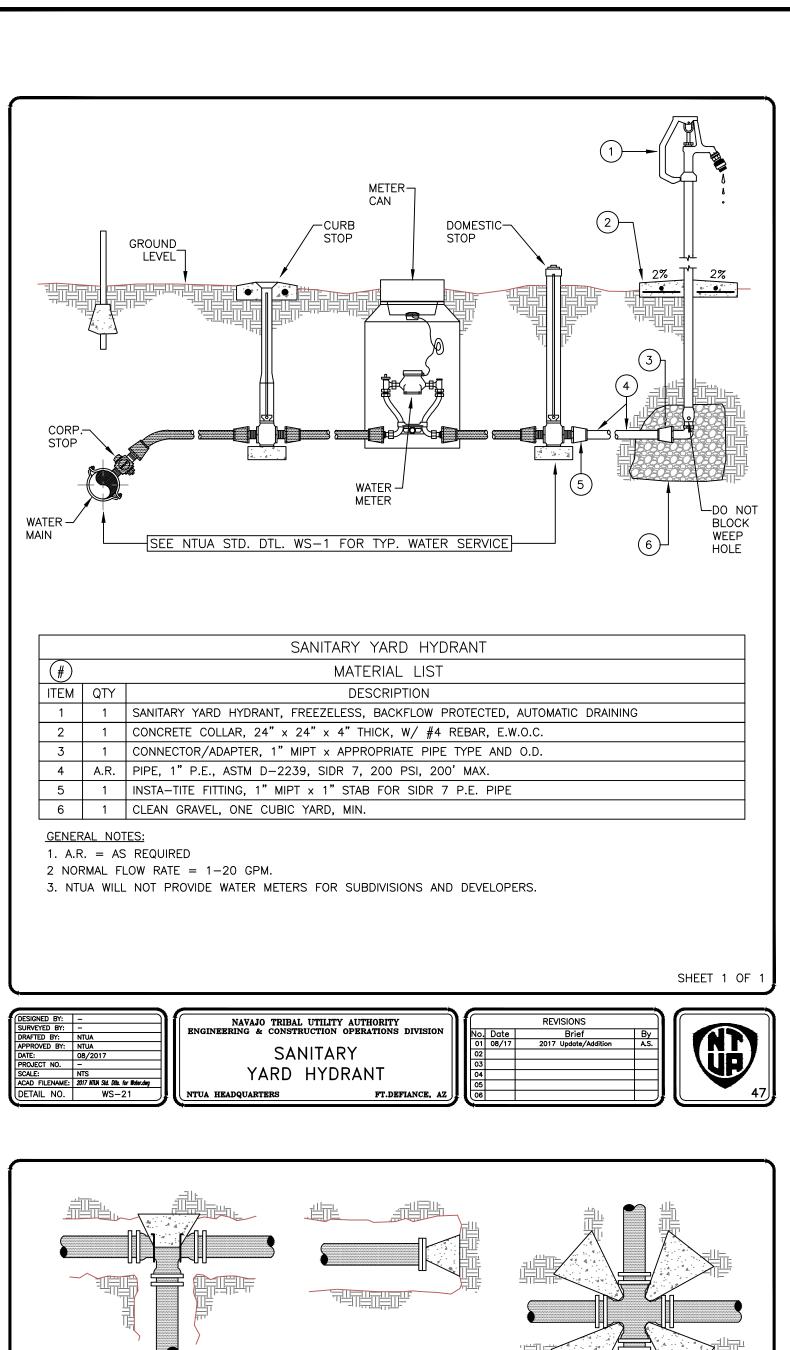
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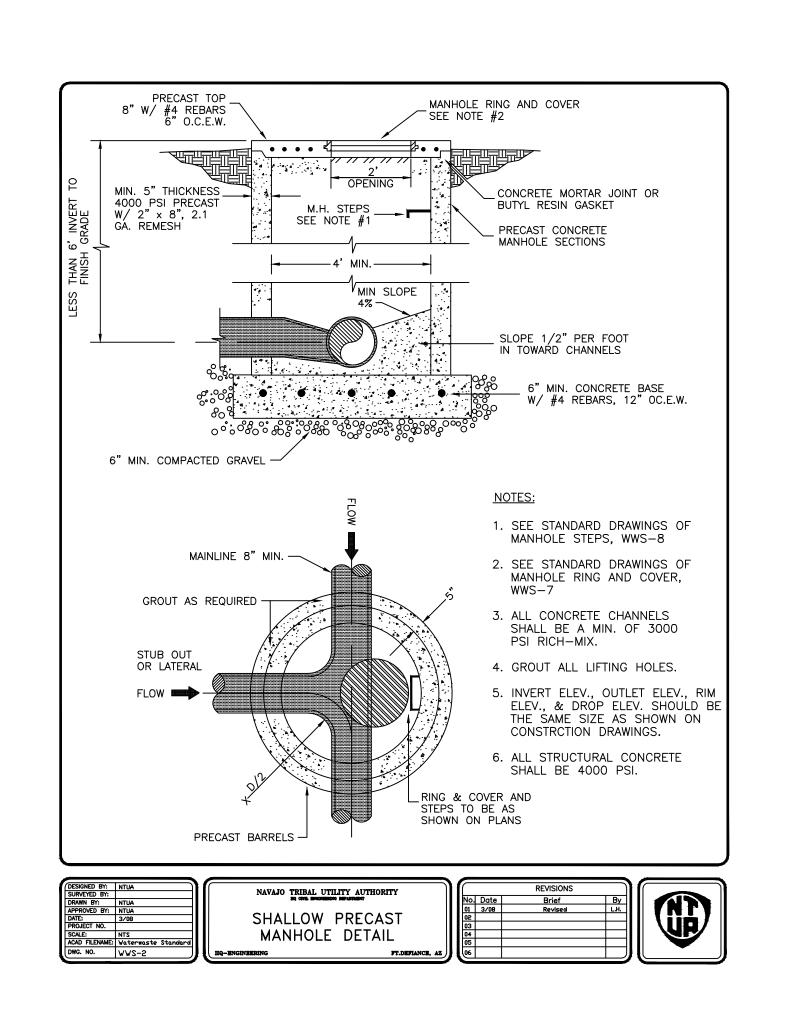
CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATE

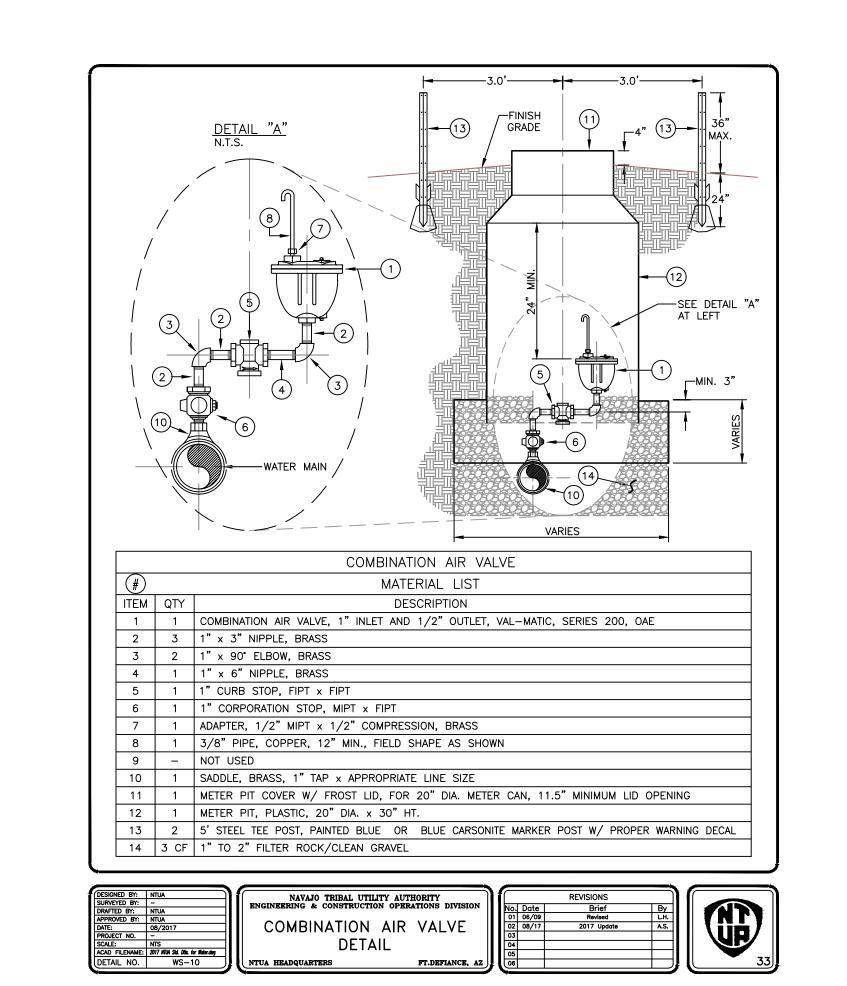
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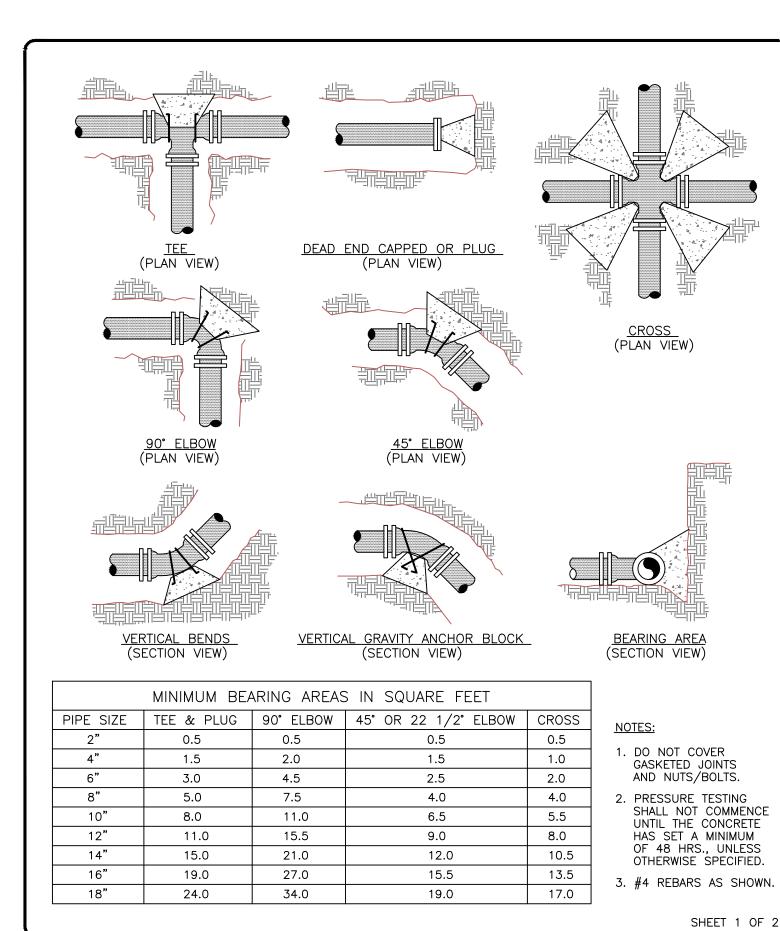
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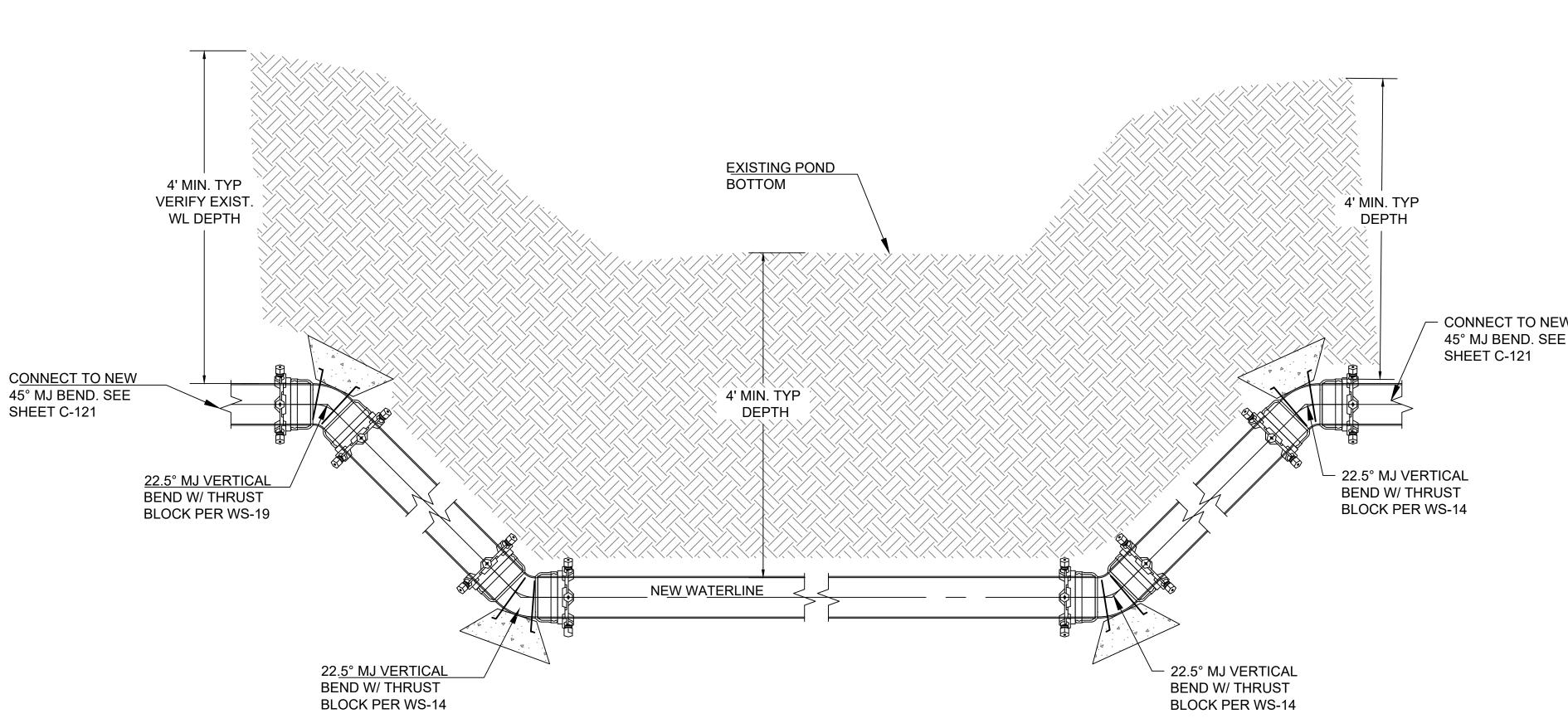


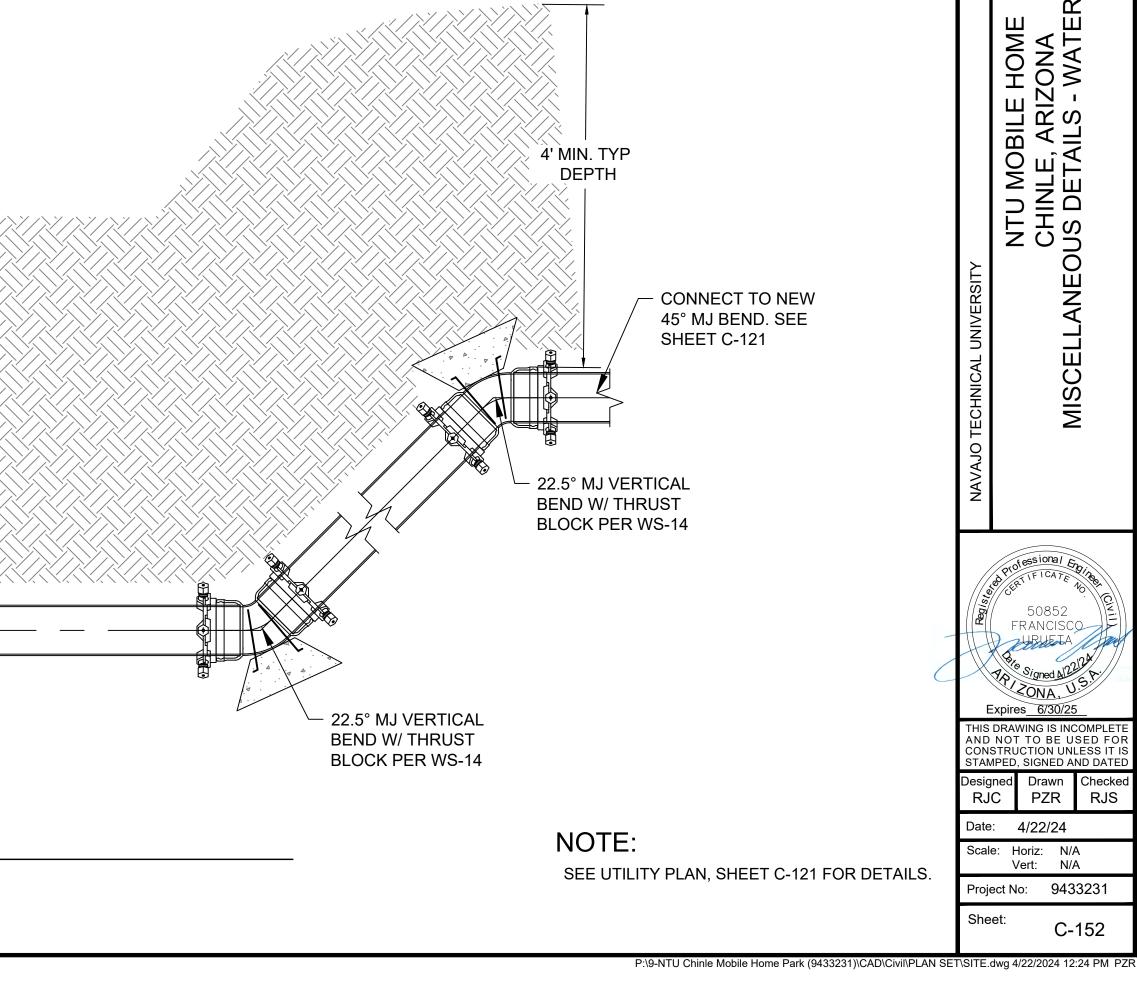


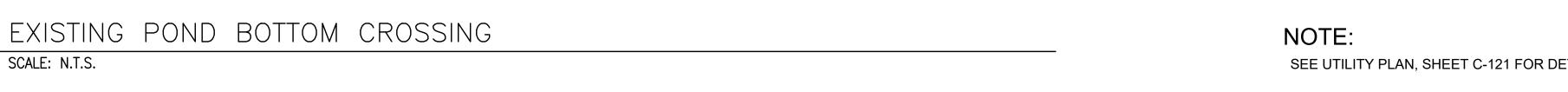
NAVAJO TRIBAL UTILITY AUTHORITY ERING & CONSTRUCTION OPERATIONS

CONCRETE THRUST

BLOCK DETAILS







ACAD FILENAME: 2017 NTUA Std. Dits. for Water.dwg
DETAIL NO. WS—19

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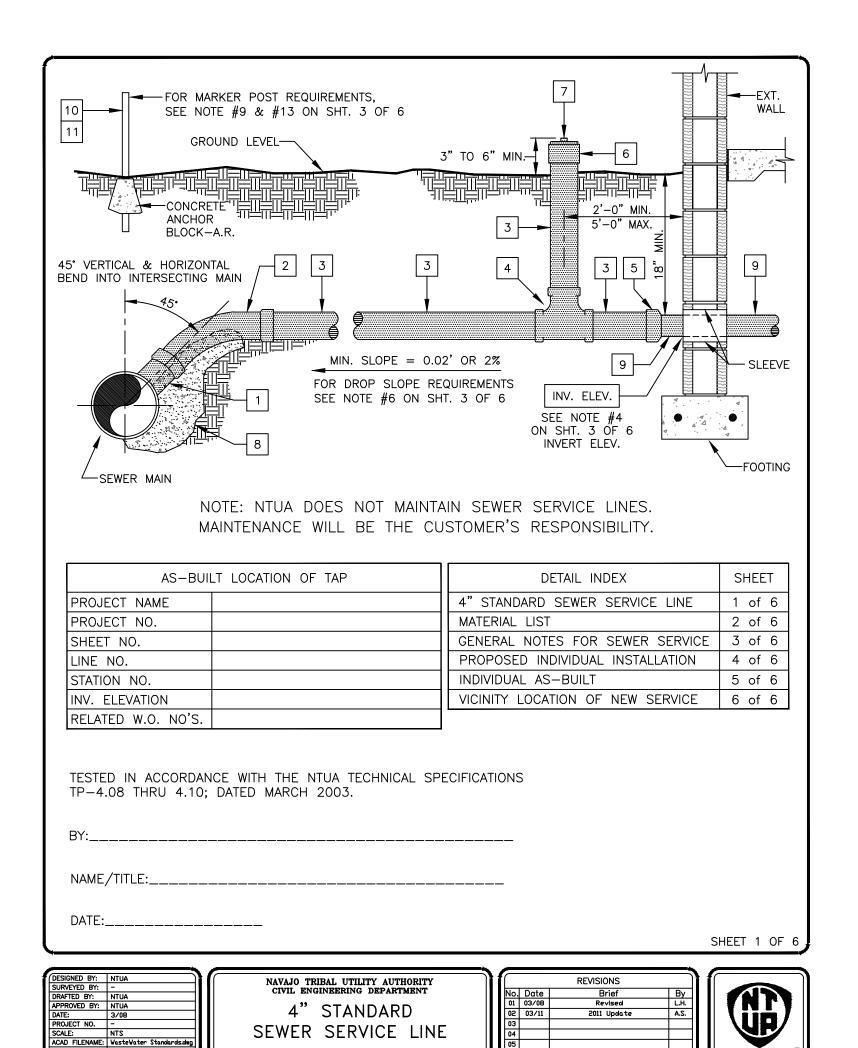
Date: 4/22/24

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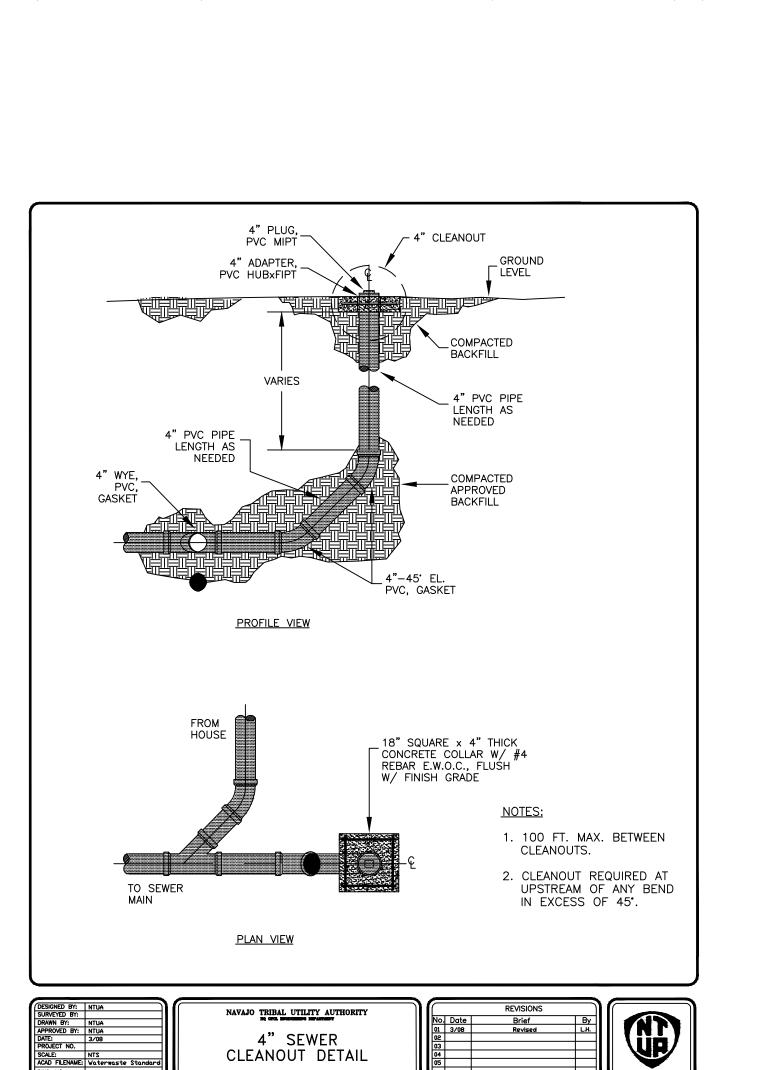
Project No: 9433231

Designed RJC

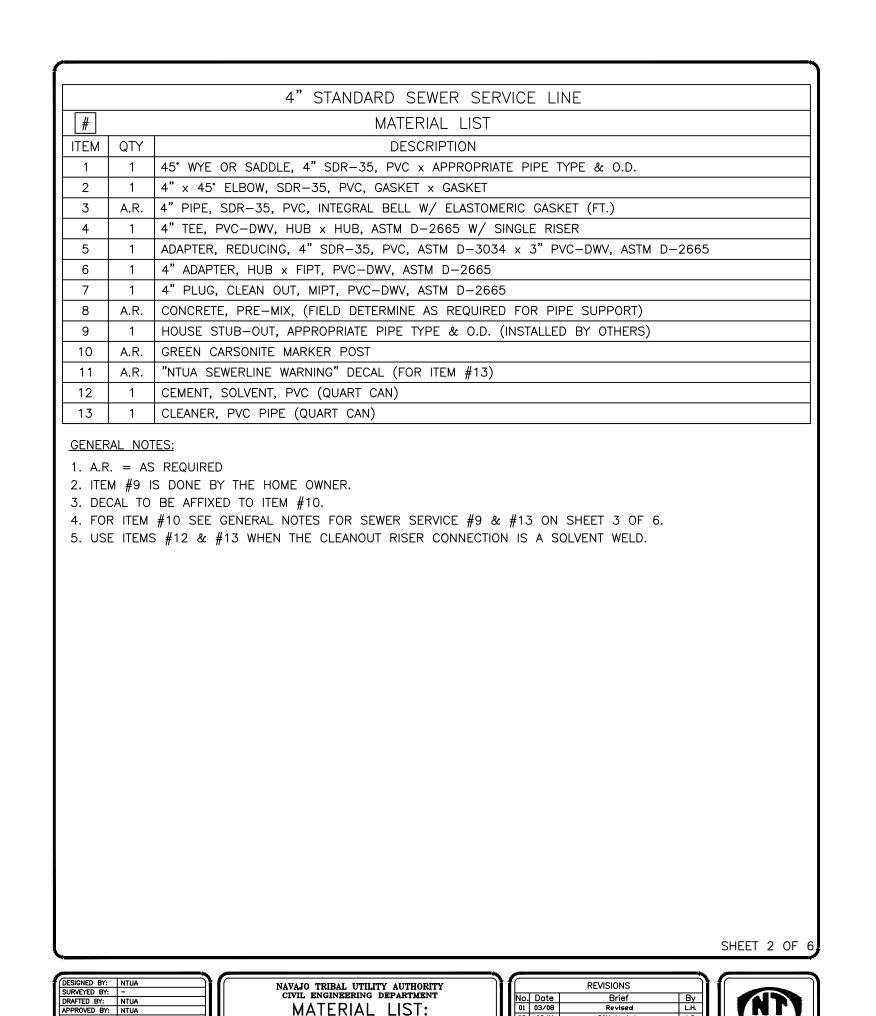
Drawn Checke PZR RJS



FT.DEFIANCE,



DETAIL NO. WWS-1

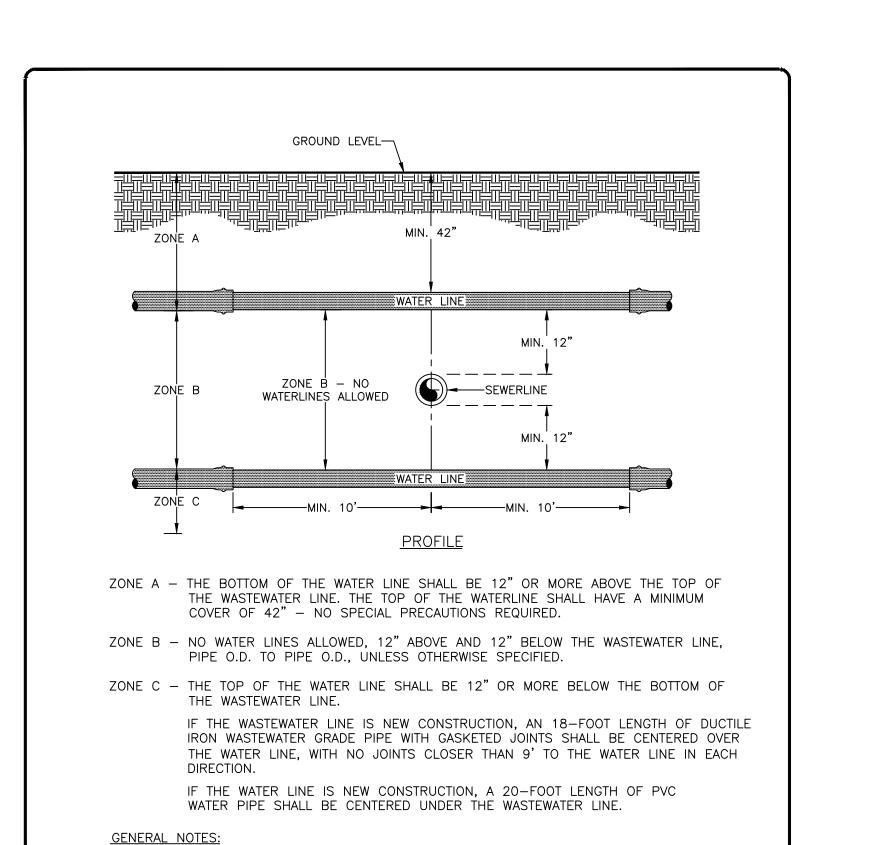


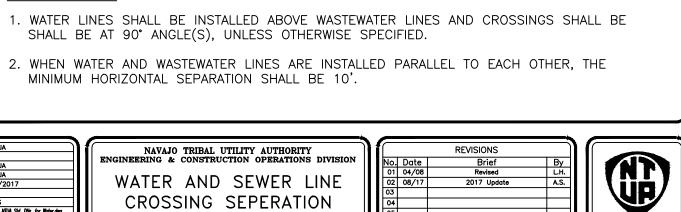
4" STANDARD

SEWER SERVICE LINE

FT.DEFIANCE,

E&TS HEADQUARTERS



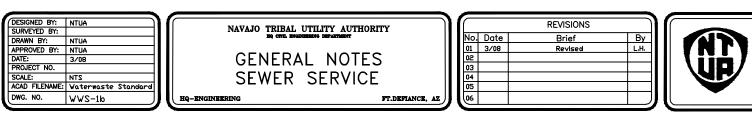


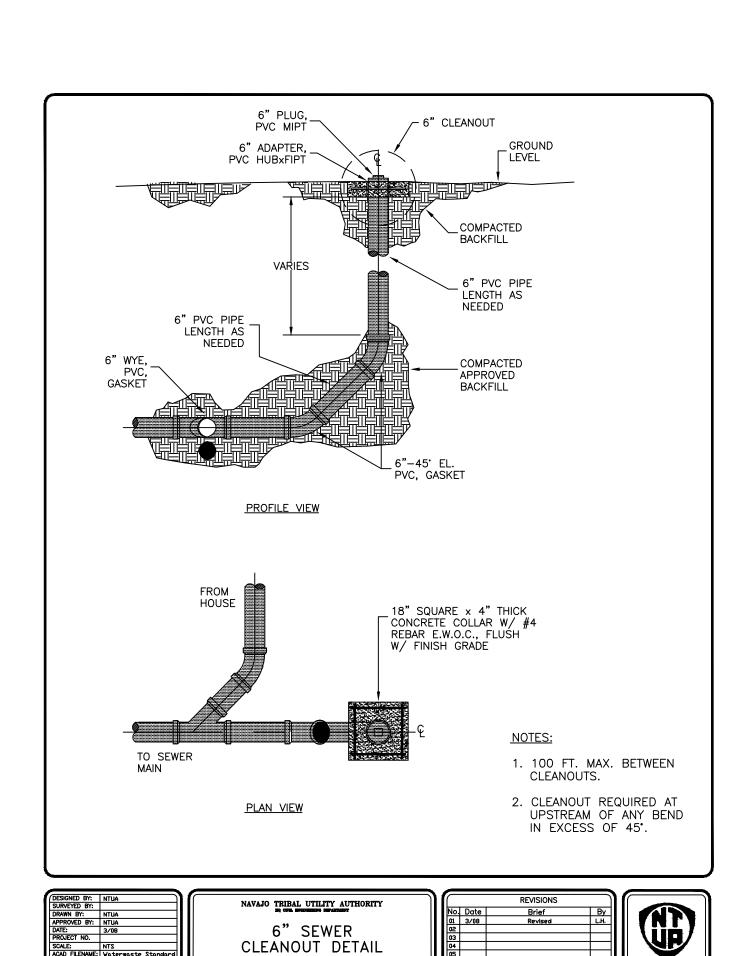
2011 Update

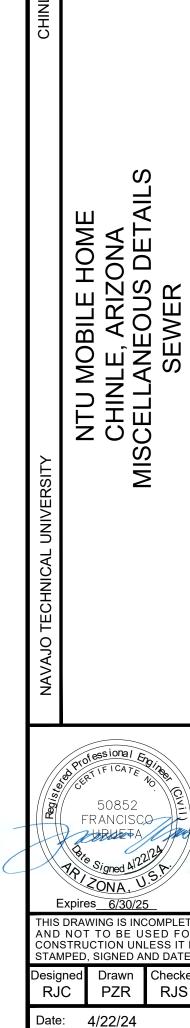
GENERAL NOTES:

- PROVIDE 10 FT. MINIMUM HORIZONTAL SEPARATION IN SEPARATE TRENCHES BETWEEN THE WATER AND SEWER SERVICES. PROVIDE 5 FT. MIN. HORIZONTAL SEPARATION BETWEEN THE SEWER SERVICE AND OTHER UTILITIES. IF SEWER SERVICE CROSSES OTHER SERVICES, SEE N.T.U.A CROSSING POLICY OR CONTACT N.T.U.A. HEADQUARTERS ENGINEERING.
- . SEWER CLEANOUTS ARE REQUIRED ON ALL BENDS IN EXCESS OF 45° AS PER PLUMBING CODE ADOPTED BY THE NAVAJO NATION. MODIFY MATERIAL LIST ACCORDINGLY AFTER CONSULTING WITH N.T.U.A. HEADQUARTERS ENGINEERING.
- . ADDITIONAL SEWER CLEANOUTS ARE REQUIRED ON SEWER SERVICES LONGER THAN 50 FT. AS PER UNIFORM PLUMBING CODE ADOPTED BY THE NAVAJO NATION. MODIFY MATERIAL LIST ACCORDINGLY AFTER CONSULTING WITH N.T.U.A. HEADQUARTERS ENGINEERING. EACH ADDITIONAL CLEANOUT IS AT THE CUSTOMERS EXPENSE INSTALL AT LEAST ONE CLEANOUT AS REQUIRED BY NOTE 2. IF CUSTOMER REQUEST FEWER AND REALIZES THIS VIOLATES NAVAJO TRIBAL CODE, THEN INSTALL PER THE CUSTOMER'S REQUEST AND SO NOTE ON THE INDIVIDUAL AS-BUILT, N.T.U.A. RECOMMENDS THAT CLEANOUTS BE SPACED NO MORE THAN 100°.
- 4. PROVIDE PROPOSED ELEVATION AT WALL. PROVIDE 6 IN. DIAMETER SLEEVE IF PIPING PENETRATES WALL OR 4 IN. DEPTH OF SAND BETWEEN FOOTING AND TOP OF PIPING IS BELOW THE FOOTING. ORDER ASTM D-1785 SCH. 40 PIPE WITH LENGTH AS NEEDED FOR THE SLEEVE. CONTACT N.T.U.A. HEADQUARTERS ENGINEERING ON PIPING SMALLER THAN 2 IN. IN SIZE.
- 5. STATE THE EXISTING PIPE TYPE AND O.D. (e.g. ASTM D-3034, SDR 35, PVC, 8. 40"). SADDLE IS TO HAVE A GASKET SEAL OR O-RING AND NON-CORRODIBLE STRAP SECURING SYSTEM.
- 6. MINIMUM SLOPE OF 1/4 INCH PER FOOT (2%) OR CONTACT N.T.U.A. HEADQUARTERS ENGINEERING.
- . BACKFILL IS TO BE HAND TAMPED (NO-MECHANICAL) AND COMPACTED IN 6 INCH LAYERS FOR AT LEAST 12 IN. ABOVE PVC PIPE. INSTALL PER ASTM D-2321 AND UNIFORM PLUMBING CODE ADOPTED BY THE NAVAJO NATION.
- 8. PROVIDE THE AS-BUILT AND SWING TIES FOR THE TAP POINT.
- 9. THE MATERIAL LIST SHALL BE MODIFIED IF A FIELD MARKER OF THE TAP POINT IS TO BE INSTALLED. UNDER THE AS-BUILT TIE INFORMATION. PROVIDE THE SURFACE DESCRIPTION OF THE TAP POINT (e.g. OPEN FIELD, PAVED ROAD, etc)
- 10. ITEM 12 IS USUALLY DONE BY THE HOME OWNER. ITEM 7 MUST BE COMPATIBLE WITH ITEM 12. ITEM 7 AS LISTED IS FOR A CONNECTION BETWEEN TWO LENGTHS OF 3 IN. PVC-DWV ASTM D-2665. IN THE MATERIALS LIST, ITEM 12 NEEDS TO BE COMPLETED AND ITEM 7 MODIFIED AS REQUIRED.
- 1. ORDER CONCRETE AS NEEDED. THE CONCRETE MAY BE ELIMINATED IF N.T.U.A. DISTRICT WATER FOREMAN AND ENGINEER DETERMINE FIELD CONDITIONS DO NOT REQUIRE THIS FOR ADEQUATE COMPACTION AND 4 IN. PIPE STRUCTURAL SUPPORT. MARK THE AS-BUILT DRAWING TO SHOW WHEN THE CONCRETE IS NOT USED.
- 12. FOR MULTIPLE BENDS, A CLEANOUT IS REQUIRED UPSTREAM FROM THE FIRST BEND THAT CAUSED THE CUMULATIVE ANGLE TO EXCEED 45°.

SHEET 3 OF







RJS

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Project No: 9433231

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the Southwest 8

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