

THIS DRAWING IS NOT VALID  
FOR CONSTRUCTION  
PURPOSES UNLESS IT BEARS  
THE SEAL OF A DULY  
REGISTERED PROFESSIONAL

90% SUBMITTAL



# WESTWATER WATER SYSTEM DESIGN

## REVISIONS

[illegible]

LINE IS 2 INCHES  
AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED: ---

CHECKED: ---

APPROVED: S. BRENCHLEY

FILENAME

G-000.DWG

BC PROJECT NUMBER  
1555-15158815  
PROJECT N

SCIENTIFIC PROJECT NUMBER

## GENERAL

## COVER SHEET

DRAWING NUMBER

G-000

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1

SHEET NUMBER  
OF

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22

Path: C:\BCP\W\0284\190 FILENAME: G-001.DWG PLOT DATE: 11/3/2023 11:01 AM CAD USER: DAVID DAVIDSE

DRAWING INDEX

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
GENERAL		
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2	G-001	DRAWING INDEX
3	G-002	STANDARD SYMBOLS
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CIVIL		
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11	C-101	PLAN AND PROFILE STA 100+00 TO STA 108+00
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18	C-108	PLAN AND PROFILE STA 307+00 TO STA 315+00
19	C-109	PLAN AND PROFILE STA 315+00 TO STA 323+00
20	C-110	PLAN AND PROFILE STA 323+00 TO STA 327+62.29
21	C-111	PLAN AND PROFILE STA 400+00 TO STA 407+00
22	C-112	PLAN AND PROFILE STA 407+00 TO STA 412+37.09
	SHEET 1 OF 1	NTUA WATERLINE EASEMENT EXHIBIT
	SHEET 1 OF 2	WESTWATER SUBDIVISION NTUA WATERLINE EASEMENT
	SHEET 2 OF 2	WESTWATER SUBDIVISION NTUA WATERLINE EASEMENT



SALT LAKE CITY, UTAH

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2 SHEET NUMBER OF 22





1	2	3	4	5	6
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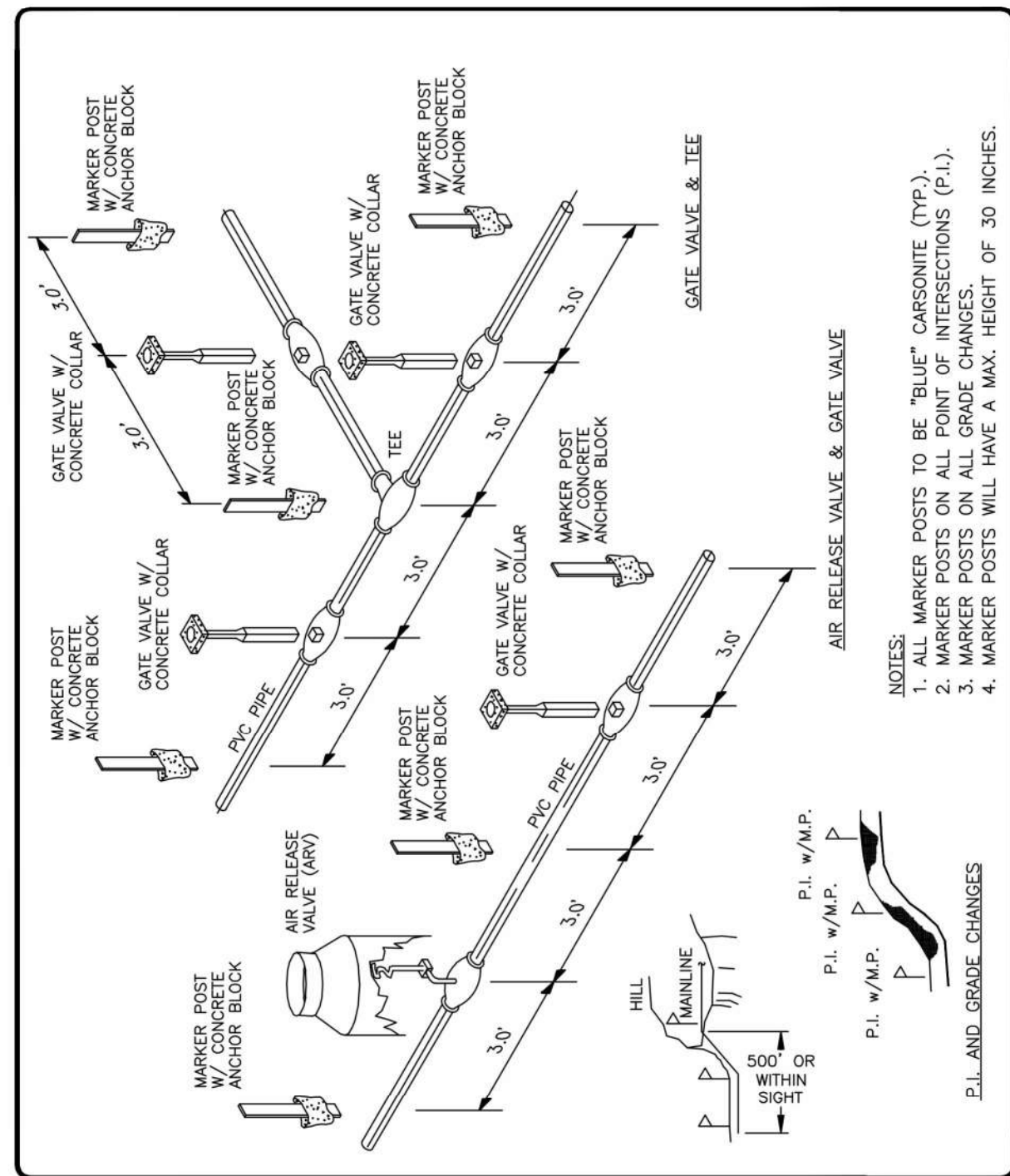
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CIVIL SYMBOLS		GENERAL CIVIL NOTES									
<div><div><div><div><div></div><div>W</div></div><div></div></div><div>WATERLINE</div></div><div><div><div><div><div></div><div>W</div></div><div></div></div><div>EXISTING WATERLINE</div></div><div><div><div><div><div></div><div>OHP</div></div><div></div></div><div>OVERHEAD POWER LINE</div></div><div><div><div><div><div></div><div>OHP</div></div><div></div></div><div>EXISTING OVERHEAD POWER LINE</div></div><div><div><div><div><div></div><div>UGTEL</div></div><div></div></div><div>EXISTING UNDERGROUND TELEPHONE LINE</div></div><div><div><div><div><div></div><div>G</div></div><div></div></div><div>EXISTING GAS LINE</div></div><div><div><div><div><div></div><div>O</div></div><div></div></div><div>FENCE</div></div><div><div><div><div><div></div><div>X</div></div><div></div></div><div>EXISTING FENCE</div></div><div><div><div><div><div></div><div>6700</div></div><div></div></div><div>CONTOUR LINE</div></div><div><div><div><div><div></div><div>6700</div></div><div></div></div><div>EXISTING CONTOUR LINE</div></div><div><div><div><div><div></div><div></div></div><div></div></div><div>GATE VALVE</div></div><div><div><div><div><div></div><div>WV</div></div><div></div></div><div>EXISTING GATE VALVE</div></div><div><div><div><div><div></div><div></div></div><div></div></div><div>WELL</div></div><div><div><div><div><div></div><div></div></div><div></div></div><div>EXISTING WELL</div></div><div><div><div><div><div></div><div></div></div><div></div></div><div>POWER POLE</div></div><div><div><div><div><div></div><div></div></div><div></div></div><div>EXISTING POWER POLE</div></div><div><div><div><div><div></div><div></div></div><div></div></div><div>EXISTING GUY WIRE</div></div><div><div><div><div><div></div><div></div></div><div></div></div><div>REDUCER</div></div><div><div><div><div><div></div><div>D</div></div><div></div></div><div>EXISTING REDUCER</div></div><div><div><div><div><div></div><div></div></div><div></div></div><div>FLUSH VALVE</div></div><div><div><div><div><div></div><div></div></div><div></div></div><div>AIR RELEASE VALVE</div></div><div><div><div><div><div></div><div></div></div><div></div></div><div>SURVEY MARKING</div></div><div><div><div><div><div></div><div></div></div><div></div></div><div>WATER LINE CASING</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>		<div>GENERAL NOTES</div> <div><div><div>1. CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) ALL EXISTING UTILITIES (VERTICAL AND HORIZONTAL LOCATION), CONDUITS, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS PRIOR TO THE START OF WORK.</div><div>2. FENCES, SIGNS, CURBS, LIGHT POLES, IRRIGATION PIPING, CONTROL WIRING, AND SPRAY HEADS, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT. ALL DISTURBED AREAS INCLUDING CONCRETE STEPS, TIMBER STEPS, RETAINING WALLS, CONCRETE SIDEWALKS, PAVEMENT, LIGHT POSTS, CURBS, UNDERGROUND PIPING AND STRUCTURES SHALL BE RESTORED TO MATCH EXISTING UNLESS OTHERWISE NOTED.</div><div>3. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE LIMIT OF WORK SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.</div><div>4. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, AND EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.</div><div>5. THE CONTRACTOR SHALL GRADE PROPOSED SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS.</div><div>6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL DEVICES.</div><div>7. THE CONTRACTOR SHALL NOTIFY NTUA AT LEAST 72 HOURS PRIOR TO EXCAVATING NEAR ANY UTILITIES.</div><div>8. CONTRACTOR LAYOUT AREAS SHALL BE COORDINATED AND APPROVED BY THE CONSTRUCTION MANAGER AND NTUA. LIMITED SPACE IS AVAILABLE WITHIN THE SITE. NTUA SHALL NOT BE RESPONSIBLE FOR PROTECTING OR SECURING CONTRACTOR LAYOUT AND STORAGE AREAS, AND OWNER SHALL NOT BE LIABLE FOR THEFT OR DAMAGE TO CONTRACTORS STORED MATERIALS OR EQUIPMENT.</div><div>9. ALL EXISTING UTILITY INFORMATION WAS OBTAINED FROM SOUTH EASTERN UTAH HEALTH DEPARTMENT, INDIVIDUAL HOME OWNERS, NAVAJO AREA INDIAN HEALTH SERVICES (NAIHS), NTUA AND FIELD SURVEY. THIS INFORMATION MAY NOT BE COMPLETELY ACCURATE OR INDICATE ALL OF THE UTILITIES, UNDERGROUND PIPING, OR BURIED STRUCTURES PRESENT.</div><div>10. ALL TRENCH EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING. COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE CONSTRUCTION MANAGER.</div><div>11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).</div><div>12. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING ANY NECESSARY COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS.</div></div></div>		<div>SITE GRADING NOTES</div> <div><div><div>1. STRIPPING OF TOPSOIL SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02200 EARTHWORK.</div><div>2. ALL ROAD AND PARKING AREA SURFACES SHALL PITCH 2 PERCENT MINIMUM UNLESS OTHERWISE NOTED.</div><div>3. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP.</div><div>4. ALL CATCH BASINS, MANHOLES, VALVE PITS, VALVE BOXES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.</div><div>5. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS AND EXCESS EXCAVATED MATERIAL FROM WITHIN THE CONSTRUCTION LIMIT OF WORK, TO A SUITABLE SITE IN COMPLIANCE WITH SAN JUAN COUNTY REGULATIONS.</div><div>6. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE CONSTRUCTION MANAGER.</div><div>7. CONTRACTOR TO REGRADE, AND RESEED ALL DISTURBED AREAS PER CONSTRUCTION MANAGER AND PER SPEC 02270.</div></div></div>		<div>SITE PIPING NOTES (CONT'D.)</div> <div><div><div>4. A MINIMUM OF 48-INCHES OF COVER REQUIRED ON PIPES UNLESS NOTED OTHERWISE.</div><div>5. REFER TO SPECIFICATION SECTION 02200 AND CIVIL DETAILS FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.</div><div>6. COMPACTION TESTS WILL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02200, EARTHWORK. ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.</div><div>7. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL EXCAVATE A TEST PIT TO VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION BEFORE ORDERING MATERIALS.</div><div>8. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION.</div><div>9. POTABLE WATER LINES SHOULD BE INSTALLED OVER WASTEWATER LINES. A MINIMUM SEPARATION OF 18 INCHES BETWEEN THE BOTTOM OF THE POTABLE WATER LINE AND THE TOP OF THE WASTEWATER LINE SHALL BE MAINTAINED. A HORIZONTAL SEPARATION OF AT LEAST 10 FEET MUST ALSO BE MAINTAINED.</div><div>10. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO ANY TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE CONSTRUCTION MANAGER.</div><div>11. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE THROUGHOUT THE PROJECT, UNLESS OTHERWISE NOTED.</div><div>12. ALL EXISTING UTILITIES REPLACED OR RELOCATED SHALL BE CONSTRUCTED OF NEW MATERIALS, APPROVED BY THE CONSTRUCTION MANAGER, SIMILAR TO THOSE OF THE EXISTING UTILITY.</div></div></div>		<div>SITE PIPING NOTES (CONT'D.)</div> <div><div><div>13. UNLESS OTHERWISE INDICATED, CONCRETE USED FOR ENCASEMENT, ANCHOR BLOCKS, BACKING, PIPE CRADLES, ARCHES AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.</div><div>14. SURVEY COORDINATES AND ELEVATIONS SHALL BE PROVIDED FOR ALL BURIED PIPING BENDS AND VALVES ON AS-BUILT DRAWINGS.</div><div>15. PROVIDE VALVE BOXES FOR ALL BURIED VALVES.</div><div>16. THE CONTRACTOR WILL POTHOLE AS REQUIRED AND SHALL FIELD INVESTIGATE PIPING AND INTERFERENCES WITH EXISTING FACILITIES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL FIELD ROUTE NEW LINES AS NECESSARY TO AVOID EXISTING FACILITIES AND SHALL COORDINATE FIELD ROUTING WITH CONSTRUCTION MANAGER.</div><div>17. UNLESS NOTED OTHERWISE ALL UNDERGROUND PIPING SHALL BE INSTALLED PER TRENCH ALTERNATE TRENCH DETAIL WS-15 ON C-003</div><div>18. ASPHALT SURFACES DISTURBED DURING UNDERGROUND PIPING INSTALLATION, DUCT BANK INSTALLATION AND OTHER ACTIVITIES SHALL BE REPAIRED.</div></div><div>SITE LAYOUT NOTES</div><div><div><div>1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS.</div><div>2. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND CONSTRUCTION MANAGER. THE CONTRACTOR SHALL LIMIT THEIR ACTIVITIES TO THESE AREAS.</div><div>3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETTling ALL EXISTING PROPERTY MONUMENTS DISTURBED BY THEIR OPERATIONS. THIS WORK SHALL BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF UTAH AT NO ADDITIONAL COST TO THE OWNER.</div><div>4. WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWINGS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE CONSTRUCTION MANAGER.</div></div></div></div>		<div>PERMITS AND NOTIFICATION NOTES</div> <div><div><div>1. THE CONTRACTOR SHALL COMPLETE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT. SEE SPECIFICATION SECTION 01561.</div><div>2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER TWENTY-FOUR (24) HOURS PRIOR TO COMMENCING PERMITTED WORK, TWENTY-FOUR (24) HOURS PRIOR TO ANY REQUIRED INSPECTION, AND AFTER COMPLETING WORK COVERED BY THE PERMIT.</div><div>3. A REQUEST FOR SHUTDOWN SHALL BE REQUIRED WHENEVER CONNECTIONS ARE MADE TO ANY UTILITY LINE, INCLUDING ELECTRIC POWER AND COMMUNICATION LINES; GAS, WATER, AND SANITARY SEWERS OR STORM SEWERS. CONNECTIONS TO ANY UTILITY WITHOUT AN APPROVED REQUEST WILL MAKE THE CONTRACTOR LIABLE TO THE OWNER FOR CORRECTION OF ANY DEFICIENCIES AND/OR RESULTING PROBLEMS, INCLUDING (BUT NOT LIMITED TO) HEALTH, SAFETY, AND FINANCIAL PROBLEMS. THE CONTRACTOR SHALL REQUEST PERMISSION AT LEAST FOUR (4) WORKING DAYS PRIOR TO THE DAY PLANNED FOR ANY UTILITY SHUT-DOWN. ALL UTILITY SHUT-DOWNS ARE SUBJECT TO APPROVAL BY THE OWNER.</div></div><div>SURVEY DATUM</div><div><div><div>1. THE "PROJECT COORDINATES" AND BEARINGS AND DISTANCES DERIVED THEREFROM ARE EXPRESSED IN A LOCAL GROUND SYSTEM DEFINED AS FOLLOWS:</div><div>HORIZONTAL DATUM = NORTH AMERICAN DATUM OF 1983 (N.A.D.83)</div><div>VERTICAL DATUM = NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88)</div><div>COORDINATE SYSTEM = US STATE PLANE 1983, UTAH SOUTH ZONE (4303)</div><div>PROJECTED AT GROUND</div><div>GEOID MODEL = GEOID 18</div><div>UNITS = US SURVEY FOOT</div><div>FALSE NORTHING = -10,000,000</div><div>FALSE EASTING = -2,000,000</div><div>COMBINED SCALE FACTOR = 0.99965728 POINTS WERE SCALED FROM COORDINATE 0,0 IN THE NAD 83 US STATE PLAN UTAH SOUTH ZONE COORDINATE SYSTEM USING THE COMBINED SCALE</div><div>FACTOR LISTED ABOVE.</div><div>(SCALING LATITUDE = N10°28'48.68912") SCALING LONGITUDE = W115°36'46.30451")</div><div>TO CONVERT TO STATE PLANE COORDINATES USE THE FOLLOWING:</div><div>STATE PLANE NORTHING = (PROJECT NORTHING + 10,000,000) / 1.00034284</div><div>STATE PLANE EASTING = (PROJECT EASTING + 2,000,000) / 1.00034284.</div></div></div></div>	
<div><div><div><div><div></div><div>Brown AND Caldwell</div></div></div></div></div>		SALT LAKE CITY, UTAH									
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		<div><div><div><div><div></div><div>NTUA</div></div><div>NAVAJO TRIBAL UTILITY AUTHORITY</div><div>UTILITIES FOR THE NAVAJO NATION</div></div></div></div>									
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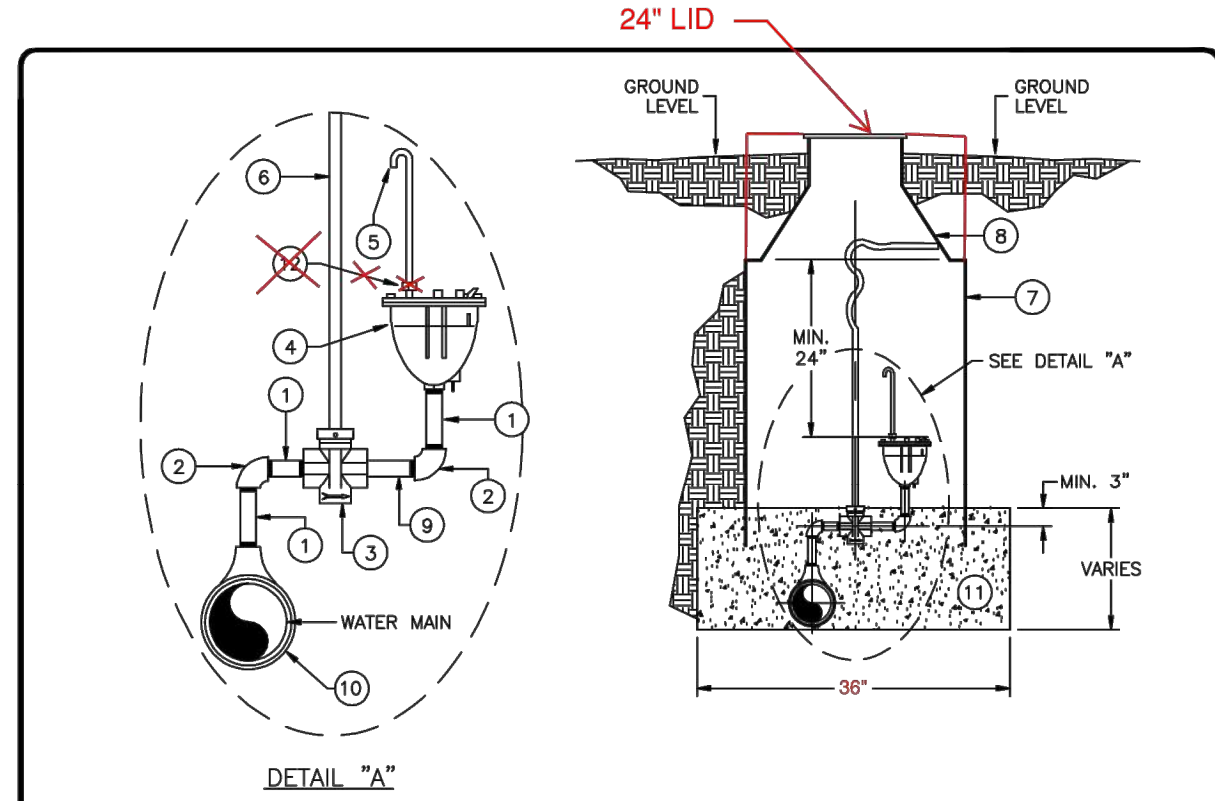






DESIGNED BY:	NTUA
DRAWN BY:	NTUA
CHECKED BY:	NTUA
APPROVED BY:	NTUA
DATE:	11/13/2023
PROJECT NO.:	1193
SCALE:	1"=10'-0"
DATE PREPARED:	11/13/2023
DATE REVISION:	11/13/2023

REVISIONS	DATE	BY	DESCRIPTION
1	11/13/2023	NTUA	1. ALL MARKER POSTS TO BE "BLUE" CARSONITE (TYP.).
2	11/13/2023	NTUA	2. MARKER POSTS SHALL BE PLACED AT ALL POINTS OF INTERSECTION (P.I.).
3	11/13/2023	NTUA	3. MARKER POSTS SHALL BE PLACED AT ALL POINTS OF INTERSECTION (P.I.).
4	11/13/2023	NTUA	4. MARKER POSTS WILL HAVE A MAX. HEIGHT OF 30 INCHES.

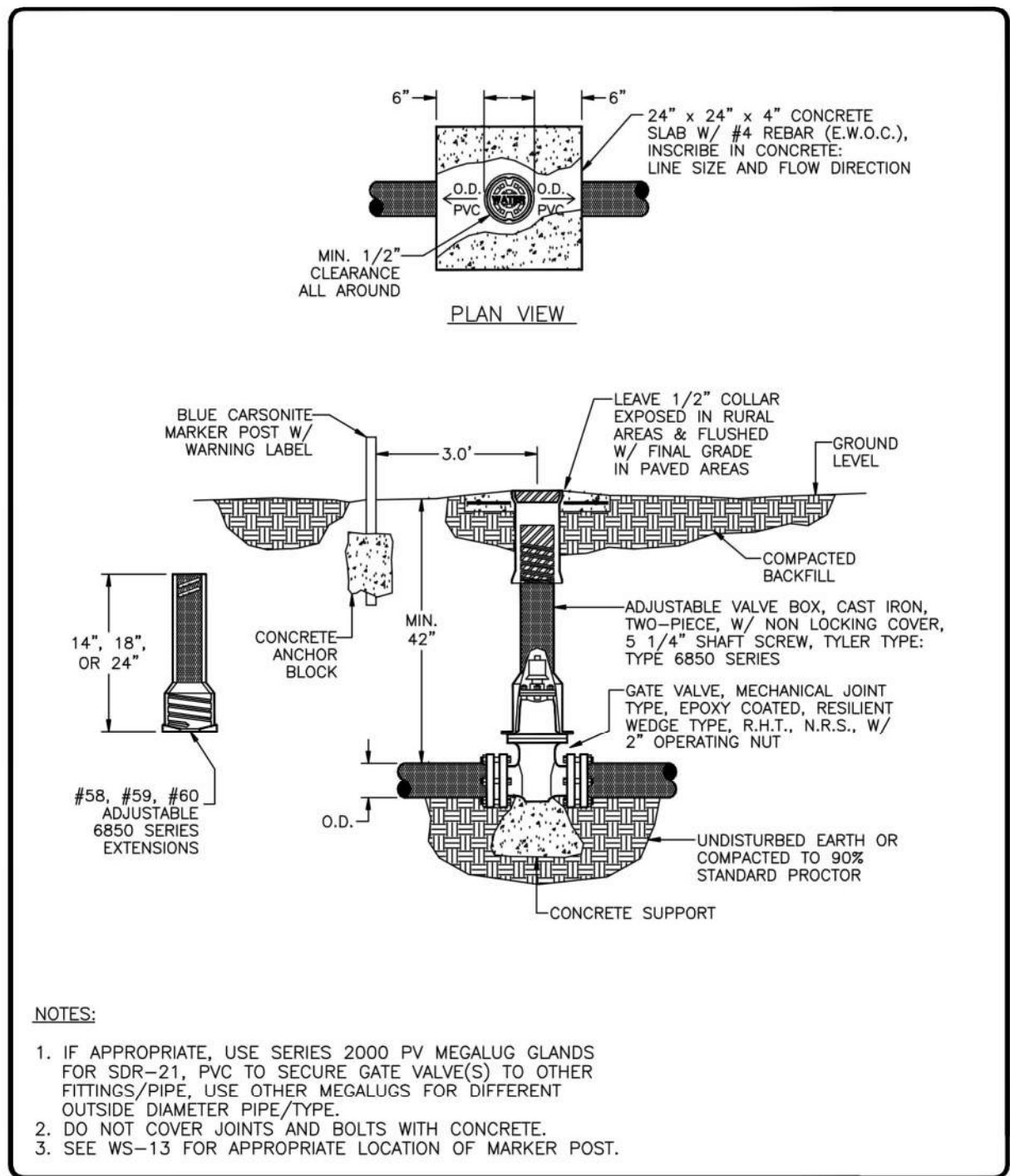


ITEM	QUAN	DESCRIPTION
1	3	1" x 3" NIPPLE, BRASS
2	2	1" x 90° ELBOW, BRASS
3	1	1" CURB STOP VALVE, RPT, MUELLER H-10287, OAE
4	1	1" COMBINATOR AIR RELEASE/VACUUM VALVE
5	1	1" O.D. PIPE, BRASS, 12" MIN. ADD #14 SCREEN TO END OF PIPE.
6	1	STATIONARY ROD, 42"
7	1	METER CAN, 36" O.D. x 30" DEPTH, SONOLOC
8	1	METER CAN COVER W/ DOUBLE LID (FROST PLATE) FOR 36" O.D. CAN, CASTING M-70
9	1	1" x 6" NIPPLE, BRASS
10	1	SADDLE, BRASS, 1" TAP x APPROPRIATE PIPE O.D. SIZE
11	3 CF*	1" TO 2" FILTER ROCK
12	1	1" x 3" NIPPLE, BRASS

\*CF = CUBIC FEET

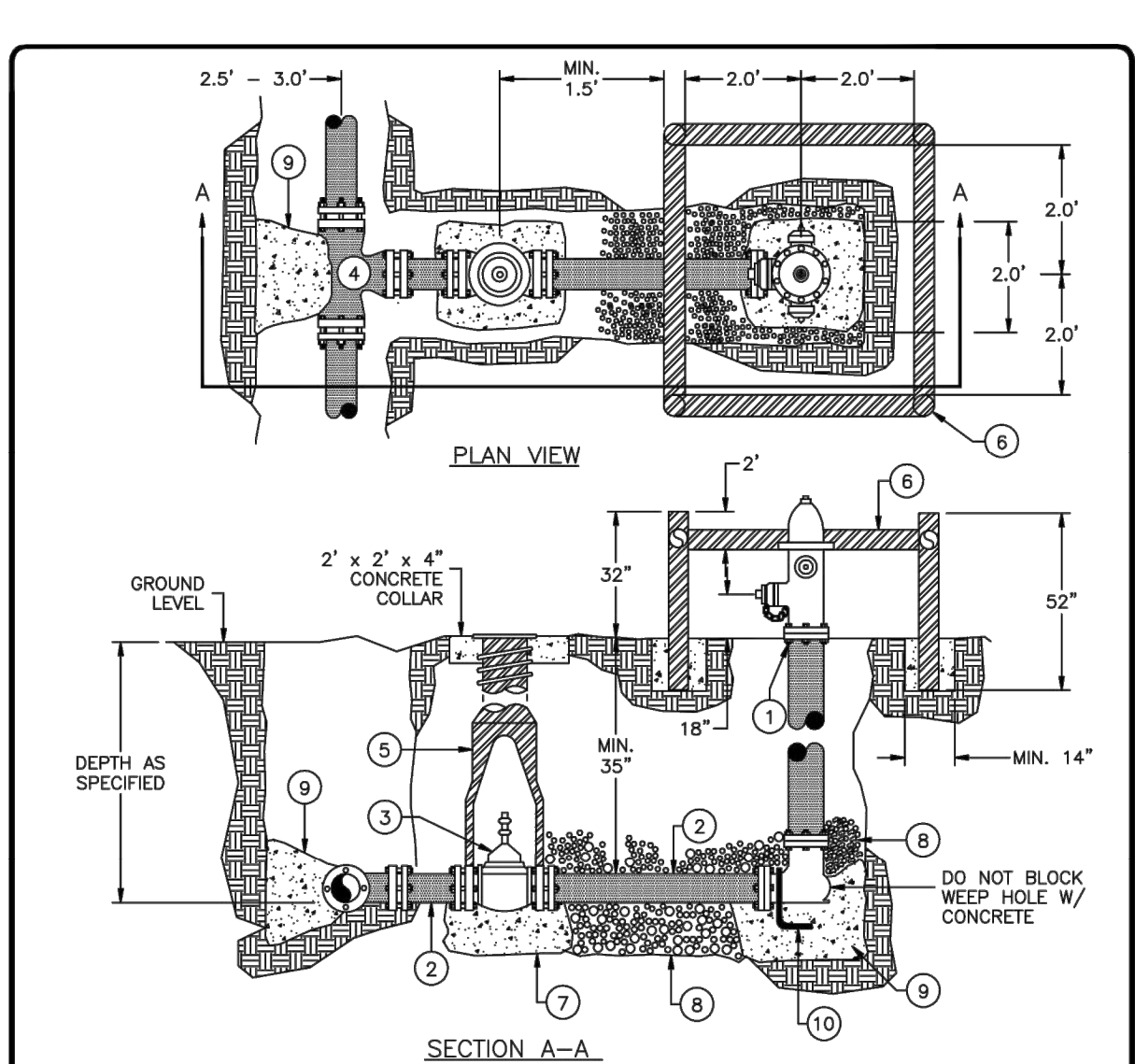
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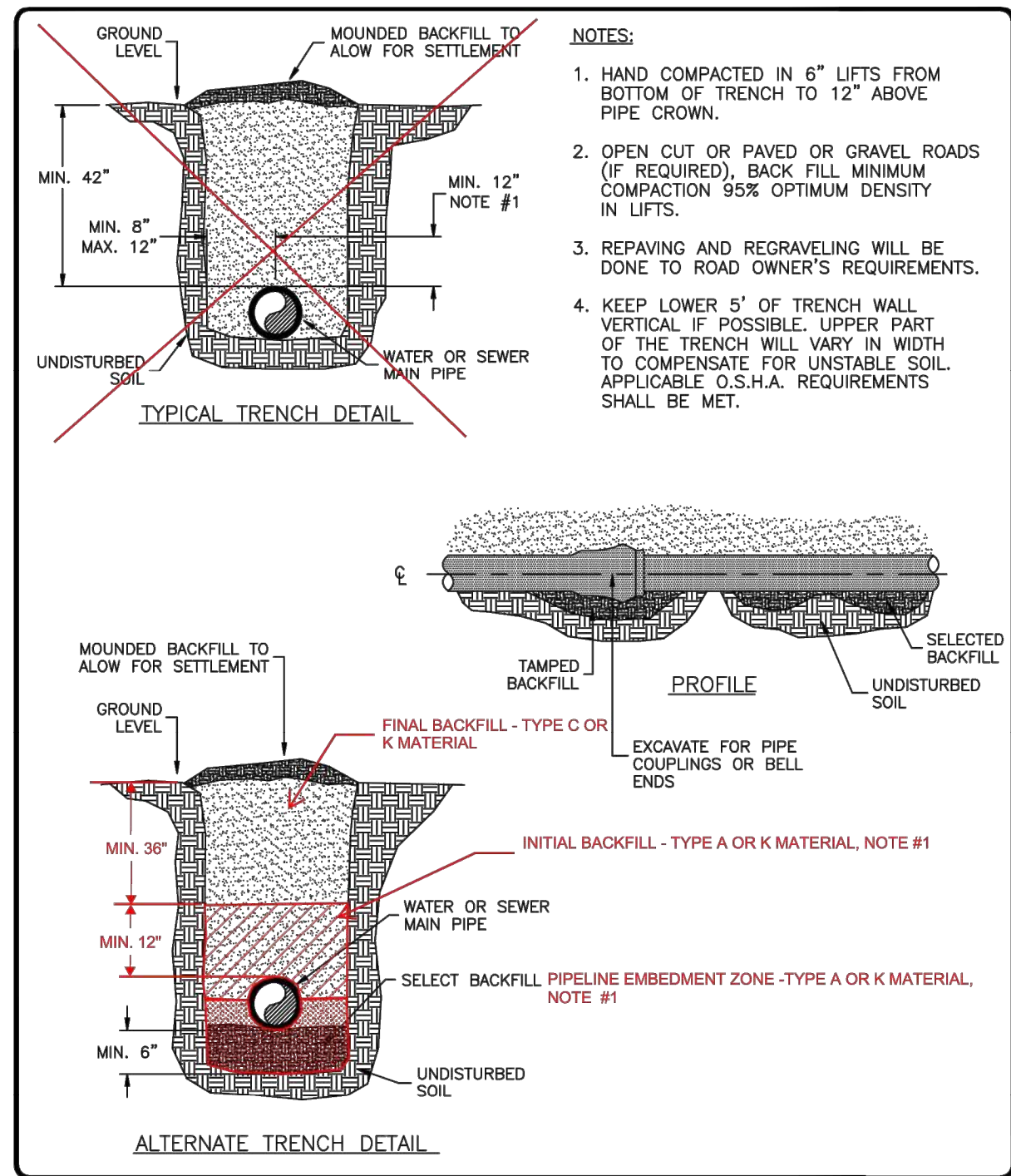
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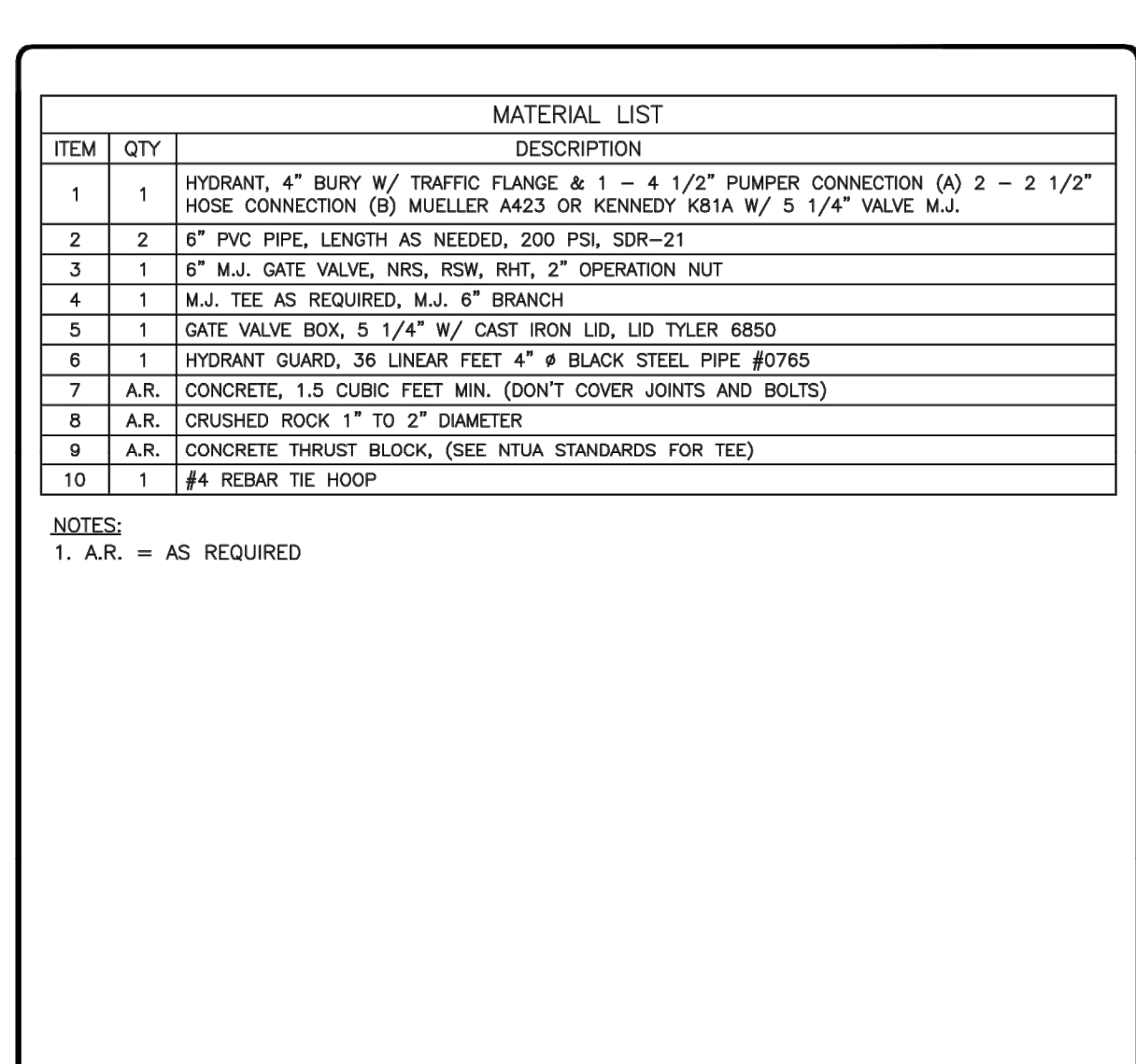
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ITEM	QTY	DESCRIPTION
1	1	HYDRANT, 4" BURY W/ TRAFFIC FLANGE & 1 - 4 1/2" PUMPER CONNECTION (A) 2 - 2 1/2" HOSE CONNECTION (B) MUELLER A423 OR KENNEDY K81A W/ 5 1/4" VALVE M.J.
2	2	6" PVC PIPE, LENGTH AS NEEDED, 200 PSI, SDR-21
3	1	6" M.J. GATE VALVE, NRS, RSW, RHT, 2" OPERATION NUT
4	1	M.J. TEE AS REQUIRED, M.J. 6" BRANCH
5	1	GATE VALVE BOX, 5 1/4" W/ CAST IRON LID, LID TYLER 6850
6	1	HYDRANT GUARD, 36 LINEAR FEET 4" # BLACK STEEL PIPE #0785
7	A.R.	CONCRETE, 1.5 CUBIC FEET MIN. (DON'T COVER JOINTS AND BOLTS)
8	A.R.	CRUSHED ROCK 1 1/2" TO 2" DIAMETER
9	A.R.	CONCRETE THRUST BLOCK, (SEE NTUA STANDARDS FOR TEE)
10	1	#4 REBAR TIE HOOP

NOTES:

1. A.R. = AS REQUIRED

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2	11/13/2023	NTUA	2. MARKER POSTS SHALL BE PLACED AT ALL POINTS OF INTERSECTION (P.I.).
3	11/13/2023	NTUA	3. MARKER POSTS SHALL BE PLACED AT ALL POINTS OF INTERSECTION (P.I.).
4	11/13/2023	NTUA	4. MARKER POSTS WILL HAVE A MAX. HEIGHT OF 30 INCHES.



SALT LAKE CITY, UTAH

90% SUBMITTAL



WESTWATER  
WATER SYSTEM  
DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES  
AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED: ---

APPROVED: S. BRENCHELY

FILENAME

C-003.DWG

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

NTUA DETAILS - 2

DRAWING NUMBER

C-003

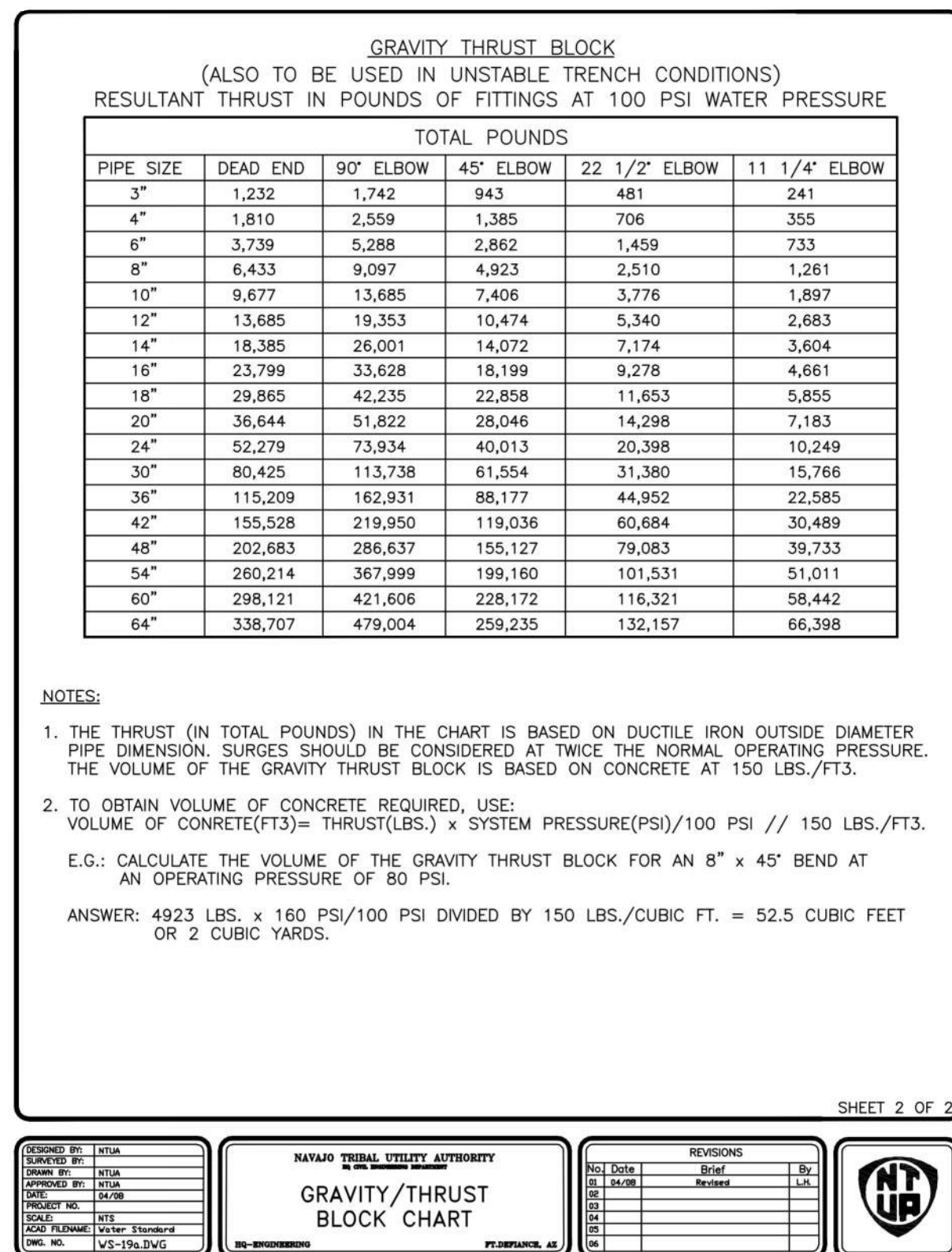
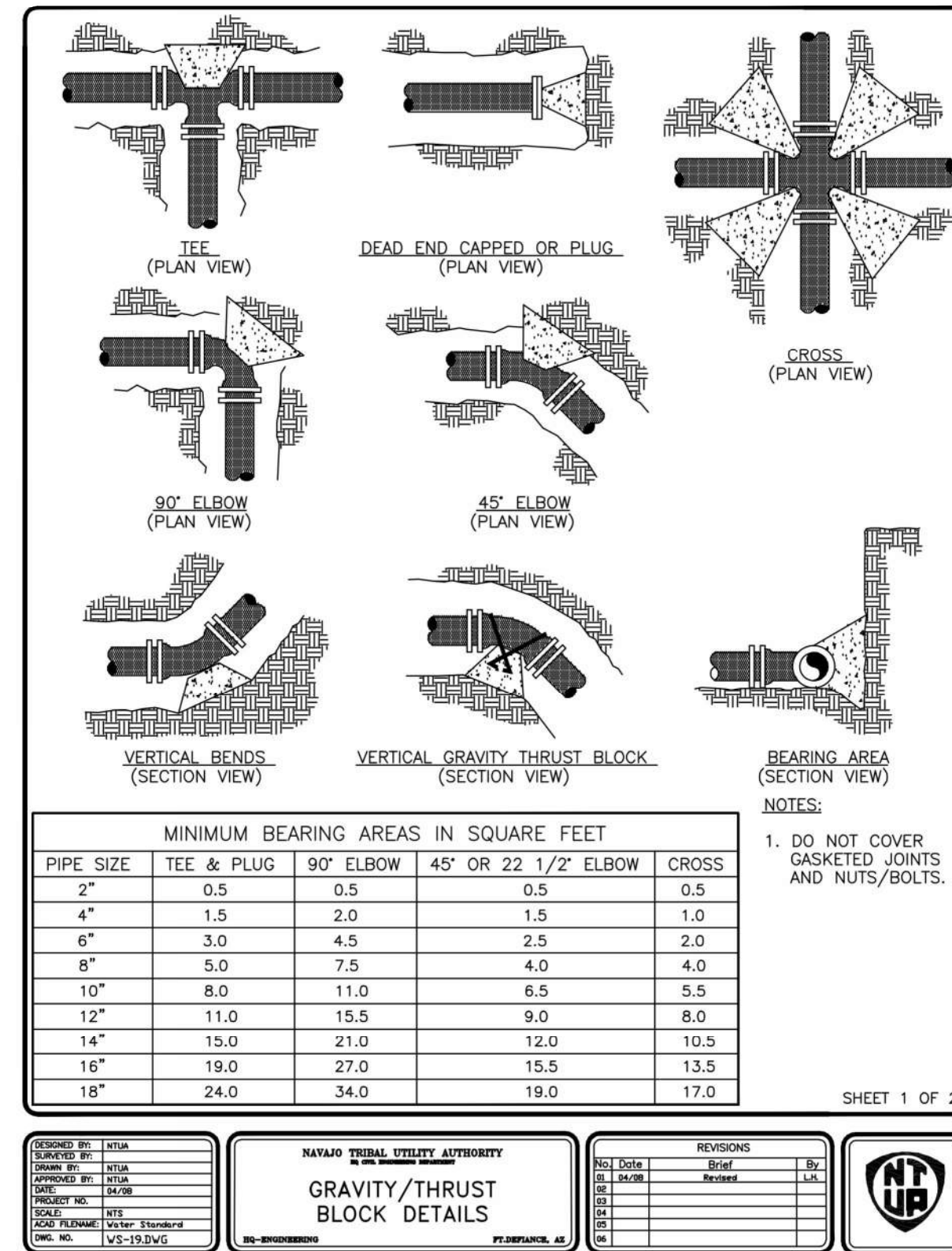
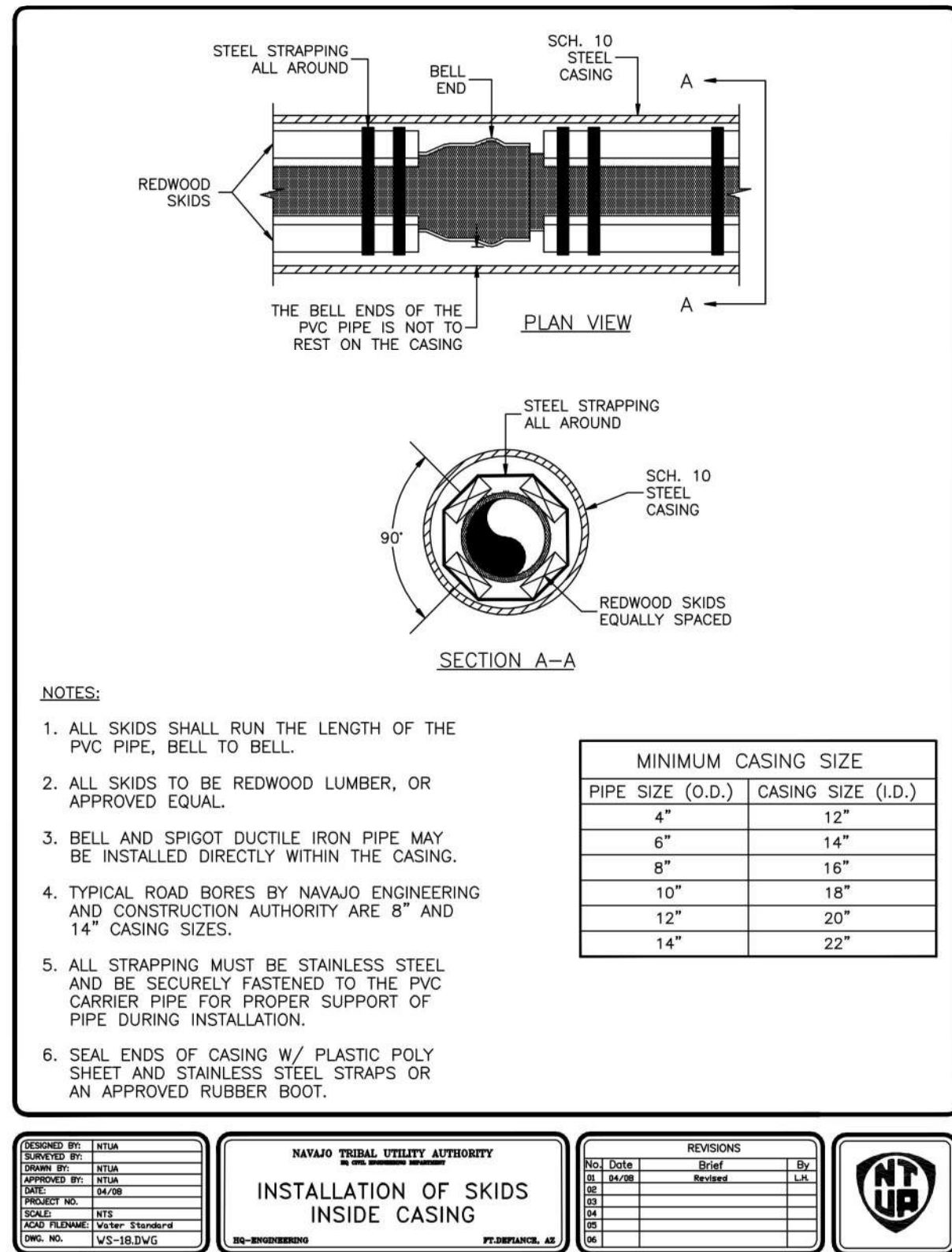
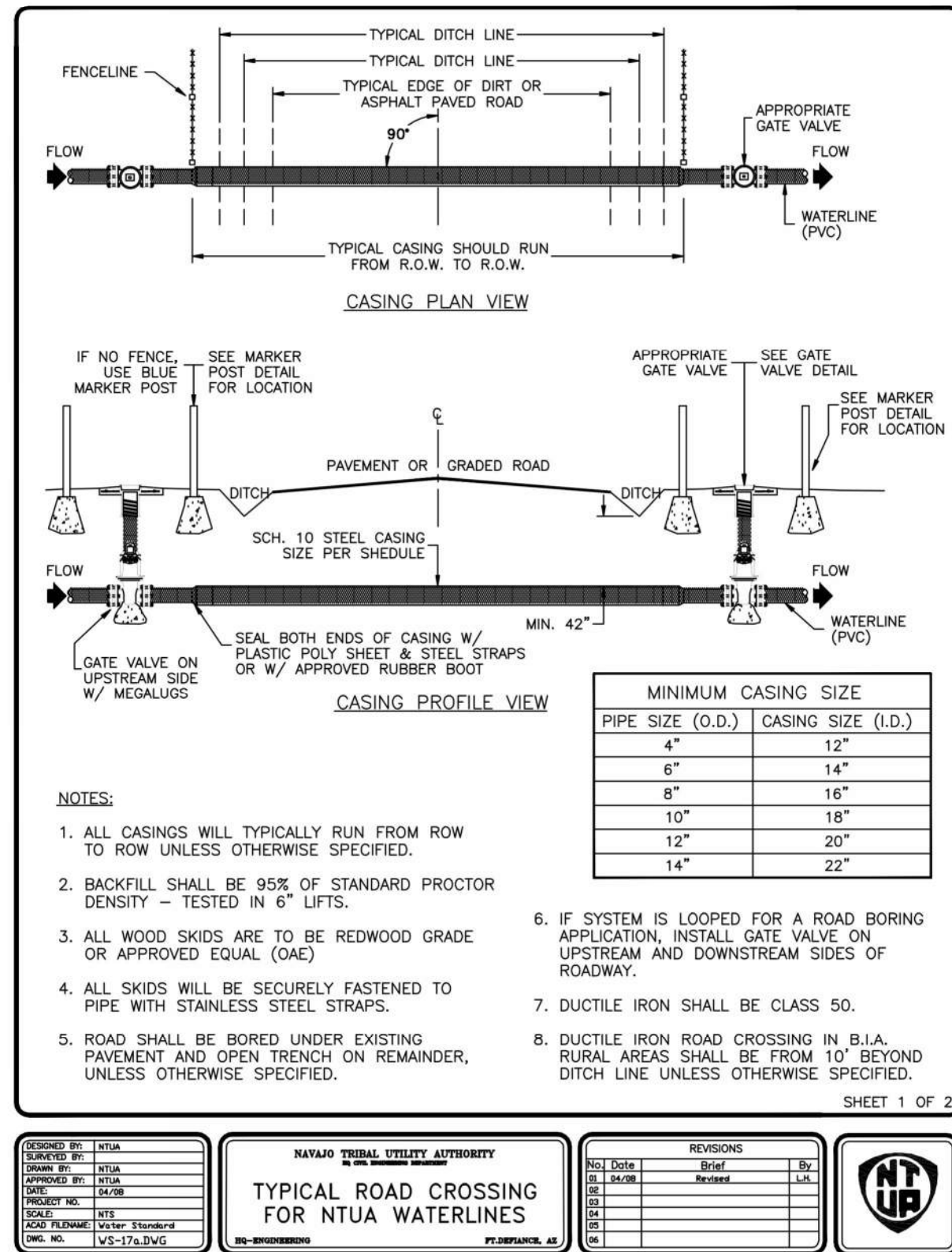
SHEET NUMBER

7

OF

22





**SALT LAKE CITY, UTAH**

90% SUBMITTAL



# WESTWATER WATER SYSTEM DESIGN

## REVISIONS

[illegible]

LINE IS 2 INCHES  
AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED: ---

CHECKED: ---

APPROVED: S. BRENCHLEY

FILENAME

C-004.DW

BC PROJECT NUMBER  
150015

CLIENT PROJECT NUMBER

CIVIL

NTUA DETAILS - 3

DRAWING NUMBER

C-004

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8

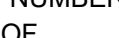
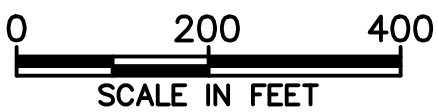
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OF

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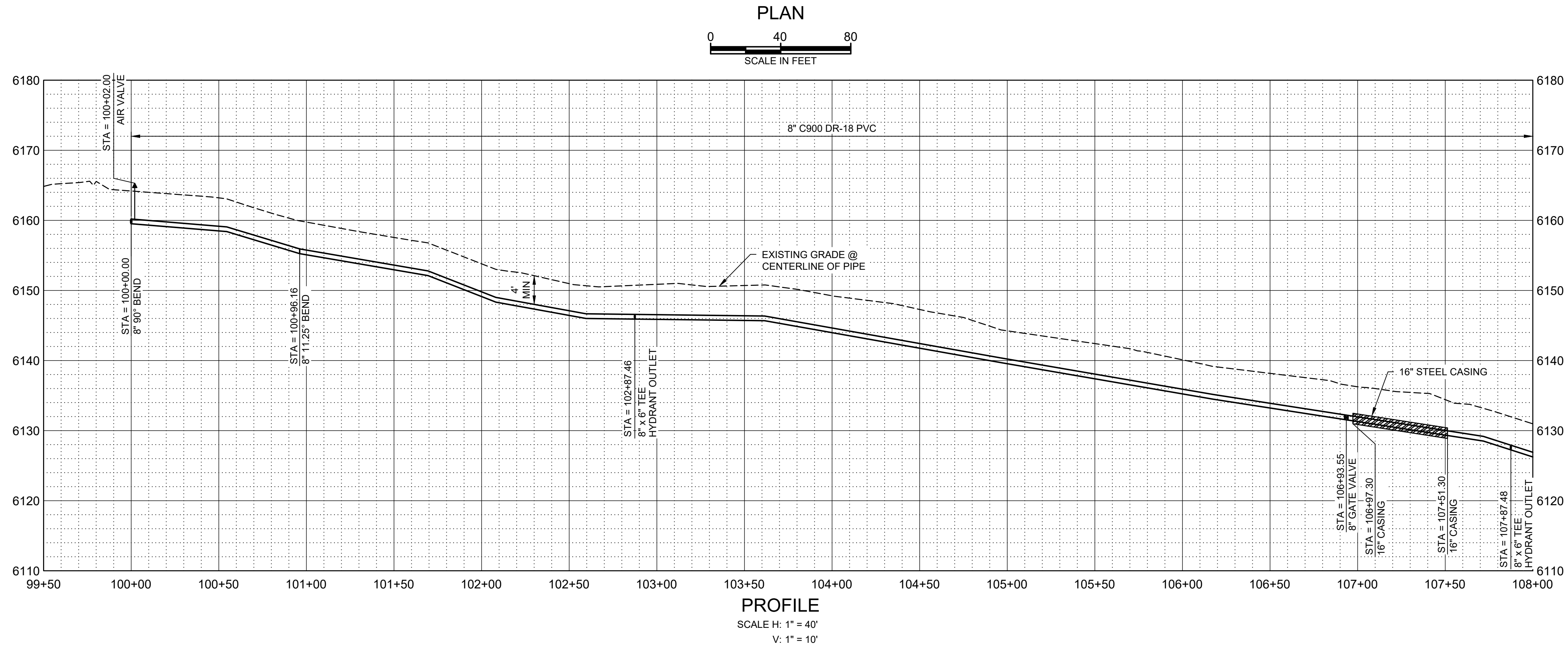
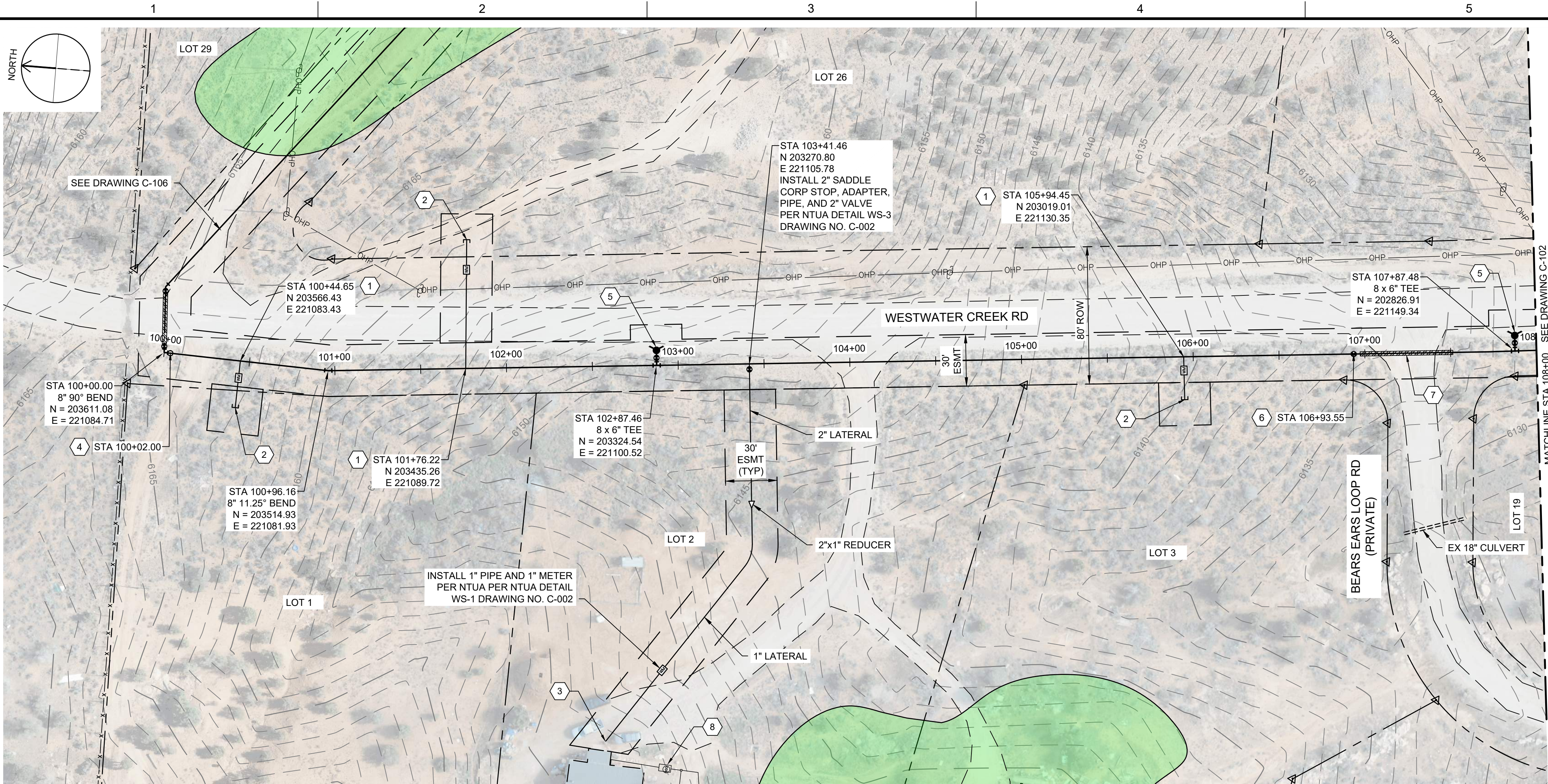








Path: C:\BCP\W\284\193 FILENAME: C-101.DWG PLOT DATE: 11/3/2023 10:34 AM CAD USER: DAVID DAVIDSE



## GENERAL NOTES

- ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
- CONTRACTOR TO FIELD VERIFY PHYSICAL LOCATION, ELEVATIONS AND INVERTS. ELEVATIONS ARE BASED ON NAVD 88 EXPRESS IN INTERNATIONAL FEET.
- CONTRACTOR TO PROVIDE THRUST BLOCKS AT ALL ELBOWS, TEES, CROSSES PER NTUA STD DWG WS-19 DRAWING NO. C-004. MECHANICAL JOINT RESTRAINTS CAN BE UTILIZED IN PLACE OF THRUST BLOCKS. EBA IRON MEGALUG SERIES 2000 PV FOR FITTINGS AND SERIES 2500 FOR PIPE JOINTS - INSTALL PER MANUFACTURE'S RECOMMENDATIONS.
- CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
- DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.
- ALL PIPING TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR OTHERWISE SHOWN IN DETAILS.
- THE SEPTIC TANKS AND ASSOCIATED DRAIN FIELDS SHOWN ON THE DRAWINGS ARE NOT AS-BUILT LOCATIONS. THESE LOCATIONS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION FOR EACH LOT. MOST SEPTIC TANKS ON SITE ARE BURIED AND NOT ABLE TO BE LOCATED BY SURVEY. LOCATION OF SEPTIC FIELDS AND SEPTIC TANKS ARE BASED ON PDF DRAWINGS FROM THE SOUTHEASTERN UTAH DISTRICT HEALTH DEPARTMENT, NAIHS PDF DRAWINGS, FIELD SITE VISITS, AND INFORMATION PROVIDED BY EACH HOME OWNER.

## KEY NOTES

- INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
- PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.
- DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN. COMPACT TO 95% COMPACTION REQUIREMENT.
- INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.
- INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
- INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
- INSTALL 16" STEEL CASING PER DETAIL WS-17A AND WS-18 DRAWING NO. C-004. PROVIDE STRUCTURAL FILL FOR ROAD CROSSING. REPLACE EXISTING ROAD BASE WITH SAME THICKNESS OR BETTER WITH 95% COMPACTION. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.
- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

## LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL OF A DULY REGISTERED PROFESSIONAL

90% SUBMITTAL



WESTWATER  
WATER SYSTEM  
DESIGN

## REVISIONS

REV	DATE	DESCRIPTION
-----	------	-------------


LINE IS 2 INCHES  
AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

CHECKED:

APPROVED: S. BRENCHELY

FILENAME

C-101.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE  
STA 100+00 TO STA  
108+00

DRAWING NUMBER

C-101

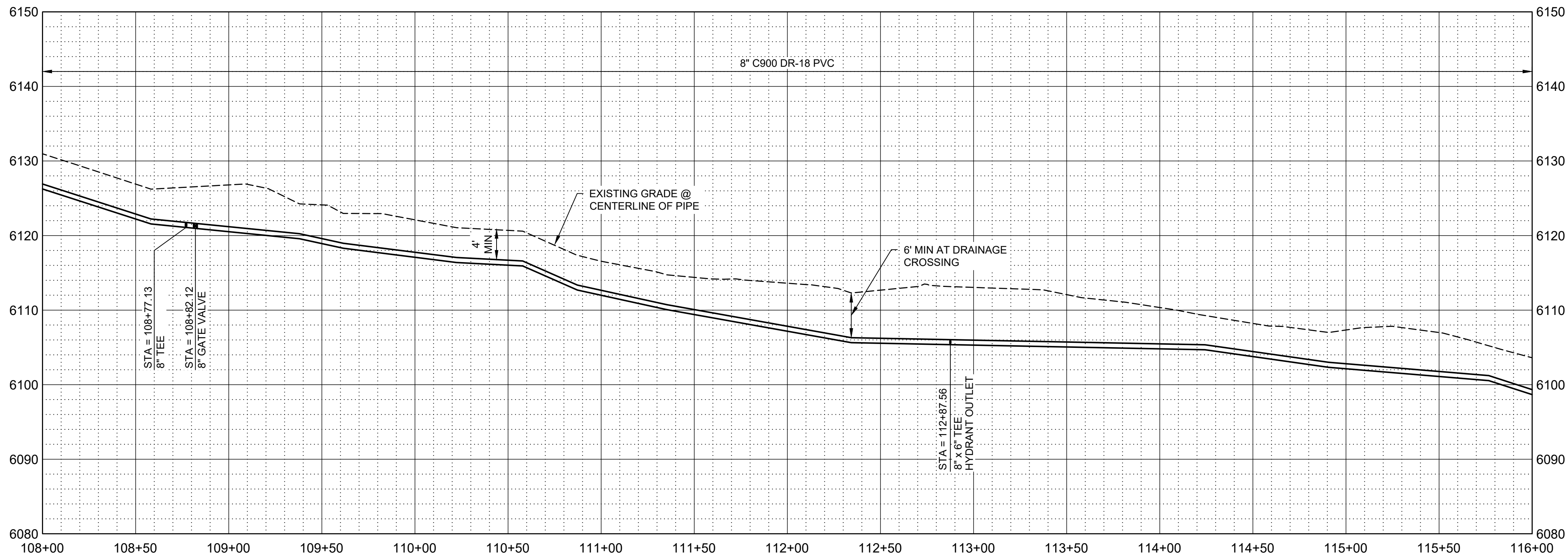
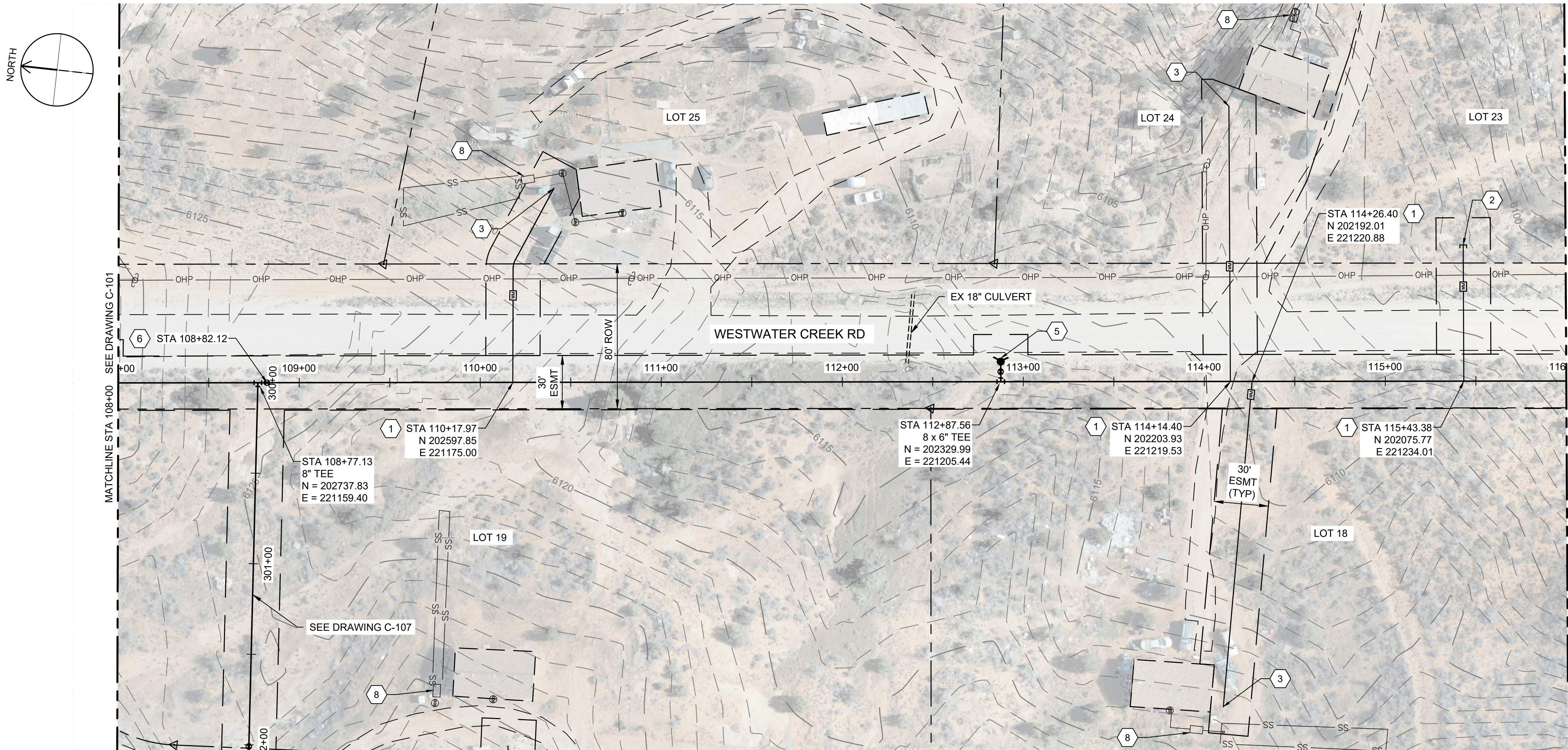
11 SHEET NUMBER  
OF 22

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Path: C:\BCP\W\0284\193 FILENAME: C-102.DWG PLOT DATE: 11/3/2023 10:36 AM CAD USER: DAVID DAVIDSE



## GENERAL NOTES

- ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
- CONTRACTOR TO FIELD VERIFY PHYSICAL LOCATION, ELEVATIONS AND INVERTS. ELEVATIONS ARE BASED ON NAVD 88 EXPRESS IN INTERNATIONAL FEET.
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- CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
- DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.
- ALL PIPING TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR OTHERWISE SHOWN IN DETAILS.
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## KEY NOTES

- INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
- PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.
- DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN, COMPACT TO 95% COMPACTION REQUIREMENT.
- INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
- INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

## LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

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90% SUBMITTAL



WESTWATER  
WATER SYSTEM  
DESIGN

## REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES  
AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

CHECKED:

APPROVED: S. BRENCHLEY

FILENAME

C-102.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE  
STA 108+00 TO STA  
116+00

DRAWING NUMBER

C-102

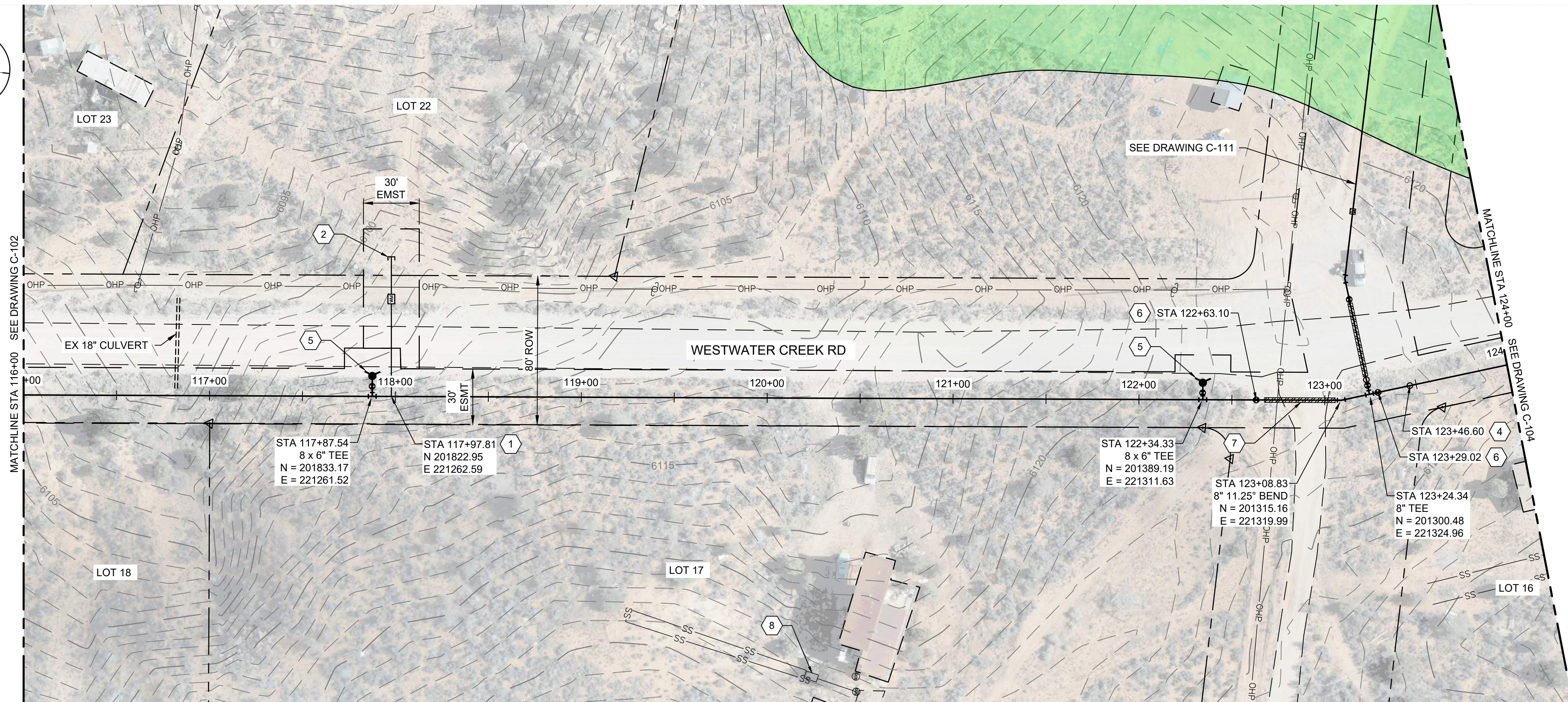
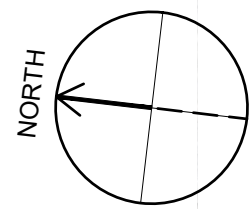
12 SHEET NUMBER  
OF 22

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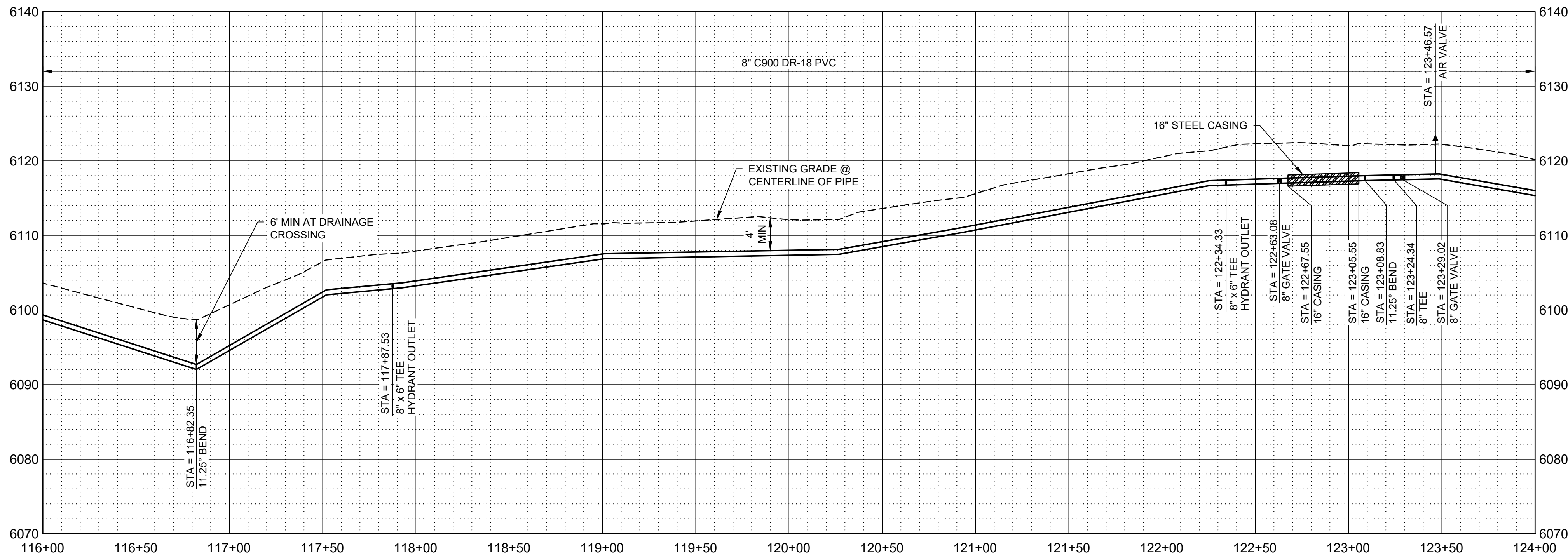
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www.bluestakes.org  
1-800-662-4111



Path: C:\BCP\WD284\193 FILENAME: C-103.DWG PLOT DATE: 11/9/2023 10:37 AM CAD USER: DAVID DAVIDSE



PLAN



PROFILE

SCALE H: 1" = 40'  
V: 1" = 10'

### GENERAL NOTES

- ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
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### KEY NOTES

- INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
- PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.
- INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.
- INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
- INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
- INSTALL 16" STEEL CASING PER DETAIL WS-17A AND WS-18 DRAWING NO. C-004. PROVIDE STRUCTURAL FILL FOR ROAD CROSSING. REPLACE EXISTING ROAD BASE WITH SAME THICKNESS OR BETTER WITH 95% COMPACTION. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.
- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

### LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

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90% SUBMITTAL



## WESTWATER WATER SYSTEM DESIGN

### REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

CHECKED:

APPROVED: S. BRENCHELY

FILENAME

C-103.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

## PLAN AND PROFILE STA 116+00 TO STA 124+00

DRAWING NUMBER

C-103

13

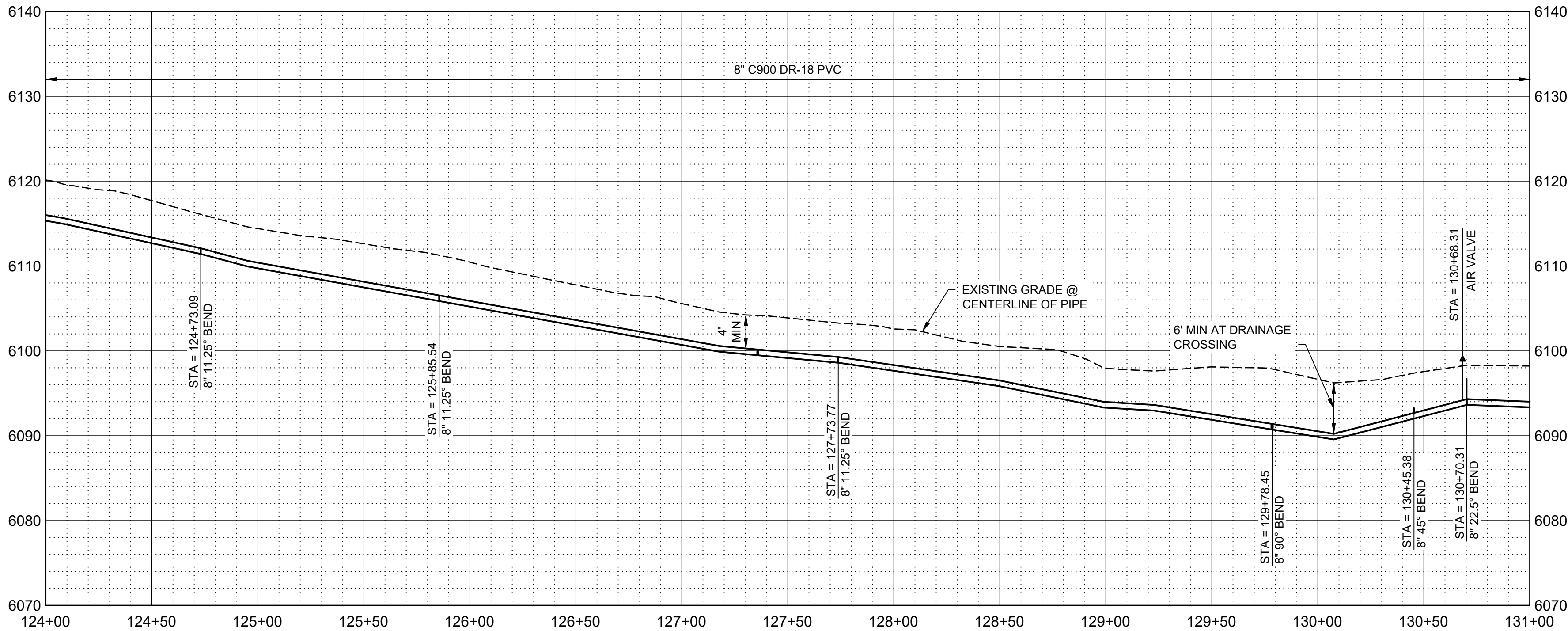
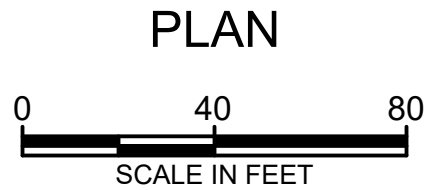
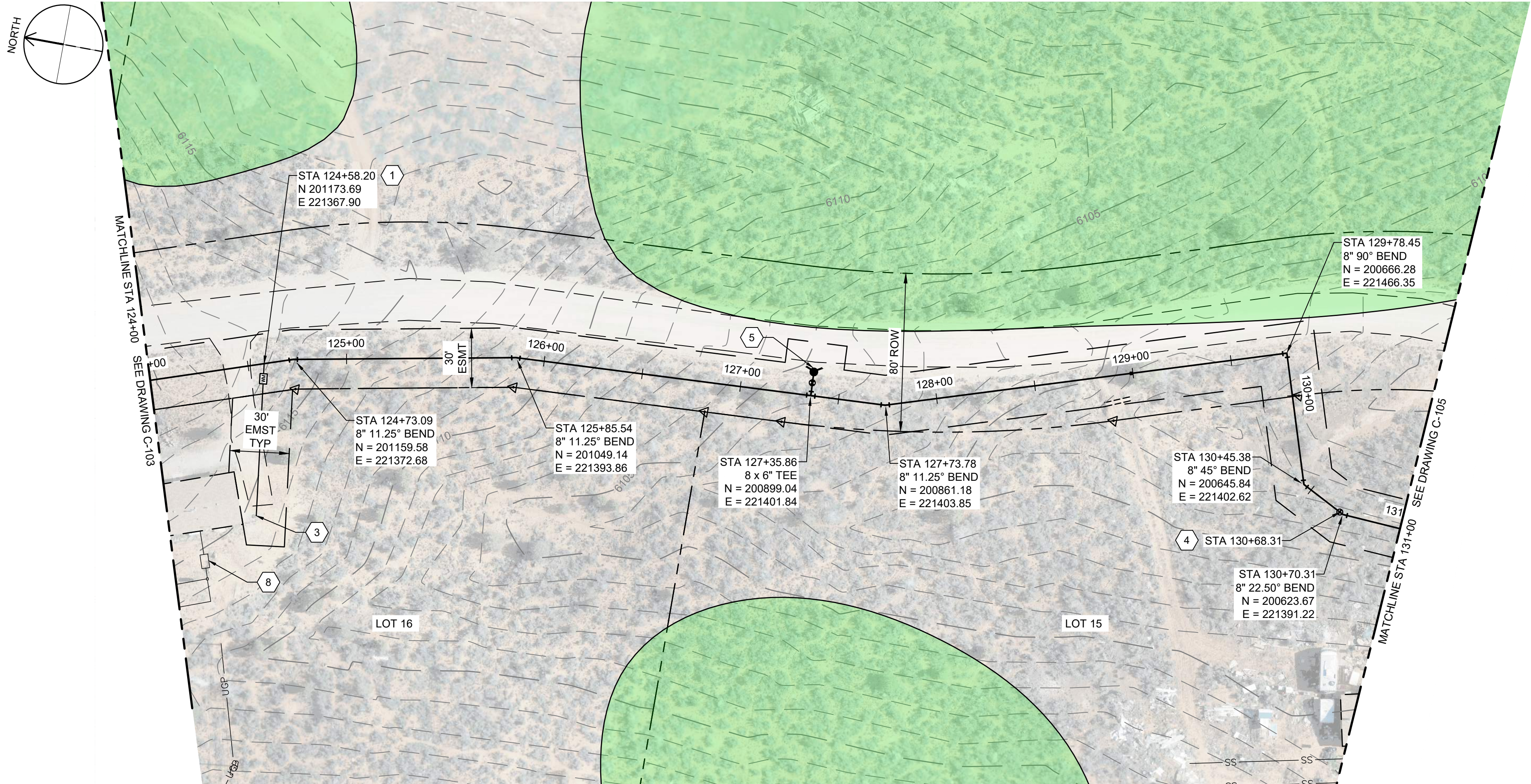
SHEET NUMBER  
OF

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Path: C:\BCP\W\2024\193 FILENAME: C-104.DWG PLOT DATE: 11/03/2023 10:38 AM CAD USER: DAVID DAVIDSE



PROFILE  
SCALE H: 1" = 40'  
V: 1" = 10'

GENERAL NOTES

- ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
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- CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
- DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.
- ALL PIPING TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR OTHERWISE SHOWN IN DETAILS.
- THE SEPTIC TANKS AND ASSOCIATED DRAIN FIELDS SHOWN ON THE DRAWINGS ARE NOT AS-BUILT LOCATIONS. THESE LOCATIONS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION FOR EACH LOT. MOST SEPTIC TANKS ON SITE ARE BURIED AND NOT ABLE TO BE LOCATED BY SURVEY. LOCATION OF SEPTIC FIELDS AND SEPTIC TANKS ARE BASED ON PDF DRAWINGS FROM THE SOUTHEASTERN UTAH DISTRICT HEALTH DEPARTMENT, NAIHS PDF DRAWINGS, FIELD SITE VISITS, AND INFORMATION PROVIDED BY EACH HOME OWNER.

KEY NOTES

- INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
- DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN, COMPACT TO 95% COMPACTION REQUIREMENT.
- INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.
- INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL OF A DULY REGISTERED PROFESSIONAL

90% SUBMITTAL



WESTWATER  
WATER SYSTEM  
DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES  
AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

APPROVED: S. BRENCHLEY

FILENAME

C-104.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE  
STA 124+00 TO STA  
131+00

DRAWING NUMBER

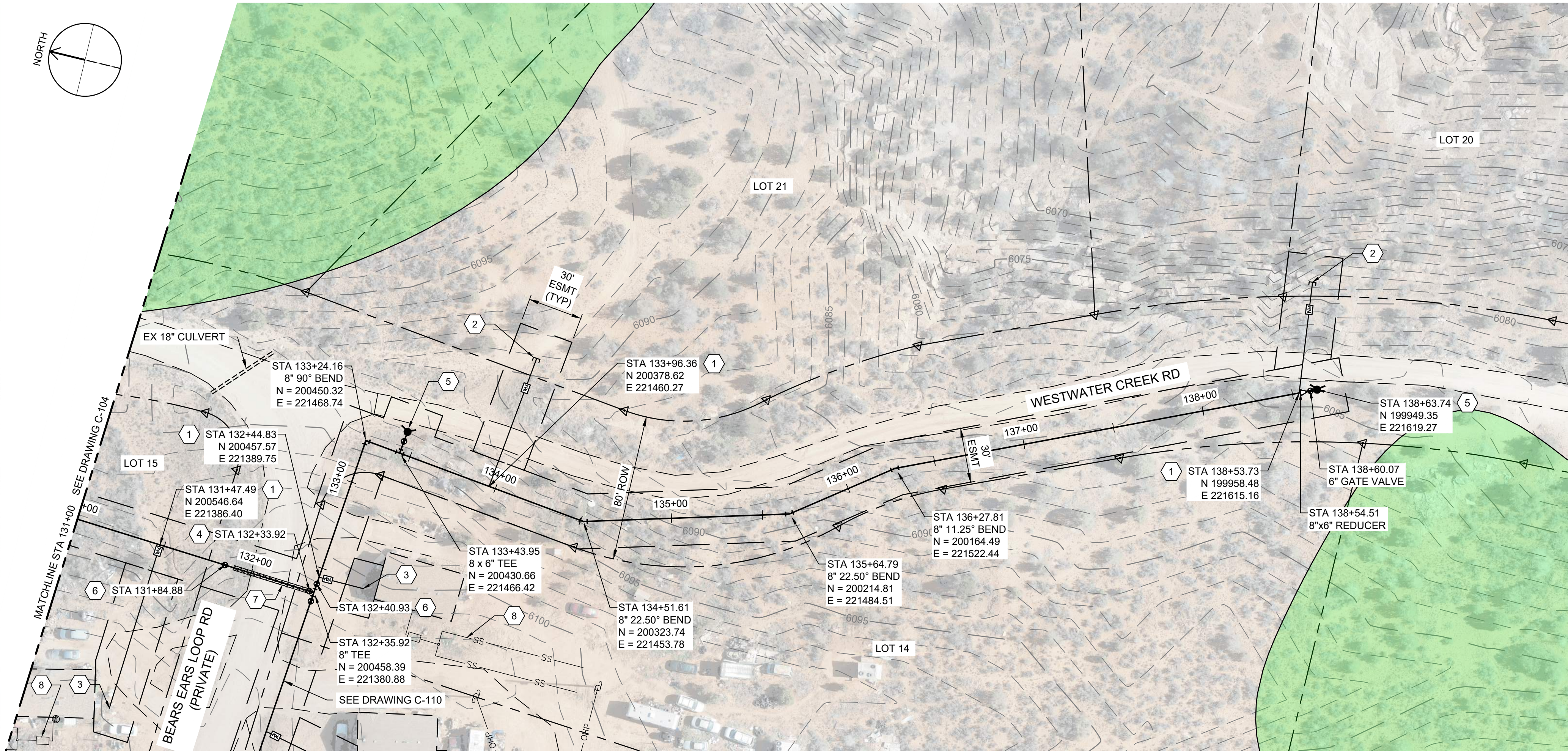
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14 SHEET NUMBER  
OF 22

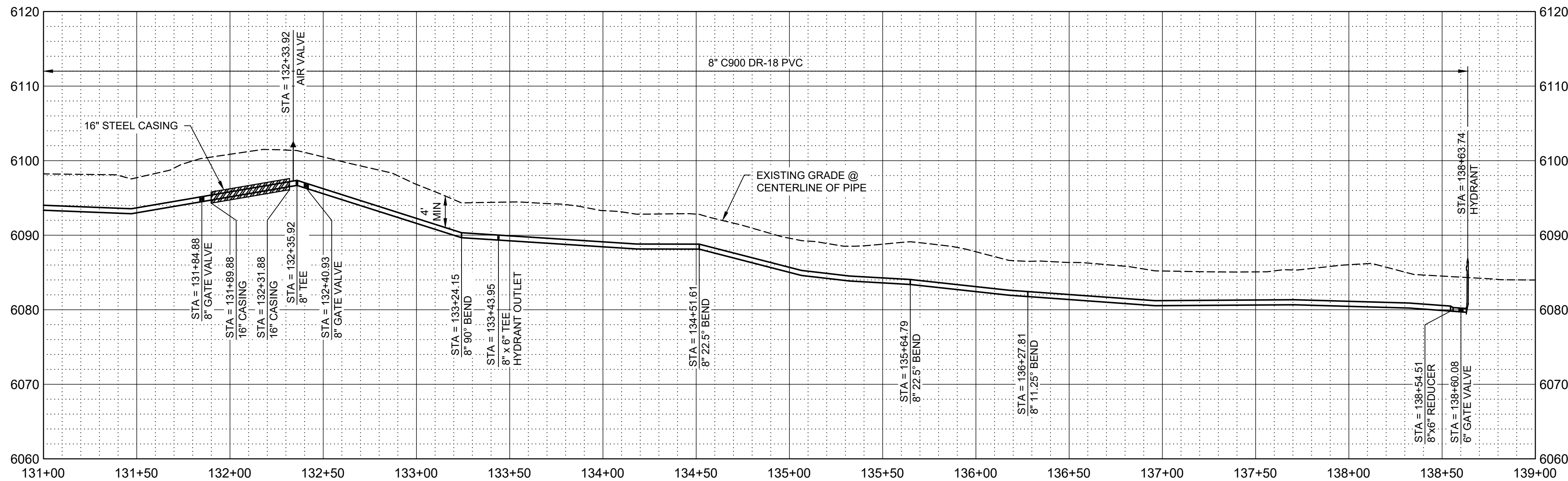
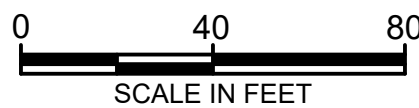




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PLAN



PROFILE

SCALE H: 1" = 40'  
V: 1" = 10'

## GENERAL NOTES

- ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
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- CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
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## KEY NOTES

- INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
- PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.
- DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN. COMPACT TO 95% COMPACTION REQUIREMENT.
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- INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
- INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
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- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

## LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL OF A DULY REGISTERED PROFESSIONAL

90% SUBMITTAL



## WESTWATER WATER SYSTEM DESIGN

### REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

CHECKED:

APPROVED: S. BRENCHELY

FILENAME

C-105.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

## PLAN AND PROFILE STA 131+00 TO STA 138+63.74

DRAWING NUMBER

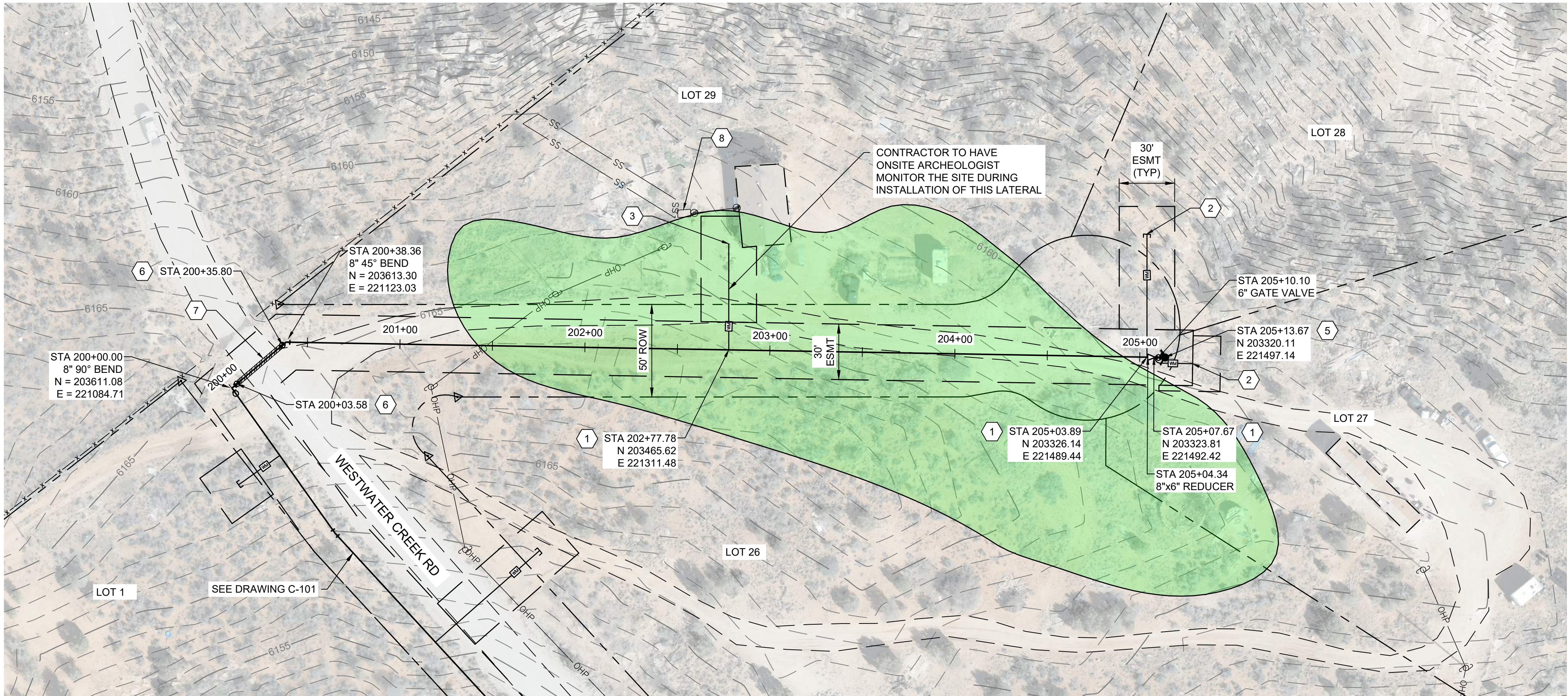
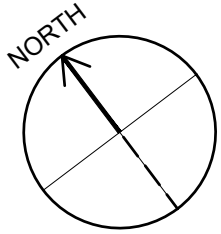
C-105

15 SHEET NUMBER OF 22

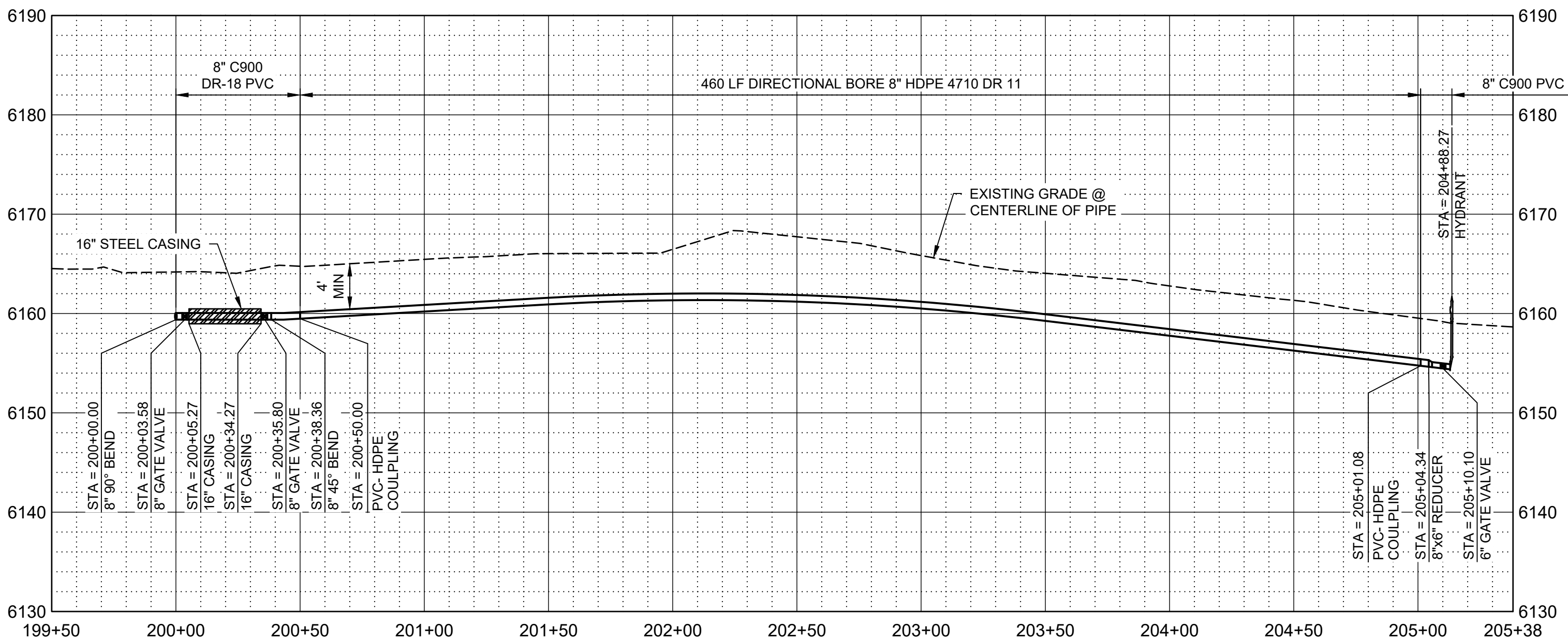




Path: C:\BCP\W\284\183 FILENAME: C-106.DWG PLOT DATE: 11/3/2023 10:41 AM CAD USER: DAVID DAVIDSE



PLAN



PROFILE

SCALE H: 1" = 40'  
V: 1" = 10'

## GENERAL NOTES

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- CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
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## KEY NOTES

- INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
- PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.
- DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN, COMPACT TO 95% COMPACTION REQUIREMENT.
- INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
- INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
- INSTALL 16" STEEL CASING PER DETAIL WS-17A AND WS-18 DRAWING NO. C-004. PROVIDE STRUCTURAL FILL FOR ROAD CROSSING. REPLACE EXISTING ROAD BASE WITH SAME THICKNESS OR BETTER WITH 95% COMPACTION. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.
- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

## LEGEND

 ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL OF A DULY REGISTERED PROFESSIONAL

90% SUBMITTAL



## WESTWATER WATER SYSTEM DESIGN

### REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

CHECKED:

APPROVED: S. BRENCHELY

FILENAME

C-106.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE  
STA 200+00 TO STA  
205+13.67

DRAWING NUMBER

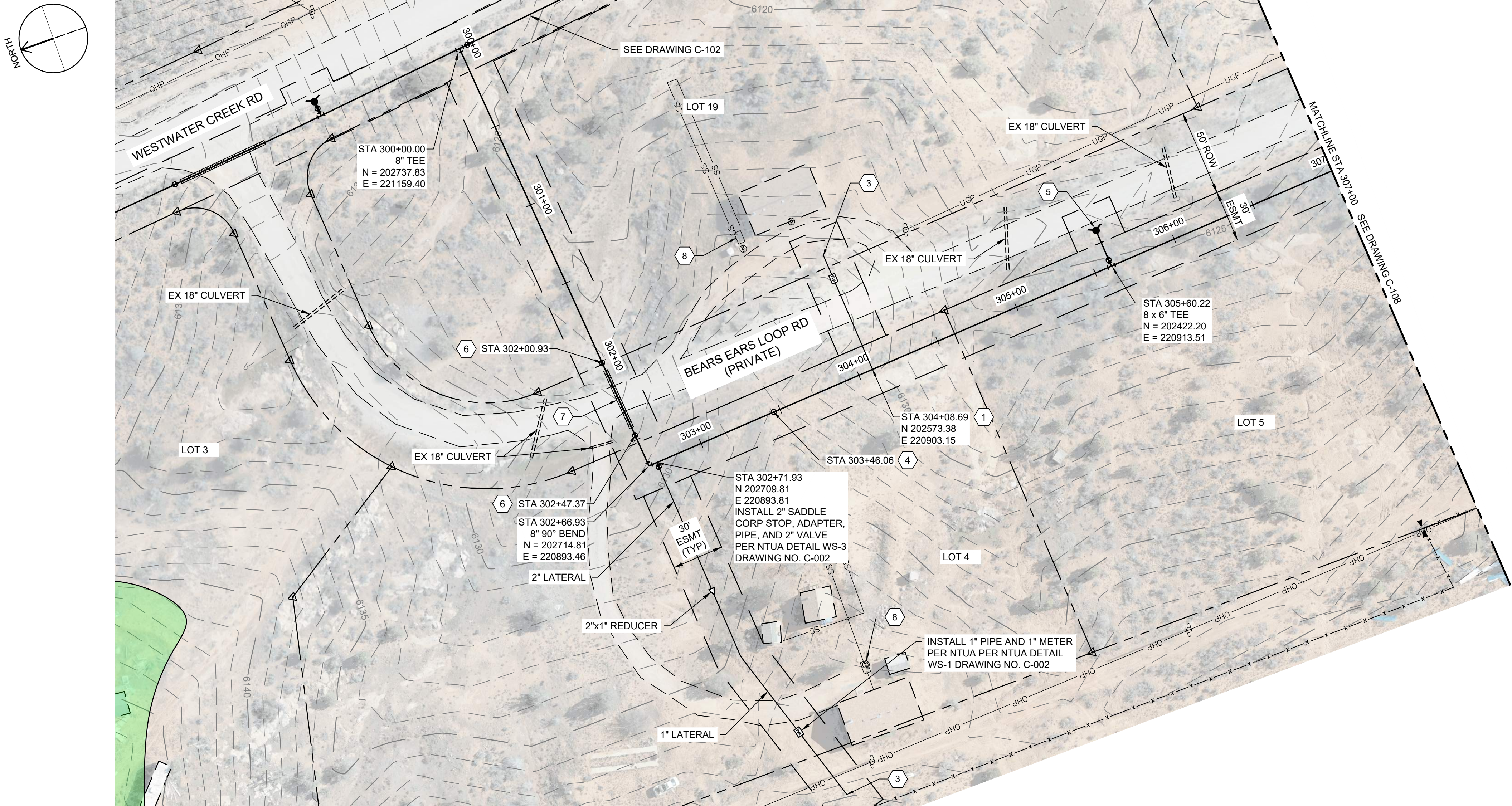
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16 SHEET NUMBER OF 22

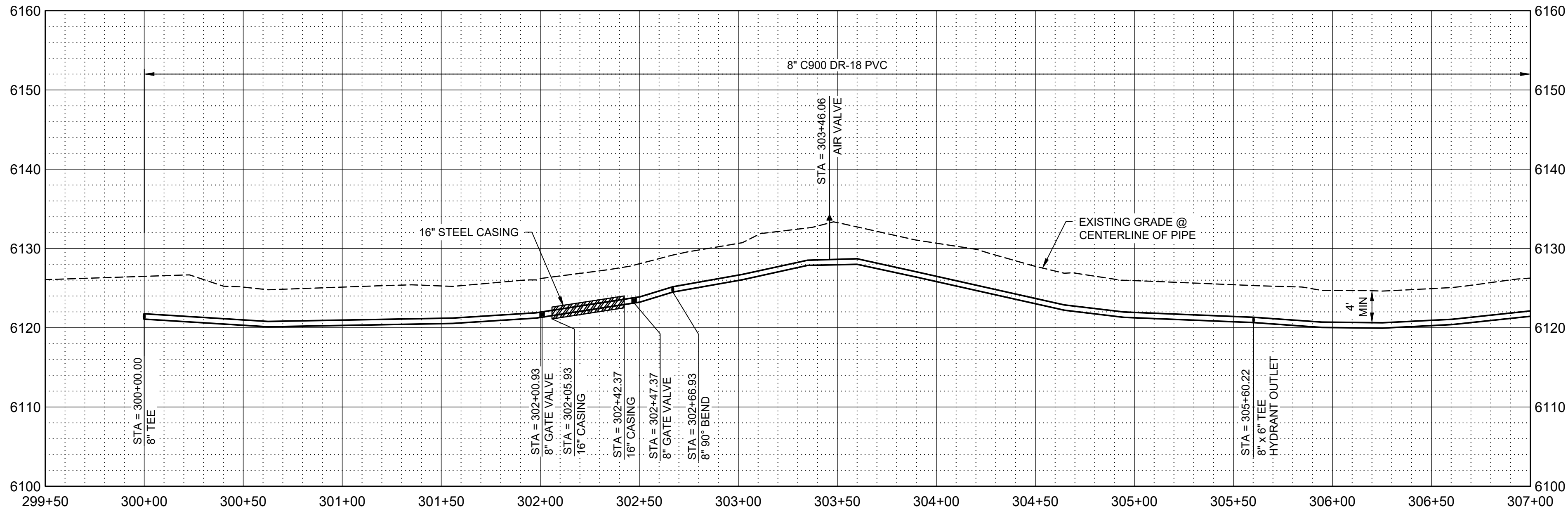
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1-800-662-4111



Path: C:\BCP\W\02841193 FILENAME: C-107.DWG PLOT DATE: 11/3/2023 10:42 AM CAD USER: DAVID DAVIDSE



PLAN



PROFILE

SCALE H: 1" = 40'  
V: 1" = 10'

## GENERAL NOTES

- ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
- CONTRACTOR TO FIELD VERIFY PHYSICAL LOCATION, ELEVATIONS AND INVERTS. ELEVATIONS ARE BASED ON NAVD 88 EXPRESS IN INTERNATIONAL FEET.
- CONTRACTOR TO PROVIDE THRUST BLOCKS AT ALL ELBOWS, TEES, CROSSES PER NTUA STD DWG WS-19 DRAWING NO. C-004. MECHANICAL JOINT RESTRAINTS CAN BE UTILIZED IN PLACE OF THRUST BLOCKS. EBA IRON MEGALUG SERIES 2000 PV FOR FITTINGS AND SERIES 2500 FOR PIPE JOINTS - INSTALL PER MANUFACTURE'S RECOMMENDATIONS.
- CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
- DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.
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## KEY NOTES

- INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
- DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN, COMPACT TO 95% COMPACTION REQUIREMENT.
- INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.
- INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
- INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
- INSTALL 16" STEEL CASING PER DETAIL WS-17A AND WS-18 DRAWING NO. C-004. PROVIDE STRUCTURAL FILL FOR ROAD CROSSING. REPLACE EXISTING ROAD BASE WITH SAME THICKNESS OR BETTER WITH 95% COMPACTION. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.
- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

## LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL OF A DULY REGISTERED PROFESSIONAL

90% SUBMITTAL



WESTWATER  
WATER SYSTEM  
DESIGN

## REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

CHECKED:

APPROVED: S. BRENCHELEY

FILENAME

C-107.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE  
STA 300+00 TO STA  
307+00

DRAWING NUMBER

C-107

17

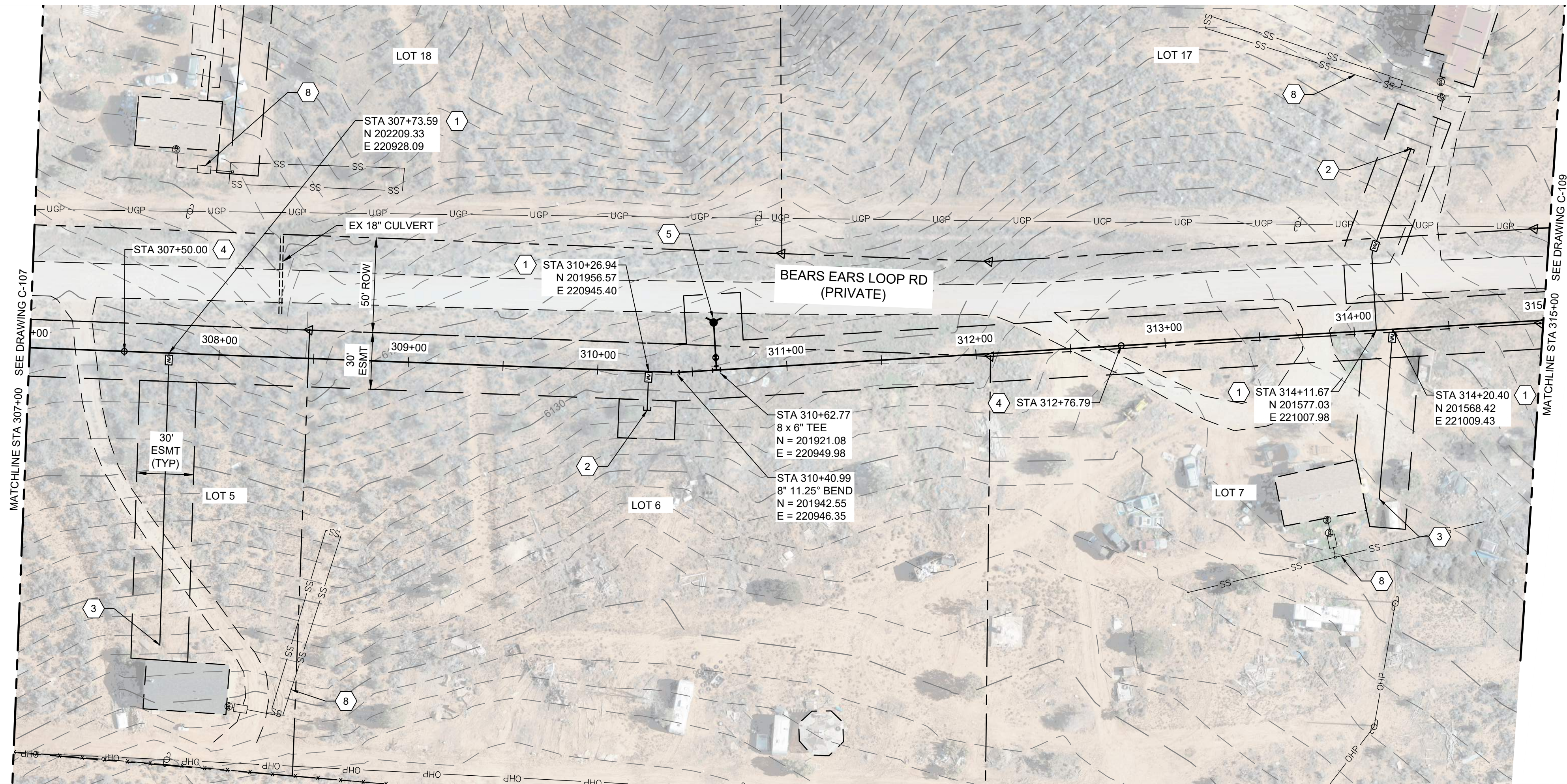
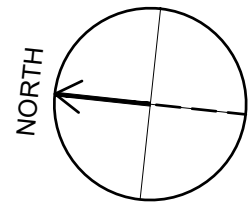
SHEET NUMBER  
OF

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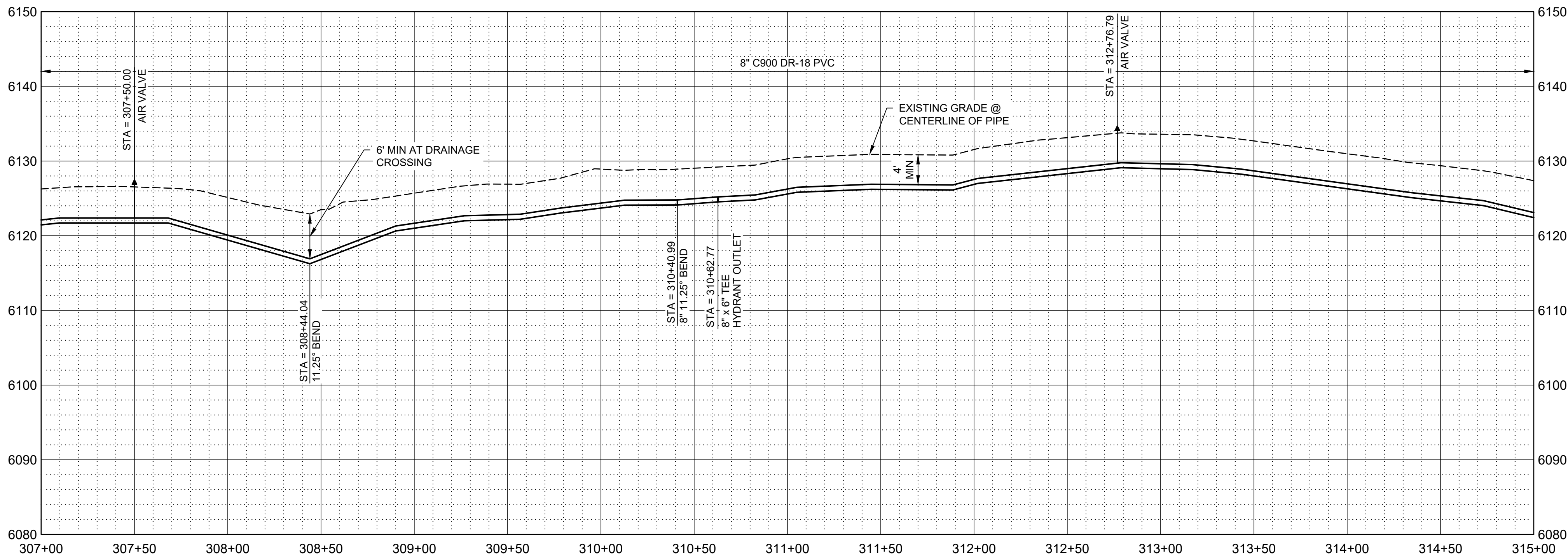
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Path: C:\BCP\W\0284\183 FILENAME: C-108.DWG PLOT DATE: 11/3/2023 10:44 AM CAD USER: DAVID DAVIDSE



PLAN



PROFILE

SCALE H: 1" = 40'  
V: 1" = 10'

### GENERAL NOTES

- ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
- CONTRACTOR TO FIELD VERIFY PHYSICAL LOCATION, ELEVATIONS AND INVERTS. ELEVATIONS ARE BASED ON NAVD 88 EXPRESS IN INTERNATIONAL FEET.
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- CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
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### KEY NOTES

- INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
- PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.
- DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN. COMPACT TO 95% COMPACTION REQUIREMENT.
- INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.
- INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

### LEGEND

 ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

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90% SUBMITTAL



WESTWATER  
WATER SYSTEM  
DESIGN

#### REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES  
AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

CHECKED:

APPROVED: S. BRENCHELEY

FILENAME

C-108.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE  
STA 307+00 TO STA  
315+00

DRAWING NUMBER

C-108

18

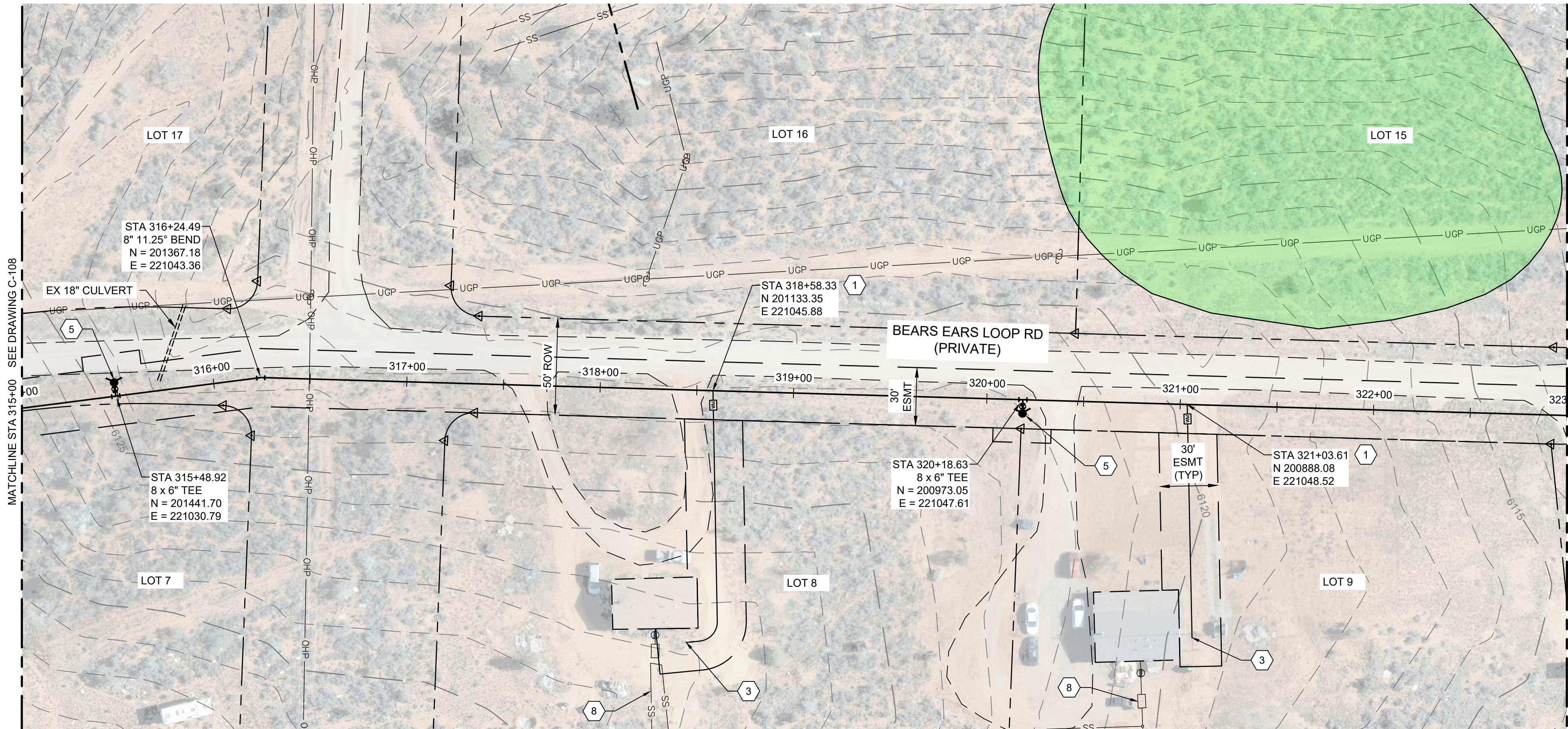
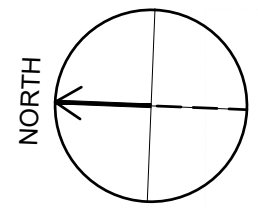
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OF

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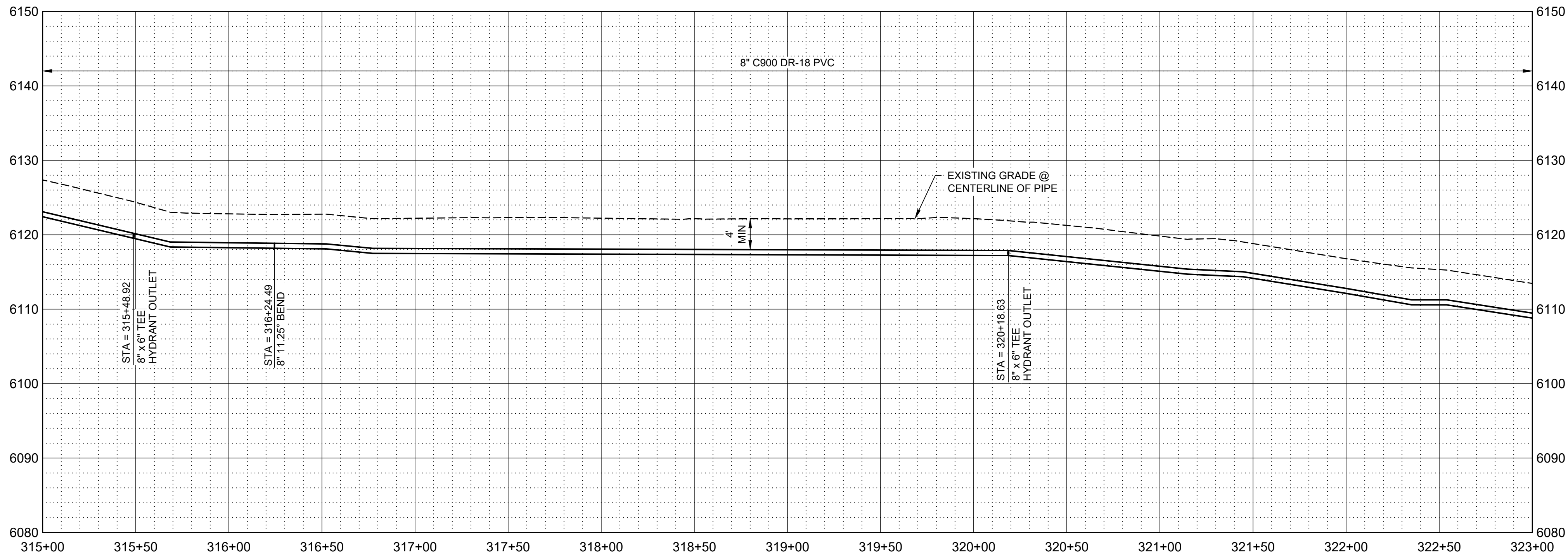




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PLAN



PROFILE

SCALE H: 1" = 40'  
V: 1" = 10'

## GENERAL NOTES

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## LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

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90% SUBMITTAL



WESTWATER  
WATER SYSTEM  
DESIGN

## REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES  
AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

APPROVED: S. BRENCHELY

FILENAME

C-109.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE  
STA 315+00 TO STA  
323+00

DRAWING NUMBER

C-109

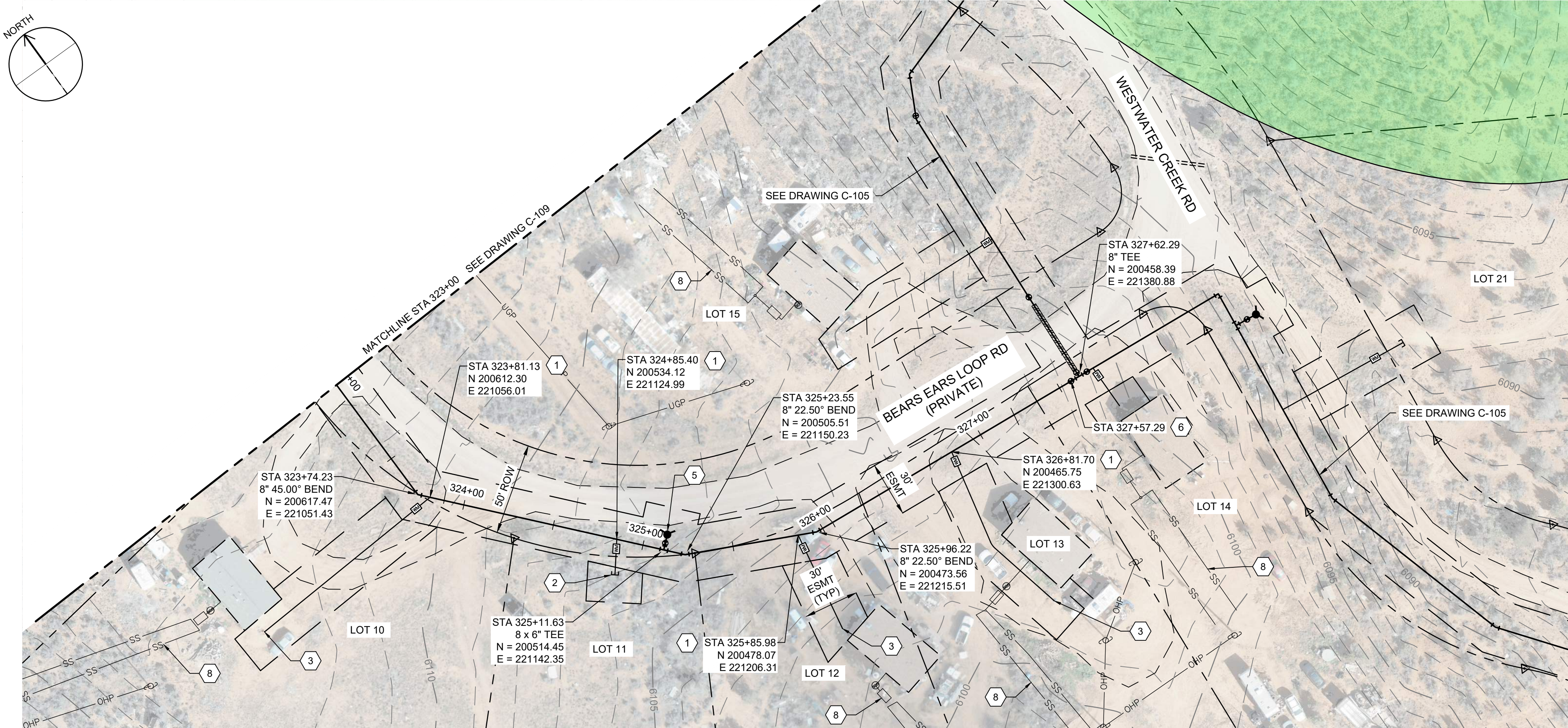
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OF

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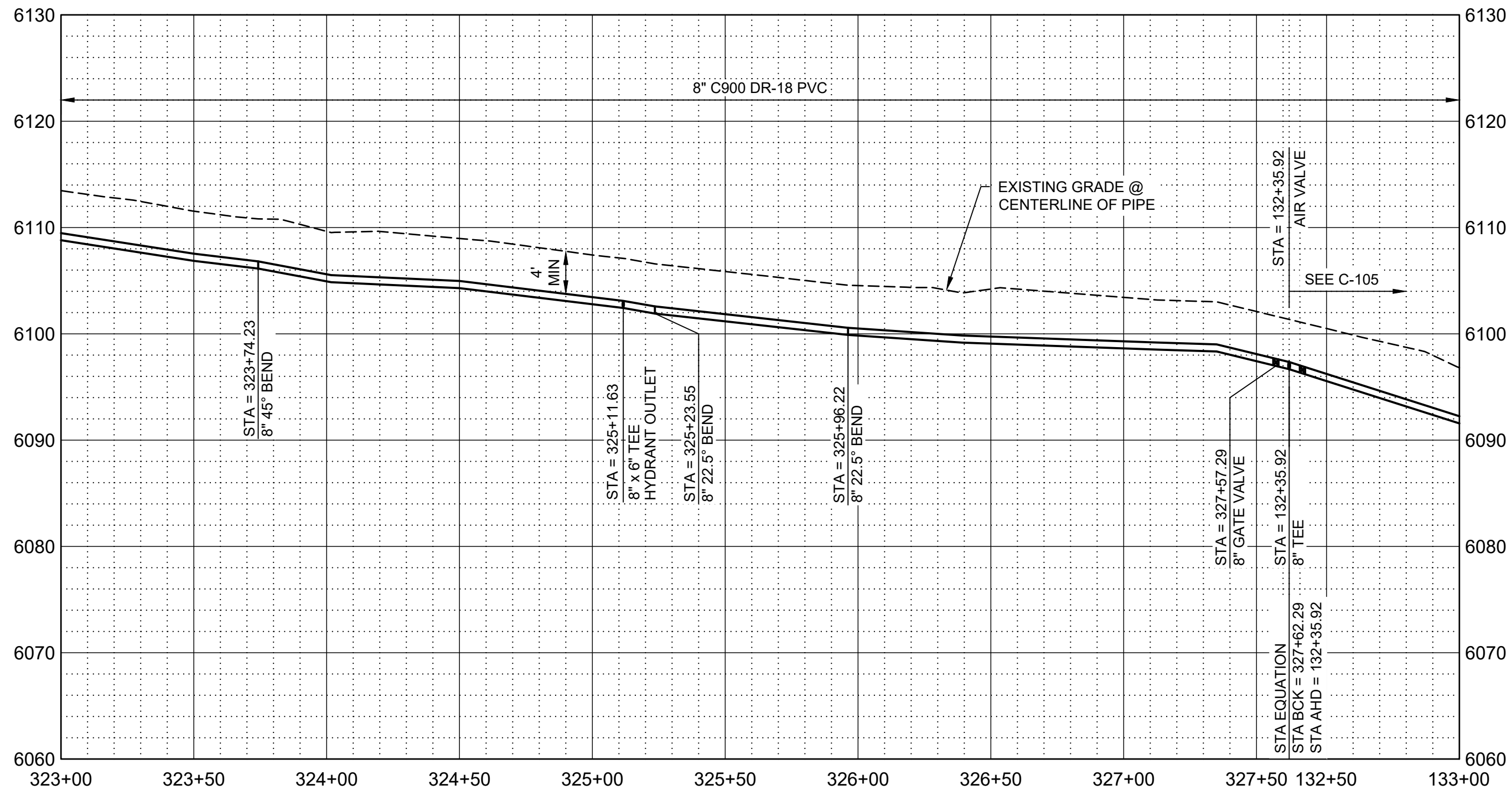
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Path: C:\BCPMD284\193 FILENAME: C-110.DWG PLOT DATE: 11/3/2023 10:47 AM CAD USER: DAVID DAVIDSE



PLAN



PROFILE

SCALE H: 1" = 40'  
V: 1" = 10'

## GENERAL NOTES

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## KEY NOTES

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- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

## LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

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90% SUBMITTAL



WESTWATER  
WATER SYSTEM  
DESIGN

## REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

CHECKED:

APPROVED: S. BRENCHELEY

FILENAME

C-110.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE  
STA 323+00 TO STA  
327+62.29

DRAWING NUMBER

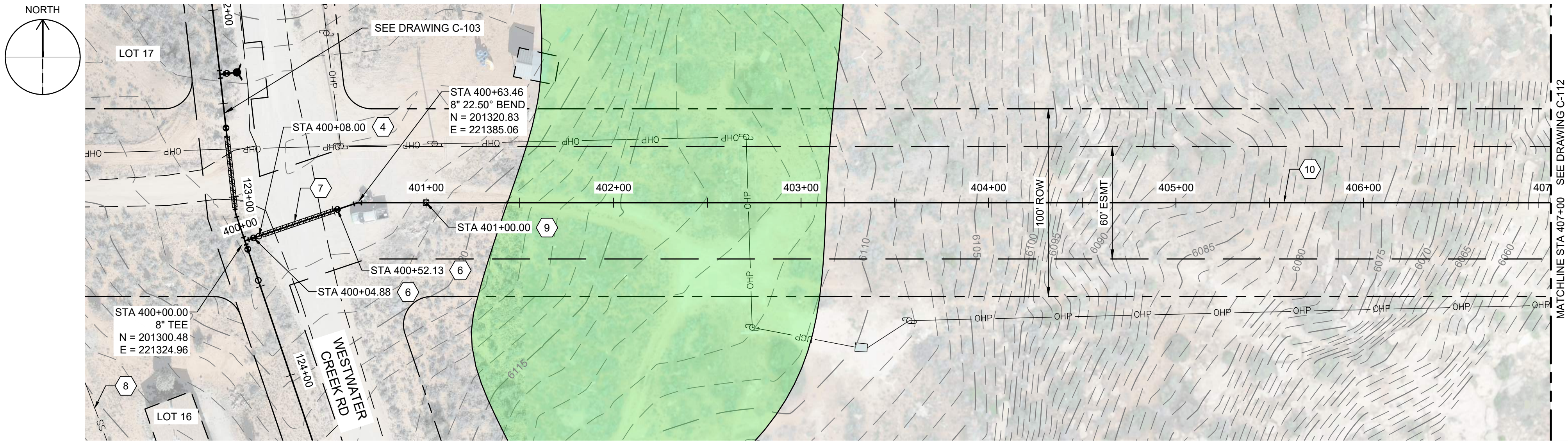
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20 SHEET NUMBER OF 22

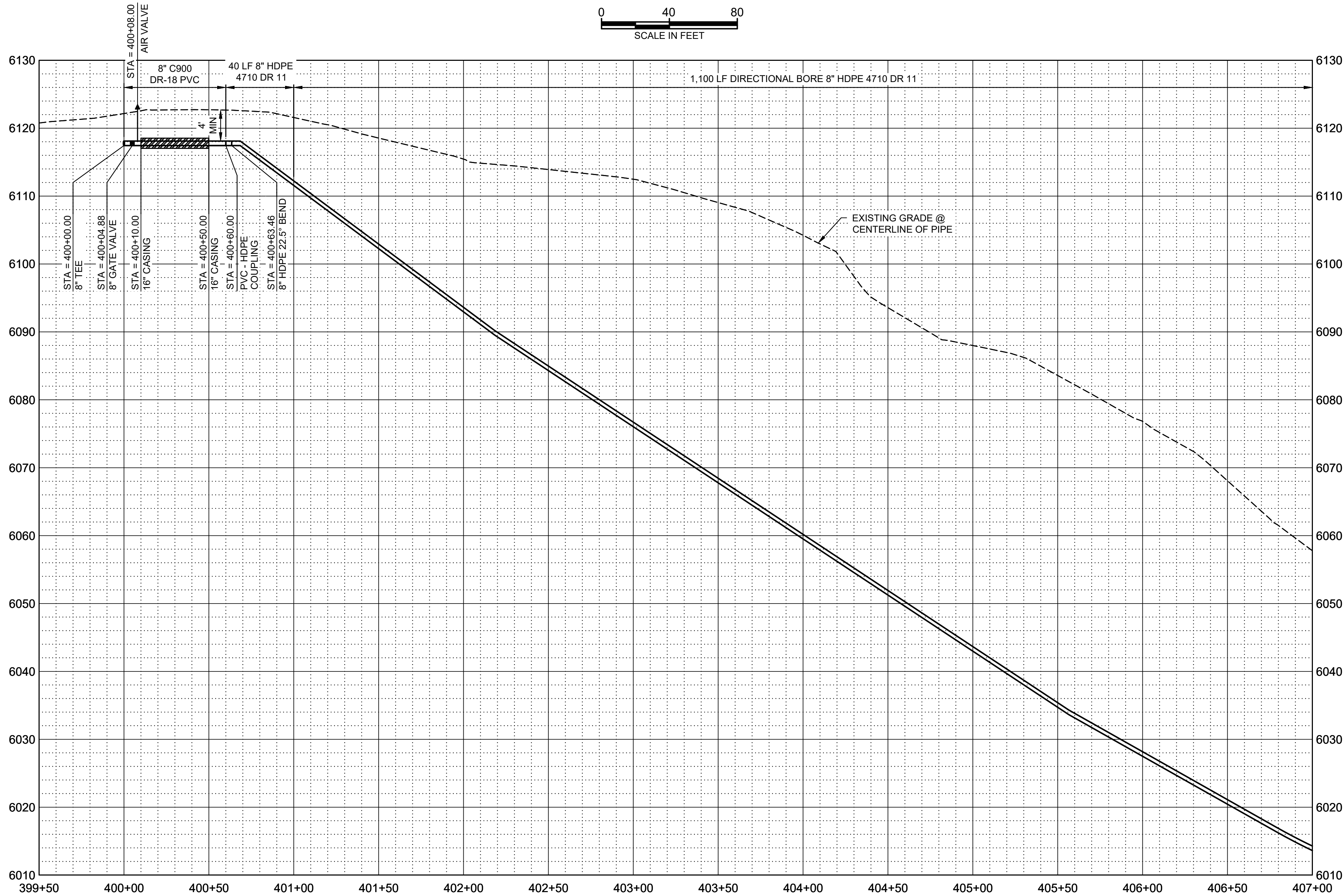
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PLAN  
0 40 80  
SCALE IN FEET



PROFILE  
SCALE H: 1" = 40'  
V: 1" = 10'

## GENERAL NOTES

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## KEY NOTES

- INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.
- INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
- INSTALL 16" STEEL CASING PER DETAIL WS-17A AND WS-18 DRAWING NO. C-004. PROVIDE STRUCTURAL FILL FOR ROAD CROSSING. REPLACE EXISTING ROAD BASE WITH SAME THICKNESS OR BETTER WITH 95% COMPACTION. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.
- APPROXIMATE LOCATION OF SEPTIC SYSTEM.
- INSTALL CONCRETE ANCHOR BLOCK PER DETAIL W-33 DRAWING NO. C-005.
- DIRECTIONAL BORE HDPE WASH CROSSING, SEE DETAIL W-33 DRAWING NO. C-005.

## LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

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WESTWATER  
WATER SYSTEM  
DESIGN

### REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED: ---

CHECKED: ---

APPROVED: S. BRENCHELY

FILENAME

C-111.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE  
STA 400+00 TO STA  
407+00

DRAWING NUMBER

C-111

SHEET NUMBER  
OF

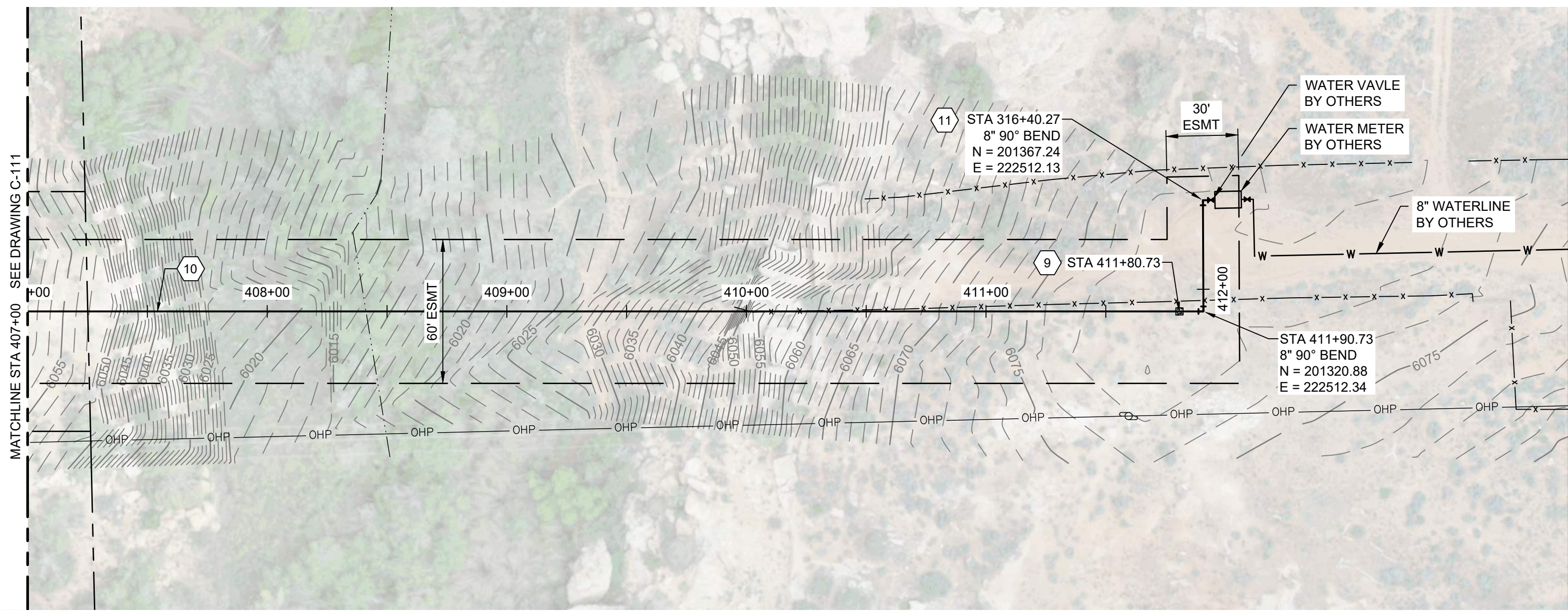
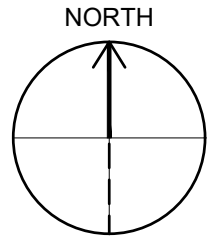
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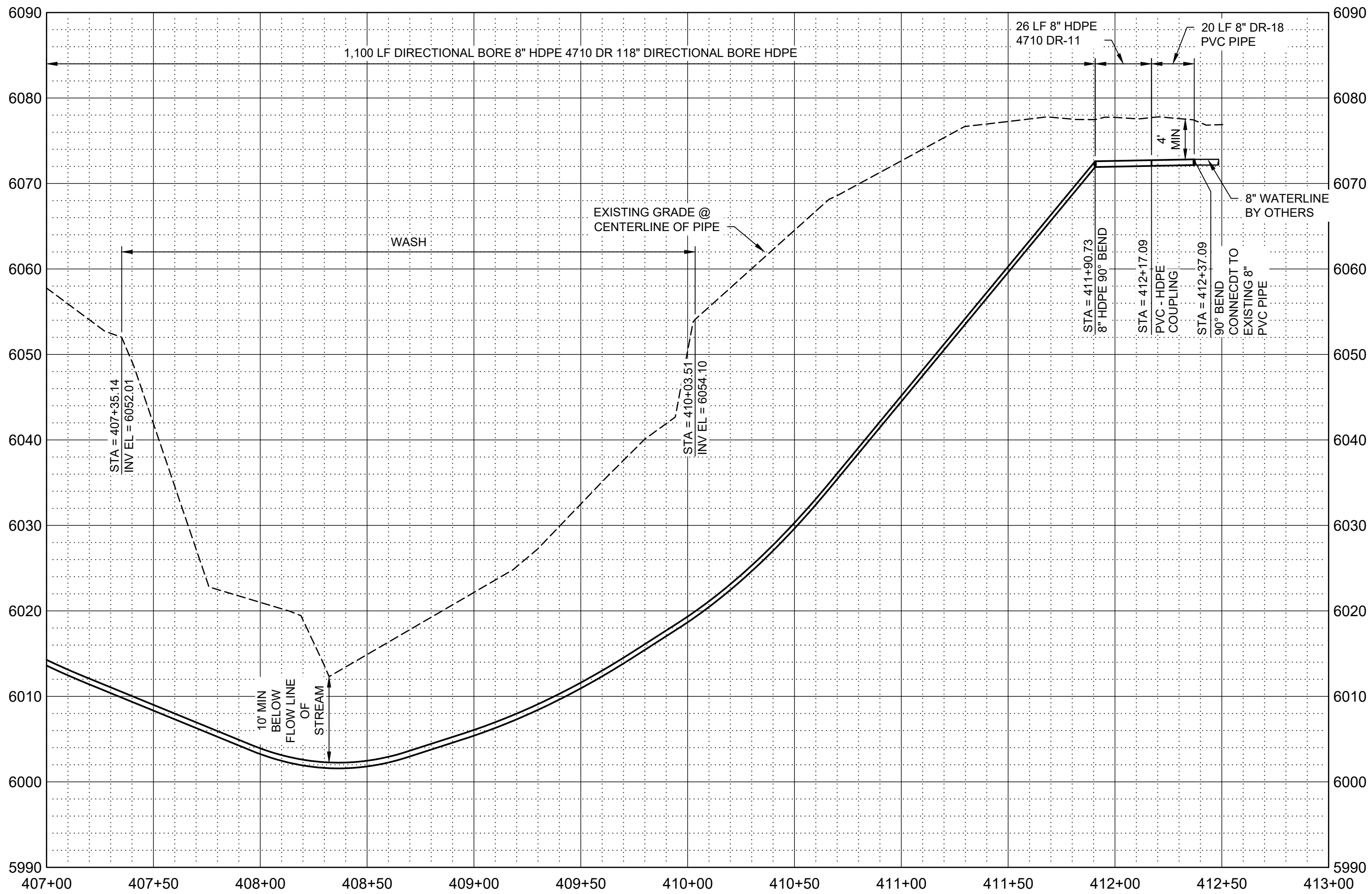
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Path: C:\BCP\W\284\193 FILENAME: C-112.DWG PLOT DATE: 11/3/2023 10:49 AM CAD USER: DAVID DAVIDSE



PLAN  
SCALE IN FEET  
0 40 80



PROFILE  
SCALE H: 1" = 40'  
V: 1" = 10'

## GENERAL NOTES

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- CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
- DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.
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## KEY NOTES

- INSTALL CONCRETE ANCHOR BLOCK PER DETAIL W-33 DRAWING NO. C-005.
- DIRECTIONAL BORE HDPE WASH CROSSING, SEE DETAIL W-33 DRAWING NO. C-005.
- CONNECT TO EXISTING 8" PVC PIPE. POTHOLE TO VERIFY LOCATION AND ELEVATION.

## LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

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90% SUBMITTAL



WESTWATER  
WATER SYSTEM  
DESIGN

## REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED: ---

CHECKED: ---

APPROVED: S. BRENCHEY

FILENAME

C-112.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE  
STA 407+00 TO STA  
412+37.09

DRAWING NUMBER

C-112

22 SHEET NUMBER OF 22

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www.bluestakes.org  
1-800-662-4111

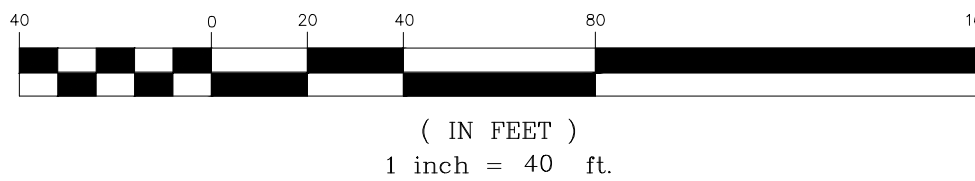


# NTUA Waterline Easement Exhibit

Located in SW  $\frac{1}{4}$  Section 27, T.36S., R.22E., S.L.B. & M.  
San Juan County, Utah

2023

GRAPHIC SCALE



## LEGEND

- EASEMENT BOUNDARY LINE
- SECTION LINE
- DEED LINE
- FENCE LINE
- PROPOSED WATERLINE
- FOUND SECTION CORNER AS NOTED
- FOUND QUARTER SECTION CORNER AS NOTED

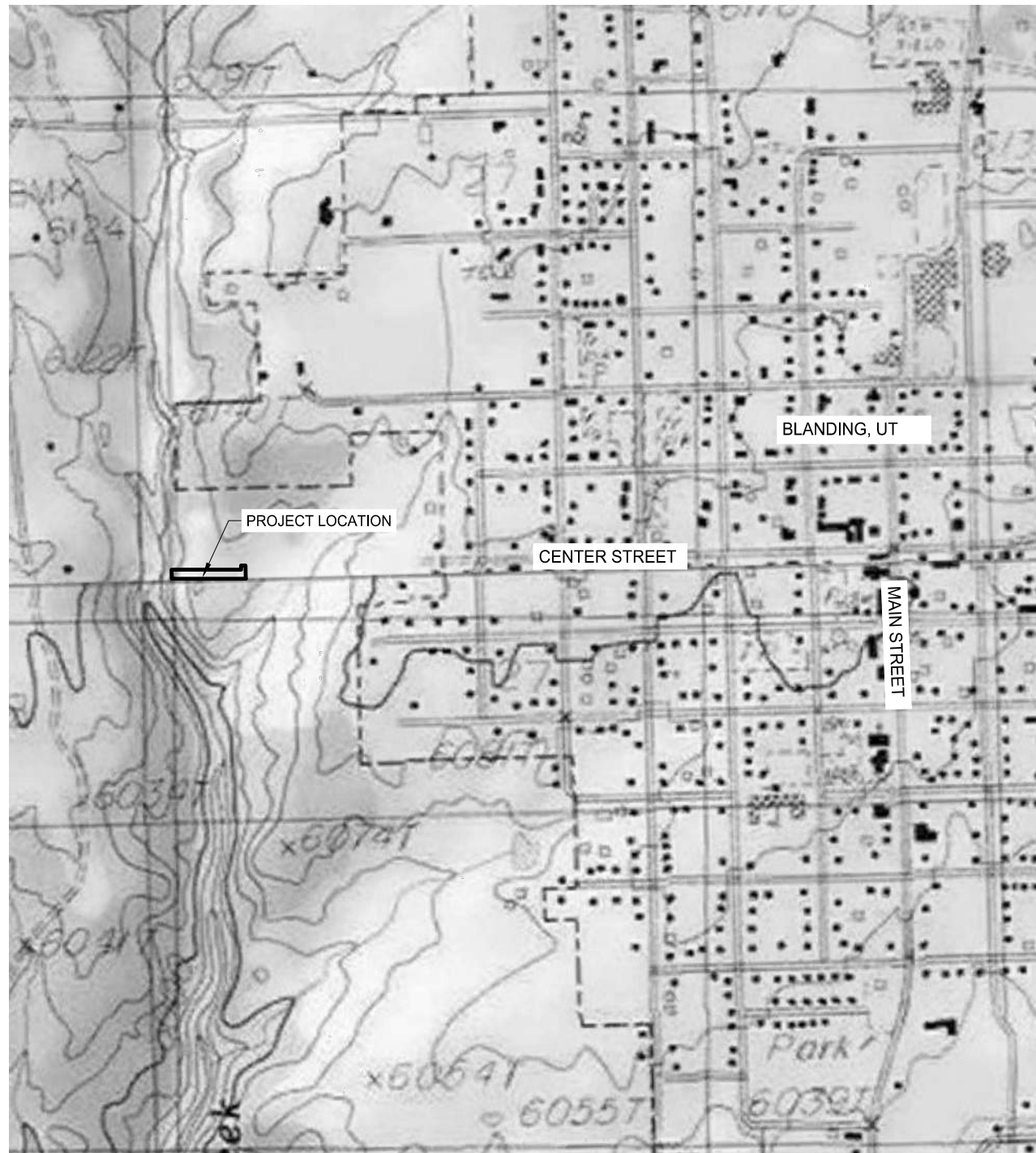
W1/4 SEC 27, T36S, R22E, SLB&M  
(FOUND ALUMINUM CAP PLS 4946)

WEST WATER  
SUBDIVISION

POINT OF BEGINNING  
CENTER STREET  
(FUTURE EXPANSION)

WEST WATER  
SUBDIVISION

SW SEC 27, T36S, R22E, SLB&M  
(FOUND 1584 SLB 60)



## VICINITY MAP

SECTION 27, T.36S., R.22E., S.L.B. & M.  
NOT TO SCALE

## EASEMENT DESCRIPTION

A TRACT OF LAND IN THE SOUTHWEST QUARTER OF SECTION 27, TOWNSHIP 36 SOUTH, RANGE 22 EAST, SALT LAKE BASE AND MERIDIAN IN SAN JUAN COUNTY, UTAH MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE WEST LINE OF SAID SECTION 27 BEING S01°19'11"E ALONG THE WEST LINE OF SAID SECTION 27 A DISTANCE OF 970.51 FEET, MORE OR LESS FROM THE WEST QUARTER CORNER OF SAID SECTION 27;

THENCE N89°59'51"E 451.13 FEET;

THENCE N00°09'27"W 26.04 FEET;

THENCE N88°44'46"E 30.00 FEET

THENCE S00°15'14"E 86.70

THENCE S89°59'51"W 480.10 FEET, MORE OR LESS, TO THE WEST LINE OF SAID SECTION 27;

THENCE N01°19'11"W ALONG THE WEST LINE OF SAID SECTION 27 A DISTANCE OF 60.02 FEET TO THE POINT OF BEGINNING.

CONTAINING 0.68 ACRES MORE OR LESS.

## NARRATIVE

1. THE PURPOSE OF THIS SURVEY WAS TO LOCATE AND DESCRIBE THE PROPOSED WATERLINE EASEMENT TO THE WESTWATER SUBDIVISION.

2. THE BASIS OF BEARINGS USED FOR THIS SURVEY IS UTAH STATE PLANE COORDINATE SYSTEM NAD83-(2011), SOUTH ZONE-4303 US FOOT AS DETERMINED BY OPUS OBSERVATION AND IS SHOWN ON THIS PLAT BETWEEN THE WEST QUARTER CORNER AND THE SOUTHWEST CORNER OF SECTION 27, TOWNSHIP 36 NORTH, RANGE 22 EAST, SALT LAKE BASE AND MERIDIAN AS S01°19'11"E.

## SURVEYOR'S CERTIFICATE

I, TYLER NIELSON, A PROFESSIONAL LAND SURVEYOR AS PRESCRIBED BY THE LAWS OF THE STATE OF UTAH, HOLDING CERTIFICATE #13525534, CERTIFY THAT THE SURVEY SHOWN HEREON WAS MADE UNDER MY DIRECTION.

I FURTHER CERTIFY THAT THIS PLAT CORRECTLY SHOWS THE DIMENSIONS OF THE PROPERTY SURVEYED TO THE BEST OF MY KNOWLEDGE.

TYLER NIELSON, P.L.S. #13525534

PREPARED BY:

**Jones & DeMille Engineering, Inc.**

CIVIL ENGINEERING - SURVEYING - TESTING - GIS - ENVIRONMENTAL

- infrastructure professionals -

1.800.748.5275 www.jonesanddemille.com

PROJECT NUMBER: 2205-060 FILE NAME: h:\jdtproj\2205-060\dwg\2205-060\_easements.dwg

SURVEYED BY: TN DRAWN BY: TN UPDATED: 9/5/2023 PLOTTED: 9/6/2023

**NTUA Waterline  
Easement Exhibit**

San Juan County, Utah

Scale: 1" = 40'



# Westwater Subdivision NTUA Waterline Easement

Located in NE  $\frac{1}{4}$  & SE  $\frac{1}{4}$  Section 28, T.36S., R.22E., S.L.B. & M.

San Juan County, Utah

2023

GRAPHIC SCALE

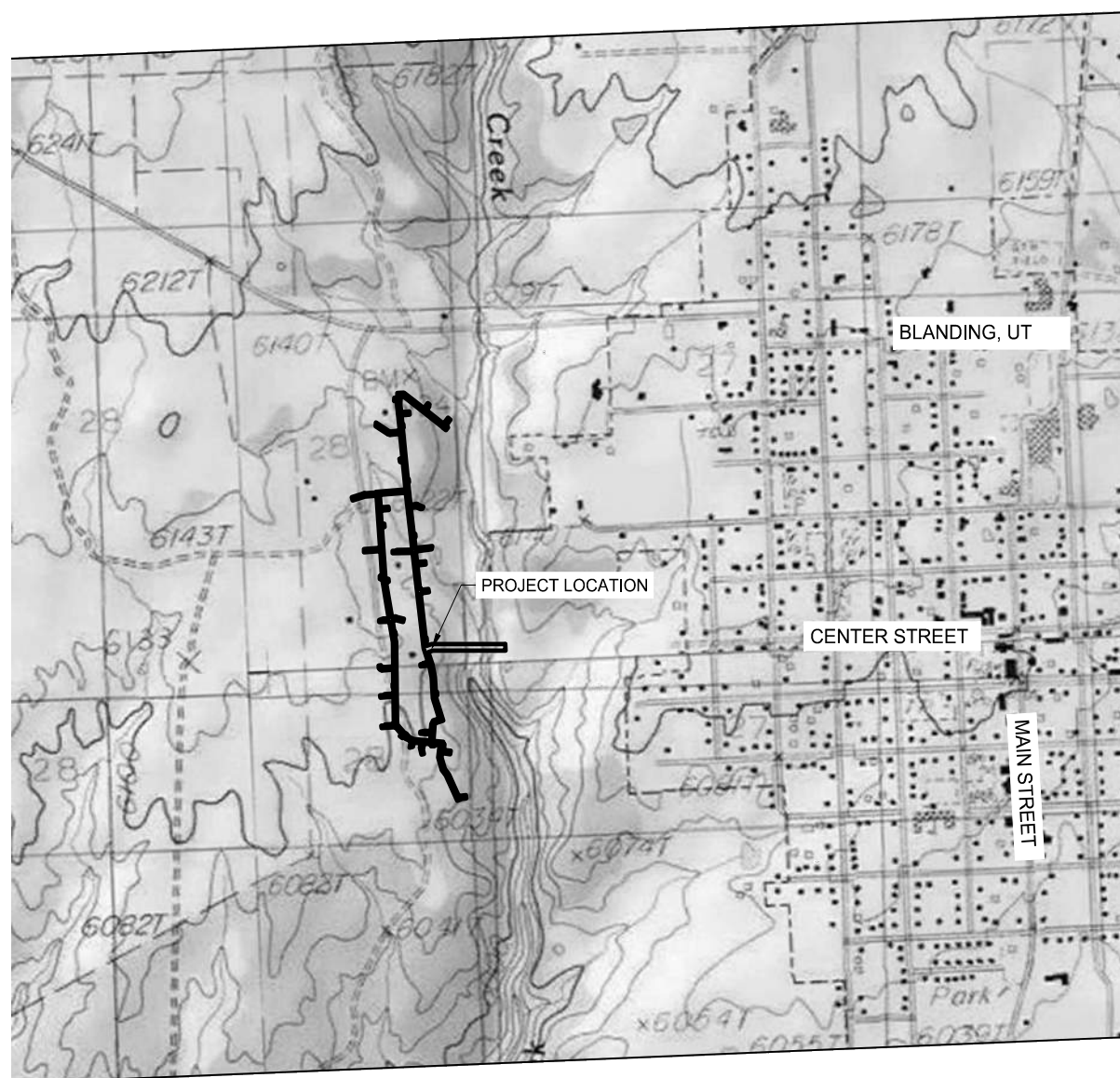


( IN FEET )  
1 inch = 250 ft.



## LEGEND

- SECTION LINE
- WATERLINE EASEMENT LINE
- FENCE LINE
- PROPOSED WATERLINE
- SUBDIVISION LOT LINE
- FOUND SECTION CORNER AS NOTED
- FOUND QUARTER SECTION CORNER AS NOTED



## VICINITY MAP

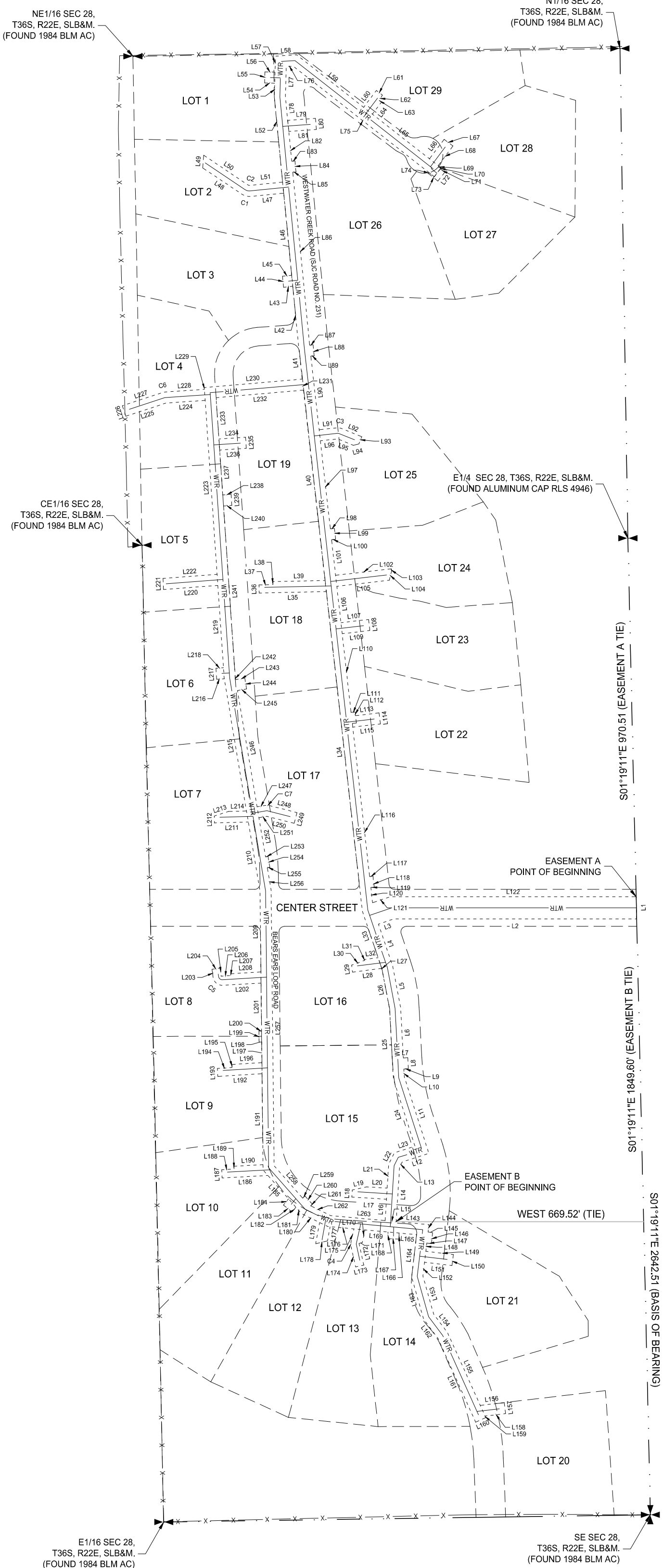
NOT TO SCALE

## EASEMENT A CURVE TABLE

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	24.09	35.00	39.43	N75° 51' 45"W	23.62
C2	3.44	5.00	39.43	S75° 51' 45"E	3.37
C3	12.29	25.00	28.17	S82° 07' 09"E	12.17

## EASEMENT B CURVE TABLE

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C4	10.91	25.00	25.01	N0° 03' 38"E	10.83
C5	37.36	25.00	85.62	N50° 32' 26"W	33.98
C6	6.20	25.00	14.20	N78° 58' 58"E	6.18
C7	10.42	25.00	23.88	S87° 37' 39"E	10.35



## EASEMENT A LINE TABLES

Parcel Line Table		
Line #	Length	Direction
L1	60.02	S1° 19' 11"E
L2	657.41	S89° 59' 51"W
L3	43.51	S71° 17' 27"W
L4	119.78	S18° 42' 33"E
L5	114.50	S10° 51' 22"E
L6	136.33	S3° 02' 36"E
L7	12.08	N86° 57' 24"E
L8	30.00	S3° 02' 36"E
L9	12.08	S86° 57' 24"W
L10	20.98	S3° 02' 36"E
L11	217.74	S17° 46' 44"E
L12	75.71	S72° 13' 16"W
L13	15.58	S27° 13' 16"W
L14	147.89	S3° 34' 37"W
L15	30.01	N84° 45' 22"W
L16	57.99	N3° 34' 37"E
L17	93.87	N86° 25' 23"W
L18	19.43	N3° 34' 37"E
L19	39.65	N78° 07' 08"E
L20	55.65	S86° 25' 23"E
L21	65.31	N3° 34' 37"E
L22	34.29	N27° 13' 16"E
L23	58.14	N72° 13' 16"E
L24	191.62	N17° 46' 44"W
L25	189.15	N3° 02' 36"W
L26	110.40	N10° 51' 22"W
L27	1.56	N16° 42' 33"W
L28	79.70	S82° 35' 00"W
L29	19.19	N7° 25' 00"W
L30	37.50	N70° 01' 45"E
L31	2.72	N20° 06' 27"W
L32	37.71	N82° 35' 00"E
L33	132.69	N18° 42' 33"W
L34	870.33	N6° 26' 56"W
L35	181.54	S88° 41' 29"W
L36	21.99	N1° 18' 31"W
L37	37.60	N88° 41' 29"E
L38	8.01	N2° 29' 58"W
L39	141.41	N88° 41' 29"E
L40	548.27	N6° 26' 56"W
L41	90.14	N6° 18' 00"W
L42	162.23	N5° 34' 32"W
L43	24.85	S83° 56' 01"W
L44	30.00	N6° 03' 59"W
L45	25.10	N83° 56' 01"E
L46	223.12	N5° 34' 32"W
L47	90.16	S84° 25' 15"W
L48	128.04	N56° 08' 43"W
L49	34.47	N4° 20' 44"E
L50	145.02	S56° 08' 43"E
L51	90.16	N84° 25' 15"E
L52	231.25	N5° 34' 40"W
L53	37.47	N1° 40' 13"E
L54	27.35	N88° 19' 47"W
L55	30.00	N1° 40' 13"E
L56	27.35	S88° 19' 47"E
L57	43.39	N1° 40' 13"E
L58	57.77	N86° 40' 13"E
L59	229.82	S51° 54' 59"E
L60	56.98	N37° 05' 01"E
L61	20.83	S52° 54' 59"E
L62	16.98	S31° 42' 17"W
L63	7.61	S57° 27' 24"E
L64	41.20	S37° 05' 01"W
L65	196.10	S51° 54' 59"E
L66	66.17	N37° 05' 01"E
L67	30.00	S52° 54' 59"E
L68	66.69	S37° 05' 01"W
L69	10.04	S51° 54' 59"E
L70	3.00	S38° 05' 01"W

## EASEMENT B LINE TABLES

Parcel Line Table		
Line #	Length	Direction
L143	89.06	S84° 45' 22"E
L144	20.20	S6° 44' 38"W
L145	12.42	S83° 15' 22"E
L146	30.00	S6° 44' 38"W
L147	12.42	N83° 15' 22"W
L148	22.40	S6° 44' 38"W
L149	75.00	S83° 15' 22"E
L150	30.00	S6° 44' 38"W
L151	75.00	N83° 15' 22"W
L152	37.27	S6° 44' 38"W
L153	107.38	S15° 45' 22"E
L154	61.88	S37° 00' 22"E
L155	216.59	S24° 13' 54"E
L156	65.28	N83° 14' 33"E
L157	30.00	S6° 45' 27"E
L158	55.83	S83° 14' 33"W
L159	4.56	S24° 13' 54"E
L160	30.00	S65° 46' 06"W
L161	249.25	N24° 13' 54"W
L162	64.15	N37° 00' 22"W
L163	118.98	N15° 45' 22"W
L164	115.05	N6° 44' 38"E
L165	47.71	N84° 45' 22"W
L166	16.46	S0° 46' 05"W
L167	30.01	N87° 55' 32"W
L168	18.12	N0° 46' 05"E
L169	62.43	N84° 45' 22"W
L170	35.27	S12° 34' 00"W
L171	8.84	S77° 02' 35"W
L172	60.29	S12° 26' 48"E
L173	22.75	S77° 33' 12"W
L174	58.08	N12° 26' 48"W
L175	36.29	N12° 34' 00"E
L176	64.64	N84° 45' 22"W
L177	39.38	S10° 29' 00"W
L178	32.64	S77° 17' 02"W
L179	58.19	N10° 29' 00"E
L180	54.04	N63° 55' 23"W
L181	23.36	N41° 25' 23"W
L182	16.63	S38° 53' 34"W
L183	30.00	N51° 06' 28"W
L184	21.75	N38° 53' 34"E
L185	84.33	N41° 25' 23"W
L186	123.89	S86° 47' 52"W
L187	22.14	N3° 12' 08"W
L188	33.59	N85° 27' 10"E
L189	7.07	N3° 53' 13"W
L190	78.82	N86° 47' 52"E
L191	245.95	N0° 37' 06"W
L192	119.80	S86° 32' 03"W
L193	21.52	N3° 27' 57"W
L194	39.84	N86° 32' 03"E
L195	8.48	N3° 48' 31"W
L196	81.50	N86° 32' 03"E
L197	55.71	N0° 37' 06"W
L198	7.12	S89° 22' 54"W
L199	30.00	N0° 37' 06"W
L200	7.12	N89° 22' 54"E
L201	129.56	N0° 37' 06"W
L202	103.62	S86° 38' 50"W
L203	22.06	N7° 43' 43"W
L204	23.53	N82° 16' 17"E
L205	21.88	N3° 05' 00"W
L206	26.49	N86° 38' 50"E
L207	5.00	N3° 53' 42"W
L208	81.86	N86° 38' 50"E
L209	218.37	N0° 37' 06"W
L210	189.89	N9° 34' 07"W
L211	91.73	S88° 29' 15"W
L212	18.81	N1° 30' 45"W

## EASEMENT B LINE TABLES

Parcel Line Table		
Line #	Length	Direction
L213	40.44	N72° 25' 07"E
L214	48.62	N88° 29' 15"E
L215	362.69	N9° 34' 07"W
L216	20.56	S86° 09' 07"W
L217	30.00	N3° 50' 53"W
L218	20.50	N86° 09' 07"E
L219	223.23	N3° 55' 06"W
L220	147.66	S85° 41' 37"W
L221	30.02	N2° 07' 37"W
L222	146.72	N85° 41' 37"E
L223	471.76	N3° 55' 06"W
L224	106.28	S86° 04' 54"W
L225	114.42	S71° 53' 02"W
L226	30.00	N18° 06' 58"W
L227	115.04	N71° 53' 02"E
L228	106.90	N86° 04' 54"E
L229	4.74	N3° 55' 06"W
L230	266.05	N85° 03' 04"E
L231	30.01	S6° 26' 56"E
L232	237.37	S85° 03' 04"W
L233	112.04	S3° 55' 06"E
L234	72.28	N86° 09' 07"E
L235	30.00	S3° 50' 53"E
L236	72.25	S86° 09' 07"W
L237	121.50	S3° 55' 37"E
L238	22.57	N86° 04' 54"E
L239	30.00	S3° 55' 06"E
L240	22.57	S86° 04' 54"W
L241	465.04	S3° 55' 06"E
L242	6.04	S9° 34' 07"E
L243	25.17	N80° 25' 53"E
L244	30.00	S9° 34' 07"E
L245	25.17	S80° 25' 53"W
L246	318.90	S9° 34' 07"E
L247	23.14	N80° 25' 53"E
L248	77.28	S75° 41' 02"E
L249	30.00	S14° 18' 58"W
L250	76.22	N75° 41' 02"W
L251	22.08	S80° 25' 53"W
L252	107.25	S9° 34' 07"E
L253	7.09	N80° 25' 53"E
L254	30.00	S9° 34' 07"E
L255	7.09	S80° 25' 53"W
L256	61.74	S9° 34' 07"E
L257	745.34	S0° 37' 06"E
L258	116.82	S41° 25' 23"E
L259	8.53	N48° 34' 37"E
L260	30.00	S41° 25' 23"E
L261	6.01	S48° 34' 37"W
L262	60.37	S63° 55' 23"E
L263	177.88	S84° 45' 22"E

## NARRATIVE

- THE PURPOSE OF THIS SURVEY WAS TO LOCATE AND DESCRIBE THE PROPOSED WATERLINE EASEMENT WITHIN THE WESTWATER SUBDIVISION.
- THE BASIS OF BEARINGS USED FOR THIS SURVEY IS UTAH STATE PLANE COORDINATE SYSTEM NAD83-(2011), SOUTH ZONE-4303 US FOOT AS DETERMINED BY OPUS OBSERVATION AND IS SHOWN ON THIS PLAT BETWEEN THE WEST QUARTER CORNER AND THE SOUTHWEST CORNER OF SECTION 27, TOWNSHIP 36 SOUTH, RANGE 22 EAST, SALT LAKE BASE AND MERIDIAN AS S01°19'11"E.
- THE SURVEYOR'S SIGNATURE AND STAMP APPLIES TO BOTH SHEETS 1 AND 2.

## SURVEYOR'S CERTIFICATE

I, TYLER NIELSON, A PROFESSIONAL LAND SURVEYOR AS PRESCRIBED BY THE LAWS OF THE STATE OF UTAH, HOLDING CERTIFICATE #13525534, CERTIFY THAT THE SURVEY SHOWN HEREON WAS MADE UNDER MY DIRECTION.

I FURTHER CERTIFY THAT THIS PLAT CORRECTLY SHOWS THE DIMENSIONS OF THE PROPERTY SURVEYED TO THE BEST OF MY KNOWLEDGE.

TYLER NIELSON, P.L.S. #13525534

PREPARED BY:

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PROJECT NUMBER: 2205-060 FILE NAME: h:\d\proj\2205-060\dwg\2205-060\_ww easement.dwg  
SURVEYED BY: TN DRAWN BY: TN UPDATED: 10/11/2023 PLOTTED: 10/11/2023

## NTUA Waterline Easement Exhibit

San Juan County, Utah

Scale: 1" = 250'

SHEET 1 OF 2



# Westwater Subdivision NTUA Waterline Easement

Located in NE  $\frac{1}{4}$  & SE  $\frac{1}{4}$  Section 28, T.36S., R.22E., S.L.B. & M.

San Juan County, Utah

2023

## EASEMENT A DESCRIPTION

A TRACT OF LAND IN THE NORTHEAST AND SOUTHEAST QUARTER OF SECTION 28, TOWNSHIP 36 SOUTH, RANGE 22 EAST, SALT LAKE BASE AND MERIDIAN IN SAN JUAN COUNTY, UTAH MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE EAST LINE OF SAID SECTION 28 BEING S01°19'11"E ALONG THE EAST LINE OF SAID SECTION 28 A DISTANCE OF 970.51 FEET, MORE OR LESS FROM THE EAST QUARTER CORNER OF SAID SECTION 28;

THENCE S01°19'11"E ALONG THE EAST LINE OF SAID SECTION 28 A DISTANCE OF 60.02 FEET;

THENCE S89°59'51"W 657.41 FEET;

THENCE S71°17'27"W 43.51 FEET;

THENCE S18°42'33"E 119.78 FEET;

THENCE S10°51'22"E 114.50 FEET;

THENCE S03°02'38"E 136.33 FEET;

THENCE N86°57'24"E 12.08 FEET;

THENCE S03°02'38"E 30.00 FEET;

THENCE S86°57'24"W 12.08 FEET;

THENCE S03°02'38"E 20.98 FEET;

THENCE S17°46'44"E 217.74 FEET;

THENCE S72°13'16"W 75.71 FEET;

THENCE S27°13'16"W 15.58 FEET;

THENCE S03°34'37"W 147.89 FEET;

THENCE N84°45'22"W 30.01 FEET;

THENCE N03°34'37"E 57.99 FEET;

THENCE N86°25'23"W 93.87 FEET;

THENCE N03°34'37"E 19.43 FEET;

THENCE N78°07'08"E 39.65 FEET;

THENCE N86°25'23"E 55.65 FEET;

THENCE N03°34'37"E 65.31 FEET;

THENCE N27°13'16"E 34.29 FEET;

THENCE N72°13'16"E 58.14 FEET;

THENCE N17°46'44"W 191.62 FEET;

THENCE N03°02'36"W 189.15 FEET;

THENCE N10°51'22"W 110.40 FEET;

THENCE N18°42'33"W 1.56 FEET;

THENCE S82°35'00"W 79.70 FEET;

THENCE N07°25'00"W 19.19 FEET;

THENCE N70°01'45"E 37.50 FEET;

THENCE N20°06'27"W 2.72 FEET;

THENCE N82°35'00"E 37.71 FEET;

THENCE N18°42'33"W 132.69 FEET;

THENCE N06°26'56"W 870.33 FEET;

THENCE S88°41'29"W 181.54 FEET;

THENCE N01°18'31"W 21.99 FEET;

THENCE N88°41'29"E 37.60 FEET;

THENCE N02°29'58"W 8.01 FEET;

THENCE N88°41'29"E 141.41 FEET;

THENCE N06°26'56"W 548.27 FEET;

THENCE N06°18'00"W 90.14 FEET;

THENCE N05°34'32"W 162.23 FEET;

THENCE S83°56'01"W 24.85 FEET;

THENCE N06°03'59"W 30.00 FEET;

THENCE N83°56'01"E 25.10 FEET;

THENCE N05°34'32"W 223.12 FEET;

THENCE S84°25'15"W 90.16 FEET;

THENCE ALONG A 35 FOOT RADIUS CURVE TO THE RIGHT A DISTANCE OF 24.09 FEET, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF N75°51'45"W 23.62 FEET;

THENCE N56°08'43"W 128.04 FEET;

THENCE N04°20'44"E 34.47 FEET;

THENCE S56°08'43"E 145.02 FEET;

THENCE ALONG A 5 FOOT RADIUS CURVE TO THE RIGHT A DISTANCE OF 3.44 FEET, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF S75°51'45"E 3.37 FEET;

THENCE N84°25'15"E 90.16 FEET;

THENCE N05°34'40"W 231.25 FEET;

THENCE N01°40'13"E 37.47 FEET;

THENCE N88°19'47"W 27.35 FEET;

THENCE N01°40'13"E 30.00 FEET;

THENCE S88°19'47"E 27.35 FEET;

THENCE N01°40'13"E 43.39 FEET;

THENCE N86°40'13"E 57.77 FEET;

THENCE S51°54'59"E 229.82 FEET;

THENCE N37°05'01"E 56.98 FEET;

THENCE S52°54'59"E 20.83 FEET;

THENCE S31°42'17"W 16.98 FEET;

THENCE S57°27'24"E 7.61 FEET;

THENCE S37°05'01"W 41.20 FEET;

THENCE S51°54'59"E 196.10 FEET;

THENCE N37°05'01"E 66.17 FEET;

THENCE S52°54'59"E 30.00 FEET;

THENCE S37°05'01"W 66.69 FEET;

THENCE S51°54'59"E 10.04 FEET;

THENCE S38°05'01"W 3.00 FEET;

THENCE S51°54'59"E 15.00 FEET;

THENCE S38°05'01"W 30.00 FEET;

THENCE N51°54'59"W 33.00 FEET;

THENCE N38°05'01"E 3.00 FEET;

THENCE N51°54'59"W 466.63 FEET;

THENCE S86°40'13"W 18.94 FEET;

THENCE S01°40'13"W 81.47 FEET;

THENCE S05°34'47"E 64.46 FEET;

THENCE N85°47'53"E 75.37 FEET;

THENCE S04°12'07"E 30.00 FEET;

THENCE S85°47'53"W 74.65 FEET;

THENCE S05°34'32"E 80.87 FEET;

THENCE N84°25'28"E 8.73 FEET;

THENCE S05°34'32"E 30.00 FEET;

THENCE S84°25'28"W 8.73 FEET;

THENCE S05°34'32"E 470.01 FEET;

THENCE N84°25'28"E 9.29 FEET;

THENCE S05°34'32"E 30.00 FEET;

THENCE S84°25'28"W 9.06 FEET;

THENCE S06°26'56"E 200.34 FEET;

THENCE N83°47'53"E 48.17 FEET;

THENCE ALONG A 25 FOOT RADIUS CURVE TO THE RIGHT A DISTANCE OF 12.29 FEET, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF S82°07'05"E 12.17 FEET;

THENCE S88°02'11"E 59.87 FEET;

THENCE S21°57'49"W 20.94 FEET;

THENCE S78°13'11"W 15.52 FEET;

THENCE N68°02'11"W 46.02 FEET;

THENCE S83°47'53"W 46.79 FEET;

THENCE S06°26'56"E 239.52 FEET;

THENCE N83°33'04"E 11.26 FEET;

THENCE S06°26'56"E 30.00 FEET;

THENCE S83°33'04"W 11.26 FEET;

THENCE S06°26'56"E 96.79 FEET;

THENCE N83°19'44"E 152.01 FEET;

THENCE S06°40'16"E 6.01 FEET;

THENCE S14°00'58"W 25.64 FEET;

THENCE S83°19'44"W 143.06 FEET;

THENCE S06°26'56"E 98.99 FEET;

THENCE N83°22'34"E 75.30 FEET;

THENCE S06°37'26"E 30.00 FEET;

THENCE S83°22'34"W 75.39 FEET;

THENCE S06°26'56"E 214.20 FEET;

THENCE N83°33'04"E 11.03 FEET;

THENCE S06°07'16"E 10.18 FEET;

THENCE N83°19'44"E 64.19 FEET;

THENCE S06°40'16"E 30.00 FEET;

THENCE S83°19'44"W 75.28 FEET;

THENCE S06°26'56"E 406.58 FEET;

THENCE N83°33'04"E 9.12 FEET;

THENCE S06°26'56"E 30.00 FEET;

THENCE S83°33'04"W 9.12 FEET;

THENCE S06°26'56"E 41.41 FEET;

THENCE N71°17'27"E 49.90 FEET;

THENCE N89°59'51"E 665.91 FEET MORE OR LESS TO THE POINT OF BEGINNING.

CONTAINING 4.45 ACRES MORE OR LESS.

## EASEMENT B DESCRIPTION

A TRACT OF LAND IN THE NORTHEAST AND SOUTHEAST QUARTER OF SECTION 28, TOWNSHIP 36 SOUTH, RANGE 22 EAST, SALT LAKE BASE AND MERIDIAN IN SAN JUAN COUNTY, UTAH MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT BEING LOCATED S01°19'11"E ALONG THE EAST LINE OF SAID SECTION 28 A DISTANCE OF 1849.60 FEET AND WEST 669.52 FEET, MORE OR LESS FROM THE EAST QUARTER CORNER OF SAID SECTION 28;

THENCE S84°45'22"E 89.06 FEET;

THENCE S06°44'38"W 20.20 FEET;

THENCE S83°15'22"E 12.42 FEET;

THENCE S06°44'38"W 30.00 FEET;

THENCE N83°15'22"W 12.42 FEET;

THENCE S06°44'38"W 22.40 FEET;

THENCE S83°15'22"E 75.00 FEET;

THENCE S06°44'38"W 30.00 FEET;

THENCE N83°15'22"W 75.00 FEET;

THENCE S06°44'38"W 37.27 FEET;

THENCE S15°45'22"E 107.38 FEET;

THENCE S37°00'22"E 61.88 FEET;

THENCE S24°13'54"E 216.59 FEET;

THENCE N83°14'33"E 65.28 FEET;

THENCE S06°45'27"E 30.00 FEET;

THENCE S83°14'33"W 55.83 FEET;

THENCE S24°13'54"E 4.56 FEET;

THENCE S65°46'06"W 30.00 FEET;

THENCE N24°13'54"W 249.25 FEET;

THENCE N37°00'22"W 64.15 FEET;

THENCE N15°45'22"W 118.98 FEET;

THENCE N06°44'38"E 115.05 FEET;

THENCE N84°45'22"W 47.71 FEET;

THENCE S00°46'05"W 16.46 FEET;

THENCE N87°55'32"W 30.01 FEET;

THENCE N00°46'05"E 18.12 FEET;

THENCE N84°45'22"W 62.43 FEET;

THENCE S12°34'00"W 35.27 FEET;

THENCE S77°02'35"W 8.84 FEET;

THENCE S12°26'48"E 60.29 FEET;

THENCE S77°33'12"W 22.75 FEET;

THENCE N12°26'48"W 58.08 FEET;

THENCE ALONG A 25 FOOT RADIUS CURVE TO THE RIGHT A DISTANCE OF 10.91 FEET, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF N00°03'36"E 10.83 FEET;

THENCE N12°34'00"E 36.29 FEET;

THENCE N84°45'22"W 64.64 FEET;

THENCE S10°28'00"W 39.38 FEET;

THENCE S77°17'02"W 32.64 FEET;

THENCE N10°29'00"E 58.19 FEET;

THENCE N83°55'23"W 54.04 FEET;

THENCE N41°25'23"W 23.36 FEET;

THENCE S38°53'34"W 16.63 FEET;

THENCE N51°06'26"W 30.00 FEET;

THENCE N38°53'34"E 21.75 FEET;

THENCE N41°25'23"W 84.33 FEET;

THENCE S86°47'52"W 123.89 FEET;

THENCE N03°12'08"W 22.14 FEET;

THENCE N85°27°10"E 33.59 FEET;

THENCE N03°53'13"W 7.07 FEET;

THENCE N86°47'52"E 78.82 FEET;

THENCE N00°37'06"W 245.95 FEET;

THENCE S86°32'03"W 119.80 FEET;

THENCE N03°27'57"W 21.52 FEET;

THENCE N86°32'03"E 39.84 FEET;

THENCE N03°48'31"W 8.48 FEET;

THENCE N86°32'03"E 81.50 FEET;

THENCE N00°37'06"W 55.71 FEET;

THENCE S89°22'54"W 7.12 FEET;

THENCE N00°37'06"W 30.00 FEET;

THENCE N89°22'54"E 7.12 FEET;

THENCE N00°37'06"W 129.56 FEET;

THENCE S86°38'50"W 103.62 FEET;

THENCE ALONG A 25 FOOT RADIUS CURVE TO THE RIGHT A DISTANCE OF 37.36 FEET, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF N50°32'26"W 33.98 FEET;

THENCE N07°43'43"W 22.06 FEET;

THENCE N82°16'17"E 23.53 FEET;

THENCE S03°05'00"E 21.88 FEET;

THENCE N86°38'50"E 26.49 FEET;

THENCE N03°53'42"W 5.00 FEET;

THENCE N86°38'50"E 81.86 FEET;

THENCE N00°37'06"W 218.37 FEET;

THENCE N09°34'07"W 189.89 FEET;

THENCE S88°29'15"W 91.73 FEET;

THENCE N01°30'45"W 18.81 FEET;

THENCE N72°25'07"E 40.44 FEET;

THENCE N88°29'15"E 48.62 FEET;

THENCE N09°34'07"W 362.69 FEET;

THENCE S86°09'07"W 20.56 FEET;

THENCE N03°50'53"W 30.00 FEET;

THENCE N86°09'07"E 20.50 FEET;

THENCE N03°55'06"W 223.23 FEET;

THENCE S85°41'37"W 147.66 FEET;

THENCE N02°07'37"W 30.02 FEET;

THENCE N85°41'37"E 146.72 FEET;

THENCE N03°55'06"W 471.76 FEET;

THENCE S86°04'54"W 106.28 FEET;

THENCE S71°53'02"W 114.42 FEET;

THENCE N18°06'58"W 30.00 FEET;

THENCE N71°53'02"E 115.04 FEET;

THENCE ALONG A 25 FOOT RADIUS CURVE TO THE RIGHT A DISTANCE OF 6.20 FEET, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF N78°58'58"E 6.18 FEET;

THENCE N86°04'54"E 106.90 FEET;

THENCE N03°55'06"W 4.74 FEET;

THENCE N85°03'04"E 266.05 FEET;