

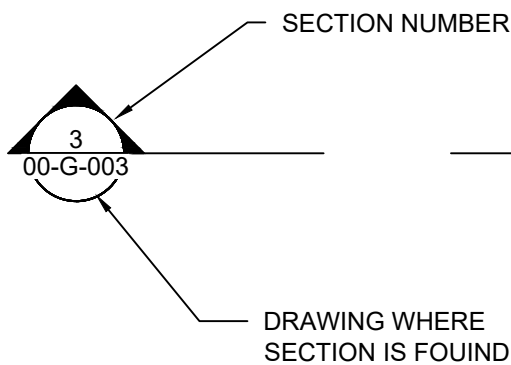
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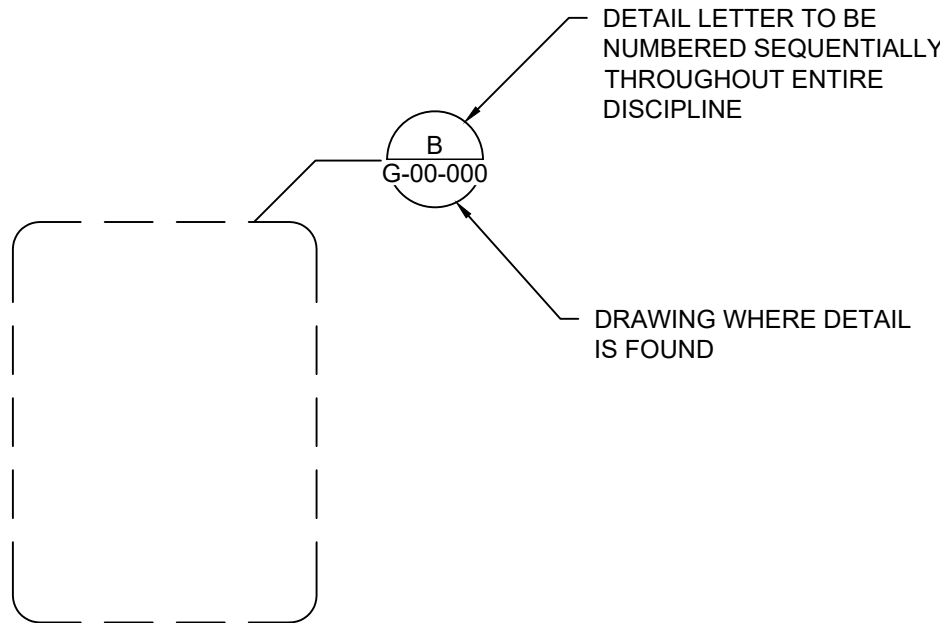
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2. SECTION CUTS



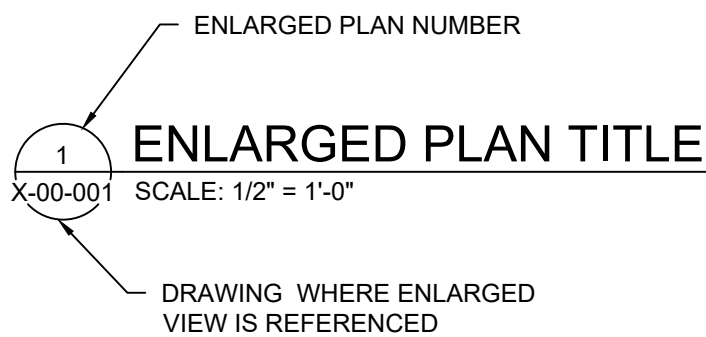
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A: BY CALLOUT:

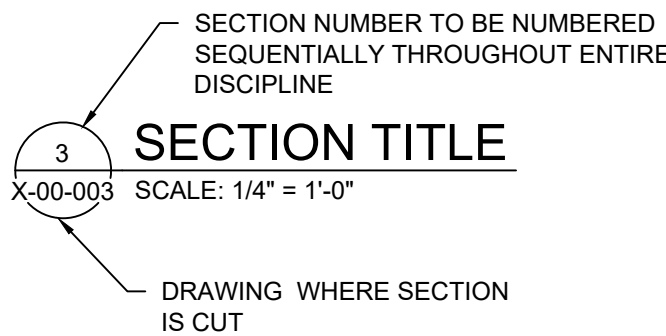


B: BY NOTE: "SEE DETAIL B/D-01-105"
B IS DETAIL REFERENCE LETTER
D-01-105 IS DRAWING WHERE DETAIL IS SHOWN

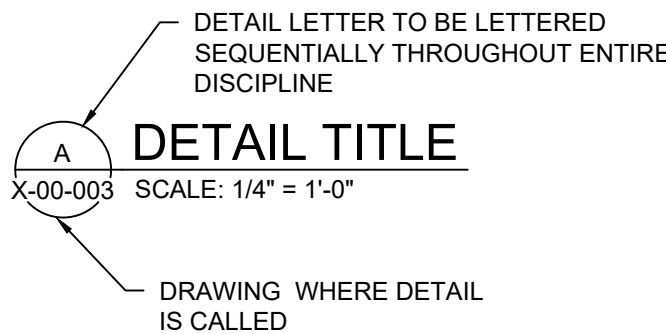
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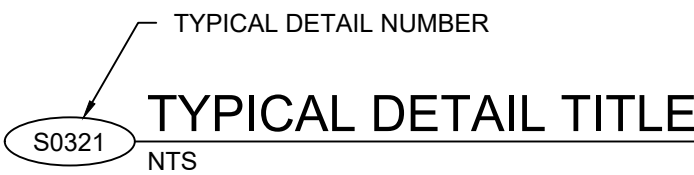
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6. DETAIL TITLES:

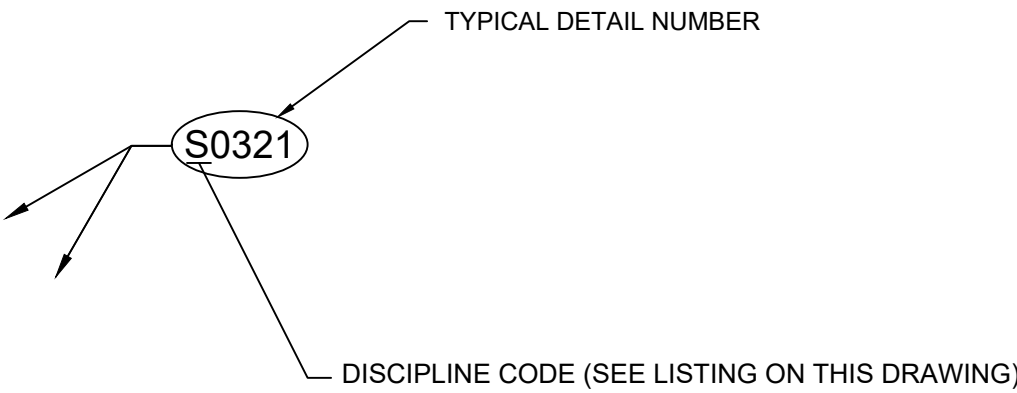


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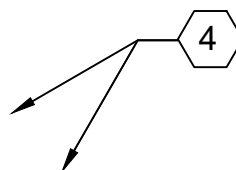


CROSS REFERENCING SYSTEM (CONTINUED)

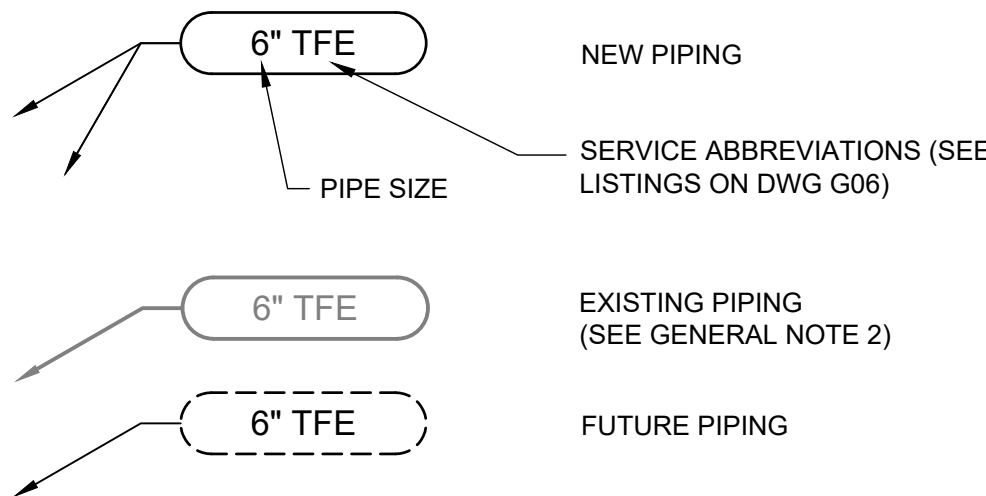
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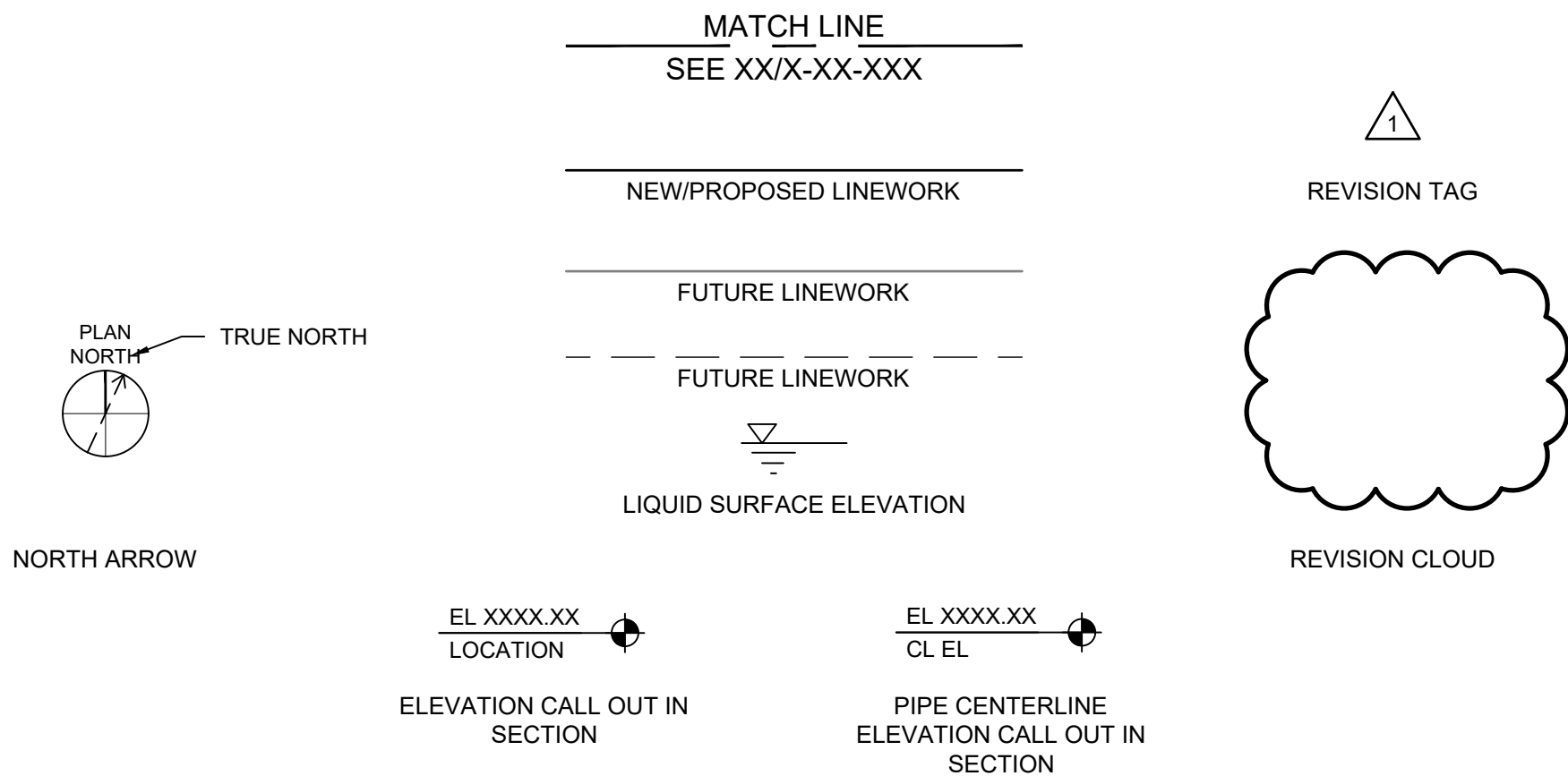
7. KEYNOTES:



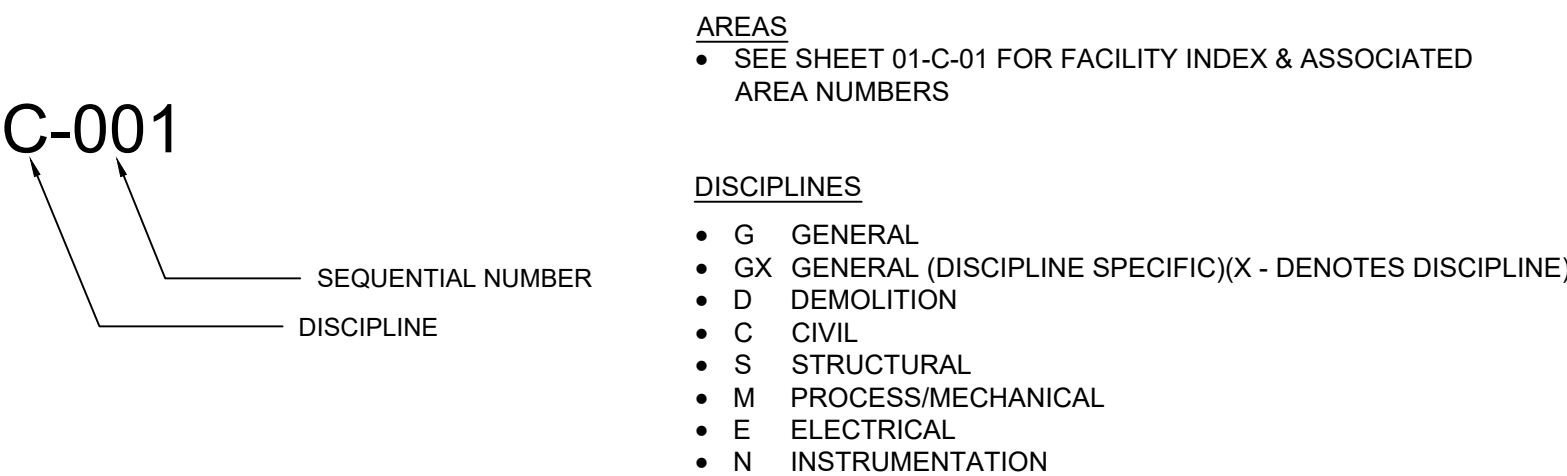
PIPING IDENTIFICATION SYSTEM



MISCELLANEOUS



DRAWING NUMBERING SYSTEM



GENERAL NOTES

- THE NOTE IN THE TITLEBLOCK OF THIS DRAWING WHICH READS "TWO INCHES AT FULL SCALE" APPEARS ON DRAWINGS FOR IDENTIFICATION OF SCALE DISTORTIONS ON HALF SIZE DRAWINGS AND DRAWING REPRODUCTIONS. IT SHALL MEAN THAT THE DRAWING IS FULL SIZE AND THE DRAWING SCALES ACCURATE WHEN THE LENGTH OF THIS LINE IS TWO INCHES. IF THE LENGTH IS OTHER THAN TWO INCHES, DRAWING SCALES MUST BE ADJUSTED ACCORDINGLY.
- EXISTING PIPING IS DESIGNATED BY SERVICE RATHER THAN MATERIAL TYPE. MATERIAL TYPES, IF KNOWN, APPEAR OUTSIDE THE PIPING CALLOUT BUBBLE, AND MAY NOT BE THE SAME MATERIAL TYPES SPECIFIED FOR NEW PIPING.
- ABBREVIATIONS USED IN THIS CONTRACT DOCUMENT CONFORM TO ANSI Y1.1, UNLESS NOTED OTHERWISE ON DRAWINGS. SEE SPEC. SECTION 01071 FOR ADDITIONAL ABBREVIATIONS.
- ALL STANDARD DETAILS APPLY TO ALL THE CONTRACTORS WORK WHETHER SPECIFICALLY REFERENCED OR NOT.
- SEE FRONT END SHEETS FOR EACH DISCIPLINES STANDARD SYMBOLS, ETC.
- SEE ADDITIONAL GENERAL NOTES THROUGHOUT DRAWING SET.



SALT LAKE CITY, UTAH

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

60% 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

G-002.DWG

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

GENERAL

STANDARD
SYMBOLS

DRAWING NUMBER

G-002

XX SHEET NUMBER OF XX

A horizontal timeline divided into six numbered segments (1 to 6) by vertical lines.

CIVIL SYMBOLS		GENERAL CIVIL NOTES				
D		WATERLINE	GENERAL NOTES	SITE GRADING NOTES	SITE PIPING NOTES (CONT'D.)	SITE PIPING NOTES (CONT'D.)
		EXISTING WATERLINE				
		OVERHEAD POWER LINE				
		EXISTING OVERHEAD POWER LINE				
		EXISTING UNDERGROUND TELEPHONE LINE				
		EXISTING GAS LINE				
		FENCE				
		EXISTING FENCE				
C		CONTOUR LINE				
		EXISTING CONTOUR LINE				
		GATE VALVE				
		EXISTING GATE VALVE				
		WELL				
		EXISTING WELL				
		POWER POLE				
		EXISTING POWER POLE				
		EXISTING GUY WIRE				
		REDUCER				
		EXISTING REDUCER				
		FLUSH VALVE				
		AIR RELEASE VALVE				
		SURVEY MARKING				
B		WATER LINE CASING				
A						

1

2

3

4

5

6

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.

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.

3. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE LIMIT OF WORK SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.

4. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, AND EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.

5. THE CONTRACTOR SHALL GRADE PROPOSED SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS.

6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL DEVICES.

7. THE CONTRACTOR SHALL NOTIFY NTUA AT LEAST 72 HOURS PRIOR TO EXCAVATING NEAR ANY UTILITIES.

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.

9. ALL EXISTING UTILITY INFORMATION WAS OBTAINED FROM NTUA AND FIELD SURVEY. THIS INFORMATION MAY NOT BE COMPLETELY ACCURATE OR INDICATE ALL OF THE UTILITIES, UNDERGROUND PIPING, OR BURIED STRUCTURES PRESENT.

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.

11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

12. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING ANY NECESSARY COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS.

1. STRIPPING OF TOPSOIL SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 31-23-00 EARTHWORK.

2. ALL ROAD AND PARKING AREA SURFACES SHALL PITCH 2 PERCENT MINIMUM UNLESS OTHERWISE NOTED.

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.

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.

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 NAVAJO NATION REGULATIONS.

6. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE CONSTRUCTION MANAGER.

7. CONTRACTOR TO REGRADE, AND RESEED ALL DISTURBED AREAS PER CONSTRUCTION MANAGER AND PER SPEC 31-25-00.

1. ALL PIPE LINES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS INDICATED ON THE DRAWINGS. NO CRESTS IN PIPING WILL BE PERMITTED. ALL HORIZONTAL AND VERTICAL BENDS IN PRESSURIZED LINES SHALL BE RESTRAINED JOINTS. PROVIDE ALL BENDS (HORIZONTAL AND VERTICAL) AS REQUIRED TO MEET THE GRADES AND ALIGNMENT INDICATED ON THE DRAWINGS.

2. ALL BURIED CONNECTIONS TO STRUCTURES SHALL HAVE SLEEVE TYPE (SOLID SLEEVE) FLEXIBLE CONNECTIONS APPROXIMATELY 4 FEET FROM THE STRUCTURES. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED.

3. OPENINGS FOR PIPE IN PRECAST MANHOLE BASES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING MANHOLE MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE CONSTRUCTION MANAGER.

4. A MINIMUM OF 48-INCHES OF COVER REQUIRED ON PIPES UNLESS NOTED OTHERWISE.

5. REFER TO SPECIFICATION SECTION 31-23-00 AND CIVIL DETAILS FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.

6. COMPACTION TESTS WILL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 31-23-00, EARTHWORK. ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.

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.

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.

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.

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.

11. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE THROUGHOUT THE PROJECT, UNLESS OTHERWISE NOTED.

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.

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.

14. SURVEY COORDINATES AND ELEVATIONS SHALL BE PROVIDED FOR ALL BURIED PIPING BENDS AND VALVES ON AS-BUILT DRAWINGS.

15. PROVIDE VALVE BOXES FOR ALL BURIED VALVES.

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.

17. UNLESS NOTED OTHERWISE ALL UNDERGROUND PIPING SHALL BE INSTALLED PER TRENCH DETAIL C/C-003

18. ASPHALT SURFACES DISTURBED DURING UNDERGROUND PIPING INSTALLATION, DUCT BANK INSTALLATION AND OTHER ACTIVITIES SHALL BE REPAIRED.

7. SURVEY IS BASED ON NAD 83 AND THE UTAH STATE PLANE SOUTH ZONE MEASURE IN INTERNATIONAL FEET. SURVEY ELEVATIONS ARE BASED ON NAVD 88 EXPRESSED IN INTERNATIONAL FEET. SHOWN DISTANCES AND COORDINATES AT GROUND VALUES NOT GRID VALUES. TO OBTAIN SRC GRID VALUES MULTIPLY THE DISTANCE AND COORDINATE SHOWN BY A COMBINED FACTOR OF 0.99960803.

PERMITS AND NOTIFICATION NOTES

1. THE CONTRACTOR SHALL COMPLETE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT. SEE SPECIFICATION SECTION 01-57-13, 01561

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.

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.

ADD THIS INFORMATION TO THIS SHEET VERBATUM AS I RECEIVED IT FROM THE SURVEYOR.

Brown AND Caldwell

SALT LAKE CITY, UTAH

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60% SUBMITTAL

NAVAJO TRIBAL UTILITY AUTHORITY

UTILITIES FOR THE NAVAJO NATION

WESTWATER WATER SYSTEM

FILENAME
C-001.DWG

BC PROJECT NUMBER
158815

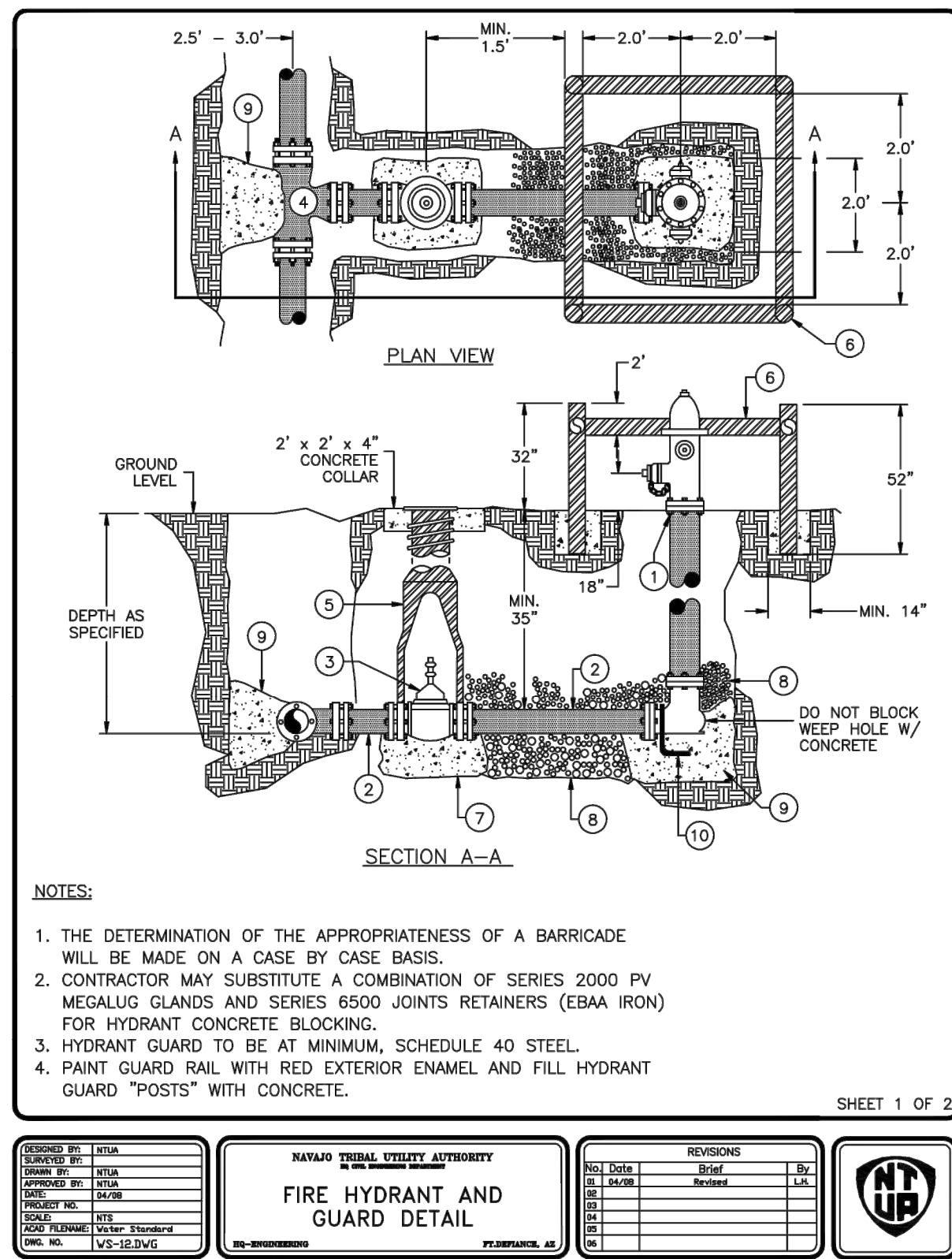
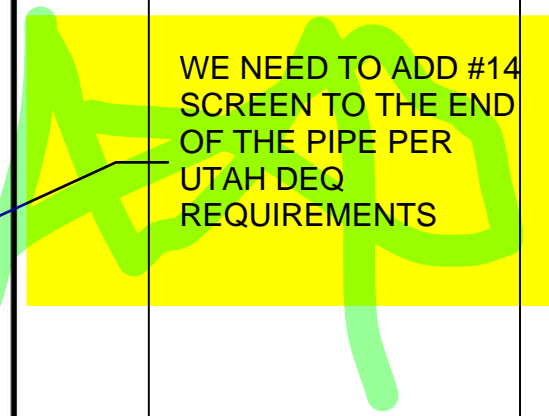
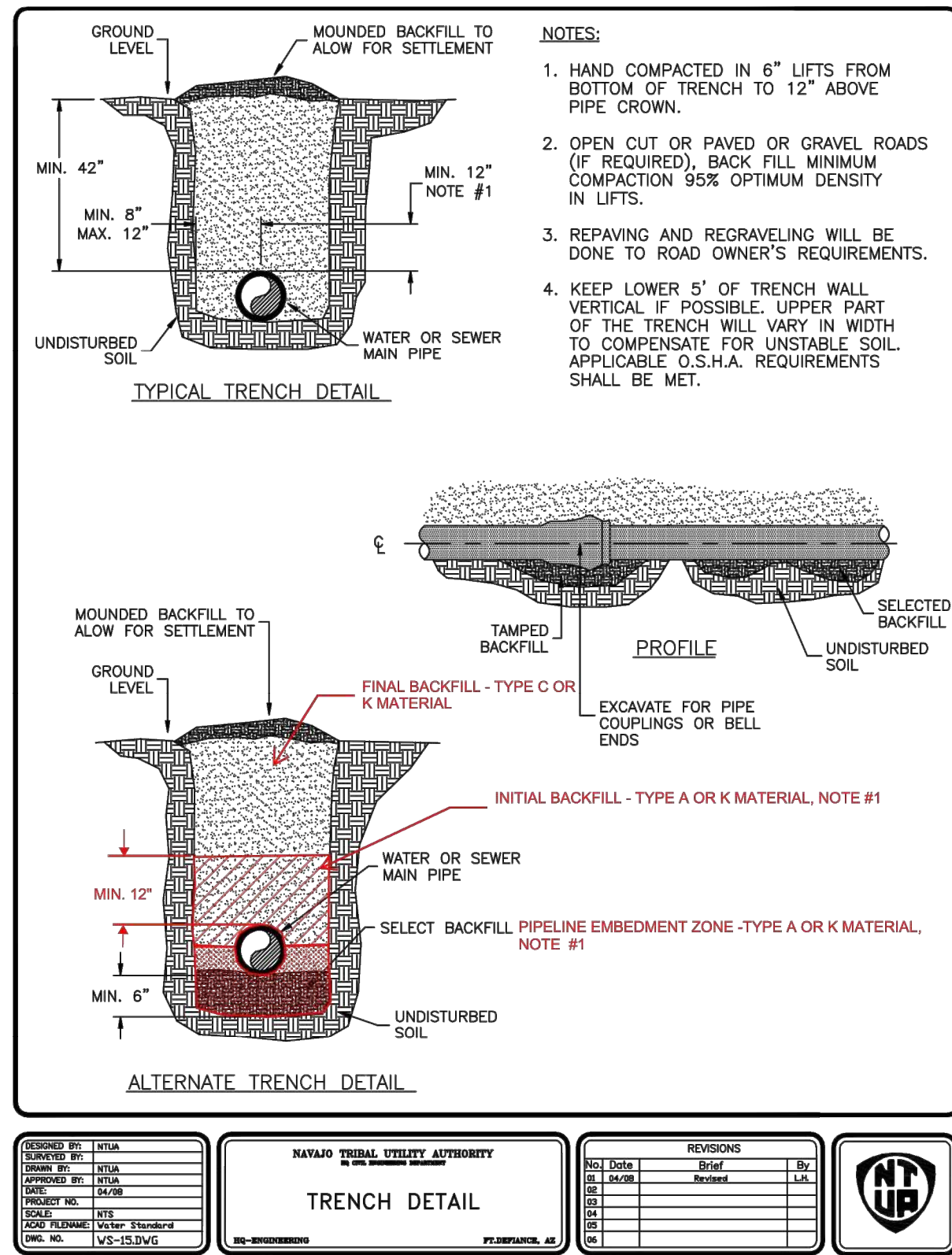
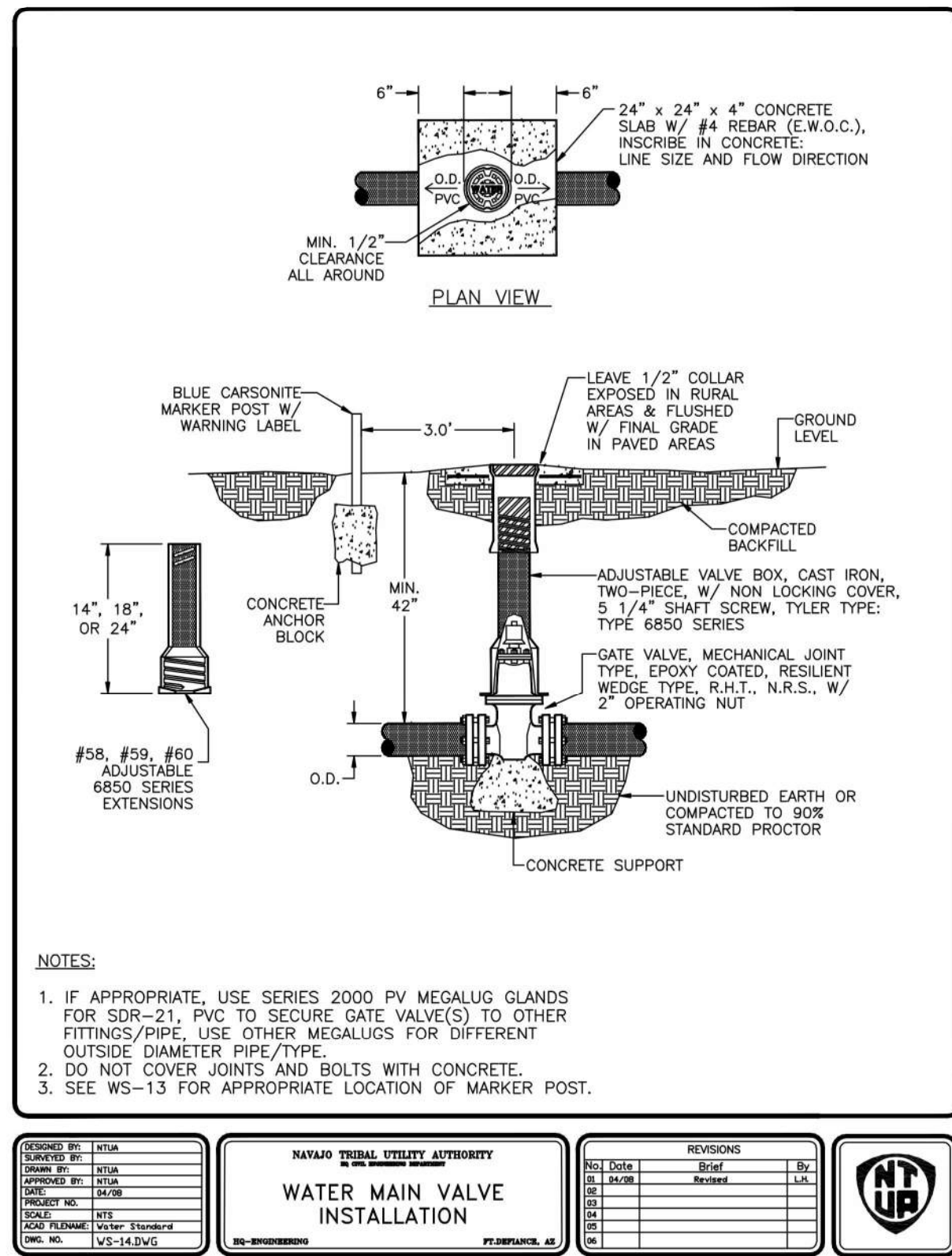
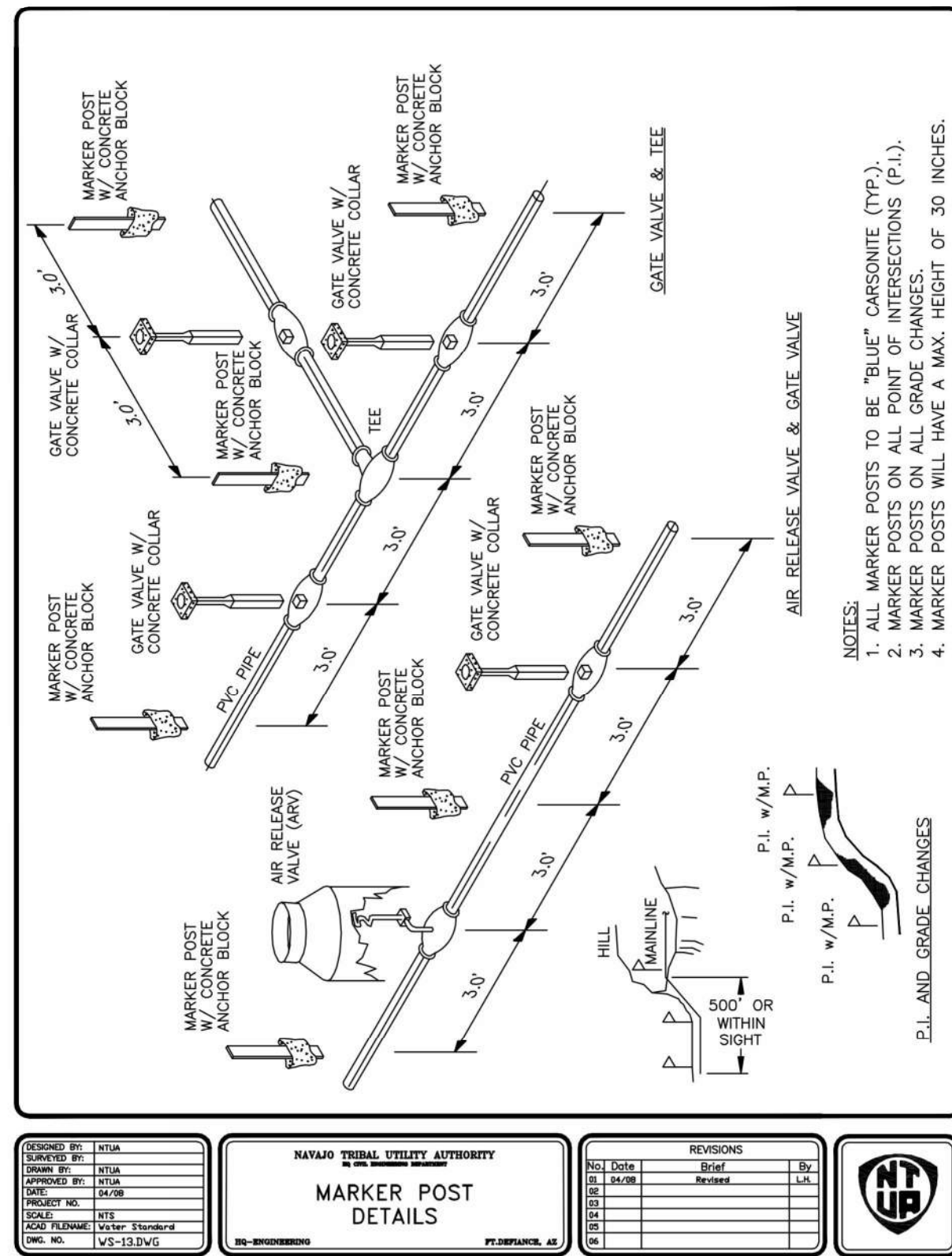
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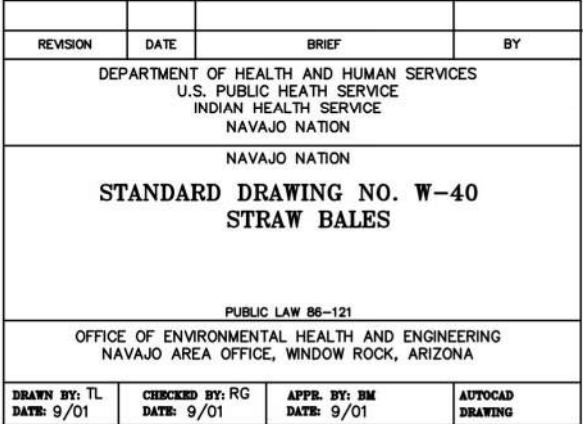
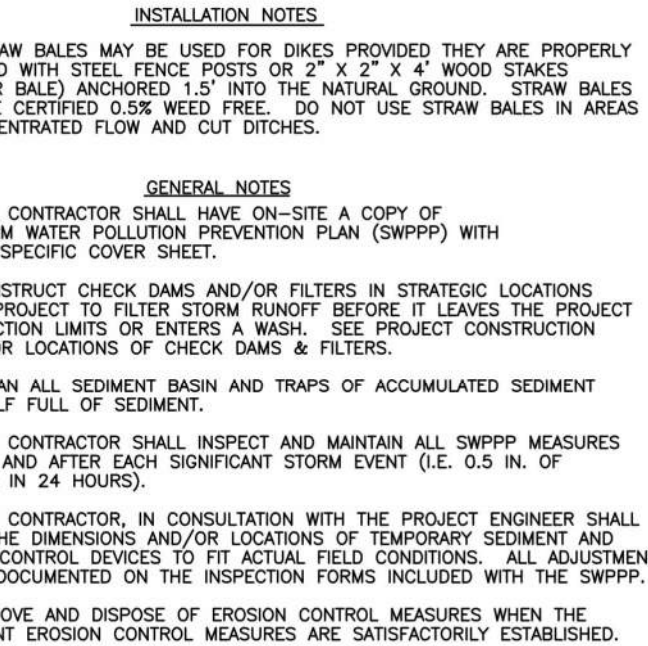
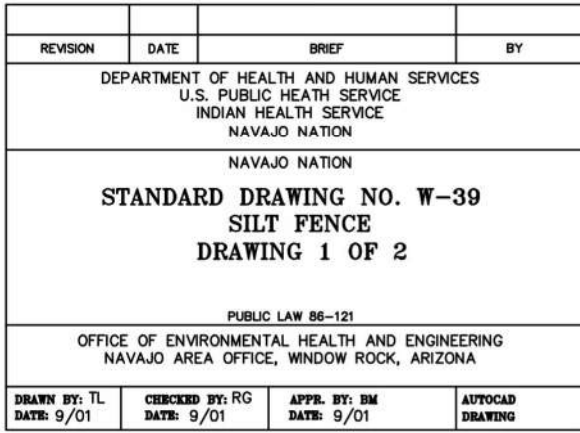
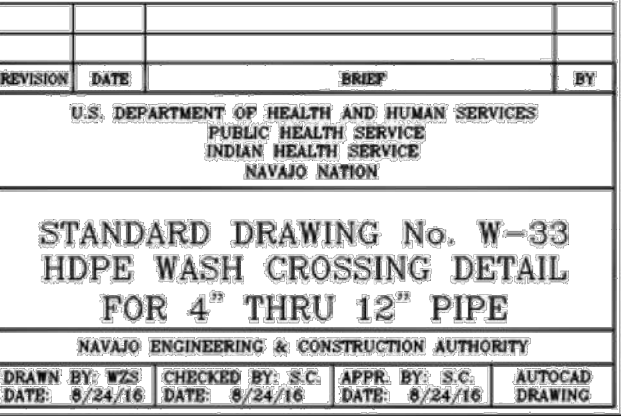
CIVIL

GENERAL CIVIL
NOTES AND
SYMBOLS

DRAWING NUMBER
C-001

XX SHEET NUMBER OF XX

[illegible]



SALT LAKE CITY, UTAH

60% SUBMITTAL



WESTWATER WATER SYSTEM DESIGN

REVISIONS

[illegible]

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED: ---

CHECKED: ---

FILENAME

C-005.DWG

BC PROJECT NUMBER

5
ST NUM

CLIENT PROJECT NUMBER

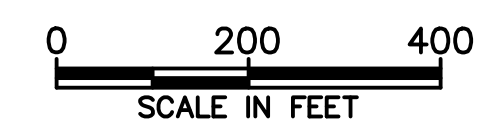
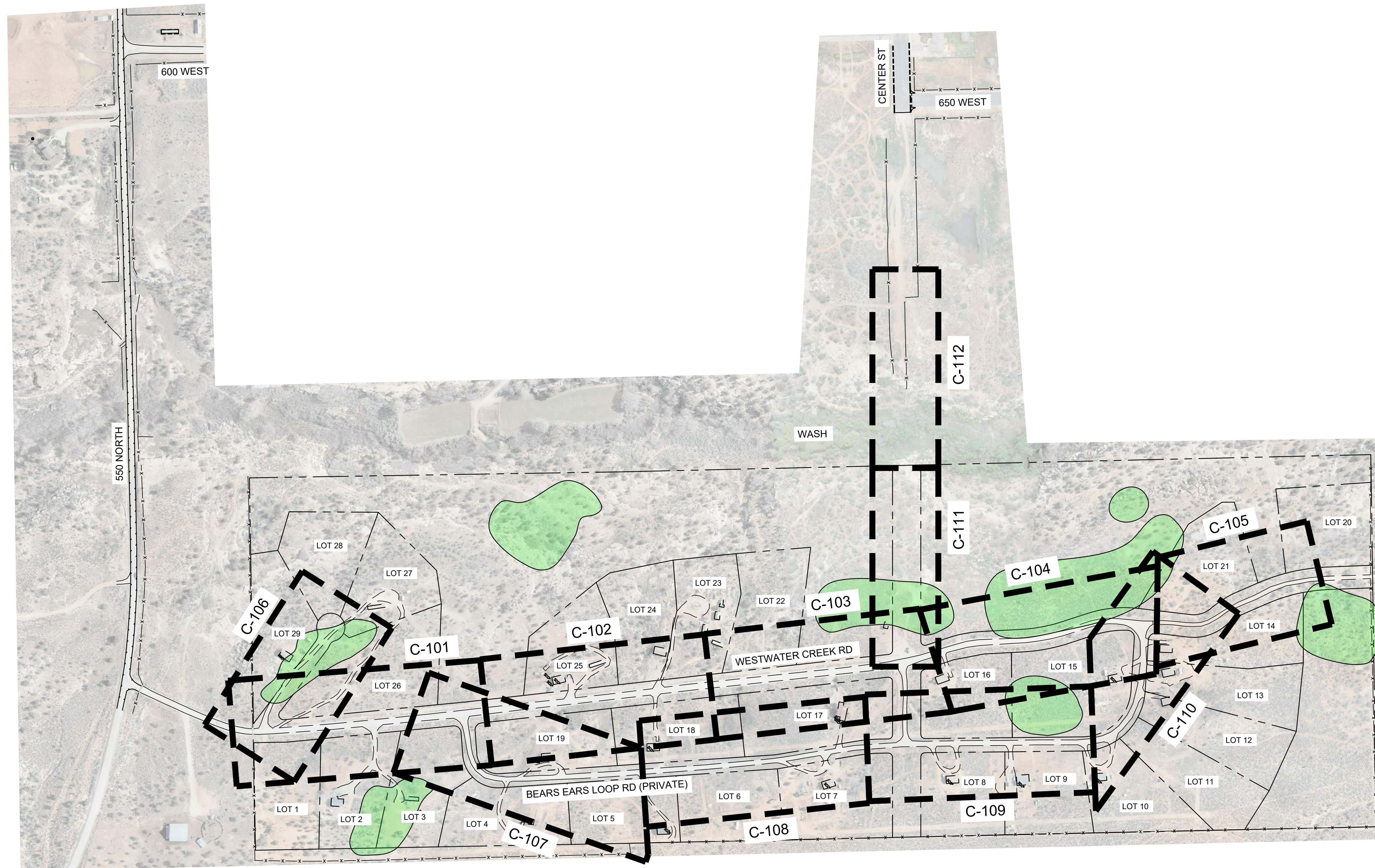
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IHS DETAILS

DRAWING NUMBER

C-005

XX	SHEET NUMBER	XX
	OF	



SALT LAKE CITY, UTAH

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FOR CONSTRUCTION
PURPOSES UNLESS IT BEARS
THE SEAL OF A DULY
REGISTERED PROFESSIONAL

60% 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-100.DWG

BC PROJECT NUMBER

58815

CLIENT PROJECT NUMBER

CIVIL

KEY MAP

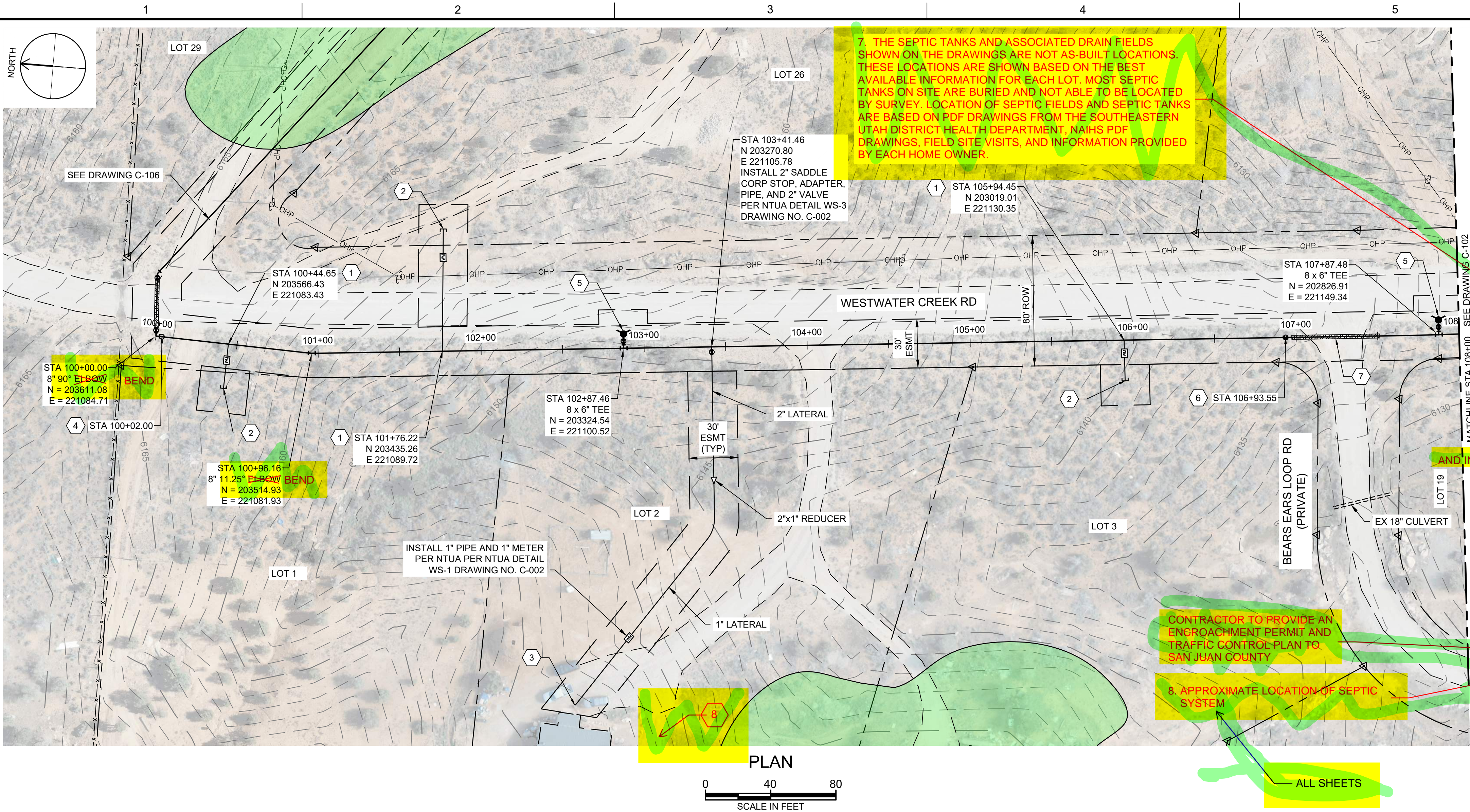
DRAWING NUMBER

C-100

XX

SHEET NUMBER
OF

OF



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.

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 SALVAGE EXISTING CISTERN FOR REUSE BY OTHERS AND CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE FILL MATERIAL FOR REMOVED CISTERN. COMPACT TO PROVIDE 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.
- 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

ADD SEPTIC TANK AND LEACH FIELD DRAWINGS FROM CAD FILE FROM CORWIN CALLED "Center Street.dwg" ON ALL PLAN AND PROFILE DRAWINGS.

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SALT LAKE CITY, UTAH

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60% 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-101.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

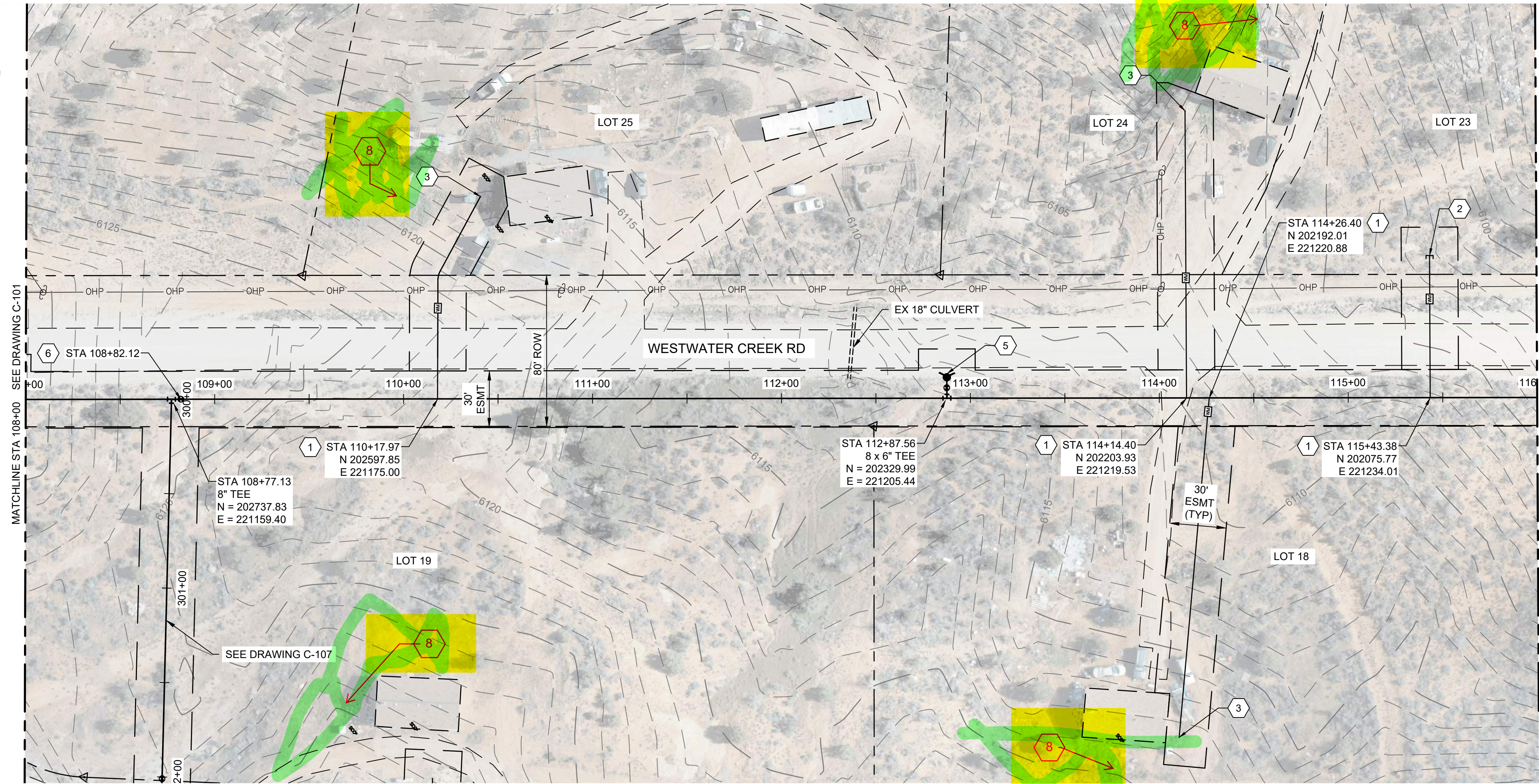
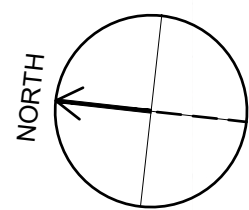
PLAN AND PROFILE
STA 100+00 TO STA
108+00

DRAWING NUMBER

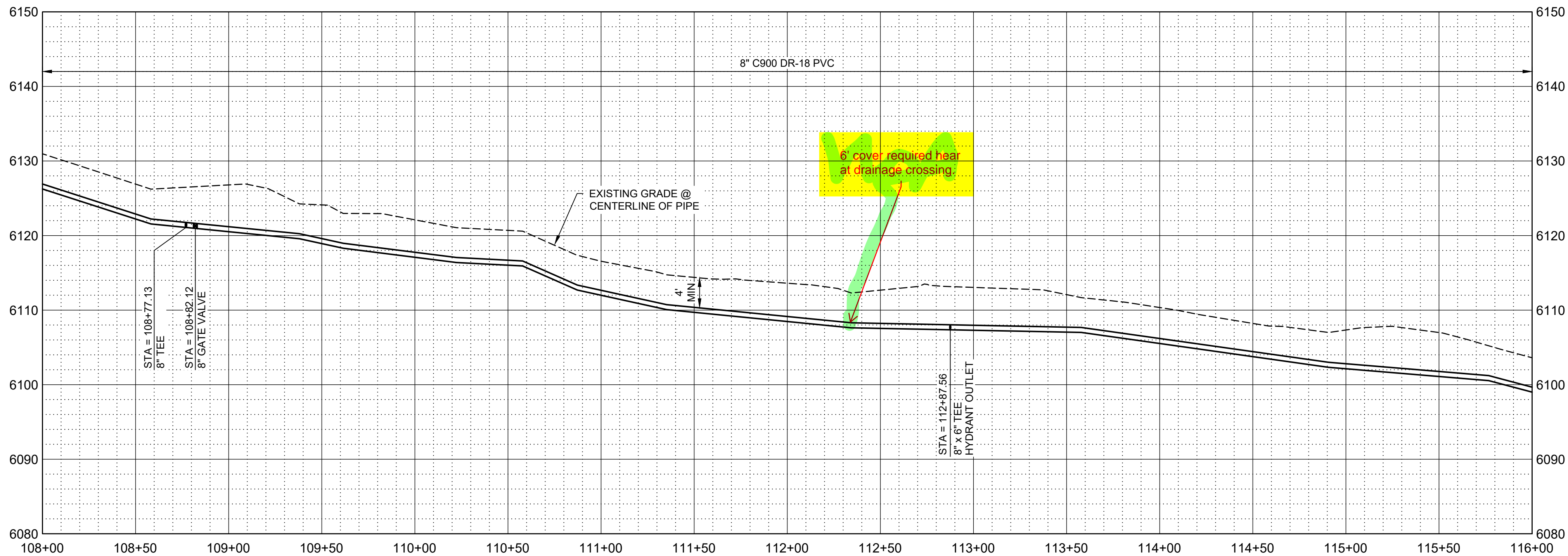
C-101

XX SHEET NUMBER OF XX

Path: C:\BCPMD\284\193 FILENAME: C-102.DWG PLOT DATE: 8/17/2023 11:26 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.
- 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.

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 SALVAGE EXISTING CISTERN FOR REUSE BY OTHERS AND CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE FILL MATERIAL FOR REMOVED CISTERN. PROVIDE 95% COMPACTION.
- INSTALL GAV 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.
- 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



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60% 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-102.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

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

DRAWING NUMBER

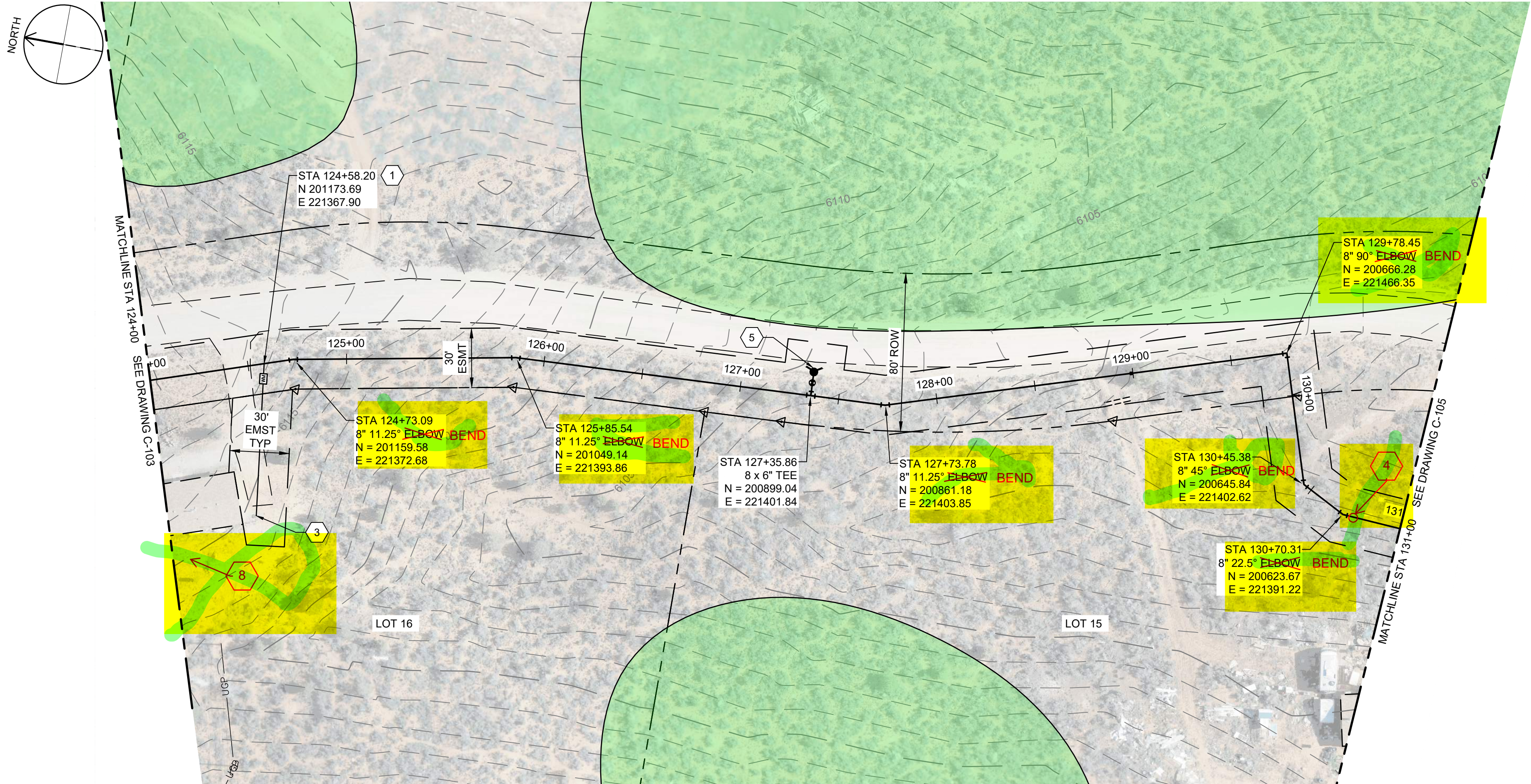
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XX SHEET NUMBER OF XX

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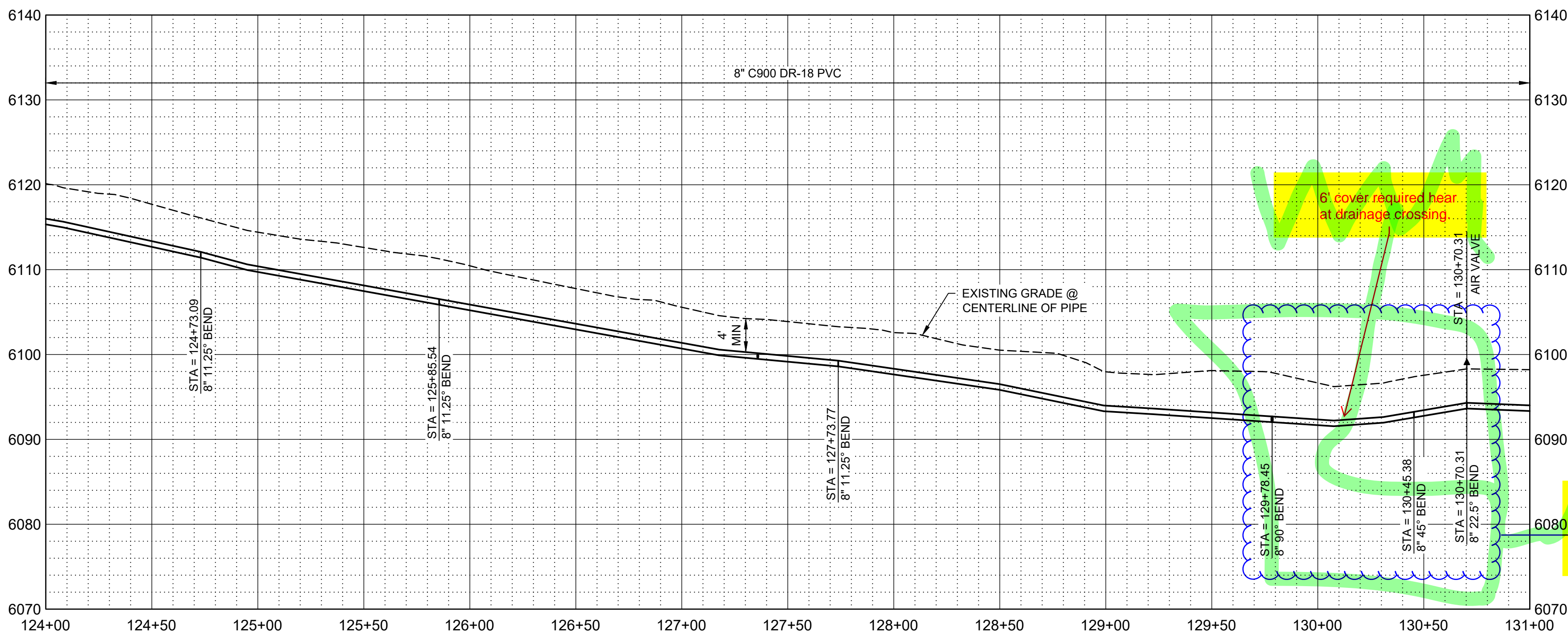
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1-800-662-4111

Path: C:\BCP\W\0284\193 FILENAME: C-104.DWG PLOT DATE: 8/17/2023 11:28 AM CAD USER: DAVID DAVIDSE



PLAN

0 40 80
SCALE IN FEET



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.
- ALL PIPING TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR OTHERWISE SHOWN IN DETAILS.

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 SALVAGE EXISTING CISTERN FOR REUSE BY OTHERS AND CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE FILL MATERIAL FOR REMOVED CISTERN. PROVIDE 95% COMPACTION.~~
- 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.~~
- ~~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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60% 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-104.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

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

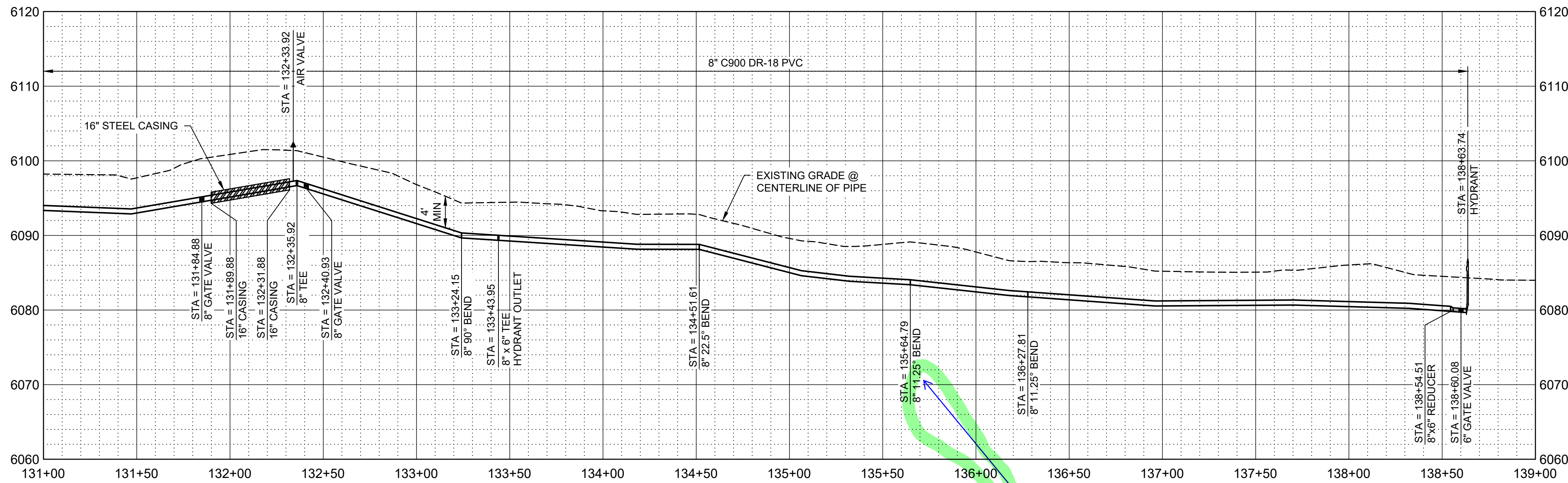
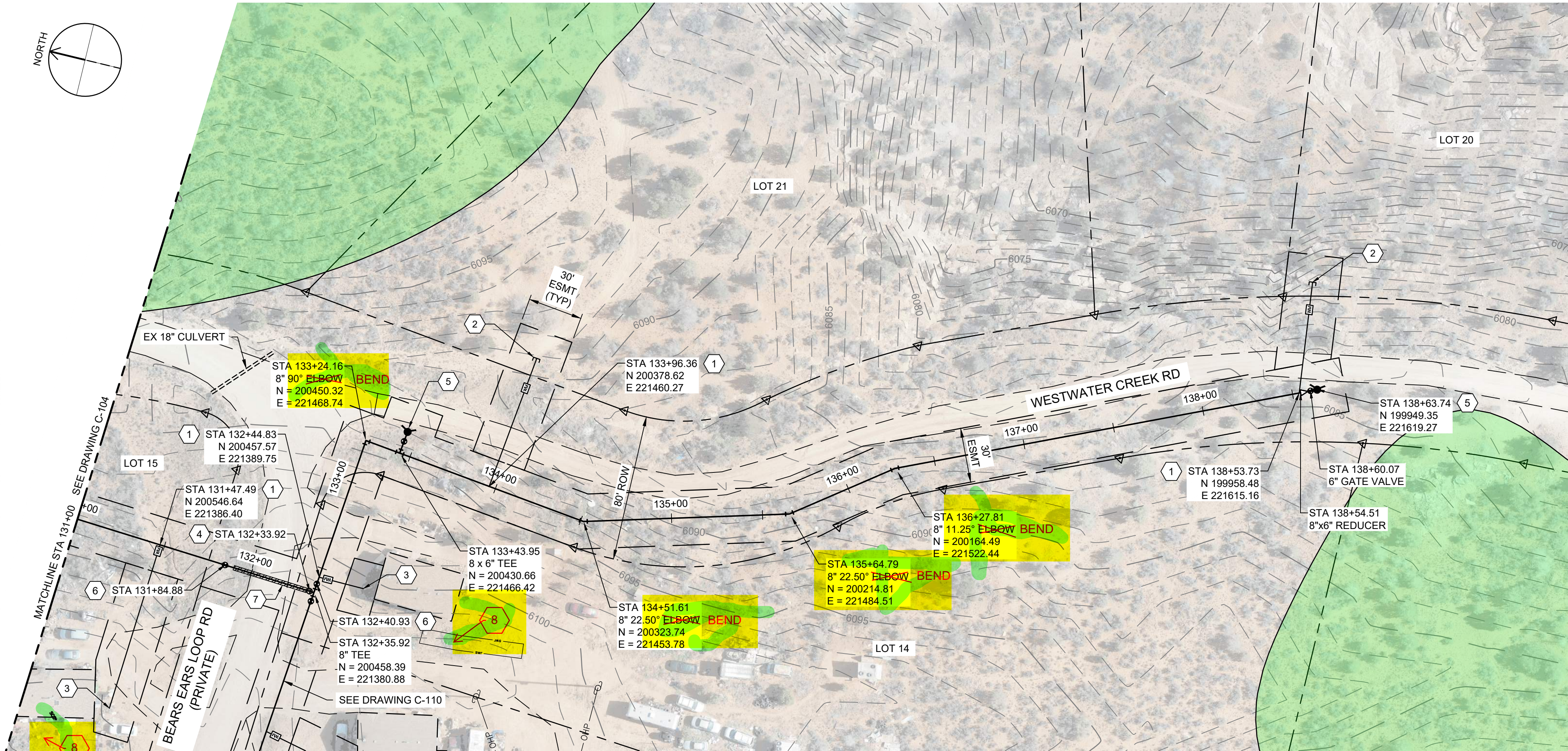
DRAWING NUMBER

C-104

XX SHEET NUMBER OF XX

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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.
- 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.

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 SALVAGE EXISTING CISTERN FOR REUSE BY OTHERS AND CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE FILL MATERIAL FOR REMOVED CISTERN. PROVIDE 95% COMPACTION.
- 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.
- 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



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60% 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-105.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

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

DRAWING NUMBER

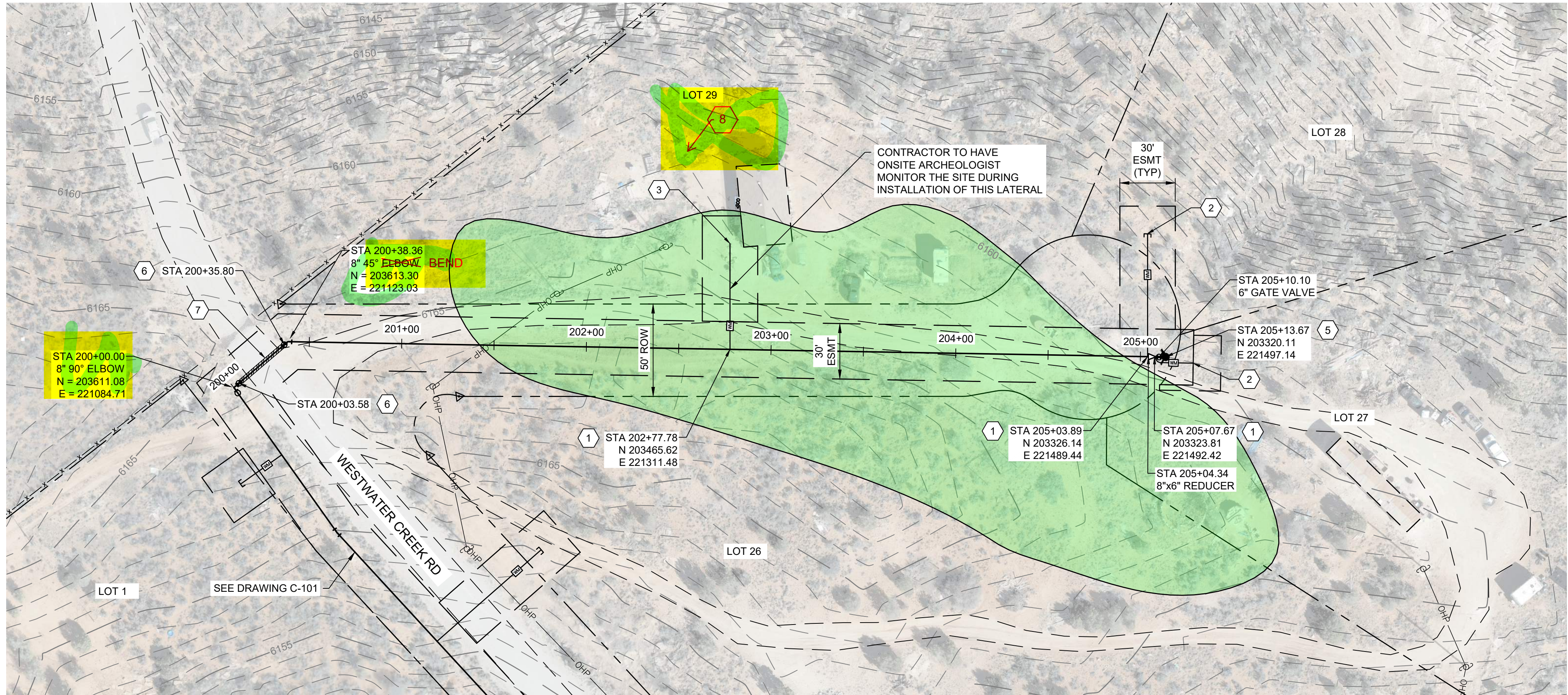
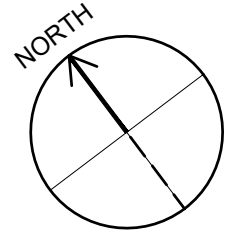
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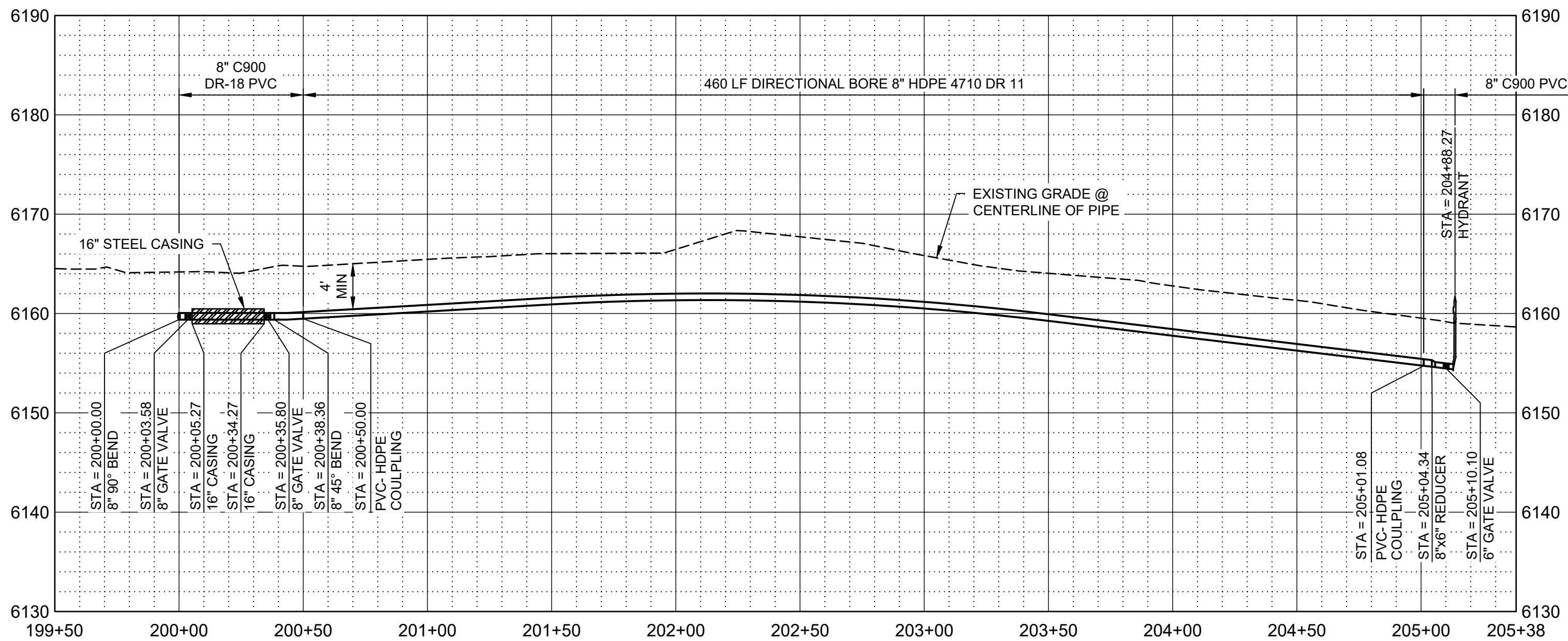
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PLAN



PROFILE

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

GENERAL NOTES

- ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION 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.

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 SALVAGE EXISTING CISTERN FOR REUSE BY OTHERS AND CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE FILL MATERIAL FOR REMOVED CISTERN. PROVIDE 95% COMPACTION.
- 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.
- 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



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60% 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-106.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

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

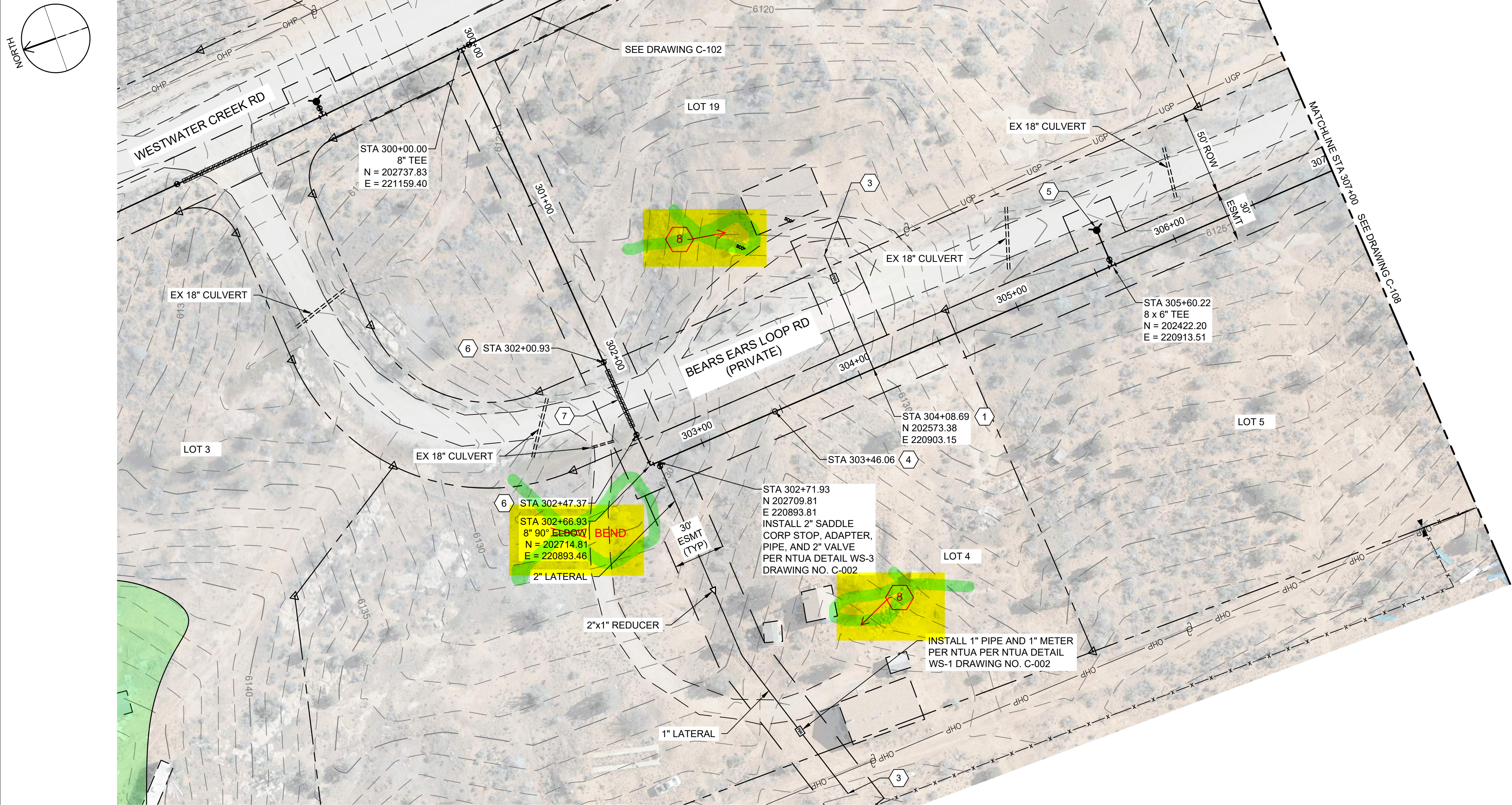
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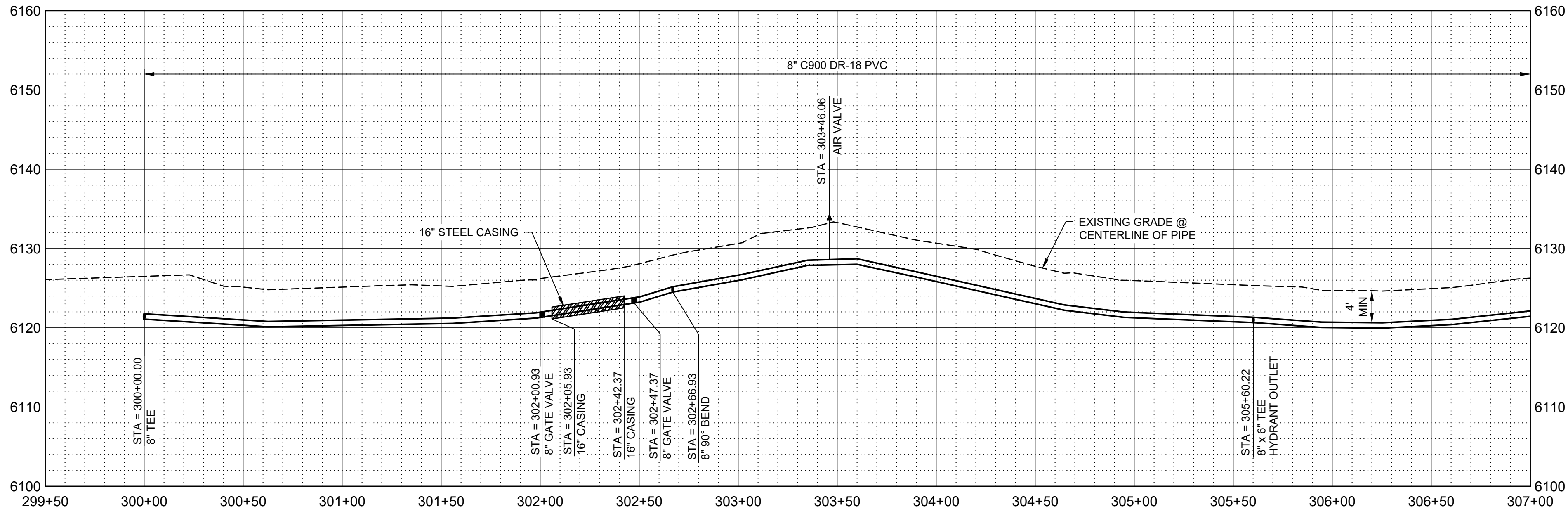
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PLAN



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 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.

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 SALVAGE EXISTING CISTERN FOR REUSE BY OTHERS AND CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE FILL MATERIAL FOR REMOVED CISTERN. PROVIDE 95% COMPACTION.
- 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.
- 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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60% 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

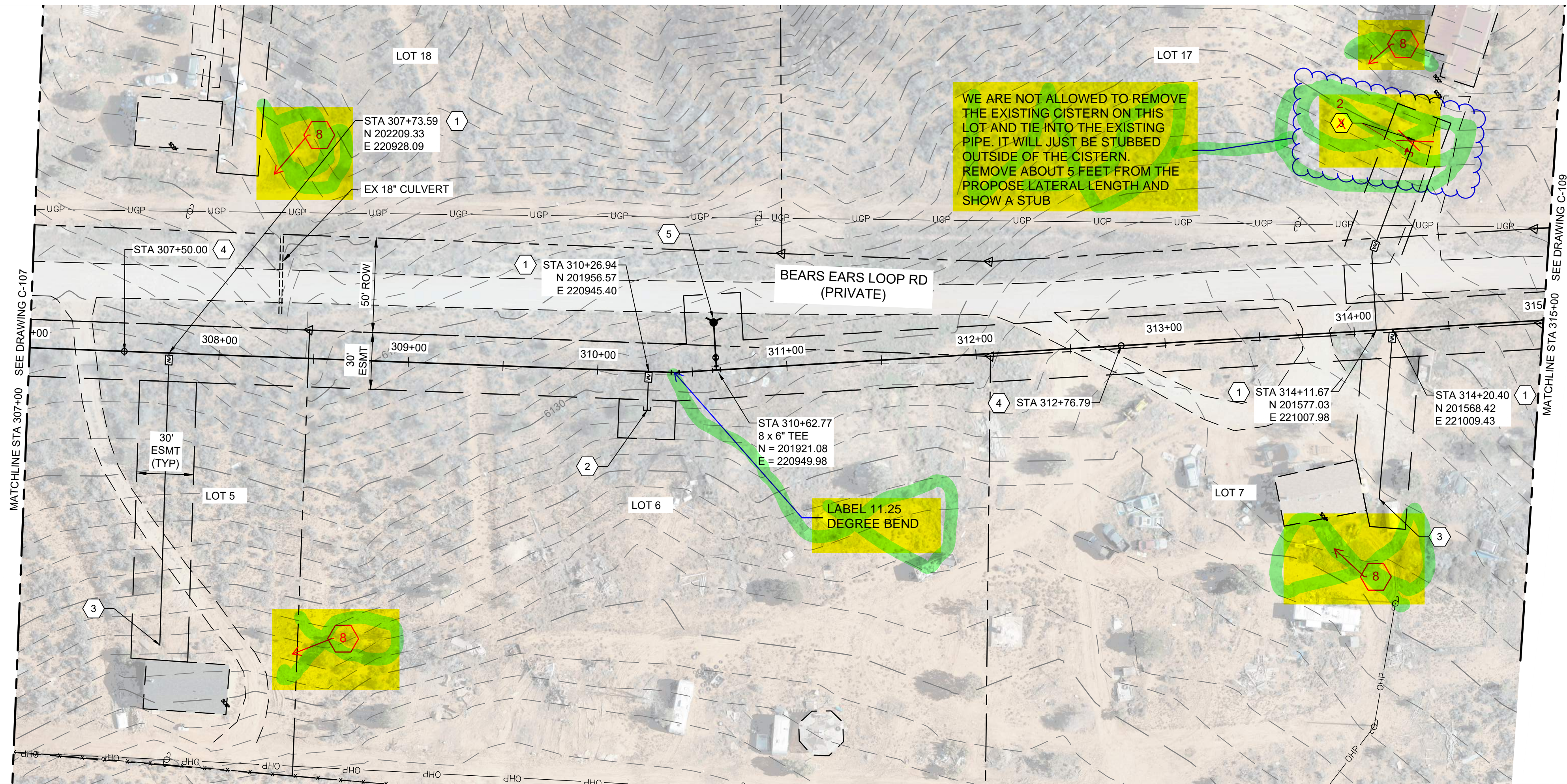
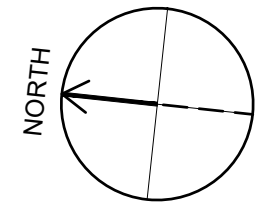
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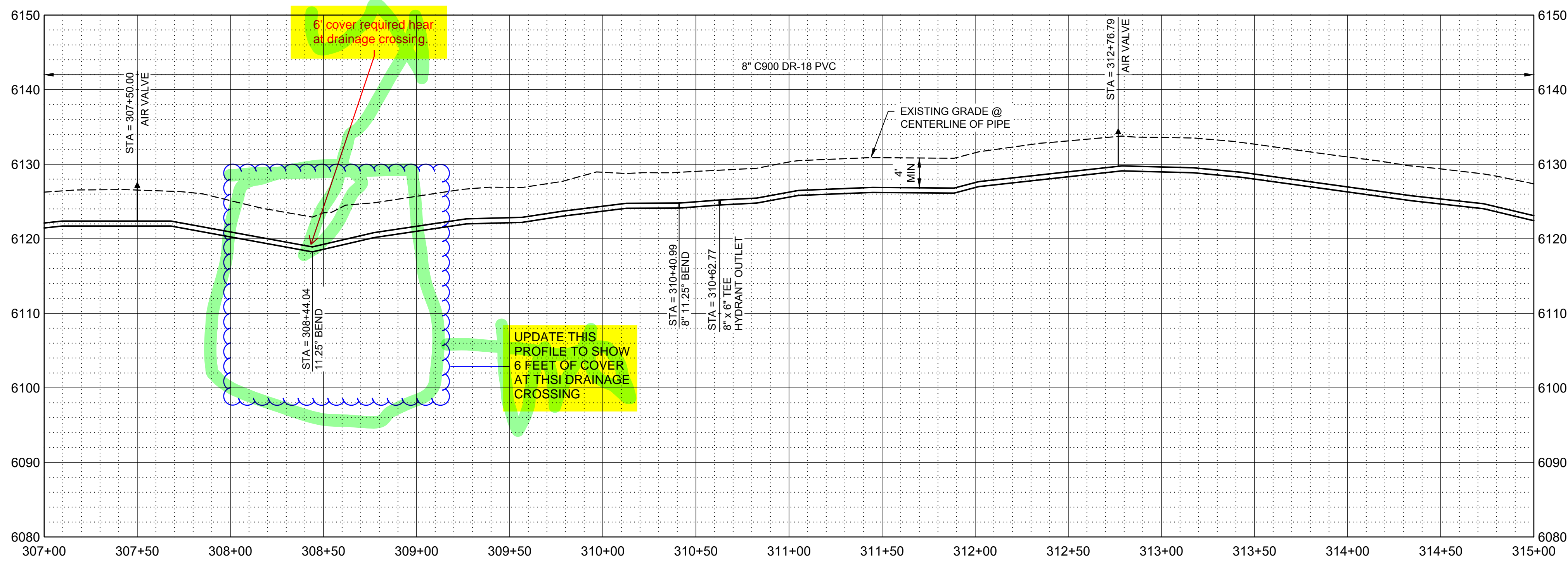
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PLAN



PROFILE

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

GENERAL NOTES

1. ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
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4. CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
5. DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.
6. ALL PIPING TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR OTHERWISE SHOWN IN DETAILS.

KEY NOTES

1. INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
2. PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.
3. DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND SALVAGE EXISTING CISTERN FOR REUSE BY OTHERS AND CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE FILL MATERIAL FOR REMOVED CISTERN. PROVIDE 95% COMPACTION.
4. INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.
5. INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
6. ~~INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.~~
7. ~~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.~~
8. ~~INSTALL CONCRETE ANCHOR BLOCK PER DETAIL W-33 DRAWING NO. C-005.~~
9. ~~DIRECTIONAL BORE HDPE WASH CROSSING, SEE DETAIL W-33 DRAWING NO. C-005.~~

LEGEND

 ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH

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60% 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-108.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

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

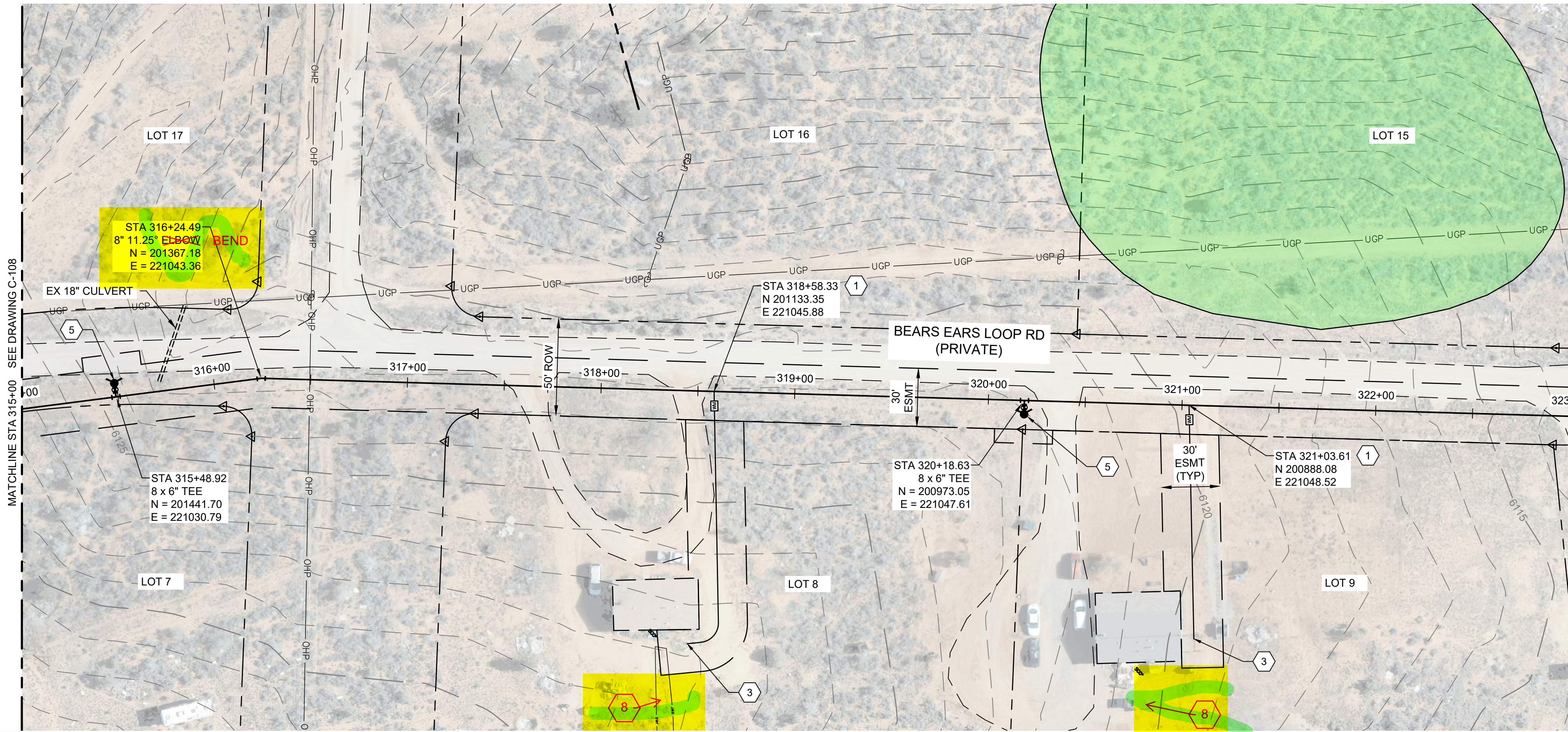
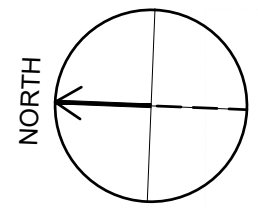
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C-108

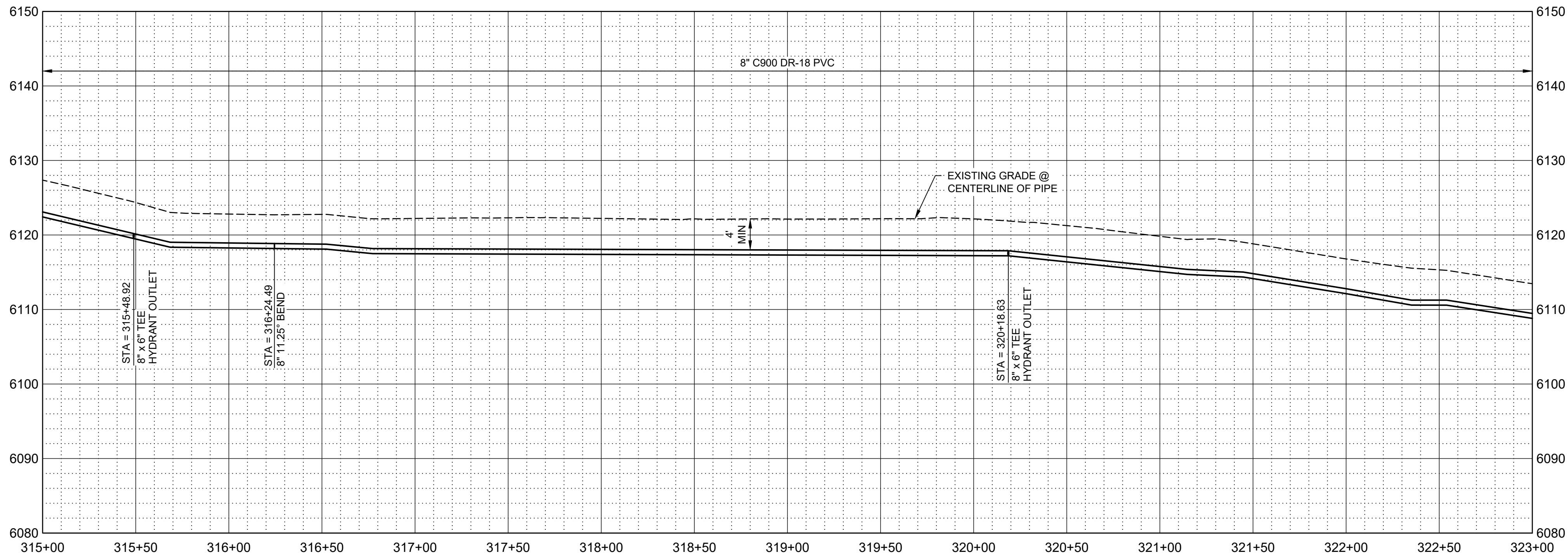
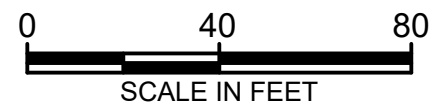
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PLAN



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.
- 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.

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 SALVAGE EXISTING CISTERN FOR REUSE BY OTHERS AND CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE FILL MATERIAL FOR REMOVED CISTERN. PROVIDE 95% COMPACTION.
- ~~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.~~
- ~~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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60% 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

XX

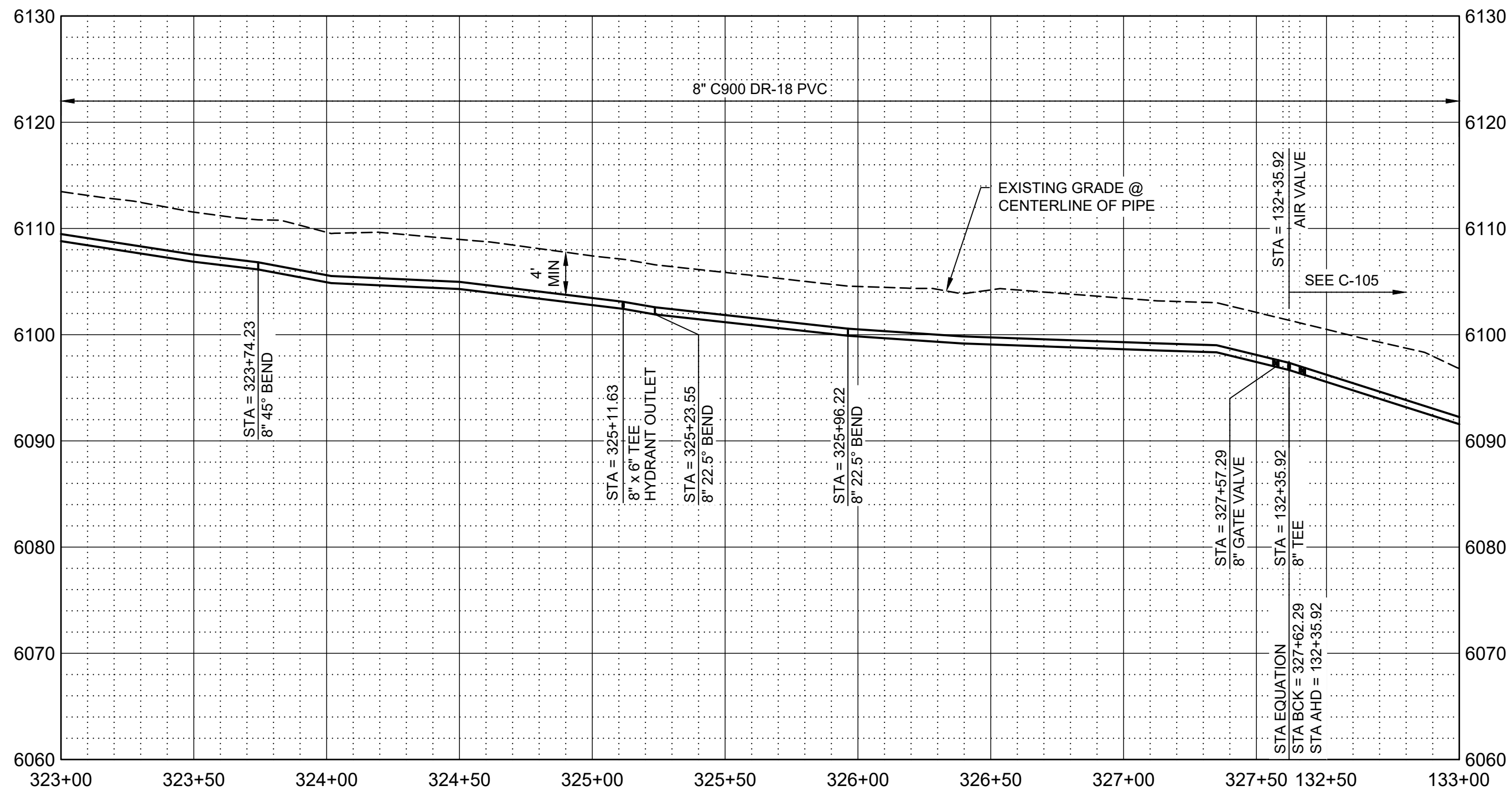
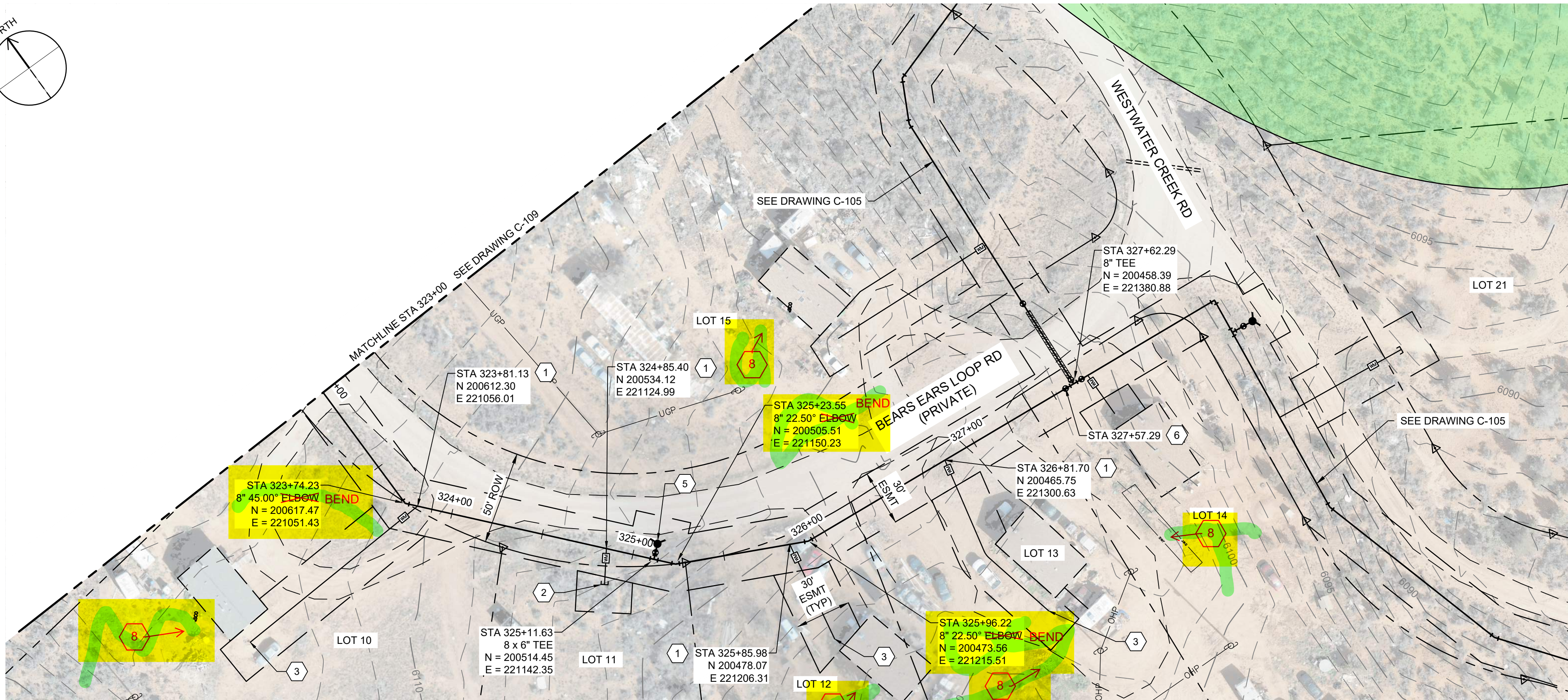
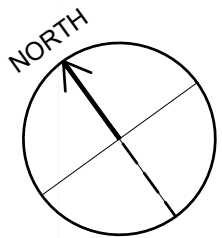
SHEET NUMBER

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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 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 SALVAGE EXISTING CISTERN FOR REUSE BY OTHERS AND CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE FILL MATERIAL FOR REMOVED CISTERN. PROVIDE 95% COMPACTION.
- 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.
- 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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60% 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

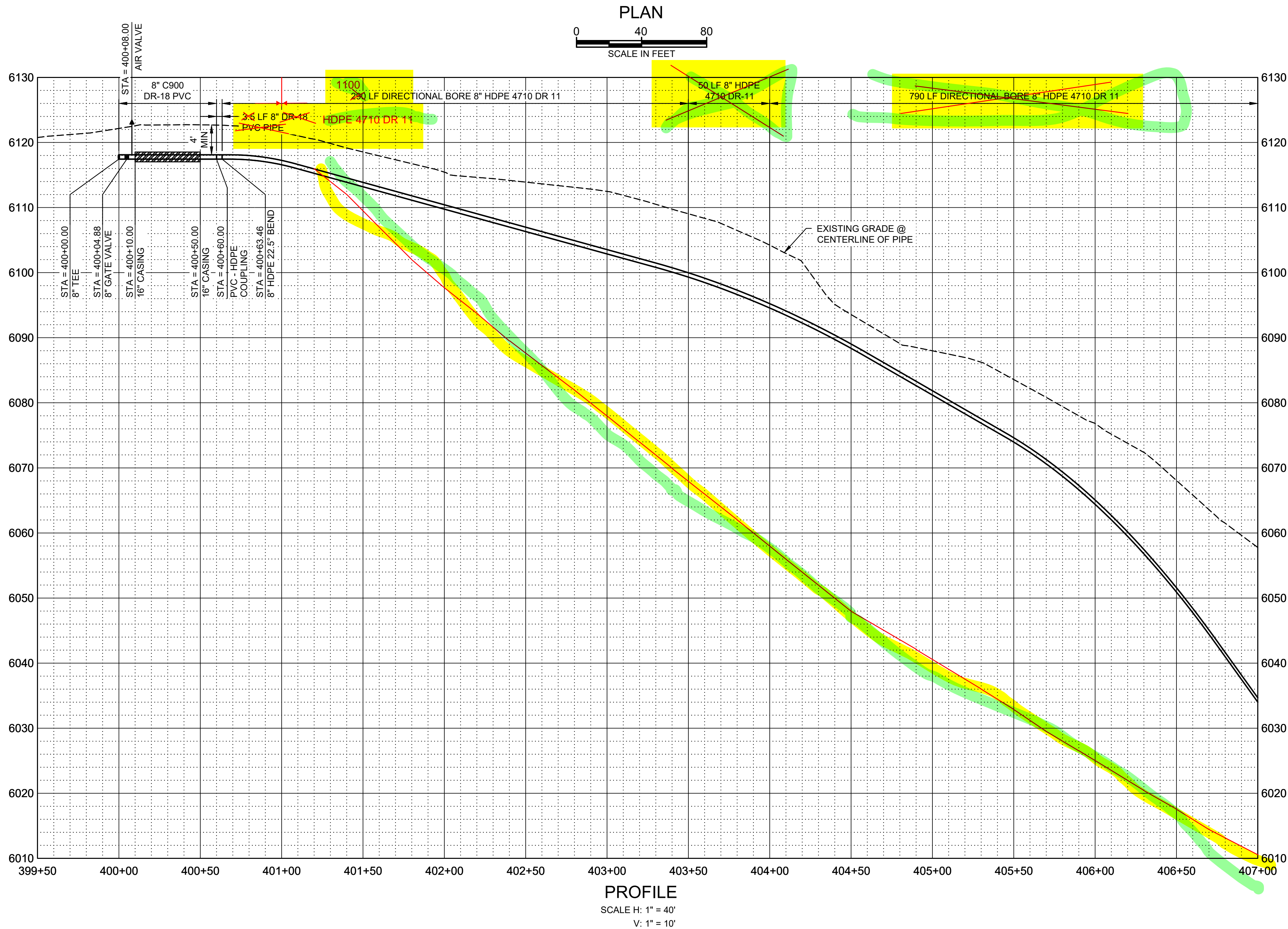
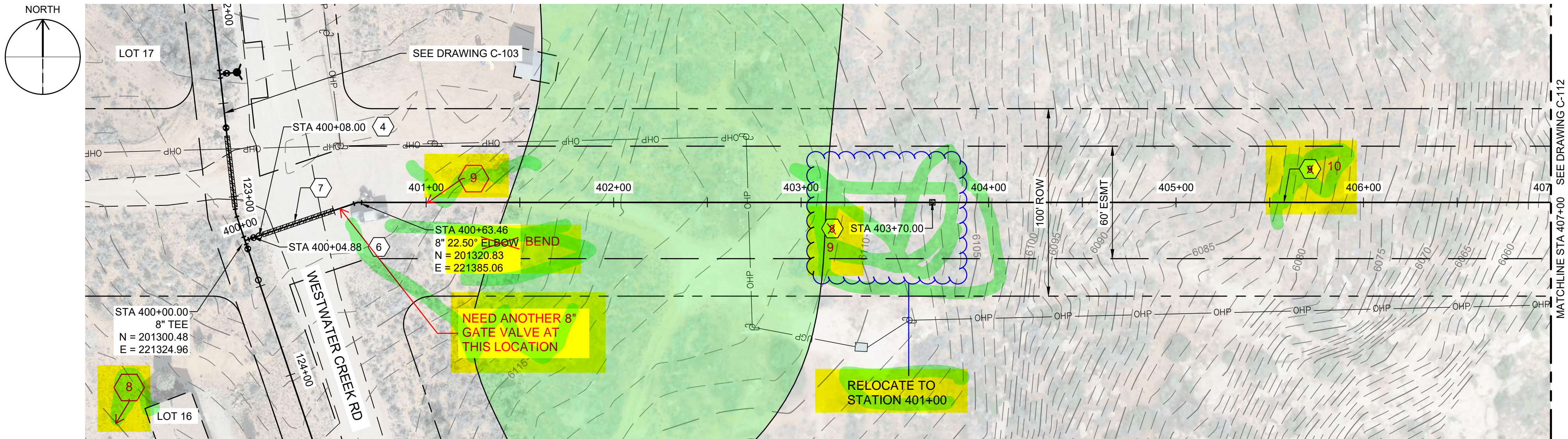
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LEGEND

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WATER SYSTEM
DESIGN

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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED: ---

CHECKED: ---

APPROVED: S. BRENCHLEY

FILENAME

C-111.dwg

BC PROJECT NUMBER

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CIVIL

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

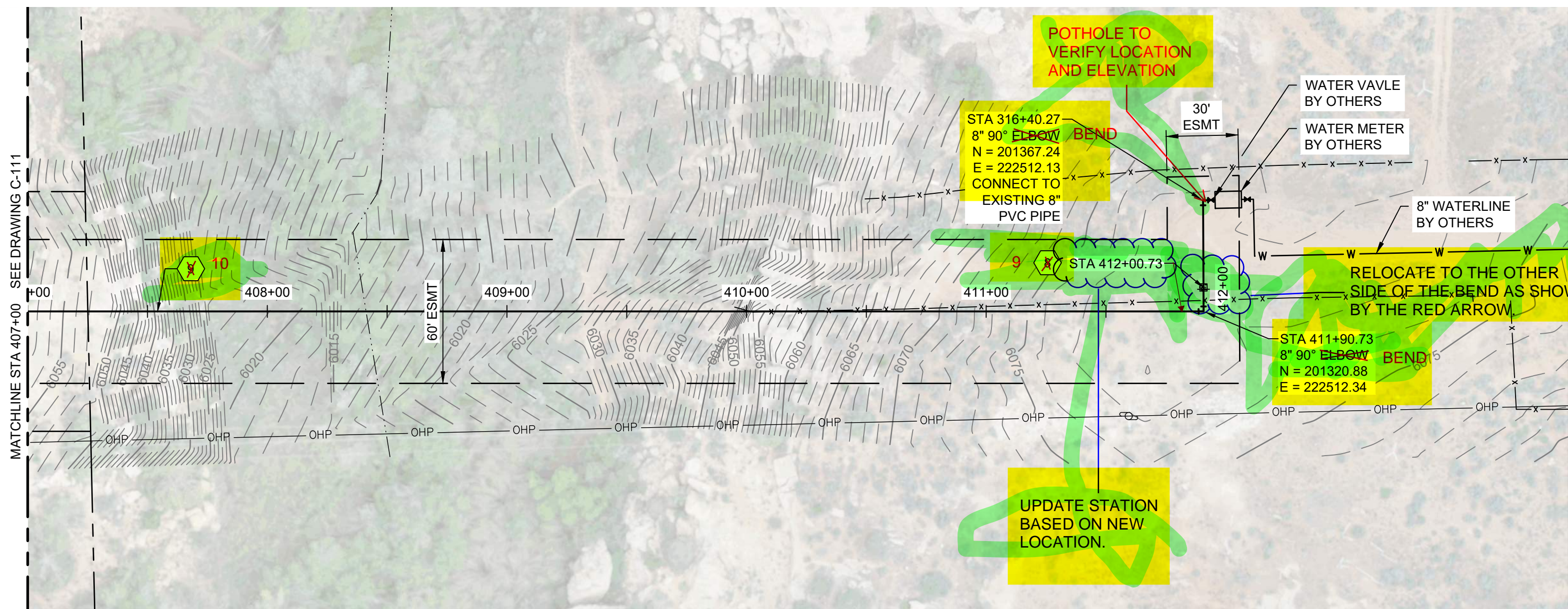
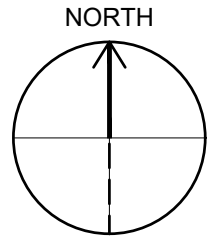
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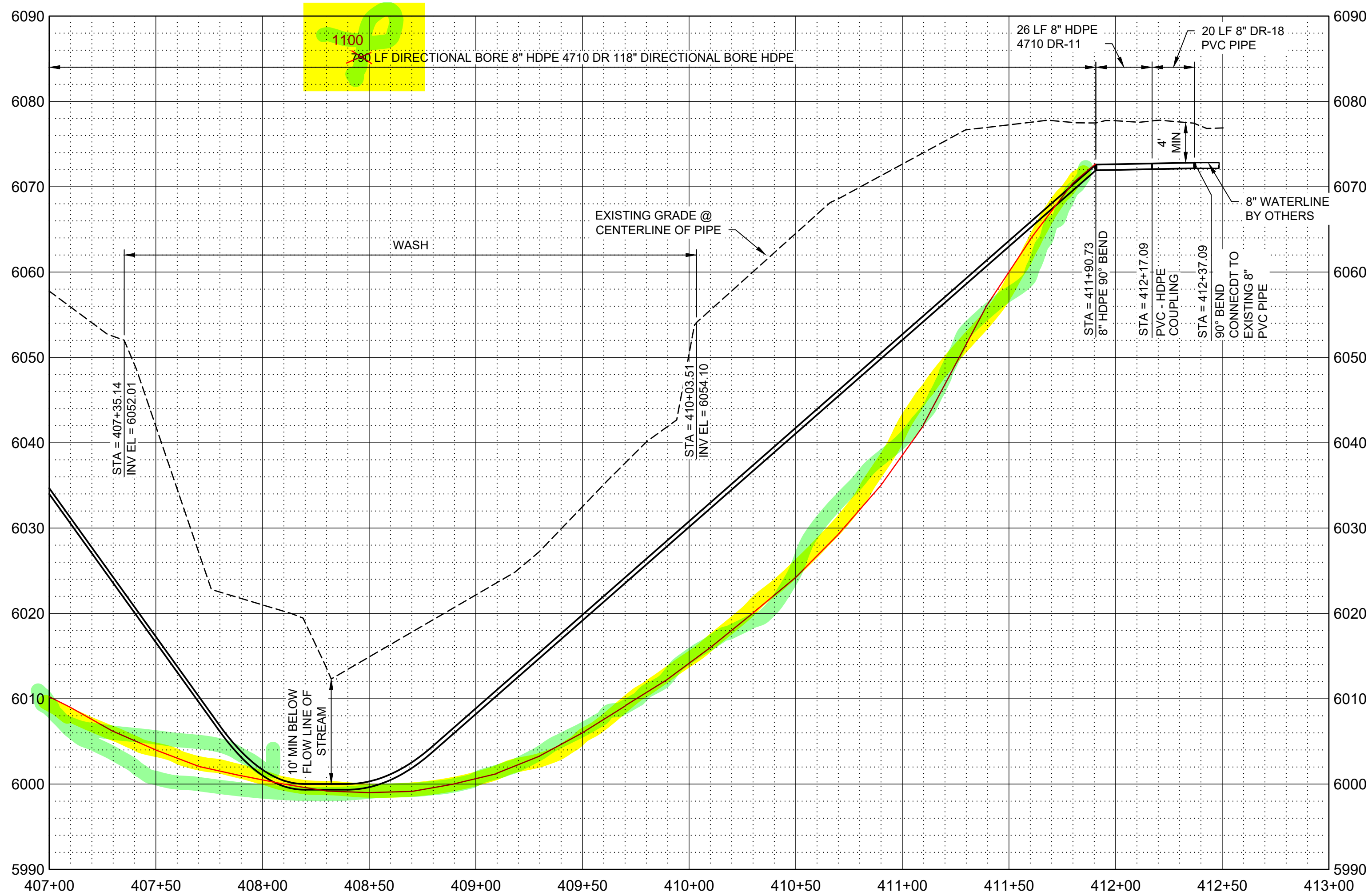
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PLAN
0 40 80
SCALE IN FEET



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

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

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