

SECTION 02896

BOUNDARY SURVEY

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Provide boundary survey, and plat.
- B. Furnish and set right-of-way markers.

1.2 RELATED SECTIONS

- A. Section 03055: Portland Cement Concrete

1.3 REFERENCES

- A. ASTM A 53: Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
- B. Utah Code 17-23-17

PART 2 PRODUCTS

2.1 RIGHT-OF-WAY MARKERS

- A. Pipe: As shown in GW series Standard Drawings. Meet ASTM A 53, Schedule 40, Galvanized.
- B. Cast bronze cap: Free from defects and constructed as shown in GW series Standard Drawings.

2.2 CONCRETE

- A. Class B concrete per Section 03055.
- B. May substitute higher class of concrete.

PART 3 EXECUTION

3.1 RIGHT-OF-WAY MARKERS

- A. Place Right-of-Way Markers in accordance with GW series Standard Drawings, including stamping onto each Right-of-Way Marker:
 - 1. Control Line station
 - 2. Elevation (To 2 decimal places)
 - 3. Professional Land Surveyor's License Number
 - 4. Year
 - 5. Exact control point location to within 0.01 feet
- B. Tightly rivet cap to the pipe.

3.2 BOUNDARY SURVEY

- A. Provide record of survey plat by Utah licensed surveyor.
- B. File mylar copy of plat with county surveyor, region, and Central Right-of Way offices of Department.
- C. Accuracy: Third Order, and Class I (1/10,000).

3.3 PLAT COMPLIANCE REQUIREMENTS

- A. Refer to Utah Code 17-23-17.
- B. Department procedure Design Process.
- C. Show on the survey plat:
 - 1. Survey coordinates accurate to 5 decimal places and elevations accurate to 2 decimal places on all right-of way markers.
 - 2. Right-of-Way markers.
 - 3. Adjacent quarter corners and section corners with bearings and distances along the section line to the control line from each adjacent corner.
 - 4. Original highway control points (right-of-way markers).
 - 5. Local city or county monuments.
 - 6. Control line geometric information with references ties to section and quarter corners.
- D. Compute and draw plat, stationing, and coordinates to the same units as the project drawings.

- E. Deliver a copy of the survey plat to Engineer on a 3-1/2 inch disk in MicroStation format.
- F. Correction Factor: Show state plane to ground correction factor.
- G. Show the latitude and longitude of the control line at the beginning and end of the project.

END OF SECTION