SURVEY SPECIFICATIONS
Dexter Community Schools 2025 Bond

A. Survey Limits

1. Limits – See Appendix A. Survey shall encompass the full area as indicated. Surveyors shall visit the site prior to submitting their proposal to confirm the current existing conditions.

B. Survey Specifications

1. **Pickups** - Locate all physical surface objects, i.e., bituminous pavement, concrete pavement, gravel pavement, playground surfacing and edging, sidewalks, curb and gutters, straight curbs, integral curbs, walkway ramps and barrier free plates, pavement markings, gates, walls, transformers, dumpsters, loading docks, trees 2" and greater with diameter at breast height and species indicated and schedule provided, brush lines, fences (with type and height), guy wires and poles, marker posts (telephone, electric, site and street lighting, cable television, fiber optics), building perimeter, building door openings, building overhangs and canopies (dashed lines), bollards, signs, flagpoles, benches, exposed concrete footings from portable classrooms that have been removed, wetland delineation flags provided by wetland consultant.
2. **Contours** – Existing contours shall be provided at 1' intervals.
3. **Elevations** – Spot elevations shall be provided to the nearest hundreds of a foot. All elevations will be taken in U.S.G.S. datum and a listing will be compiled of all benchmarks established and used.

   The following information shall be provided:

   a. Spot elevations shall be provided at 25' stations for the following:
      1) Curb elevations, at top of curb, gutter, and edge of metal. Where gutter pan has been paved over it shall be noted.
      2) Edge of pavements and change of surface materials.
      3) Edge of walks and walk corners.
      4) Individual playground areas.
   b. Spot elevations shall be provided in a 50' grid for the following:
      1) Parking lots
      2) Lawn areas
   c. Spot elevations shall be provided at the following:
      1) Point of curvature and midpoint of all radii.
      2) Building corners and doors, finished floor elevation to be provided at all doors. Building walls exceeding 50' between corners shall have midpoint of wall provided.
      3) Drive approaches; provide spot elevations – top of curb, gutter, edge of metal for M – Opening (tangential gutter pan), curb transition from roadway to inside and outside of sidewalk. Provide spot elevations at 8' intervals.

4) Pedestrian ramps – bottom of ramp, top of ramp, level landings, ramp/ curb transitions. Provide both sides of walk and ramp, curbs, and ramp wings.
5) At barrier free parking locations provide spot elevations in 10' grid.
6) At building entrance locations provide spot elevations for concrete pavement/walkway, top of curb, gutter, edge of metal, ramps in 10' grid.
7) At all utility structure frames.
8) At all corners of pavements.

4. **Utilities -** All overhead and underground utilities will be located. For Sanitary and Storm Sewer systems provide; rim elevations, inverts, pipe size and type, direction of flow, structure size and material. For Water Lines provide line size, hydrants, source connect point and size of line connecting to. Show all connection points/ leads to building for all utilities. Show all existing (abandoned) utilities previously connected to portable classrooms (removed) on south side of building. If utility structures are found full of debris, the surveyor shall immediately report this to the Construction Manager. Inaccessible utilities will be placed on the plan sheets from record information to be obtained from the City and County and private utility companies. Sanitary and Storm Sewer structure information including rim elevations, inverts and pipe size, and structure size shall be provided on a schedule, on the drawing.
5. **Boundary -** Provide R.O.W. for all roads, provide centerline of R.O.W. Also indicate on the survey, any corner markers / irons found in the field. Show all Property Lines. Where property corners are not found, show property lines from City and County plat maps and so indicate on the drawings which are from plat maps and which are found markers / irons.
6. **Easements** – The surveyor shall show all easements within the survey area. Provide the purpose and Owner of the easement.

C. Drafting Requirements

1. Utilize layering system as outlined in Attachment A. Additional layers may be used as required with layer names following the attached format.
2. All blocks shall be created on layer 0 so that when they are inserted, they take on properties of the current layer.
3. All line colors and line types shall be by layer.
4. Line type scale shall be set to 15. Final plot scale will be 1" = 20'.
5. When drawing curbs or curb and gutters, they will be as follows: a straight curb section has two lines, which represent the face of curb and back of curb, with the back of curb being the controlling dimension. A curb and gutter section has three lines which represent the back of curb, face of curb, and edge of gutter pan. NOTE: The face of curb is symbolic only and is not used for scaling purposes.
6. All plans will show dimensions for right-of-ways.
7. The deflection angles will be labeled at all points. This will be shown at survey line, point of intersection.
8. North arrow shall be provided.

9. The standard scale on drawings will be 1” = 20’. (If any change is made to the scale, please notify prior to drafting.)
10. The name, address and phone number of the surveyor shall be placed on the periphery of the drawing.
11. All benchmarks shall be located on the drawing and shall be listed as notes on the periphery of the drawing.
12. Drawing layers will be as supplied by Beckett & Raeder, Inc. (see Attachment A). A disc will be provided with a .dwg file which can be inserted into the survey drawing to retrieve the BRI layers.
13. All work will be completed using AutoDesk Civil 3D. To be compatible with AutoCADD release 2023. Survey information to be provided on disc to Beckett & Raeder, Inc. in a *.dwg format.

Attachment A
Layering Specifications

Layer Name	*Description*
E-BLDG	Existing buildings
E-BLDG-TX	Text pertaining to above - building names, notes, etc.
E-C	Existing non-major contour lines (1-4, 6-9)
E-C-FIVE	Existing major contour lines (5, 10, 15, etc.)
E-C-SPOT	Existing spot elevations
E-FL	Existing fence line
E-FL-TX	Text pertaining to above
E-FURN	Existing site furnishings (parking meters, regulatory signage, bollards, tree grates, etc.)
E-FURN-TX	Text pertaining to above
E-RD	Existing road edge (to be used when there is no curb)
E-RD-CL	Centerline of Existing Road
E-RD-CURB	Existing Curb or Curb & Gutter
E-RD-TX	Text pertaining to above
E-UCOMM	Existing communication line
E-UCOMM-STR	Existing communication line structure
E-UCOMM-TX	Existing communication line text
E-UELEC	Existing electrical line
E-UELEC-STR	Existing electrical line structure
E-UELEC-TX	Existing electrical line text
E-UGAS	Existing gas line
E-UGAS-STR	Existing gas line structure
E-UGAS-TX	Existing gas line text
E-USAN	Existing sanitary line
E-USAN-STR	Existing sanitary line structure
E-USAN-TX	Existing sanitary line text
E-USTM	Existing steam line
E-USTM-STR	Existing steam line structure
E-USTM-TX	Existing steam line text
E-USTR	Existing storm line
E-USTR-STR	Existing storm line structure
E-USTR-TX	Existing storm line text
E-UWM	Existing water line
E-UWM-STR	Existing water line structure
E-UWM-TX	Existing water line text
E-VEG	Existing vegetation (trees, shrubs, etc.)
E-VEG	Text pertaining to above
E-WALK	Existing walk
E-WALK-JT	Existing walk joints
E-WALK-TX	Text pertaining to above
E-WALK-UP	Existing unpaved paths
E-WATER	Existing water edge (ponds, lakes, wetlands, etc.)
S-BM	Benchmark information
S-BORE	Borings
S-CONTROL	Horizontal & Vertical Controls

S-PL	Property Line
S-PL-TX	Text pertaining to above
S-ROW	Existing ROW / Easement lines
S-ROW-TX	Text pertaining to above