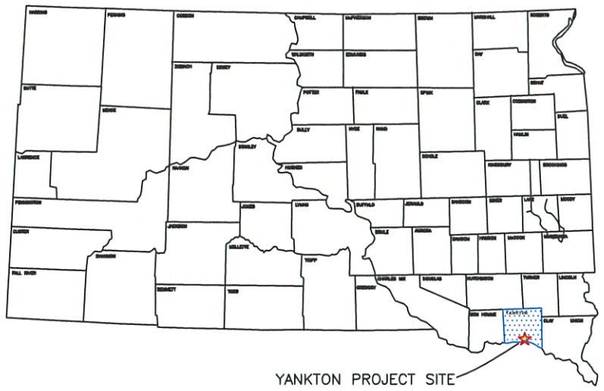
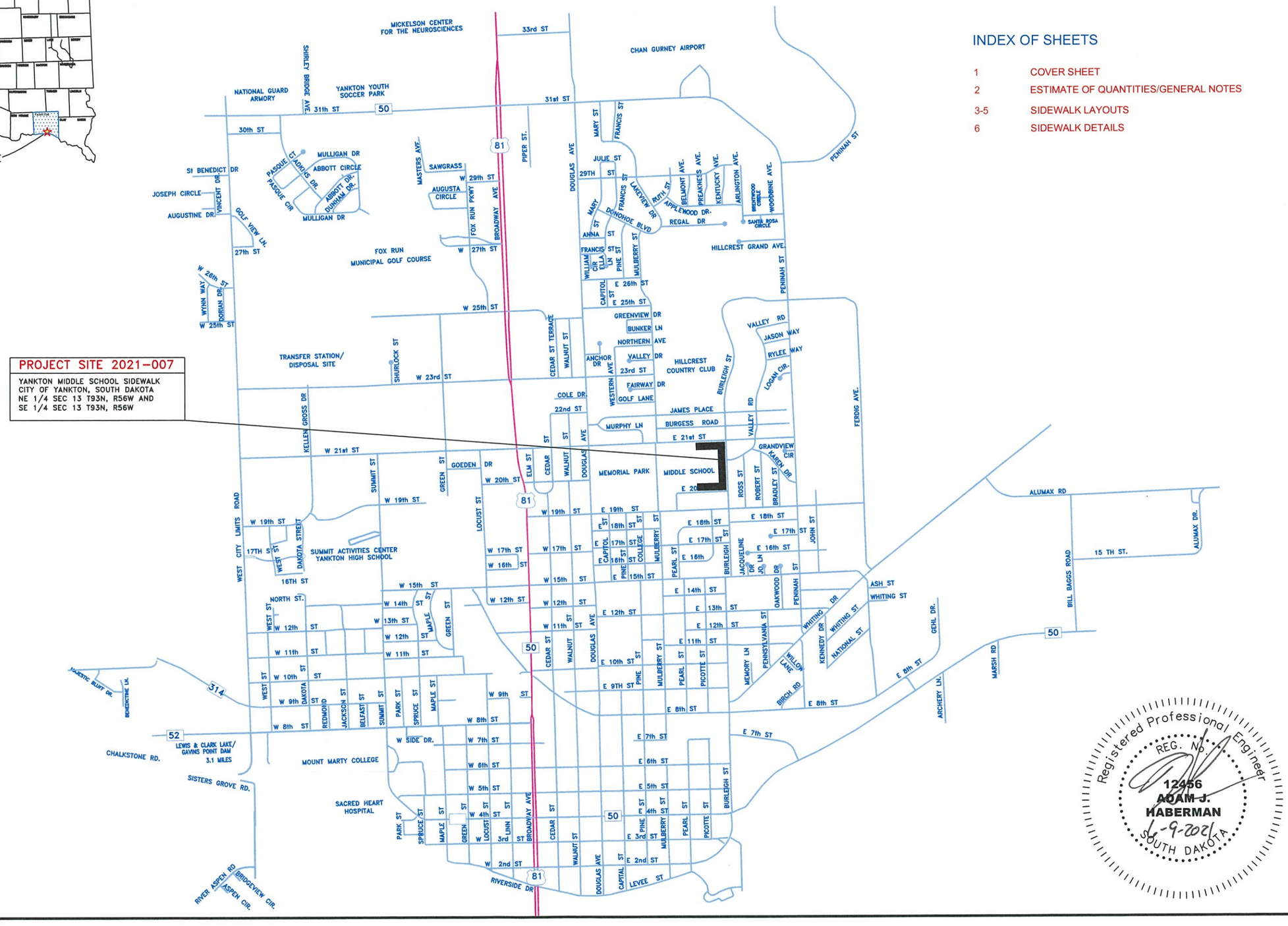
PROJECT	SHEET NO.	TOTAL SHEETS
2021-007	1	6
COVER SHEET		

2021-007
6' SIDEWALK INSTALLATION YANKTON MIDDLE SCHOOL
21ST ST, BURLEIGH AND 20TH ST





INDEX OF SHEETS

Registered Professional Engineer
REG. No.
12456
ADAM J.
HABERMAN
6-9-2021
SOUTH DAKOTA

PROJECT	SHEET NO.	TOTAL SHEETS
2021-007	2	6
QUANTITIES / NOTES		

BID ITEM	DESCRIPTION	BID QUANTITY	UNIT
1	MOBILIZATION	1	LS
2	SAW EXISTING CONCRETE	75	LF
3	REMOVAL OF CURB AND GUTTER	40	LF
4	REMOVAL OF CONCRETE	33	SY
5	GRADING	1	LS
6	CURB AND GUTTER INSTALLATION	40	LF
7	DETECTABLE WARNING PANEL	48	SF
8	6" CONCRETE SIDEWALK	14000	SF
9	7" FILLET	116	SF
10	SEEDING	1	LS

WORK DESCRIPTION:

The City of Yankton is completing the sidewalk connections, 21st St, Burleigh and 20th St. around the Yankton Middle School Track and Field as depicted in the plans. Contractor will be required to grade the base material and place the concrete sidewalk. Backfill and seeding along the new sidewalk will be completed by the Contractor.

Contractor will need to furnish and install 4 - 6'x2' (12SF) detectable warning panels at locations designated in the plans. Price of panels will be separate from the sidewalk price.

Contractor to make an effort to have sidewalk installed, within 48 hrs of disturbing existing grade. Topsoil installation should follow as soon as the sidewalk has sufficiently cured.

Any excess material is to be hauled to City of Yankton property located at 33rd and Douglas Ave.

SURVEYING/STAKING:

All staking for sidewalk alignment will be completed by the City of Yankton. The sidewalk is to be installed as closely to the exisitng topography as possible, therefore grades and elevations sidewalk will be determined in the field.

6" CONCRETE SIDEWALK

Concrete sidewalk shall be constructed in accordance with Section 651 of Standard Specifications. Base course material, two(2) inches thick, shall be placed beneath the sidewalk.

AGGREGATE BASE COURSE

Aggregate Base Course will be supplied by the City of Yankton. Material can be obtained at City stockpile site located at 23rd and Kellen Gross Dr. This material is to be weighed before leaving landfill. The Contractor is to supply his own personnel and equipment to load trucks. Landfill hours are from 8am to 3:45pm. Cost of hauling / placing base course shall be included in sidewalk price. Aggregate Base Course shall be compacted to 95% of standard proctor density.

CURING OF CONCRETE

Portland Cement Concrete Pavement, Concrete Curb & Gutter, Sidewalks, Valley Gutters, and Fillets shall be cured. All concrete shall be cured in accordance with section 380.3.P2 of the 2015 SDDOT Standard Specifications for Roads and Bridges except as modified in this note. All concrete shall be cured with a White Pigmented Linseed Oil Base Emulsion Compound when cured using the Impervious Membrane Method. Curing compound material shall be in accordance with section 821.1.D.

UTILITIES:

No utilities were located for the purpose of design. Sidewalk locations may be adjusted if major conflicts with utilities arise. Make a free call to 811 (in-state) or (800) 781-7474 (outside of South Dakota).

SEEDING

All grass areas disturbed by construction are to be hydromulched. Lump sum price will be for all areas disturbed by Contractor. Price shall also include the cost for fertilizer and fiber mulch, refer to SD-DOT Standard Specs 2004 Edition section 730 and 731. The following will be provided, by the Contractor, for use on the project unless an alternate is approved by the Engineer.

The estimated amount of area to be seeded: 9100 SF (Estimated the disturbed area to be 10' with a 6' sidewalk)

SEED MIXTURE	PURE LIVE SEED/ 1000 FT. SQ.
Kentucky Bluegrass	1 pound
Perennial Rye Grass	1 pound
Park Kentucky Bluegrass	1 pound

GRADING:

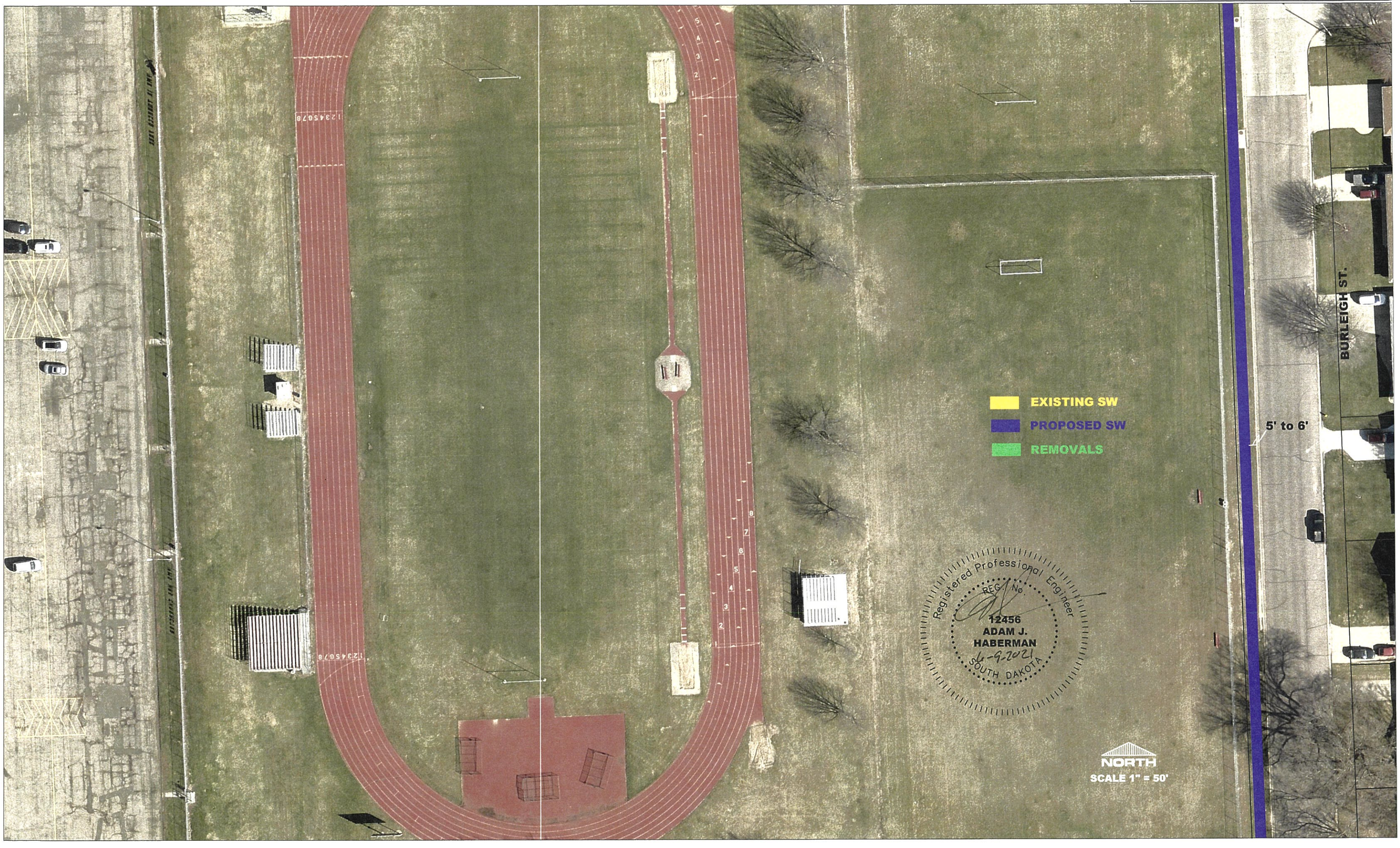
Work to include all excavation, and topsoil salvage. Also includes placing, spreading and fine grading the surface smooth for seeding application. Contractor may be required to re-prepare topsoil, if seeding isn't done in a timely manner and weeds become an issue.

Registered Professional Engineer
REG. No.
12456
ADAM J.
HABERMAN
6-9-2021
SOUTH DAKOTA

PROJECT	SHEET NO.	TOTAL SHEETS
2021-007	3	6
SIDEWALK LAYOUT		

Registered Professional Engineer
REG. No.
12456
ADAM J.
HABERMAN
6-9-2021
SOUTH DAKOTA

PROJECT	SHEET NO.	TOTAL SHEETS
2021-007	4	6
SIDEWALK LAYOUT		

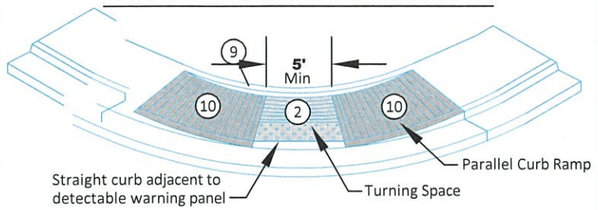


PROJECT	SHEET NO.	TOTAL SHEETS
2021-007	5	6
SIDEWALK LAYOUT		

PROJECT	SHEET NO.	TOTAL SHEETS
2021-007	6	6

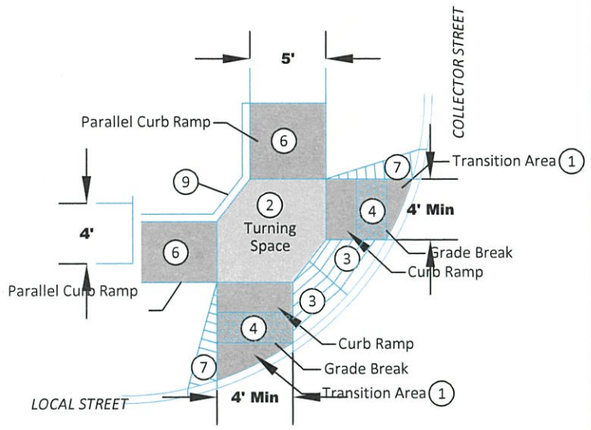
SIDEWALK DETAILS

PARALLEL CURB RAMP EXAMPLE

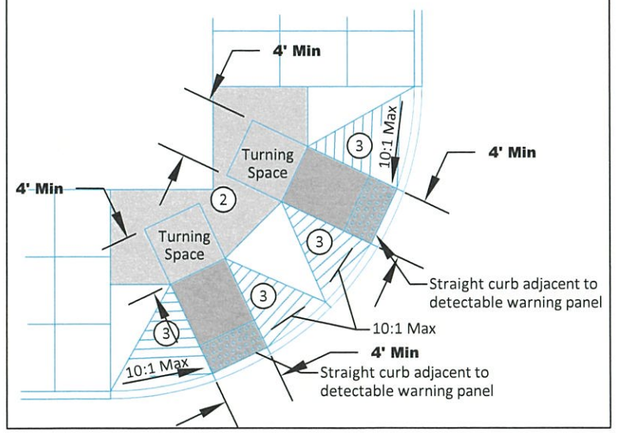


DIRECTIONAL SIDEWALK RAMP EXAMPLE

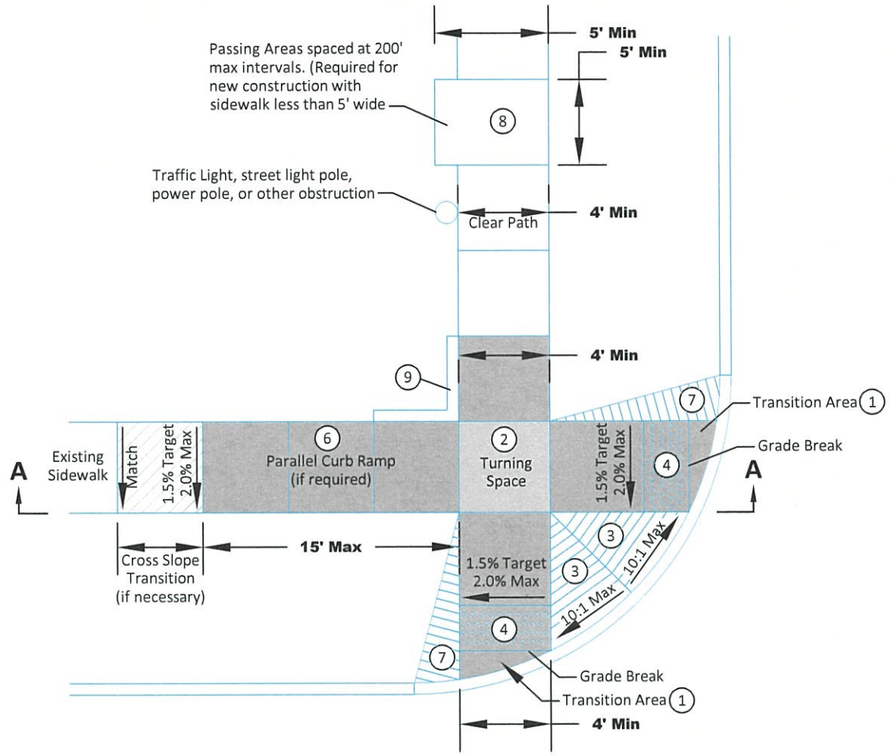
(Typical of a local/collector intersection with a 20' radius)



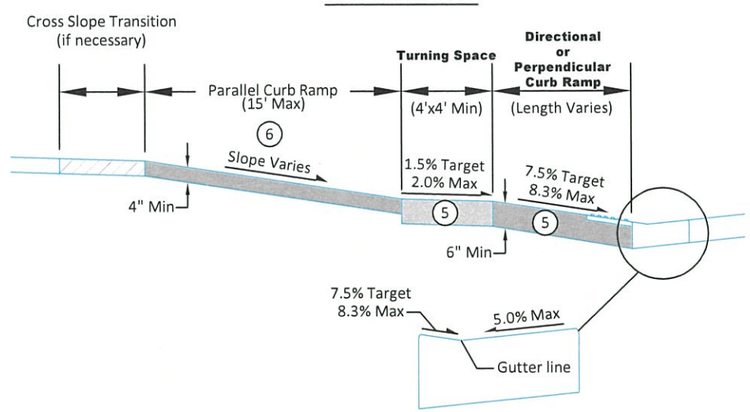
PERPENDICULAR CURB RAMP EXAMPLE



DIRECTIONAL SIDEWALK RAMP EXAMPLE



SECTION A-A



NOTES:

1. Transition from the the 2% maximum cross slope on the ramp and the pedestrian street crossing grade in this area. The maximum cross slope on the pedestrian street crossing (including the fillet or curb and gutter) is 2% on stop or yield controlled legs and 5% on uncontrolled or signalized legs.
2. Minimum 4 feet by 4 feet. Target cross slope of 1.5% with a maximum cross slope of 2.0% in any direction. Where the turning space is confined at the back of sidewalk (example: 6" curb or building), the turning space shall be 4 foot by 5 foot minimum. The 5 foot dimension shall be in the direction of the ramp run. The grade change between the turning space and the curb ramp must be perpendicular to the direction of travel.
3. Areas where the pedestrian circulation path crosses a curb ramp are considered flare sides. The maximum slope of the flare sides is 10%. Full curb height may not be able to be reestablished on flare slopes but as much curb height as possible should be reestablished.
4. Provide a minimum 2 foot width of detectable warning surfaces in the direction of pedestrian travel across the full width of the curb ramp or turning space, exclusive of curbs or flares. Orient domes in the direction of pedestrian travel unless otherwise stated in plans.
5. The concrete in the turning space, curb ramp, and flare slope areas shall be a minimum thickness of 6 inches.
6. If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and turning space due to limited ramp length, provide a parallel ramp to make up the elevation difference between the turning space and the standard sidewalk. This parallel ramp shall not exceed 8.3% slope. However, the length of the ramp is not required to exceed 15 feet, regardless of slope. The minimum sidewalk thickness for the parallel ramp in this area is 4 inches.
7. Install a 2 foot taper when additional sidewalk will not be located adjacent to the curb ramp.
8. Depending on the conditions, a curb up to 6 inches high may need to be installed on the back of the turning space or adjoining sidewalk.
9. The slope of curb ramp and adjacent curb is designed at 7.5% or less but shall not be steeper than 8.3% unless otherwise specified in the plans. The curb ramp is not required to exceed 15 feet, regardless of slope. The cross slope target is 1.5% with a maximum cross slope of 2.0%.

GENERAL NOTES:

The turning space, curb ramp, and detectable warning panel area will be paid for at the contact unit price for the corresponding concrete sidewalk bid item.

The detectable warning panel shall be measured and paid for to the nearest square foot. Payment shall include all costs for materials, labor, and equipment necessary for the installation of the detectable warning panels.

Revised: December 2016

CITY OF SIOUX FALLS
ENGINEERING DIVISION

ACCESSIBLE CURB RAMPS

SPECIFICATION REFERENCE	PLATE NUMBER
NO. 650	651.02