City of Deadwood **Deadwood Hill Trailhead Parking Lot** Deadwood, South Dakota **July 2024**



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File Number: 231370.00 Location: E 1/2 Section 14 T5N, R3E, BHM Surveyed By: EK Date: December 2023 Designed By: JLH Drawn By: MDS Checked By: JLH	
City of Deadwood Deadwood Hill Trailhead Parking Lot Deadwood, South Dakota	
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GENERAL CIVIL NOTES

SPECIFICATIONS TO BE USED

Unless otherwise noted on the drawings, in the contract documents, or in the detailed specifications all work on these drawings shall be in accordance with the South Dakota Department of Transportation (SDDOT) Standard Specifications for Roads and Bridges, 2015 Edition, including all current updates, except as modified in these plans and the bidding documents.

In the event of a conflict between the standard specifications, the contract documents, and plan notes, the more stringent requirement, as determined by the Engineer, shall prevail.

CONSTRUCTION SCHEDULE REQUIREMENTS

The Contractor shall submit the proposed construction schedule not less than (7) working day prior to the preconstruction meeting.

COORDINATION AND SCHEDULING

A preconstruction meeting will be conducted, the Contractor will be required to attend this and other periodic meetings as necessary with the Engineer and Owner for the purpose of scheduling and coordination during the course of construction.

PERMITS

The Contractor shall be responsible for obtaining all necessary permits and permit fees for this project. Copies of all permits shall be provided to the Engineer prior to beginning work.

EROSION AND SEDIMENT CONTROL

The Contractor is solely responsible for procuring coverage for pollution control for the project. Pollution control shall be in accordance with applicable local and federal rules and regulations. Appropriate Erosion and Sediment Control Measures shall be maintained until the site is permanently stabilized.

A SDDANR stormwater permit for general construction activities will be required as the area of disturbance is over one (1) acre. The owner shall complete the Notice of Intent and pay the associated fee, but the Contractor shall be responsible for preparation and maintenance of the Stormwater Pollution Prevention Plan (SWPPP).

MATERIALS TESTING

Materials Testing is the responsibility of the Owner and will be performed by FMG Engineering. Contractor to coordinate with FMG Engineering for required testing. It is the Contractor's responsibility to coordinate their work and schedule testing with the Owner's testing agency.

The Owner shall provide initial testing only, any additional testing required at no fault of the Owner shall be the responsibility of the Contractor. If additional special testing be required because of insufficient work quality through no fault of the Owner, the Contractor shall pay for all required re-testing necessary to assure the Owner and Engineer that the integrity of the final product meets the intent of the plans and specifications.

SUBMITTALS

Submittals shall be made by the Prime Contractor in accordance with Specifications To Be Used. Submittals shall be made at least 7 working days before Contractor's need for approval. Electronic files (PDF documents) for each submittal shall be made. Submittals shall clearly identify the project and specification section. Submittals shall be certified and dated by the Contractor as being in compliance with the specifications and plan requirements unless. Any deviations from specification requirements shall be noted by the Contractor.

The term "submittals" includes drawings, diagrams, descriptive literature, illustrations, instructions, schedules, performance and test data, product data sheets, material safety data sheets, and similar materials by a Supplier or Contractor, to illustrate material or equipment for some portion of the work.

Any work done prior to Engineer's approval shall be at the Contractor's risk. Re-submittals shall be made the same as for original submittals with changes from the previous submittal clearly shown.

RECORD DRAWINGS

The Contractor shall document all changes. Maintain onsite and separate from documents used for construction, one complete set of contract documents as record drawings. Changes include work which is installed differently than shown on the plans. Record drawings shall be provided to the Engineer upon completion.

EXISTING UTILITIES

The South Dakota one call number was called for utility locates during survey activities for the design. The utilities shown on the drawings are from the one call markings made for that project as otherwise noted on the drawings. The location of all existing utilities may not be shown on the plans or are not accurately represented on the drawings.

Existing overhead and underground power lines, overhead and underground telephone lines, fiber optic cables, water lines, gas mains, sewer lines, and other utilities not authorized to be removed shall be supported and protected from injury by the Contractor during construction and until completion of the work affecting them. The Contractor is responsible for having all utilities located prior to beginning construction. The Contractor shall be liable for damages done to such existing facilities and he shall hold the Owner harmless from any liability or expense for injuries, damages, or repairs to such facilities.

The Contractor shall coordinate all work with the utility companies. No additional payment will be made for this work.

The Contractor is to verify the existence and location of the existing utilities at the site. No extra payment will be made because of different utility locations or any other utilities that may be present unless pre-approved by the Owner and Engineer.

TRAFFIC CONTROL

The Contractor shall be responsible for Traffic Control. The Contractor shall maintain traffic in accordance with Standard Specifications. Provide Traffic Control Plan to City of Deadwood and SDDOT for approval for all work in public right of way. Submit copy of approved Plan. No additional payment shall be made.

EARTHWORK - UNCLASSIFIED EXCAVATION

All material encountered in the site work excavation shall be considered unclassified excavation regardless of the actual type of material encountered and no extra payment will be made for varying materials.

The Contractor is responsible to determine the amount of earthwork that will be necessary to complete the project. The Contractor shall dispose of excess excavation at a Contractor furnished site.

If soft or unstable materials are encountered during grading operations the contractor shall notify the Engineer for review of that area. Stabilization of these areas may be required as directed by the Engineer. So long as the project is constructed as shown on plans, plans quantities shall be the basis for payment and no additional payment shall be made. Earthwork quantities shown are for reference only and do not include shrink, swell, or reductions/additions to account for surfacing

materials.

CONTRACTOR PROVIDED WATER

The Contractor shall be responsible for providing water for compaction of earthen and granular materials used for the project. Water needed for turf reestablishment, street cleaning, and other miscellaneous items shall also be provided by the Contractor.

SUBGRADE SCARIFICATION

In areas under pavement, after subgrade elevations is reached and immediately prior to placing aggregate base course, the Contractor shall scarify the subgrade to the depth indicated on the drawings, adjust the moisture content, and compact the materials per the specifications. Subgrade scarification shall result in full processing of the soil using disks, rippers, blades, or other suitable equipment such that the soil is fully mixed prior to compaction. Subgrade shall be compacted to a density no less than 95 percent of the maximum dry density as determined by the Modified Proctor (ASTM D 1557.91).

SUBGRADE AND BASE COURSE PROTECTION AND MAINTENANCE

The Contractor shall protect and maintain the completed compacted subgrade and aggregate base course. Where completed subgrade or base course areas are affected by subsequent construction operations or adverse weather, the Contractor shall scarify the surface, reshape, and compact the material to required moisture and density prior to further construction.

THE TESTING AGENCY SHALL BE NOTIFIED TO TEST THE SUBGRADE BELOW ALL PAVEMENTS IMMEDIATELY BEFORE THE PLACEMENT OF MATERIALS ABOVE THE SUBGRADE TO VERIFY THE SUBGRADE MEETS SPECIFICATIONS.

SUBGRADE AND AGGREGATE BASE COURSE PROOFROLLING

Before placement of the aggregate base course the prepared subgrade shall be proof rolled by the Contractor. Before placement of asphalt or concrete pavements the prepared aggregate base course shall be proof rolled by the Contractor. Proof rolling of these areas is required to check for unstable or soft areas and is required regardless of passing compaction tests. The Contractor shall furnish required heavy equipment to proof roll the areas. A materials technician from FMG Engineering must be present during proof rolling operations.

Soft areas or unstable areas discovered during proof rolling shall be stabilized to the satisfaction of the Engineer. No extra payment will be made for proof rolling.

AGGREGATE BASE COURSE

Material for aggregate base course shall conform to the requirements for Limestone Ledge Rock Base Course in Section 882 of the Standard Specifications. The aggregate supplier shall submit material sampling and testing results obtained during the year the material will be placed.

A PRE-PAVING MEETING

The Contractor shall schedule and coordinate a pre-paving meeting with the paving Superintendent, Job Foreman, Engineer, and the Owner's Testing personnel prior to initiating paving activities. It's the Paving Superintendent's responsibility to review paving requirements including but not limited to anticipated weather conditions, truck schedules, delivery schedules, paver speed set for deliveries, actions to be taken in the event of paving interruptions, maximum paver stoppage permitted, joint requirements, subcontractor scheduling, traffic control, asphalt surface raking requirements, etc.

ASPHALT CONCRETE PAVEMENT

Asphalt shall comply with the Standard Specifications.

Asphalt Concrete shall be Class E, see details. Mix design submittals are required. Mix design shall be based on material samples obtained during the year the material will be placed. Asphalt Binder shall be PG 64-22.

Recycled Asphalt Product (RAP) may be used in the asphalt composite at a ratio of up to but not exceeding 15% by weight

Tack coat shall be applied between lifts of pavement if the lower lift becomes cold or dirty.

PAVEMENT MARKINGS

All materials shall meet Section 633 of the standard specifications be applied per manufacture's recommendations.

All pavement markings for the striping and handicap symbols shall be completed using pavement marking paint. All striping for the parking lot shall be 4" wide yellow paint.

Handicap symbols shall be painted per ADA, Local code, and shall include a blue background and white symbol.

Handicap access aisles and/or painted parking lot islands shall be painted with 4" wide stripes 2.0' on center.

The perpendicular parking stall stripes shall not vary by more than 1.0 degree from being perpendicular to the center stripe or curb line. Variations of more than 1.0 degree will require obliteration and restriping.

The new pavement shall be allowed to age a minimum of 7 days prior to painting of pavement markings. Aging time less than this requires approval of the Engineer. Pavements shall be cleaned prior to painting. Damage to existing or new pavement markings caused by Contractor equipment and operations will require repainting of those damaged areas at no extra cost to the Owner.

Paint shall be applied at a rate of 16.9 gallons/mile for a 4" wide stripe.

REVEGETATION

All existing turfed areas disturbed by the construction shall be revegetated. See Landscaping Plans for seed mix and planting details. No additional payment shall be made for areas disturbed outside those shown on plans.

No extra payment will be made for subgrade and base course protection and maintenance.

Existing Topo	graphy and Survey Legend
▲ CP 1	Survey Control Point



Gate Valve Butterfly Valve Fire Hydrant Irrigation Control Valve Sprinkler Head Fiber Optic Line Telephone Line Telephone Manhole Communications Riser Overhead Utility Line Underground Power Line Power Pole Power Pole Anchor Traffic Signal Pole Light Pole Electrical Manhole Electrical Junction Box Electric Meter Gas Meter Gas Valve Down Spout Roof Drain Tree (deciduous) Plus Trunk Diameter Tree (coniferous) Plus Trunk Diameter Stump Plus Trunk Diameter Bush (deciduous) Bush (evergreen) Edge Of Trees Wire Fence Wood Fence Chain Link Fence Curb & Gutter **Detectable Warning Panel** Contour (1') Contour (5') Property/R.O.W. Line Easment Line Section Line

Proposed Surfacing Legend



Asphalt Pavement Asphalt Driveway PCC Pavement Concrete Driveway Gravel Surfacing Concrete Sidewalk Reinforced Concrete Sidewalk Sidewalk Ramp with Detectable Warning Pane Concrete Curb and Gutter Concrete

Curb and Gutter (Tilted) Concrete Fillet Concrete Fillet (Tilted)

Proposed Utilities Legend

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ΨΨ	Fire Hydrant
M	Gate Valve and Box
M	Curb Stop
۲	Post Indicator Valve (PIV)
${\bf M}$	Water Meter
▙▖▖▖ ▞▖▚▖▖▖	Water Main Fittings
N C	Cap or Plug
	Tracer Wire Box or Tracer Wire and Cathodic Test Station Boxes
W	Water Main
0	Sanitary Sewer Cleanout
S	Sanitary Sewer Manhole
TW)	Tracer Wire Box
s	Sanitary Sewer Main
\boxtimes	Storm Sewer Inlet (Sizes and Types Vary)
80750758 225250	Riprap
	Storm Sewer Pipe or Culvert
	Storm Sewer Pipe End Sections

------ FD ------ Foundation Drain Pipe

RD RD Roof Drain Pipe

_____ // Section Line

 γ_{16} Section Line

Note Regarding Existing Utilities

Unless otherwise noted, utility locations shown are based on field marked locations provided by South Dakota One Call, and where possible, field measurements. Existence and location of actual utilities may vary from that shown. Contractor must verify location of <u>all</u> utilities before excavation.

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Proposed Site Legend

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Sign Chainlink Fence Barbedwire Fence **Ornamental Fence** Common Utility Trench Underground Power Line Gas Main Storm Sewer Pipe or Culvert Parking Count Existing Parking Count

Demolition and Removals Legend

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Asphalt Pavement Removal Concrete Pavement Removal Gravel Surfacing Removal Landscape Removal Area Curb and Gutter Removal Gas Line Removal Water Line Removal Sanitary Sewer Line Removal Power Line Removal Fiber Optic Line Removal Telephone Line Removal Storm Sewer Pipe Removal Utility Abandonment In-Place

Grading Callout Legend





Removal	Callout
Callout No.	Descriptio
1	Abandon I Proposed
2	Relocate E Coordinate Plans
3	Remove E
4	Remove E
5	Do Not Dis
6	Do Not Dis or Sanitar
7	Remove E



Point Number	Easting	Northing	Point Elevation	Description
1	998405.0410'	226940.3990'	4811.90	5/8" Rebar
2	999567.9120'	226301.9190'	4713.43	5/8" Rebar
100	999068.4430'	226874.0220'	4773.70	SDDOT Control Point

Basis of coordinate system and elevations: GNSS static observation and OPUS Post Processing Solution.

utilities may vary from that shown. Contractor must verify location of <u>all</u> utilities before excavation.









Callout No.	Description
1	Extend 18" CMP 5' Plus Flared End (Safety End) FL = 4801.90
2	Extend 18" CMP 10' Plus Flared End (Safety End) FL = 4797.28
3	Redi-Rock Retaining Wall (0' - 8' Wall Height)
4	Solar Parking Lot Lights (See Specifications)
5	Paint ADA Symbol
6	Paint 4" Wide Yellow Stripes in Islands and Stall Stripes (Typ.)
7	Type B Curb & Gutter
8	Type R Curb & Gutter
9	6" Gravel Surfacing for Shoulders (1" Agg Base)
(10)	Relocated Power Meter & Transformer. Install New Secondary Power Service to Lights; See Electrical
(11)	Class B Riprap, 16'L x 12'W x 3' Deep, with Separation Fabric
(12)	Valley Gutter; See Detail
(13)	4" Asphalt Pavement; See Detail
(14)	Trolley Stop Sign and Information Sign; See Details
(15)	Taper Curb Height to Zero in 1' Mimimum
(16)	Stop Sign, R1-1
(17)	4" Pipe Bollard (Typ.)

370.00 Deadwood-New Parking Lots CiviltCAD/Plan Sheets/231370 Grading Plan.dwg - C6 Grading Plan - Thursday, July 18, 2024 9:08:44 AM

1370.00 Deadwood-New Parking Lots Civil/CAD/Plan Sheets/231370 Grading Plan.dwg - C7 Cross Sections - Thursday, July 18, 2024 9:08:47 AM

) Deadwood-New Parking Lots Civil(CAD)Plan Sheets\231370 Grading Plan.dwg - C9 Cross Sections - Thursday, July 18, 2024 9:08:5

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- DRAINAGE, WITH RIDGES AND DEPRESSIONS REMOVED. ALL AREAS SHALL BE FREE DRAINING.
- HYDROSEEDED PER SPECIFICATIONS

- OCTOBER 1 AND NOVEMBER 1. ADDITIONAL SEEDING MAY BE REQUIRED TO AND COMPLETED OPERATIONS.
- ALL ROAD CUTS/FILLS AND ANY DISTURBED AREAS DUE TO UTILITY OR GENERAL CONSTRUCTION. ALL DISTURBED AREAS STEEPER THAN 5:1 SHALL BE COVERED WITH A PROTECTIVE MATTING AFTER HYDROSEEDING.
- MULCH, @ 2,000 LBS/ACRE,INCREASE TO 2,500 LBS/ACRE FOR SLOPE STABILIZATION AREAS. STABILIZING AGENT SHALL BE "SENTINEL" BINDING AGENT TO BE USED ONLY ON SLOPES GREATER THAN 25%. USE 100 LBS/ACRE.
- SUPPLIED IN A FORM WHICH WILL READILY DISPERSE INTO THE SLURRY.
- INGREDIENTS OR OTHER FACTORS THAT INHIBIT PLANT GROWTH OR
- DISPLAYING LABEL WHICH GUARANTEES FREEDOM FROM UNOPENED CONTAINERS, DISPLAYING LABEL WHICH GUARANTEES FREEDOM FROM NOXIOUS WEED SEEDS, A MINIMUM OF 85% PURE LIVE SEED, AND A MINIMUM GERMINATION RATE OF 85%.
- MOTION, ALLOWING THE FIBRES TO BUILD ON EACH OTHER, AND CREATING A ALL OF THE MATERIAL HAS BEEN APPLIED AND THE SPECIFIED RATES HAVE BEEN ACHIEVED.

			PLANTING NOTES		
SYMBOL	DESCRIPTION	QUANTITIES*	GENERAL PLANTING REQUIREMENTS 1. SEE DETAIL SHEET FOR LANDSCAPE AND PLANTING DETAILS & SEE PROJECT	9. IF SPECIFIED MATERIAL IS NOT PROOF OF NON-AVAILABILITY A	
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			HOURS PRIOR TO ANY EXCAVATION FOR MARKOUTS OF EXISTING UNDERGROUND	PLANTING	
			 FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO ANY UTILITIES CAUSED BY HIS/HER PROJECT OPERATIONS. NO CONSTRUCTION SHALL 	11. QUANTITIES SHOWN IN THE PLA THE CONTRACTOR & FOR OWN FOR PROVIDING THE QUANTITY	
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			COMMENCING WORK.	DESIGNATED PER THESE NOTE	
			7. CONTACT THE LOCAL UNDERGROUND UTILITY SERVICES FOR UTILITY LOCATION	18. REMOVE ENTIRE WIRE CAGE FF	
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	FMG ENGINEERING 3700 Sturgis Road Rapid City, SD 57702 605.342.4105 • fmgengineering.com
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5	Revision / Date Sheet Name: PLANTING-DETAILS
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