Technical Specifications

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INTRODUCTION

PART 1 - GENERAL

1.01 SPECIAL PROVISIONS

The following Special Provisions supplement the Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction", latest edition, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highway", the" Manual of Test Procedures for Materials", in effect on the date of invitation for bids.

1.02 LOCATION OF THE PROJECT

The Project is located on the north side of US Route 6 and west of McLindon Road in the Village of Channahon, and unincorporated Grundy County, IL. Reference the Overall Site Plan for the construction limits.

1.03 DESCRIPTION OF THE PROJECT

This work consists of site clearing, drain tile removal, erosion control protection installation, topsoil removal and placement, earth excavation and placement, stormwater management construction, storm sewer installation, seed and plug installation and seed establishment as well as all other work necessary to complete the improvements as showing in the plans and described herein. All work is to be completed within the limits shown on the Construction Drawings. Crops outside of the project limits are to remain undisturbed. Contractor to maintain positive drainage through the site.

SECTION 01500 MOBILIZATION

PART 1 - GENERAL

1.04 DESCRIPTION OF WORK

- A. This section specifies requirements for mobilization, this shall include:
 - 1. All preparatory work within and outside the work area, site preparation and construction and maintenance of access routes.
 - 2. All costs related to establishing construction office space for the Contractor and all Subcontractors.
 - 3. Communication and other temporary utilities which may be required.
 - 4. Security on site to guard the materials, tools, equipment, vehicles, and fencing, as necessary, etc.
 - 5. The supply and transportation to the site of construction equipment, cranes, and workforce as required for the performance of the Work.
 - 6. Costs relating to conforming to environmental restrictions.
 - 7. Upon completion of the work, restoration of US Route 6, if necessary, to its original condition, all to the approval of the Engineer and IDOT.
 - 8. Payment for construction permits not obtained by the Railway.
 - 9. All cost associated with the preparation of project and work window schedules.
 - 10. All costs associated with the implementation of the safety and environmental guidelines and any other safety and environmental requirements and or restrictions.
 - 11. All costs associated with preparing and/or coordinating shop drawing submittal requirements and erection procedure submittal requirements.

- 12. Any administrative costs not directly related to the performance of the items.
- 13. All costs associated with the organization of the site and the final restoration and final clean-up of the site upon completion of the work.
- 14. All costs incurred to supply a set of as-built drawings listed showing details of modifications performed during the course of this Contract. These drawings shall be submitted to the Engineer.
- 15. The establishment and maintenance of all access road, including right of access permits required from the adjacent land owner(s), shall be the sole responsibility of the contractor.
- 16. All other costs which are not associated with other specific work items.
- 17. Payment for Mobilization shall also include compensation for all construction permits, insurance, bonding requirements and testing.

PART 2 - PRODUCTS (Not used)

PART 3 - EXECUTION (Not used)

PART 4 - MEASUREMENT AND PAYMENT

- 4.01 MEASUREMENT
 - A. No separate measurement shall be made for Mobilization.

4.02 PAYMENT

- A. The Work covered in this section shall be included in the contract lump sum price as shown in the Schedule of Prices for the following:
 - 1. Mobilization
 - a. 50% will be paid for initial Mobilization at the time of first pay application, 50% will be paid for at project completion. Total mobilization and demobilization shall not exceed 10% of the total amount of tender.

Chicago Logistics Hub Early Earthwork Grundy County, IL ***END OF SECTION***

Chicago Logistics Hub Early Earthwork Grundy County, IL

SECTION 02040 EXISTING UTILITIES

PART 1 – GENERAL

- 1.01 SECTION INCLUDES
 - A. This Section specifies the requirements for locating and protecting existing utilities.
- 1.02 RELATED SECTIONS
 - A. Section 02100 Site Preparation
 - B. Section 02200 -

Earthwork

PART 2 - PRODUCTS

- 2.01 DESCRIPTION
 - A. Location and coordination with Owners of the utilities within the Contract Limits as shown on the plan and/or as directed by the ENGINEER.

PART 3 - EXECUTION

3.01 UTILITY CONTACTS

- A. The Contractor shall call JULIE (1-800-892-0123) and contact the various utility owners prior to any construction activities. The Contractor shall request a site visit to locate the various utilities. The Contractor shall advise the Engineer of any utilities that will require relocation for the proposed construction.
- B. For all railroad utilities, including signals CONTRACTOR shall email <u>CNUtilities_US@cn.ca</u>. The CONTRACTOR shall request a site visit to locate the various utilities. Requests for railroad utility locates must be made 10 days before excavation begins. The CONTRACTOR shall promptly advise the ENGINEER of any utilities which will require relocation for the proposed construction not shown on the plans.

C. It is, however, the Contractor's responsibility to confirm or establish the existence of <u>ALL</u> utility facilities and their exact locations, whether contained in the data submitted by these agencies or not, and to safely schedule all utility relocations.

3.02 UTILITY LOCATION

A. The Contractor shall make his own investigation to determine the existence, nature and exact location of all utility lines and appurtenances within the limits of this improvement. The cost of this Work will be considered incidental to the Contract.

3.03 DAMAGE DURING CONSTRUCTION

A. Due care should be exercised by the Contractor to avoid damaging any power, telephone, gas, water or sewer lines near the construction operations. Any utility damaged by the Contractor during construction of the improvement shall be repaired at the Contractor's expense and to the satisfaction of the utility company(s) and the Engineer.

PART 4 – MEASUREMENT AND PAYMENT (Not used)

SECTION 02100 SITE PREPARATION

PART 1 – GENERAL

- 1.01 SECTION INCLUDES
 - A. Removal and disposal of all surface debris not to be included in the proposed facility. Surface debris shall include but not be limited to shrubs, bushes, crops, trees, drain tiles, storm sewer, stones, fence and all other items not to be incorporated into the proposed work. Removal shall be performed to the limits as detailed on the Plans for the proposed work.

1.02 REFERENCES

A. Except as modified herein, the work shall conform to the applicable portions of the Standard Specifications, Sections 201 through 214 of the IDOT Standard Specifications for Road and Bridge Construction, and Supplemental Specifications and Recuring Special Provisions, latest editions.

1.03 RELATED SECTIONS

- A. Section 02040 Existing Utilities
- B. Section 02200 Earthwork
- C. Section 02270 Erosion Control

1.04 GENERAL REQUIREMENTS

- A. The Contractor shall submit a Phasing Plan for the work. It is intended that all earthwork is to remain on site. No soil is to be hauled onto or off of the site.
- B. The Contractor shall remove and dispose of non-earthwork materials off-site. Disposal shall be made at a legal disposal site. The Contractor shall provide written authorization to the Engineer for the use of that location.

C. Prior to beginning any demolition operations, Contractor shall determine the connect/disconnect status of utility service and make all necessary arrangements and obtain all permits for termination of service.

1.05 APPLICABLE CODES

- A. Work shall be performed in accordance with the latest edition and addenda thereto of the following:
 - Applicable provisions of the Occupational Safety and Health Standards of the U.S. Department of Labor.

2. IDOT Standard Specifications for Road and Bridge Construction, and Supplemental Specifications and Recuring Special Provisions, latest editions.

1.06 WORK BY OTHERS

A. Other contractors, the Railroad, or utility companies may be performing work adjacent to the locations where site preparation is to be carried out. Contractor is responsible to coordinate all necessary construction activities with the work of others in coordination with the Engineer.

1.07 PHASING PLAN

- A. Work shall be performed in accordance with an approved construction phasing plan coordinated with the Engineer.
- B. Site Preparation work shall not interfere with roadway access or maintenance operations by the Railroad.

1.08 JOB CONDITIONS

- A. Explosives shall be prohibited.
- B. Positive drainage shall be maintained at all times.
- C. Adjacent crops to be protected.
- D. Existing utilities to remain shall be protected.
- E. No open fires shall be allowed.

PART 2 – PRODUCTS (Not used)

Chicago Logistics Hub Early Earthwork 02100-3 Grundy County, IL

PART 3 – EXECUTION

- 3.01 Site Clearing
 - A. Site Clearing shall be performed in a systematic manner.
 - B. Large holes or depressions shall be filled using fill material approved by the Engineer.

PART 4 - MEASUREMENT AND PAYMENT

- 4.01 MEASUREMENT
 - A. The Drain tile Removal/Disablement Work of this Section will be measured for payment. Other site clearing elements will be included as part of the earthwork.
- 4.02 PAYMENT
 - A. The Work covered in this section shall be paid for at the contract unit price as shown in the Schedule of Prices for the following:
 - 1. Draintile Removal/Disablement

SECTION 02200 EARTHWORK

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. This Section specifies the requirements for earthwork, including excavation of soil, rock, miscellaneous concrete, abandoned storm sewer, culverts, embankment, backfill, borrow, removal and replacement of unsuitable material as illustrated on the engineering plans. The cost of topsoil removal and stockpiling, all labor, equipment, material, dewatering, temporary shoring, and all else required for complete grading shall be included in the contract cost.
- B. Work shall include excavation and stockpiling of soil material as shown on the plans.
- C. Soil removal and stockpiling will be directed by the OWNER or OWNERS REPRESENTATIVE.

1.02 REFERENCES

- A. Except as modified herein, the work shall conform to the applicable portions of the Standard Specifications, Sections 201 through 214 and Sections 301 & 302 of the IDOT Standard Specifications for Road and Bridge Construction, and Supplemental Specifications and Recuring Special Provisions, latest editions.
- B. AREMA Manual Chapter 1 for railroad use areas and Garding Standards.

1.03 RELATED SECTIONS

- A. Section 02040 Existing Utilities
- B. Section 02100 Site Preparation
- C. Section 02270 Erosion

Control PART 2 – PRODUCTS

2.01 AVAILABLE PRODUCTS

A. Products shall be as given in Section 1.02, above, except as herein modified.

2.02 SUITABLE BACKFILL MATERIAL

- A. Embankment material withing roadway, driveway, building and pad tracks shall be compacted to a minimum of 95% of maximum density in accordance with ASTM Specification D1557 (Modified Proctor Method), or to such other density as may be determined appropriate by the soils engineer.
- B. All pavement subgrades shall meet the requirements of the IDOT Standard Specifications and as determined by the soils engineer.

PART 3 - EXECUTION

3.01 EXECUTION

- A. Except as herein modified, execution shall conform to the Sections listed in Item 1.02, above.
- B. CONTRACTOR shall contact the utility company for shutoff/removal of all utilities prior to starting any construction activities.
- C. Excavation activities shall be conducted in a manner to maintain integrity of the work and protection of workers and the public.
- D. CONTRACTOR shall complete excavation to elevations as shown on the drawings.
- E. Free Product may be encountered in the excavation. Free product shall be removed from the excavation and properly tested and disposed of by CONTRACTOR in accordance with applicable rules and regulations.
- F. Soil samples will be collected by the OWNER'S REPRESENTATIVE as part of the work. CONTRACTOR shall assist the OWNER'S REPRESENTATIVE in collection of these samples.
- G. CONTRACTOR shall be responsible to protect existing structures, roads, sidewalks against damage from excavation activities. CONTRACTOR shall protect and stabilize excavation in accordance with OSHA requirements.
- H. Grading tolerance in mass graded areas should be within +/-0.1 feet.
- I. It is intended that all earthwork is to remain on site. No soil is to be hauled onto or off of the site.

3.02 UNSUITABLE EXCAVATION

A. Where unsuitable material exists in embankment subgrade, the CONTRACTOR shall either undercut the area to soil approved by the OWNER and suitable material shall be placed and compacted or a combination of undercutting and installation of geogrid shall be utilized. CONTRACTOR shall notify the OWNER immediately upon discovering unsuitable material. OWNER will advised CONTRACTOR how to proceed and no further excavation shall occur without the OWNERS approval.

3.03 POROUS GRANULAR EMBANKMENT

- A. The porous granular material shall be placed in one lift when the total thickness to be placed is 600 mm (2 feet) or less or as directed by the Engineer. Each lift of the porous granular material shall be rolled with a vibratory roller meeting the requirements of the Standard Specifications to obtain the desired keying or interlock and compaction. The Engineer shall verify that adequate keying has been obtained.
- B. Construction equipment not necessary for the completion of the replacement material will not be allowed on the undercut areas until completion of the recommended thickness of the porous granular embankment subgrade.
- C. Upon completion of the Porous Granular Embankment a geotextile fabric shall be placed over the embankment to minimize migration of particles from the overlaying embankment material.

3.04 STOCKPILES

- A. All contaminated materials will be stockpiled on-site at locations approved by OWNER'S REPRESENTATIVE.
- B. Suitable backfill material, as approved by ENGINEER shall be stockpiled on-site at locations approved by OWNER'S REPRESENTATIVE.
- C. Stockpiles shall be protected from erosion as specified in Section 02270 EROSION CONTROL. The sides and tops of stockpiles shall be shaped to avoid ponding of rainwater.
- D. Stockpile in sufficient quantities to meet project schedule and requirements.

- E. Separate differing materials with dividers or stockpile apart to prevent mixing.
- F. Protect stockpiled materials from contamination with foreign matter.
- G. Stockpiling shall be accomplished in a manner that does not interfere with on-site or off-site drainage patterns and/or storage/flow capacities of surface water systems.
- H. Stockpiling material shall be spread out and not placed into piles. Exact locations for material to be per the plan details and by the OWNER'S REPRESENTATIVE.
- I. Stockpiled material shall be free of timber and all concrete shall be less than 4-inches in size.
- 3.05 COMPACTION
 - A. Compactions shall be in accordance with the Standard Specifications except as herein modified.
 - 1. Tracks and Roads:
 - a. Layers shall be individually compacted to a minimum of 95 percent (95%) of maximum density as defined and measured by ASTM D1557-66T Method C.
 - b. No fill shall be placed, spread, or compacted while the material is frozen, thawing, or during unfavorable weather conditions.
 - 2. Green Space Areas:
 - a. Fill material shall be placed in layers not exceeding one foot in thickness and compacted by several passes of ordinary earth moving equipment, and to the satisfaction of the Engineer.
 - b. Compaction in non-structural fill areas should be compacted to 85% modified proctor.
 - 3. Naturalized Detention Areas
 - a. In addition to the topsoil specifications provided in the IDOT Standard Specifications the contractor will be required to respread topsoil in the naturalized detention basins with low ground pressure equipment. The proposed equipment list shall be submitted to the engineer for approval prior

to mobilization. Generally, LGP is defined as less than 5PSI but 4PSI or lower would be preferred.

3.06 FIELD QUALITY CONTROL

- A. CONTRACTOR shall perform backfill density testing in accordance with Section 03071 Material Testing.
- B. Testing agency will test compaction of soils in place according to ASTM Specification D1557 (Modified Proctor Method). Tests will be performed as directed by the OWNER'S REPRESENTATIVE.
- C. CONTRACTOR is responsible for meeting the stormwater storage requirements in the ponds. The ponds surveyed upon completion to verify that volume requirements are met.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT

The Work of this Section will be measured for payment in CY. Site Grading will be paid for by ACRE...

- 4.02 PAYMENT
 - A. The Work covered in this section shall be paid for at the contract unit price as shown in the Schedule of Prices for the following:
 - 1. Topsoil Strip and Stockpile (1.25')
 - 2. Topsoil respread & Non-structural Fill
 - 3. Clay Excavation
 - 4. Clay Placement
 - 5. Site Grading

SECTION 02270 EROSION CONTROL

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. This Work shall consist of furnishing, installing, and constructing of all erosion control measures. These measures will include but not be limited to silt fence, inlet and flared end section sediment traps, erosion control blanket, coir logs and a construction entrance in order to minimize the infiltration of construction materials into the surrounding ditches, and waterways. This Work shall be performed in areas as shown on the Plans and as directed by the Engineer.
- B. The Contractor shall furnish all labor, materials, tools and equipment necessary to pro- vide proper erosion controls in compliance with Section 280 of the IDOT Standard Specifications for Road and Bridge Construction, and the Illinois Environmental Protection Agency's Illinois Urban Manual.

1.02 RELATED SECTIONS

- A. Section 02100 Site Preparation
- B. Section 02200 Earthwork

1.03 REFERENCES

- A. Except as modified herein, the Work shall conform to Sections 280 of the Standard Specifications.
- B. Illinois Environnemental Protection Agency's Illinois Urban Manual

PART 2 – PRODUCTS

2.01 PRODUCTS

A. All products shall be in accordance with the "Illinois Environmental Protection Agency's Illinois Urban Manual", current edition and the applicable portions of the Standard Specification.

PART 3 – EXECUTION

3.01 EROSION CONTROL

Chicago Logistics Hub Early Earthwork 02270-1 Grundy County, IL A. The contractor will comply with all IEPA and NPDES requirements.

B. The contractor will comply with any special requirements outlined in any of the environmental permits required for construction.

PART 4 – MEASUREMENT AND PAYMENT

- 4.01 MEASUREMENT
 - A. The Work of this Section will be measured for payment.

4.02 PAYMENT

- A. The Work covered in this section shall be paid for at the contract unit price as shown in the Schedule of Prices for the following:
 - 1. Silt Fence
 - 2. Inlet and FES Sediment Traps
 - 3. Erosion Control Blanket
 - 4. Coir Logs
 - 5. Construction Entrance

SECTION 02721 PIPE CULVERTS, STORM SEWERS AND APPURTENANCES

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. This section specifies requirements for furnishing and installing the storm sewer system, as specified herein and illustrated on the engineering drawings. The Work under this section shall include furnishing all labor, materials, tools, equipment and incidentals required to furnish and install pipe culverts, storm sewer pipes, structures and fittings. All fittings, coupling bands, grades, flat slab tops, adjusting rings, foundation preparation, frames and grates, pipe camber and end treatment; all shipping and handling, including special permits if required; all trench backfill up to the top of trench and other appurtenant items required for this Work are included in this item.

1.02 REFERENCES

- A. All materials, fabrication, inspection, testing and installation procedures shall conform to the applicable provisions of the following codes except as modified herein:
 - 1. Standard Specifications, Division 500, Section 209 and 604.
 - 2. American Railway Engineering and Maintenance of Roadway Association (AREMA) "Manual for Railway Engineering", Part 4, Culverts.
 - 3. All work associated with pushing pipe under the railroad track shall conform to the applicable guidelines and standards as noted in Chapter 1, Part 5 of the 2012 "Manual for Railway Engineering", published by the American Railway Engineering and Maintenance of Roadway Association (AREMA). In case of conflict between Standard Specifications and the AREMA Manual, the AREMA Manual shall govern.

1.03 STANDARDS

A. For inlet and manhole structure see IDOT Highway Standards and the details on the engineering drawings.

1.04 SUBMITTALS

A. Submittals shall include the following:

- 1. Shop Drawings: The Contractor shall verify dimensions and the culvert layout prior to preparation of Shop Drawings. The Contractor shall submit Shop Drawings for structures, connections, including, if necessary, concrete collars, locations of field splices, attachments, installation plans and types of materials used. The Contractor shall review all Shop Drawings and verify all dimensions and procedures. The Contractor shall submit Shop Drawings to the Engineer for his review. Fabrication or ordering of materials shall not commence until approval is received from the Engineer. The Contractor shall direct the Shop Drawing preparer to make all corrections and modifications, as directed by the Engineer, and resubmit the Drawings to the Engineer. The Engineer. The Contractor of the Shop Drawings in no way shall relieve the Contractor of responsibility for fabrication and fit in the field.
- 2. Product data: The Contractor shall submit all product data, manufacturer's literature and printed installation recommendations.

1.05 RELATED SECTIONS

A. Section 02270 – Erosion

Control

B. Section 02200 – Erosion Earthwork

PART 2 – PRODUCTS

- 2.01 STORM SEWER SYSTEM
 - A. Storm Sewers
 - 1. Storm Sewer materials for reinforced concrete pipe shall be in accordance with Section 550 of the Standard Specifications.
 - 2. Storm Sewer materials for stainless steel pipe shall conform to ASTM A312-Grades TP 304 or TP316.
 - B. Catch Basin, Manholes and Inlets
 - 1. Catch Basin, Manhole and Inlet materials shall be in accordance with Section 504 of the Standard Specifications.
 - C. Manhole Covers and Inlet Cover

1. Manhole Covers and Inlet Cover materials shall be in accordance with Section 604 of the Standard Specifications.

2.02 TRENCH BACKFILL

A. Trench backfills shall meet the requirements of Sections209 of the Standard Specifications.

PART 3 – EXECUTION

3.01 STORM SEWERS

- A. Storm sewers shall be installed per Section 550 of the Standard Specifications.
- B. Catch Basin, Manholes and Inlets
 - 1. Catch Basin, Manhole and Inlet shall be installed per Section 504 of the Standard Specifications.
- C. Manhole Covers and Inlet Cover
 - 1. Manhole Covers and Inlet Cover materials shall be installed per Section 604 of the Standard Specifications.

PART 4 – MEASUREMENT AND PAYMENT

- 4.01 MEASUREMENT
 - A. The Work of this Section will be separately measured for payment. Pipe will be measured by FOOT; Structures will be measured by UNIT and trench backfill will be measured by CY.
- 4.02 PAYMENT
 - A. The Work covered in this section shall be paid for at the contract unit price as shown in the Schedule of Prices for the following:
 - 1. Storm Sewer, RCP (12", 15", 18", 24", 27", 30", 36")
 - 2. Storm Sewer, SSP (12", 15", 18", 24", 27", 30", 36") 0.50" Wall Thickness

- 3. 4' Catch Basin/Manhole
- 4. 5' Catch Basin, 7' Catch Basin
- 5. 5', 6', 8' Storm Manhole
- 6. Flared End Section w/Grate (12", 15", 18", 24", 27", 36")
- 7. Trench Backfill

SECTION 03070 CONSTRUCTION STAKING AND AS-BUILT PLANS

PART 1 – GENERAL

- 1.01 SECTION INCLUDES
 - A. This section specifies requirements for construction staking necessary to complete all work illustrated on the construction documents.
 - B. This section specifies the requirements for As-built construction plans
- 1.02 REFERENCES
 - A. N/A
- 1.03 RELATED SECTIONS
 - A. Section 02100 Site Preparation
 - B. Section 02200 Earthwork
 - C. Section 02721 Pipe Culverts, Storm Sewers and Appurtenances

PART 2 – GENERAL

- 2.01 MATERIAL
 - A. N/A

PART 3 - EXECUTION

- 3.01 Contractor shall furnish all construction staking necessary to complete the Work illustrated on the construction drawings.
- 3.02 Upon completion of the work the Contractor shall provide CN a red-lined markup of the construction drawings (as-built plans) detailing the actual completed construction work for the railroad's records. The marked-up set shall be legible and of sufficient quality to scan into the owner's records. Plans must be submitted on a minimum paper size of 24x36.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT

A. The Work of this Section will not be measured for payment.

4.02 PAYMENT

A. The Work shall be considered incidental to the overall contract.

SECTION 03071 MATERIAL TESTING

PART 1 – GENERAL

- 1.01 SECTION INCLUDES
 - A. This section specifies requirements for material testing required during construction in order to provide quality control documentation for the Owner.
- 1.02 REFERENCES
 - A. Applicable portions of the Standard Specifications
- 1.03 RELATED SECTIONS
 - A. Section 02200 Earthwork

PART 2 - GENERAL

- 2.01 MATERIAL TESTING
 - A. Contractor shall utilize a material inspection sub consultant/subcontractor not affiliated with the contractor organization to perform and provide the quality control testing documents.
 - B. Material testing firm to be utilized shall be approved by Engineer prior to any testing of material.
 - C. Material testing firm shall provide Engineer with documentation outlining their inhouse quality control/assurance program.
 - D. Material Testing lab shall be AASHTO R18 accredited for soils, concrete and asphalt testing.

PART 3 - EXECUTION

- 3.01 Material Testing Project Manager shall attend a pre-construction meeting.
- 3.02 Testing
 - A. Observe and test subgrade soils during site preparation to observe that unsuitable soils have been removed prior to new fill being placed.

- B. Observe proof rolling of pavement subgrade and base course before bituminous or concrete pavement is placed.
- C. Perform laboratory gradation tests and Proctor tests on proposed fill material for subgrade backfill and pavement aggregate base.
- D. Perform field density tests by the nuclear method to determine the moisture content and degree of compaction of fill materials.
- E. Perform field testing to determine the slump, entrained air content, and temperature of fresh concrete, cast concrete test cylinders, and field cure the cylinders, pickup and transport test cylinders to laboratory.
- F. Perform laboratory moist curing and compressive strength testing of the concrete cylinders at seven days and 28 days, and provide report documentation.
- G. Perform field density testing of bituminous mat placement to determine density.
- H. Sample and test bituminous pavement in accordance with the Standard Specification.
- I. Prepare daily field reports and monthly testing progress reports summarizing the testing for that period.
- J. Engineer shall have final authority on what material will be tested and at what location.
- 3.03 Reports
 - A. Daily reports shall be completed for each day on site. The reports shall present available test results, along with comments regarding observations.

PART 4 – MEASUREMENT AND PAYMENT

- 4.01 MEASUREMENT
 - A. The Work of this Section will not be measured for payment.
- 4.02 PAYMENT
 - A. The Work shall be considered incidental to the overall contract.