

**ADDENDUM NO. 2
TO
NC DATA CAMPUS – PHASE B
CATAWBA COUNTY, NORTH CAROLINA**

This Addendum No. 2 is issued this **25th day of February, 2016** to all parties who hold a set of Bidding Documents for the project entitled “NC Data Campus – Phase B, Catawba County, North Carolina”. This Addendum No. 2 shall become part of the Contract Documents and its receipt acknowledged on the Bidding Documents at the time of bidding.

REMINDERS

1. Bidders should refer to the McGill Associates bid line for current plan holders’ lists and other pertinent information regarding the bid. The website address is www.mcgillbidline.com.
2. The bid opening date is scheduled for 2:00 pm local time on March 1st, 2016 at the Catawba County Government Center (100A South West Boulevard, Newton, North Carolina 28658) in the second floor meeting room.

CLARIFICATIONS

1. **Deleted Site Drainage Quantities**

As discussed at the pre-bid meeting, changes to the drainage systems for each building pad have been made to eliminate the need for the drainage system to extend to the middle of each pad. Please refer to the enclosed revised plan sheets and updated Bid Schedule.

2. **Fire Hydrant Color**

All fire hydrants installed on the project shall be painted yellow according to the City of Conover standards. Bidders are directed to the specification revisions associated with Addendum No. 2.

3. **Fire Hydrant Storz Connection**

All fire hydrants installed on the project shall be equipped with a 5” Storz Connection according to the City of Conover standards. Bidders are directed to the detail drawing revisions associated with Addendum No. 2.

4. **Concrete Sidewalk for Greenway**

The revised Bid Schedule issued with Addendum No. 2 includes an additional sidewalk bid item (No. 17a) for sidewalk to be added to the project which will be directed in the field by the Owner and Engineer.

5. **Payment for Unsuitable Material**
Unsuitable material shall be wasted onsite. Unsuitable material wasted as part of undercut excavation as defined by the contract documents shall be paid at the contract unit price for Undercut. All other unsuitable material, not defined as undercut shall be paid for under the lump sum price for Earthwork.
6. **RCP Pipe**
RCP pipe joints shall utilize a rubber O-ring in accordance with the contract documents and NCDOT 1032-9.

CHANGES TO THE CONTRACT SPECIFICATIONS

7. **Bid Form**
Several Bid Item Quantities have been revised. Replace the Bid Schedule from Addendum No. 1 with the one enclosed with Addendum No. 2.
8. **Modified Agreement Between Owner and Contractor**
In Article 8.01 A.1, replace “January” with “February”
9. **Section 013000 Measurement & Payment**

Insert the following Work Items:

Item 12a – Seeding, Fertilizing, and North American Green SC150 Permanent Ditch Matting

The quantity of North American Green SC150 Matting, including the associated seeding and fertilizing to be paid for, will be the actual square yards of matting installed in permanent ditches 1 through 7 as measured along the surface of the ground at locations per the Contract Drawings or as directed by the Engineer at the contract unit price per square yard. The unit price will be the full compensation for all work including, but not limited to material, equipment, and labor for a complete installation as described in these specifications and/or shown on the Drawings.

Item 12b – Grass Swale

The quantity of Grass Swale to be paid for will be the actual linear feet of grass swales 1 through 6 installed as measured in linear feet along the surface of the ground at locations per the Contract Drawings. The unit price will be the full compensation for all work including, but not limited to, excavation, fine grading, SC250 matting, topsoil, seeding and fertilizing, straw wattles, material, equipment, and labor for a complete installation as described in these specifications and/or shown on the Drawings.

Item 13a – Yard Inlet

This item of work shall include furnishing and installing yard inlets at locations shown on the Contract Documents. Bid price shall include excavation, installing pre-cast concrete catch basin with steps, installation of concrete top with four sided opening, manhole lid access (offset for steps), and backfill and compaction. Storm drainage pipes shall be cut flush with the inside face of the catch basin walls with the gap between pipe and catch basin wall to be grouted smooth. Inverts shall be poured with concrete to provide smooth flow from pipe to pipe and to prevent standing.

Payment for this item shall be the actual number of yard inlets installed and accepted by the Engineer.

10. **Section 013000 Measurement & Payment**

In Article 013000.4, replace work Item 3 – Erosion Control Measures in its entirety with the following:

Item 3 – Erosion Control Measures

Work included in this line item of payment shall consist of all erosion control measures as shown on the plans or additional measures necessary to remain in compliance.

The quantity of erosion control measures will be paid for at the contract lump sum price in accordance with the Contract Documents. The lump sum price will be full compensation for all labor, equipment, and materials necessary for work associated with erosion control measures, including but not limited to, furnishing and installing silt fence, skimmer sediment basins and all associated appurtenances (including rip rap outlet protection for skimmer discharge), rip rap emergency spillway with geotextile fabric underlayment, inlet protection, construction entrances, temporary ditches, straw wattles, temporary slope drains, temporary culverts, etc. The lump sum price shall also include temporary ditches not shown on the drawings that may be necessary to provide positive drainage to the proposed skimmer basins until the site is stabilized. Maintenance during construction of erosion control measures, as well as removal and restoration of surfaces shall also be included in the lump sum price. Excavation for the proposed skimmer basins will be paid under the Earthwork lump sum bid item. Excavated material from skimmer basins shall be used for fill material.

11. **Section 013000 Measurement & Payment**

In Article 013000.4, replace work Item 4 – Earthwork in its entirety with the following:

ITEM 4 – EARTHWORK

Work included in this line item of payment shall consist of all earthwork associated with the project, including but not limited to, excavating, transporting, compacting, fine grading for building pads, roadways, drainage features/permanent ditches, and visual safety barriers for existing utilities. Contractor is responsible for all borrow material to be found on-site or disposal on-site of any surplus material as necessary, as directed by the Engineer, to achieve grades shown on the Contract Drawings.

The quantity of grading will be paid for at the contract lump sum price in accordance with the Contract Documents. The lump sum price will be full compensation for all labor, equipment, and materials necessary for work associated with earthwork, including but not limited to proofrolling subgrade, excavation (including excavation for skimmer basins), backfill, compaction, and conditioning of fill soil for proper moisture content (addition of water/drying soil on site), grading of permanent ditches shown by contours or line type on the Drawings, wasting of unsuitable material not defined as undercut onsite and fine grading/subgrade prep. Soils onsite to be used for fill with moisture content above optimum will not be considered unsuitable. Additional payment for drying or importing offsite soil to be used in lieu of the onsite material for the purpose of expediting the work will not be made by the Owner. The lump sum price shall also include stock piling and re-spreading of topsoil removed during grubbing operations on permanent slopes or in non-structural areas. Excess topsoil shall be placed in a location onsite as determined by the Owner and Engineer.

Protection of existing utilities with visual safety barriers shall be incidental to the Earthwork lump sum bid price and no additional compensation shall be made by the Owner.

12. **Section 013000 Measurement & Payment**

In Article 013000.4, Work Item 4 – Earthwork, in the second paragraph replace “sediment basins” with “skimmer basins”.

13. **Section 013000 Measurement & Payment**

Insert the following Work Items:

Item 17a – Concrete Sidewalk for Greenway

The quantity of “Concrete Sidewalk for Greenway” to be paid for will be the actual square yards measured along the outside edge of concrete that have been incorporated into the completed and accepted work. Locations are not shown on the Contract Documents. This work item also includes a handicapped ramp and shall be constructed in a manner consistent with Contract Drawing details.

The unit price will be full compensation for all labor, equipment, and materials necessary to install concrete sidewalk and a handicap ramp, including but not limited to: minor excavation and preparation of subgrade, placement and compaction of aggregate base course, formwork, reinforcement, concrete placement, handicap ramp accessories, finishing, curing, joint installation, joint sealer, and fine grading.

14. **Section 312000**

The second and third sentences in Article 2.1 A.1 shall be revised as follows:

“At the discretion of the Engineer, topsoil within the area to be stripped shall be stockpiled in a convenient area, selected by the Engineer, for later use and/or disposal. All topsoil shall be evaluated by the Engineer as to its suitability.”

15. **Section 312010**

The first sentence in Article 2.01 A.1 c. shall be revised as follows:

“Undercut Excavation: Excavation of unsuitable, residual soil below the planned grading limits as determined by the Engineer.”

16. **Section 332660**

Revise Article 2.11 C as follows: replace the words “All hydrants shall be painted the manufacturer’s standard red unless otherwise specified” with “All hydrants shall be painted the City of Conover’s standard yellow”.

CHANGES TO THE CONTRACT DRAWINGS

1. **Sheet C-106**

Replace Sheet C-106 with the one attached to Addendum No. 2. Drawing was revised to show the replacement of drainage piping and structures on building lots 1, 2, and 3 with grass swales.

2. **Sheet C-107**

Replace Sheet C-107 with the one attached to Addendum No. 2. Drawing was revised to show the grading and drainage changes made to building lots 1 and 2.

3. **Sheet C-108**

Replace Sheet C-108 with the one attached to Addendum No. 2. Drawing was revised to show the grading and drainage changes made to building lot 3.

4. **Sheet C-109**

Replace Sheet C-109 with the one attached to Addendum No. 2. Drawing was revised to show the grading and drainage changes made to building lots 1 and 2.

5. **Sheet C-110**

Replace Sheet C-110 with the one attached to Addendum No. 2. Drawing was revised to show the grading and drainage changes made to building lot 3.

6. **Sheet C-112**

Replace Sheet C-111 with the one attached to Addendum No. 2. Drawing was revised to show the grading and drainage changes made to building lots 1 and 2.

7. **Sheet C-113**

Replace Sheet C-113 with the one attached to Addendum No. 2. Drawing was revised to show the grading and drainage changes made to building lot 3.

8. **Sheet C-114**

Replace Sheet C-114 with the one attached to Addendum No. 2. Drawing callouts were modified for clarification in order to revise erosion control matting type. An additional callout was added to show general location of Planting Shelf and to reference Planting details on C-508.

9. **Sheet C-115**

Replace Sheet C-115 with the one attached to Addendum No. 2. Drawing callouts were modified for clarification in order to revise erosion control matting type. An additional callout was added to show general location of Planting Shelf and to reference Planting details on C-508.

10. **Sheet C-301**

Replace Sheet C-301 with the one attached to Addendum No. 2. Pipe profiles were revised to reflect drainage structure changes on building pads.

11. **Sheet C-302**

Sheet C-302 is no longer required and has been removed from the Contract Set.

12. **Sheet C-303**

Replace Sheet C-303 with the one attached to Addendum No. 2. Pipe profiles were revised to reflect drainage structure changes on building pads.

13. **Sheet C-501**

Replace Sheet C-501 with the one attached to Addendum No. 2. Permanent Diversion Ditch detail was revised to use SC150 matting in lieu of S150. Grass Swale detail was added.

14. **Sheet C-502**

Replace Sheet C-502 with the one attached to Addendum No. 2. Channel Stabilization with Matting detail was modified

15. **Sheet C-504**

Replace Sheet C-504 with the one attached to Addendum No. 2. Yard Inlet Top detail was added and Catch Basin Top detail was modified.

17. **Sheet C-506**

On the Standard Hydrant Lateral Detail replace the note “5-1/4” Storz Nozzle and Cap” with “5” Storz Nozzle and Cap.

16. **Sheet C-508**

Sheet C-508 was added to the Contract Set, to provide Grass Swale Stabilization with Matting detail and to provide Planting Schedule and Detail for Wet Ponds 1 & 2.

ATTACHMENTS

1. Bidder Questions & Responses
2. Revised Bid Schedule
3. Revised Plan Sheets: C-106, C-107, C-108, C-109, C-110, C-112, C-113, C-114, C-115, C-301, C-303, C-501, C-502, C-504, C-508

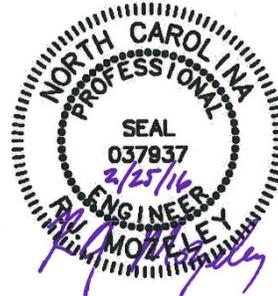
This Addendum No. 2 is issued this the **25th day of February, 2016.**

RJ MOZELEY, PE



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END OF ADDENDUM NO. 2

BIDDER QUESTIONS & RESPONSES

A. Question/Request: What is the current status of the area to be cleared?

Answer: The majority of the site is currently open fields with a few small groups of trees. Contractors are strongly encouraged to visit the site prior to bidding to ascertain the existing site conditions for themselves.

B. Question/Request: Is there an Engineers Estimate of probable Construction Cost?

Answer: Yes, the engineer's estimate is \$2.9 million.

C. Question: Will AutoCAD files of the project design be available to Bidders?

Answer: Yes, after a plan holder requests the subject files and successfully executes McGill Associates' Agreement for Provision of Electronic Data an AutoCAD file of the project will be provided.

D. Question/Request: Will a list of attendees be distributed?

Answer: Yes, a list of the attendees for the pre-bid meeting will be distributed with Addendum No. 1

E. Question/Request: Who will be handling the Erosion and Sediment control inspections for the project?

Answer: The Land Quality Section of NCDEQ will be performing inspections for the project.

F. Question/Request: Is the pre-bid meeting mandatory?

Answer: No, the bid documents will be modified in Addendum No. 1 to reflect that the pre-bid meeting was not mandatory.

G. Question/Request: How soon will the project's construction phase begin?

Answer: Mr. Mozeley estimated that the project's award and Notice to Proceed would be processed relatively quickly (likely within 60 days barring any unforeseen issues with the bids). Mr. Mozeley added that grant funding is in place for the project so there should be no delays in the construction phase for funding. Mr. Mozeley also directed attendees to check the Bidding Documents for the duration of the bid hold period following the close of bids.

H. Question/Request: The quantities of undercut seem to be excessive, are they correct?

Answer: Mr. Seaman stated that review of the bid quantities were already under review and would be modified in Addendum No. 1.

- I. Question/Request: Do we understand correctly that all material removed during the project's work can remain on site, and that no specific waste is required?

Answer: Yes, based on the information we have at this time, there is no designated waste area and all unsuitable excavation materials can be disposed of on site in non-structural areas with prior approval from the Engineer.

- J. Question/Request: Will polypropylene drainage pipe be accepted as a substitute material for the drainage system?

Answer: No.

- K. Question/Request: It appears that the existing binder course is not uniform throughout the Phase A project area which may require more than 1.5" of finished asphalt. Will the bid units be modified?

Answer: No, unit pricing for asphalt will remain as a price per square yard. Any adjustments necessary to match grade lines due to minor thickness variations shall be incorporated into the unit price.

- L. Question/Request: Please confirm replacement borrow / select backfill will come from an on-site source? Will you provide a maximum distance from the work area for us to assume these areas?

Answer: Select backfill (as defined by the contract documents and paid for at the contract unit price for Select Backfill) shall be obtained from an onsite source, within the limits of disturbance, as needed.

Borrow material (as required to achieve grades shown on the Contract drawings and paid for at the contract unit price for Earthwork) shall be obtained from an onsite source within the limits of disturbance.

Contractor shall coordinate with Owner/Engineer for approval of location, depth, etc. prior to removing material for select backfill or borrow material from onsite areas.

- M. Question/Request: Please confirm that any waste/excess dirt will be disposed of (stockpiled) at a location on-site. Will you provide a maximum distance from the work area for us to assume?

Answer: Unsuitable material (not defined by the contract documents as Undercut shall be paid for at the contract lump sum price for Earthwork) shall be wasted onsite within the limits of disturbance.

Excess dirt from grading operations (as required to achieve grades shown on the Contract drawings and paid for at the contract unit price for Earthwork) shall be disposed of onsite within the limits of disturbance.

Contractor shall coordinate with Owner/Engineer for approval of location, depth, etc. prior to wasting excess dirt from grading operations or unsuitable material in onsite areas. Material disposed of on-site prior to engineer approval will have to be removed at the Contractor's expense.

- N. Question/Request: Please confirm that both duct banks A & B are to be backfilled with concrete.

Answer: Both duct banks shall be encased in concrete per the duct bank detail on Sheet E-501.

- O. Question/Request: Please confirm that no wire/fiber is to be included in either duct banks A or B.

Answer: Confirmed, no wire or fiber shall be included with this project.

- P. Question/Request: Are we to include pull wire in each conduit for duct banks A & B?

Answer: Yes, pull wire shall be installed in each conduit.

- Q. Question/Request: Are electrical specifications available for the duct bank installation?

Answer: Specifications for duct bank work are provided on the electrical plan sheets.

- R. Question/Request: The Geotech report suggests we may be able to use the "plow zone" farming soils as structural fill for the project. Should we assume this is the case?

Answer: Acceptability for use as fill shall be determined by soils testing at the time of the project when earthwork begins and shall be handled in accordance with the contract documents.

- S. Question/Request: Are we to assume respreading the entire volume of topsoil, or only the amount required to achieve a certain thickness over the slopes and non-structural areas? If the latter, what thickness should we assume? If there is excess topsoil it remains on-site, either placed in non-structural areas or stockpiled?

Answer: Topsoil shall be stock piled and respread over slopes and non-structural areas to an approximate thickness of 4". Excess topsoil, following respreading shall be wasted onsite and coordinated with Owner/Engineer for approval of location, depth, etc. prior to placing.

- T. Question/Request: Will MH & CH classified soils be acceptable for use as structural fill?

Answer: Acceptability for use as fill shall be determined by soils testing at the time of the project when earthwork begins and shall be handled in accordance with the contract documents.

- U. Question/Request: Will unsuitable soils (soils that do not meet soil classification requirements and/or do not meet the minimum soil weight of 100 lbs/cf) encountered within the excavation volume be paid for as Undercut?

Answer: Unsuitable material not defined by the contract documents as Undercut shall be paid for at the contract lump sum price for Earthwork and shall be wasted onsite within the limits of disturbance.

- V. Question/Request: If any soil encountered is so wet that it cannot be dried by mechanical means (i.e. repeated disking / recompacting), and lime drying is required, will this be negotiated and paid extra? Or are Bidders to assume lime drying in our bid?

Answer: Contractor shall determine the appropriate methods to use to manage materials that have moisture content that exceed proctor limits and shall incorporate any costs into the lump sum price for earthwork.

- W. Question/Request: Is there a landscaping plan for the Wet Ponds?

Answer: A planting detail and planting schedule is provided on Sheet C-508, which has been incorporated into the contract set of drawings through Addendum No. 2.

- X. Question/Request: What are the details for the mulch trail to be provided around Wet Pond #1?

Answer: No mulch trail is required, the note on Sheet C-114 has been revised as part of Addendum No. 2

- Y. Question/Request: What is the intended purpose of scarifying the bottom of the wet ponds to a depth of 18"? Is this done before or after applying bentonite? How is the bentonite incorporated? Are there any reports that show infiltration rates of the current soils?

Answer: As indicated on Sheets C-114 & C-115 the bottom of the pond shall be scarified to a depth of 18" and compacted to 95% standard proctor. This is to ensure proper compaction of the bottom of the pond following drying and the removal of sediment that has accumulated during its use as a temporary skimmer basin during construction. While scarifying and compacting the bottom of the pond, bentonite can be mixed into the top 8"-10" of material and compacted to 95%. There are currently no infiltration rates of existing soils on-site. Contractors are encouraged to consult local suppliers or manufacturers to determine application rates of bentonite to achieve the desired infiltration rate shown on Sheets C-114 & C-115.

Z. Wet Pond # 2 description of payment on the plan detail includes an access road, what should be in the work to construct the access road? Is stone required?

Answer: Access road will be seeded for stabilization and graded, as shown by the contours in the Contract Drawings.

AA. Question/Request: Would Consideration be given to alter the Outlet Control Structure in Wet Ponds to allow them to be set/erected during construction of the skimmer basin?

Answer: No.

BB. Question/Request: Is the unit price for SC150 matting all inclusive, covering the various temporary ditches and slopes as required?

Answer: The unit price for Item 11 shall only be for permanent slopes as described in Section 013000 – Measurement & Payment. Matting for permanent ditches shall be paid for under the work Item 12a added as part of Addendum No. 2. Matting associated with temporary ditches and erosion control shall be paid for under work Item 3 – Erosion Control Measures.

CC. Question/Request: Plan details show silt fence outlets. None are shown on the erosion control plan. Do you have an estimated quantity?

Answer: Silt fence outlets shall be located at low points of continuous runs or at any point where flow may overtop the sediment fence such as natural depressions or swales. Contractor shall estimate the total quantity required and incorporate any costs into the Erosion Control Measures unit price.

DD. Question/Request: Rip rap check dams are mention in the measurement and payment description and a special silt fence detail is provided, what are the estimated quantities or both:

Answer: Neither are required.

EE. Question/Request: Are Bidders allowed to test dig the site?

Answer: Yes, the Owner will allow test digging provided that the Bidder properly restore/mulch the areas which are disturbed before leaving the site.

REVISED BID SCHEDULE

ITEM #	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL AMOUNT
1	Mobilization/General Requirements	LS	1		
2	Clearing and Grubbing	LS	1		
3	Erosion Control Measures	LS	1		
4	Earthwork	LS	1		
5	Mass Rock Excavation	CY	1,000		
6	Trench Rock Excavation	CY	400		
7	Undercut Excavation	CY	8,000		
8	Bi-Axial Geogrid for Base Stabilization	SY	7,000		
9	Compacted ABC for Base Stabilization	TON	2,000		
10	Select Backfill	CY	7,000		
11	Seeding, Fertilizing, and North American Green SC150 Matting	SY	17,500		
12	Seeding, Fertilizing, and North American Green SC250 Matting (Lot 3)	SY	5,600		
12a	Seeding, Fertilizing, and North American Green SC150 Permanent Ditch Matting	SY	1,500		
12b	Grass Swale	LF	2,600		
13	Catch Basin	EA	3		
13a	Yard Inlet	EA	6		
14	Curb Inlet	EA	8		
15	Junction Box	EA	3		
16	30" Curb and Gutter	LF	1,350		
17	Concrete Sidewalk	SY	520		
17a	Concrete Sidewalk for Greenway	SY	100		
18	18" HDPE Pipe	LF	140		
19	18" RCP	LF	180		
20	24" RCP	LF	900		
21	36" RCP	LF	1,700		
22	42" RCP	LF	240		
23	Flared End Section	EA	5		
24	Washed Stone for Pipe Trench Stabilization	TON	350		
25	Permanant Ditch Rip Rap Outlet Protection w/ Filter Fabric	EA	3		
26	Wetpond #1	LS	1		
27	Wetpond #2	LS	1		

ITEM #	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL AMOUNT
28	8" ABC Stone (Asphalt Road)	SY	2,800		
29	1.5" SF9.5A Asphalt Surface Course	SY	10,500		
30	2.5" I19.0B Asphalt Intermediate Course	SY	2,800		
31	6" ABC Stone (Gravel Road)	SY	1,340		
32	Seeding, Fertilizing, and Mulching	LS	1		
33	12" Ductile Iron Water Line Installation	LF	1,600		
34	12" Mechanical Joint Gate Valves w/ Adjustable Cast Iron Valve Boxes	EA	4		
35	Fire Hydrant Assembly	EA	3		
36	Compact Ductile Iron Fittings	LBS	1,400		
37	4' Diameter Sewer Manholes	EA	4		
38	Connect to Existing 4' Diameter Sewer Manhole	EA	1		
39	12" Ductile Iron Sewer Line	LF	840		
40	Electrical Ductbank 'A' - 15 Way	LF	350		
41	Electrical Ductbank 'B' - 15 Way w/4-Way Fiber	LF	285		
42	Electrical Manholes	EA	6		
TOTAL BID PRICE					