

## DESIGNER'S REQUEST FOR AUTHORIZATION TO CHANGE

DATE: 06/24/2021

REQUEST NO.: Change Order 001

PROJECT NAME: Shallotte Transmission WL

OWNER: Brunswick County Public Utilities

CONTRACTOR: Ralph Hodge Cons. Co.

DESIGNER: Cape Fear Engineering

CONTRACT FOR: Shallotte Transmission WL

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### REASON FOR CHANGE:

See letter from Cape Fear Engineering to BCPU dated 06/23/2021.

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### SUMMARY REVIEW OF CONTRACTOR'S ESTIMATE FOR TIME AND COST: (Attach Contractor's detailed cost breakdown of labor and materials)

See letter from Cape Fear Engineering to BCPU dated 06/23/2021.

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### DESIGNER SUMMARY:

1. Schedule items affected by this change:
2. Can Contractor mitigate the change without requiring a Contract time extension? **No**
3. Will the change require a Contract time extension for other Contractors? **No** Which?
4. Are additional costs indicated by reason of the time extension? If so they must be included in 5 & 6 Below.

	CONTRACTOR'S ESTIMATE	DESIGNER'S ESTIMATE
5. Estimated cost of change:	N/A	N/A
6. Estimated time extension field cost (if any):	N/A	N/A

### DESIGNER RECOMMENDATION AND CERTIFICATION:

I certify that I have reviewed all aspects of this change order and have determined that it is in the best interest of the Owner to have the work accomplished. I have also determined that the cost and time allotment are fair and equitable, and I recommend acceptance by the Owner.

Approved by:



Date:

06/24/2021

Title:

Kyle Herring, PE, Project Engineer

BRUNSWICK COUNTY  
CHANGE ORDER NO. 001

PROJECT: Shallotte Transmission WL  
ORIG. TIME OF COMP. 365 Days  
ORIG. DATE OF COMP. December 9, 2021

CAUSE CODE:

**FOR BC USE ONLY**

- ☐ OR Owner Request
- ☐ CR Contractor Request
- ☐ DR Designer Request
- ☐ CC Concealed Condition
- ☐ DE Design Error
- ☐ DO Design Omission
- ☐ SC Schedule Change
- ☐ OT Other

Under the terms of the Contract and without invalidating the original provisions thereof, the following change(s) in work is(are) authorized for the change in Contract amount herein set forth: (Description of change order with detailed breakdown attached)

See attached. This Change Order is for the substitution of the remaining linear feet of PVC for DIP, and to execute the credit provided to the County for substitution of FPVC in lieu of HDPE for directional drills.

The Time of Completion including previous orders is 365 calendar days and shall be increased (decreased) (unchanged) by 56 calendar days by this change order for a revised Contract date of completion of 2/3/22. (Detailed analysis supporting the requirements for a change in duration is attached)


**CONTRACT COST SUMMARY**

	ADD	\$	Deduct	\$	TOTALS
1. Original Contract Amount					\$5,433,500.00
2. Amount of Previous Orders					
3. Amount of This Order:	<u>ADD</u>	\$ 365,046.00	<u>Deduct</u>	\$40,000.00	
4. Total additions lines 2 & 3		\$ 365,046.00	Minus Total Deducts:	\$40,000.00	\$325,046.00

(Line 4 shall show the net amount to be added or [deducted] from the **original** Contract amount.)

5. Revised Contract Total Amount \$5,758,546.00

I certify that my Bonding Company will be notified forthwith that my Contract has been changed by the amount of this change order, and that a copy of the approved change order will be mailed upon receipt by me to my surety.

Ralph Hodge Cons. Co. (Contractor)	By: _____	_____ (Date)
Cape Fear Engineering (Designer)	By: 	<u>06/24/2021</u> (Date)
_____ (Owner)	By: _____	_____ (Date)
_____ (County Commissioners)	By: _____	_____ (Date)

This instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act.

Approved as to Form

\_\_\_\_\_  
Brunswick County Finance Officer

\_\_\_\_\_  
Brunswick County Attorney

DISTRIBUTION: 1 original to Owner

1 original to Contractor

# CAPE FEAR ENGINEERING

June 23<sup>rd</sup>, 2021

John Nichols, P.E.  
Brunswick County Public Utilities  
250 Grey Water Road  
Supply, NC 28462

**RE: Shallotte Transmission Waterline  
Change Order #1**

Dear Mr. Nichols:

On June 6<sup>th</sup>, 2021, we received the attached letter from Ralph Hodge Construction Company requesting additional funds and time due to the current overall stability of the construction materials market, specifically the cost and availability of the PVC pipe, and their recommendation to move forward with DIP as the pipe material for the remainder of the Project.

Ductile Iron Pipe (DIP) is the standard pipe material recommended for large diameter transmission lines for Brunswick County Public Utilities. PVC pipe was a substitution that was executed as a cost savings at the time of award. Based on the current availability of PVC, the proposed recommendation to provide DIP for the remainder of the project would be beneficial to the project, and avoid further delays due to regional availability of PVC pipe.

As stated in this letter the PVC resin industry has been severely impacted by a shortage caused due to winter storm events in Texas. These shortages have particularly impacted this project due to the large diameter (24") and the amount of resin required to produce, as well as the overall low demand for this pipe size regionally.

Due to conditions being out of the control of the Owner, Engineer and Contractor, we take no exceptions to the proposed recommendation from the Contractor to proceed with substitution of the remaining PVC with DIP for an added cost of \$365,046.00. After incorporating a previous credit of \$40,000 from Change Proposal dated January 6<sup>th</sup>, 2021, the net change order at this time is **\$325,046.00** and an extension of the Contract by **56 days**.

This recommendation is solely based the unique conditions noted above, as well as the overall uncertainty of market conditions in the coming months and are in attempt to mitigate additional costs and time delays on this project.

Sincerely,

Matthew T. Haley, PE  
Project Engineer

CFE File: 839-04

Attachments: (1) DIP Substitution Letter w/ Estimate, (2) Letters From Regional Suppliers, (3) Change Proposal for Fusible PVC

**Change Proposal**  
**Brunswick County**

**Date:** January 6, 2021

**Project Name:** Shallotte Water Transmission Main

**Designer:** Cape Fear Engineering

**Contractor:** Ralph Hodge Construction Company

**Designer Rep:** Kyle Herring, PE

**Contractor Rep:** Ryan Walser

The Contractor recommends the following change to the project with associated changes to the Time of Completion and/or total project cost:

Ralph Hodge Construction (RHCC) recommends the use of FPVC on the directional drills and on the open cut fusible pipe sections of the project. RHCC offers a \$40,000.00 credit from the project cost with no change in the time of completion. Additionally, RHCC has assurances from the FPVC manufacturer that some of the pipe is in stock and would therefore not delay the commencement of the drills. We have concerns that DR9 in this large size would not be readily available. Therefore, we recommend the change.

This change will:      ADD      SUBTRACT      NOT CHANGE      (circle as appropriate) the total project cost by \$ 40,000.00.

The total change to the Time of Completion shall be an:      INCREASE      DECREASE      (circle as appropriate) of \_\_\_\_\_ days.

A breakdown of the proposed work is attached. No work shall be commenced until authorized by the Owner. All work shall be in accordance with the terms, stipulations, and conditions of the Contract Documents.

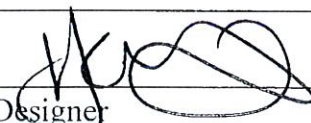
**SIGNATURES:**

  
\_\_\_\_\_  
Contractor

1/6/21  
\_\_\_\_\_  
Date

Designer's Action:    ☒ Recommend      ☐ Do Not Recommend

☐ Recommend with the following changes

  
\_\_\_\_\_  
Designer

KYLE HERRING, PE

01/25/2021  
\_\_\_\_\_  
Date