CITY OF NEW BERN
BOARD OF ALDERMEN WORK SESSION
OCTOBER 6, 2020 – 4:00 P.M.
CITY HALL COURTROOM
300 POLLOCK STREET

1. FEMA Update (Expenditures vs. Reimbursements)
2. Financial Update:
   a) Revenues Actual vs. Revenue Projections/Budget
   b) Expenditures to Date vs. Budget
   c) FY20-21 Personnel and Capital Requests Removed from Budget Due to COVID-19 Uncertainty
3. Discussion of City Hall Annex Project.
4. Discussion of Racetrack Road Project.
5. New Business, if any.
6. Adjourn.

INDIVIDUALS WITH DISABILITIES REQUIRING SPECIAL ASSISTANCE SHOULD CALL 639-7501 NO LATER THAN 3 P.M. THE DATE OF THE MEETING

AGENDA ITEM COVER SHEET

NEW BERN
CITY OF NEW BERN

Agenda Item Title:
FEMA Update

Date of Meeting: 10/6/2020	**Ward # if applicable:**
Department: Finance	**Person Submitting Item:** Mary Hogan
Call for Public Hearing: ☐Yes☒No	**Date of Public Hearing:**

Explanation of Item:	PowerPoint presentation to the Board of Alderman will provide an update on FEMA expenditures and reimbursements.
Actions Needed by Board:	No action needed
Backup Attached:	PowerPoint presentation

Is item time sensitive? ☐**Yes** ☒**No**
Will there be advocates/opponents at the meeting? ☐**Yes** ☒ **No**

Cost of Agenda Item:
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? ☐**Yes** ☐ **No**

Additional Notes:

NEW BERN

NORTH CAROLINA

TO: City Manager, Honorable Mayor and Members of the Board of Aldermen

FROM: Mary M. Hogan - Director of Finance

DATE: September 25, 2020

RE: FEMA Update

Background

The attached presentation provides a summary for the following items:

1. Total funds FEMA has obligated, reimbursements the City has received to date, and any remaining obligations that are pending at this time.
2. Actual City expenditures to date, FEMA reimbursement and insurance proceeds received to date, and estimated reimbursements due to the City.
3. Project status updates on the Stanley White Recreation Center, drainage ditch projects and the BP Building.

Requested Action

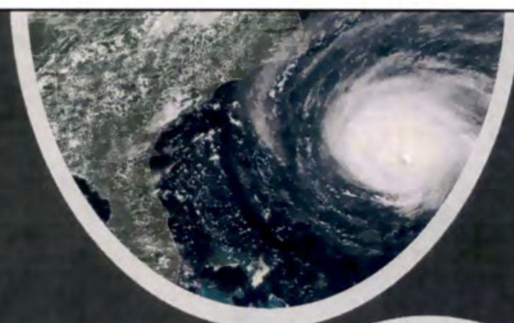
No action required at this time.

City of New Bern
Fall Budget Workshop

October 6, 2020

NEW BERN
NORTH CAROLINA

1



City of New Bern
FEMA Update

2

Hurricane Florence
FEMA and Insurance Reimbursements

FEMA OBLIGATED

Fund/Project	FEMA Obligated	FEMA Reimbursements	Remaining Obligations
General Fund - All Other	$ 1,972,425	$ 740,078	$ 1,232,347
General Fund - Stanley White	$ 7,506,649		$ 7,506,649
General Fund - Drainage*	$ 32,809,651	$ 39,657	$ 32,769,995
All Funds - Management Costs'	$ 2,153,876		$ 2,153,876
Enterprise Funds	$ 10,804,181	$ 8,290,277	$ 2,513,904
Total	**$ 55,246,782**	**$ 9,070,012**	**$ 46,176,771**

NEW BERN
NORTH CAROLINA

3

Hurricane Florence
FEMA and Insurance Reimbursements

ACTUAL EXPENDITURES TO DATE

Fund/Project	Paid by City	FEMA Reimb.	Insurance Proceeds	Estimated Reimb. Due
General Fund - All Other	$ 3,587,361	$ 740,078	$ 1,598,248	$ 1,249,034
General Fund - Stanley White	$ 1,358		$ 500,000	$ -
General Fund - Drainage	$ 1,173,533	$ 39,657		$ 1,133,876
All Funds - Management Costs	$ 1,314,484			$ 1,314,484
Enterprise Funds	$ 9,411,291	$ 8,290,277		$ 1,121,014
Total	**$ 15,488,027**	**$ 9,070,012**	**$ 2,098,248**	**$ 4,818,408**

NEW BERN
NORTH CAROLINA

4

Hurricane Florence Projects Update

Stanley White Recreation Center **$ 8,006,649**

Currently waiting on the environmental assessment to be completed. Bi-weekly meetings to be held with the Architectural & Engineering Firm, FEMA and conducting community outreach meetings with the public. Asbestos mitigation is currently underway in the building.

Drainage Ditches **$32,769,995**

The drain ditches have been separated into ten basin projects; we received bids on 9/25/20 for two basins with a combined estimated cost of $655,835. Five additional basin projects should be out for bid within the next 30 days.

BP Building **$ 656,540**

The City is waiting on FEMA's review and validation of the revised costs for demolition and replacement prior to beginning any work by the engineer with a new estimated cost of $1,972,513.

5

Any Questions?

6

AGENDA ITEM COVER SHEET

NEW BERN
CITY OF NEW BERN

Agenda Item Title:
City of New Bern Financial Update

Date of Meeting: 10/6/2020	**Ward # if applicable:**
Department: Finance	**Person Submitting Item:** Mary Hogan
Call for Public Hearing: ☐Yes☒No	**Date of Public Hearing:**

Explanation of Item:	PowerPoint presentation to the Board of Alderman will provide a revenue/expenditure comparison to prior years, fund balance update, and review the unfunded positions and capital improvements.
Actions Needed by Board:	No action needed
Backup Attached:	PowerPoint presentation

Is item time sensitive? ☐Yes ☒No
Will there be advocates/opponents at the meeting? ☐Yes ☒ No

Cost of Agenda Item:
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? ☐Yes ☐ No

Additional Notes:

NEW BERN
NORTH CAROLINA

TO: City Manager, Honorable Mayor and Members of the Board of Aldermen

FROM: Mary M. Hogan - Director of Finance

DATE: September 25, 2020

RE: 2021 Financial Update

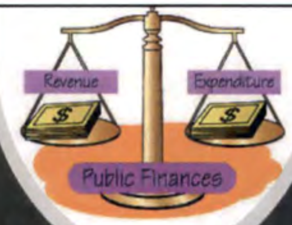
Background

The attached presentation provides a summary of the following items:

1. Comparison of First Quarter Revenues.
2. Comparison of First Quarter Expenditures
3. FY20-21 Personnel and Capital requests removed from the budget due to the uncertainty with COVID-19
4. Update of the current fund balance for the General Fund

Requested Action

No action required at this time.



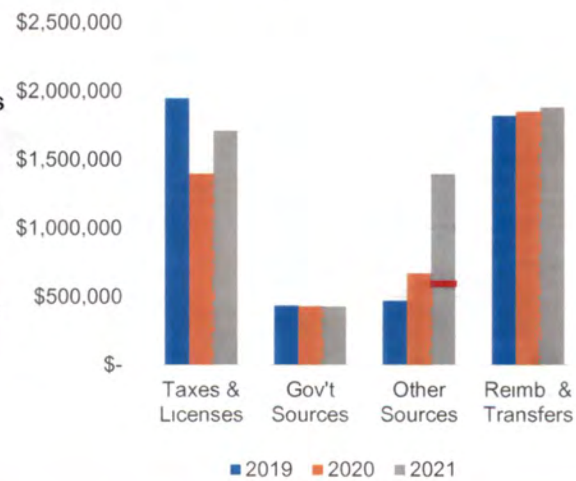
2021 Financial Update

7

Comparison of First Quarter Revenues General Fund

Factors to Consider for FY 2021 Data

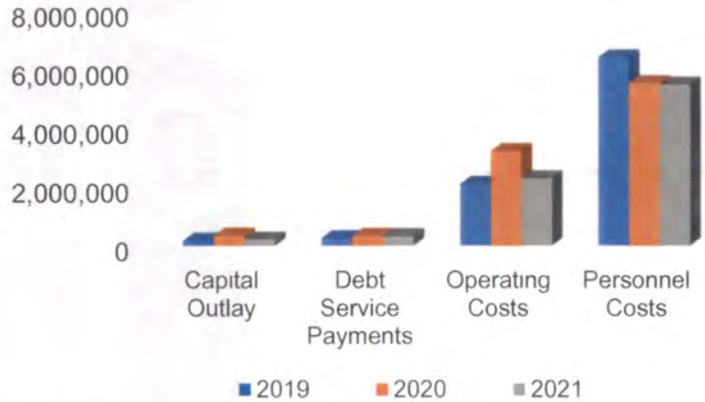
- Craven County Coronavirus Relief Funds $331,000
- Significant sale of Fixed Asset 801 Carolina Ave. $455,000
- Redline indicates revenues excluding the significant changes of $786,000 from above.



NEW BERN
NORTH CAROLINA

8

Comparison of First Quarter Expenses
General Fund



NEW BERN
NORTH CAROLINA

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24 NEW POSITIONS

8 RECLASSIFICATIONS WITH PAY INCREASE

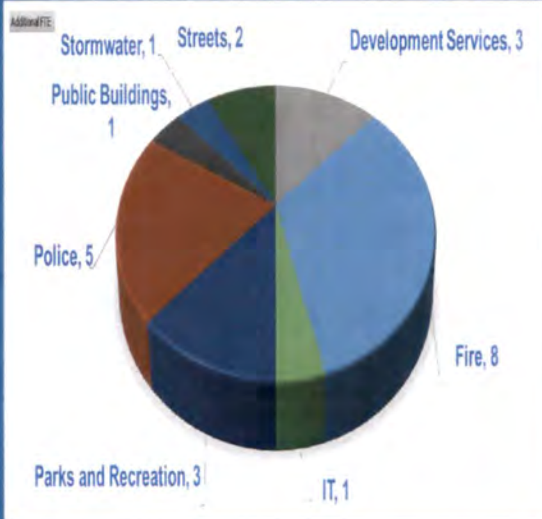
Unfunded & Reclassified Positions

10

NEW BERN

CITY OF NEW BERN

Unfunded Full Time Positions by Department



NEW BERN NORTH CAROLINA

11

Annual Salary & Benefit Costs for Proposed Positions

Funding for New and Reclassified Positions	Full Year Costs	FY 2020-21 Costs @ 70%
General Fund	$ 1,453,951	$ 1,017,765
Water	$ 37,076	$ 25,953
Sewer	$ 35,509	$ 24,856
Electric	$ 76,672	$ 53,670
Solid Waste	$ 1,745	$ 1,221
Total	**$ 1,604,953**	**$ 1,123,465**

NEW BERN NORTH CAROLINA

12

Annual Costs for Proposed New and Reclassified Positions

Department	Estimated Annual Costs	
Accounting	$	5,074
CAPS	$	9,824
Development Services	$	191,256
Electric	$	38,479
Fire	$	488,385
IT	$	75,671
Parks and Recreation	$	195,204
Police	$	358,950
Public Buildings	$	59,809
Sewer	$	11,052
Stormwater	$	52,967
Streets	$	105,650
Water	$	12,632
Grand Total	**$**	**1,604,953**

NEW BERN
NORTH CAROLINA

13

City of New Bern Capital Projects

- FY 2020-21 Approved Projects
- Unfunded Capital Projects
- Future Capital Project Plans

14

FY 2020-21 Approved Capital

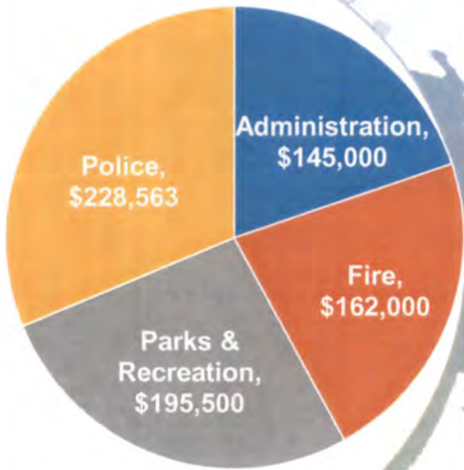
15

FY 2020-21 APPROVED CAPITAL PURCHASES

Projects by Department		Approved Capital
Administration	**$**	**100,000**
Firewall Replacement	$	30,000
Two Factor City Wide Addition	$	20,000
SAN Video Storage Upgrade	$	50,000
Development Services	**$**	**50,000**
Vehicles	$	50,000
Fire	**$**	**80,000**
Extrication Equipment	$	35,000
Fire Inspector Vehicle	$	45,000
Parks & Recreation	**$**	**755,500**
Metal Storage Building	$	40,000
Pleasant Hill Community Center	$	300,000
Vehicles	$	286,000
Heavy Equipment/Utility Vehicles	$	129,500
Police	**$**	**2,003,761**
Vehicles	$	410,173
Crime Scene Mapping Laser	$	89,693
City-Wide Radio Project	$	1,503,895
Public Works	**$**	**565,000**
Vehicles	$	143,000
Replace Tractor/Mowers/Trailers	$	152,000
Sidewalk Improvements	$	250,000
Diagnostic Machine	$	20,000
Grand Total	**$**	**3,554,261**

16

Unfunded General Fund Capital Projects



Projects by Department	Project Budget	
Administration	**$**	**145,000**
Phone System Replacement	$	110,000
Replace Data Cabling	$	35,000
Fire	**$**	**162,000**
Enclosed Trailer	$	6,000
New Fire Station	$	96,000
Storage Building	$	50,000
Wildland Firefighting Skid Unit	$	10,000
Parks & Recreation	**$**	**195,500**
Christmas Tree Addition	$	10,000
Glenburnie Park Paving Project	$	75,000
Mobile Recreation Unit	$	15,000
Park Scoreboards (2)	$	10,000
Remote Light Control System	$	12,500
Security Cameras in Parks	$	15,000
Union Point Park Upgrades	$	40,000
Heavy Equipment/Utility Vehicles	$	18,000
Police	**$**	**228,563**
Vehicles	$	90,231
Speed & Portable Message Display	$	25,130
Surveillance & Building Cameras	$	113,202
Grand Total	**$**	**731,063**

17

New Bern NORTH CAROLINA

Future Capital Project Plans 3 Year Projected Costs

Department	FY 2021-22	FY 2022-23	FY 2023-24
Administration	$ 330,000	$ 225,000	$ 120,000
Development Services	$ 50,000	$ 25,000	
Finance	$ 27,000		
Fire	$ 737,000	$ 2,016,000	$ 1,015,000
Parks & Recreation	$ 628,000	$ 595,000	$ 480,000
Police	$ 1,269,178	$ 1,283,427	$ 1,173,670
Public Works	$ 762,000	$ 380,000	$ 200,000
Grand Total	**$ 3,803,178**	**$ 4,524,427**	**$ 2,988,670**

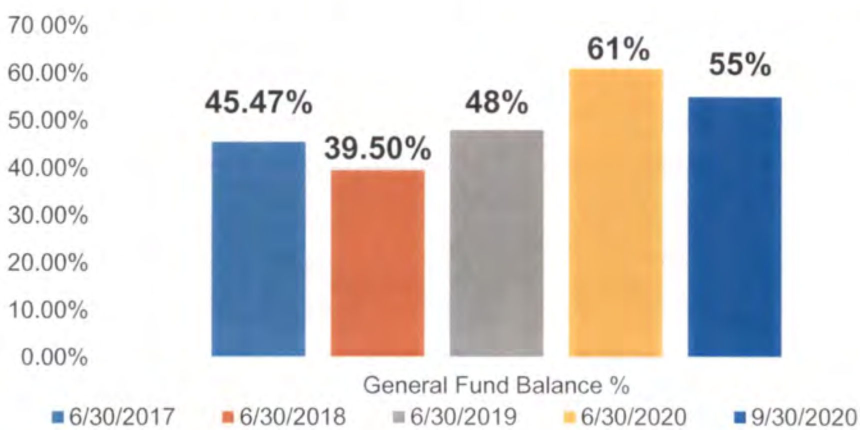
18

Fund Balance Update

- Fund Balance + FEMA Reimbursements Due
- Fund Balance Less Hurricane Funds Due

19

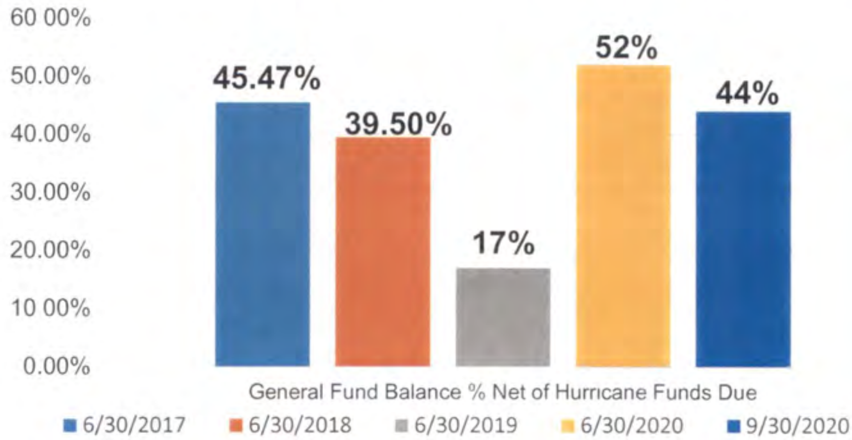
General Fund
Fund Balance + FEMA Reimbursements Due



Note: The actual fund balance for each fiscal year is determined after the completion of the Comprehensive Annual Financial Report. The 6/30/2020 and 9/30/2020 amounts are estimates based on current financial information.

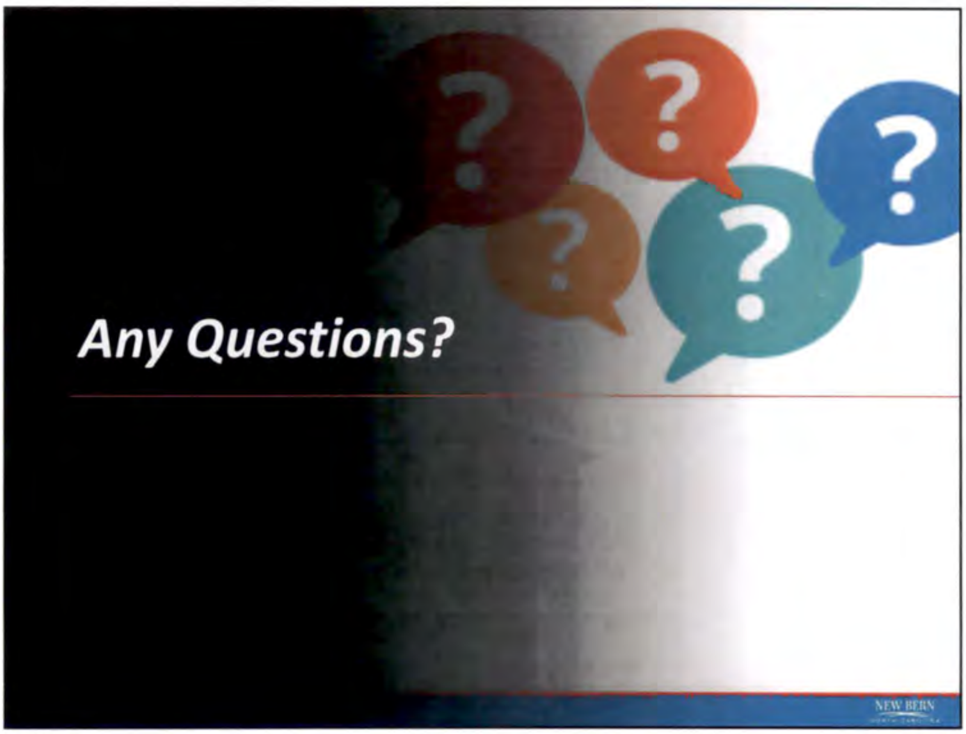
20

General Fund
Fund Balance Less Hurricane Funds Due



Note: The actual fund balance for each fiscal year is determined after the completion of the Comprehensive Annual Financial Report. The 6/30/2020 and 9/30/2020 amounts are estimates based on current financial information.

21



22

AGENDA ITEM COVER SHEET

NEW BERN
CITY OF NEW BERN

Agenda Item Title:

Discussion of City Hall Annex Project

Date of Meeting: 10/6/20	**Ward # if applicable:** 1
Department: Public Works	**Person Submitting Item:** Matt Montanye
Call for Public Hearing: ☐Yes☒No	**Date of Public Hearing:**

Explanation of Item:	Tripp Eure with MBF Architects will be in attendance to continue the discussion from April 28, 2020 on how to proceed with providing elevator access to City Hall.
Actions Needed by Board:	Direction for moving forward.
Backup Attached:	Cover Letter Preliminary Scoping Report Preliminary Conceptual Plan

Is item time sensitive? ☐Yes ☒No
Will there be advocates/opponents at the meeting? ☐Yes ☐ No N/A

Cost of Agenda Item: TBD
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? ☐Yes ☒ No

Additional Notes:

NEW BERN
NORTH CAROLINA

Public Works Department
P.O. Box 1129, 1004 S. Glenburnie Road
New Bern, N.C. 28563-1129
Phone: (252) 639-7501
Fax: (252) 636-1848

September 24, 2020

Memo to: Mayor and Board of Aldermen

From: Matt Montanye, Director of Public Works

Re: Discussion of City Hall and the Board's desire to provide elevator access.

Background Information:
In November of 2019, the City of New Bern Public Works Department contracted with MBF Architects to provide a feasibility study and to draft conceptual plans for providing elevator access to City Hall. As part of this study MBF Architects investigated three options for adding an elevator access and the cost associated with each option.

Option A:
To add an interior elevator to the existing footprint of City Hall.
Estimated Cost: **$1,300,000.00**

Option B:
To add an elevator to the exterior of the building to be located facing Pollock Street.
Estimated Cost: **$2,160,000.00**

Option C:
To add an elevator as part of a larger 14,300 square foot annexation building that would include relocating several City departments to the annexation building.
Estimated Cost: **$6,575,000.00**

After advertising a request for qualifications ("RFQ") for Architectural Services in March of 2020, MBF Architects was selected as the most qualified firm for this project. MBF provided the City with a proposal of $524,300 for architectural and construction administrative services as it relates to option C above. This proposal was presented to the Board on April 28, 2020, at which time it was tabled due to the unknown financial effects of Covid-19. The Board asked that this item be discussed at this work session.

STRAND ARCADE, SYDNEY, AUSTRALIA
CONSTRUCTED IN 1891

NICKLES ARCADE, ANN ARBOR, MICHIGAN
CONSTRUCTED IN 1918

B2 ARCADE PHOTO EXAMPLES
SCALE: 1/8" = 1'-0"

CITY HALL, NEW BERN, NORTH CAROLINA
CONSTRUCTED IN 1896, CLOCK TOWER ADDED IN 1910

B4 EXISTING CITY HALL
SCALE: 1/8" = 1'-0"

mbf architects pa

New Bern City Hall Elevator Annex
300 Pollock Street
New Bern, North Carolina

REVISIONS #	DATE	DESCRIPTION

MARCH 1, 2020

PRELIMINARY NOT FOR CONSTRUCTION 23 AUGUST 2019

MARCH 1, 2020

MBF ARCHITECTS P.A. CERT NO. 50679 NEW BERN NC

MBFA No: 191

PHOTO DOCUMENTATION

AP001
SHEET

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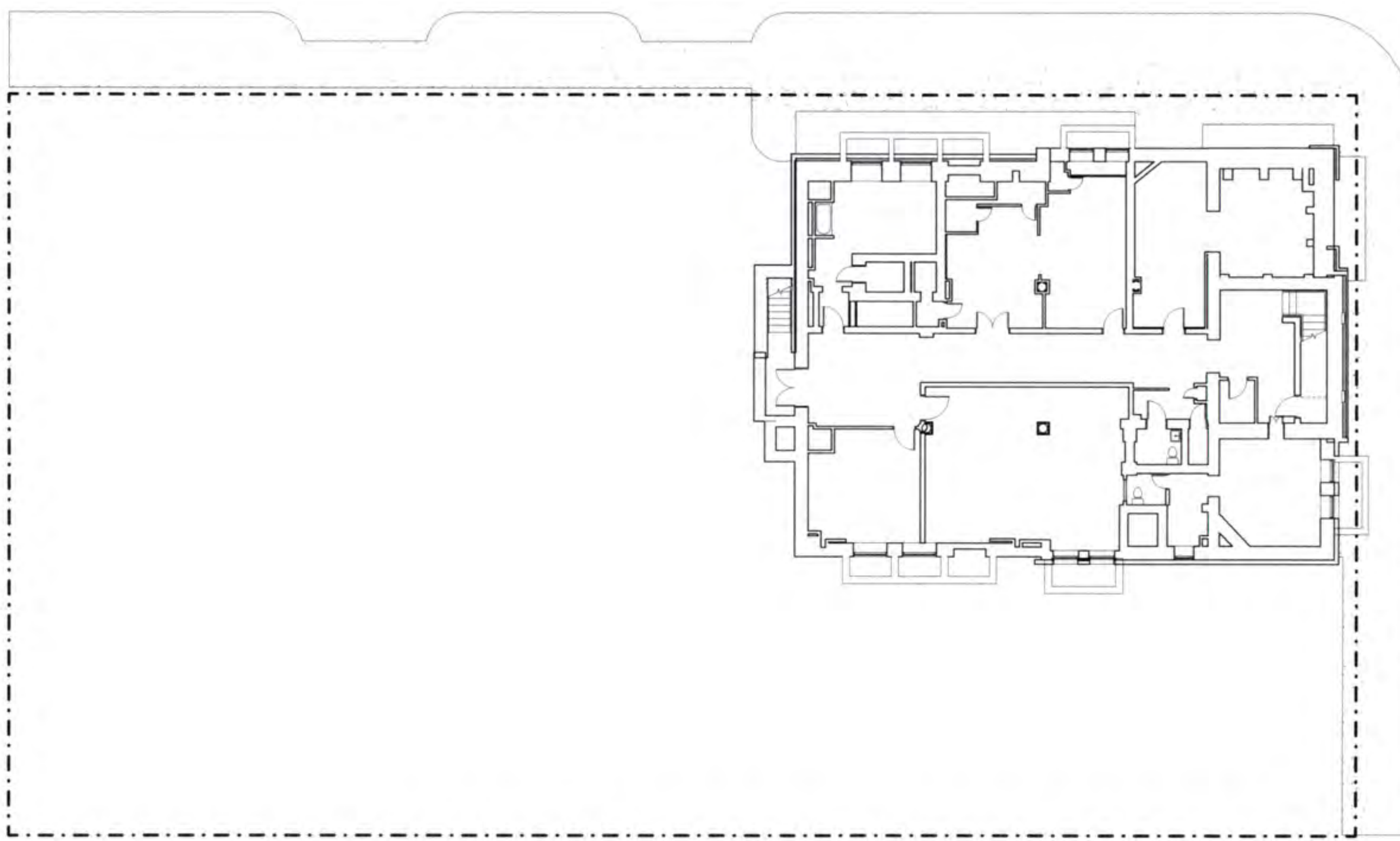

C4 **BASEMENT FLOOR PLAN**
SCALE 1/8" = 1'-0"

1 2 3 4 5

mbf architects pa

New Bern City Hall Elevator Annex

300 Pollock Street
New Bern, North Carolina

REVISIONS

#	DATE	DESCRIPTION

MARCH 1, 2020

PRELIMINARY
NOT FOR CONSTRUCTION
23 AUGUST 2019

MARCH 1, 2020

MBF ARCHITECTS P.A.
CERT NO 50679
NEW BERN NC

MBFA No: 191

BASEMENT FLOOR

AP100
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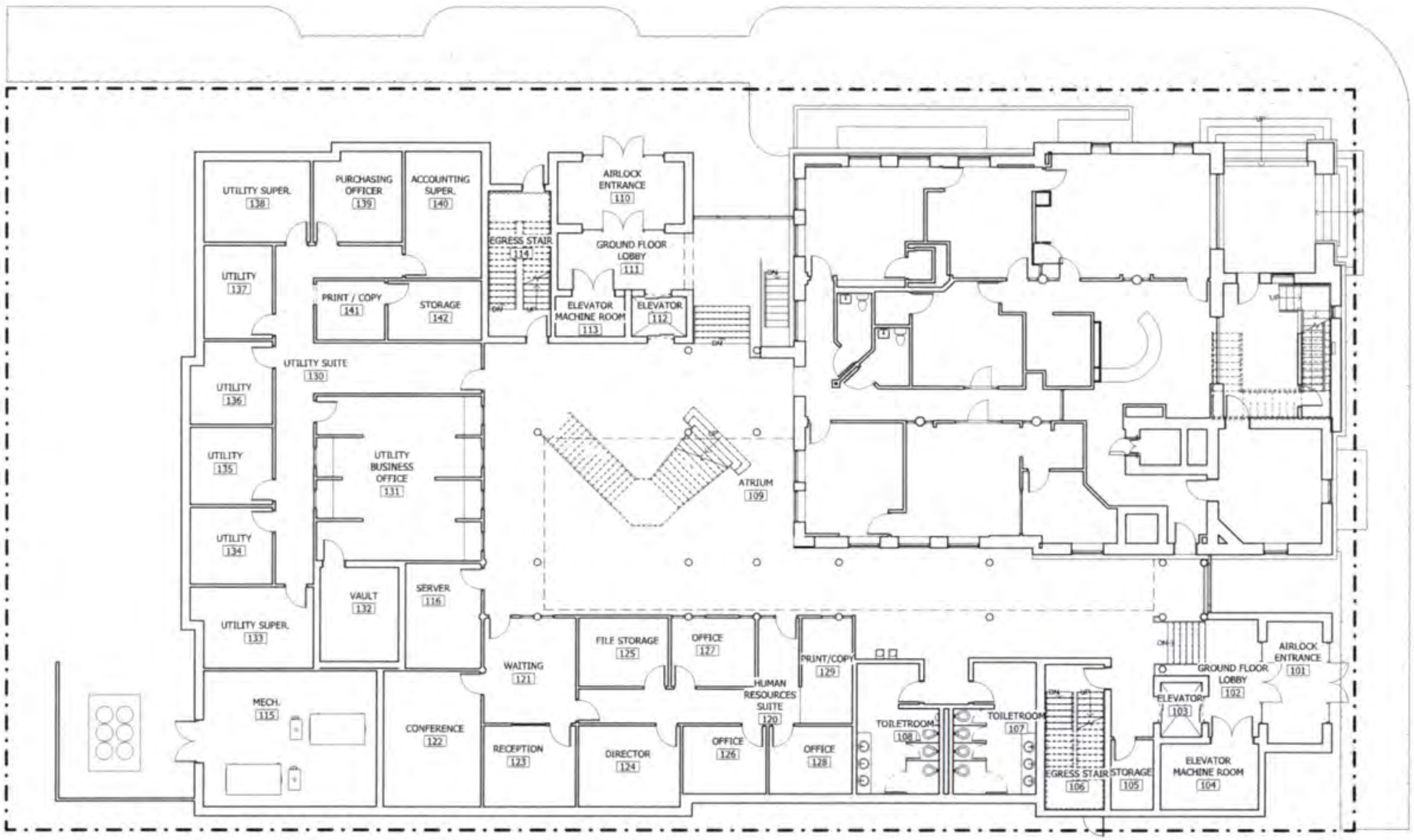


B3 FIRST FLOOR PROPOSED PLAN
SCALE 1/8" = 1'-0"

mbf architects pa

New Bern City Hall Elevator Annex
300 Pollock Street
New Bern, North Carolina

REVISIONS #	DATE	DESCRIPTION

MARCH 1, 2020

PRELIMINARY NOT FOR CONSTRUCTION 23 AUGUST 2019

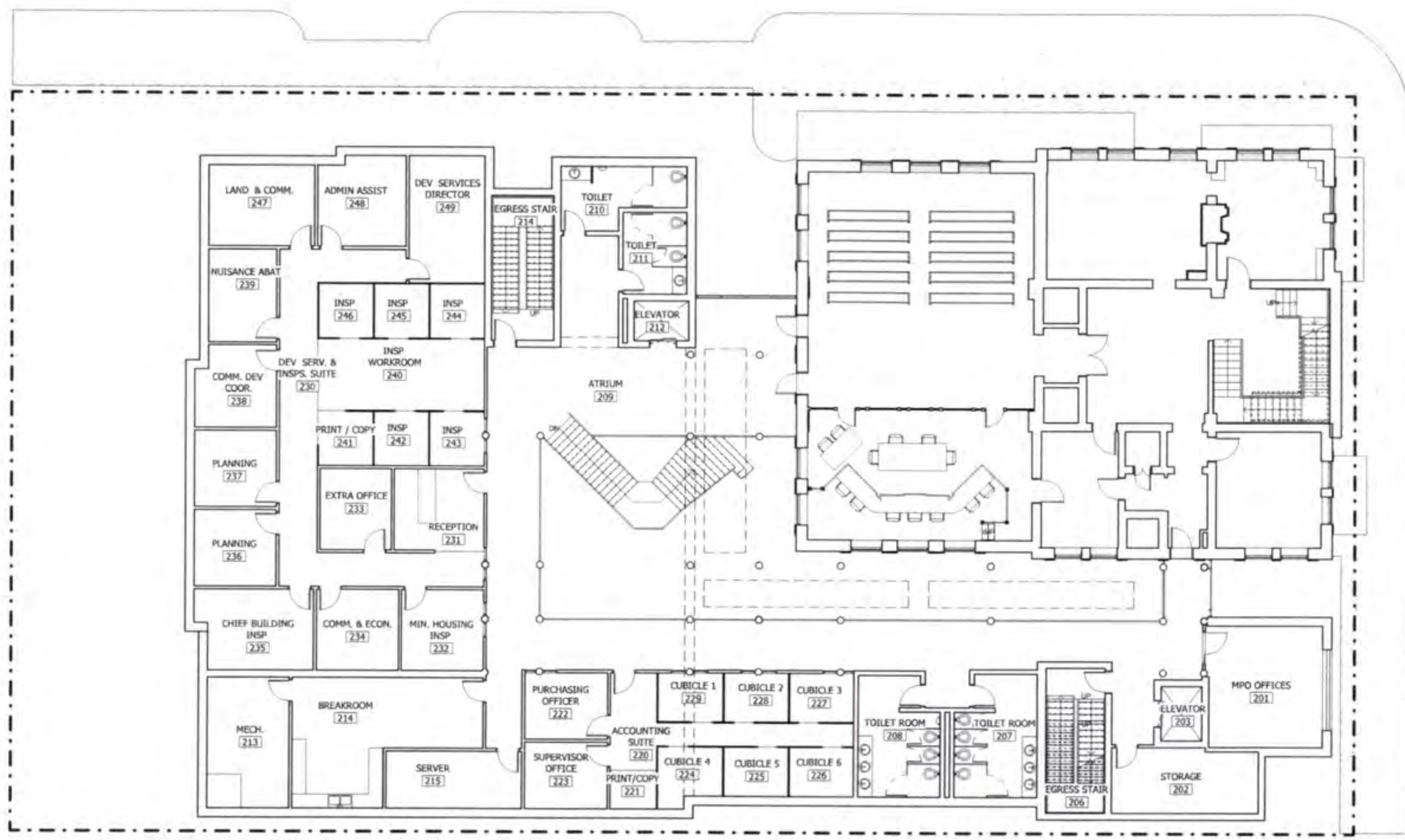
MARCH 1, 2020

MBF ARCHITECTS P.A. CERT NO. 50679 NEW BERN NC

MBFA No: 191

FIRST FLOOR

AP101
SHEET



B3 SECOND FLOOR PROPOSED PLAN

SCALE: 1/8" = 1'-0"

mbf architects pa

New Bern City Hall. Elevator Annex

300 Pollock Street
New Bern, North Carolina

REVISIONS		
#	DATE	DESCRIPTION

MARCH 1, 2020

PRELIMINARY NOT FOR CONSTRUCTION 23 AUGUST 2019

MARCH 1, 2020

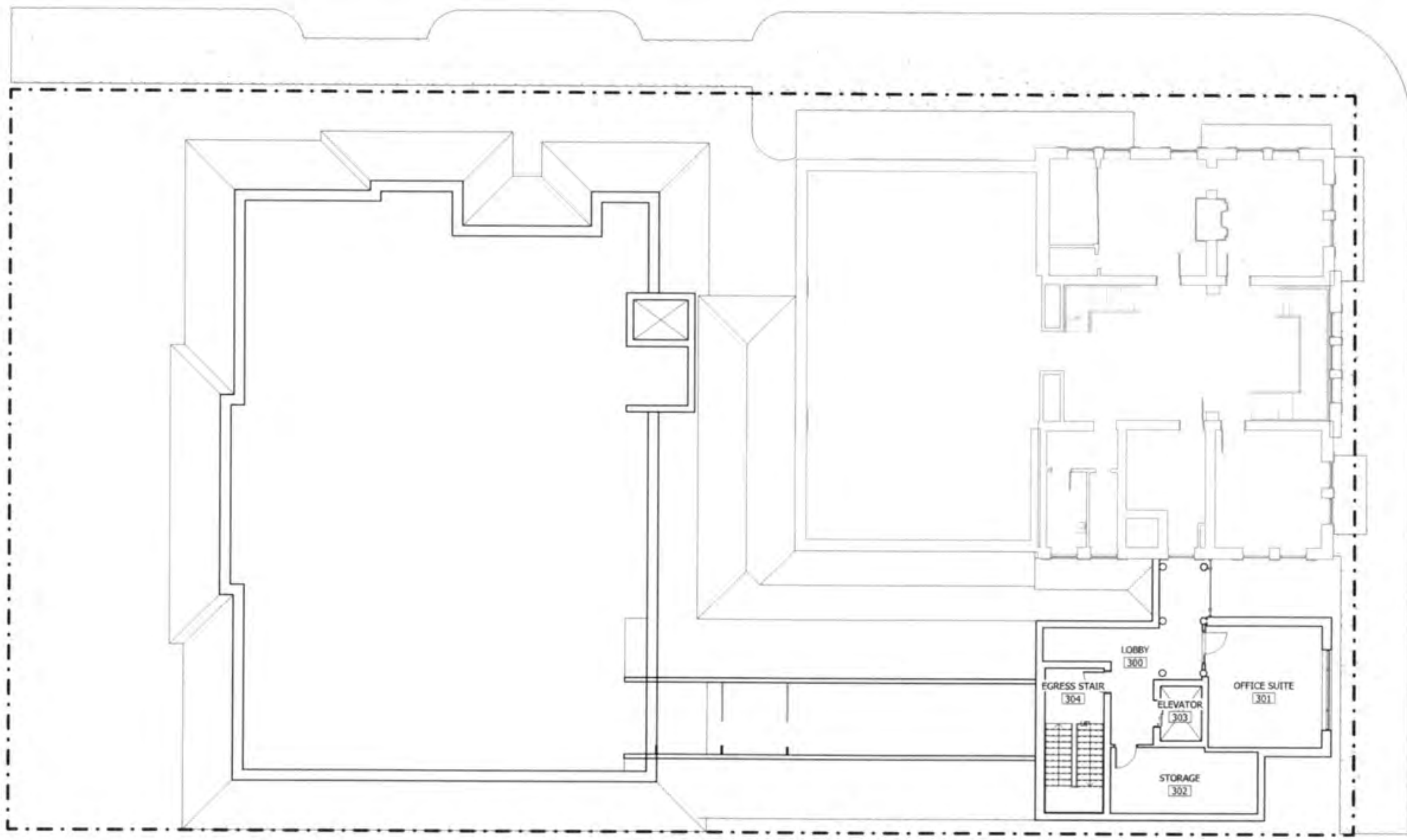
MBF ARCHITECTS P.A. CERT NO. 50679 NEW BERN NC

MBFA No: 191

SECOND FLOOR

AP102

SHEET



B3 THIRD FLOOR PROPOSED PLAN
SCALE: 1/8" = 1'-0"

mbf architects pa

New Bern City Hall: Elevator Annex
300 Pollock Street
New Bern, North Carolina

REVISIONS #	DATE	DESCRIPTION

MARCH 1, 2020

PRELIMINARY NOT FOR CONSTRUCTION 23 AUGUST 2019
MARCH 1, 2020

MBF ARCHITECTS P.A. CERT NO. 50679 NEW BERN NC

MBFA No: 191
THIRD A FLOOR

AP103
SHEET

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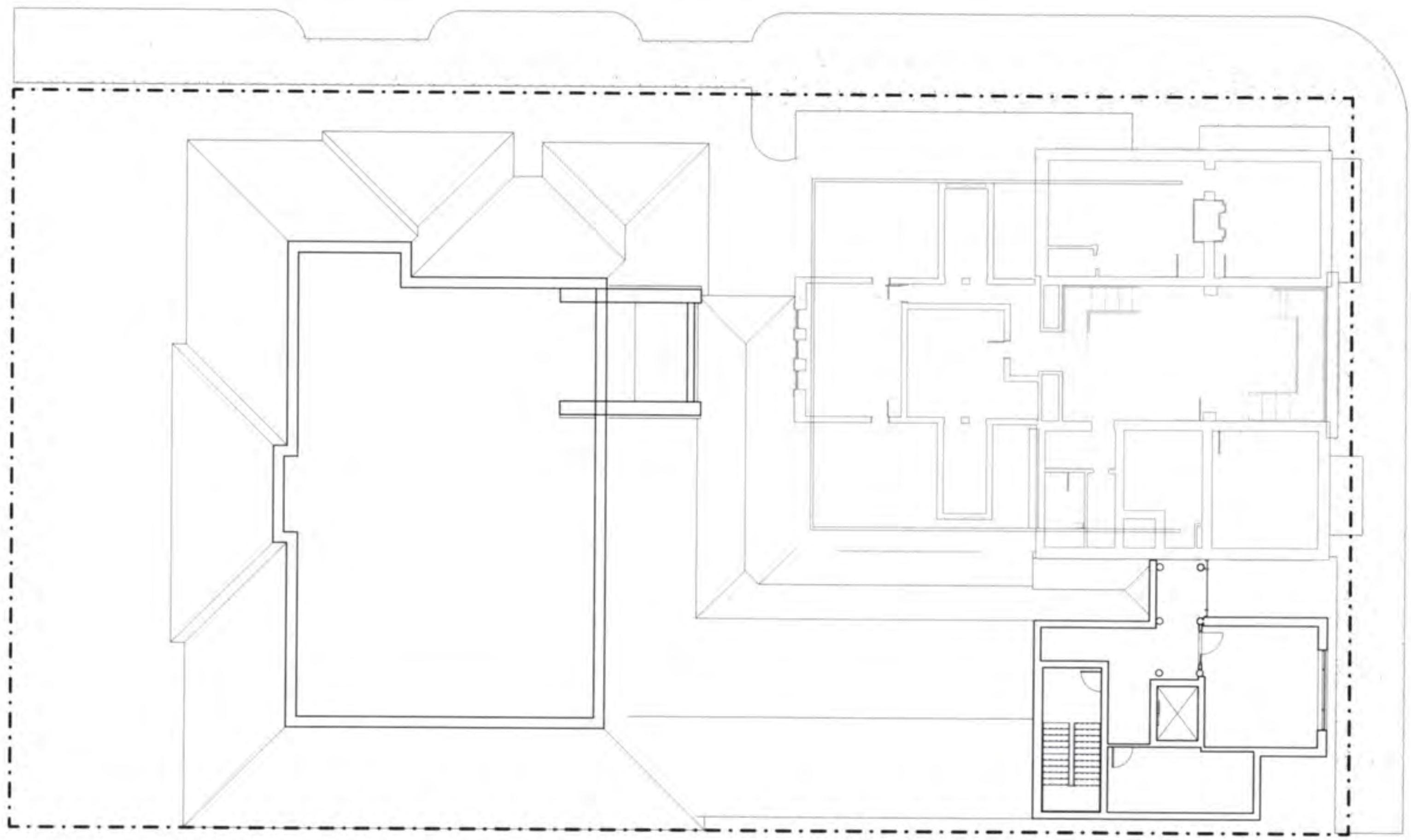


B3 THIRD FLOOR PROPOSED PLAN
SCALE 1/8" = 1'-0"

1 2 3 4 5

mbf architects pa

New Bern City Hall: Elevator Annex
300 Pollock Street
New Bern, North Carolina

REVISIONS #	DATE	DESCRIPTION

MARCH 1, 2020

PRELIMINARY NOT FOR CONSTRUCTION 23 AUGUST 2019

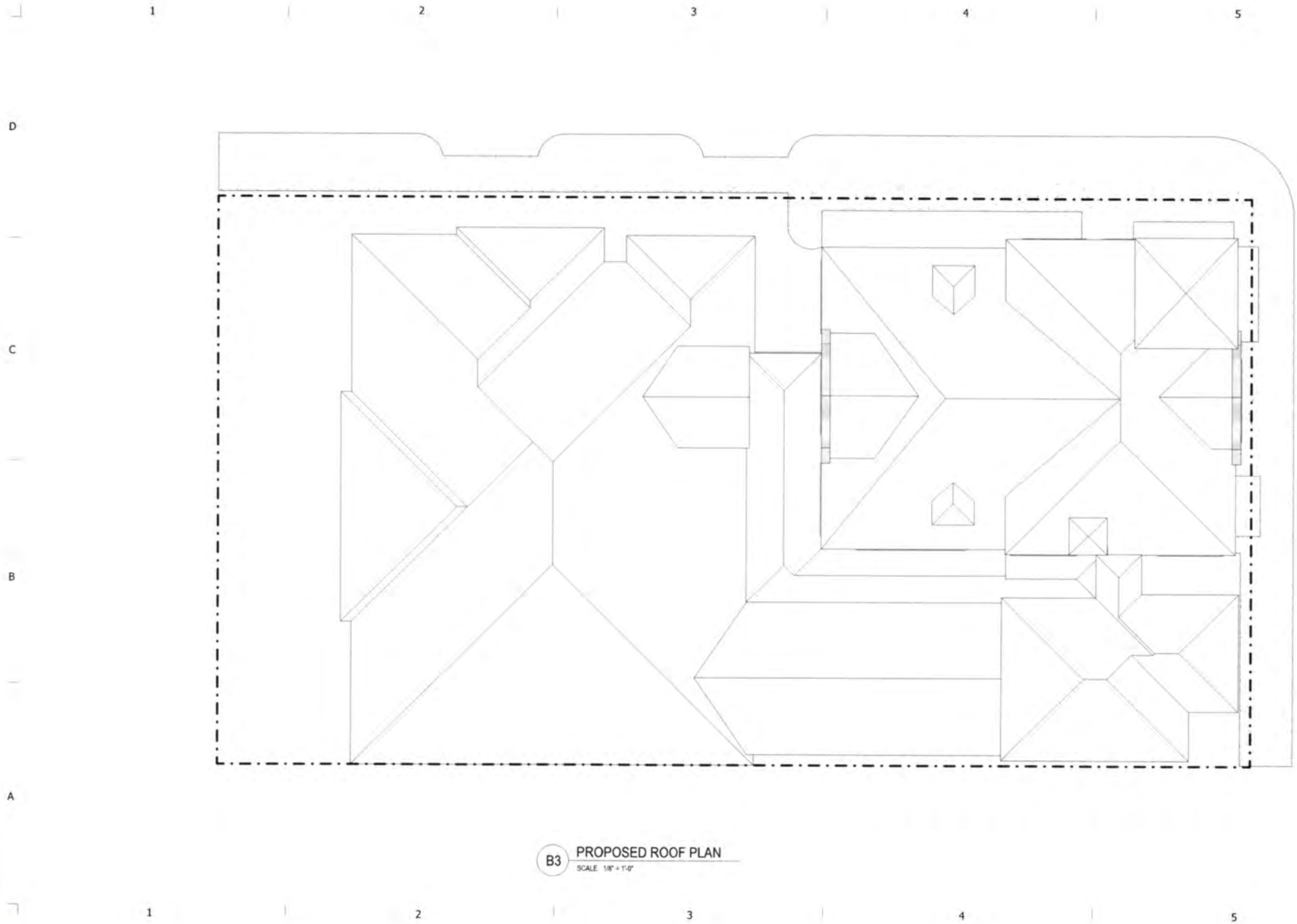
MARCH 1, 2020

MBF ARCHITECTS P.A. CERT NO. 50679 NEW BERN NC

MBFA No: 191

THIRD B FLOOR

AP104
SHEET



B3 PROPOSED ROOF PLAN
SCALE 1/8" = 1'-0"

mbf architects pa

New Bern City Hall. Elevator Annex
300 Pollock Street
New Bern, North Carolina

REVISIONS		
#	DATE	DESCRIPTION

MARCH 1, 2020

PRELIMINARY NOT FOR CONSTRUCTION 23 AUGUST 2019
MARCH 1, 2020

MBF ARCHITECTS P.A. CERT NO. 50679 NEW BERN NC

MBFA No: 191

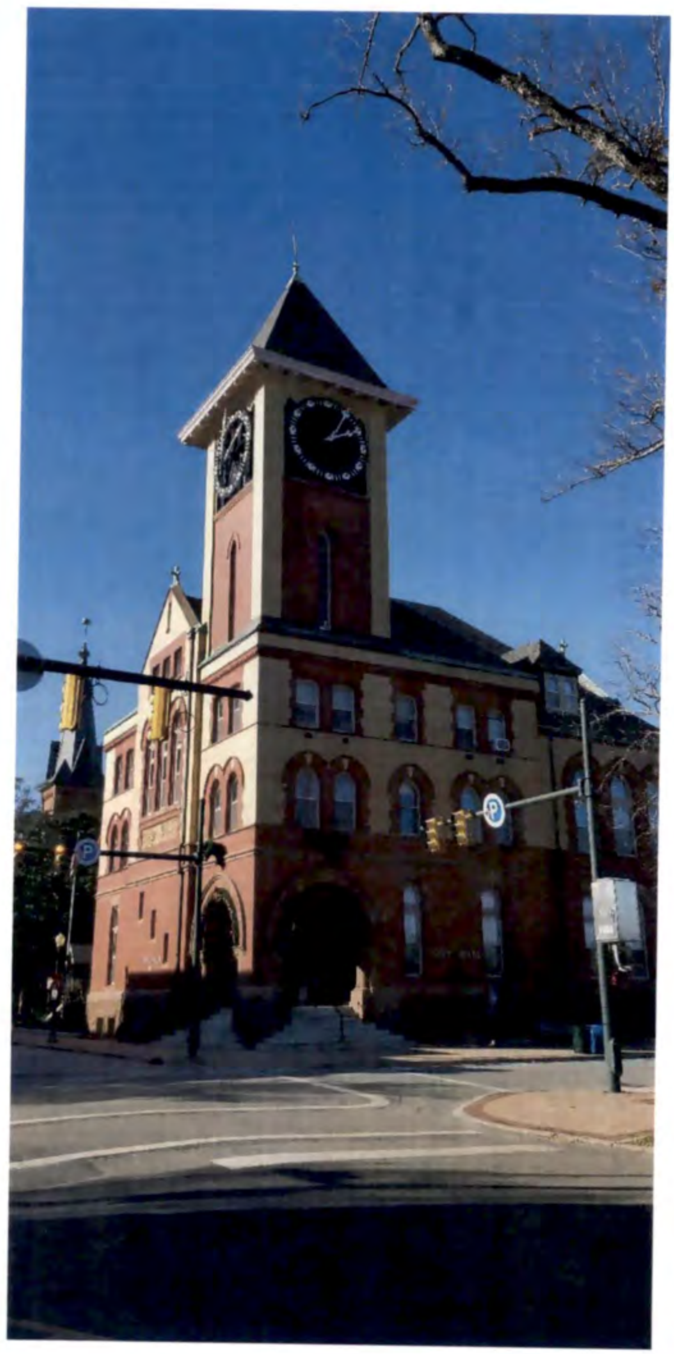
ROOF PLAN

AP105
SHEET

mbf
architects pa

317-C Pollock Street | New Bern, NC 28560
252.637.6373 | mbfarchitects.com

City Hall Elevator Annex



DARDEN JOHNSON EURE, III
REGISTERED ARCHITECT
8640
NORTH CAROLINA
NEW BERN, NC

November 15, 2019

MBF ARCHITECTS P.A.
REGISTERED ARCHITECTURAL CORPORATION
CERT. NO.
50679
NORTH CAROLINA
NEW BERN N.C.

Constructed between 1895 and 1897, City Hall began its life as the United States Post Office, Court House and Custom House. The clock tower was added circa 1910. The façade embodies a combination of Romanesque Revival and eclectic late Victorian stylistic elements as documented in Peter Sandbeck's The Historic Architecture of New Bern and Craven County, North Carolina. The City purchased this structure from the federal government in 1935 for use as the City Hall. Today's interior alterations and renovations were substantially completed circa 1987 through 1992.

Scope of Work

The scope of work for the City Hall Elevator Annex evaluation consists of three assessments. Concepts are investigated for locating an elevator at an interior location, within an elevator annex and within an administrative annex capable of housing personnel currently residing at the First Avenue offices. Each concept is accompanied by a detailed, line item estimate of probable cost. Ultimately, it is intended that accessibility within the historic building be improved, with elevator access to the second floor courtroom being the primary focus. Each concept attempts to minimize impact to the character and configuration of historic City Hall.

Interior Elevator Concept

The basement and three floors of City Hall were measured and documented in the field. Reference Sheet A-107. Evaluation of floor planning identified the vault area adjacent to the first floor reception space as being the most favorable location for an elevator internal to the historic building. Extending vertically from this location enables access from the basement through the third floor. Reference Sheet A-101. An exterior ramp creates an accessible route from the Pollock Street sidewalk to the first floor, penetrating the City Hall envelope to the north side of the Mayor's office and displacing a small staff toilet room. Reference Sheet A-102. Alterations required for the elevator shaft, and adjoining alterations and renovations for each floor level, have an aggregate total of about 2,991 square feet. Costs in this scenario are driven by unknown concealed conditions, tight working quarters, an occupied structure and matching interior finishes.

A project budget of $1,300,000 is recommended to accomplish this work, inclusive of contract award, contingency and design fee. Construction is anticipated to have a cost of about $369.85 per square foot.

City Hall Elevator Annex
City of New Bern
New Bern, Craven County

MBF Architects, P.A.
MBFA No: 1919

Project Budget
Interior Elevator Concept

October 31, 2019

Funds Available:		
Loan Monies:		
Grant Monies:		
Owner Funding/Cash Contribution:	$1,300,000	
	$1,300,000	
Loan Closing and Interim Interest:	$0	
	$1,300,000	
Land Acquisition **0.49 Acres at $0 per AC**	$0	Land Acquisition Previously Completed by Owner
	$1,300,000	
Cost Escalation* at: 0.0%	$0	
Contingency** at: 5.0%	$65,000	
Subtotal	$65,000	
	$1,235,000	
Architectural Fee: (Equivalent % Fee 14.50%)	$188,500	Lump Sum
	$1,046,500	
Furniture:	$0	
Special Equipment:	$0	
Landscaping:	$0	
Subtotal	$0	
Target Contract Awards:	$1,046,500	

*Cost escalation factors are used to approximate the increase in cost to be anticipated should the funding or design of a project be prolonged beyond one year. In general, most projects can be funded and designed in this amount of time. Otherwise historical construction data suggests that costs increase at the rate of 4% per year

**Contingency funds are used to pay for development permit application fees, site survey assessments and mapping, soil bearing capacity testing for foundation design, legal advertisements, special project installations such as furniture, equipment or landscaping, unit price compensation, unforeseen and concealed conditions, changes following construction contract awards and materials testing during construction to demonstrate contract compliance.

Cost Escalation Calculation:
(Nov '20 Origin / Unknown Bid Opening)
0.003333 per Month for 0 Months
OR 4% per Year

November	**2019**	**Date of Estimate, Estimates Valid for One Year**
November	**2020**	**Origin, Cost Escalation Begins**
	TBD	**Target Bid Opening Date**

Cost Escalation Schedule:

	Date of Estimate Construction Funds	November 2020	Adjusted Value for Deferred Funding Year 1 2021	Year 2 2022	Year 3 2023	Year 4 2024	Year 5 2025
Estimated Value	$1,300,000	$1,300,000	$1,352,000	$1,406,080	$1,462,323	$1,520,816	$1,581,649

City Hall Elevator Annex
City of New Bern
New Bern, Craven County

MBF Architects, P.A.
MBFA No: 1919

Alteration & Renovation Cost Estimate
Interior Elevator Concept

October 28, 2019

Gross Area, Total	2,991	SF
Area of Basement, Exist	355	SF
Area of First Floor, Exist	613	SF
Area of First Floor, New	707	SF
Area of Second Floor, Ex	588	SF
Area of Second Flr, New	0	SF
Area of Third Floor, Exist	728	SF
Area of Third Floor, New	0	SF
New Footprint Perimeter	202	LF
Lug Footer	0	LF
Strip Footer	202	LF
New Partition Strip Footer	0	LF
New Foundation Wall	202	LF
Foundation Wall Ht to FF	2	LF
Basement Wall Fl to Fl Ht	0	LF
New Column Spread Footers	0	EA
Existing Footprint Perimeter	492	Lf
Foundation Wall Ht to FF	4	LF
Existing Exterior Walls to Remain	492	LF
Exterior Stud Wall	0	LF
Exterior Masonry Wall	492	LF
Exterior Wall Demolition	21	LF
Existing Interior Walls to Remain	30	LF
Interior Stud Wall	0	LF
Interior Masonry Wall	30	LF
Interior Wall Demolition	73	LF
New Exterior Walls	0	LF
Exterior Stud Wall	0	LF
Exterior Masonry Wall	0	LF
New Interior Walls	125	LF
Interior Stud Partition	23	LF
1 Hour Stud Partition	0	LF
2 Hour Stud Partition	0	LF
Interior Masonry Partition	0	LF
Interior Masonry to Deck	102	LF
Eave Height	0	LF
Parapet Height	0	LF
Typ Floor to Floor Height	15	LF
Interior Partition Height	10	LF
Floor to Floor Height, Basement	8	LF
Existing Roof Area to Remain	0	SF
New Roof Area	0	SF
Existing Overhang & Soffit to Remain	0	LF
New Overhang & Soffit	0	LF
Existing Parapet Coping to Remain	0	LF
New Parapet Coping	0	LF
Exist Gross Window Area to Remain	0	SF
New Gross Window Area	0	SF
Existing Doors to Remain	22	EA
New Doors	6	EA
Parking Stalls	0	EA
Construction Limits	0.07	AC
Property Acreage	0.49	AC

AC	Acres
AL	Allowance
CF	Cubic Feet
CY	Cubic Yards
EA	Each
FL	Flight of Stairs
FX	Fixture
LF	Linear Feet
LS	Lump Sum
MH	Manhour
MO	Month
SF	Square Feet
ST	Stall
SY	Square Yard
TN	Ton

Duration of Construction	12	Months
Target Contract Awards	$1,045,000	

Advance Planning
(AP, SD, DD, CD or BN)

Potential Tenant: Interior elevator with a ramp
Development Concept: Achieve accessibility to floors basement through three with an itnterior elevator

Section	Description	Qty	Unit	Cost per Unit	Extension	Ck'd
GC	General Conditions (Gross Area, Total)	2,991	SF	$2.75	$8,225	
GC	Complex Job Factor $30,000 per $100,000	1	AL	$313,500.00	$313,500	
GC	Bond at 2.5%	1	AL	$26,334.00	$26,334	
GC	Insurance at 0.6%	1	AL	$6,270 00	$6,270	
GC	Building Permits at $6 per $1,000	1	AL	$6,270 00	$6,270	
GC	Temporary Utilities at $400 per $100,000	1	AL	$4,180.00	$4,180	
GC	Job Sign	1	EA	$1,000.00	$1,000	
GC	Job Trailer	12	MO	$350.00	$4,200	
GC	Equip Rental & Tools at $1,150 per $100,000	1	AL	$12,017.50	$12,018	
GC	Toilet Facilities (Construction Duration)	12	MO	$100.00	$1,200	
GC	Mobilization at $584 per $100,000	1	AL	$6,102 80	$6,103	
GC	Demobilization at $584 per $100,000	1	AL	$6,102.80	$6,103	
GC	Ren/Alt Trash Remove at $2,810 per $100,000	1	AL	$29,364 50	$29,365	
GC	Temporary Plastic Dust Protection	**40**	LF	$20.00	$800	
GC	Final Cleaning (Gross Area, Total)	2,991	SF	$0.41	$1,226	
GC	Contract Closeout at $100 per $100,000	1	AL	$1,045 00	$1,045	
GC	Superintendent (Construction Duration)	12	MO	$5,300.00	$63,600	
01 76 00	Temp Pedestrian Protection, Install and Remove	**2,284**	SF	$0.81	$1,850	
02 40 00	Interior Demolition (Interior Wall Demolition x Fl to Fl Height)	1,095	SF	$3.57	$3,909	
02 40 00	Interior Demolition, Doors and Frames	**6**	SF	$50 00	$300	
02 40 00	Interior Demolition, Sawcut Slab, Remove Concrete	**25**	SF	$6 17	$154	
02 40 00	Interior Demolition, Floor Finishes & Underlayment (Basement Exist)	355	SF	$6 88	$2,442	
02 40 00	Interior Demolition, Floor Finishes & Underlayment (1st Fl + Up Exist)	1,929	SF	$6 88	$13,272	
02 40 00	Interior Demolition, Subfloor, (1st Floor and Up Exist)	1,929	SF	$3.44	$6,636	
02 40 00	Interior Demolition, Plumbing Fixtures	**2**	FX	$250.00	$500	
02 40 00	Exterior Demolition, Brick Veneer (Ext Wall Demolition x Fl to Fl Ht)	315	SF	$1.00	$315	
02 40 00	Exterior Demolition, Stud or Block (Ext Wall Demoliton x Fl to Fl Ht)	315	SF	$8 00	$2,520	
02 40 00	Exterior Demolition, Doors & Windows	**1**	EA	$50 00	$50	
02 82 00	Air Monitoring	**0**	SF	$0.70	$0	
02 82 10	Asbestos Flooring Abatement	**0**	SF	$5.96	$0	
03 30 10	Expan Jt Filler, 0.5 inch by 4 inch, New	**6**	LF	$0.35	$2	
03 30 30	Concrete Reinforcement, New (Footprint Perim + Part Strip Footer)	202	LF	$24.15	$4,878	
03 30 40	CIP, Concrete Footings, 2'-2" Wide, New (Strip Foot Perim + Part)	202	LF	$61 00	$12,322	
03 30 40	CIP, Elevator Pit, New	**1**	EA	$7,000 00	$7,000	
03 30 40	CIP, Slab on Grade, 4 Inch (1st Floor New)	707	SF	$7 32	$5,175	
03 31 00	Concrete Testing	**1**	LS	$500.00	$500	
04 20 10	Mortar, Type S (1st Floor and Up New)	707	SF	$1.06	$749	
04 20 10	Masonry Sand (1st Floor and Up New)	707	SF	$0.67	$474	
04 20 10	Masonry Ties (1st Floor and Up New)	707	SF	$1.04	$735	
04 20 20	Concrete Masonry Units, New (LF Int Mas to Deck x Typ Fl to Fl)	1,530	SF	$14.51	$22,200	
04 20 20	Concrete Masonry Units, Retaining Walls, New	**1,010**	SF	$14.51	$14,655	
04 20 30	Brick Units, Retaining Walls, New (CMU Retaining Walls x 2)	2,020	SF	$15 49	$31,290	
04 50 00	Masonry Cleaning, Retaining Walls	**2,020**	SF	$0.40	$808	
05 00 00	Miscellaneous Metal (Gross Area, Total)	2,991	SF	$0.48	$1,436	
05 00 00	Steel Lintel, Remove and Replace	**4**	LF	$174.00	$696	
05 40 10	Non Struct, New, CF Mtl Furr (LF Int Mason x 2 Sides x Typ Part Ht)	2,040	SF	$3 50	$7,140	
05 40 10	Non Struct, New, CF Metal Framing (LF Int Stud x Typ Part Height)	230	SF	$3.50	$805	
05 40 10	Non Structural, New CF Metal Framing, Soffits and Bulkheads	**84**	SF	$3.50	$294	
05 50 00	Miscellaneous Metal Fabrications (Gross Area, Total)	2,991	LS	$0.08	$239	
06 10 20	Wood Fasteners & Adhesives (Gross Area, Total)	2,991	SF	$0 15	$449	
06 10 20	Floor Fram, 2x10 at 12" OC (1st Floor and Up Exist), Elev Shaft Rep	1,929	SF	$3.55	$6,848	
06 10 20	Subflooring, 0.75" (1st Floor and Up Exist)	1,929	SF	$4 45	$8,584	
06 20 10	Arch Trim, Wd Base Exist (LF Ext Wall + (LF Int Wall*2))	552	LF	$3.50	$1,932	
06 20 10	Arch Trim, Wd Base, New (LF Ext Wall + (LF Int Wall*2))	250	LF	$3.50	$875	
06 20 10	Arch Trim, Crown, Exist (LF Ext Wall + (LF Int Wall * 2))	552	LF	$5.50	$3,036	

06 20 10	Arch Trim, Crown, New (LF Ext Wall + (LF Int Wall * 2))	250	LF	$5 50	$1,375
06 20 10	Arch Trimwork, Door Frames and Casing (New Doors)	6	EA	$275.00	$1,650
06 20 10	Arch Trimwork, Safety Rails, New	23	EA	$50.00	$1,150
06 20 10	Arch Trimwork, Wood Entrances, New	250	SF	$15.00	$3,750
06 20 10	Arch Trimwork, Light Restoration Allowance (Basement Exist)	355	SF	$5 00	$1,775
06 20 10	Arch Trimwork, Light Restoration Allowance (1st Floor and Up Exist)	1,929	SF	$5.00	$9,645
07 17 00	Insulation, Acoustical, New (LF Int Stud Part Wall x Typ Part Ht)	230	SF	$2.81	$646
07 92 00	Caulking & Sealants (Gross Area, Total)	2,991	SF	$0 65	$1,944
08 14 20	Stile & Rail Wood Doors, New	6	EA	$732.57	$4,395
08 41 00	Aluminum Entrance Doors, New	1	EA	$1,764.50	$1,765
08 71 00	Finish Hardware (New Doors)	6	EA	$383.00	$2,298
08 71 10	Aluminum Entrance Hardware, New	1	EA	$2,050.00	$2,050
08 71 40	Panic Hardware, New	1	EA	$350.00	$350
09 24 10	Patch Plaster Walls, Exist ((Int Wall + Ext Wall) x Typ Part Ht)	7,830	SF	$9.00	$70,470
09 24 10	Patch Plaster Ceilings (Basement Exist)	355	SF	$9.00	$3,195
09 24 10	Patch Plaster Ceilings (1st Floor and Up Exist)	1,929	SF	$9 00	$17,361
09 29 10	Gypsum Bd, New, CF Int Wall Furr (Section 05 40 00 Mason to Deck)	2,040	SF	$3.42	$6,977
09 29 10	Gypsum Bd, New, CF Int Wall (Section 05 40 10 x Two Sides)	460	SF	$3.42	$1,573
09 29 10	Gypsum Bd, New, CF Soffits and Bulkheads (Section 05 40 10)	84	SF	$3.42	$287
09 61 00	Finsih Flooring Allowance (Basement Exist)	355	SF	$7.50	$2,663
09 61 00	Finsih Flooring Allowance (1st Floor and Up Exist)	1,929	SF	$7 50	$14,468
09 91 00	Int Paint, Exist ((LF Ext Wall + (2 x LF Int Wall)) * Int Part Wall Ht)	5,520	SF	$1.55	$8,556
09 91 00	Int Paint, New ((LF Ext Wall + (2 x LF Int Wall)) * Int Part Wall Ht)	2,500	SF	$1.55	$3,875
09 91 00	Interior Painting, New (Gypsum Bd, CF Soffits & Bulkheads)	84	SF	$1 55	$130
09 92 00	Repaint Prep, Exist ((LF Ext Wall + (2 x LF Int Wall)) * Int Pt Wall Ht)	5,520	SF	$0.60	$3,312
10 14 00	Signage, Interior, (Exist Doors)	22	EA	$142.58	$3,137
10 14 00	Signage, Interior, (New Doors)	6	EA	$142 58	$855
10 15 00	Cast Bronze Plaque, New	1	EA	$2,000.00	$2,000
14 24 00	Elevator, Engineering, New	1	LS	$3,787 00	$3,787
14 24 00	Elevator, Traction per Floor, New	4	EA	$20,000 00	$80,000
26 10 10	Main Distribution Panel, New, Connect Exist & Addition Services	1	EA	$3,500 00	$3,500
31 23 00	Excavating & Detail Grading, New (Footprint Perim + Part Footer)	202	LF	$5.40	$1,091
31 25 00	Soils Testing, New	1	LS	$500.00	$500
31 31 00	Termite Treatment (1st Floor New)	707	SF	$0.75	$530
32 12 20	Site Walks & Improvements, Remove and Replace	25	SF	$23.55	$589
32 12 30	Site Concrete Testing, New	1	LS	$500.00	$500
33 05 00	Water Test and Chlorinate, New	1	LS	$1,500.00	$1,500
33 05 00	Sewer Test, New	1	LS	$600.00	$600
33 10 00	Elevator Oil Interceptor, 1000 Gallons, New	1	EA	$4,850.00	$4,850
			SF	$309.46	$925,608

22 00 00	Plumbing Alts, Rens & Replacements (1st Floor and Up Exist)	1,929	SF	$12.84	$24,768
23 00 00	Mechanical Alts, Rens & Replacements (1st Floor and Up Exist)	1,929	SF	$26.29	$50,713
26 00 00	Electrical Alts, Rens & Replacements (1st Floor and Up Exist)	1,929	SF	$21 26	$41,011
			SF	$60 39	$116,492

Estimated Cost		$1,042,100	
Probable Deviation Amount	5%	$52,105	
Anticipated Base Bid Range-High		$1,094,205	to
Anticipated Base Bid Range-Low		$989,995	

Elevator Annex Concept

An internal elevator solves the problem of accessibility to the second floor courtroom space; however, it fails to address the need for accessible toilet facilities. A common strategy for upgrading historic building accessibility without incurring the expense, disruption or loss of interior assignable space is to construct an external structure that is separate and self contained. Reference Sheet A-103. The annex footprint accommodates four vertical shafts that access the first floor through the third floor. One shaft each contains an elevator, egress stair, toilets and administrative space. The need for a ramp is avoided by utilizing a two door elevator and a half stop to the first floor, enabling public sidewalk access directly from Pollock Street. Elevator access to upper floors is achieved with conventional vertical stops. The annex connects to the historic building via bridges that penetrate the City Hall envelope to the north side of the Mayor's office, displacing small staff toilet rooms at the first and second floors, and displacing a small administrative space at the third floor. Alterations required for the bridge connections, and construction of the elevator annex at each floor level, have an aggregate total of about 3,480 square feet. Costs in this scenario are minimized by reducing exposure to the inherent risks of an interior elevator concept; however, the larger ratio of exterior wall surface area relative to interior floor space, and the concentration of machinery and plumbing increase the cost per square foot.

A project budget of $2,160,000 is recommended to accomplish this work, inclusive of contract award, contingency and design fee. Construction is anticipated to have a cost of about $530.03 per square foot.

City Hall Elevator Annex
City of New Bern
New Bern, Craven County

MBF Architects, P.A.
MBFA No: 1919

Project Budget
Elevator Annex Concept

October 31, 2019

Funds Available.			
Loan Monies.			
Grant Monies.			
Owner Funding/Cash Contribution:		$2,160,000	
		$2,160,000	
Loan Closing and Interim Interest:		$0	
		$2,160,000	
Land Acquisition: 0.49 Acres at $0 per AC		$0	Land Acquisition Previously Completed by Owner
		$2,160,000	
Cost Escalation* at:	0.0%	$0	*Cost escalation factors are used to approximate the increase in cost to be anticipated should the funding or design of a project be prolonged beyond one year. In general, most projects can be funded and designed in this amount of time. Otherwise, historical construction data suggests that costs increase at the rate of 4% per year
Contingency** at:	5.0%	$108,000	
	Subtotal:	$108,000	
		$2,052,000	
Architectural Fee: (Equivalent % Fee 9.50%)		$205,200	Lump Sum
		$1,846,800	**Contingency funds are used to pay for development permit application fees, site survey assessments and mapping, soil bearing capacity testing for foundation design, legal advertisements, special project installations such as furniture, equipment or landscaping, unit price compensation, unforeseen and concealed conditions, changes following construction contract awards and materials testing during construction to demonstrate contract compliance
Furniture:		$0	
Special Equipment:		$0	
Landscaping:		$0	
	Subtotal:	$0	
Target Contract Awards:		$1,846,800	

Cost Escalation Calculation:
(Nov '20 Origin / Unknown Bid Opening)
0.003333 per Month for 0 Months
OR 4% per Year

November	2019	Date of Estimate, Estimates Valid for One Year
November	2020	Origin, Cost Escalation Begins
	TBD	Target Bid Opening Date

Cost Escalation Schedule:

	Date of Estimate		Adjusted Value for Deferred Funding				
	Construction Funds	November 2020	Year 1 2021	Year 2 2022	Year 3 2023	Year 4 2024	Year 5 2025
Estimated Value	$2,160,000	$2,160,000	$2,246,400	$2,336,256	$2,429,706	$2,526,894	$2,627,970

City Hall Elevator Annex
City of New Bern
New Bern, Craven County

MBF Architects, P.A.
MBFA No: 1919

Construction Cost Estimate
Elevator Annex Concept

October 28, 2019

Gross Area, Total	3,480	SF
Area of Basement	0	SF
Area of First Floor	1,160	SF
Area of Second Floor	1,160	SF
Area of Third Floor	1,160	SF
Footprint Perimeter	148	LF
Lug Footer	8	LF
Strip Footer	140	LF
Partition Strip Footer	51	LF
Foundation Wall	140	LF
Foundation Wall Ht to FF	5	LF
Basement Wall Fl to Fl Ht	0	LF
Column Spread Footers	0	EA
Exterior Walls	420	LF
Exterior Stud Wall	0	LF
Exterior Masonry Wall	420	LF
Interior Walls	783	LF
Interior Stud Partition	630	LF
1 Hour Stud Partition	0	LF
2 Hour Stud Partition	0	LF
Interior Masonry Partition	0	LF
Interior Masonry to Deck	153	LF
Eave Height	45	LF
Parapet Height	0	LF
Typ Floor to Floor Height	15	LF
Interior Partition Height	10	LF
Floor to Floor Height, Basement	0	LF
Gross Roof Area	3,480	SF
Roof Overhang & Soffit	148	LF
Parapet Coping	0	LF
Gross Window Area	45	SF
Doors	14	EA
Parking Stalls	0	EA
Construction Limits	0.07	AC
Property Acreage	0.49	AC

AC	Acres
AL	Allowance
CF	Cubic Feet
CY	Cubic Yards
EA	Each
FL	Flight of Stairs
FX	Fixture
LF	Linear Feet
LS	Lump Sum
MH	Manhour
MO	Month
SF	Square Feet
ST	Stall
SY	Square Yard
TN	Ton

Duration of Construction	9	Months
Target Contract Awards	$1,845,000	

Advance Planning
(AP, SD, DD, CD or BN)

Potential Tenant: Accessible facilities without a ramp
Development Concept: Achieve accessibility to floors one through three by flanking an elevator with toilet facilities outside the historic building footprint

Section	Description	Qty	Unit	Cost per Unit	Extension	Ck'd
GC	General Conditions (Gross Area, Total)	3,480	SF	$2.75	$9,570	
GC	Small Scope Factor $10,000 per $100,000	1	AL	$184,500.00	$184,500	
GC	Bond at 2.3%	1	AL	$42,435.00	$42,435	
GC	Insurance at 0 6%	1	AL	$11,070 00	$11,070	
GC	Building Permits at $6 per $1,000	1	AL	$11,070.00	$11,070	
GC	Surveying (Gross Area, Total)	3,480	SF	$0.34	$1,183	
GC	Temporary Utilities at $400 per $100,000	1	AL	$7,380 00	$7,380	
GC	Job Sign	1	EA	$1,000.00	$1,000	
GC	Job Trailer	9	MO	$350.00	$3,150	
GC	Multi Story Equip Rent at $2,800 per $100,000	1	AL	$51,660.00	$51,660	
GC	Toilet Facilities (Construction Duration)	9	MO	$100.00	$900	
GC	Mobilization at $584 per $100,000	1	AL	$10,774 80	$10,775	
GC	Demobilization at $584 per $100,000	1	AL	$10,774.80	$10,775	
GC	Trash Removal at $1,349 per $100,000	1	AL	$24,889.05	$24,889	
GC	Temporary Plastic Dust Protection	20	LF	$20.00	$400	
GC	Final Cleaning (Gross Area, Total)	3,480	SF	$0.41	$1,427	
GC	Contract Closeout at $100 per $100,000	1	AL	$1,845.00	$1,845	
GC	Superintendent (Construction Duration)	9	MO	$5,300 00	$47,700	
	Renovations in Adjoining City Hall for Corridor Connections	223	SF	$250.00	$55,750	
01 50 10	Silt Fencing	159	LF	$6.98	$1,110	
01 50 10	Temp Seed & Mulch Construction Limits (Dress Grading)	210	SY	$0.27	$57	
01 76 00	Temp Pedestrian Protection, Install & Remove	159	SF	$0.81	$129	
01 76 00	Temp Covered Walkway Pedestrian Protection, Install & Remove	320	SF	$3.55	$1,136	
03 30 00	Concrete Accessories (Gross Area, Total)	3,480	SF	$0.30	$1,044	
03 30 10	Fiber Reinforced Vapor Barrier (First Floor Area)	1,160	SF	$0 50	$580	
03 30 10	Expansion Joint Filler, 0 5 inch by 4 inch	45	LF	$0.35	$16	
03 30 10	Sawcut Concrete Control Joints	24	LF	$3.00	$72	
03 30 20	Concrete Formwork (Lug Footer)	8	LF	$25 06	$200	
03 30 30	Concrete Reinforcement (Footprint Perim + Part Strip Footer)	199	LF	$24 15	$4,806	
03 30 40	CIP, Lug Footings, 1.7 SF X-Sec (Lug Footer)	8	LF	$136.00	$1,088	
03 30 40	CIP, Concrete Footings, 2'-2" Wide (Strip Foot Perim + Part)	191	LF	$61 00	$11,651	
03 30 40	CIP, Elevator Pit	1	EA	$7,000.00	$7,000	
03 30 40	CIP, Interior Steps	72	SF	$24.24	$1,745	
03 30 40	CIP, Slab on Grade, 4 Inch (First Floor)	1,160	SF	$7 32	$8,491	
03 30 40	CIP, Elevated Slab, 4 Inch (Sum of 2nd Floor and Up)	2,320	SF	$4.23	$9,814	
03 31 00	Concrete Testing	1	LS	$500.00	$500	
04 20 00	Mortar & Masonry Access (Gross Area, Total)	3,480	SF	$1 72	$5,986	
04 20 20	Concrete Masonry Units (LF Found Wall x Typ Found Ht x 2)	1,400	SF	$14.51	$20,314	
04 20 20	Concrete Masonry Units (LF Ext Mas Wall x Typ Fl to Fl Ht)	6,300	SF	$14.51	$91,413	
04 20 20	Concrete Mason to Deck (LF Int Mas Deck x Typ Fl to Fl Ht)	2,295	SF	$14.51	$33,300	
04 20 20	Cut Masonry Control Joints (Perimeter/25')*Eave Ht	266	LF	$8.45	$2,251	
04 20 30	Brick Units (LF Ext Wall x Typ Fl to Fl Ht)	6,300	SF	$15 49	$97,587	
04 20 40	Architectural Masonry	740	SF	$3 40	$2,516	
04 50 00	Masonry Cleaning (LF Footprint Perimeter x Foundation Ht)	740	SF	$0 40	$296	
04 50 00	Masonry Cleaning (LF Ext Wall x Typ Fl to Fl)	6,300	SF	$0.40	$2,520	
05 00 00	Miscellaneous Metal (Gross Area, Total)	3,480	SF	$0.48	$1,670	
05 00 00	Hot Dipped Galvanized Steel Lintels	27	LF	$25.00	$675	
05 10 10	Structural Steel (First Floor)	1,160	SF	$17 15	$19,894	
05 10 10	Connecting Bridge Structures	168	SF	$33.60	$5,645	
05 10 10	Structural Steel, Multiple Stories (Sum of 2nd Floor and Up)	2,320	SF	$6 50	$15,080	
05 10 30	Steel Decking (Gross Roof Area)	3,480	SF	$3.50	$12,180	
05 10 30	Steel Decking (Second Floor and Up)	2,320	SF	$3.50	$8,120	
05 10 40	Steel Testing	1	LS	$500 00	$500	
05 40 10	Non Structural CF Metal Framing (LF Int Stud * Typ Part Height)	6,300	SF	$3.50	$22,050	
05 40 20	Non Structural CF Metal Framing, Soffits and Bulkheads	549	SF	$14.57	$7,999	

05 40 30	CF Metal Framing, LG Metal Truss Engineering	1	LS	$2,000.00	$2,000
05 40 30	CF Metal Framing, LG Metal Trusses (Gross Roof Area)	3,480	SF	$14.28	$49,694
05 40 30	CF Metal Framing, LG Metal Truss Equipment	1	LS	$2,800.00	$2,800
05 50 00	Miscellaneous Metal Fabrications (Gross Area, Total)	3,480	LS	$0.08	$278
05 50 00	Metal Fabrications, Hand Rails	102	LF	$95.00	$9,690
05 50 00	Metal Fabrications, Rail Balustrades	91	LF	$190.00	$17,290
05 50 00	Metal Fabrications, Stair Flights	7	EA	$13,265.00	$92,855
06 20 10	Arch Trimwork, Sills and Casing (Gross Window Area)	45	SF	$12 20	$549
06 20 10	Arch Trimwork, Safety Rails	1	EA	$50.00	$50
06 20 20	Millwork, Base Cabinet, Wall Cabinet, Wall Shelves	42	LF	$753.65	$31,653
07 11 00	Through Wall Flashing (LF Exterior Wall x 2)	840	LF	$4.17	$3,503
07 15 00	Insulation, Rigid (Footprint Perimeter)	148	LF	$4.00	$592
07 15 00	Insulation, Rigid (LF Ext Wall x Typ Fl to Fl Ht)	6,300	SF	$6.25	$39,375
07 16 00	Spray Foam Insulation, Closed Attic (Roof Area)	3,480	SF	$9.03	$31,424
07 16 00	Spray Foam Insul, Wall/Roof Juncture, 2' Width (Footprint Perim x 2)	296	SF	$9.03	$2,673
07 17 00	Insulation, Acoustical (LF Int Part Wall x Typ Part Ht)	6,300	SF	$2 81	$17,703
07 25 00	Air & Moisture Barrier Underlay (LF Ext Wall x Typ Fl to Fl Ht)	6,300	SF	$1 64	$10,332
07 25 00	Air & Moisture Barrier Underlayment (Gross Roof Area)	3,480	SF	$1.64	$5,707
07 26 00	Roof Accessories, Vent Stacks	1	EA	$25.00	$25
07 26 10	Roof Accessories, Roof Hatch, 2.5' x 3'	1	EA	$1,055.00	$1,055
07 26 20	Roof Accessories, Harnes Anchor Post	1	EA	$966.67	$967
07 26 20	Roof Accessories, Harness, Lanyard & Lifeline Set	2	EA	$2,000.00	$4,000
07 61 00	Sheet Metal Roofing (Gross Roof Area)	3,480	SF	$10.17	$35,392
07 61 00	Sheet Metal Roofing, Warranty (Gross Roof Area)	3,480	SF	$0.39	$1,357
07 62 20	Flash & Sht Mtl, Gutter and Downspouts (Roof Overhang & Soffit)	148	LF	$10.42	$1,542
07 92 00	Caulking & Sealants (Gross Area, Total)	3,480	SF	$0.65	$2,262
07 92 10	Caulking & Sealants, CJ/EJ (Cut Masonry Control Joints)	266	LF	$5 19	$1,383
07 92 10	Caulk & Seal, Store & Curtain Wall (Alum Entrance+Wind+CW)	825	SF	$0.91	$751
08 11 00	Hollow Metal Frames (Doors)	9	EA	$326 87	$2,942
08 11 00	Hollow Metal Doors	0	EA	$225 00	$0
08 11 10	Fiberglass Entry Doors & Frames	0	EA	$1,800 00	$0
08 14 10	Flush Wood Doors (Doors-(HM+Fiber+Alum Doors)	9	EA	$226.28	$2,037
08 41 00	Aluminum Entrance Doors	5	EA	$1,764.50	$8,823
08 41 10	Aluminum Storefront Entrance	240	SF	$95.15	$22,836
08 41 20	Aluminum Windows (Windows)	45	SF	$51.57	$2,321
08 41 30	Aluminum Curtain Wall System	540	SF	$50.31	$27,167
08 71 00	Finish Hardware (Doors)	14	EA	$383 00	$5,362
08 71 10	Aluminum Entrance Hardware	5	EA	$2,050.00	$10,250
08 71 40	Panic Hardware	5	EA	$350.00	$1,750
08 80 10	Glass & Glazing (Doors)	14	EA	$56.33	$789
08 80 10	Entrance Glass & Glazing (Aluminum Entrances)	240	SF	$23.25	$5,580
08 80 10	Insulated Glass & Glazing (Aluminum Windows)	45	SF	$23.25	$1,046
08 80 10	Insulated Glass & Glazing (Aluminum Curtain Wall)	540	SF	$23.25	$12,555
09 25 00	Veneer Plaster System	95	SF	$4 25	$404
09 26 00	Acrylic Coating	95	SF	$6.33	$601
09 29 10	Gypsum Bd, CF Int Wall Furring (Section 05 40 00 x One Side)	6,300	SF	$3.42	$21,546
09 29 10	Gypsum Bd, CF Soffits and Bulkheads (Section 05 40 10)	549	SF	$3.42	$1,878
09 30 20	Ceramic Tile Flooring	810	SF	$15.62	$12,652
09 30 20	Ceramic Tile Wainscoat	2,142	SF	$15.62	$33,458
09 51 00	Acoustical Tile Ceilings (Gross Floor Area)	3,480	SF	$2.62	$9,118
09 61 20	Rubber Wall Base (LF Ext Wall + (LF Int Wall * 2))	1,986	LF	$1 25	$2,483
09 61 50	Luxury Vinyl Tile	2,370	SF	$4.00	$9,480
09 91 00	Int Paint ((LF Ext Wall + (2 x LF Int Wall)) * Int Part Wall Ht)	19,860	SF	$1.55	$30,783
09 91 00	Interior Painting, CF Soffits & Bulkheads (Section 05 40 10)	549	SF	$1.55	$851
10 14 00	Signage, Interior (Doors)	14	EA	$142.58	$1,996
10 15 00	Cast Bronze Plaque	1	EA	$2,000 00	$2,000
10 21 00	Toilet Partitions, per Stall	15	ST	$1,170 00	$17,550
10 28 00	Toilet & Bath Accessories	33	FX	$204.48	$6,748
10 44 00	Fire Extinguisher Cabinets	3	EA	$542 50	$1,628
12 21 00	Window Treatment, Blinds (Windows)	45	SF	$3.64	$164
12 21 00	Window Treatment, Bluestone Sills (Windows)	45	SF	$2.18	$98
12 37 00	Solid Surface Countertops	42	LF	$22.50	$945
14 24 00	Elevator, Engineering	1	LS	$3,787 00	$3,787
14 24 00	Elevator, Hydraulic per Floor	3	EA	$30,589 00	$91,767

26 10 00	Electric Utilities	50	LF	$28.00	$1,400
26 10 10	Main Distribution Panel, Connect Exist & Addition Services	1	EA	$3,500.00	$3,500
31 22 00	Building Pad & Site Improvements Staking (Construction Limits)	0.07	AC	$740.38	$52
31 22 00	Site Prep, Stripping ((AC x 43560 SF x 0.5 FT Depth)/27 CF))	56	CY	$7.06	$399
31 22 00	Site Prep, Compact Subgrade (First Floor Area / 9 SF)	129	SY	$3.82	$492
31 22 00	Site Prep, Replacement Backfill to Original Grade (Stripping)	56	CY	$34.36	$1,940
31 22 00	Site Prep, Building Pad, (First Flr Area x 7 FT Depth)/27 CF	301	CY	$14.00	$4,210
31 22 00	Site Prep, Dress Grading (Acers*4840)-(First Fl Area/9)	210	SY	$2.70	$567
31 23 00	Excavating & Detail Grading (Footprint Perim + Found Wall)	288	LF	$5.40	$1,555
31 23 00	Underslab Drainage Stone, No. 67 NCDoT, 4 Inches (1st Flr)	1,160	SF	$0.50	$580
31 25 00	Soils Testing	1	LS	$500.00	$500
31 31 00	Termite Treatment (First Floor Area)	1,160	SF	$0.75	$870
32 12 00	Construction Staking (Construction Limits)	0.07	AC	$1,082.81	$76
32 12 20	Site Walks & Improvements	160	SF	$6.06	$970
32 12 30	Site Concrete Testing	1	LS	$500.00	$500
32 90 10	Perm Seed & Mulch Construction Limits (Dress Grading)	210	SY	$0.90	$189
33 05 00	Water Test and Chlorinate	1	LS	$1,500.00	$1,500
33 05 00	Sewer Test	1	LS	$600.00	$600
33 10 00	Sewer 4" Cleanout w/ 2' x 2' x 6" Conc Pad, 100 FT Intervals	2	EA	$250.00	$500
33 10 00	Elevator Oil Interceptor, 1000 Gallons	1	EA	$4,850.00	$4,850
33 30 00	Concrete Water Meter Vault	1	EA	$10,093.00	$10,093
33 30 00	Water Main Tap and Saddle, 8"	1	EA	$3,850.00	$3,850
33 30 00	Backflow Preventer, 2"	1	EA	$3,000.00	$3,000
33 30 00	Water Utilities, 2" PVC	50	LF	$28.60	$1,430
33 30 00	Water Utilities, 2" Fittings	4	EA	$150.00	$600
33 30 00	Water Utilities, 2" Valve	2	EA	$225.00	$450
33 30 00	Sewer Utilities, 6" PVC Including Fittings	50	LF	$12.00	$600
			SF	$471.98	$1,642,481
22 00 00	Plumbing	3,480	SF	$11.40	$39,672
23 00 00	Mechanical	3,480	SF	$21.03	$73,184
26 00 00	Electrical	3,480	SF	$21.30	$74,124
28 31 00	Fire Alarm System	3,480	SF	$4.32	$15,034
			SF	$58.05	$202,014

Estimated Cost		$1,844,495	
Probable Deviation Amount	5%	$92,225	
Anticipated Base Bid Range-Low		$1,752,270	to
Anticipated Base Bid Range-High		$1,936,719	

Administrative Annex Concept

An external elevator annex solves the problem of accessibility to the second floor courtroom space and need for accessible toilet facilities; however, it fails to integrate accessibility with building security, particularly as it relates to courtroom use and securing administrative areas within the historic building. Consolidating City staff from satellite locations creates the opportunity for enhanced staff coordination, public convenience of a single stop for multiple services, divestment of inefficient satellite facilities and reduced maintenance costs. The First Avenue offices encompass approximately 14,300 square feet.

The administrative annex concept addresses the need to provide accessibility for the historic building while simultaneously accommodating growth in an external structure that is separate and self contained. The elevator moves to the north side of the historic building and connects to the courtroom within an atrium, creating a direct route from the Craven Street entrance that is separated from surrounding administrative areas. Reference Sheets A-104 through A-106. A second elevator at the Pollock Street entrance is only warranted if accessible access is required for the third floor of the historic building. Connections are made via bridges within the atrium that penetrate the City Hall envelope in the same locations as the elevator annex concept. Alterations required for the bridge connections, and construction of the administrative annex at each floor level, have an aggregate total of about 22,440 square feet. Costs in this scenario are minimized by increasing the interior space relative to exterior wall surface area, and enclosing the footprint with the historic building façade, eliminating construction of the north and west exterior walls.

A project budget of $6,575,000 is recommended to accomplish this work, inclusive of contract award, contingency and design fee. Construction is anticipated to have a cost of about $254.98 per square foot.

City Hall Elevator Annex
City of New Bern
New Bern, Craven County

MBF Architects, P.A.
MBFA No: 1919

Project Budget
Administrative Annex Concept

October 31, 2019

Funds Available:			
Loan Monies			
Grant Monies			
Owner Funding/Cash Contribution:		$6,575,000	
		$6,575,000	
Loan Closing and Interim Interest:		$0	
		$6,575,000	
Land Acquisition: **0.49 Acres at $0 per AC**		$0	Land Acquisition Previously Completed by Owner
		$6,575,000	
Cost Escalation* at:	0.0%	$0	*Cost escalation factors are used to approximate the increase in cost to be anticipated should the funding or design of a project be prolonged beyond one year. In general, most projects can be funded and designed in this amount of time. Otherwise, historical construction data suggests that costs increase at the rate of 4% per year
Contingency** at:	5.0%	$328,750	
	Subtotal	$328,750	
		$6,246,250	
Architectural Fee: (Equivalent % Fee 8.50%)		$558,875	Lump Sum
		$5,687,375	**Contingency funds are used to pay for development permit application fees, site survey assessments and mapping, soil bearing capacity testing for foundation design, legal advertisements, special project installations such as furniture, equipment or landscaping, unit price compensation, unforeseen and concealed conditions, changes following construction contract awards and materials testing during construction to demonstrate contract compliance
Furniture:		$0	
Special Equipment:		$0	
Landscaping:		$0	
	Subtotal	$0	
Target Contract Awards:		$5,687,375	

Cost Escalation Calculation:
(Nov '20 Origin / Unknown Bid Opening)
0.003333 per Month for 0 Months
OR 4% per Year

November	**2019**	**Date of Estimate. Estimates Valid for One Year**
November	**2020**	**Origin. Cost Escalation Begins**
	TBD	**Target Bid Opening Date**

Cost Escalation Schedule:

	Date of Estimate		Adjusted Value for Deferred Funding				
	Construction Funds	November 2020	Year 1 2021	Year 2 2022	Year 3 2023	Year 4 2024	Year 5 2025
Estimated Value	$6,575,000	$6,575,000	$6,838,000	$7,111,520	$7,395,981	$7,691,820	$7,999,493

City Hall Elevator Annex
City of New Bern
New Bern, Craven County

MBF Architects, P.A.
MBFA No: 1919

Construction Cost Estimate
Administrative Annex Concept

October 30, 2019

Gross Area, Total	22,404	SF
Area of Basement	**0**	SF
Area of First Floor	**11,324**	SF
Area of Second Floor	**9,920**	SF
Area of Third Floor	**1,160**	SF
Footprint Perimeter	414	LF
Lug Footer	**50**	LF
Strip Footer	**364**	LF
Partition Strip Footer	**530**	LF
Foundation Wall	364	LF
Foundation Wall Ht to FF	**5**	LF
Basement Wall Fl to Fl Ht	**0**	LF
Column Spread Footers	**38**	EA
Exterior Walls	728	LF
Exterior Stud Wall	**0**	LF
Exterior Masonry Wall	**728**	LF
Interior Walls	1,060	LF
Interior Stud Partition	**262**	LF
1 Hour Stud Partition	**0**	LF
2 Hour Stud Partition	**0**	LF
Interior Masonry Partition	**0**	LF
Interior Masonry to Deck	**798**	LF
Eave Height	**35**	LF
Parapet Height	**3**	LF
Typ Floor to Floor Height	**15**	LF
Interior Partition Height	**10**	LF
Floor to Floor Height, Basement	**0**	LF
Gross Roof Area	**11,464**	SF
Roof Overhang & Soffit	**148**	LF
Parapet Coping	**350**	LF
Gross Window Area	**1,987**	SF
Doors	**64**	EA
Parking Stalls	**0**	EA
Construction Limits	**0.49**	AC
Property Acreage	**0.49**	AC

AC	Acres
AL	Allowance
CF	Cubic Feet
CY	Cubic Yards
EA	Each
FL	Flight of Stairs
FX	Fixture
LF	Linear Feet
LS	Lump Sum
MH	Manhour
MO	Month
SF	Square Feet
ST	Stall
SY	Square Yard
TN	Ton

Duration of Construction	**12**	Months
Target Contract Awards	**$5,685,000**	

Advance Planning
(AP, SD, DD, CD or BN)

Potential Tenant: Accessible facilities without a ramp
Development Concept: Achieve accessibility to administrative areas at floors one through three and the second floor courtroom by caressing the historic building with a building annex and Craven Street main entrance

Section	Description	Qty	Unit	Cost per Unit	Extension	Ck'd
GC	General Conditions (Gross Area, Total)	22,404	SF	$2.75	$61,611	
GC	Bond at 2.3%	1	AL	$130,755.00	$130,755	
GC	Insurance at 0 6%	1	AL	$34,110 00	$34,110	
GC	Building Permits at $6 per $1,000	1	AL	$34,110.00	$34,110	
GC	Surveying (Gross Area, Total)	22,404	SF	$0.34	$7,617	
GC	Temporary Utilities at $400 per $100,000	1	AL	$22,740.00	$22,740	
GC	Job Sign	1	EA	$1,000 00	$1,000	
GC	Job Trailer	12	MO	$350.00	$4,200	
GC	Multi Story Equip Rent at $2,800 per $100,000	1	AL	$159,180.00	$159,180	
GC	Toilet Facilities (Construction Duration)	12	MO	$100.00	$1,200	
GC	Mobilization at $584 per $100,000	1	AL	$33,200.40	$33,200	
GC	Demobilization at $584 per $100,000	1	AL	$33,200 40	$33,200	
GC	Trash Removal at $1,349 per $100,000	1	AL	$76,690 65	$76,691	
GC	Temporary Plastic Dust Protection	20	LF	$20.00	$400	
GC	Final Cleaning (Gross Area, Total)	22,404	SF	$0.41	$9,186	
GC	Contract Closeout at $100 per $100,000	1	AL	$5,685.00	$5,685	
GC	Superintendent (Construction Duration)	12	MO	$5,300.00	$63,600	
	Renovations in Adjoining City Hall for Corridor Connections	275	SF	$250 00	$68,750	
01 50 10	Gravel Construction Entrance	19	CY	$52 63	$1,000	
01 50 10	Silt Fencing	429	LF	$6.98	$2,994	
01 76 00	Temp Pedestrian Protection, Install & Remove	429	SF	$0.81	$347	
01 76 00	Temp Covered Walkway Pedestrian Protection, Install & Remove	820	SF	$3.55	$2,911	
02 40 00	Exterior Demolition, Asphalt	10,758	SF	$1.63	$17,536	
02 40 00	Exterior Demolition, Demolish Curb	75	LF	$10.00	$750	
03 30 00	Concrete Accessories (Gross Area, Total)	22,404	SF	$0.30	$6,721	
03 30 10	Fiber Reinforced Vapor Barrier (First Floor Area)	11,324	SF	$0 50	$5,662	
03 30 10	Expansion Joint Filler, 0 5 inch by 4 inch	95	LF	$0.35	$33	
03 30 10	Sawcut Concrete Control Joints	498	LF	$3.00	$1,494	
03 30 20	Concrete Formwork (Lug Footer)	50	LF	$25 06	$1,253	
03 30 30	Concrete Reinforcement (Footprint Perim + Part Strip Footer)	944	LF	$24 15	$22,798	
03 30 40	CIP, Lug Footings, 1 7 SF X-Sec (Lug Footer)	50	LF	$136 00	$6,800	
03 30 40	CIP, Concrete Footings, 2'-2" Wide (Strip Foot Perim + Part)	894	LF	$61.00	$54,534	
03 30 40	CIP, Spread Footings (Column Spread Footers)	38	EA	$600.00	$22,800	
03 30 40	CIP, Elevator Pit	2	EA	$7,000 00	$14,000	
03 30 40	CIP, Interior Steps	294	SF	$24 24	$7,127	
03 30 40	CIP, Slab on Grade, 4 Inch (First Floor)	11,324	SF	$7.32	$82,892	
03 30 40	CIP, Elevated Slab, 4 Inch (Sum of 2nd Floor and Up)	11,080	SF	$4.23	$46,868	
03 31 00	Concrete Testing	1	LS	$500.00	$500	
04 20 00	Mortar & Masonry Access (Gross Area, Total)	22,404	SF	$1.72	$38,535	
04 20 10	Grout Column Bases (Column Spread Footers)	38	EA	$45.00	$1,710	
04 20 20	Concrete Masonry Units (LF Found Wall x Typ Found Ht x 2)	3,640	SF	$14.51	$52,816	
04 20 20	Concrete Masonry Units (LF Ext Mas Wall x Typ Fl to Fl Ht)	10,920	SF	$14 51	$158,449	
04 20 20	Concrete Mason to Deck (LF Int Mas Deck x Typ Fl to Fl Ht)	11,970	SF	$14.51	$173,685	
04 20 20	Cut Masonry Control Joints (Perimeter/25')*Eave Ht	580	LF	$8.45	$4,898	
04 20 30	Brick Units (LF Footprint Perimeter x Foundation Ht)	2,070	SF	$15.49	$32,064	
04 20 30	Brick Units (LF Ext Wall x Typ Fl to Fl Ht)	10,920	SF	$15.49	$169,151	
04 20 30	Brick Units (LF Footprint Perimeter x Typ Parapet Ht)	1,242	SF	$15.49	$19,239	
04 20 40	Architectural Masonry	2,070	SF	$3 40	$7,038	
04 50 00	Masonry Cleaning (LF Footprint Perimeter x Foundation Ht)	2,070	SF	$0.40	$828	
04 50 00	Masonry Cleaning (LF Ext Wall x Typ Fl to Fl)	10,920	SF	$0 40	$4,368	
04 50 00	Masonry Cleaning (LF Footprint Perimeter x Parapet Height)	1,242	SF	$0.40	$497	
05 00 00	Miscellaneous Metal (Gross Area, Total)	22,404	SF	$0 48	$10,754	
05 00 00	Hot Dipped Galvanized Steel Lintels	42	LF	$25 00	$1,050	
05 10 00	Anchor Bolts, per Column (4 x Column Spread Footer)	152	EA	$20 00	$3,040	
05 10 00	Anchor Bolts, per 4' of Lug Footer (Lug Footer / 4)+10%	14	EA	$20 00	$275	

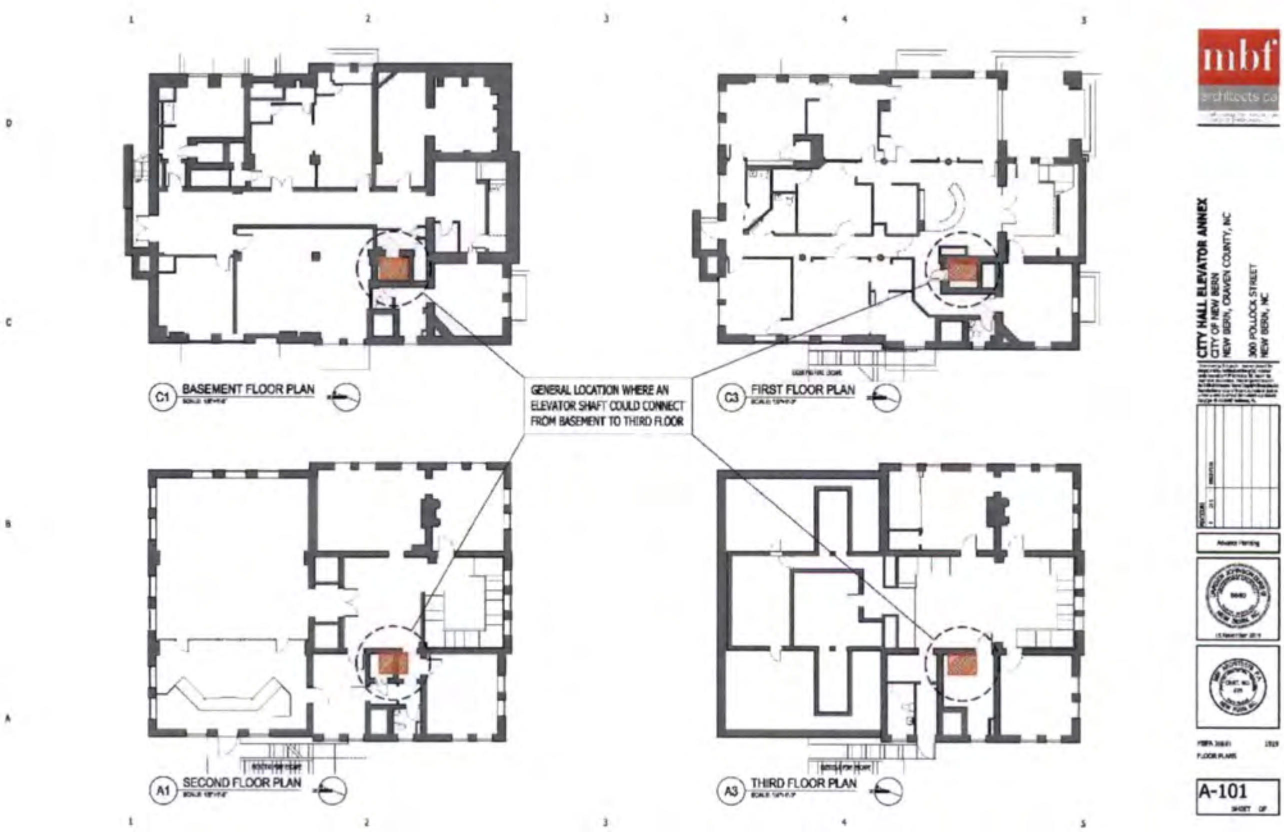
05 10 10	Structural Steel (First Floor)	11,324	SF	$17.15	$194,207
05 10 10	Structural Steel, Multiple Stories (Sum of 2nd Floor and Up)	11,080	SF	$6.50	$72,020
05 10 20	Open Web Steel Joists (Gross Roof Area)	11,464	SF	$5.25	$60,186
05 10 30	Steel Decking (Gross Roof Area)	11,464	SF	$3.50	$40,124
05 10 30	Steel Decking (Second Floor and Up)	11,080	SF	$3.50	$38,780
05 10 40	Steel Testing	1	LS	$500.00	$500
05 40 10	Non Structural CF Metal Framing (LF Int Stud * Typ Part Height)	2,620	SF	$3.50	$9,170
05 40 10	Non Structural CF Metal Framing, Soffits and Bulkheads	1,299	SF	$3.50	$4,547
05 40 10	Non Structural CF Mtl Framing (LF Footprint Perimeter x Parapet Ht)	1,242	SF	$3.50	$4,347
05 40 30	CF Metal Framing, LG Metal Truss Engineering	1	LS	$2,000.00	$2,000
05 40 30	CF Metal Framing, LG Metal Trusses, Third Floor Tower	1,160	SF	$14.28	$16,565
05 40 30	CF Metal Framing, LG Metal Truss Equipment	1	LS	$2,800.00	$2,800
05 50 00	Miscellaneous Metal Fabrications (Gross Area, Total)	22,404	LS	$0.08	$1,792
05 50 00	Metal Fabrications, Hand Rails	204	LF	$95.00	$19,380
05 50 00	Metal Fabrications, Rail Balustrades	182	LF	$190.00	$34,580
05 50 00	Metal Fabrications, Pipe Bollards, 6"	2	EA	$405.50	$811
05 50 00	Metal Fabrications, Stair Flights	11	EA	$13,265.00	$145,915
05 73 00	Structural Glass Balustrade, 3' Tall	154	LF	$275.00	$42,350
06 10 20	Eave Blocking (Roof Overhang)	148	LF	$40.57	$6,004
06 10 20	Parapet Blocking (Coping)	350	LF	$16.36	$5,726
06 10 20	Wood Roof Nailers (Gross Roof Area)	11,464	SF	$0.80	$9,171
06 10 20	Wood Roof Curbs (Dbl 2x12, 3 LF per Side)	4	EA	$80.00	$320
06 10 20	Plywood, CF Mtl (LF Footprint Perim x Parapet Ht)	1,242	EA	$7.00	$8,694
06 20 10	Arch Trimwork, Wood Base (LF Ext Wall + (LF Int Wall * 2))	2,848	LF	$3.50	$9,968
06 20 10	Arch Trimwork, Crown Mould (LF Ext Wall + (LF Int Wall * 2))	2,848	LF	$5.50	$15,664
06 20 10	Arch Trimwork, Sills and Casing (Gross Window Area)	1,987	SF	$12.20	$24,241
06 20 10	Arch Trimwork, Door Frames and Casing (Doors)	64	EA	$275.00	$17,600
06 20 10	Arch Trimwork, Safety Rails	2	EA	$50.00	$100
06 20 20	Millwork, Base Cabinet, Wall Cabinet, Wall Shelves	66	LF	$753.65	$49,741
07 11 00	Through Wall Flashing (LF Exterior Wall x 2)	1,456	LF	$4.17	$6,072
07 15 00	Insulation, Rigid (LF Ext Wall x Typ Fl to Fl Ht)	10,920	SF	$6.25	$68,250
07 16 00	Spray Foam Insul, Wall/Roof Juncture, 2' Width (Footprint Perim x 2)	828	SF	$9.03	$7,477
07 17 00	Insulation, Acoustical (LF Int Part Wall x Typ Part Ht)	2,620	SF	$2.81	$7,362
07 22 00	Insulation, Rigid, Low Slope + Metal	9,920	SF	$11.85	$117,552
07 22 00	Insulation Fasteners & Plates, Low Slope + Metal	9,920	SF	$0.25	$2,480
07 25 00	Air & Moisture Barrier Underlay (LF Ext Wall x Typ Fl to Fl Ht)	10,920	SF	$1.64	$17,909
07 25 00	Air & Moisture Barrier Underlayment, Low Slope + Metal	9,920	SF	$1.64	$16,269
07 26 00	Roof Accessories, Vent Stacks	3	EA	$25.00	$75
07 26 00	Roof Accessories, Drains & Overflows	10	EA	$539.00	$5,390
07 26 10	Roof Accessories, Roof Hatch, 2.5' x 3'	2	EA	$1,055.00	$2,110
07 26 20	Roof Accessories, Harnes Anchor Post	1	EA	$966.67	$967
07 26 20	Roof Accessories, Harness, Lanyard & Lifeline Set	2	EA	$2,000.00	$4,000
07 51 00	Low Slope Roof Warranty	8,760	SF	$0.24	$2,102
07 51 40	Modified Cap Sheet	8,760	SF	$7.35	$64,386
07 61 00	Sheet Metal Roofing	1,160	SF	$10.17	$11,797
07 61 00	Sheet Metal Roofing, Warranty	1,160	SF	$0.39	$452
07 62 10	Flash & Sht Mtl, Rubber Membrane Underlay (Parapet Coping)	350	LF	$7.78	$2,723
07 62 10	Flash & Sht Mtl, 14" Coping, 0.050 Gauge (Parapet Coping)	350	LF	$95.64	$33,474
07 62 20	Flash & Sht Mtl, Gutter and Downspouts (Roof Overhang & Soffit)	148	LF	$10.42	$1,542
07 62 40	Flash & Sht Mtl, Counterflashing	138	LF	$76.43	$10,547
07 62 40	Flash & Sht Mtl, Internal Gutter, 22 Gauge, Stainless Steel	250	SF	$15.12	$3,780
07 92 00	Caulking & Sealants (Gross Area, Total)	22,404	SF	$0.65	$14,563
07 92 10	Caulking & Sealants, CJ/EJ (Cut Masonry Control Joints)	580	LF	$5.19	$3,008
07 92 10	Caulk & Seal, Store & Curtain Wall (Alum Entrance+Wind+CW)	3,597	SF	$0.91	$3,273
08 11 00	Hollow Metal Frames (Doors)	60	EA	$326.87	$19,612
08 11 00	Hollow Metal Doors	4	EA	$225.00	$900
08 14 10	Flush Wood Doors (Doors-(HM+Fiber+Alum Doors)	56	EA	$226.28	$12,672
08 41 00	Aluminum Entrance Doors	4	EA	$1,764.50	$7,058
08 41 10	Aluminum Storefront Entrance	420	SF	$95.15	$39,963
08 41 20	Aluminum Windows (Windows)	1,987	SF	$51.57	$102,470
08 41 30	Aluminum Curtain Wall System	1,190	SF	$50.31	$59,869
08 41 50	Translucent Fiberglass Roof Framing & Panels, Gallery	1,544	SF	$42.32	$65,342
08 41 50	Translucent Fiberglass Panel Adhesive & Framing Fasteners	1,544	SF	$0.62	$957
08 41 50	Translucent Fiberglass EPDM Isolation Pads	1,544	SF	$1.43	$2,208

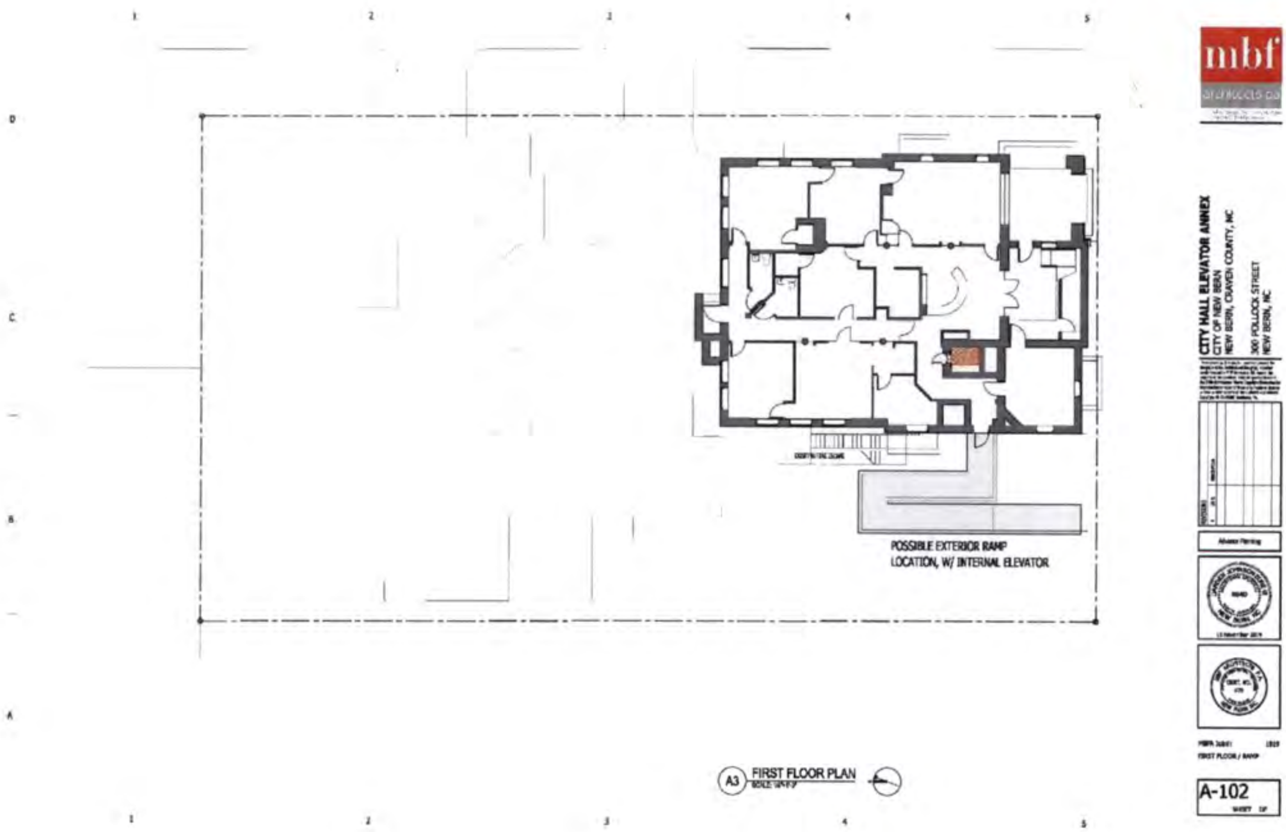
08 41 50	Translucent Fiberglass Teflon Isolation Pads	1,544	SF	$9.11	$14,066
08 41 50	Translucent Fiberglass Roof Eave Structural Steel	237	LF	$97.32	$23,065
08 41 50	Translucent Fiberglass Roof Aluminum Break Metal	353	LF	$18.46	$6,516
08 41 60	Auto Sliding Entrance System	2	EA	$4,500.00	$9,000
08 71 00	Finish Hardware (Doors)	64	EA	$383.00	$24,512
08 71 10	Aluminum Entrance Hardware	4	EA	$2,050.00	$8,200
08 71 40	Key Box	1	EA	$286 00	$286
08 80 10	Glass & Glazing (Doors)	64	EA	$56 33	$3,605
08 80 10	Entrance Glass & Glazing (Aluminum Entrances)	420	SF	$23.25	$9,765
08 80 10	Insulated Glass & Glazing (Aluminum Windows)	1,987	SF	$23.25	$46,198
08 80 10	Insulated Glass & Glazing (Aluminum Curtain Wall)	1,190	SF	$23.25	$27,668
09 02 00	Pressure Washing, Historic Facades in Gallery	4,725	SF	$0.21	$992
09 25 00	Veneer Plaster System	100	SF	$4 25	$425
09 26 00	Acrylic Coating	100	SF	$6.33	$633
09 29 10	Gypsum Bd, CF Int Wall Furring (Section 05 40 10 x One Side)	2,620	SF	$3.42	$8,960
09 29 10	Gypsum Bd, CF Int Wall (Section 05 40 10 x Two Sides)	5,240	SF	$3 42	$17,921
09 29 10	Gypsum Bd, CF Soffits and Bulkheads (Section 05 40 10)	1,299	SF	$3.42	$4,443
09 30 20	Ceramic Tile Flooring	1,690	SF	$15.62	$26,398
09 30 20	Ceramic Tile Wainscoat	4,622	SF	$15 62	$72,196
09 51 00	Acoustical Tile Ceilings (Gross Floor Area)	22,404	SF	$2.62	$58,698
09 61 00	Finsih Flooring Allowance (Gross Area, Total)	22,404	SF	$7 50	$168,030
09 66 00	Terrazzo Floring	1,544	SF	$34.60	$53,422
08 90 00	Stationary Louvers	40	SF	$69.94	$2,798
09 91 00	Int Paint ((LF Ext Wall + (2 x LF Int Wall)) * Int Part Wall Ht)	28,480	SF	$1.55	$44,144
09 91 00	Interior Painting, CF Soffits & Bulkheads (Section 05 40 10)	1,299	SF	$1.55	$2,013
09 91 00	Interior Painting, Metal Deck Ceiling (Gross Roof Area)	11,464	SF	$1.80	$20,635
09 91 00	Exterior Painting, Trim, Doors (Hollow Metal Doors)	4	EA	$50 00	$200
10 14 00	Signage, Interior (Doors)	64	EA	$142 58	$9,125
10 15 00	Cast Bronze Plaque	1	EA	$2,000.00	$2,000
10 21 00	Toilet Partitions, per Stall	25	ST	$1,170.00	$29,250
10 28 00	Toilet & Bath Accessories	61	FX	$204.48	$12,473
10 44 00	Fire Extinguisher Cabinets	6	EA	$542.50	$3,255
10 75 00	Flag Staff, 35' Height	3	EA	$3,720.00	$11,160
11 31 00	Residential Kitchen Appliances, Side by Side Refrigerator	1	EA	$1,200.00	$1,200
11 31 00	Residential Appliances, High End Microwave	1	EA	$1,655 00	$1,655
11 52 00	Motorized, Concealed Projection Screen, 10' Wide by 8' Tall	1	EA	$3,180 00	$3,180
11 53 00	Television Brackets, Ceiling or Wall Mount	3	EA	$600 00	$1,800
12 21 00	Window Treatment, Blinds (Windows)	1,987	SF	$3 64	$7,233
12 37 00	Solid Surface Countertops	77	LF	$22 50	$1,733
14 24 00	Elevator, Engineering	1	LS	$3,787.00	$3,787
14 24 00	Elevator, Hydraulic per Floor	3	EA	$30,589.00	$91,767
14 24 00	Elevator, Traction per Floor	2	EA	$20,000 00	$40,000
26 10 10	Commercial Standby Generator w/ Auto Trans Switch, 80 KW	0	EA	$51,100.00	$0
27 20 00	1' Center Hung Cable Tray and Accessories	408	LF	$9.00	$3,672
27 20 00	Voice & Data Cabling, Jacks & Phone System (Gross Area)	22,404	SF	$1 89	$42,344
27 51 00	Rescue Communications System, per Station	5	EA	$900.00	$4,500
28 13 00	Access Control, Proxy Card Reader System	1	AL	$3,070 00	$3,070
28 13 00	Access Control, Proxy Card Door Hardware	12	EA	$1,000.00	$12,000
28 13 00	Access Control, Card Programming Equipment	1	AL	$2,500.00	$2,500
28 13 00	Access Control, Cards or Keyfobs	100	EA	$2.00	$200
28 13 00	Access Control, Computer Workstation, Drive, Monitor, Keyboard	1	EA	$1,500 00	$1,500
28 23 00	Video Surveilance, DVR Recorder, per Channel	4	EA	$975.00	$3,900
28 23 00	Video Surveilance, LCD Monitor	2	EA	$400.00	$800
28 23 00	Video Surveilance, per Color Camera	12	EA	$650.00	$7,800
28 23 00	Video Surveilance, Two Station Intercom and Paging	1	EA	$1,450.00	$1,450
31 22 00	Building Pad & Site Improvements Staking (Construction Limits)	0.49	AC	$740.38	$363
31 22 00	Site Prep, Stripping ((AC x 43560 SF x 0 5 FT Depth)/27 CF))	395	CY	$7.06	$2,791
31 22 00	Site Prep, Compact Subgrade (First Floor Area / 9 SF)	1,258	SY	$3.82	$4,806
31 22 00	Site Prep, Replacement Backfill to Original Grade (Stripping)	395	CY	$34 36	$13,581
31 22 00	Site Prep, Building Pad, (First Flr Area x 7 FT Depth)/27 CF	2,936	CY	$14.00	$41,102
31 22 00	Site Prep, Dress Grading (Acers*4840)-(First Fl Area/9)	1,113	SY	$2 70	$3,006
31 23 00	Excavating & Detail Grading (Footprint Perim + Found Wall)	778	LF	$5 40	$4,201
31 23 00	Excavating & Detail Grading (Column Spread Footers)	38	EA	$100.00	$3,800
31 23 00	Underslab Drainage Stone, No 67 NCDoT, 4 Inches (1st Flr)	11,324	SF	$0.50	$5,662

31 25 00	Soils Testing	1	LS	$500 00	$500
31 31 00	Termite Treatment (First Floor Area)	11,324	SF	$0 75	$8,493
32 12 00	Construction Staking (Construction Limits)	0.49	AC	$1,082.81	$531
32 12 20	Curb & Gutter, 30", Handwork	64	LF	$24.91	$1,594
32 12 20	Valley Gutter, 24"	24	LF	$20 00	$480
32 18 20	Drive Surfacing, 10 Inch ABC	207	SY	$16 44	$3,403
32 18 20	Rough Grade Road Bed (Sum of Drive Surfacing)	207	SY	$2.50	$518
32 18 20	Fine Grade ABC Stone (Rough Grade Road Bed)	207	SY	$0 75	$155
32 18 20	2" I-2 Asphalt w/ 3" Intermediate Course-Heavy Roadways	207	SY	$32.32	$6,690
32 18 20	1" I-2 Asphalt Existing Pavement Overlay	500	SY	$6.50	$3,250
32 12 20	Site Walks & Improvements	798	SF	$6.06	$4,836
32 12 20	Site Walks & Imp, Dumpster & Masonry Screen Wall	1	EA	$3,500.00	$3,500
32 12 20	Site Walks & Imp, Service Area w/ Masonry Screen Wall	1	EA	$16,000 00	$16,000
32 12 30	Site Concrete Testing	1	LS	$500.00	$500
32 15 00	Masonry Pavers	1,218	SF	$9.20	$11,206
32 90 20	Plants, 2" Caliper Tree	0	EA	$636.86	$0
32 90 20	Shrubs, 2 Gallon, 4' OC x 600 LF	0	EA	$40.00	$0
33 05 00	Water Test and Chlorinate	1	LS	$1,500.00	$1,500
33 05 00	Sewer Test	1	LS	$600.00	$600
33 10 00	Sewer 4" Cleanout w/ 2' x 2' x 6" Conc Pad, 100 FT Intervals	2	EA	$250.00	$500
33 10 00	Elevator Oil Interceptor, 1000 Gallons	2	EA	$4,850 00	$9,700
33 30 00	Concrete Water Meter Vault	1	EA	$10,093.00	$10,093
33 30 00	Water Main Tap and Saddle, 8"	1	EA	$3,850.00	$3,850
33 30 00	Backflow Preventer, 2"	1	EA	$3,000 00	$3,000
33 30 00	Water Utilities, 2" PVC	50	LF	$28.60	$1,430
33 30 00	Water Utilities, 2" Fittings	4	EA	$150.00	$600
33 30 00	Water Utilities, 2" Valve	2	EA	$225 00	$450
33 30 00	Sewer Utilities, 6" PVC Including Fittings	50	LF	$12.00	$600
			SF	$196 93	$4,411,999
22 00 00	Plumbing	22,404	SF	$11.40	$255,406
23 00 00	Mechanical	22,404	SF	$21.03	$471,156
26 00 00	Electrical	22,404	SF	$21.30	$477,205
28 31 00	Fire Alarm System	22,404	SF	$4 32	$96,785
			SF	$58 05	$1,300,552

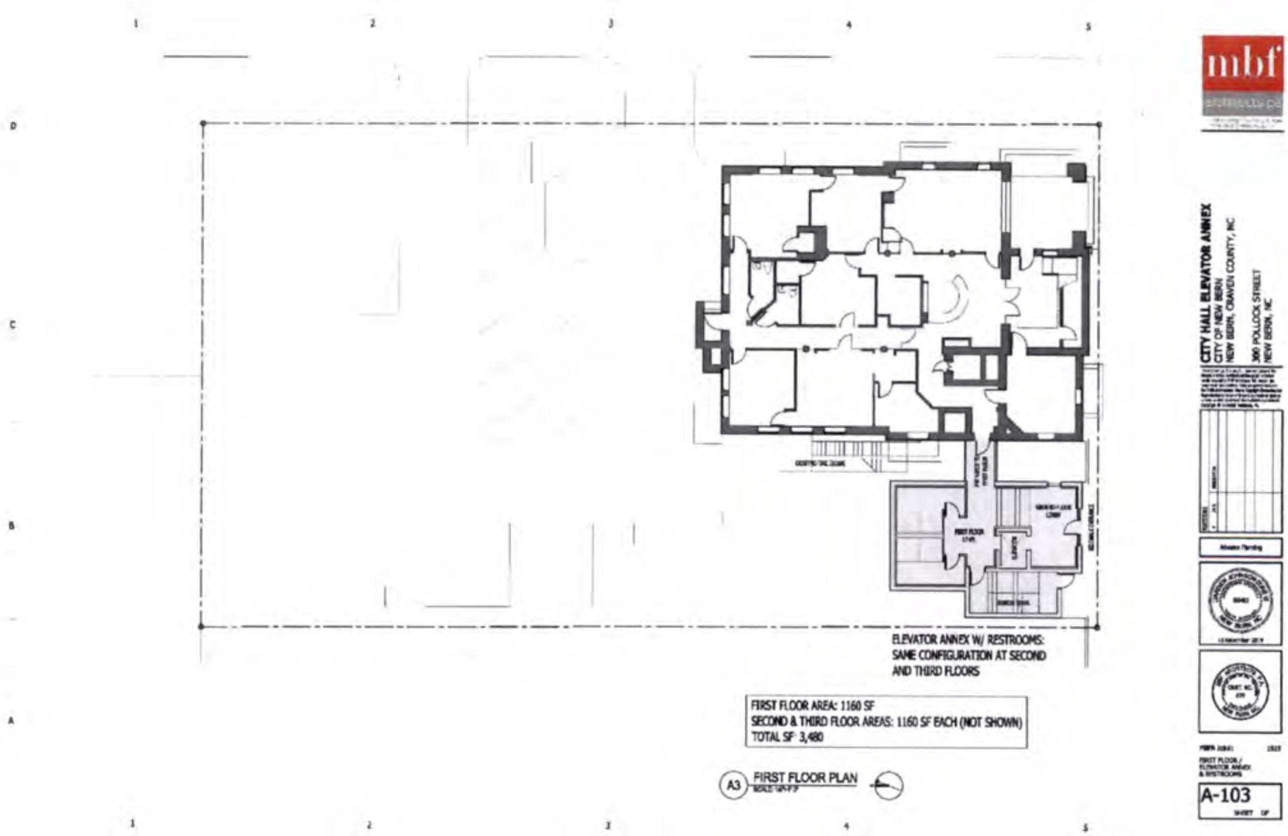
Estimated Cost		$5,712,551	
Probable Deviation Amount	5%	$285,628	
Anticipated Base Bid Range-Low		$5,426,923	to
Anticipated Base Bid Range-High		$5,998,178	


CRAVEN STREET
POLLOCK STREET
60' R.O.W
SITE PLAN
CITY HALL ELEVATOR ANNEX
CITY OF NEW BERN
NEW BERN, CRAVEN COUNTY, NC
300 POLLOCK STREET
NEW BERN, NC
A-100

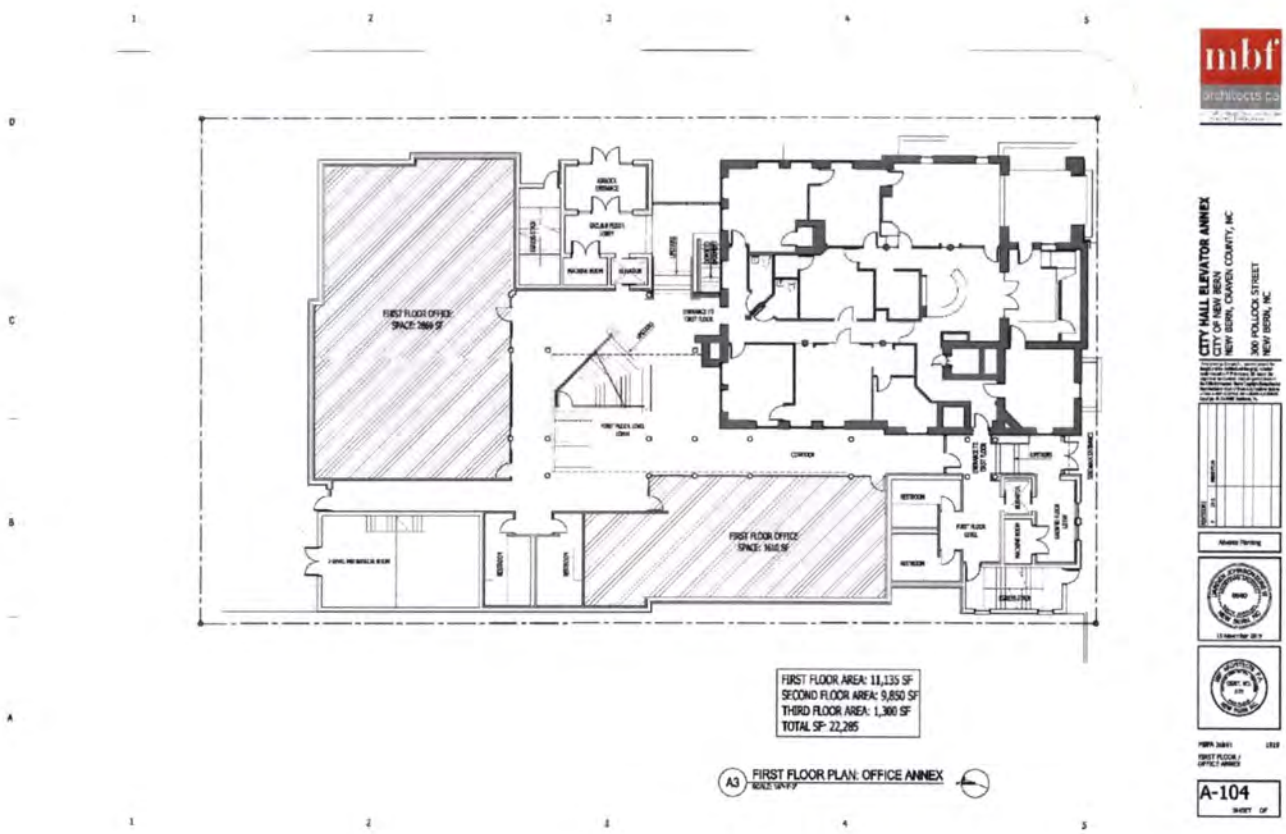

BASEMENT FLOOR PLAN
FIRST FLOOR PLAN
GENERAL LOCATION WHERE AN ELEVATOR SHAFT COULD CONNECT FROM BASEMENT TO THIRD FLOOR
SECOND FLOOR PLAN
THIRD FLOOR PLAN
CITY HALL ELEVATOR ANNEX
CITY OF NEW BERN
NEW BERN, CRAVEN COUNTY, NC
300 POLLOCK STREET
NEW BERN, NC
A-101

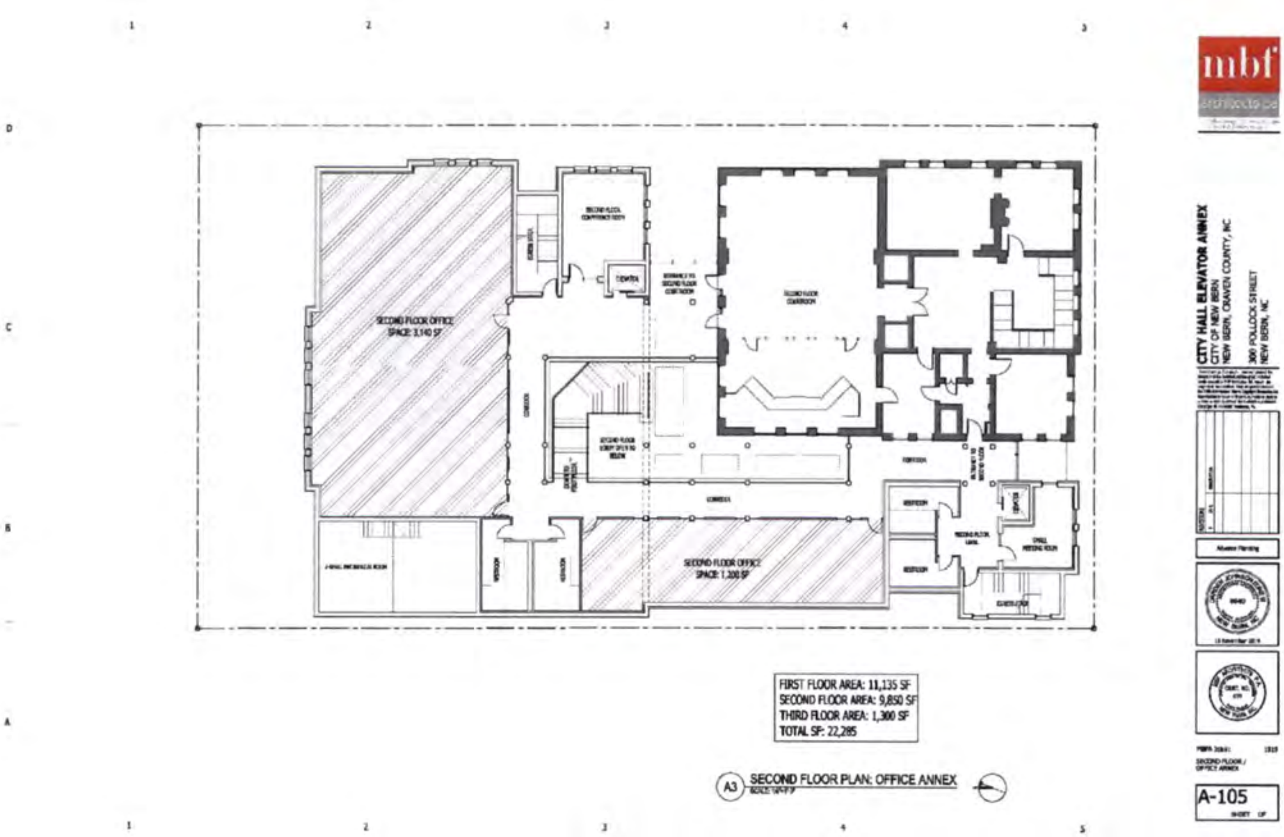


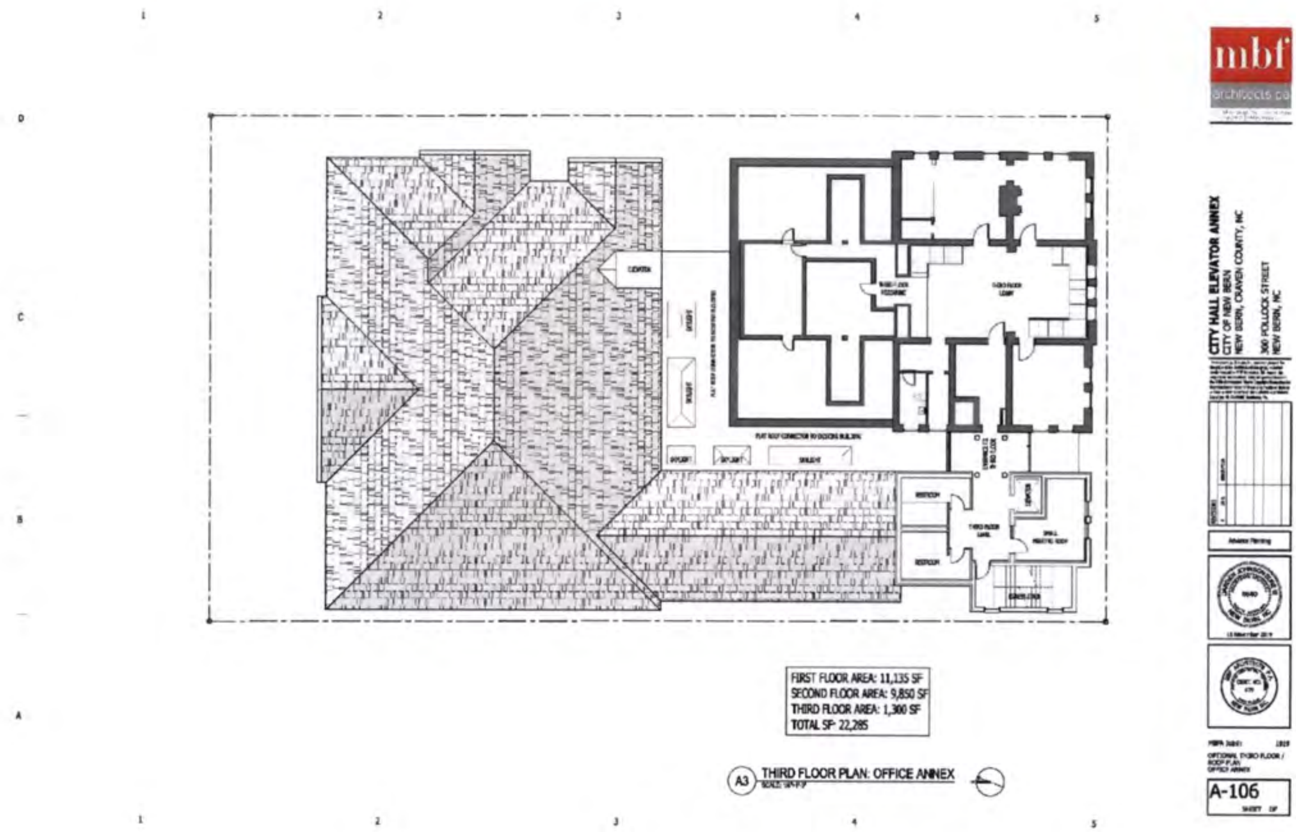
POSSIBLE EXTERIOR RAMP LOCATION, W/ INTERNAL ELEVATOR
A3
FIRST FLOOR PLAN
mbf
architects pa
CITY HALL ELEVATOR ANNEX
CITY OF NEW BERN
NEW BERN, CRAVEN COUNTY, NC
300 POLLOCK STREET
NEW BERN, NC
A-102

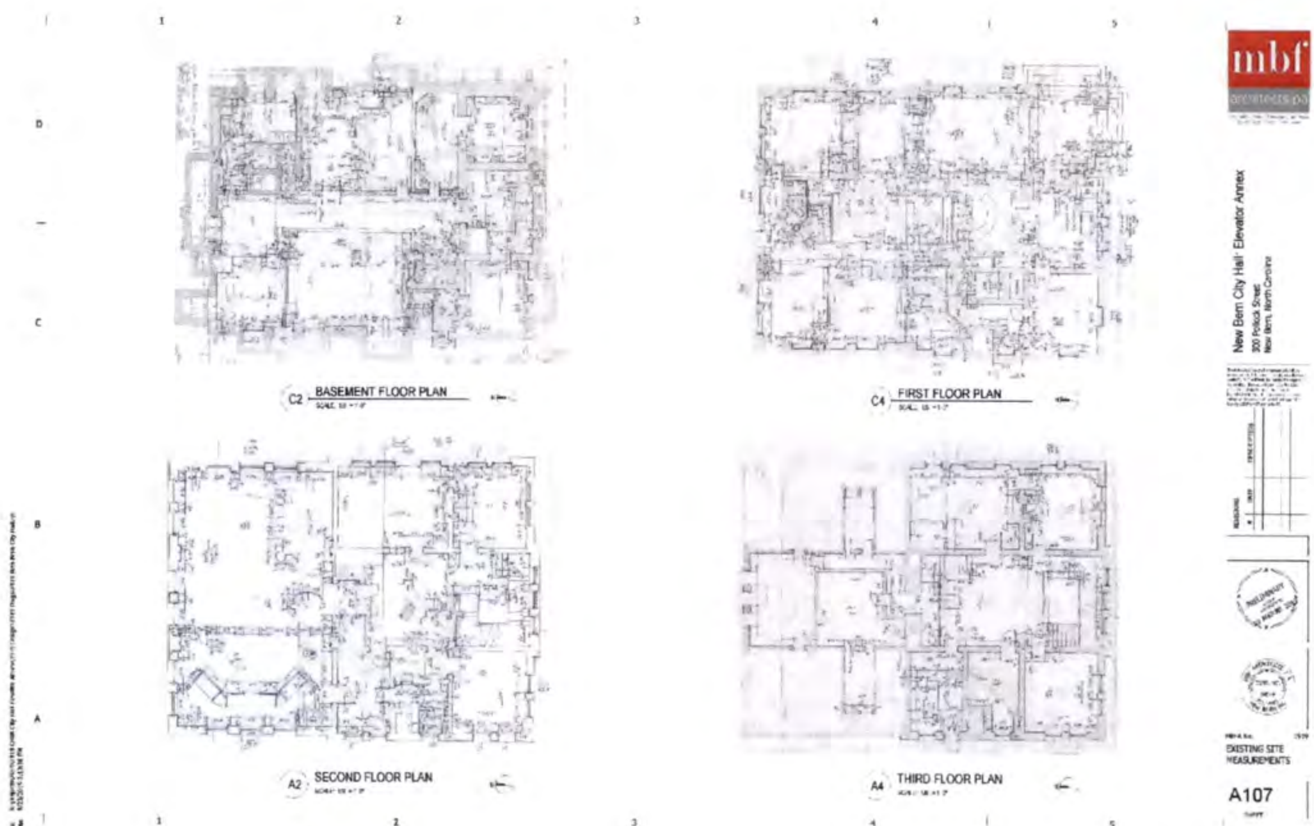


ELEVATOR ANNEX W/ RESTROOMS: SAME CONFIGURATION AT SECOND AND THIRD FLOORS
FIRST FLOOR AREA: 1160 SF
SECOND & THIRD FLOOR AREAS: 1160 SF EACH (NOT SHOWN)
TOTAL SF 3,480
A3
FIRST FLOOR PLAN
mbf
architects pa
CITY HALL ELEVATOR ANNEX
CITY OF NEW BERN
NEW BERN, CRAVEN COUNTY, NC
300 POLLOCK STREET
NEW BERN, NC
A-103


mbf
architects pa
CITY HALL ELEVATOR ANNEX
FIRST FLOOR OFFICE SPACE
FIRST FLOOR OFFICE SPACE
FIRST FLOOR AREA: 11,135 SF
SECOND FLOOR AREA: 9,850 SF
THIRD FLOOR AREA: 1,300 SF
TOTAL SF: 22,285
A3 FIRST FLOOR PLAN: OFFICE ANNEX
A-104


mbf
architects pa
CITY HALL ELEVATOR ANNEX
SECOND FLOOR OFFICE SPACE
SECOND FLOOR OFFICE SPACE
FIRST FLOOR AREA: 11,135 SF
SECOND FLOOR AREA: 9,850 SF
THIRD FLOOR AREA: 1,300 SF
TOTAL SF: 22,285
A3 SECOND FLOOR PLAN: OFFICE ANNEX
A-105


mbf
architects pa
CITY HALL ELEVATOR ANNEX
CITY OF NEW BERN
NEW BERN, CRAVEN COUNTY, NC
300 POLLOCK STREET
NEW BERN, NC
FIRST FLOOR AREA: 11,135 SF
SECOND FLOOR AREA: 9,850 SF
THIRD FLOOR AREA: 1,300 SF
TOTAL SF: 22,285
A3 THIRD FLOOR PLAN: OFFICE ANNEX
A-106


mbf
architects pa
New Bern City Hall: Elevator Annex
300 Pollock Street
New Bern, North Carolina
C2 BASEMENT FLOOR PLAN
C4 FIRST FLOOR PLAN
A2 SECOND FLOOR PLAN
A4 THIRD FLOOR PLAN
EXISTING SITE MEASUREMENTS
A107

CITY OF NEW BERN

CITY HALL UPGRADES/EXPANSION FUNDING OPTIONS

Installment Financing - 3%, 15 years	Estimated Project Cost	Total Annual Payments	Total Interest Cost	Total Payback
Option A:				
To add an interior elevator to the existing footprint of City Hall.	$ 1,300,000	$ 107,736	$ 315,961	$ 1,615,961
Option B:				
To add an elevator to the exterior of the building to be located facing Pollock Street.	$ 2,160,000	$ 179,004	$ 524,981	$ 2,684,981
Option C:				
To add an elevator as part of a larger 14,300 square foot annexation building that would include relocating several City departments to the annexation building.	$ 6,575,000	$ 544,860	$ 1,598,034	$ 8,176,034

Installment Financing - 3%, 20 years	Estimated Project Cost	Total Annual Payments	Total Interest Cost	Total Payback
Option A:				
To add an interior elevator to the existing footprint of City Hall.	$ 1,300,000	$ 86,520	$ 430,345	$ 1,730,345
Option B:				
To add an elevator to the exterior of the building to be located facing Pollock Street.	$ 2,160,000	$ 143,748	$ 715,034	$ 2,875,034
Option C:				
To add an elevator as part of a larger 14,300 square foot annexation building that would include relocating several City departments to the annexation building.	$ 6,575,000	$ 437,580	$ 2,176,550	$ 8,751,550

AGENDA ITEM COVER SHEET

NEW BERN
CITY OF NEW BERN

Agenda Item Title:
Discussion of Racetrack Road Project

Date of Meeting: 10/6/20	**Ward # if applicable:** 5
Department: Public Works	**Person Submitting Item:** Matt Montanye
Call for Public Hearing: ☐Yes☒No	**Date of Public Hearing:**

Explanation of Item:	Kyle Compton, PE and Dewayne Alligood, PE with the Engineering Firm of Vaughn Melton will be in attendance to provide the Board with a update on the feasibility and cost associated to resurface and widening Racetrack Road to include bike lanes and/or sidewalks.
Actions Needed by Board:	Direction for moving forward.
Backup Attached:	Presentation from Vaughn Melton

Is item time sensitive? ☐**Yes** ☒**No**
Will there be advocates/opponents at the meeting? ☐**Yes** ☐ **No** N/A

Cost of Agenda Item: TBD
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? ☐**Yes** ☒ **No**

Additional Notes:

NEW BERN
NORTH CAROLINA

Public Works Department
P.O. Box 1129, 1004 S. Glenburnie Road
New Bern, N.C. 28563-1129
Phone: (252) 639-7501
Fax: (252) 636-1848

September 25, 2020

Memo to: Mayor and Board of Aldermen

From: Matt Montanye, Director of Public Works

Re: Discussion of the Racetrack Road Project

Background Information:
In June of this year, at the direction of the Board of Aldermen the City of New Bern Public Works Department contracted with the engineering firm of Vaugh Melton to perform a feasibility study for widening Racetrack Road and to investigate the possibilities of adding bike lanes and or sidewalks. As part of this study Vaughn Melton would participate in a kick-off meeting with members of the Public Works Department as well as Mayor Outlaw and Alderman Kinsey and would investigate feasibility and cost for the following typical sections:

1. Provide a uniform 22-foot-wide roadway for the length of the project to include (2) 11-foot travel lanes.
   a. With no sidewalk.
   b. With sidewalk on one side.
   c. With sidewalk on both sides.

2. Provide a 32-foot-wide roadway for the length of the project to include (2) 11-foot travel lanes and a 5-foot bike lane on each side.
   a. With no sidewalk.
   b. With sidewalk on one side.
   c. With sidewalk on both sides.

On June 12, 2020, a kick-off meeting was held with the team from Vaughn Melton, the Director of Public Works, Public Works Staff Engineer, Mayor Outlaw and Alderman Kinsey. During this meeting it was discussed whether or not if the entire street was in need of being resurfaced as well as if it was necessary to install sidewalks on both side of Racetrack Road or even up to Neuse Blvd. As a result of this meeting, the scope of the feasibility study was revised to include the feasibility and cost for the following typical sections:

1. Provide a uniform 22-foot-wide roadway for the length of the project to include (2) 11-foot travel lanes.
   a. With no sidewalk and 2-foot-wide shoulders on each side.
   b. With no sidewalk and 3-foot-wide shoulders on each side.
   c. With sidewalk on one side from Elizabeth Ave. to Latitude Church.
   d. With sidewalk on both sides from Elizabeth Ave. to Latitude Church.

2. Provide a 27-foot-wide roadway for the length of the project to include (2) 11-foot travel lanes and a 5-foot paved shoulder on one side.
   a. With no sidewalk.
   b. With sidewalk on one side from Elizabeth Ave. to Latitude Church.

Over the past eight-weeks, Vaugh Melton conducted their feasibility study and will be on hand to review and discuss their findings with the Board of Aldermen.

FEASIBILITY STUDY

Improvements to Racetrack Road

From Elizabeth Avenue to Neuse Boulevard

Prepared For:

NEW BERN

CITY OF NEW BERN

Prepared By:

V&M

Vaughn & Melton

Vaughn & Melton Consulting Engineers
3115 Trent Road
New Bern, NC 28562
(252) 631-5115

September 30, 2020

Executive Summary

General Description

This feasibility study provides a screening-level review of potential improvements to Racetrack Road between Elizabeth Avenue and Neuse Boulevard. The study evaluates the costs of several construction options which are intended to more safely accommodate pedestrians, bicyclists and motorists along the corridor. The corridor serves multiple housing and apartment developments, Latitude Church, Two Rivers Church, HJ Mac Donald Middle School, Argos concrete plant, and several other commercial entities. A railroad crossing (North Carolina Railroad) is also on the corridor.

Options Evaluated

Seven cross sections with varying shoulder widths and sidewalk arrangements were evaluated for the roadway from Elizabeth Avenue to the railroad tracks. They are:

- 1 - 22-foot wide roadway
- 1 (A) - 22-foot wide roadway with 2-foot wide paved shoulder on both sides
- 1 (B) - 22-foot wide roadway with 3-foot wide paved shoulder on both sides
- 1 (C) - 22-foot wide roadway with 3-foot wide paved shoulder on both sides and sidewalk on one side from Elizabeth Avenue to Latitude Church
- 1 (D) - 22-foot wide roadway with 3-foot wide paved shoulder and sidewalk on both sides from Elizabeth Avenue to Latitude Church
- 2 (A) - 22-foot wide roadway with 5-foot paved shoulder on one side
- 2 (B) - 22-foot wide roadway with 5-foot paved shoulder on one side and sidewalk on one side from Elizabeth Avenue to Latitude Church.

Two alternates were also evaluated. They are:

- Alternate 1 – Replacement of the 36-inch crossline pipe under Racetrack Road. This pipe is located just south of Latitude Church adjacent to the City's sewer pump station. Preliminary hydraulic analysis indicates the pipe size is inadequate.
- Alternate 2 - Patching, resurfacing and pavement markings for the existing pavement width from the railroad tracks to Neuse Boulevard.

Design Criteria

The design criteria assumed for this Study are:

- Functional Classification – Local Road
- Design Speed - 35 MPH
- Average Annual Daily Traffic – Unknown
- Percentage of Trucks - Unknown
- Must accommodate emergency vehicles, school buses, and construction vehicles
- Bicycle and pedestrian accommodations as noted for each alternative.

- The only anticipated improvement to the intersection of Neuse Blvd. is modifications to the island.
- It will be assumed that curb and gutter will not be utilized to separate sidewalks.

Cost Estimates

A summary of estimated costs for each option is detailed on page _______ of this package. These costs are broken down as follows:

Preconstruction Costs – V&M has provided an estimate for the cost to finalize design and provide a full set of construction plans and specifications. Estimated costs for additional geotechnical exploration and recommendations are also provided. The design estimate includes the preparation of documents needed for environmental permitting.

Construction Costs – V&M has provided construction quantities and estimated costs for the major construction items including construction surveying, clearing and grubbing, grading, drainage culverts, asphalt patching, pavements, curb & gutter, erosion control, traffic control, and pavement markings. V&M used NCDOT pay items for the estimates and applied a factor for unknown quantities and unknown major items. Contract administration and construction inspection costs are not included.

Right of Way and Utility Costs – V&M has provided an estimated square footage of right of way impacts that will be required for the various options. V&M has also provided the number of power poles that conflict with construction options. The need to relocate additional poles beyond those directly impacted has not been evaluated. V&M has quantified the right of way and utility impacts for each option. No cost has been estimated for these impacts.

All costs are based on current market prices and not adjusted for a future year cost.

Natural Environment

A detailed environmental study was not conducted for this feasibility study. A preliminary environmental site review was conducted in the project study area using geographic information system level databases and regional mapping. The Environmental Features Map is shown on page 5.

The review indicates the following features are present within the project study area, but none of the construction options are expected to affect them:

- NC Leaking Regulated Underground Storage Tanks
- EPA NEPA Assist Toxic Releases_TRI
- NC DEQ Hazardous Waste Sites
- NCDOT ATLAS NC Hydrography
- USFWS National Wetland Boundary
- North Carolina Division of Mitigation Services Property Easements
- NC Division of Coastal Management Coastal Wetland Inventory


NEW BERN
CITY OF NEW BERN
Racetrack Road Project
City of New Bern
Environmental Features Map
Craven County
Legend
Area of Interest
NC Leaking Regulated Underground Storage Tanks
EPA NEPA Assist Toxic Releases_TRI
NC DEQ Underground Storage Tank Incidents
NC DEQ Hazardous Waste Sites
NCDOT ATLAS NC Hydrography
USFWS National Wetland Inventory
North Carolina Division of Mitigation Services Property Easements
NC Division of Coastal Management Coastal Wetland Inventory
Vaughn & Melton

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OPTION

Category of Work	1	1 (A)	1 (B)	1 (C)	1 (D)	2 (A)	2 (B)
Preconstruction Phase							
Roadway Design	$ 25,000.00	$ 25,000.00	$ 25,000.00	$ 140,000.00	$ 140,000.00	$ 140,000.00	$ 140,000.00
Geotechnical				$ 14,000.00	$ 14,000.00	$ 14,000.00	$ 14,000.00
Construction Phase							
Base Bid - Roadway Construction	$ 300,000.00	$ 730,000.00	$ 785,000.00	$ 1,500,000.00	$ 1,730,000.00	$ 1,345,000.00	$ 1,565,000.00
Total Preconstruction Costs plus Base Bid Costs	$ 325,000.00	$ 755,000.00	$ 810,000.00	$ 1,654,000.00	$ 1,884,000.00	$ 1,499,000.00	$ 1,719,000.00
Alternate 1 - Add Crossline Pipe Replacement with 2-54" class IV concrete pipes with endwalls	$ 105,000.00	$ 105,000.00	$ 105,000.00	$ 105,000.00	$ 105,000.00	$ 105,000.00	$ 105,000.00
Alternate 2 - Add Resurfacing from Railroad Tracks to Neuse Blvd.	$ 110,000.00	$ 110,000.00	$ 110,000.00	$ 110,000.00	$ 110,000.00	$ 110,000.00	$ 110,000.00
Total Preconstruction Costs, Base Bid, plus alternates	$ 540,000.00	$ 970,000.00	$ 1,025,000.00	$ 1,869,000.00	$ 2,099,000.00	$ 1,714,000.00	$ 1,934,000.00
Utilities (Number of Power Poles in Conflct)	0	0	0	4	6	2	7
Right of Way (Square feet from existing right of way to new ditch backslope)	0	0	0	7,665	13,243	900	13,222

Option Descriptions

- 1 - 22-foot wide roadway resurfacing
- 1 (A) - 22-foot wide roadway with 2-foot wide paved shoulder on both sides
- 1 (B) - 22-foot wide roadway with 3-foot wide paved shoulder on both sides
- 1 (C) - 22-foot wide roadway with 3-foot wide paved shoulder on both sides and sidewalk on one side from Elizabeth Avenue to Latitude Church
- 1 (D) - 22-foot wide roadway with 3-foot wide paved shoulder on both sides and sidewalk on both sides from Elizabeth Avenue to Latitude Church
- 2 (A) - 22-foot wide roadway with 5-foot paved shoulder on one side
- 2 (B) - 22-foot wide roadway with 5-foot paved shoulder on one side and sidewalk on one side from Elizabeth Avenue to Latitude Church.

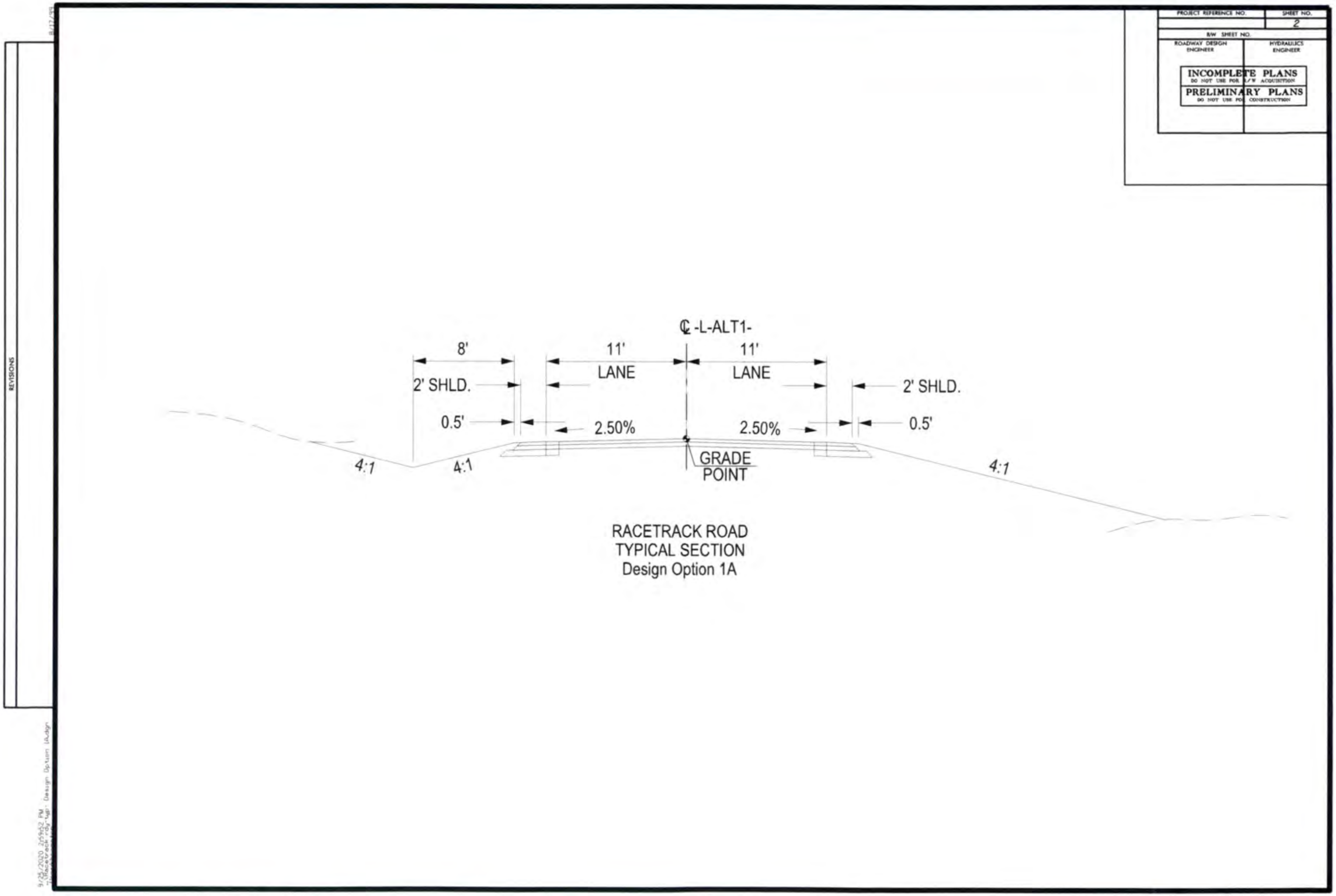
Option 1

22-foot wide roadway

City of New Bern
Racetrack Road
From Elizabeth Ave to Railroad (~4,785 feet)
RESURFACING, PAVEMENT MARKINGS

Item Number	SECTION		DESCRIPTION	QUANTITY	UNIT	PRICE	Amount
0000100000-N	800		MOBILIZATION	1	LS	$13,000 00	$13,000.00
1330000000-E	607		INCIDENTAL MILLING	1000	SY	$8.00	$8,000.00
1519000000-E	610		ASPHALT CONC SURFACE COURSE, TYPE S9 5B	1120	TON	$110.00	$123,200.00
1693000000-E	654		ASPHALT PLANT MIX, PAVEMENT REPAIR	370	TON	$220.00	$81,400.00
4457000000-N	SP		TEMPORARY TRAFFIC CONTROL	1	LS	$15,000 00	$15,000.00
4685000000-E	1205		THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	15130	LF	$1 20	$18,156.00

	$258,756 00
E&C (15%)	$38,813 40
Total	$297,569 40


SHEET NO.
2
INCOMPLETE PLANS
PRELIMINARY PLANS
REVISIONS
℄ -L-ALT1-
8'
11'
LANE
11'
LANE
2' SHLD.
2' SHLD.
0.5'
0.5'
2.50%
2.50%
4:1
4:1
4:1
GRADE POINT
RACETRACK ROAD
TYPICAL SECTION
Design Option 1A

Vaughn & Melton

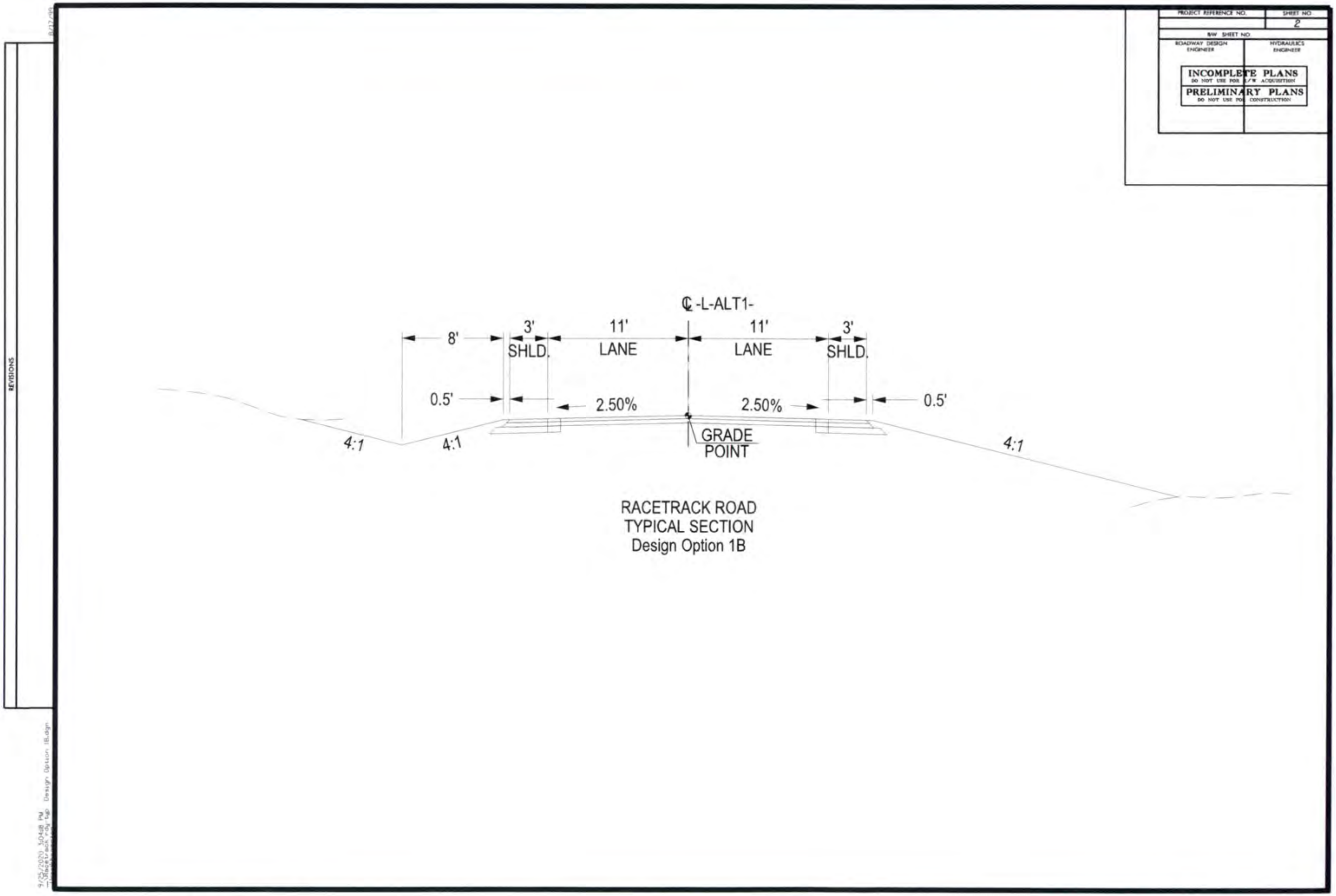
Option 1 (A)

22-foot wide roadway with 2-foot wide paved shoulder on both sides

City of New Bern
Racetrack Road
From Elizabeth Ave to Railroad
LEVELING, WIDENING, RESURFACING, PAVEMENT MARKINGS

Item Number	SECTION		DESCRIPTION	QUANTITY	UNIT	PRICE	Amount
0000100000-N	800		MOBILIZATION	1	LS	$29,000 00	$29,000.00
1220000000-E	545		INCIDENTAL STONE BASE	250	TON	$45.00	$11,250.00
1330000000-E	607		INCIDENTAL MILLING	1000	SY	$8 00	$8,000.00
1491000000-E	610		ASPHALT CONC BASE COURSE, TYPE B25 0C	580	TON	$120 00	$69,600 00
1519000000-E	610		ASPHALT CONC SURFACE COURSE, TYPE S9 5B	1750	TON	$110 00	$192,500 00
1693000000-E	654		ASPHALT PLANT MIX, PAVEMENT REPAIR	450	TON	$220 00	$99,000 00
2612000000-E	848		6" CONCRETE DRIVEWAY	780	SY	$125 00	$97,500 00
4457000000-N	SP		TEMPORARY TRAFFIC CONTROL	1	LS	$45,000 00	$45,000 00
4685000000-E	1205		THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	15130	LF	$1 20	$18,156 00
6000000000-E	1605		TEMPORARY SILT FENCE	1000	LF	$6 00	$6,000 00
6015000000-E	1615		TEMPORARY MULCHING	1	ACR	$1,000 00	$1,000 00
6018000000-E	1620		SEED FOR TEMPORARY SEEDING	200	LB	$5 00	$1,000 00
6021000000-E	1620		FERTILIZER FOR TEMPORARY SEEDING	2	TON	$800 00	$1,600 00
6084000000-E	1660		SEEDING & MULCHING	1 5	ACR	$2,000 00	$3,000 00

	$582,606 00
E&C (25%)	$145,651 50
Total	$728,257 50



RACETRACK ROAD
TYPICAL SECTION
Design Option 1B

Option 1 (B)

22-foot wide roadway with 3-foot wide paved shoulder on both sides

City of New Bern
Racetrack Road
From Elizabeth Ave to Railroad
LEVELING,WIDENING, RESURFACING, PAVEMENT MARKINGS

Item Number	SECTION		DESCRIPTION	QUANTITY	UNIT	PRICE	Amount
0000100000-N	800		MOBILIZATION	1	LS	$31,000.00	$31,000.00
1220000000-E	545		INCIDENTAL STONE BASE	250	TON	$45.00	$11,250 00
1330000000-E	607		INCIDENTAL MILLING	1000	SY	$8 00	$8,000 00
1491000000-E	610		ASPHALT CONC BASE COURSE, TYPE B25 0C	820	TON	$120 00	$98,400.00
1519000000-E	610		ASPHALT CONC SURFACE COURSE, TYPE S9 5B	1875	TON	$110 00	$206,250.00
1693000000-E	654		ASPHALT PLANT MIX, PAVEMENT REPAIR	450	TON	$220 00	$99,000 00
2612000000-E	848		6" CONCRETE DRIVEWAY	780	SY	$125 00	$97,500.00
4457000000-N	SP		TEMPORARY TRAFFIC CONTROL	1	LS	$45,000.00	$45,000.00
4685000000-E	1205		THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	15130	LF	$1 20	$18,156 00
6000000000-E	1605		TEMPORARY SILT FENCE	1000	LF	$6 00	$6,000 00
6015000000-E	1615		TEMPORARY MULCHING	1	ACR	$1,000 00	$1,000 00
6018000000-E	1620		SEED FOR TEMPORARY SEEDING	200	LB	$5 00	$1,000 00
6021000000-E	1620		FERTILIZER FOR TEMPORARY SEEDING	2	TON	$800.00	$1,600 00
6084000000-E	1660		SEEDING & MULCHING	1 5	ACR	$2,000 00	$3,000 00

	$627,156 00
E&C (25%)	$156,789.00
Total	$783,945 00

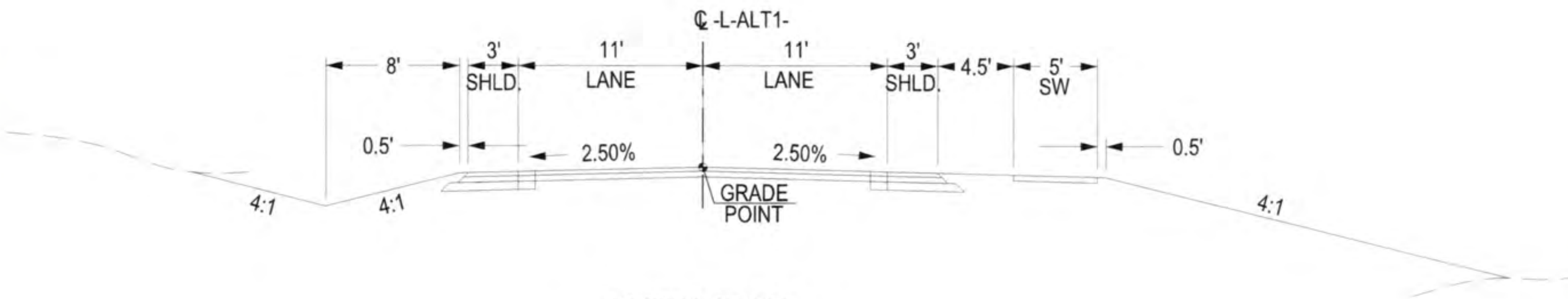
Vaughn & Melton

PROJECT REFERENCE NO.	SHEET NO.
	2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS



RACETRACK ROAD
TYPICAL SECTION
Design Option 1C

Option 1 (C)

22-foot wide roadway with sidewalk on one side

City of New Bern
Racetrack Road
From Elizabeth Ave to Neuse Blvd
GRADING, DRAINAGE, PAVING, PAVEMENT MARKINGS

Item Number	SECTION		DESCRIPTION	QUANTITY	UNIT	PRICE	Amount
0000100000-N	800		MOBILIZATION	1	LS	$60,000.00	$60,000 00
0000400000-N	801		CONSTRUCTION SURVEYING	1	LS	$60,000 00	$60,000.00
0001000000-E	200		CLEARING & GRUBBING	1	LS	$120,000.00	$120,000 00
0036000000-E	225		UNDERCUT EXCAVATION (contingency)	200	CY	$30 00	$6,000.00
0043000000-N	226		GRADING	1	LS	$90,000 00	$90,000.00
0194000000-E	265		SELECT GRANULAR MATERIAL, CLASS III (contingency)	200	CY	$20.00	$4,000 00
1220000000-E	545		INCIDENTAL STONE BASE	250	TON	$45 00	$11,250 00
1330000000-E	607		INCIDENTAL MILLING	1000	SY	$8 00	$8,000.00
1491000000-E	610		ASPHALT CONC BASE COURSE, TYPE B25 0C	820	TON	$120 00	$98,400 00
1519000000-E	610		ASPHALT CONC SURFACE COURSE, TYPE S9 5B	1875	TON	$110.00	$206,250 00
1693000000-E	654		ASPHALT PLANT MIX, PAVEMENT REPAIR	450	TON	$220 00	$99,000.00
2591000000-E	848		4" CONCRETE SIDEWALK	1890	SY	$60 00	$113,400.00
2549000000-E	846		2'-6" CONCRETE CURB & GUTTER	855	LF	$50 00	$42,750 00
2612000000-E	848		6" CONCRETE DRIVEWAY	780	SY	$125 00	$97,500.00
			WORK ZONE TRAFFIC CONTROL	1	LS	$80,000 00	$80,000 00
4685000000-E	1205		THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	15130	LF	$1.20	$18,156 00
6000000000-E	1605		TEMPORARY SILT FENCE	4000	LF	$6 00	$24,000.00
6006000000-E	1610		STONE FOR EROSION CONTROL, CLASS A	50	TON	$50.00	$2,500 00
6009000000-E	1610		STONE FOR EROSION CONTROL, CLASS B	50	TON	$50 00	$2,500 00
6012000000-E	1610		SEDIMENT CONTROL STONE	100	TON	$40.00	$4,000 00
6015000000-E	1615		TEMPORARY MULCHING	2	ACR	$1,000 00	$2,000 00
6018000000-E	1620		SEED FOR TEMPORARY SEEDING	200	LB	$5.00	$1,000.00
6021000000-E	1620		FERTILIZER FOR TEMPORARY SEEDING	2	TON	$800 00	$1,600 00
6036000000-E	1631		MATTING FOR EROSION CONTROL	10000	SY	$3.00	$30,000.00
6042000000-E	1632		1/4" HARDWARE CLOTH	360	LF	$8 00	$2,880 00
6071010000-E	SP		WATTLE	300	LF	$10.00	$3,000.00
6071030000-E	1640		COIR FIBER BAFFLE	100	LF	$10 00	$1,000 00
6084000000-E	1660		SEEDING & MULCHING	3	ACR	$2,000 00	$6,000.00

	$1,196,426 00
E&C (25%)	$299,106 50
Total	$1,495,532.50

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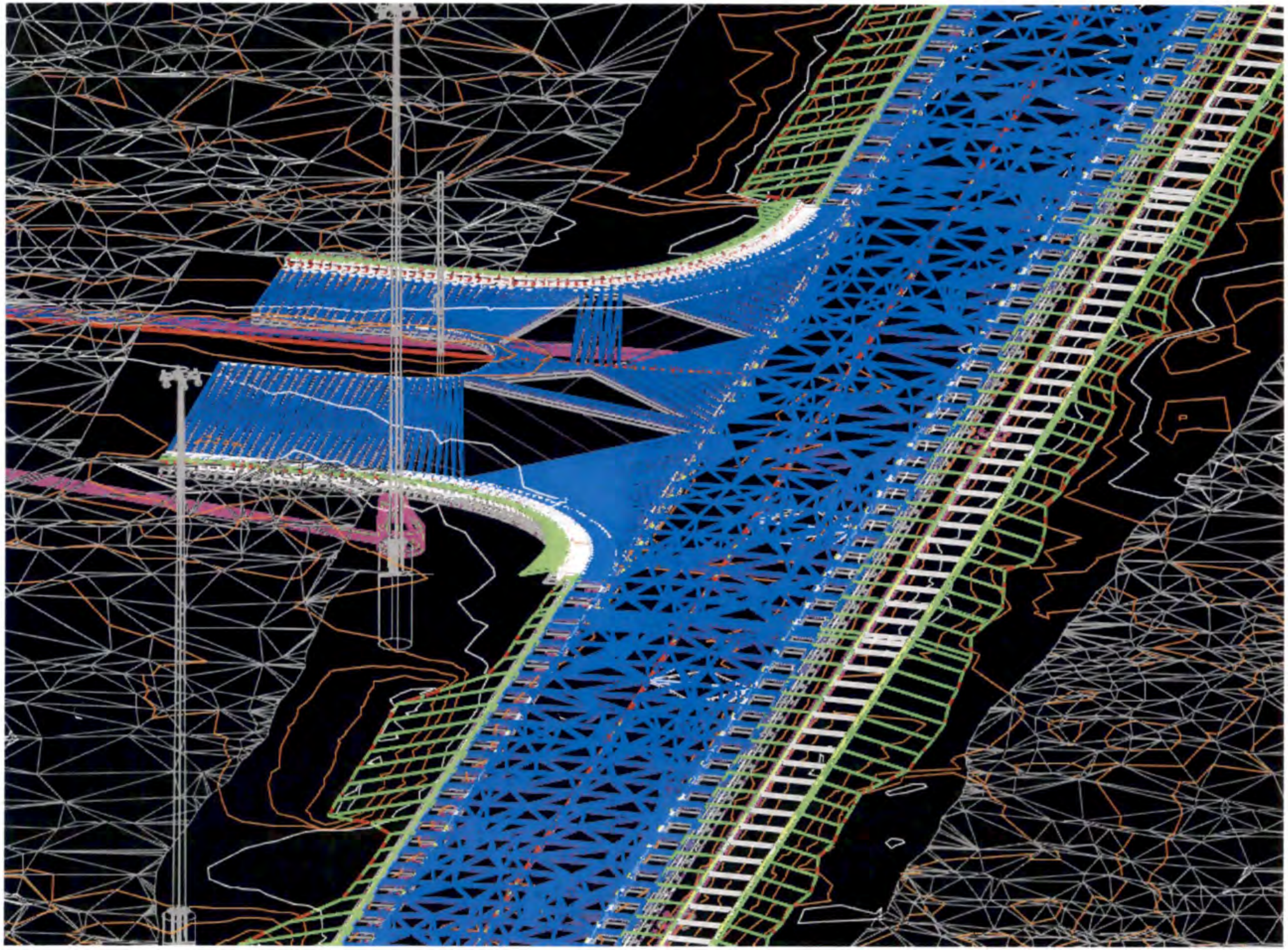
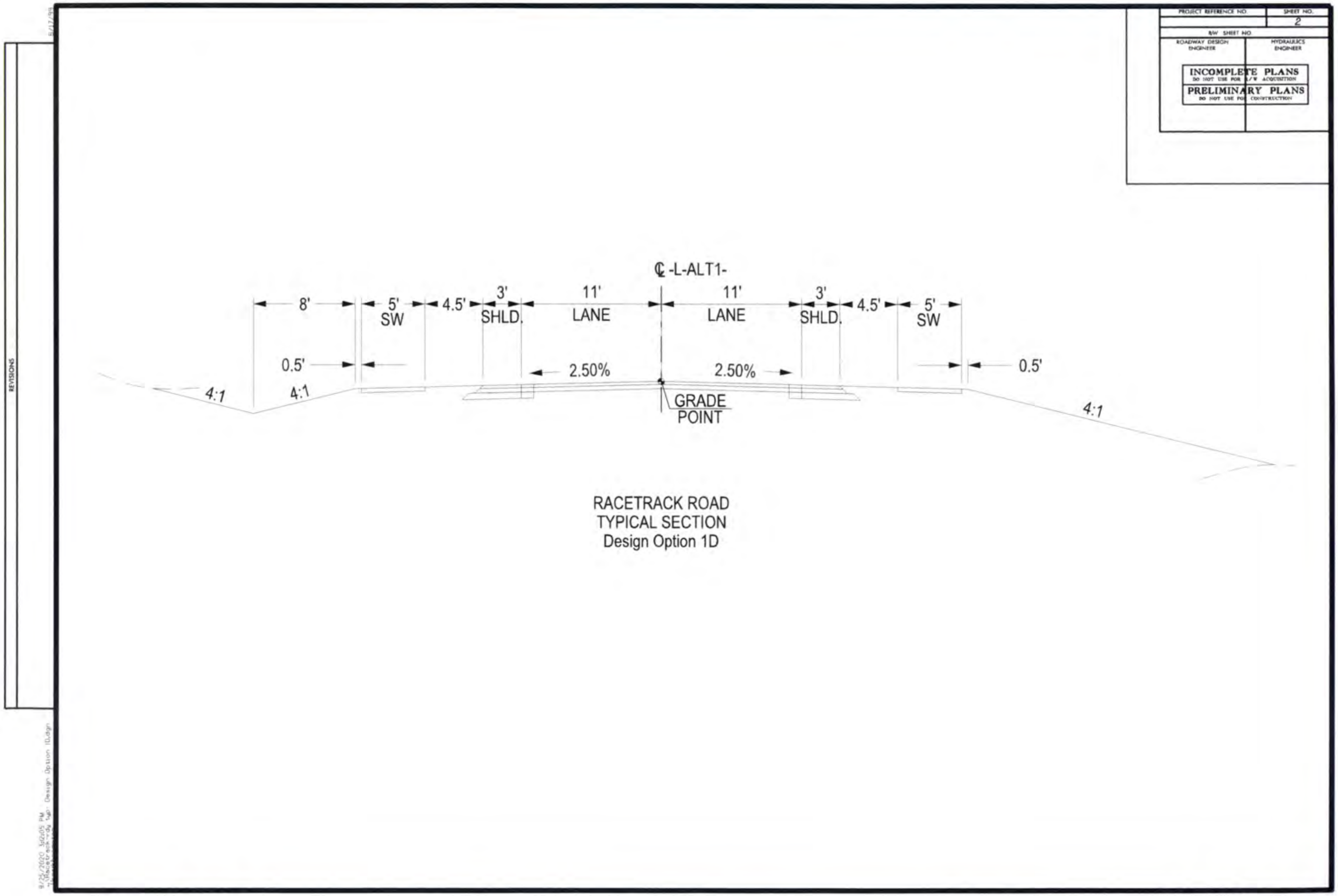


Racetrack Road at Derby Park Avenue - OpenRoads Model Detail for Option 1-C



RACETRACK ROAD
TYPICAL SECTION
Design Option 1D

Vaughn & Melton

Option 1 (D)

22-foot wide roadway with sidewalk on both sides

City of New Bern

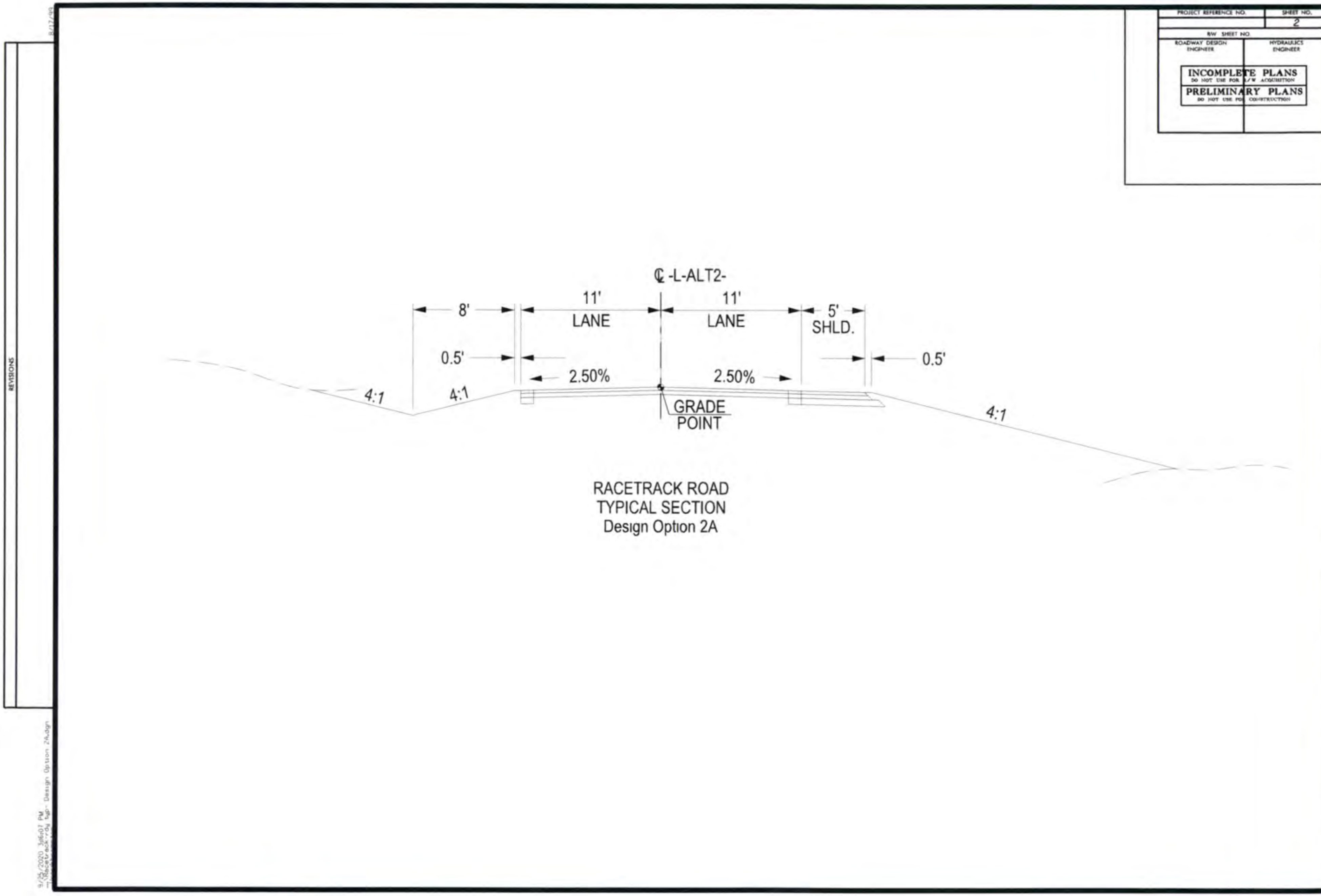
Racetack Road

From Elizabeth Ave to Neuse Blvd

GRADING, DRAINAGE, PAVING, PAVEMENT MARKINGS

Item Number	SECTION		DESCRIPTION	QUANTITY	UNIT	PRICE	Amount
0000100000-N	800		MOBILIZATION	1	LS	$69,000.00	$69,000 00
0000400000-N	801		CONSTRUCTION SURVEYING	1	LS	$60,000 00	$60,000.00
0001000000-E	200		CLEARING & GRUBBING	1	LS	$150,000.00	$150,000 00
0036000000-E	225		UNDERCUT EXCAVATION (contingency)	200	CY	$30 00	$6,000.00
0043000000-N	226		GRADING	1	LS	$105,000.00	$105,000.00
0194000000-E	265		SELECT GRANULAR MATERIAL, CLASS III (contingency)	200	CY	$20 00	$4,000 00
1220000000-E	545		INCIDENTAL STONE BASE	250	TON	$45 00	$11,250.00
1330000000-E	607		INCIDENTAL MILLING	1000	SY	$8 00	$8,000 00
1491000000-E	610		ASPHALT CONC BASE COURSE, TYPE B25.0C	820	TON	$120.00	$98,400.00
1519000000-E	610		ASPHALT CONC SURFACE COURSE, TYPE S9 5B	1875	TON	$110 00	$206,250 00
1693000000-E	654		ASPHALT PLANT MIX, PAVEMENT REPAIR	450	TON	$220 00	$99,000.00
2591000000-E	848		4" CONCRETE SIDEWALK	3600	SY	$60.00	$216,000 00
2549000000-E	846		2'-6" CONCRETE CURB & GUTTER	860	LF	$50.00	$43,000 00
2612000000-E	848		6" CONCRETE DRIVEWAY	780	SY	$125 00	$97,500.00
			WORK ZONE TRAFFIC CONTROL	1	LS	$90,000 00	$90,000.00
4685000000-E	1205		THERMOPLASTIC PAVEMENT MARKINGLINES (4", 90 MILS)	15130	LF	$1.20	$18,156 00
6000000000-E	1605		TEMPORARY SILT FENCE	7000	LF	$6 00	$42,000.00
6006000000-E	1610		STONE FOR EROSION CONTROL, CLASS A	50	TON	$50.00	$2,500.00
6009000000-E	1610		STONE FOR EROSION CONTROL, CLASS B	50	TON	$50 00	$2,500 00
6012000000-E	1610		SEDIMENT CONTROL STONE	100	TON	$40.00	$4,000 00
6015000000-E	1615		TEMPORARY MULCHING	2	ACR	$1,000 00	$2,000.00
6018000000-E	1620		SEED FOR TEMPORARY SEEDING	200	LB	$5.00	$1,000 00
6021000000-E	1620		FERTILIZER FOR TEMPORARY SEED-ING	2	TON	$800 00	$1,600.00
6036000000-E	1631		MATTING FOR EROSION CONTROL	10000	SY	$3 00	$30,000.00
6042000000-E	1632		1/4" HARDWARE CLOTH	360	LF	$8.00	$2,880 00
6071010000-E	SP		WATTLE	300	LF	$10 00	$3,000.00
6071030000-E	1640		COIR FIBER BAFFLE	100	LF	$10.00	$1,000 00
6084000000-E	1660		SEEDING & MULCHING	4	ACR	$2,000.00	$8,000 00

	$1,382,036.00
E&C (25%)	$345,509 00
Total	$1,727,545 00


PROJECT REFERENCE NO.
SHEET NO.
2
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
REVISIONS
℄ -L-ALT2-
8'
11'
LANE
11'
LANE
5'
SHLD.
0.5'
0.5'
2.50%
2.50%
4:1
4:1
4:1
GRADE POINT
RACETRACK ROAD
TYPICAL SECTION
Design Option 2A

Option 2 (A)

22-foot wide roadway with 5-foot paved shoulder on one side

City of New Bern
Racetrack Road
From Elizabeth Ave to Neuse Blvd
GRADING, DRAINAGE, PAVING, PAVEMENT MARKINGS

Item Number	SECTION		DESCRIPTION	QUANTITY	UNIT	PRICE	Amount
0000100000-N	800		MOBILIZATION	1	LS	$54,000 00	$54,000.00
0000400000-N	801		CONSTRUCTION SURVEYING	1	LS	$45,000.00	$45,000 00
0001000000-E	200		CLEARING & GRUBBING	1	LS	$120,000 00	$120,000.00
0036000000-E	225		UNDERCUT EXCAVATION (contingency)	200	CY	$30.00	$6,000 00
0043000000-E	226		GRADING	1	LS	$120,000 00	$120,000.00
0194000000-E	265		SELECT GRANULAR MATERIAL, CLASS III (contingency)	200	CY	$20.00	$4,000 00
1220000000-E	545		INCIDENTAL STONE BASE	250	TON	$45.00	$11,250.00
1330000000-E	607		INCIDENTAL MILLING	1000	SY	$8 00	$8,000.00
1491000000-E	610		ASPHALT CONC BASE COURSE, TYPE B25 0C	740	TON	$120 00	$88,800 00
1519000000-E	610		ASPHALT CONC SURFACE COURSE, TYPE S9.5B	1810	TON	$110.00	$199,100.00
1693000000-E	654		ASPHALT PLANT MIX, PAVEMENT REPAIR	450	TON	$220 00	$99,000.00
2549000000-E	846		2'-6" CONCRETE CURB & GUTTER	860	LF	$50.00	$43,000.00
2612000000-E	848		6" CONCRETE DRIVEWAY	780	SY	$125 00	$97,500 00
			WORK ZONE TRAFFIC CONTROL	1	LS	$80,000 00	$80,000.00
4685000000-E	1205		THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	15130	LF	$1 20	$18,156 00
6000000000-E	1605		TEMPORARY SILT FENCE	4000	LF	$6.00	$24,000.00
6006000000-E	1610		STONE FOR EROSION CONTROL, CLASS A	50	TON	$50 00	$2,500.00
6009000000-E	1610		STONE FOR EROSION CONTROL, CLASS B	50	TON	$50.00	$2,500.00
6012000000-E	1610		SEDIMENT CONTROL STONE	100	TON	$40 00	$4,000.00
6015000000-E	1615		TEMPORARY MULCHING	2	ACR	$1,000.00	$2,000.00
6018000000-E	1620		SEED FOR TEMPORARY SEEDING	200	LB	$5 00	$1,000.00
6021000000-E	1620		FERTILIZER FOR TEMPORARY SEEDING	2	TON	$800.00	$1,600.00
6036000000-E	1631		MATTING FOR EROSION CONTROL	10000	SY	$3 00	$30,000 00
6042000000-E	1632		1/4" HARDWARE CLOTH	360	LF	$8.00	$2,880.00
6071010000-E	SP		WATTLE	300	LF	$10.00	$3,000.00
6071030000-E	1640		COIR FIBER BAFFLE	100	LF	$10 00	$1,000.00
6084000000-E	1660		SEEDING & MULCHING	3	ACR	$2,000 00	$6,000 00

	$1,074,286 00
E&C (25%)	$268,571.50
Total	$1,342,857 50

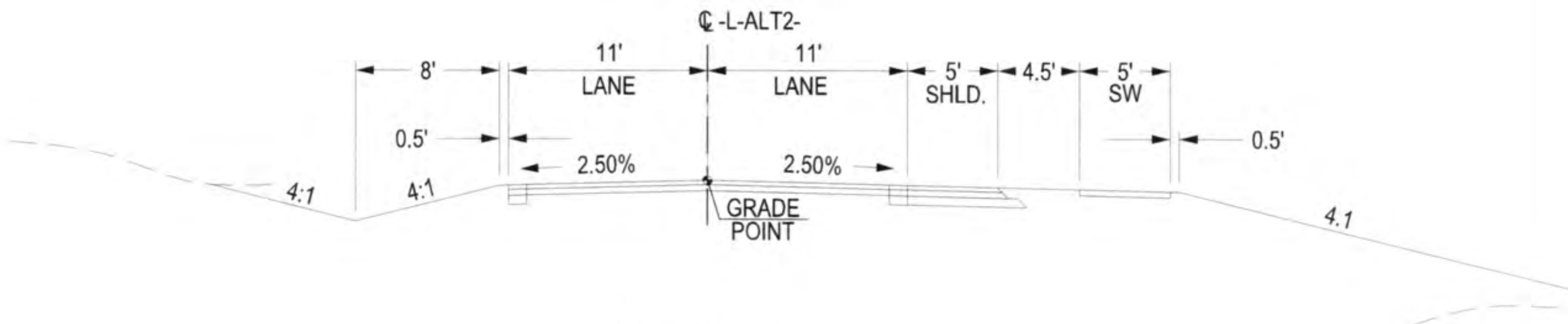
PROJECT REFERENCE NO. | SHEET NO. 2

R/W SHEET NO

ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



RACETRACK ROAD
TYPICAL SECTION
Design Option 2B

REVISIONS

Vaughn & Melton

Option 2 (B)

22-foot wide roadway with 5-foot paved shoulder and sidewalk on one side

City of New Bern
Racetrack Road
From Elizabeth Ave to Neuse Blvd
GRADING, DRAINAGE, PAVING, PAVEMENT MARKINGS

Item Number	SECTION		DESCRIPTION	QUANTITY	UNIT	PRICE	Amount
0000100000-N	800		MOBILIZATION	1	LS	$62,000.00	$62,000 00
0000400000-N	801		CONSTRUCTION SURVEYING	1	LS	$50,000 00	$50,000.00
0001000000-E	200		CLEARING & GRUBBING	1	LS	$140,000.00	$140,000.00
0036000000-E	225		UNDERCUT EXCAVATION (contingency)	200	CY	$30 00	$6,000.00
0043000000-E	226		GRADING	1	LS	$140,000.00	$140,000 00
0194000000-E	265		SELECT GRANULAR MATERIAL, CLASS III (contingency)	200	CY	$20 00	$4,000.00
1220000000-E	545		INCIDENTAL STONE BASE	250	TON	$45 00	$11,250 00
1330000000-E	607		INCIDENTAL MILLING	1000	SY	$8.00	$8,000.00
1491000000-E	610		ASPHALT CONC BASE COURSE, TYPE B25 0C	740	TON	$120.00	$88,800 00
1519000000-E	610		ASPHALT CONC SURFACE COURSE, TYPE S9.5B	1810	TON	$110 00	$199,100.00
1693000000-E	654		ASPHALT PLANT MIX, PAVEMENT REPAIR	450	TON	$220.00	$99,000 00
2591000000-E	848		4" CONCRETE SIDEWALK	1890	SY	$60 00	$113,400.00
2549000000-E	846		2'-6" CONCRETE CURB & GUTTER	860	LF	$50.00	$43,000 00
2612000000-E	848		6" CONCRETE DRIVEWAY	780	SY	$125.00	$97,500 00
			WORK ZONE TRAFFIC CONTROL	1	LS	$90,000 00	$90,000.00
4685000000-E	1205		THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	15130	LF	$1.20	$18,156 00
6000000000-E	1605		TEMPORARY SILT FENCE	4000	LF	$6.00	$24,000 00
6006000000-E	1610		STONE FOR EROSION CONTROL, CLASS A	50	TON	$50 00	$2,500.00
6009000000-E	1610		STONE FOR EROSION CONTROL, CLASS B	50	TON	$50.00	$2,500 00
6012000000-E	1610		SEDIMENT CONTROL STONE	100	TON	$40 00	$4,000.00
6015000000-E	1615		TEMPORARY MULCHING	2	ACR	$1,000.00	$2,000 00
6018000000-E	1620		SEED FOR TEMPORARY SEEDING	200	LB	$5 00	$1,000.00
6021000000-E	1620		FERTILIZER FOR TEMPORARY SEED-ING	2	TON	$800.00	$1,600 00
6036000000-E	1631		MATTING FOR EROSION CONTROL	10000	SY	$3.00	$30,000 00
6042000000-E	1632		1/4" HARDWARE CLOTH	360	LF	$8 00	$2,880.00
6071010000-E	SP		WATTLE	300	LF	$10.00	$3,000 00
6071030000-E	1640		COIR FIBER BAFFLE	100	LF	$10 00	$1,000.00
6084000000-E	1660		SEEDING & MULCHING	3	ACR	$2,000.00	$6,000 00

	$1,250,686 00
E&C (25%)	$312,671 50
Total	$1,563,357 50

Vaughn & Melton

Alternate 1
Pipe Replacement

City of New Bern
Racetrack Road
From Elizabeth Ave to Railroad
PIPE REPLACEMENT - 2 - 54" RCP's

Item Number	SECTION		DESCRIPTION	QUANTITY	UNIT	PRICE	Amount
0000100000-N	800		MOBILIZATION	1	LS	$4,000 00	$4,000 00
0448000000-E	310		54" RC PIPE CULVERTS, CLASS IV	128	LF	$330 00	$42,240.00
1693000000-E	654		ASPHALT PLANT MIX, PAVEMENT REPAIR	30	TON	$220 00	$6,600.00
2220000000-E	838		REINFORCED ENDWALLS	13 8	CY	$2,100 00	$28,980 00
			WORK ZONE TRAFFIC CONTROL	1	LS	$5,000 00	$5,000.00
4685000000-E	1205		THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	200	LF	$10 00	$2,000 00

	$88,820 00
E&C (15%)	$13,323 00
Total	$102,143 00

Alternate 2

22-foot wide roadway

City of New Bern
Racetrack Road
From Railroad to Neuse Blvd (~1285 feet)
RESURFACING, PAVEMENT MARKINGS

Item Number	SECTION		DESCRIPTION	QUANTITY	UNIT	PRICE	Amount
0000100000-N	800		MOBILIZATION	1	LS	$5,000 00	$5,000.00
1330000000-E	607		INCIDENTAL MILLING	250	SY	$8.00	$2,000 00
1519000000-E	610		ASPHALT CONC SURFACE COURSE, TYPE S9.5B	350	TON	$110.00	$38,500 00
1693000000-E	654		ASPHALT PLANT MIX, PAVEMENT REPAIR	120	TON	$220.00	$26,400 00
2647000000-E	852		5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	65	SY	$90.00	$5,850 00
4457000000-N	SP		TEMPORARY TRAFFIC CONTROL	1	LS	$8,000 00	$8,000 00
4685000000-E	1205		THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	5200	LF	$1 20	$6,240 00

	$91,990 00
E&C (15%)	$13,798 50
Total	$105,788 50

CITY OF NEW BERN

RACETRACK RD UPGRADE/WIDENING FUNDING OPTIONS

Installment Financing - 3%, 15 years	Estimated Project Cost	Total Annual Payments	Total Interest Cost	Total Payback
Option 1:	$ 325,000	$ 26,928	$ 78,980	$ 403,980
Option 1(B) incl. Alt 1 & 2:	$ 1,025,000	$ 84,936	$ 249,123	$ 1,274,123
Option 1(D) incl Alt 1 & 2:	$ 2,099,000	$ 173,940	$ 510,156	$ 2,609,156

Installment Financing - 3%, 20 years	Estimated Project Cost	Total Annual Payments	Total Interest Cost	Total Payback
Option 1:	$ 325,000	$ 21,624	$ 107,586	$ 432,586
Option 1(B) incl. Alt 1 & 2:	$ 1,025,000	$ 68,208	$ 1,364,310	$ 2,389,310
Option 1(D) incl Alt 1 & 2:	$ 2,099,000	$ 139,692	$ 694,841	$ 2,793,841