

**LYNCHBURG CITY COUNCIL
PHYSICAL DEVELOPMENT COMMITTEE**

**Tuesday, January 13, 2015
9:00 a.m.**

Information Items

Recent/Pending Contract Awards: –

<u>Project/Phase</u>	<u>Contractor/Consultant</u>	<u>Estimated Amount</u>	<u>Bid Amount</u>	<u>Contract Award</u>
Kemper Street Bridge/Interchange	English Construction	\$6,050,000.00	\$6,738,826.55	\$6,272,855.85
Memorial/Park/Lakeside Intersection Water Line Improvements	Counts & Dobyys	\$500,000.00	\$872,747.73	\$746,888.00

Update on priority projects – see attached report.

General Business

1. Vacate a portion of Waterton Drive Kevin Henry
2. Midtown Connector Phase I – Change Order No. 5 J.P. Morris
3. Region 2000 Long Range Transportation Plan (LRTP) Update Don DeBerry
4. Community Market Parking Deck Update Lee Newland
5. Odd Fellows Road Update Lee Newland
6. Roll Call

Pc: Kimball Payne, City Manager
Bonnie Svrcek, Deputy City Manager
Council Members
Gaynelle Hart, Director of Public Works
News & Advance

Next Meeting: February 10, 2015

Lynchburg Capital Projects (General Fund)

January 13, 2015

Projects of Interest		Status		Notes
Timberlake / Logan's Lane Intersection		Right of Way	November 2015	Reviewing Right of Way Needs - Appraisals
Wards Road Pedestrian X-ing 2B		Construction	March 2015	Trail Phase 2B - Winter Slowdown.
Midtown Connector		Construction	August 2015	Under Construction - Working on Langhorne 75% complete & Kemper 40% Complete -
Greenview Drive Phase 2	*	Advertising	November 2014	VDOT Taking to January CTB Meeting for Approvals
Kemper Street Bridge / Interchange	*	Construction	August 2016	Awarded in December - Pre-Construction in January - Start in March
One Way Pairs @ 501/221		Preliminary	August 2014	Preliminary Design being Completed to Determine Available R/W for Development
Lower Bluffwalk Phase 2		Construction	October 2014	Winding Down
Memorial - Park - Lakeside Intersection		Utilities Const.	May 2015	Project Underway to Install City Utilites separate from Project then ReBid
Miller Center Renovations	*	Construction	August 2014	Open to Public January.
Odd Fellows Road - P3	*	Advertising	May 2014	VDOT Taking to January CTB Meeting for Approvals
Lakeside Drive Improvements @ L.C.		Design	September 2014	30% Design - On Hold.
Harvard Road Improvements at Tunnel	*	Construction	November 2014	Complete.

APPLICATION FOR THE VACATION OF A
PORTION OF WATERTON DRIVE
LOCATED AT ITS INTERSECTION
WITH WHITLEY WAY

The undersigned applicant, Irvington Properties, LLC, pursuant to the provisions of Section 15.2-2006 of the Code of Virginia, 1950, as amended, and Section 35-71 through Section 35-77 of the City Code, 1981, as amended, respectfully makes application to the Lynchburg City Council for the vacation of that certain parcel described as follows:

ALL THAT CERTAIN PARCEL OF LAND, BEING A PORTION OF THE RIGHT-OF-WAY OF WATERTON DRIVE LOCATED AT ITS INTERSECTION WITH WHITLEY WAY IN THE CITY OF LYNCHBURG, VIRGINIA AND FURTHER DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT, WHICH POINT IS LOCATED ON THE EASTERLY RIGHT-OF-WAY LINE OF SAID WATERTON DRIVE, AND WHICH POINT IS A COMMON CORNER WITH LOT 5, WATERTON SUBDIVISION;

THENCE, WITH SAID LOT 5, ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 50.00 FEET AND AN ARC LENGTH OF 70.30 FEET, BEING SUBTENDED BY A CHORD OF NORTH 87 DEGREES 35 MINUTES 49 SECONDS EAST FOR A DISTANCE OF 64.65 FEET TO A POINT, WHICH POINT IS A COMMON CORNER WITH IRVINGTON PROPERTIES, LLC;

THENCE, WITH SAID IRVINGTON PROPERTIES, SOUTH 42 DEGREES 40 MINUTES 45 SECONDS EAST FOR A DISTANCE OF 50.00 FEET TO A POINT;

THENCE ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 50.00 FEET AND AN ARC LENGTH OF 70.30 FEET, BEING SUBTENDED BY A CHORD OF SOUTH 07 DEGREES 02 MINUTES 41 SECONDS WEST FOR A DISTANCE OF 64.65 FEET TO A POINT, WHICH POINT IS A COMMON CORNER WITH SAID IRVINGTON PROPERTIES AND WITH LOT 6, WATERTON SUBDIVISION, AND WHICH POINT IS LOCATED ON SAID EASTERLY LINE OF WATERTON DRIVE;

THENCE, WITH SAID LINE OF WATERTON DRIVE, ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 406.90 FEET AND AN ARC LENGTH OF 134.19 FEET, BEING SUBTENDED BY A CHORD OF NORTH 42 DEGREES 40 MINUTES 45 SECONDS WEST FOR A DISTANCE OF 133.59 FEET TO THE POINT OF BEGINNING;

TOGETHER WITH AND SUBJECT TO COVENANTS, EASEMENTS, AND RESTRICTIONS OF RECORD.

SAID PROPERTY CONTAINS 0.069 ACRES MORE OR LESS.

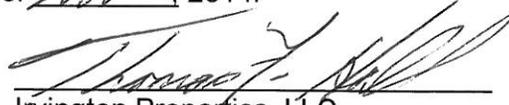
RECEIVED

NOV 16 2014

COMMUNITY
DEVELOPMENT

The applicant further requests the Lynchburg City Council to hold a public hearing on this application at its meeting to be held in the Council Chambers, City Hall, 900 Church Street, Lynchburg, Virginia, on January 15, 2015, at 7:30 p.m., or as soon thereafter as the matter may be heard, and at the conclusion of which hearing to consider whether or not to vacate the above described parcel.

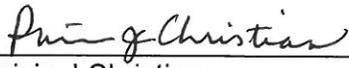
Given under my hand this 18 day of Nov., 2014.


Irvington Properties, LLC
Applicant

PO Box 1256
Amherst, Va 24521
Telephone Number: 1-434-946-5455

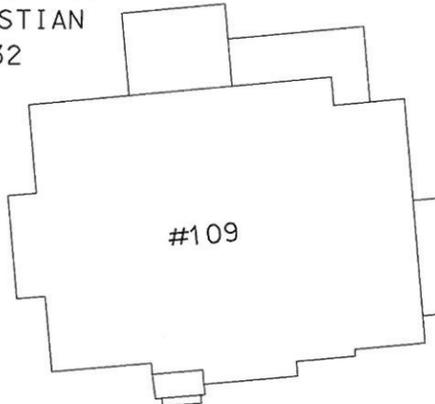
WE, THE ADJOINING PROPERTY OWNERS, ARE IN AGREEMENT WITH THE VACATION OF THE ABOVE DESCRIBED PROPERTY; AND, FURTHER, ARE IN AGREEMENT WITH THE APPORTIONMENT OF THE VACATED PARCEL BETWEEN THE TWO AFFECTED PROPERTY OWNERS.


William T Christian, Jr
Adjoining Owner


Patricia J Christian
Adjoining Owner

109 Waterton Drive
Lynchburg, VA 24503
Telephone Number: 434-384-2949

LOT 5
 WILLIAM T. CHRISTIAN, JR
 & PATRICIA J. CHRISTIAN
 INSTR #050013232
 PIN: 20912005

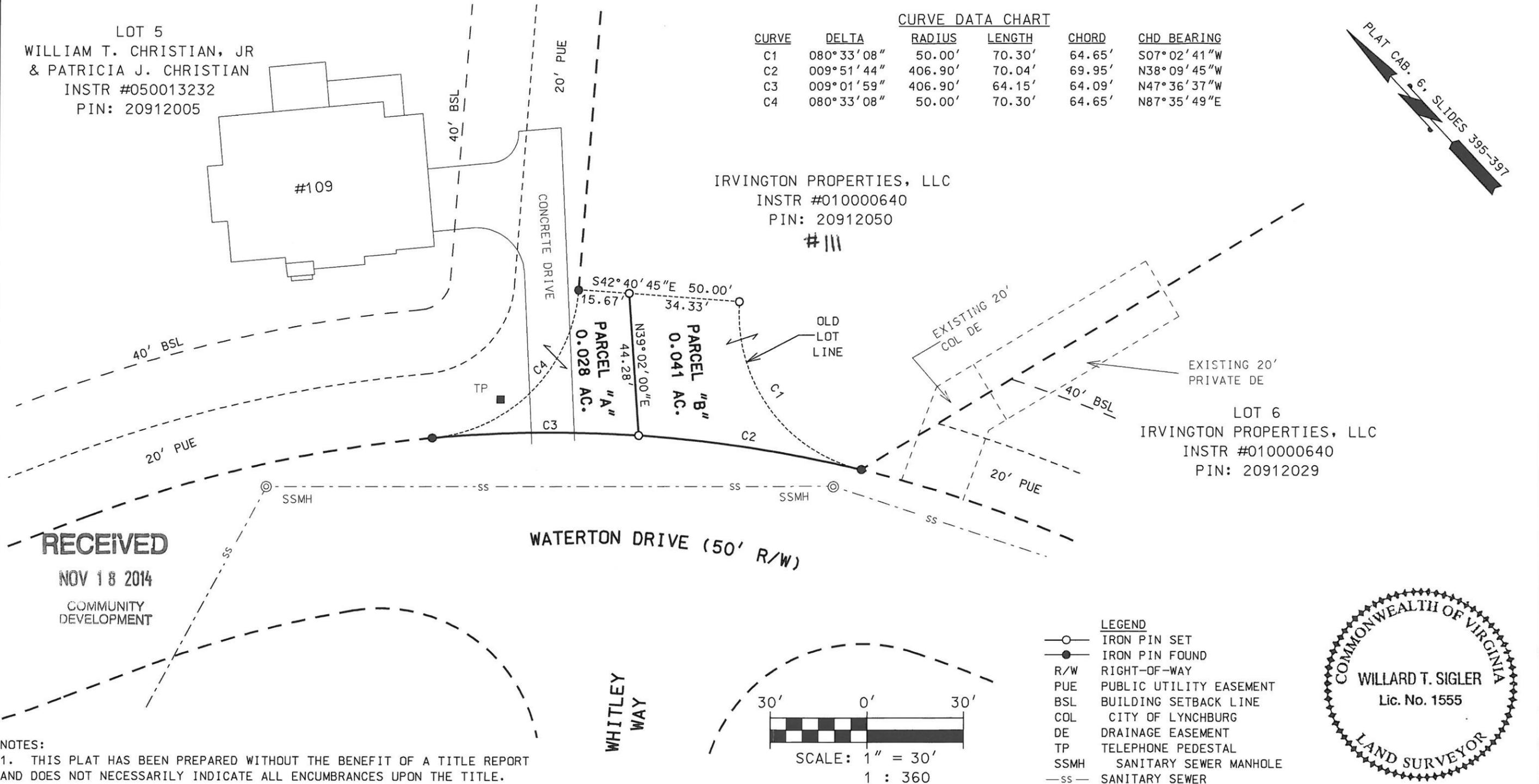


CURVE	DELTA	RADIUS	LENGTH	CHORD	CHD BEARING
C1	080°33'08"	50.00'	70.30'	64.65'	S07°02'41"W
C2	009°51'44"	406.90'	70.04'	69.95'	N38°09'45"W
C3	009°01'59"	406.90'	64.15'	64.09'	N47°36'37"W
C4	080°33'08"	50.00'	70.30'	64.65'	N87°35'49"E

IRVINGTON PROPERTIES, LLC
 INSTR #010000640
 PIN: 20912050
 # III

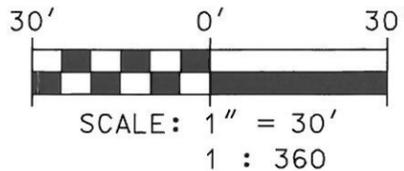
PARCEL "A"
 0.028 AC.
 N39°02'00"E
 44.28'

PARCEL "B"
 0.041 AC.
 S42°40'45"E
 50.00'



RECEIVED
 NOV 18 2014
 COMMUNITY DEVELOPMENT

- NOTES:
1. THIS PLAT HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT NECESSARILY INDICATE ALL ENCUMBRANCES UPON THE TITLE.
 2. BY GRAPHIC SCALING ONLY, THIS PROPERTY IS LOCATED IN ZONE "X" (NOT IN A DESIGNATED FLOOD HAZARD AREA) ACCORDING TO THE F.E.M.A. FLOOD INSURANCE RATE MAPS FOR THE CITY OF LYNCHBURG, VIRGINIA (#5100930028D & #5100930036D). NO FIELD SURVEYING WAS PERFORMED TO MAKE THIS DETERMINATION.
 3. THIS PLAT DOES NOT PURPORT TO ADDRESS THE EXISTENCE, DETECTION OR DELINEATION OF ANY ENVIRONMENTALLY SENSITIVE AREAS OR ANY ENVIRONMENTAL PROBLEMS LOCATED WITHIN THE PERIMETER OF THE PROPERTY SHOWN.
 4. THIS PLAT HAS BEEN PREPARED FROM AN ACTUAL FIELD SURVEY DONE AS PER DATE OF THIS PLAT ONLY OF PARCELS "A" & "B".
 5. TOTAL ACREAGE TO BE VACATED - 0.069 ACRES.



- LEGEND
- IRON PIN SET
 - IRON PIN FOUND
 - R/W RIGHT-OF-WAY
 - PUE PUBLIC UTILITY EASEMENT
 - BSL BUILDING SETBACK LINE
 - COL CITY OF LYNCHBURG
 - DE DRAINAGE EASEMENT
 - TP TELEPHONE PEDESTAL
 - SSMH SANITARY SEWER MANHOLE
 - SS- SANITARY SEWER



BERKLEY-HOWELL & ASSOC., P.C.
 ENGINEERS - SURVEYORS - PLANNERS
 306 ENTERPRISE DRIVE, SUITE C
 FOREST, VIRGINIA 24551
 PHONE: (434)385-7548 FAX: (434)385-6178

PLAT OF PORTION OF R/W OF
 WATERTON DRIVE
 PROPOSED TO BE VACATED
 CITY OF LYNCHBURG, VIRGINIA

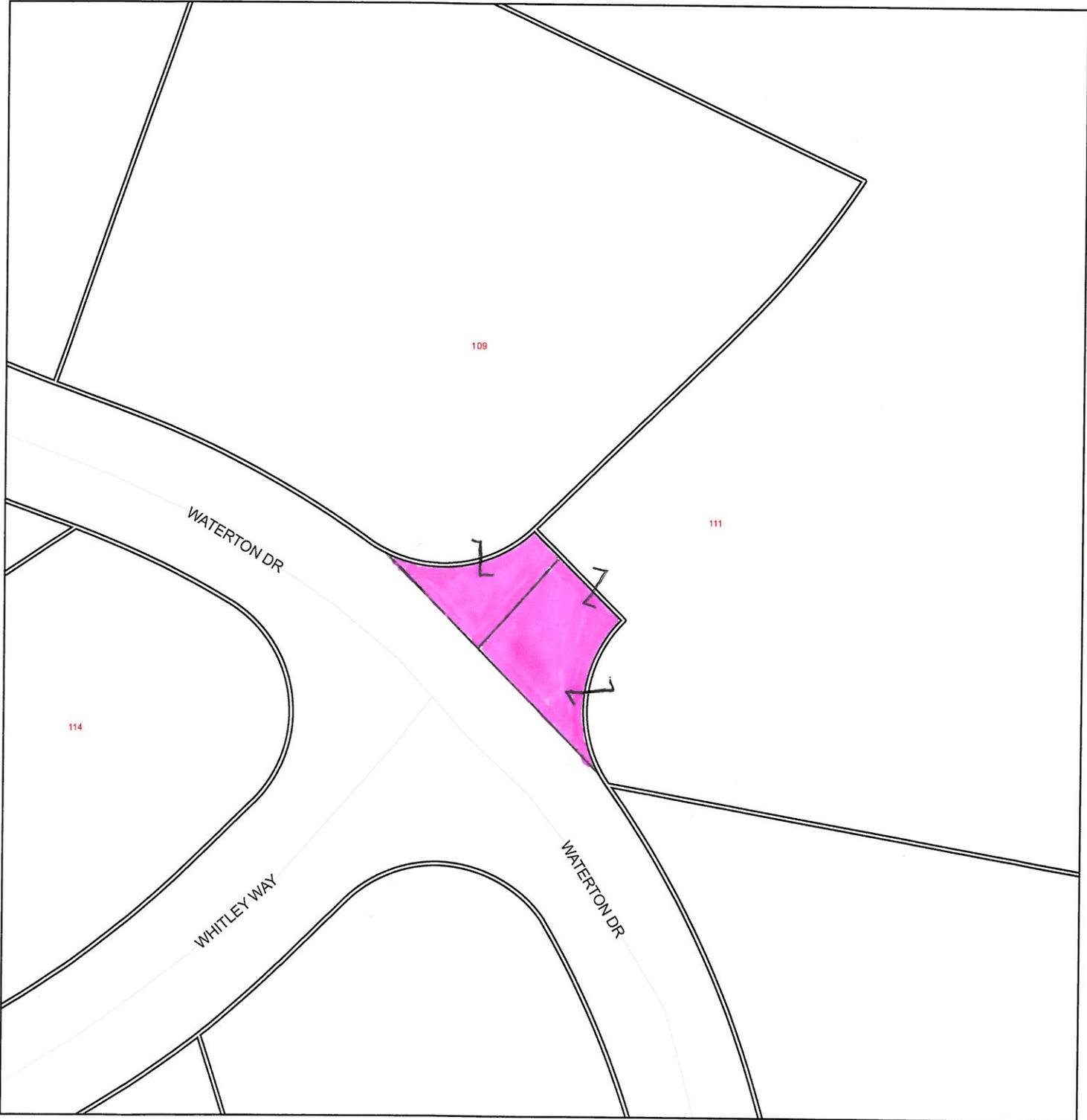
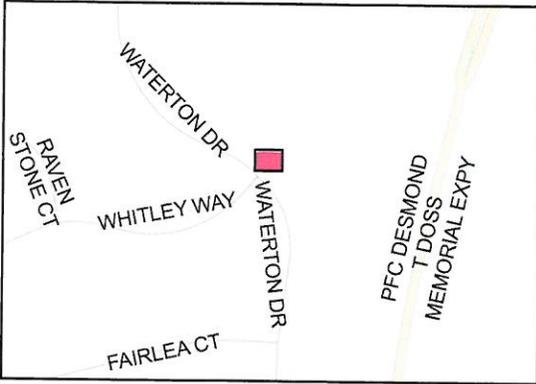
SCALE: 1" = 30'	DATE: NOVEMBER 12, 2014	COMM. NO. 010015	F.B. REF.
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109-111 Waterton Drive

Right-of-Way Vacation



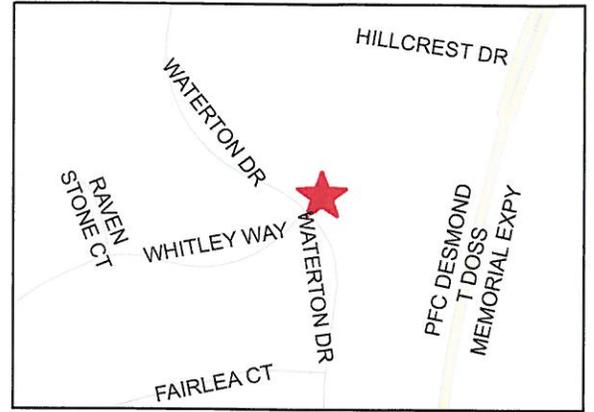
Area to be vacated



109-111 Waterton Drive

Right-of-Way Vacation

★ Location



LYNCHBURG CITY COUNCIL

Agenda Item Summary

MEETING DATE: **13 January 2015 (PDC)**

AGENDA ITEM NO.:

CONSENT:

REGULAR: **X**

CLOSED SESSION:

ACTION: **X**

INFORMATION:

(Confidential)

ITEM TITLE: **Midtown Connector Phase I – Change Order No. 5**

RECOMMENDATION: Authorize execution of Change Order No. 5.

SUMMARY: The purpose of this agenda item is to present to Council the subject Change Order for review and approval for execution. The Construction Administration, Quality Assurance, Quality Control Inspection and Project Controls services for the Midtown Connector project were originally contracted for a 30-month time period pursuant to the construction bid documents. Conditions unforeseen by the City and its consultant have caused the project duration to run beyond the original 30-month duration, thus requiring additional services to complete the work in compliance with the requirements of State and Federal funding. Complete details of the breadth and depth of services provided are included in the attached fee proposal. The value of this change order exceeds 25% of the original contract value and, therefore, requires Council's authorization to execute.

PRIOR ACTION(S):

None

FISCAL IMPACT:

Authorizes expenditure of funds currently appropriated to the project.

CONTACT(S):

J. P. Morris, P.E., Engineering Project Manager – Midtown Connector Project – 455-3918

Dee Dee Conner, P.E., Principal Engineer – 455-3928

ATTACHMENT(S):

Change Order No. 5.

Fee Proposal for Supplemental CA and Inspection Services

REVIEWED BY:

CHANGE ORDER No. 5

DATE OF ISSUANCE: 13 January 2014 EXECUTION DATE _____

Distribution to:

OWNER: City of Lynchburg
CONTRACTOR: AECOM
PROJECT: Midtown Connector – Phase II Construction Administration, Quality Assurance/Quality Control Inspection and Project Controls Services
Federal Project No. 5118(204), VDOT UPC # 8759,
VDOT Project No. U000-118-V09, PE101, RW201, RW202, C501
CITY PROJECT NO. 89114-R
ENGINEER: J. P. Morris, P.E.

Description: Supplement for Additional Construction Services

Additional services are required for the Construction Administration (CA), Quality Assurance / Quality Control Inspection and Project Controls Services due to inefficiencies and delays experienced throughout the duration of the project. In addition, based on the latest schedule update (26), the project completion date has extended the project until October 6, 2015 with the expectation that this date will slide to December 31, 2015. AECOM will continue to provide construction administration services assisted by HDLA, MBP, and NXL. MBP will provide the on-site Quality Assurance Manager. NXL will provide the Inspection Team and Schedule Analyst. The work will be performed within the guidelines of the Virginia Department of Transportation (VDOT) Local Assistance Program Guidelines. A schedule of minimum required test and frequencies was previously documented in the original scope of services.

Details of the proposed services with additional detailed scopes are outlined in the attached supporting documents.

Reason for the Change: Additional construction phase services beyond original scope and fee.

The contract time has been extended through the calendar year 2014 construction season as contract funding allows.

Original Contract	\$2,949,467.00
Change Order No. 1	\$7,875.00
Change Order No. 2	\$16,883.00
Change Order No. 3	\$2,000.00
Change Order No. 4	\$710,608.00
Adjustment (this request)	\$1,472,233.00
Adjusted Contract Total	\$5,159,066.00

Not valid until signed by the Owner/Engineer, and Contractor.

Signature of the Contractor indicates his agreement herewith including any adjustment in the Contract time.

Approved:

Accepted:

L. Kimball Payne
City Manager
City of Lynchburg

J. Scott Hodge, P.E.
Senior Project Manager
AECOM

DATE _____

DATE _____

FEE PROPOSAL

FOR

**MIDTOWN CONNECTOR, PHASE II PROJECT
UPC 8759, PROJECT NO. U000-118-V09, PE101,
RW201, RW202 & C501
Supplemental CA and Inspection Services**

LYNCHBURG, VIRGINIA

PREPARED FOR

**CITY OF LYNCHBURG, VIRGINIA
December 5, 2014**

PREPARED BY:

**AECOM TECHNICAL SERVICES, INC.
10 SOUTH JEFFERSON ST., SUITE 1600
ROANOKE, VIRGINIA 24011**

Midtown Connector, Phase II
UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202, C501
City of Lynchburg/Virginia Department of Transportation
AECOM Project No. 60179112 (30264)
Phase II Construction Administration,
Quality Assurance/Quality Control Inspection and Project Controls Services
Supplemental Construction Administration and Inspection Services Agreement

December 5, 2014

TABLE OF CONTENTS

FEE PROPOSAL

- Narrative of Work
- Project Cost Summary
- Sub-consultant Proposals

Midtown Connector, Phase II
UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202, C501
City of Lynchburg/Virginia Department of Transportation
AECOM Project No. 60179112 (30264)
Phase II Construction Administration,
Quality Assurance/Quality Control Inspection and Project Controls Services

Supplemental Construction Administration and Inspection Services Agreement

December 5, 2014

Scope of Services

Description

Additional services have been required for the Phase II Construction Administration (CA), Quality Assurance/Quality Control Inspection and Project Controls Services due to inefficiencies and delays by the contractor during the first 24 months of the project. In addition, based on the latest schedule update (26), the project completion date has extended the project until October 6, 2015 with the expectation that this date will slide to December 31, 2015. AECOM will continue to provide construction administration services assisted by HDLA, MBP, and NXL. MBP will provide the on-site Quality Assurance Manager. NXL will provide the Inspection Team and Schedule Analyst. The work will be performed within the guidelines of the Virginia Department of Transportation (VDOT) Local Assistance Program Guidelines. A schedule of minimum required test and frequencies was previously provided with the original CA scope of services.

This proposal will not provide services beyond the stated allowable funding amount. Based on historical data this may get the project to the end of the 2015 calendar year. Additional funding will be required to complete the Construction Administration (CA), Quality Assurance/Quality Control Inspection and Project Controls Services for the project if the project extends into 2016.

Details of the proposed services with additional detailed scopes are outlined below.

Construction Administration

As the Designer of Record, AECOM and HDLA will provide certain Construction Administration (CA) services throughout the additional time necessary to complete the project. This is based on the stated allowable funding amount. As a minimum, these Construction Administration services include:

- Conducting monthly progress meetings.
- Making monthly site visits as required by the construction progress.
- Responding to contractor questions through a Request for Information (RFI) system.
- Prepare plan revisions as required.
- General coordination with the City and VDOT.
- Review and approval of shop drawings.
- Review and approval of the contractor's monthly pay requests.

- Coordinating adjustments due to existing sanitary sewer laterals

Construction Administration Services are predicated on these conditions:

- The actual duration of CA services will correspond to the actual final project duration.
- The estimated man-hours are based on two attendees for each monthly meeting, and a minimum of two individuals per site visit dependent on the issue at hand.
- Contractor pay request reviews will be based on prior agreement of the Inspection Team and the Contractor of pay quantities at the designated monthly payment cutoff date. Once approved, the requests will be provided to the City for timely payment processing to the Contractor.
- The contractor is responsible for all safety related issues on the project and the project team is excluded from safety on the project.

Quality Assurance (QA) and Quality Control (QC)

MBP will provide the on-site Quality Assurance and NXL Construction Company Inc. will provide the on-site Quality Control (QC) Inspection Services and Project Controls (PC) services for the stated allowable funding amount. Inspection Services include but are not limited to inspection of all construction activities in accordance with VDOT and FHWA standards and specifications, including the performance of onsite project QC and QA testing of soils, soils compaction, hydraulic cement concrete, aggregate subbase/base depth and density, and hot mix asphalt concrete depth and density. In addition, the preparation, maintenance and submission of corresponding project documentation including Project Diaries and Materials Notebook, Quality Control and Quality Assurance laboratory tests for soils (3-Point Proctor and Atterberg Limits), reinforcing steel (tensile strength), hydraulic cement concrete (compressive strength) and hot mix asphalt concrete (density by cores).

The anticipated staffing and field support for the project is as follows:

Quality Assurance Manager (MBP) and Inspectors(NXL) -

- 1- Part Time Quality Assurance Manager (QAM)
- 1 – Full Time Senior Construction Manager (Project Inspector)
2 – Full Time Senior Inspectors
1 – Full Time Inspector during peak construction activities
1 – Full Time Office Engineer/Inspector

The forgoing includes vehicles, cell phones; laptop computers preloaded with Microsoft Office Software Suite, and all necessary testing equipment to perform project QA/QC inspection activities in accordance with VDOT, FHWA, City of Lynchburg, Virginia Department of Health and AWWA standards specifications and regulatory requirements.

- QC/QA sampling and laboratory testing (AMRL/AASHTO Certified)

All Inspectors will have the following certifications, VDOT and others, applicable to the work to be performed:

- Asphalt Concrete, Field
- Hydraulic Cement Concrete, Field (ACI & VDOT)
- Soils and Aggregate
- Surface Treatment
- Slurry Treatment
- Guardrail Installation
- Pavement Marking
- Nuclear Safety
- OSHA 10-Hour
- E&S Inspector (as administered by the Department of Conservation and Recreation)
- Work Area Protection
- Intermediate Work Zone Safety

General Comments:

- The actual duration of inspection services will correspond to the work schedule provided by the Contractor.
- NXL will work out of an office trailer/facility provided by the Contractor to include, among other things, furnished electric, water, and sanitary sewer services, and land line telephone and high speed internet connectivity services. The office trailer will be secured with a peripheral 6' high chain link fence and the trailer will have secured windows and doors with an integrated alarm system. The office trailer shall meet the requirements of a VDOT Type 1 Field Office as described in the 2007 Road and Bridge Specifications.
- Estimated man-hours are based upon the previous man-hours over the past construction season and increase in contractor staffing.

Project Controls (PC)

As per the original contract the following project controls will be provided for the stated allowable funding amount.

Schedule Updates:

- Represent the City at monthly progress meetings.
- Analyze Contractor's monthly schedule updates and prepare a written report for the City. Evaluate and report progress from Activity - Production Viewpoint as well as an Earnings Viewpoint.
- Develop draft correspondence responding to Contractor's monthly schedule submission.
- Included in the above Project Control tasks are the following:
 - Maintain electronic copies & hard copies of all scheduling submittals / correspondence.
 - Collect & maintain photo documentation of project on monthly basis.
 - Provide Owners and the AECOM Team copies of all scheduling reports.
 - Be available to Owners & Construction Managers to answer schedule / progress related questions.

Excluded from Project Controls Services:

- Review and develop reports of any schedule impact analysis that may be generated.

Should any of the following occur, MBP and NXL Construction Services, Inc. shall receive additional compensation for QA/QC/PC services:

- The Contractor elects to work multiple daily shifts or routinely on Saturdays, thus increasing the need for daily inspection staffing.
- The Contractor alters and/or extends the construction schedule effectively exceeding the current stated allowable funding amount, thus increasing the duration of required services.

The following items are not included in this overall scope of services:

- Environmental Permitting
- Claims Analysis and Negotiations
- Cost Analysis of Claims
- Dispute Resolution
- Construction Surveying
- Construction/Project Management Computer Software required by the City of Lynchburg
- Monitoring of Overall Total Project Costs (Contractor, City, VDOT, and Design Team)
- Evaluation or resolution of any Hazardous Environmental Condition
- Provide Construction Phase Services beyond the contract times set forth in the above scope of services
- Preparing to serve or serving as a consultant or witness for the City in any litigation, arbitration, or other dispute resolution process related to the project
- Provide a Resident Project Representative (RPR) as defined in the VDOT Locally Administered Projects (LAP) Manual

Midtown Connector, Phase II Project
UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202 & C501
City of Lynchburg, Virginia

City of Lynchburg/Virginia Department of Transportation
AECOM Project No. 60179112
Supplemental Construction Administration and Inspection Services
December 5, 2014

SUMMARY COST FOR FIXED BILLABLE RATE CONTRACT SUPPLEMENT

	Rate	
A. Direct Labor, Estimated Est. Man-hrs X Current Hourly Rates		\$79,114
B. Escalation (See Computation of Escalation Factor)	\$	3,624
C. Total Direct Labor (A + B)	\$	82,738
D. Overhead (Payroll Burden + Overhead, G&A) Audited Overhead Rate (R) X C	\$ 147.56%	122,088
E. Total Direct Labor Plus Overhead (C + D)	\$	204,826
F. Direct Labor Plus Overhead Contingency (Contingency Rate X E)	5% \$	-
G. Negotiated Net Fee (10%) Based on (E + F) with Overhead Limit of 156%	\$	20,483
H. Cost of Facilities Capital (Audited Rate X C)	0.00% \$	-
I. Nonsalary Direct Cost, Estimated		\$1,733
J. Nonsalary Contingency (5%) Contingency Rate X (H + I)	\$	-
K. Sub-consultant Cost, Estimated		\$1,245,191
HDLA	\$11,757	
MBP	\$29,367	
NXL	\$1,204,067	
L. Maximum Total Compensation Payable (E + F + G + H + I + J + K)	\$	1,472,233
M. Amount Not To Exceed Without Written City Approval (L-F-J)	\$	1,472,233

Midtown Connector, Phase II Project
UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202 & C501
City of Lynchburg, Virginia

City of Lynchburg/Virginia Department of Transportation
AECOM Project No. 60179112
Supplemental Construction Administration and Inspection Services
December 5, 2014

Computation of Direct Cost Technical Salaries

CATEGORY	HOURS	RATE	AMOUNT
PROJECT MANAGER	480	\$65.38	\$31,382
SENIOR ENGINEER	248	\$54.83	\$13,598
ENGINEER	724	\$42.91	\$31,067
TECHNICIAN	88	\$28.43	\$2,502
CLERICAL	28	\$20.19	\$565
TOTALS	1568		\$79,114

Midtown Connector, Phase II Project
UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202 & C501
City of Lynchburg, Virginia

City of Lynchburg/Virginia Department of Transportation
AECOM Project No. 60179112
Supplemental Construction Administration and Inspection Services
December 5, 2014

Distribution of Manhours

TASK	SUB- ACTIVITY	Project Manager HOURS	Senior Engineer HOURS	Engineer HOURS	Tech. HOURS	Clerical HOURS	Total HOURS
Construction Administration	CA	480	248	724	88	28	1568
Percent		31%	16%	46%	6%	2%	100%
Total		480	248	724	88	28	1568

Midtown Connector, Phase II Project
 UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202 & C501
 City of Lynchburg, Virginia

City of Lynchburg/Virginia Department of Transportation
 AECOM Project No. 60179112
 Supplemental Construction Administration and Inspection Services
 December 5, 2014

Distribution of Manhours and Technical Salaries

TASK	SUB- ACTIVITY	PROJ. MANAGER		SENIOR ENGINEER		ENGINEER		TECHNICIAN		CLERICAL		TOTALS	
		HOURS	DOLLAR	HOURS	DOLLAR	HOURS	DOLLAR	HOURS	DOLLAR	HOURS	DOLLAR	HOURS	DOLLAR
			\$65.38		\$54.83		\$42.91		\$28.43		\$20.19		
Construction Administration	CA	480	\$31,382	248	\$13,598	724	\$31,067	88	\$2,502	28	\$565	1568	\$79,114
Percent		31%		16%		46%		6%		2%		100%	
Total		480	\$31,382	248	\$13,598	724	\$31,067	88	\$2,502	28	\$565	1568	\$79,114

Midtown Connector, Phase II Project
UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202 & C501
City of Lynchburg, Virginia

City of Lynchburg/Virginia Department of Transportation
AECOM Project No. 60179112

December 5, 2014

Construction Administration & Inspection Direct Expense Schedule

ITEM	UNITS	UNIT COST	TOTAL COST
TRAVEL			\$1,344
TOTAL PRINTING & REPRODUCTION COSTS			\$389
TOTAL DIRECT COSTS			\$1,733

Midtown Connector, Phase II Project
 UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202 & C501
 City of Lynchburg, Virginia

City of Lynchburg/Virginia Department of Transportation
 AECOM Project No. 60179112

Supplemental Construction Administration and Inspection Services
 December 5, 2014

ESTIMATED TRAVEL AND PER DIEM COSTS

Unit Travel Costs

Auto Mileage (Round Trip)

Roanoke - Lynchburg 120 Miles X \$0.560 = \$67

Summary of Projected Trips

	Meetings (From Schedule of Trips)	Field Visits (From Schedule of Trips)	Total
Lynchburg	12	8	20

Trip Costs:

Trips to Lynchburg (\$67 $\frac{\text{AUTO}}{\text{MILEAGE}}$ + 0 X \$0 $\frac{\text{PER}}{\text{DIEM}}$) X 20 (# of trips) = \$1,344

TOTAL TRAVEL AND PER DIEM COSTS \$1,344

Midtown Connector, Phase II Project
 UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202 & C501
 City of Lynchburg, Virginia

City of Lynchburg/Virginia Department of Transportation
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Supplemental Construction Administration and Inspection Services
 December 5, 2014

Schedule of Trips

	<u>Purpose</u>	Number of Trips <u>Lynchburg</u>
<u>MEETINGS</u>		
<i>CONSTRUCTION</i>	Pre-Construction Conference	
	Monthly Coordination Meetings	12
<hr/> <u>FIELD VISITS</u>		
<i>CONSTRUCTION</i>	Monthly Field Visits	8
	Substantial Completion	
	Final Completion	
<hr/> <u>SUMMARY</u>		
	Meetings in Lynchburg	12
	Field Visits in Lynchburg	8

Midtown Connector, Phase II Project
UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202 & C501
City of Lynchburg, Virginia

City of Lynchburg/Virginia Department of Transportation
AECOM Project No. 60179112

December 5, 2014

**CONSTRUCTION ADMINISTRATION & INSPECTION SERVICES
ESTIMATED PRINTING AND REPRODUCTION COSTS (SHEET 1 OF 2)**

UNIT COSTS

CADD PLOTS:

BOND SCROLLS, 36" x 84" (21 Sq.Ft.)	\$7.00 /PLOT
BOND PLAN SHEETS, 24" x 36" (6 Sq.Ft.)	\$2.00 /PLOT

BOND PRINTS:

PLAN SHEETS AT 24"X36"	24" X 36" = 6 SQ.FT.	X	\$0.09 /SQ.FT.	=	\$0.54 /PRINT
SCROLLS AT 36"X84"	36" X 84" = 24 SQ.FT.	X	\$0.09 /SQ.FT.	=	\$1.89 /PRINT

OFFICE COPIER:

8 1/2"X11" BOND	\$0.07 /COPY
11"X17" BOND	\$0.15 /COPY
8 1/2"X11" COLOR	\$0.80 /COPY
11"X17" COLOR	\$1.60 /COPY

BROCHURES: EACH (EST.)	\$5.00 EACH
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MOUNTING & LAMINATION	\$15.00 /SF
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COLOR PLOTTING, MOUNTING, & LAMINATION	\$16.17 /SF
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Midtown Connector, Phase II Project
 UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202 & C501
 City of Lynchburg, Virginia

City of Lynchburg/Virginia Department of Transportation
 AECOM Project No. 60179112

December 5, 2014

**CONSTRUCTION ADMINISTRATION & INSPECTION SERVICES
 ESTIMATED PRINTING AND REPRODUCTION COSTS (SHEET 2 OF 2)**

CONTRACTOR RFI'S

CADD

PLOTS	16 SHEETS	X	1 SET	X	\$2.00 =	\$32
	X-SECTIONS	X	SETS	X	\$2.00 =	\$0
	MOT X-SECTIC	X	SETS	X	\$2.00 =	\$0

PRINTS	16 SHEETS	X	2 SETS	X	\$0.54 =	\$17
	X-SECTIONS	X	SETS	X	\$0.54 =	\$0
	MOT X-SECTIC	X	SETS	X	\$0.54 =	\$0

TOTAL - 100% SUBMISSION \$49

AS-BUILT

CADD

SUBMITTAL PLOTS	0 SHEETS	X	1 SET	X	\$2.00 =	\$0
	X-SECTIONS	X	SET	X	\$2.00 =	\$0
	MOT X-SECTIC	X	SET	X	\$2.00 =	\$0

PRINTS	0 SHEETS	X	6 SETS	X	\$0.54 =	\$0
	X-SECTIONS	X	SETS	X	\$0.54 =	\$0
	MOT X-SECTIC	X	SETS	X	\$0.54 =	\$0

TOTAL - FINAL SUBMISSION \$0

MISCELLANEOUS PLOTS & PRINTS

Allowance for Additional Sets of Prints	42 SHEETS	X	15 SETS	X	\$0.54 =	\$340
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TOTAL - MISCELLANEOUS PLOTS \$340

TOTAL PRINTING AND REPRODUCTION \$389

Midtown Connector, Phase II Project
UPC 8759, Project No. U000-118-V09, PE101, RW201, RW202 & C501
City of Lynchburg, Virginia

City of Lynchburg/Virginia Department of Transportation
AECOM Project No. 60179112
Supplemental Construction Administration and Inspection Services
December 5, 2014

Computation of Escalation Factor

<u>Period</u>	<u>Direct Labor</u>	<u>Escalation Factor</u> (year 1, 0.5%; remaining years, 1%)	<u>Direct Labor + Escalation</u>
2011	\$0	1.005	\$0
2012	\$0	1.0151	\$0
2013	\$0	1.0252	\$0
2014	\$0	1.0355	\$0
2015	\$79,114	1.0458	\$82,738
Totals:	\$79,114		\$82,738
		Total Escalation:	\$3,624
Total AECOM Roadway Escalation			\$3,624

FEE PROPOSAL

FOR

**MIDTOWN CONNECTOR, PHASE II PROJECT
UPC 8759, PROJECT NO. U000-118-V09, PE101,
RW201, RW202 & C501**

Supplemental CA and Inspection Services

LYNCHBURG, VIRGINIA

PREPARED FOR:

AECOM TECHNICAL SERVICES, INC.

PREPARED BY:

HDLA, INC.

**901 Jefferson Street, Suite 208
LYNCHBURG, VIRGINIA 24504**



December 4, 2014

Mr. Scott Hodge, PE
Senior Project Manager
AECOM
1315 Franklin Road
Roanoke VA 24016

RE: Midtown Connector - Lynchburg, Virginia
Construction Administration Services - Supplement #2

Dear Mr. Hodge,

Thank you for the opportunity to continue working with AECOM and the City of Lynchburg on the Midtown Connector.

HDLA is currently working under Contract Supplement #1, which was approved in June 2014 and not to exceed \$5,471.00.

Due to additional project delays, we understand the construction period has been extended by approximately twelve (12) months. We will exceed Contract Supplement #1 within six (6) months and will require an additional supplement to extend our services to the new anticipated project completion date at the end of 2015.

We, herewith, offer the following Scope of Services and Fees for additional construction administration services, to get us through the end of the 2015 construction season:

SCOPE: Harvey Design Land Architects (HDLA) will work closely with AECOM and the City of Lynchburg to conduct inspections, attend monthly progress meetings and be available for any questions/clarifications through the new project construction period. We anticipate our Construction Administration Services to be utilized in the later stages of each Phase. Our Scope of Services and Fees are described below:

INCLUDED SERVICES

- Answer RFI's
- Progress Meetings
- Reviews Submittals / Approvals
- Plan Clarifications
- Plan Revisions
- Site Inspections
- Documentation and follow up for all of the above items
- Punch List and follow up
- Project closeout

FEES: For the additional work specified above, we would charge on an hourly basis and bill monthly. Our fee for this work has been calculated on the included "man hours and cost plus net fee summary", reduced to the maximum amount allowed as shown below. This proposal requires an additional supplement to complete the project and HDLA will stop work once we have reached the Contract Supplement #2 amount of \$11,757.36.

- ORIGINAL CONTRACT - \$28,951.77 (depleted 2014)
- CONTRACT SUPPLEMENT #1 - \$5,471.00 (active, approved June 2014)
- **CONTRACT SUPPLEMENT #2 - \$11,757.36 (this proposal)**

I hope I have covered all of the elements needed. If you have any questions, please let me know.

Thank you,



Proctor S. Harvey, CLA, ASLA

**COST PLUS NET FEE CONTRACT
COMPUTATION OF FEE - HDLA (SUB-CONSULTANT)
CONTRACT SUPPLEMENT #2**

Distribution of Manhours - Lynchburg Midtown Connector Enhancement Project

A. Direct Labor, Estimated Est. Man-hrs x Current Hourly Rates	\$ 3,454.00
B. Escalation Approved Escalation Rate (4.50%) x A	4.50% \$ 155.43
C. Total Direct Labor (A + B)	\$ 3,609.43
D. Overhead (Payroll Burden + Overhead, G&A) Audited Overhead Rate (200%) x C	\$ 7,218.86
E. Total Direct Labor Plus Overhead (C + D)	\$ 10,828.29
F. Direct Labor Plus Overhead Contingency Contingency Rate (5%) x E	0% \$ -
G. Negotiated Net Fee (10%) Based on (E + F) with Overhead Limit of 156%	\$ 924.01
H. Cost of Facilities Capital Audited Rate (0.14%) x C	\$ 5.05
I. Nonsalary Direct Cost, Estimated	\$ -
J. Nonsalary Contingency Contingency Rate (5%) x (H + I)	
K. Sub-consultant Cost, Estimated	\$ -
L. Maximum Total Compensation Payable (E + F + G + H + I + J + K)	\$ 11,757.36
M. Amount Not To Exceed Without Written VDOT Approval (L - F - J)	\$ 11,757.36

SUB-Consultant - HDLA
**Distribution of Manhours - Lynchburg Midtown Connector Enhancement Project
 Contract Supplement #2**

COMPUTATION OF DIRECT TECHNICAL SALARIES

	HOURS	RATE	AMOUNT
SENIOR LA	22	\$ 40.00	\$ 880.00
PRINCIPAL LA	38	\$ 34.00	\$ 1,292.00
SR. DRAFTSMAN	54	\$ 22.00	\$ 1,188.00
CADD TECHNICIAN	0	\$ 16.00	\$ -
ADMINISTRATIVE	4	\$ 14.00	\$ 56.00
TOTAL =			\$ 3,416.00

COMPUTATION OF REIMBURSABLE COSTS

	UNIT	UNIT COST	TOTAL COST
PRINTING - 8.5X11 PAGES	0	\$ 0.10	\$ -
PRINTING - PUBLIC MEETING INFORMATION	0	\$ 2.00	\$ -
DRAFT REVIEW SHEETS	0	\$ 3.00	\$ -
LARGE DISPLAYS - PUBLIC MEETING	0	\$ 100.00	\$ -
DRAFT / REVIEW PLAN SETS	0	\$ 100.00	\$ -
FINAL PLAN SETS FOR BIDDING	0	\$ 100.00	\$ -
FINAL PLAN SETS FOR CONSTRUCTION	0	\$ 100.00	\$ -
TRAVEL MILES	0	\$ 0.55	\$ -
MAIL	0	\$ 12.00	\$ -
TOTAL REIMBURSABLE COST =			\$ -

Sub-Consultant HDLA
Distribution of Manhours - Lynchburg Midtown Connector Enhancement Project
Contract Supplement #2

Distribution of Manhours and Total

This form is required for the Prime and each Sub-Consultant

TASK	SUB- ACTIVITY	SENIOR LA PROCTOR HARVEY		PRINCIPAL LA CLARA ALEMAN		SR. DRAFTSMAN NATHAN HARBIN		CADD TECHNICIAN NATHAN HARBIN		ADMINISTRATIVE SAMMIE DANCE		TOTAL	
		HOURS	DOLLARS	HOURS	DOLLARS	HOURS	DOLLARS	HOURS	DOLLARS	HOURS	DOLLARS	HOURS	DOLLARS
PE LOC. CORR. STUDIES	190												
SCOPE PROJ./PFR	220												
DEV. AERIAL PHOTO/ MAPPING	223												
PREP./HOLD LOCATION HEARING	260												
ADOPT LOCATION CORRIDOR	270												
CONDUCT SURVEY	313												
PLAN DESIGN/INSPECTION	360	22	\$ 40.00	38	\$ 35.00	54	\$ 22.00	0	\$ 16.00	4	\$ 14.00	118	\$ 3,454.00
HYDRAULIC PLAN DES./FI	362												
RIVER MECHAN. PROJ. STUDIES	372												
MAJOR STRUCT./BRIDGE SURV.	373												
MINOR STRUCT. DATA	400												
HYDRAULIC PLAN DES./RW	432												
HYDRO/HYDRA. ANALY.	462												
APPROVE WILLINGNESS	470												
CONDUCT L&D PUBLIC HEARING	480												
HYDRAULIC CONSTR. REVIEW	512												
COMPLETE ROADWAY PLANS	650												
	Per Cent												
TOTALS		22		38		54		0		4		118	\$ 3,454.00

FEE PROPOSAL

FOR

**MIDTOWN CONNECTOR, PHASE II PROJECT
UPC 8759, PROJECT NO. U000-118-V09, PE101,
RW201, RW202 & C501
Supplemental CA and Inspection Services**

LYNCHBURG, VIRGINIA

PREPARED FOR:

AECOM TECHNICAL SERVICES, INC.

PREPARED BY:

**MBP, P.C.
711 D Fifth Street, NE
ROANOKE, VIRGINIA 24016**



December 3, 2014

AECOM

1315 Franklin Road
Roanoke, Virginia 24016

Attention: Mr. J. Scott Hodge, PE, Roanoke Operations Manager

Reference: **Professional Services for Construction Quality Assurance
Project: Lynchburg Midtown Connector
MBP Proposal #P11183.022**

In recognition of the increased duration of subject project, as well as the requested increase in the level of involvement from MBP in addressing both daily project issues and contract compliance issues potentially impacting the project's overall budget and schedule, MBP is submitting the following request to extend the budget of our original proposal dated May 4, 2011, and one subsequent amendment dated June 25, 2014. This proposed addendum (Proposal) is for MBP to continue to provide construction quality assurance management (QAM) services for the Lynchburg Midtown Connector project (Project) throughout the course of the construction of the project, and through final contract closeout if requested.

SCOPE OF PROJECT -

**LYNCHBURG MIDTOWN CONNECTOR, PHASE II (Construction Phase)
VDOT PROJECT NO. U000-118-V09, PE101, RW201, RW202 & C501; UPC 8759
CITY OF LYNCHBURG, VIRGINIA**

The Lynchburg Midtown Connector is a First Cities Initiative locally administered project by the City of Lynchburg (City) with Virginia Department of Transportation (VDOT) and Federal Highway Administration (FHWA) oversight. The work is being performed pursuant to VDOT's Local Assistance Program Guidelines.

ORIGINAL SCOPE OF SERVICES

As Senior Project Manager, provide Quality Assurance Management (QAM) services for this Project, for an estimated 32 calendar months, including one month prior to the anticipated notice to proceed construction date and a month after completion of the City's final acceptance inspection:

- Attend initial Project Showing for advertisement (1 meeting)
- Attend Project Preconstruction Meeting (1 meeting)
- Attend monthly Progress Meetings and report on previous month's construction activities noting any quality issues, their status and means of resolution as appropriate (estimated 30 monthly meetings).
- Provide via email a written monthly status report of Quality Control (QC) inspection activities including both on and off site test results detailing any outstanding issues that could impact final quality and/or payment to the contractor.
- Serve as a resource to the City of Lynchburg and AECOM to assist in addressing inquiries from the Contractor, Utility Owners, VDOT and/or FHWA.
- Conduct a weekly site visit to monitor QC inspection and testing activities performed by NXL Construction Services, Inc. and review corresponding project documentation. Provide AECOM (Scott Hodge, PE) a weekly status report via phone and/or email as required.

In addition to the forgoing, and based upon conversations between Dale Grigg, PE and Scott Hodge, PE, MBP proposes the following extension to our original scope of services and budget:

ADDITIONAL SCOPE OF SERVICES

Extension of QAM Services

Extend the period of performance for Senior Project Manager (QAM) services, averaging 20 hours per month, commencing on or about April 1, 2015, and extending through December 31, 2015. This extension is in addition to and supersedes the City of Lynchburg's previous instructions to limit the overall project CEI budget extension to a maximum of 25% of its original contract value, with MBP's extension being limited to \$18,839.00 as submitted in our June 25, 2014 amendment.

Estimated Budget

MBP proposes to perform the services described herein on a time and materials basis with a **not to exceed (NTE) value** derived as follows:

**ORIGINAL BUDGET ESTIMATE
 Quality Assurance Manager (QAM)**

PERSONNEL/SERVICE	Avg. Hours Per Month	Months	Billable Rate	Budgeted Cost
Senior Project Manager	20	32	\$163.15/hr.	\$104,416.00
DIRECT EXPENSES	Avg. Miles Per Month	Months	Billable Rate	Budgeted Cost
Project Mileage	230	32	\$0.51/mi.	\$3753.60

Previously Authorized Budget \$108,169.60

**ADDITIONAL BUDGET ESTIMATE DATED JUNE 25, 2014
 Quality Assurance Manager (QAM) and
 Partial Audit of the Project Records**

PERSONNEL/SERVICE	Avg. Hours Per Month	Months	Billable Rate	Budgeted Cost
Senior Project Manager	20	3.16	\$163.15/hr.	\$10,325.40
PERSONNEL/SERVICE	Hours Per Task	Number of Task	Billable Rate	Budgeted Cost
Records Reviewer	80	1	\$106.42/hr.	\$8,513.60

NTE TOTAL \$127,008.60
 Less Previously Authorized Budget \$108,169.60
Estimated Budget Increase \$ 18,839.00

**PROPOSED ADDITIONAL BUDGET ESTIMATE
 Quality Assurance Manager (QAM)**

PERSONNEL/SERVICE	Avg. Hours Per Month	Months	Billable Rate	Budgeted Cost
Senior Project Manager	20	9	\$163.15/hr.	\$29,367.00

NTE TOTAL	\$156,375.60
Less Previously Authorized Extended Budget	<u>\$127,008.60</u>
Estimated Additional Budget Increase	\$ 29,367.00

TERMS and CONDITIONS

The Terms and Conditions for this assignment will be in accordance with the executed Subcontract Agreement dated February 2, 2012 between AECOM Technical Services, Inc. (AECOM) and McDonough Boyard Peck, Inc. (MBP).

We look forward to the opportunity to continue our working relationship with AECOM and the City of Lynchburg. If you have any questions on any of the above items or wish to change the scope in any way, please contact me at our Roanoke Office (540-985-9453).

Sincerely,



Dale H. Grigg, PE
Branch Manager

cc: Christopher Payne, PE, CCM, Regional Manager
Proposal File

FEE PROPOSAL

FOR

**MIDTOWN CONNECTOR, PHASE II PROJECT
UPC 8759, PROJECT NO. U000-118-V09, PE101,
RW201, RW202 & C501
Supplemental CA and Inspection Services**

LYNCHBURG, VIRGINIA

PREPARED FOR:

AECOM TECHNICAL SERVICES, INC.

PREPARED BY:

**NXL, INC.
114 EAST CARY STREET, SUITE 200
RICHMOND, VIRGINIA 23219-3735**



www.nxl.com

nxl | Engineers, Surveyors
Construction Managers

December 1, 2014

Mr. Scott Hodge
AECOM Transportation
1315 Franklin Road
Roanoke, VA 24016

Re: Lynchburg Midtown Connector
NXL Construction Services Quote for Inspection Services

Dear Mr. Hodge:

We are providing herein our proposal for Inspection Services on the subject project. This proposal is to cover the additional cost needed on the project. Our proposal and assumptions are as follows:

- This proposal covers services from January through December 2015.
- Inspection will continue to follow the VDOT LAP Manual.
- Staffing was based on the current anticipated schedule. It does not take into consideration acceleration of schedule beyond what is shown in the latest update.
- Staffing hours were based on the following:
CM – 5 day work week at 45 hours per week
Inspectors – 5 day work week at 50 hours per week
Scheduler – 8-12 hours per month
- Our Proposal for Inspection Services is \$1,204,067.

Again this proposal is based on information known at this time. If events occur on the project in which NXL deems outside of the scope of work included in this proposal, we will notify you immediately. It is NXL's intentions to monitor the staffing on the project and as work operations decrease as the project approaches completion, we will decrease the staff accordingly.

I have included a breakdown of costs as an attachment for your information.

We appreciate the opportunity to continue to work with you on this project. Feel free to contact me if you have any questions or comments.

Michael W. Saunders, PE
Director of Construction Management Division
NXL Construction Services, Inc.

headquarters
114 east cary st / suite 200
richmond va 23219
804 644 4600

4515 daly drive / suite h
chantilly va 20151
703 961 8127

716 j clyde morris blvd / suite a
newport news va 23601
757 596 4005



NXL Construction Services, Inc
Lynchburg Midtown Connector
Inspection Breakdown for Services
Prepared for: AECOM
By: M Saunders, P.E.
Date: December 2014

Labor Detail

Staff				
	Total Hours	Total Labor	Total Hours	Total Labor
CM	0	\$ -	2,313	\$ 267,450
Senior Inspectors	0	\$ -	5,140	\$ 605,774
Regular Inspectors	0	\$ -	3,154	\$ 207,098
Scheduler	0	\$ -	132	\$ 13,168
Yearly Totals		\$ -		\$ 1,093,490

Grand Total Labor \$ **1,093,490**

Expense Detail

	2015
Vehicle Expenses	\$ 68,120
Phones, Computers, Printers, Misc	\$ 37,207
QA Lab Test	\$ 5,250
Totals	\$ 110,577

Grand Total Expenses \$ **110,577**

Grand Total Labor, Expense, Lab \$ **1,204,067**

LYNCHBURG CITY COUNCIL

Agenda Item Summary

MEETING DATE: **January 13, 2015 (PDC)**

AGENDA ITEM NO.:

CONSENT: REGULAR: **X** WORK SESSION:

CLOSED SESSION:
(Confidential)

ACTION: **X** INFORMATION:

ITEM TITLE: **Region 2000 Long Range Transportation Plan (LRTP) Update**

RECOMMENDATION:

Approve ranking of transportation projects as recommended by staff for consideration for inclusion in the constrained portion of the LRTP and eventually in the Virginia Department of Transportation (VDOT) Six Year Plan.

SUMMARY:

Proposed ranking of projects is attached for discussion. Staff is present to discuss the topic. As this is the first year of House Bill 2 (HB2) implementation the process is not as clear as in the past. Region 2000 is preparing the update for the LRTP and requested input from the Cities and Counties regarding their priorities. The projects recommended will likely be subjected to a ranking process (not yet defined) as required by HB2 prior to inclusion in the VDOT Six Year Plan.

Region 2000 has not yet been given a revenue projection which they will need to construct the constrained plan. We expect the constrained plan to consist of projects totaling approximately \$90,000,000.00 over the life of the projection (20 years). If that is the case, it would allow for inclusion of at most the top four priorities on the proposed list into the constrained plan.

PRIOR ACTION(S):

Concurrence with existing VDOT six year plan.

FISCAL IMPACT:

None – these projects would be candidates for VDOT funding.

CONTACT(S):

Don DeBerry – City Traffic Engineer – 455-3935
Lee Newland – City Engineer – 455-3947
Gaynelle Hart – Public Works Director – 455-4406

ATTACHMENT(S):

REVIEWED BY:

City of Lynchburg proposed projects by document

City proposed constrained plan								
Map ID	Jurisdiction	Project Location and Description	Description/Notes	Project Length (mi.)	Est. Cost 2014 \$			
under construction	Lynchburg	MidTown Connector - Rte 29 Bus. to Int. Memorial/5th.	Reconstruct 2 lane curb and gutter with flush medium		\$ 15,000,000.00			
VDOT Design Build #1	Lynchburg	Greenview Drive - Hermitage Road to .22 MS Leesville Road	Widen to 4 lanes		\$ 15,000,000.00			
VDOT Design Build #2	Lynchburg	New interchange extending Odd Fellows Rd over Rt 29/460	Construct Interchange, plus road to Mayflower and design balance of connector		\$ 35,000,000.00			
1	Lynchburg	Rt 501- Lynchburg Expressway	Existing Rt 501 S of 221 to Northwest Expressway (One Way Pair)		\$ 30,000,000.00			
2	Lynchburg	Odd Fellows Rd project balance	Construct roundabouts, bridge replacement and balance of connector		\$ 15,000,000.00			
3	Lynchburg	50+ blocks of waterline replacement and streetscape improvements downtown	Downtown		\$ 50,000,000.00			
4	Lynchburg	Rt 501- Candler Mountain Rd	Rt 460W to Lynchburg Expressway		\$ 35,000,000.00			
5	Lynchburg	Rt 460 / 29 (Richmond Highway) -- From Rt 501 (Campbell Avenue) to Rt 29 (Monacan Parkway)	Safety / Traffic Operations / TSM (Primary)		\$ 15,000,000.00			
6	Lynchburg	Lynchburg Expressway	Candler Mountain Rd Interchange	STARS Concept C	\$ 16,220,000.00			
7	Lynchburg	Lynchburg Expressway	James St/Stadium Rd Interchange	STARS Concept G + H	\$ 12,200,000.00			
8	Lynchburg	Lynchburg Expressway	Odd Fellow Rd Interchange	STARS Concept E + F	\$ 7,320,000.00			
9	Lynchburg	Lynchburg Expressway	Miller St/Robins Rd Interchange	STARS Concept K	\$ 200,000.00			
10	Lynchburg	Lynchburg Expressway	Main St/Church St Interchange	STARS Concept L	\$ 2,700,000.00			
11	Lynchburg	Lynchburg Expressway	Kemper St/Campbell Ave Interchange	STARS Concept I + J	\$ 14,900,000.00			
VDOT project	MPO-Wide	Lynchburg District Design Build Culvert Rehabilitation	ARRA Funding for Bridge Culvert Rehabilitation					

VDOT project	MPO-Wide	Safety/ Traffic Operations/Transportation System Management (CN)						
VDOT project	MPO-Wide	Rail Crossing Safety (CN)						
VDOT project	MPO-Wide	Bridge Rehabilitation/Replacement/Reconstruction (CN)	Projects such as: bridge or drainage structure rehabilitation, reconstruction or replacement on/adjacent to alignment					
VDOT project	MPO-Wide	Transportation Enhancements/Byway/Bike & Pedestrian/Other Non-traditional Transportation Projects (CN)						
VDOT project	MPO-Wide	Federal Lands Highway (CN)	Projects funded and/or administrated by Federal Lands Highway Division					
VDOT project	MPO-Wide	Recreational Trails (DCR)	Projects funded/advanced through VA Dpt of Conservation and Recreation recreational trails program					
VDOT project	MPO-Wide	General System Maintenance - Preventative Maintenance and System Preservation, Traffic & Safety Operations, and Preventative Maintenance for Bridges	Preventative Maintenance, System Preservation, Traffic & Safety Ops, Preventative Maintenance for Bridges					
City proposed Vision plan								
Map ID	Jurisdiction	Project Location and Description	Description/Notes	Project Length (mi.)	Est. Cost 2014 \$			
revenue share current proposed project	Lynchburg	Wards Ferry Rd from Timberlake to past Adams	Widen and add turn lanes transition past Adams		\$ 2,000,000.00			
cdbg & revenue share proposed project	Lynchburg	5th St from Jackson to Taylor St.	Waterline and streetscape improvements		\$ 2,000,000.00			
vision list	Lynchburg	Route 221/Lakeside Dr	East of Lynchburg Expressway widen to four lanes					
vision list	Lynchburg	5th St - Taylor to RR Bridge	reconstruct road and ped, add streetscape					
vision list	Lynchburg	Campbell Ave from Edmunds to Florida	Implement Corridor Plan					
vision list	Lynchburg	Wards Ferry Rd at Harvard St.	Construct roundabout		\$ 2,000,000.00			
vision list	Lynchburg	Wards Rd	Bike Ped Improvements Phase III		\$ 800,000.00			
vision list	Lynchburg	Wards Ferry Rd	Bike Ped Improvements		\$ 1,900,000.00			
vision list	Lynchburg	Wards Ferry Rd at Atlanta	Add Turn Lanes		\$ 500,000.00			

vision list	Lynchburg	Wards Ferry Rd at Simons Run	Pedestrian Accomodations		\$ 100,000.00			
vision list	Lynchburg	Rt 670 (Old Candler Mountain Road) - Mayflower Drive to Rt 460	Widen to 4 lanes					
vision list	Lynchburg	US 501 - Lynchburg Expressway (US 221 - Lakeside Dr to Wiggington Rd Rt 620)	Widen to 4 lanes					
vision list	Lynchburg	Old Forest Rd (US-501 to Link Rd)	Access management improvements					
vision list	Lynchburg	Graves Mill Rd Rt 1425 (US 221 - Forest Rd to Lynchburg Expressway)	Revise interchange to DDI - Access management improvements					
vision list	Lynchburg	Old Graves Mill Rd (US 460 - Timberlake Rd to Graves Mill Rd Rt 1425)	Access management and safety improvements					
vision list	Lynchburg	US 460 - Timberlake Dr (Old Graves Mill Rd to Lynchburg Expressway)	TSM, access management improvements, and potential widening					
vision list	Lynchburg	Leesville Rd Rt 682 (Greenview Dr Rt 678 to US 460 - Timberlake Rd)	Widen to 3 lanes					
vision list	Lynchburg	Rt 460/29 (Richmond Hwy) -- From Rt 501 (Campbell Ave) to Rt 29 (Monacan Pkwy)	Improve to 6 lane limited access rdway					
vision list	Lynchburg	Odd Fellows Rd connection to Campbell Ave.	Construct New Roadway		\$ 10,000,000.00			
vision list	Lynchburg	John Capron Rd	Construct new roadway to Oddfellows		\$ 1,000,000.00			
vision list	Lynchburg	Tyreanna	Roadway Improvement per Comp Plan		\$ 15,000,000.00			
vision list	Lynchburg	Buchanan St	Extend Road per Comp Plan		\$ 1,000,000.00			
vision list	Lynchburg	McConville Rd	Realign Road per Comp Plan		\$ 1,500,000.00			
vision list	Lynchburg	Atherholt Rd	Extend Road per Comp Plan		\$ 1,500,000.00			
vision list	Lynchburg	Stonemill Dr	Extend Road per Comp Plan		\$ 8,000,000.00			
vision list	Lynchburg	Candler Mountain Rd	Sidewalks to Snowflex		\$ 500,000.00			

vision list	Lynchburg	Memorial Ave - RR Bridge to Langhorne	reconstruct road and ped, add streetscape					
vision list	Lynchburg	Rt 501 (Lynchburg Expressway)- Rt 221 (Lakeside Drive) to Old Graves Mill Road	English SPUI					

LYNCHBURG CITY COUNCIL

Agenda Item Summary

MEETING DATE: **January 13, 2015 (PDC)**

AGENDA ITEM NO.:

CONSENT: REGULAR: **X** WORK SESSION:

CLOSED SESSION:
(Confidential)

ACTION: **X** INFORMATION:

ITEM TITLE: **Community Market Parking Deck Update**

RECOMMENDATION:

Review report with staff.

SUMMARY:

The Community Market Parking Deck was constructed over 80 years ago in 1933 for much lighter trucks and cars of that time period. The deck is only 3-1/2" thick and has a weight limit of 3 tons. A suburban weighs approximately 5800 pounds or just 200 from the weight limit and a pick-up truck with a diesel engine weighs in at 6600 pounds. With the corroding reinforcing steel and spawling concrete, the deck has reached the end of its useful life.

The report states that repairing the deck is not economically feasible and gives two options of removing the deck and filling in the area to pave over it or replacing it with another elevated deck. Both options are in the \$2,000,000 range to include engineering, construction inspection and contingencies.

The deck is vitally important to the functioning of the Community Market so a temporary solution has been proposed while the ultimate solution is being designed.

PRIOR ACTION(S):

Minor repairs 2002, 2010.

FISCAL IMPACT:

Immediate modifications and temporary repairs \$50,000.
Future CIP Project \$2,000,000.

CONTACT(S):

Lee Newland – City Engineer – 455-3947
Kay Frazier – Parks & Recreation Director – 455-5868
Gaynelle Hart – Public Works Director – 455-4406

ATTACHMENT(S):

Community Market Parking Deck Engineering Report

REVIEWED BY:

Schwartz & Associates, Inc. Consulting Engineers

Heritage Business Center
7331 Timberlake Road, Suite 305
Lynchburg, Virginia 24502
(434) 237-6584

MEMBER OF:
ACEC
ACI
AISC
APWA
AREA
ASCE
NSPE

November 19, 2014

Mr. Joe Smith
City of Lynchburg
1700 Memorial Avenue
Lynchburg, VA 24501

Re: Parking Deck Condition Reports
City of Lynchburg, VA
Our Commission No.: 14039

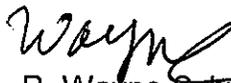
Dear Joe:

As requested, we are attaching a CD of the condition report for the Community Market Parking Deck

If you have any questions, please contact us. Thank you.

Yours truly,

SCHWARTZ & ASSOCIATES, INC.



R. Wayne Schwartz, P.E.

RWS:res

Attachment

Community Market Parking Deck



Schwartz & Associates, Inc.
Consulting Engineers

**Parking Deck Evaluation Report for
Community Market Parking Deck
1201 Main Street**

Lynchburg, VA

November 17, 2014



Prepared for



Submitted by
Schwartz & Associates, Inc.
Consulting Engineers

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2.0 Structure Evaluation

2.1. Structure Investigation

On September 7th, 2014, Schwartz & Associates, Inc., Consulting Engineers conducted a Parking Deck Evaluation on Community Market Parking Deck at the 1201 Main Street located in the City of Lynchburg, Virginia. The structure is owned and maintained by the City of Lynchburg. The study area of the parking deck has one level and it is 64'-4 1/2" by approximately 159'-10". The study area covers Bays A₁, B, C, D and E and Panels 1-10 as shown on attached sketch in section 2.2. Included in the study area are the deck, supporting beams, and supporting columns which are constructed within the limits of the above described area. The parking deck has a maximum vehicle weight limit of 3 tons and it is posted at the entrance, see photograph #35.

The entire structure was visually inspected and sounded with a hammer and chain drag and the following deficiencies were identified:

Deck:

Generally, the deck was in poor condition. Our greatest concern for this structure is the concrete deck is only 3 1/2" thick with insufficient reinforcing steel and it is severely deteriorated.

The entire top side of the deck was checked for delaminations using a chain drag and approximately 1,370 SF of spalled or delaminated concrete were identified. In conjunction with checking for delaminations, a close visual inspection of the deck was performed in an effort to locate any discrepancies that may lead to future complications. There were approximately 1,170 LF of cracks that were discovered. On the top side of the deck, about 13% of the surface area was found to be spalled or delaminated.

The bottom of the deck was visually inspected for defects and there were approximately 2,270 SF of spalled or delaminated concrete identified. In many of these areas, the deck reinforcing steel was exposed exhibiting section loss due to corrosion. In addition, large areas of the deck underside showed evidence of extensive moisture seepage and there were a number of areas where water was found to be dripping off the bottom side of the deck. Approximately 80% of the entire underside of the deck shows signs of heavy moisture seepage. On the bottom side of the deck, about 22% of the surface area was found to be spalled or delaminated. Due to the overall poor conditions; including heavy moisture seepage on the underside of the deck and large areas of spalled or delaminated concrete on the top and bottom sides of the deck, corrosion of the reinforcing steel extends well beyond the spalled or delaminated areas. This condition likely exists in over 50% of the surface area.

Beams and Stringers:

Generally the beams and stringers were in fair to poor condition. Panels 1-9 were constructed with concrete beams and panel 10 was constructed with steel stringers. There were a number of the concrete beams that were showing evidence of moisture seepage and we estimate 945 SF of the beam surfaces were found to be spalled or delaminated. In some of these areas, the reinforcing steel was corroded and exhibiting section loss.

There was one beam in Bay D between Columns 9 and 10 that was severely deteriorated. The deteriorated concrete was removed in this area and the beam was encased in new concrete in 2011, see photograph #27.

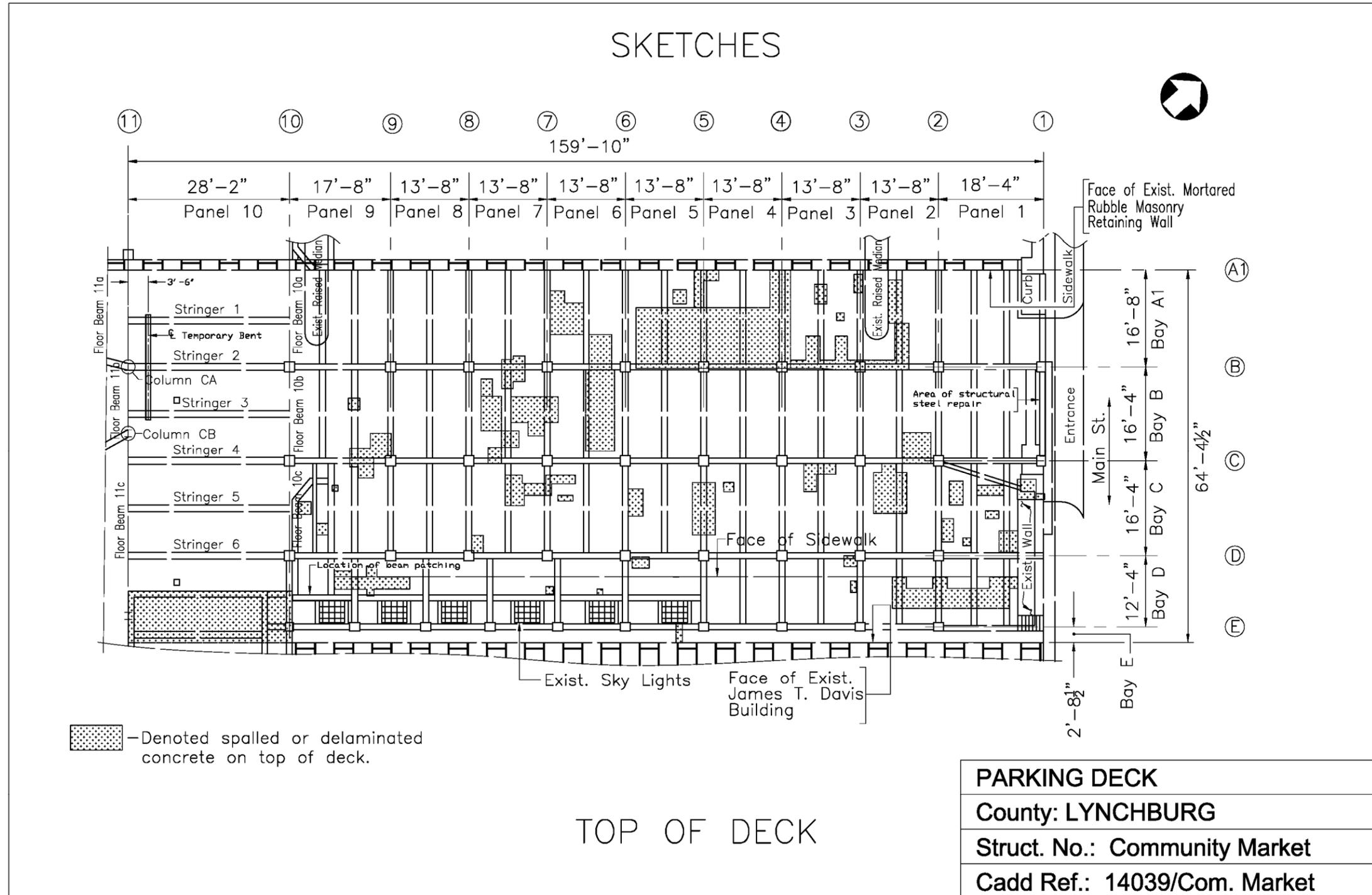
There were some areas where the steel beams were severely deteriorated and weakened as a result of section loss. Floor beams 11a and 11b had as much as 80% section loss in bottom flange and lower web. A temporary timber bent was installed for additional support under stringers 1 – 3 in panel 10 in 2011, see photograph #16. The timber seat blocks do not have bearing on top of the timber cap and are split, see photographs #17 - #20.

The beam under the Main Street entrance, Bay B was also severely deteriorated. The existing temporary bent was replaced in 2011 to provide additional support in this area, see photograph #22.

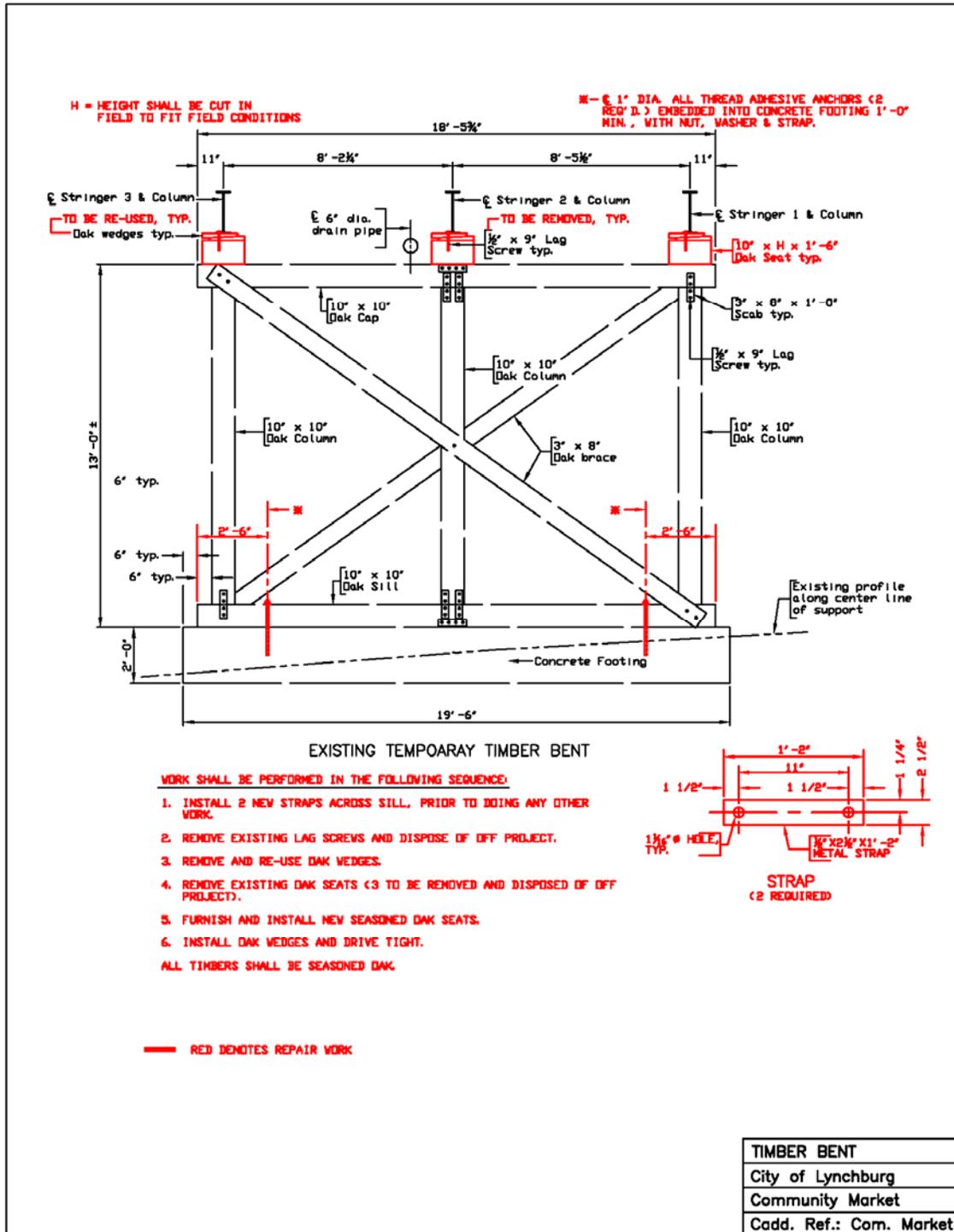
Columns:

Generally, the condition of the columns was good. Approximately 66 square feet of spalled or delaminated concrete of the sides of the columns was found.

2.2. Structure Sketches



2.3. Timber Bent Repair Sketch



3.0 Recommendations

3.1. Recommendations

After reviewing the information obtained in the Structure Evaluation, we have developed two (2) alternatives for the Community Market Parking Deck. Schwartz & Associates, Inc. does not recommend repair of this structure as an option. The concrete deck and its supporting elements are so severely deteriorated, making repairs are not economically feasible. In addition to its condition, the parking deck does not have the ability to support the loads of delivery vehicles to the adjacent businesses because of the original geometric and structural design.

There are numerous businesses adjacent to the study area of the Community Market Parking Deck that rely heavily on that area for customer parking. These businesses may suffer the economic impact of construction on the parking deck. The Preliminary Cost of Repairs does not include the economic damages that these businesses may incur during construction.

Immediate Repair to Temporary Timber Bent is for the furnish and installing metal straps across timber sill, removal of existing lag screws, replacing three (3) existing seat blocks with new ones and reinstalling oak wedges and driving tight. This work should be done within the next four (4) months, see Timber Bent Sketch 2.3 for details.

The details of the two (2) recommended alternatives are listed below.

Alternative A is for the removal of the structure, placing fill material, and placing asphalt concrete paving. The details are as follows:

1. Dismantle and remove existing structure.
2. Install retaining wall.
3. Renovate electrical items
4. Place fill material in void area.
5. Install drainage items.
6. Place Aggregate base material.
7. Place asphalt concrete paving.

Alternative B is for the removal and replacement of the structure with a cast in place concrete parking structure and the details are as follows:

1. Dismantle and remove existing structure.

Estimated Cost of Temporary Timber Bent Repair

2. Renovate electrical items.
3. Install drainage items.
4. Form and place concrete deck and beams.

Alternative C is to perform Type C patching of the concrete deck.

3.2. Estimated Cost of Temporary Timber Bent Repair

Temporary Timber Bent Repair				
DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL COST
Mobilization	1	LS	\$ 1,000	\$ 1,000
Timber Bent Repair	1	LS	\$ 6,000	\$ 6,000
Total				\$ 7,000

Community Market Parking Deck
Preliminary Estimated Cost of Repairs

3.3. Preliminary Estimated Cost of Repairs

Alternative A				
Remove Structure and Backfill				
DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL COST
Mobilization	1	LS	\$ 115,000	\$ 115,000
Dismantle & Remove Exist. Str.	1	LS	\$ 131,250	\$ 131,250
Borrow Excavation	7,605	CY	\$ 42	\$ 319,410
Aggr. Base Material Type I No. 21A or 21B	252	TON	\$ 63	\$ 15,876
Asphalt Concrete Type BM-25.0	503	TON	\$ 105	\$ 52,815
Asphalt Concrete Type SM-9.5A	128	TON	\$ 168	\$ 21,504
Concrete Class A3	524	CY	\$ 860	\$ 450,640
Reinforcing Steel	47,200	LB	\$ 2.10	\$ 99,120
Structure Excavation	380	CY	\$ 80	\$ 30,400
Drainage	1	LS	\$ 46,200	\$ 46,200
Electrical	1	LS	\$ 26,250	\$ 26,250
Subtotal				\$ 1,308,465

ALTERNATIVE A TOTAL= \$ 1,308,465
ENGINEERING & CONTINGENCY @ 30%= \$ 392,540
ALTERNATE A GRAND TOTAL= \$ 1,701,005

Community Market Parking Deck
 Preliminary Estimated Cost of Repairs

Alternative B and Replace Structure				Remove
DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL COST
Mobilization	1	LS	\$ 136,500	\$ 136,500
Dismantle & Remove Exist. Str.	1	LS	\$ 131,250	\$ 131,250
Concrete Class A4	528.6	CY	\$ 1,470	\$ 777,042
Corrosion Resistant Reinforcing Steel	97,791	LB	\$ 2.10	\$ 205,361.10
Structural Steel	39,440	LB	\$ 2.10	\$ 82,824
Structure Excavation	280	CY	\$ 80	\$ 22,400
Drainage	1	LS	\$ 29,757	\$ 29,757
Electrical	1	LS	\$ 25,200	\$ 25,200
Subtotal				\$ 1,410,334.10

ALTERNATIVE B TOTAL= \$1,410,334.10
 ENGINEERING & CONTINGENCY @ 30%= \$423,100.90
 ALTERNATE B GRAND TOTAL= \$1,833,435.00

Community Market Parking Deck
Preliminary Estimated Cost of Repairs

Alternative C Deck Patching				
DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL COST
Mobilization	1	LS	\$ 3,465	\$ 3,465
Type C Patching	153	SY	\$ 400	\$ 61,200
Subtotal				\$ 64,665

ALTERNATIVE C TOTAL= \$64,665
ENGINEERING & CONTINGENCY @ 30%= \$19,400
ALTERNATE C GRAND TOTAL= \$84,065

3.4. Summary of Recommendations

Temporary Timber Bent Repair is for the Immediate Repair of the existing Timber Bent that was installed in 2011. This work should be done within the next four (4) months. The estimated cost is \$7,000.

Three (3) alternatives for Preliminary Estimated Cost of Repairs are presented and they are described as follows:

1. Alternative A is for removal of parking deck and placing backfill. The estimated cost is \$1,701,005.
2. Alternative B is for removal and replacement of parking deck. The estimated cost is \$1,833,435.
3. Alternative C is to perform Type C patching of the concrete deck. The estimated cost is \$84,065.

It is our recommendation that the structure be demolished, the area filled in, and paved over. Included in this recommendation is the construction of a reinforced concrete retaining wall to contain the fill in the area adjacent to the boiler room and along the front of the existing Armory building facing Main Street and along the south side adjacent to the old James T. Davis building. We are assuming in this recommendation that the existing mortar rubble masonry retaining wall which is perpendicular to Main Street and is on the North side of our study area (shown as line A1 on our study area sketch on 2.2, structure Sketches) has fill behind the walls which supports the existing asphalt pavement.

4.0 Photographs



(1) Top of deck – Spalled and delaminated concrete



(2) Top of deck – Spalled and delaminated concrete



(3) Top of deck – Spalled and delaminated concrete



(4) Top of sidewalk – Spalled and delaminated concrete



(5) Entrance – Spalled concrete and broken handrail



(6) Entrance – Clogged trench drain



(7) Bay A1 from panel 10



(8) Bay B from panel 10



(9) Bay C from panel 10



(10) Bay D from panel 9



(11) Bay E from panel 9



(12) Bay A1, Panel 2 – Spalled and delaminated concrete with exposed reinforcing steel



(13) Bay A1 panel 4 – Spalled and delaminated concrete with exposed reinforcing steel



(14) Bay A1 panel 6 – Spalled and delaminated concrete with exposed reinforcing steel



(15) Bay A1 panel 8 – Spalled and delaminated concrete with exposed reinforcing steel



(16) Bay A1 & Bay B panel 10 – Timber bent



(17) Temporary seat block under stringer 1 – timber block not bearing on cap



(18) Temporary seat block under stringer 2 – timber block not bearing on cap



(19) Temporary seat block under stringer 2 – block is split



(20) Temporary seat block under stringer 3 – block is split



(21) Bay B panel 1 – Metal decking and delaminated beam



(22) Bay B panel 1 – Temporary bent at entrance



(23) Bay B, panel 8 - Spalled and delaminated concrete with exposed reinforcing steel



(24) Bay C, panel 2 - Spalled and delaminated concrete with exposed reinforcing steel



(25) Bay C panel 9 – Spalled and delaminated concrete with exposed reinforcing steel



(26) Bay D, panel 6 – Spalled and delaminated concrete with exposed reinforcing steel



(27) Bay D panel 9 – Concrete beam repair



(28) Sky light – Spalled and delaminated concrete with exposed reinforcing steel



(29) Floorbeam 11B – web between column CB &CA has a corrosion hole 4” high full length along bottom



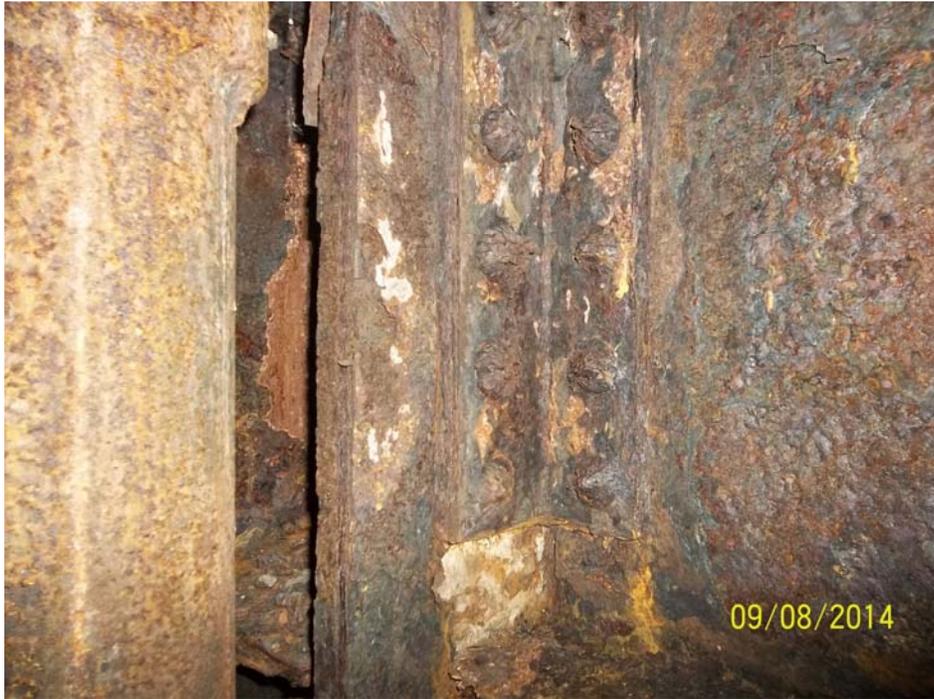
(30) Floorbeam 11A – connected to column CA has $\frac{3}{16}$ ” remaining in bottom flange for 4’ and web has 75% section loss full height between stringer 1 and stringer 2



(31) Floorbeam 11A – clip angle under bottom flange has 90% section loss in top leg



(32) Panel 10 stringer 2 – bolt flange has 50% section loss end 2' at column CA and web has 80% section loss in bottom 3" with 1" dia. Corrosion hole, 1' long for 2' at column CA



(33) Vertical clip angles in Floorbeam 11A at column CA – 50% section loss and rivet heads have 50% to 80% section loss



(34) Floor beam 11C – Has 1/8" section loss on bottom flange, 10' out from column CB, panel 10

Community Market Parking Deck

Photographs



(35) Three (3) ton weight limit sign at Community Market entrance.

LYNCHBURG CITY COUNCIL

Agenda Item Summary

MEETING DATE: **January 13, 2015 (PDC)**

AGENDA ITEM NO.:

CONSENT: REGULAR: **X** WORK SESSION:

CLOSED SESSION:
(Confidential)

ACTION: **X** INFORMATION:

ITEM TITLE: **Odd Fellows Road Update**

RECOMMENDATION:

None.

SUMMARY:

The Odd Fellows Road Design-Build project proposals were opened publically by VDOT on Monday, December 22, 2014 from two bidders. VDOT has determined that the lowest responsive bidder was Wagman, Inc., with a bid of \$29,846,350 for the base bid and alternates 1 & 2. The maximum bid amount given by VDOT was \$31,300,000.

The base bid was Segment A (the interchange), Segment B1 (all improvements except for Landscaping, Sidewalk and Shared use path) and Segment B1 R/W and Utilities (for ultimate build out).

Alternate # 1 includes Landscaping, Sidewalk and Shared use path for Segment B1 and Alternate # 2 includes complete design and final construction plans for Segment B2 including the bridge over N&S Railroad.

This project and Greenview Drive are scheduled for the Commonwealth Transportation Board (CTB) on January 14, 2015.

PRIOR ACTION(S):

None.

FISCAL IMPACT:

Future CIP Project for the Bridge over N&S - \$1,190,000.

CONTACT(S):

Lee Newland – City Engineer – 455-3947
Gaynelle Hart – Public Works Director – 455-4406

ATTACHMENT(S):

None.

REVIEWED BY: