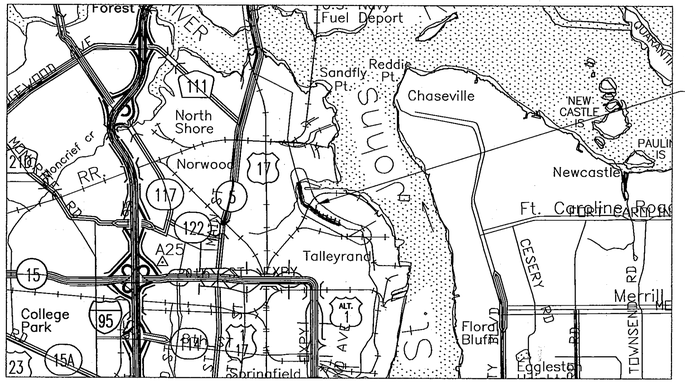
AS-BUILT DRAWINGS
FOR
WIGMORE STREET
BUCKMAN ST to LONGBRANCH CREEK
24" FORCE MAIN REPLACEMENT

JEA PROJ NO.: 1011549



PROJECT LOCATION

100% COMPLETE

JEA sm

Building Community sm

58255
Wigmore St.
Buckman St. to Longbranch Creek

CITY OF JACKSONVILLE NOTES

GENERAL

All construction shall be performed in accordance with the approved plans and comply with all standard city policies and practices. City approval is contingent upon any required state or federal permit approvals such as those from the Department of Environmental Protection or the St. Johns River Water Management District (SJRWMD).

It is the developer's responsibility to obtain required Site Work and Building Permits for the project. Apply for the required permits through:

Building Inspection Division
Edward Ball Building, 2nd Floor
214 N. Hogan St.
Jacksonville, FL 32202
(904) 630-1100
http://www.coj.net/Departments/Planning+and+Development/Building+Inspection/

UTILITY WORK

State Health Department approval must be obtained for any newly constructed water and sewer systems.

Plan approval through Development Services does not include utilities. Proposed water, sewer or electric construction must be approved separately through the respective utility company. In most cases, this will be:

JEA
JEA Tower - 4th Floor
21 W. Church Street
Jacksonville, FL 32202
http://www.jea.com/business/services/downbuild/developers.asp

WORK WITHIN THE RIGHT-OF-WAY

CITY: All work performed within a City of Jacksonville right-of-way or easement requires a Right-of-way Permit. The contractor performing the proposed work must have a current Right-of-way Bond on file with Development Services. Right-of-way Permit applications are processed at:

Development Services Customer Service Counter
Edward Ball Building, 2nd Floor
214 N. Hogan St.
Jacksonville, FL 32202
(904) 255-8572
http://www.coj.net/Departments/Planning+and+Development/Development+Services/Right+of+Way+Permitting.htm

STATE: All work performed within a state right-of-way requires a permit from the Florida Department of Transportation (FDOT). It is the developer's responsibility to obtain required FDOT permits or maintenance-of-traffic approvals for work within FDOT right-of-ways. The FDOT regional office can be contacted at (904) 360-5200 Any changes to the approved plans needed for FDOT approval must be submitted to Development Services as revisions.

RAILROAD: Railroad companies may require special approvals or permits to work within their right-of-ways. It is the developer's responsibility to obtain permission from any railroad right-of-way owner before performing any work within their right-of-way.

STORMWATER

Annual reports in compliance with the SJRWMD stormwater permits are required from the maintenance entity of all stormwater management facilities. Send copies of the reports to:

Engineering and Construction Management
Edward Ball Building, 10th Floor
214 N. Hogan St.
Jacksonville, FL 32202
http://www.coj.net/Departments/Public+Works/Engineering+and+Construction+Management/

The owner of any project one (1) acre or larger is required to provide a Notice of Intent (NOI) in accordance with criteria set forth in the city's NPDES permit within 48 hours of beginning construction. Send NOI and NOI fee to:

Florida Department of Environmental Protection
NPDES Stormwater Notices Center, Mail Station #2510
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 336-8312
http://www.dep.state.fl.us/water/stormwater/npdes/

FIRE MARSHALL

Plan review and approval does not relieve the contractor of complying with all applicable State Fire Codes.

Underground mains and hydrants shall be installed, completed, and in service prior to construction work.

Underground contractor shall submit to the Fire Marshall for approval complete specs for all underground pipe and fittings relating to fire protection PRIOR to installation and inspection. Contractor shall include manufacturer's name and pipe ID along with contractor's state license number.

LANDSCAPE

Site Work Permit is required for this project.

Tree Fund payment is due: ☐ Yes ☐ No _____ inches at $_____ = $_____

Article 25 funds are due: ☐ Yes ☐ No _____ inches at $_____ = $_____

TRAFFIC ENGINEERING

TRAFFIC SIGNS

Metro Name	_____	$100.00	ea. _____
Standard	_____	$100.00	ea. _____
Stop/Yield	_____	$75.00	ea. _____
Design	_____	$45.00	_____
Installation	_____	$45.00	/hr. _____
		TOTAL	_____

Streetlights Required? ☐ Yes ☐ No

NOTE: Traffic sign costs change from time to time. If the costs change after plan approval but prior to payment for installation, the developer must pay the for the signs at the current costs at the time of payment. The above total assumes the subdivision will be platted as one phase. If the development is platted as separate phases, design and installation will be calculated separately for each phase.

No lane closures allowed from 7 a.m. till 9 a.m. and from 4 p.m. till 6 p.m.

PLAN APPROVAL

_____ _____
Date — Development Services Division (Chief)

_____ _____
Date — Review Group (Reviewer)

PLAN APPROVAL IS SUBJECT TO THE FOLLOWING NOTES AND CONDITIONS:

GENERAL PROJECT INFORMATION

GENERAL	
City Development Number	4161.148
Concurrency Application Number	
Property Appraiser Number (RE #)	
Zoning Designation	
PUD Ordinance Number	
Zoning Exception Number	
Adminstrative Deviation Number	
FIRM Community -- Panel	
Flood Zones (Show in Plans)	
Base Flood Elev. (Show in Plans)	
JEA Availability Number	
SUBDIVISION	
PSD Number	
City or Private Inspection	
Public or Private Roads	
Subdivision ("911") Disk Provided?	
NON-SUBDIVISION	
North American Industry Classification System (NAICS)	
Impervious Area (Sq. Ft.)	

IFB BID NO.:	WCF-057-09
BID DUE DATE:	JUNE 23, 2009
TIME OF RECEIPT:	12:00 PM
TIME OF OPENING:	2:00 PM
BID PLACE:	21 W CHURCH ST.
	TOWER LOBBY, SUITE 103
	JACKSONVILLE, FL 32202

AS-BUILT

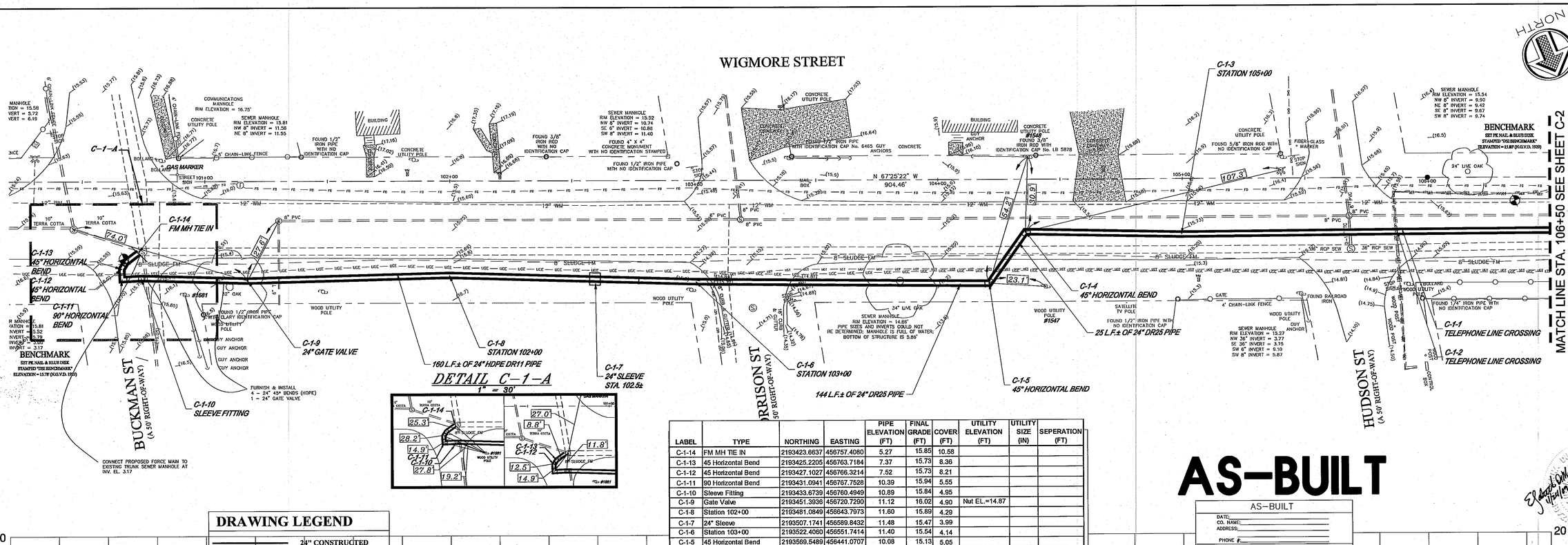
AS-BUILT
DATE: _____
CO. NAME: _____
ADDRESS: _____
PHONE #: _____
IN ACCORDANCE WITH CHAPTERS 471 AND 472 OF FLORIDA STATUTES AND CHAPTER 61G15-23 OF THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS, I HEREBY CERTIFY THAT THE
___PAVEMENT
___CURB & GUTTER
___STORM & DRAINAGE SYSTEM
___LAKE OR POND
___UNDERDRAIN CONNECTIONS
___CHILLED WATER
X WATER MAIN
___RECLAIMED WATER MAIN
X FORCE MAIN
___SANITARY GRAVITY SYSTEM
___LIFT STATION
ARE AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "AS-BUILTS" DRAWINGS.
SIGNATURE: _____
NAME: _____
FLORIDA PROFESSIONAL ENGINEER No. _____

11/24/09

BID DATE: xx-xx-07
PROJ TITLE: WIGMORE STREET
JEA PROJ NO.: 1011549
IFB BID NO.:WCS-xxx-09

G:\07-187\07-187-02\Wigmore Street\5-19-09\As-Built- Final Wigmore Street\WIGMORE COV GEN DET.dwg Current Layout Tab = COVER Tue Nov 24, 2009 - 14:22

REVISED 12-8-2004 JOANNA M. ROMEE



LABEL	TYPE	NORTHING	EASTING	PIPE ELEVATION (FT)	FINAL GRADE (FT)	COVER (FT)	UTILITY ELEVATION (FT)	UTILITY SIZE (IN)	SEPERATION (FT)
C-1-14	FM MH TIE IN	2193423.6637	456757.4080	5.27	15.85	10.58			
C-1-13	45 Horizontal Bend	2193425.2205	456763.7184	7.37	15.73	8.36			
C-1-12	45 Horizontal Bend	2193427.1027	456766.3214	7.52	15.73	8.21			
C-1-11	90 Horizontal Bend	2193431.0941	456767.7528	10.39	15.94	5.55			
C-1-10	Sleeve Fitting	2193433.6739	456760.4949	10.89	15.84	4.95			
C-1-9	Gate Valve	2193451.3936	456720.7290	11.12	16.02	4.90	Nut EL.=14.87		
C-1-8	Station 102+00	2193481.0849	456643.7973	11.60	15.89	4.29			
C-1-7	24" Sleeve	2193507.1741	456589.8432	11.48	15.47	3.99			
C-1-6	Station 103+00	2193522.4060	456551.7414	11.40	15.54	4.14			
C-1-5	45 Horizontal Bend	2193569.5489	456441.0707	10.08	15.13	5.05			
C-1-4	45 Horizontal Bend	2193555.9551	456419.2597	11.94	15.58	3.64			
C-1-3	Station 105+00	2193581.6240	456360.8685	12.08	15.72	3.64			
C-1-2	Telephone Line Crossing	2193614.4878	456279.3873	12.39	15.6	3.21	12.66	6	0
C-1-1	Telephone Line Crossing	2193614.8523	456277.1806	14.43	15.6	1.17	12.99	6	0

AS-BUILT

AS-BUILT

DATE:
CO. NAME:
ADDRESS:
PHONE #:

IN ACCORDANCE WITH CHAPTERS 471 AND 472 OF FLORIDA STATUTES AND CHAPTER 61G15-23 OF THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS, I HEREBY CERTIFY THAT THE

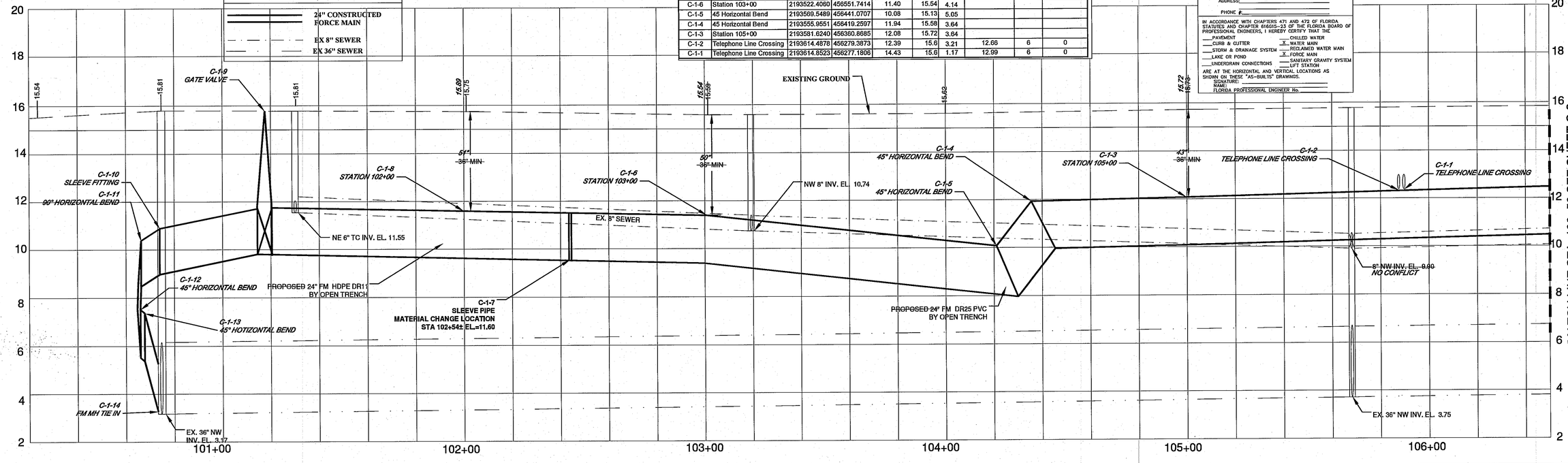
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___CURB & GUTTER
___STORM & DRAINAGE SYSTEM
___LAKE OR POND
___UNDERDRAIN CONNECTIONS
___CHILLED WATER
_X_WATER MAIN
___RECLAIMED WATER MAIN
_X_FORCE MAIN
___SANITARY GRAVITY SYSTEM
___LIFT STATION

ARE AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "AS-BUILTS" DRAWINGS.

SIGNATURE:
NAME:
FLORIDA PROFESSIONAL ENGINEER No.

DRAWING LEGEND

- 24" CONSTRUCTED FORCE MAIN
- EX 8" SEWER
- EX 36" SEWER



NO.	BY	DATE	SYMBOL	REVISIONS
6.				
5.				
4.				
3.				
2.				
1.				

SURVEY DATA:	BOOK NO.	BY	DATE	PGS.	BY	DATE
SURVEYED				ALIGNMENT CHECKED		
GRADES CHECKED				RIGHT-OF-WAY CHECKED		
BENCHMARKS				STRUCTURE NOTATION CHECKED		

DESIGNER:	EA
DRAWN BY:	SB
DATE:	Mar. 2009
CHECKED BY:	EA
DATE:	Mar. 2009

DESIGN ENGINEER
Ejaz Ahmad, P.E.
FLORIDA REGISTRATION NO.
P.E. 19893

JEA Building Community

PROJECT NO.	1011549
DATE:	May 2009
SCALE:	1" = 20'

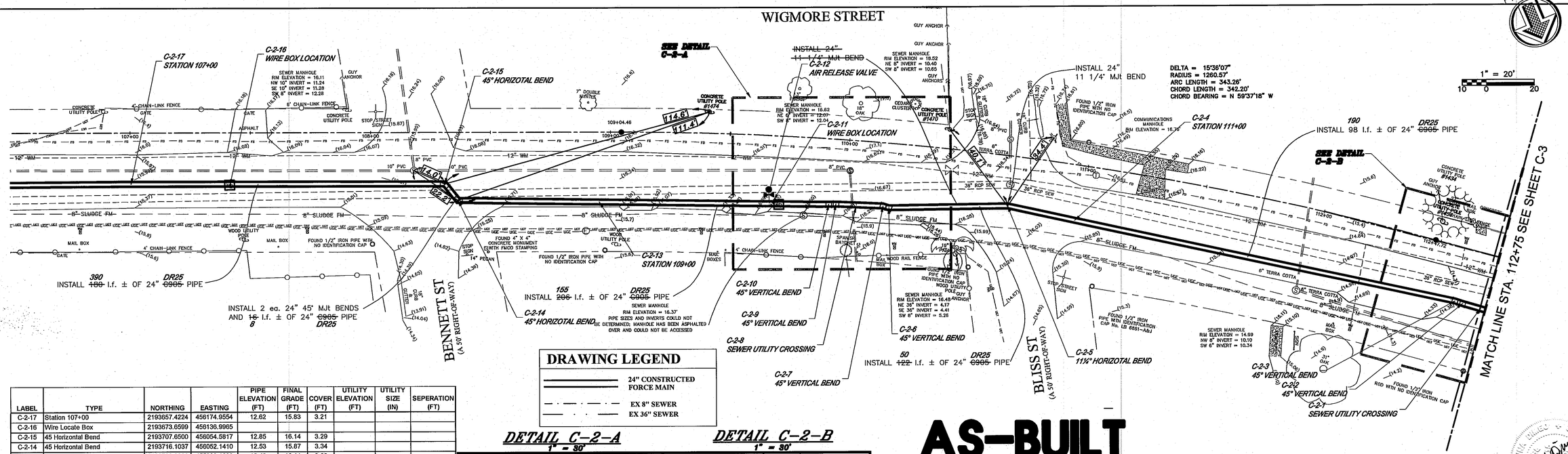
WIGMORE STREET
BUCKMAN ST to LONGBRANCH CREEK
FORCE MAIN REPLACEMENT

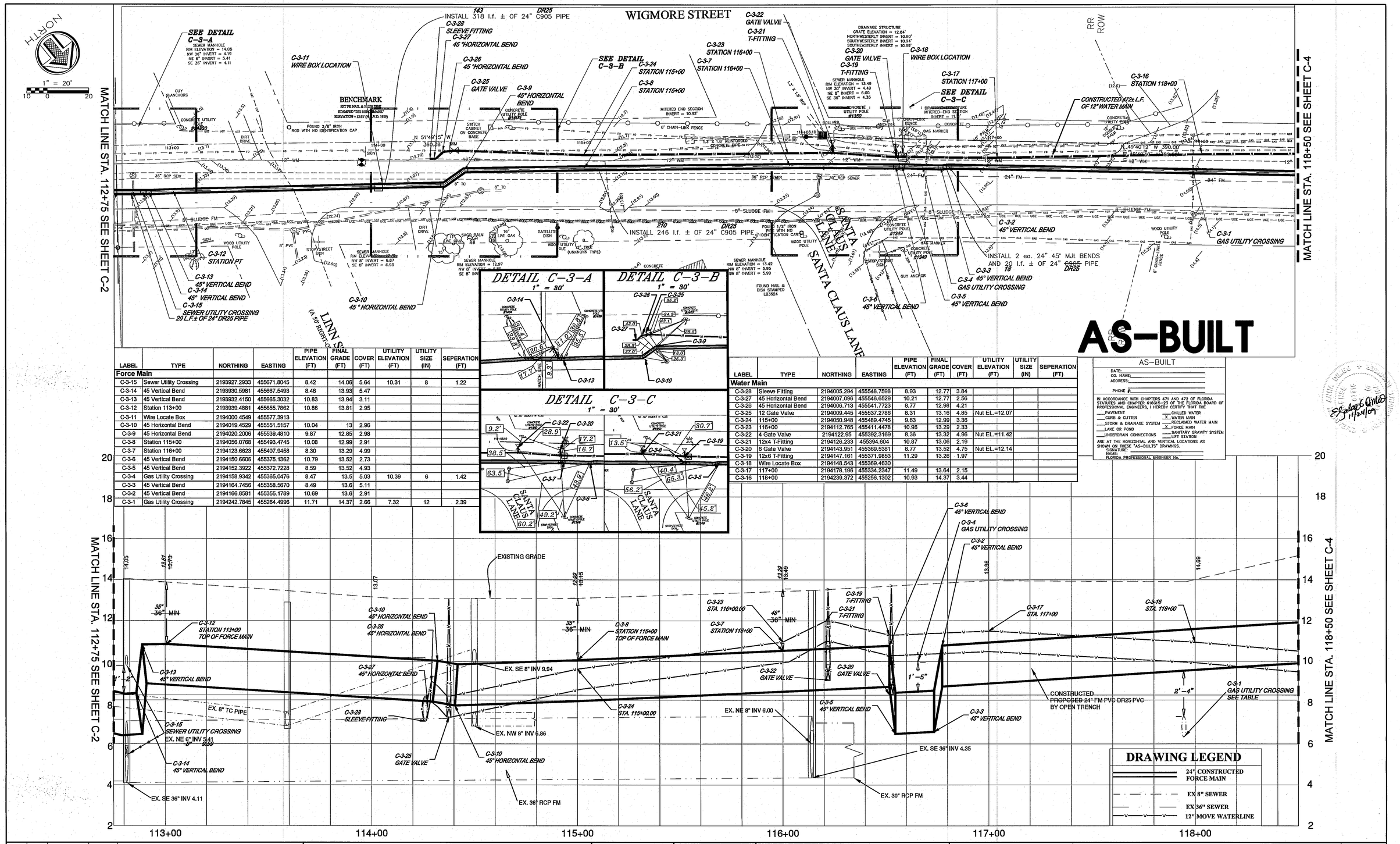
NO. SHEETS	20
SHEET NO.	4
DRAWING NO.	C-1

58256
Wigmore St.
Buckman St. to Longbranch Creek

Nov 23, 2009 - 12:26pm G:\07-187\07-187-02\Wigmore Street\6-19-09\As-Built- Final Wigmore Street\11-23-09\dwg\WIGMORE STREET- C-1.dwg

WIGMORE STREET


MATCH LINE STA. 106+50 SEE SHEET C-1
MATCH LINE STA. 112+75 SEE SHEET C-3
BENNETT ST (A 50' RIGHT-OF-WAY)
BLISS ST (A 50' RIGHT-OF-WAY)
C-2-17 STATION 107+00
C-2-16 WIRE BOX LOCATION
C-2-15 45° HORIZOTAL BEND
SEE DETAIL C-3-4
C-2-12 AIR RELEASE VALVE
INSTALL 24" 11 1/4° MJ BEND
C-2-11 WIRE BOX LOCATION
C-2-4 STATION 111+00
SEE DETAIL C-3-5
INSTALL 98 l.f. ± OF 24" DR25 C905 PIPE
DELTA = 15°36'07"
RADIUS = 1260.57'
ARC LENGTH = 343.26'
CHORD LENGTH = 342.20'
CHORD BEARING = N 59°37'15" W
1" = 20'
390 INSTALL 180 l.f. ± OF 24" DR25 C905 PIPE
INSTALL 2 ea. 24" 45° MJ BENDS AND 16 l.f. ± OF 24" DR25 C905 PIPE
155 INSTALL 206 l.f. ± OF 24" DR25 C905 PIPE
50 INSTALL 122 l.f. ± OF 24" DR25 C905 PIPE
C-2-14 45° HORIZOTAL BEND
C-2-13 STATION 109+00
C-2-10 45° VERTICAL BEND
C-2-9 45° VERTICAL BEND
C-2-8 SEWER UTILITY CROSSING
C-2-7 45° VERTICAL BEND
C-2-6 45° VERTICAL BEND
C-2-5 11¼° HORIZOTAL BEND
C-2-3 45° VERTICAL BEND
C-2-2 45° VERTICAL BEND
C-2-1 SEWER UTILITY CROSSING
SEWER MANHOLE RIM ELEVATION = 16.33' PIPE SIZES AND INVERTS COULD NOT BE DETERMINED; MANHOLE HAS BEEN ASPHALTED OVER AND COULD NOT BE ACCESSED
SEWER MANHOLE RIM ELEVATION = 16.11 NW 10" INVERT = 11.24 SE 10" INVERT = 11.28 SW 8" INVERT = 12.28
SEWER MANHOLE RIM ELEVATION = 16.62 NE 8" INVERT = 12.07 SW 8" INVERT = 12.04
SEWER MANHOLE RIM ELEVATION = 18.52 NE 8" INVERT = 10.40 SW 8" INVERT = 10.65
SEWER MANHOLE RIM ELEVATION = 16.48 NE 36" INVERT = 4.17 SE 36" INVERT = 4.41 SW 8" INVERT = 5.26
SEWER MANHOLE RIM ELEVATION = 14.99 NW 8" INVERT = 10.10 SW 6" INVERT = 10.34
FOUND 4" X 4" CONCRETE MONUMENT WITH FMCO STAMPING
FOUND 1/2" IRON PIPE WITH NO IDENTIFICATION CAP
FOUND 1/2" IRON PIPE WITH NO IDENTIFICATION CAP WOOD UTILITY POLE
FOUND 1/2" IRON PIPE WITH NO IDENTIFICATION CAP No. LB 6881-A&J
COMMUNICATIONS MANHOLE RIM ELEVATION = 16.70
CONCRETE UTILITY POLE #1474
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CONCRETE UTILITY POLE #1470
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LABEL	TYPE	NORTHING	EASTING	PIPE ELEVATION (FT)	FINAL GRADE (FT)	COVER (FT)	UTILITY ELEVATION (FT)	UTILITY SIZE (IN)	SEPERATION (FT)
Force Main									
C-3-15	Sewer Utility Crossing	2193927.2933	455671.8045	8.42	14.06	5.64	10.31	8	1.22
C-3-14	45 Vertical Bend	2193930.5981	455667.5493	8.46	13.93	5.47			
C-3-13	45 Vertical Bend	2193932.4150	455665.3032	10.83	13.94	3.11			
C-3-12	Station 113+00	2193939.4881	455655.7862	10.86	13.81	2.95			
C-3-11	Wire Locate Box	2194000.4549	455577.3913						
C-3-10	45 Horizontal Bend	2194019.4529	455551.5157	10.04	13	2.96			
C-3-9	45 Horizontal Bend	2194020.2006	455539.4810	9.87	12.85	2.98			
C-3-8	Station 115+00	2194056.0768	455493.4745	10.08	12.99	2.91			
C-3-7	Station 116+00	2194123.6623	455407.9458	8.30	13.29	4.99			
C-3-6	45 Vertical Bend	2194150.6606	455375.1362	10.79	13.52	2.73			
C-3-5	45 Vertical Bend	2194152.3922	455372.7228	8.59	13.52	4.93			
C-3-4	Gas Utility Crossing	2194158.9342	455365.0476	8.47	13.5	5.03	10.39	6	1.42
C-3-3	45 Vertical Bend	2194164.7456	455358.5670	8.49	13.6	5.11			
C-3-2	45 Vertical Bend	2194166.8581	455355.1789	10.69	13.6	2.91			
C-3-1	Gas Utility Crossing	2194242.7845	455264.4996	11.71	14.37	2.66	7.32	12	2.39

LABEL	TYPE	NORTHING	EASTING	PIPE ELEVATION (FT)	FINAL GRADE (FT)	COVER (FT)	UTILITY ELEVATION (FT)	UTILITY SIZE (IN)	SEPERATION (FT)
Water Main									
C-3-28	Sleeve Fitting	2194005.294	455548.7598	8.93	12.77	3.84			
C-3-27	45 Horizontal Bend	2194007.096	455546.6529	10.21	12.77	2.56			
C-3-26	45 Horizontal Bend	2194006.713	455541.7723	8.77	12.98	4.21			
C-3-25	12 Gate Valve	2194009.445	455537.2786	8.31	13.16	4.85	Nut EL.=12.07		
C-3-24	115+00	2194050.948	455489.4745	9.63	12.99	3.36			
C-3-23	116+00	2194112.765	455411.4478	10.96	13.29	2.33			
C-3-22	4 Gate Valve	2194122.95	455392.3169	8.36	13.32	4.96	Nut EL.=11.42		
C-3-21	12x4 T-Fitting	2194126.233	455394.604	10.87	13.06	2.19			
C-3-20	6 Gate Valve	2194143.951	455369.5381	8.77	13.52	4.75	Nut EL.=12.14		
C-3-19	12x6 T-Fitting	2194147.161	455371.9853	11.29	13.26	1.97			
C-3-18	Wire Locate Box	2194148.543	455369.4630						
C-3-17	117+00	2194178.196	455334.2347	11.49	13.64	2.15			
C-3-16	118+00	2194239.372	455256.1302	10.93	14.37	3.44			

AS-BUILT

DATE:
CO. NAME:
ADDRESS:
PHONE #:

IN ACCORDANCE WITH CHAPTERS 471 AND 472 OF FLORIDA STATUTES AND CHAPTER 61G15-23 OF THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS, I HEREBY CERTIFY THAT THE

___PAVEMENT
___CURB & GUTTER
___STORM & DRAINAGE SYSTEM
___LAKE OR POND
___UNDERDRAIN CONNECTIONS
___CHILLED WATER
_X_ WATER MAIN
___RECLAIMED WATER MAIN
_X_ FORCE MAIN
___SANITARY GRAVITY SYSTEM
___LIFT STATION

ARE AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "AS-BUILTS" DRAWINGS.

SIGNATURE:
NAME:
FLORIDA PROFESSIONAL ENGINEER No.

Ejaz Ahmad P.E. 11/24/09

NO.	BY	DATE	SYMBOL	REVISIONS
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SURVEY DATA:	BOOK NO.	BY	DATE	PGS.	BY	DATE
SURVEYED				ALIGNMENT CHECKED		
GRADES CHECKED				RIGHT-OF-WAY CHECKED		
BENCHMARKS				STRUCTURE NOTATION CHECKED		

DESIGNER:	EA
DRAWN BY:	SB
DATE:	Mar. 2009
CHECKED BY:	EA
DATE:	Mar. 2009

DESIGN ENGINEER
Ejaz Ahmad, P.E.
FLORIDA REGISTRATION NO.
P.E. 19893

JEA Building Community

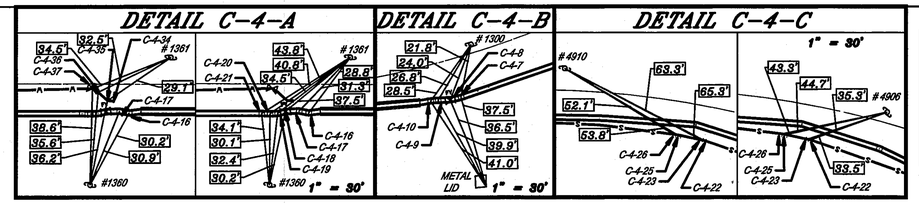
PROJECT NO.	1011549
DATE:	May 2009
SCALE:	1" = 20'

WIGMORE STREET
BUCKMAN ST to LONGBRANCH CREEK
FORCE MAIN REPLACEMENT

NO. SHEETS	20
SHEET NO.	6
DRAWING NO.	C-3

58258
Wigmore St.
Buckman St. to Longbranch Creek

Nov 23, 2009 - 12:32pm G:\07-187\07-187-02\Wigmore Street\16-19-09\As-Built- Final Wigmore Street\11-23-09\dwg\WIGMORE STREET- C-3.dwg



NORTH

1" = 20'

10 0 20

WIGMORE STREET

DRAWING LEGEND

- 24" CONSTRUCTED FORCE MAIN
- EX 36" SEWER
- EX 8" SEWER
- 12"MOVE WATERLINE
- 8" SLUDGE MAIN

DELTA = 60°27'41"
RADIUS = 386.11'
ARC LENGTH = 407.45'
CHORD LENGTH = 388.80'
CHORD BEARING = N 41°14'27" W

INSTALL 24" 11 1/4° MJT BEND AND 51 l.f. ± OF 24" C905 PIPE

INSTALL 24" 11 1/4° MJT BEND AND 23 l.f. ± OF 24" C905 PIPE

INSTALL 24" 11 1/4° MJT BEND C-4-30

WIRE BOX LOCATION

INSTALL ~~124~~ 598 l.f. ± OF 24" ~~C905~~ PIPE DR25

C-4-3 STATION 123+00

C-4-31 STATION 122+00

C-4-2 STATION 124+00

SEE DETAIL C-4-C

C-4-23 STORM WATER DRAINAGE CROSSING

C-4-24 STORM WATER DRAINAGE CROSSING

DRAINAGE STRUCTURE GRATE ELEVATION = 16.79' NE 18" INVERT = 10.89' SE 18" INVERT = 11.89' SW 18" INVERT = 10.70'

DRAINAGE STRUCTURE GRATE ELEVATION = 15.99' NW 15" INVERT = 12.22' S 15" INVERT = 13.73' SW 15" INVERT = 13.44'

DRAINAGE STRUCTURE GRATE ELEVATION = 14.09' SOUTHWESTERLY INVERT = 12.19'

FOUND 1/2" IRON PIPE WITH IDENTIFICATION CAP No. 3672

#4910

#4906

INSTALL 4 ea. 8" 45° MJ BENDS AND 25 l.f. ± OF 8" C905 PIPE UNDER PROPOSED 24" FORCE MAIN

INSTALL 24" GATE VALVE w/ BOX & COVER OUTSIDE RAILROAD RIGHT-OF-WAY

C-4-8 GATE VALVE

C-4-11 END OF 42" STEEL CASING

INSTALL ~~102~~ 36 l.f. ± OF 24" ~~C905~~ PIPE DR25

CONSTRUCT ~~217~~ 94 l.f. +/- OF 24" DR25 ~~C-905~~ FORCE MAIN PIPE AND 24" 11 1/4° M.Jt. BEND

INSTALL 24" 11 1/4° MJT BEND 73

CONSTRUCT ~~217~~ l.f. +/- OF 24" DR25 ~~C-905~~ FORCE MAIN PIPE AND 24" 11 1/4° M.Jt. BEND

C-4-12 END OF 42" STEEL CASING

INSTALL 42" CASING AS PER RR PERMIT

C-4-13 WIRE BOX LOCATION

INSTALL ~~246~~ 204 l.f. ± OF 24" ~~C905~~ DR25 PIPE

C-4-40 GATE VALVE

C-4-39 45° HORIZONTAL BEND

C-4-38 45° HORIZONTAL BEND

INSTALL 42" CASING AS PER RR PERMIT

C-4-37 SLEEVE FITTING

C-4-16 45° VERTICAL BEND

C-4-15 END OF 42" STEEL CASING

C-4-17 45° VERTICAL BEND

C-4-18 GATE VALVE

C-4-19 45° VERTICAL BEND

C-4-21 11¼° VERTICAL BEND

C-4-20 22½° VERTICAL BEND

JACK AND BORE ~~69~~ 68 l.f. OF 42" DIA., .625 WALL STEEL CASING PIPE AS PER NSCE-8 SECTION 5.1.3

BENCHMARK
SET PENAIL & BLUE DISK STAMPED "JEA BENCHMARK"
ELEVATION = 13.92' (N.G.V.D. 1929)

JACK AND BORE ~~83~~ 89 l.f. OF 42" DIA., .625 WALL STEEL CASING PIPE AS PER NSCE-8 SECTION 5.1.3

INSTALL 24" 11 1/4° MJT BEND AND 15 l.f. ± OF 24" C905 PIPE

C-4-4 AIR RELEASE VALVE

C-4-5 TELEPHONE LINE CROSSING

C-4-6 WATER LINE CROSSING

C-4-7 11¼° HORIZONTAL BEND

C-4-33 GATE VALVE

DELTA = 21°48'06"
RADIUS = 405.79'
ARC LENGTH = 154.41'
CHORD LENGTH = 153.48'
CHORD BEARING = N 60°34'15" W

INSTALL ~~170~~ 90 l.f. ± OF 24" ~~C905~~ DR25 PIPE

N 71°28'15" W 71.5'

14.8'

35.8'

86.8'

60.4'

EXISTING 8" SLUDGE MAIN

C-4-36 8 SLEEVE TIE IN

C-4-35 45° HORIZONTAL BEND

C-4-34 11¼° HORIZONTAL BEND

C-4-32 STATION 122+00

INSTALL 8" 45° MJ BEND 85 l.f. ± OF 8" C905 PIPE AND 8" 22 1/2° MJT BEND

C-4-10 45° VERTICAL BEND

C-4-9 45° VERTICAL BEND

C-4-14 END OF 42" STEEL CASING

C-4-29 11¼° HORIZONTAL BEND

C-4-28 SLEEVE FITTING

C-4-27 STATION 124+00

C-4-26 45° VERTICAL BEND

C-4-25 45° VERTICAL BEND

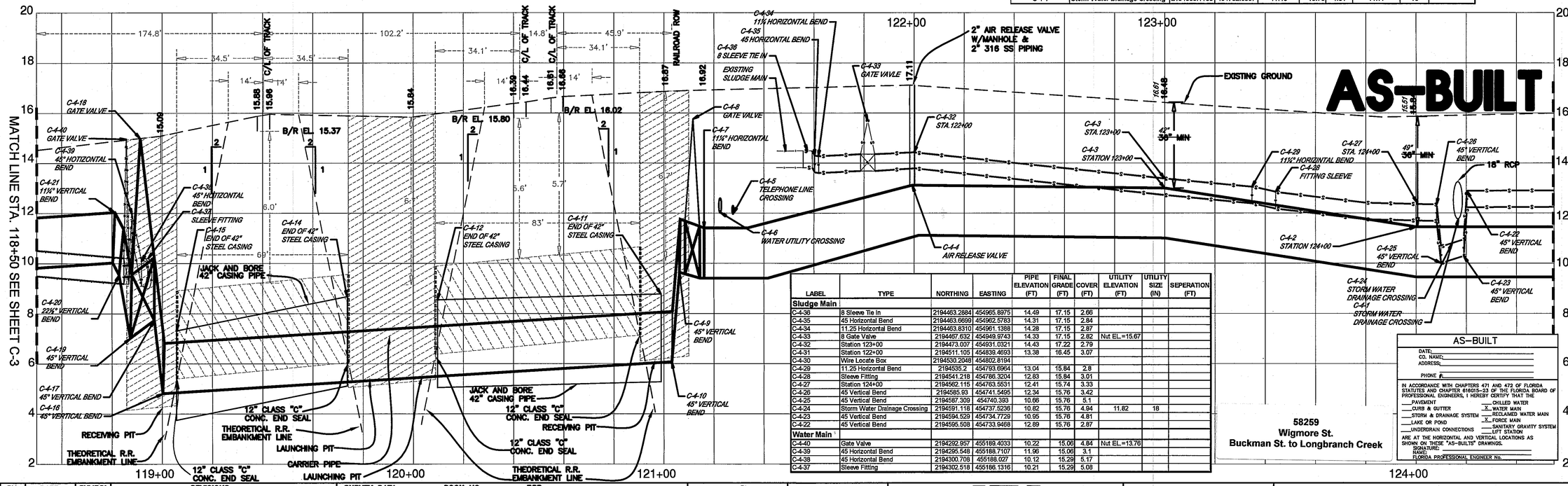
C-4-22 45° VERTICAL BEND

C-4-23 45° VERTICAL BEND

MATCH LINE STA. 118+50 SEE SHEET C-3

MATCH LINE STA. 124+75 SEE SHEET C-5

LABEL	TYPE	NORTHING	EASTING	PIPE ELEVATION (FT)	FINAL GRADE (FT)	COVER (FT)	UTILITY ELEVATION (FT)	UTILITY SIZE (IN)	SEPERATION (FT)
Force Main									
C-4-21	11.25 Vertical Bend	2194298.1045	455199.6319	12.04	15.41	3.37			
C-4-20	22.5 Vertical Bend	2194300.3893	455197.0466	11.37	15.41	4.04			
C-4-19	45 Vertical Bend	2194302.4005	455194.5361	9.56	15.41	5.85			
C-4-18	24 Gate Valve	2194303.9087	455191.4561	9.98	15.41	5.43	Nut EL.=13.58		
C-4-17	45 Vertical Bend	2194307.4021	455186.9748	10.23	15.65	5.42			
C-4-16	45 Vertical Bend	2194310.5465	455184.4371	6.82	15.65	8.83			
C-4-15	End of 42-IN Steel Casing	2194313.1938	455180.3055	7.32	15.65	8.33			
C-4-14	End of 42-IN Steel Casing	2194357.0250	455128.3696	8.68	16.15	7.47			
C-4-13	Wire Locate Box	2194367.9394	455113.6590						
C-4-12	End of 42-IN Steel Casing	2194379.4298	455100.1436	8.55	16.34	7.79			
C-4-11	End of 42-IN Steel Casing	2194431.0403	455027.0601	8.78	16.84	8.06			
C-4-10	45 Vertical Bend	2194433.3779	455023.0434	8.08	16.84	8.76			
C-4-9	45 Vertical Bend	2194435.2089	455020.5260	11.76	16.84	5.08			
C-4-8	24 Gate Valve	2194438.3139	455016.4735	11.58	16.85	5.27	Nut EL.=15.08		
C-4-7	11.25 Horizontal Bend	2194440.3799	455012.3488	11.41	16.92	5.51			
C-4-6	Water Utility Crossing	2194442.6679	455005.3213	11.41	16.96	5.55	12.01	6	0.39
C-4-5	Telephone Line Crossing	2194444.3408	455000.7285	11.41	16.96	5.55	11.97	4	0.56
C-4-4	Air Release Valve	2194472.5632	454928.6167	13.12	17.22	4.10			
C-4-3	Station 123+00	2194508.4155	454838.6451	12.99	16.45	3.46			
C-4-2	Station 124+00	2194560.1030	454761.4120	11.45	15.74	4.29			
C-4-1	Storm Water Drainage Crossing	2194588.1168	454732.3507	11.45	15.76	4.31	11.77	18	



LABEL	TYPE	NORTHING	EASTING	PIPE ELEVATION (FT)	FINAL GRADE (FT)	COVER (FT)	UTILITY ELEVATION (FT)	UTILITY SIZE (IN)	SEPERATION (FT)
Sludge Main									
C-4-36	8 Sleeve Tie In	2194463.2884	454965.8975	14.49	17.15	2.66			
C-4-35	45 Horizontal Bend	2194463.6699	454962.5783	14.31	17.15	2.84			
C-4-34	11.25 Horizontal Bend	2194463.8310	454961.1388	14.28	17.15	2.87			
C-4-33	8 Gate Valve	2194467.632	454949.9743	14.33	17.15	2.82	Nut EL.=15.67		
C-4-32	Station 123+00	2194473.007	454931.0321	14.43	17.22	2.79			
C-4-31	Station 122+00	2194511.105	454839.4693	13.38	16.45	3.07			
C-4-30	Wire Locate Box	2194530.2048	454802.8194						
C-4-29	11.25 Horizontal Bend	2194535.2	454793.6964	13.04	15.84	2.8			
C-4-28	Sleeve Fitting	2194541.218	454786.3204	12.83	15.84	3.01			
C-4-27	Station 124+00	2194562.115	454763.5531	12.41	15.74	3.33			
C-4-26	45 Vertical Bend	2194585.93	454741.5495	12.34	15.76	3.42			
C-4-25	45 Vertical Bend	2194587.309	454740.393	10.66	15.76	5.1			
C-4-24	Storm Water Drainage Crossing	2194591.118	454737.5236	10.82	15.76	4.94	11.82	18	
C-4-23	45 Vertical Bend	2194594.529	454734.7729	10.95	15.76	4.81			
C-4-22	45 Vertical Bend	2194595.508	454733.9468	12.89	15.76	2.87			
Water Main									
C-4-40	Gate Valve	2194292.957	455189.4033	10.22	15.06	4.84	Nut EL.=13.76		
C-4-39	45 Horizontal Bend	2194295.548	455188.7107	11.96	15.06	3.1			
C-4-38	45 Horizontal Bend	2194300.708	455188.027	10.12	15.29	5.17			
C-4-37	Sleeve Fitting	2194302.518	455186.1316	10.21	15.29	5.08			

58259
Wigmore St.
Buckman St. to Longbranch Creek

AS-BUILT

DATE:
CO. NAME:
ADDRESS:
PHONE #:

IN ACCORDANCE WITH CHAPTERS 471 AND 472 OF FLORIDA STATUTES AND CHAPTER 61G15-23 OF THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS, I HEREBY CERTIFY THAT THE

- ___ PAVEMENT
- ___ CURB & GUTTER
- ___ STORM & DRAINAGE SYSTEM
- ___ LAKE OR POND
- ___ UNDERDRAIN CONNECTIONS
- ___ CHILLED WATER
- X WATER MAIN
- ___ RECLAIMED WATER MAIN
- X FORCE MAIN
- ___ SANITARY GRAVITY SYSTEM
- ___ LIFT STATION

ARE AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "AS-BUILTS" DRAWINGS.

SIGNATURE:
PRINT NAME:
FLORIDA PROFESSIONAL ENGINEER No.

Elgaz Ahmad 11/24/09

NO.	BY	DATE	SYMBOL	REVISIONS
6.				
5.				
4.				
3.				
2.				
1.	MO	6-19-09	Δ	ADDENDUM #1

SURVEY DATA:	BOOK NO.	BY	DATE	PGS.	BY	DATE
SURVEYED				ALIGNMENT CHECKED		
GRADES CHECKED				RIGHT-OF-WAY CHECKED		
BENCHMARKS				STRUCTURE NOTATION CHECKED		

DESIGNER: EA
DRAWN BY: SB
DATE: Mar. 2009
CHECKED BY: EA
DATE: Mar. 2009

DESIGN ENGINEER
Ejaz Ahmad, P.E.
FLORIDA REGISTRATION NO.
P.E. 19893

JEA Building Community

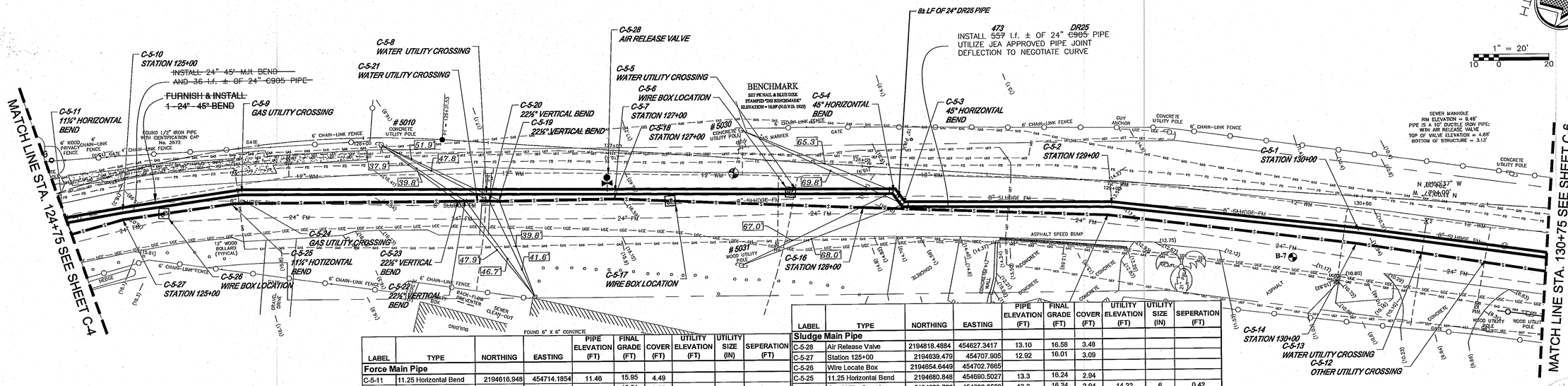
PROJECT NO. 1011549
DATE: May 2009
SCALE: 1" = 20'

WIGMORE STREET
BUCKMAN ST to LONGBRANCH CREEK
FORCE MAIN REPLACEMENT

NO. SHEETS 20
SHEET NO. 7
DRAWING NO. C-4

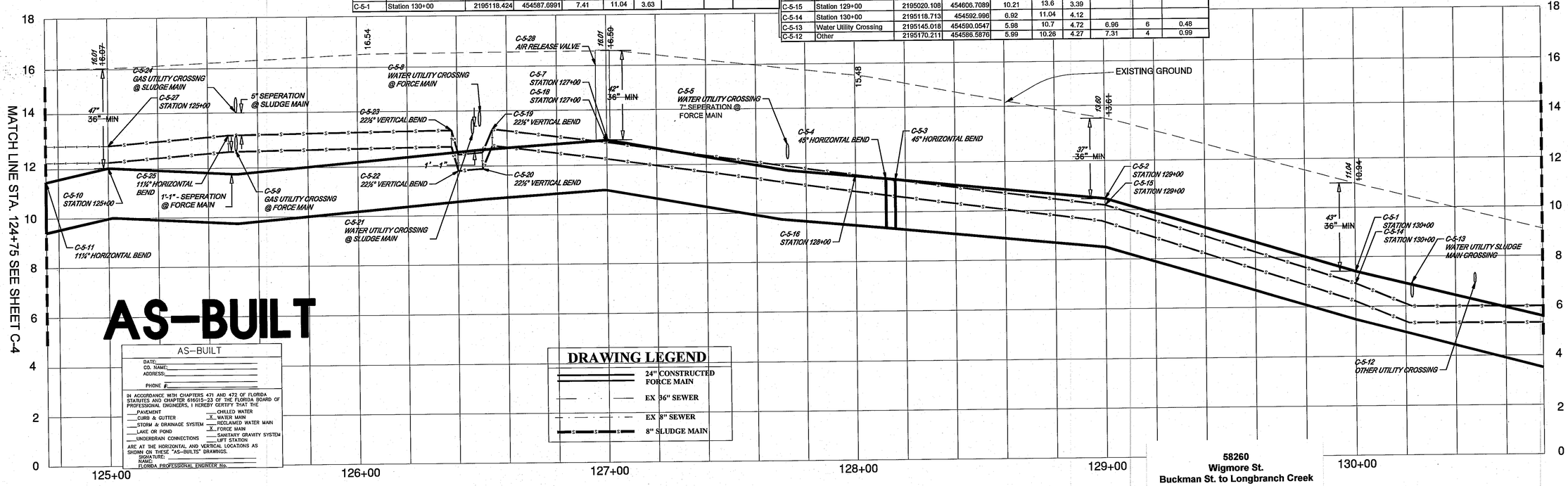
Nov 24, 2009 - 9:56am GA:07-187\07-187-02\Wigmore Street\11-23-09\As-Built-- Final Wigmore Street\11-23-09\dwg\WIGMORE STREET-- C-4.dwg

WIGMORE STREET



LABEL	TYPE	NORTHING	EASTING	PIPE ELEVATION (FT)	FINAL GRADE (FT)	COVER (FT)	UTILITY ELEVATION (FT)	UTILITY SIZE (IN)	SEPERATION (FT)
Force Main Pipe									
C-5-11	11.25 Horizontal Bend	2194616.948	454714.1854	11.46	15.95	4.49			
C-5-10	Station 125+00	2194638.45	454704.2409	12.03	16.01	3.98			
C-5-9	Gas Utility Crossing	2194682.593	454685.273	11.76	16.24	4.48	13.29	6	1.03
C-5-8	Water Utility Crossing	2194777.833	454660.5165	12.65	16.64	3.99	14.21	6	1.06
C-5-7	Station 127+00	2194826.748	454647.3597	13.1	16.62	3.52			
C-5-6	Wire Locate Box	2194895.4269	454629.1088						
C-5-5	Water Utility Crossing	2194896.609	454628.1724	11.72	15.94	4.22	12.8	6	0.58
C-5-4	45 Horizontal Bend	2194934.868	454619.0576	11.36	15.36	4			
C-5-3	45 Horizontal Bend	2194939.831	454623.0744	11.3	15.24	3.94			
C-5-2	Station 129+00	2195020.497	454602.2329	10.46	13.6	3.14			
C-5-1	Station 130+00	2195118.424	454587.6991	7.41	11.04	3.63			

LABEL	TYPE	NORTHING	EASTING	PIPE ELEVATION (FT)	FINAL GRADE (FT)	COVER (FT)	UTILITY ELEVATION (FT)	UTILITY SIZE (IN)	SEPERATION (FT)
Sludge Main Pipe									
C-5-28	Air Release Valve	2194818.4884	454627.3417	13.10	16.58	3.48			
C-5-27	Station 125+00	2194639.479	454707.905	12.92	16.01	3.09			
C-5-26	Wire Locate Box	2194654.6449	454702.7665						
C-5-25	11.25 Horizontal Bend	2194680.848	454690.5027	13.3	16.24	2.94			
C-5-24	Gas Utility Crossing	2194683.763	454688.3528	13.3	16.24	2.94	14.22	6	0.42
C-5-23	22.5 Vertical Bend	2194767.132	454667.0303	13.45	16.6	3.15			
C-5-22	22.5 Vertical Bend	2194769.756	454666.1989	12.47	16.6	4.13			
C-5-21	Water Utility Crossing	2194774.76	454665.3479	12.49	16.64	4.15	13.2	6	0.21
C-5-20	22.5 Vertical Bend	2194779.084	454663.7026	12.54	16.64	4.10			
C-5-19	22.5 Vertical Bend	2194782.969	454662.8223	13.48	16.64	3.16			
C-5-18	Station 127+00	2194827.209	454650.3017	12.92	16.62	3.70			
C-5-17	Wire Locate Box	2194849.1169	454645.2137						
C-5-16	Station 128+00	2194924.56	454628.4835	11.51	15.53	4.02			
C-5-15	Station 129+00	2195020.108	454606.7089	10.21	13.6	3.39			
C-5-14	Station 130+00	2195118.713	454592.996	6.92	11.04	4.12			
C-5-13	Water Utility Crossing	2195145.018	454590.0547	5.98	10.7	4.72	6.96	6	0.48
C-5-12	Other	2195170.211	454586.5876	5.99	10.26	4.27	7.31	4	0.99



AS-BUILT

AS-BUILT

DATE:
CO. NAME:
ADDRESS:
PHONE #:

IN ACCORDANCE WITH CHAPTERS 471 AND 472 OF FLORIDA STATUTES AND CHAPTER 61G15-23 OF THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS, I HEREBY CERTIFY THAT THE

___PAVEMENT
___CURB & GUTTER
___STORM & DRAINAGE SYSTEM
___LAKE OR POND
___UNDERDRAIN CONNECTIONS
___CHILLED WATER
X WATER MAIN
___RECLAIMED WATER MAIN
X FORCE MAIN
___SANITARY GRAVITY SYSTEM
___LIFT STATION

ARE AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "AS-BUILTS" DRAWINGS.

SIGNATURE:
NAME:
FLORIDA PROFESSIONAL ENGINEER No.

DRAWING LEGEND

- 24" CONSTRUCTED FORCE MAIN
- EX 36" SEWER
- EX 8" SEWER
- 8" SLUDGE MAIN

58260
Wigmore St.
Buckman St. to Longbranch Creek

NO.	BY	DATE	SYMBOL	REVISIONS
6.				
5.				
4.				
3.				
2.				
1.				

SURVEY DATA:	BOOK NO.	BY	DATE	PGS.	BY	DATE
SURVEYED				ALIGNMENT CHECKED		
GRADES CHECKED				RIGHT-OF-WAY CHECKED		
BENCHMARKS				STRUCTURE NOTATION CHECKED		

DESIGNER:	EA
DRAWN BY:	SB
DATE:	Mar. 2009
CHECKED BY:	SB
DATE:	Mar. 2009

DESIGN ENGINEER
Ejaz Ahmad, P.E.
FLORIDA REGISTRATION NO.
P.E. 19893

JEA Building Community

PROJECT NO.	1011549
DATE:	May 2009
SCALE:	1" = 20'

WIGMORE STREET
BUCKMAN ST to LONGBRANCH CREEK
FORCE MAIN REPLACEMENT

NO. SHEETS	20
SHEET NO.	8
DRAWING NO.	C-5

Nov 23, 2009 - 1:02pm G:\07-187\07-187-02\Wigmore Street\6-19-09\As-Built- Final Wigmore Street\11-23-09\dwg\WIGMORE STREET- C-5.dwg

ADDENDUM 1
INFORMATIONAL ONLY
THESE DRAWINGS/BORING PROFILES DO NOT REPLACE TH REQUIREMENT OF THE CONTRACTOR TO CALL SUNSHINE STATE ONE CALL PRIOR TO DIGGING. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVES.

NORTH
1" = 20'
10 0 20

MATCH LINE STA. 130+75 SEE SHEET C-5

~~INSTALL 77 l.f. ± OF 24" C905 PIPE~~
~~FURNISH & INSTALL 24" 11-1/4° BEND~~
~~INSTALL 8" 45° MJ BEND AND 68 l.f. ± OF 8" C905 PIPE~~
473 INSTALL 557 l.f. ± OF 24" C905 PIPE DR25
UTILIZE JEA APPROVED PIPE JOINT DEFLECTION TO NEGOTIATE CURVE
~~INSTALL 4 ea. 8" 45° MJ BENDS AND 25 l.f. ± OF 8" C905 PIPE UNDER PROPOSED 24" FORCE MAIN~~
SEE DETAIL C-6-A
WIGMORE STREET
329 L.F.± OF 24" DR25 PIPE
INSTALL 24" 45° MJ BEND
SEE DETAIL C-6-B ON SHEET C-6A
SEE DETAIL C-6-C ON SHEET C-6A
INSTALL 24"x24"x6" MJ TEE
INSTALL 24"x22½° MJ VALVES W/ BOXES & COVERS AND 24" MJ ADAPTER
36 L.F.± OF 24" DR25 PIPE
INSTALL 311 l.f. ± OF 24" C905 PIPE DR25
INSTALL 24" 11-1/4° MJ BEND

C-6-1 GATE VALVE
C-6-2 22½° HOTIZONTAL BEND
C-6-3 45° VERTICAL BEND
C-6-4 45° VERTICAL BEND
C-6-5 WATER UTILITY CROSSING
C-6-6 AIR RELEASE VALVE
C-6-7 ELECTRIC UTILITY CROSSING
C-6-8 WIRE BOX LOCATION
C-6-9 45° HORIZONTAL BEND
C-6-10 22½° HORIZONTAL BEND
C-6-11 SLEEVE FITTING
C-6-12 90° HORIZONTAL BEND
C-6-13 WIRE BOX LOCATION
C-6-14 90° HORIZONTAL BEND
C-6-15 GATE VALVE
C-6-16 GAS UTILITY CROSSING
C-6-17 TELEPHONE UTILITY CROSSING
C-6-18 WATER UTILITY CROSSING
C-6-19 90° HORIZONTAL BEND
C-6-20 45° VERTICAL BEND
C-6-21 SLEEVE FITTING
C-6-22 STATION 132+00
C-6-23 GATE VALVE
C-6-24 STATION 132+00
C-6-25 STATION 131+00
C-6-26 AIR RELEASE VALVE

LABEL	TYPE	NORTHING	EASTING	PIPE ELEVATION (FT)	FINAL GRADE (FT)	COVER (FT)	UTILITY ELEVATION (FT)	UTILITY SIZE (IN)	SEPERATION (FT)
Sludge Main Pipe									
C-6-25	Station 131+00	2195218.5899	454582.1404	5.21	8.32	3.11			
C-6-24	Station 132+00	2195319.2905	454566.8674	2.3	5.87	3.57			
C-6-23	Gate Valve	2195327.7363	454566.6414	2.33	5.76	3.43	Nut EL.=3.44		
Force Main Pipe									
C-6-26	Air Release Valve	2195413.7672	454526.7425	2.17	4.98	2.74			
C-6-22	Station 132+00	2195318.0405	454562.8025	2.59	5.88	3.29			
C-6-21	Sleeve Fitting	2195405.4006	454543.6149	1.89	5.09	3.2			
C-6-20	45 Vertical Bend	2195423.7765	454538.6621	2.17	4.98	2.81			
C-6-19	90 Horizontal Bend	2195428.7670	454536.3239	2.24	4.98	2.74			
C-6-18	Water Utility Crossing	2195430.6220	454526.1428	-2.24	4.45	6.69	-0.16	12	1.08
C-6-17	Telephone Line Crossing	2195432.8808	454519.7419	-2.24	4.25	6.49	1.21	4	3.12
C-6-16	Gas Utility Crossing	2195428.8982	454515.626	-2.24	3.91	6.15	0.12	12	1.36
C-6-15	Gate Valve	2195423.7345	454514.9939	-0.36	3.8	4.16	Nut EL.=1.39		
C-6-14	90 Horizontal Bend	2195421.0324	454501.1665	-2.04	1.81	3.85			
C-6-13	Wire Locate Box	2195444.6006	454494.7829						
Pump Station									
C-6-12	90 Horizontal Bend	2195728.9918	458386.8196	0.76	5.59	4.83			
C-6-11	Sleeve Fitting	2195729.8740	454376.4935	0.68	5.59	4.91			
C-6-10	22.5 Horizontal Bend	2195728.9350	454369.8357	0.68	5.67	4.99			
C-6-9	45 Horizontal Bend	2195726.3117	45367.51679	0.73	5.45	4.72			
C-6-8	Wire Locate Box	2195724.2582	454366.9157						
C-6-7	Electric Utility Crossing	2195710.1732	454365.2419	1.09	5.11	4.02	3.09	4	1.67
C-6-6	Air Release Valve	2195701.9157	454361.9912	2.18					
C-6-5	Water Utility Crossing	2195697.0771	454360.3951	1.07	5.11	4.04	2.84	4	1.44
C-6-4	45 Vertical Bend	2195689.8196	454359.2514	1.17	5.11	3.94			
C-6-3	45 Vertical Bend	2195689.4397	454358.8301	-0.84	5.11	5.95			
C-6-2	22.5 Horizontal Bend	2195682.2205	454356.2698	-0.74	5.11	5.85			
C-6-1	Gate Valve	2195679.7183	454356.2494	-0.74	5.11	5.85	Nut EL.=3.06		

MATCH LINE STA. 130+75 SEE SHEET C-5

AS-BUILT

AS-BUILT
DATE:
CO. NAME:
ADDRESS:
PHONE #:
IN ACCORDANCE WITH CHAPTERS 471 AND 472 OF FLORIDA STATUTES AND CHAPTER 61G15-23 OF THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS, I HEREBY CERTIFY THAT THE
___PAVEMENT ___CHILLED WATER
___CURB & GUTTER X WATER MAIN
___STORM & DRAINAGE SYSTEM ___RECLAIMED WATER MAIN
X FORCE MAIN
___LAKE OR POND ___SANITARY GRAVITY SYSTEM
___UNDERDRAIN CONNECTIONS ___LIFT STATION
ARE AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "AS-BUILTS" DRAWINGS.
SIGNATURE:
NAME:
FLORIDA PROFESSIONAL ENGINEER No.

EXISTING GRADE
SXISTING SLUDGE MAIN
WATER LEVEL ELEV. = 0.70' (JUNE 4, 2009)
ONE HDD 250' HDPE DR 11 FORCE MAIN
SEE SHEET C-6A FOR DIRECTIONAL DRILL ELEVATIONS

DRAWING LEGEND
24" CONSTRUCTED FORCE MAIN
EX 36" SEWER
EX 8" SEWER
8" SLUDGE MAIN

DETAIL C-6-A

NO.	BY	DATE	SYMBOL	REVISIONS
6.				
5.				
4.				
3.				
2.				
1.				

SURVEY DATA:	BOOK NO.	BY	DATE	PGS.	BY	DATE
SURVEYED				ALIGNMENT CHECKED		
GRADES CHECKED				RIGHT-OF-WAY CHECKED		
BENCHMARKS				STRUCTURE NOTATION CHECKED		

DESIGNER:	EA
DRAWN BY:	SB
DATE:	Mar. 2009
CHECKED BY:	EA
DATE:	Mar. 2009

DESIGN ENGINEER
Ejaz Ahmad, P.E.
FLORIDA REGISTRATION NO.
P.E. 19893

JEA Building Community

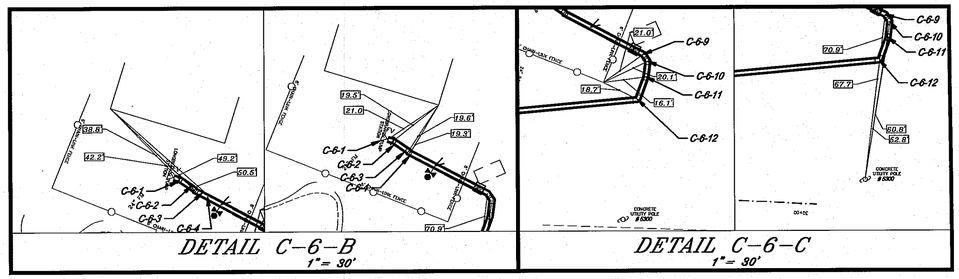
PROJECT NO.	1011549
DATE:	May 2009
SCALE:	1" = 20'

WIGMORE STREET
BUCKMAN ST to LONGBRANCH CREEK
FORCE MAIN REPLACEMENT

NO. SHEETS	20
SHEET NO.	9
DRAWING NO.	C-6

58261
Wigmore St.
Buckman St. to Longbranch Creek

Nov 23, 2009 - 11:22am G:\07-187\07-187-02\Wigmore Street\6-19-09\As-Built- Final Wigmore Street\11-23-09\dwg\WIGMORE STREET- C-6.dwg



DETAIL C–6–B
1" = 30'

DETAIL C–6–C
1" = 30'

CONTRACTORS PROVIDED DIRECTIONAL DRILL LOG

15' DRILL PIPE JOINT LENGTH | CORNERSTONE BUSINESS, INC | AS-BUILT PROFILE

JOINT No.	PITCH %	DEPTH	ENTRY
1	25.5	2'-2"	
2	19.7	5'-3"	
3	17.5	8'-1"	
4	14.3	10'	
5	14.9	10'-8"	
6	15.2	11'-4"	
7	12.4	13'-6"	
8	8.4	14'-3"	
9	6	14'-2"	
10	7	13'-10"	C/L WATER
11	5.8	14'	
12	2.7	15'-10"	
13	0	16'-1"	
14	1.4	16'-3"	
15	2.7	16-1"	
16	4.9	15'-7"	
17	6.9	13'-8"	
18	8.9	12'	
19	11.2	10'-11"	
20	13	9'-7"	
21	15.2	6'-4"	
22	12.7	4'-9"	
23	12.5	2'-4"	EXIT

58262
Wigmore St.
Buckman St. to Longbranch Creek

NO.	BY	DATE	SYMBOL	REVISIONS
6.				
5.				
4.				
3.				
2.				
1.				

SURVEY DATA:	BOOK NO.	BY	DATE	PGS.	BY	DATE
SURVEYED				ALIGNMENT CHECKED		
GRADES CHECKED				RIGHT-OF-WAY CHECKED		
BENCHMARKS				STRUCTURE NOTATION CHECKED		

DESIGNER:	EA
DRAWN BY:	SB
DATE:	Mar. 2009
CHECKED BY:	EA
DATE:	Mar. 2009

DESIGN ENGINEER
Ejaz Ahmad, P.E.
FLORIDA REGISTRATION NO.
P.E. 19893

JEA Building Community

PROJECT NO.	1011549
DATE:	May 2009
SCALE:	1" = 20'

WIGMORE STREET
BUCKMAN ST to LONGBRANCH CREEK
FORCE MAIN REPLACEMENT

NO. SHEETS	20
SHEET NO.	9
DRAWING NO.	C-6A

Nov 23, 2009 - 1:05pm G:\07-187\07-187-02\Wigmore Street\6-19-09\As-Built- Final Wigmore Street\11-23-09\dwg\WIGMORE STREET- C-6A.dwg