EXISTING	NEW	DESCR
		BOUNDARIE BENCHMAR
		SITE PROPE
		ADJACENT I
		BUILDING SI PARKING SE
		SITE TEXT
10	10	PARKING CO
		TOPOGRAP
	<del></del>	INDEX CON
	11 <sup>50</sup>	INTERVAL C
311.5 x	X1 <sup>50</sup>	SPOT ELEVATOR OF CUR
311.5 TC x 311.5 TW x	× × 1 <sup>50TW</sup>	TOP OF WA
311.5 BW x	11 <sup>508W</sup>	BOTTOM OF
— · · · - · · · —	,,	STREAM
		STREAM BU
· ·		100 YEAR FL
		BUILDING
		BUILDING
		RETAINING T STAIRS
		EDGE OF PA
		ROAD CENT
		FRONT OF C
		BACK OF CL
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		SIDEWALK
		BIKE PARKII
1	1	HANDICAP F
5.	5.	MATERIAL
	A	CONCRETE
		RIPRAP
		ASPHALT
		EC-2 MATTIN
\(\psi\) \(\		EC-3 MATTIN WETLAND
	~~~~~	TREELINE
X	X	FENCE
		UTILITY
-0-	-0-	UTILITY POL
	Φ	GUY WIRE OVERHEAD
OHU UGU	—— OHU —— —— UGU ——	UNDERGRO
UGU	— UGT —	UNDERGRO
	— UGE —	UNDERGRO
		STORM
		STORM MAN
		DROP INLET
RD		STORM SEV
		ROOF DRAIN
		SANITARY SANITARY N
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		WATER
W	W	WATER LINE
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———— GAS ————	——— GAS ———	GAS LINE
		EASEMENTS
	<del></del>	CONSTRUC
		GRADING ACCESS
		SIGHT DIST
· · ·	· ·	UTILITY
		STORMWAT
		STORMWAT
	····	DRAINAGE SANITARY
		WATERLINE
·		GASLINE

EGEND			OWNER
EXISTING	NEW	DESCRIPTION	50-144: Southern Ventures Inc 50-143: Southern Vector, Inc. 50-17 1522 East High, LLC 410 Ednam Drive P.O. Box 5548 & 50-18: 1940 Blue Ridge Road Charlottesville, VA 22901 Charlottesville, VA 22905 Charlottesville, VA 22903
		BOUNDARIES	DEVELOPER Seven Development
		BENCHMARK SITE PROPERTY OR ROW LINE	310 Old Ivy Way, Suite 204 Charlottesville, VA 22903
		ADJACENT PROPERTY OR ROW LINE BUILDING SETBACK	PLAN PREPARATION Shimp Engineering, P.C.
<u> </u>		PARKING SETBACK	912 E High Street Charlottesville, VA 22902
10	10	SITE TEXT  PARKING COUNT	(434)227-5140 PROPERTY ADDRESS
		TOPOGRAPHY	0 E High Street
		INDEX CONTOUR	Charlottesville, VA 22901  ZONING
311.5 x		INTERVAL CONTOUR  SPOT ELEVATION	The zoning for TMP 50-144 are as follows, per a determination by City Zoning:  50-143: R-1S  50-17 & 50-18: CC Central City Corridor
311.5 TC x	11 <sup>507C</sup>	TOP OF CURB ELEVATION	Portion of 50-144 (12.8 AC): B-1 Portion of 50-144 (4.4 AC): B-3
311.5 TW x		TOP OF WALL ELEVATION	Portion of 50-144 (0.04 AC): CC Central City Corridor
311.5 BW x	x <sup>11</sup>	BOTTOM OF WALL ELEVATION STREAM	SOURCE OF TITLE DB 426 PG 282
		STREAM BUFFER	BENCHMARK
		100 YEAR FLOODPLAIN	NAVD 88  SOURCE OF BOUNDARY AND TOPOGRAPHY
		BUILDING	ALTA survey provided by Lotts & Associates, P.C., July 7, 2022  ALTA survey for TMP 50-17 & 50-18 provided by Foresight Survey, P.C., February 14, 2023
		BUILDING RETAINING WALL	Two (2)-ft interval contours provided by LiDAR, Virginia Geographic Information Network, 2016
		STAIRS	FLOODZONE  1. FEMA flood insurance rate map (community panel 51003C0287D & 51003C0289D), effective date February 4, 2005 shows this
		EDGE OF PAVEMENT	property is within Zone AE Regulatory Floodplain. FEMA letter of map revision (LOMR 21-03-0301P), effective date March 16, 2022, established floodway as shown in this site plan.
		ROAD CENTERLINE FRONT OF CURB	<ol> <li>Field stakeout of floodway limits shall be completed prior to the start of construction for city inspection.</li> <li>WATER &amp; SANITARY SERVICES</li> </ol>
		BACK OF CURB	1. All materials used for water and sanitary sewer service lines are to comply with requirements as outlined in both the BOCA
50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0.50.50.50 \$0.50.50.50 \$0.50.50.50	CG-12 TRUNCATED DOME	Code and the regulations used by the Department of Utilities for the City of Charlottesville.  2. All waterline shut downs must be coordinated with and performed by the City. Developer must hand out notices to affected
		SIDEWALK BIKE PARKING	customers at least 48 hours in advance. 3. Per the Virginia Department of Health Waterworks Regulations (Part II, Article 3, Section 12 VAC 5-590 through 630), all
		HANDICAP ACCESSIBLE AISLE	buildings that have the possibility of contaminating the potable water distribution system (hospitals, industrial sites, breweries, etc.) shall have a backflow prevention device installed within the facility. This device shall meet specifications of
(L	G	HANDICAP PARKING	the Virginia Uniform Statewide Building Code, shall be tested in regular intervals as required, and test results shall be submitted to the Regulatory Compliance Administrator in the Department of Utilities.
		MATERIAL	4. All buildings that may produce wastes containing more than one hundred (100) parts per million of fats, oil, or grease shall install a grease trap. The grease trap shall meet specifications of the Virginia Uniform Statewide Building Code, maintain
		CONCRETE RIPRAP	records of cleaning and maintenance, and be inspected on regular intervals by the Regulatory Compliance Administrator in the Department of Utilities.
		ASPHALT	<ol> <li>Please contact the Regulatory Compliance Administrator at 970-3032 with any questions regarding the grease trap or backflow prevention devices.</li> </ol>
		EC-2 MATTING	Demands:
v v v v		EC-3 MATTING WETLAND	Water: 245 residential units, Max = 29,400 gph, Peak = 44,100 gph
* * * * * *	~~~~~	TREELINE	Sewer: 245 residential units = 62,700 gal/day
X	X	FENCE	CRITICAL SLOPES
		<u>UTILITY</u> UTILITY POLE	There are critical slopes within the project area. No disturbance proposed.
-O-	<b>-</b> ○-	GUY WIRE	GENERAL NOTES  1. The information and data shown or indicated with respect to the existing underground utilities at or contiguous to the site are
— OHU —	—— OHU ——	OVERHEAD UTILITY	based on information and data furnished to the owner and engineer by the owners of such underground facilities or others.  The owner or engineer shall not be responsible for the accuracy or completeness of such information or data. The contractor
— UGU ——	—— UGU ——	UNDERGROUND UTILITY	shall have full responsibility for confirming the accuracy of the data, for locating all underground utilities, for coordination of the work with owners of such underground utilities during construction, for the safety and protection thereof and repairing any
	—— UGT —— —— UGE ——	UNDERGROUND TELEPHONE UNDERGROUND ELECTRIC	damage thereto resulting from the work. All of these conditions shall be met at no additional cost to the owner. The contractor shall contact "Miss Utilities" of Virginia at 1-800-552-7001 prior to the start of work.
4.5	4 3	STORM	<ol> <li>When working adjacent to existing structures, poles, etc., the contractor shall use whatever methods that are necessary to protect structures from damage. Replacement of damaged structures shall be at the contractor's expense.</li> </ol>
		STORM MANHOLE	<ol> <li>The contractor shall be responsible for protecting all existing site structures from damage and coordinating work so that the owner can make necessary arrangements to modify/protect existing structures from damages.</li> </ol>
		DROP INLET STORM SEWER	<ol> <li>The contractor shall be responsible for notifying all utility owners, adjacent land owners whose property may be impacted and the Virginia Department of Transportation prior to completing any off-site work.</li> </ol>
RD	RD	ROOF DRAIN	<ol> <li>Contractor shall notify and coordinate all work involving existing utilities with utility owners, at least 72 hours prior to the start of construction.</li> </ol>
		SANITARY	6. Contractor shall immediately report any discrepancies between existing conditions and contract documents to the owner and
		SANITARY MANHOLE SANITARY SEWER MAIN	engineer.  7. Contractor shall submit for the approval of the owner submittals of all specified materials listed in the plans, to include shop drawings, manufacturer's specifications and laboratory reports, the owner's approval of submittals will be general and will not
S	—— S ——	SANITARY SEWER MAIN SANITARY SEWER LATERAL	drawings, manufacturer's specifications and laboratory reports. the owner's approval of submittals will be general and will not relieve the the contractor from the responsibility of adherence to the contract and for any error that may exist.
		WATER	<ol> <li>All bare areas shall be scarified, limed, fertilized, seeded and mulched.</li> <li>All trees, saplings, brush, etc. shall be removed from within the right of way and the drainage easements.</li> </ol>
W	W	WATER LINE WATER SERVICE LINE	10. Retaining walls require separate building permits.  UTILITY MARKINGS
$\bigcirc$	— ws —	WATER SERVICE LINE WATER METER	Miss Utility Ticket Number B026501443 - September 24, 2020
		WATER METER VAULT	<b>SIGNS</b> All signs and pavement markings shall conform with the latest edition of the MUTCD Guidelines.
<b>T</b>	<b>*</b>	FIRE HYDRANT	DESIGN STANDARDS
CAS		FIRE DEPARTMENT CONNECTION  GAS LINE	Buildings to comply with most current Virginia Construction Code Construction Type: Type 5A
GAS	GAS	EASEMENTS	Occupancy: R-2 RIVANNA WATER & SEWER AUTHORITY NOTES
	····	CONSTRUCTION	1. All materials and methods of construction shall comply with the latest version of the General Water and Sewer Design and
		GRADING ACCESS	Construction Standards – Version 1.0, adopted in December 2015, except as modified below or modified in special notes.  2. RWSA shall approve all construction materials and methods of construction. A preconstruction conference shall be held with
		SIGHT DISTANCE	RWSA prior to the start of any work.  3. The contractor shall be responsible for notifying Miss Utility (1-800-552-7001).  A RWSA Engineer (Victoria Fort at (434) 977-2970 eyt. 205) shall be notified three business days prior to the start of construction.
	· · ·	UTILITY	<ol> <li>RWSA Engineer (Victoria Fort at (434) 977-2970 ext. 205) shall be notified three business days prior to the start of construction.</li> <li>All work is subject to inspection by RWSA staff. No tie-ins to the existing system shall be made without coordination with and the presence of RWSA staff. No work shall be conducted on RWSA facilities on weekends or holidays without special written permission</li> </ol>
		STORMWATER ACCESS	from RWSA.  6. For sanitary sewer line construction: RWSA may require bypass pumping for tie-ins to the existing system. All doghouse manholes must
		STORMWATER ACCESS  DRAINAGE	<ul> <li>For sanitary sewer line construction: RWSA may require bypass pumping for tie-ins to the existing system. All dognouse mannoles must be pressure-tested before a connection is made to the system.</li> <li>The location of existing utilities as shown on the plans is from data available at the time of design and is not necessarily complete or</li> </ul>
		SANITARY	accurate. The Contractor shall be responsible for the verification of the location, size and depth of all existing utilities, both surface and subsurface. The Contractor shall immediately notify the Engineer of any discrepancies between the plans and field conditions. The
		WATERLINE	Contractor shall use due diligence to protect all utilities and structures from damage at all times, whether shown on the plans or not.  Damage to any existing utilities shall be repaired by the Contractor to the original condition at no additional cost to the Owner.
	<u> </u>	GASLINE	<ol> <li>Erosion and sediment control facilities shall not be permitted in the RWSA easement without special written permission from RWSA. No grading shall be permitted in the RWSA easement unless permitted otherwise by RWSA in writing.</li> </ol>
			9. No blasting shall be permitted within 100 feet of RWSA facilities without written permission and RWSA approval of the blasting plan.  Ground monitoring during blasting and a pre-blast survey may be required. For blasting within 100 feet of any operative RWSA
			sewerlines, bypass pumping and/or pre- and post-CCTV may be required. RWSA may also require certification from a licensed professional engineer stating that the proposed blasting will not damage any RWSA facilities. Damage to any utilities due to blasting

adequate structural support shall be provided for the existing pipe. The area of the crossing shall be backfilled with compacted 57 stone

permanent connection to the public water system. Approved methods of filling and flushing new water mains will be required to prevent

10. The contractor shall observe minimum separation requirements for utility crossings. When a crossing is made under an existing facility,

13. No permanent structural facilities will be permitted in the RWSA easement. This includes building overhangs, retaining walls, footers for

11. New water main installations shall be pressure tested, chlorinated, flushed and have water samples approved prior to making any

shall be repaired by the Contractor to the original condition at no additional cost to the Owner.

12. All easements for new RWSA facilities shall be recorded prior to placing the new facilities into service.

to the springline of the existing pipe.

any structure, drainage structures, etc. Trees are not permitted in the RWSA easement.

any contamination of the public water system.

**BUILDING HEIGHT** 

Per Sec. 34-457, building height shall be a maximum of 45' in the B-1 zone. Proposed building height: 45', 4 stories

**BUILDING SETBACKS** 

FRONT & REAR: 20' SIDE: 22.5' for a 45' building height as on the side of a lot adjoining a residential district or use, there shall be a side yard of 1' for every 2' of building height of the tallest building on the lot, minimum of 10'

**EXISTING USE** 

Open space, amusement & recreation (note: Rivanna River Company to be removed)

PROPOSED USE

Building GSF = 322,000 SF

Proposed 245 multifamily residential units: (25) efficiencies, (135) 1-bedroom, (85) 2-bedroom units 20 DUA of B-1 zone

LAND USE SCHEDULE

ЛР 50-144			TMP 50-143 [P	Proposed BLA]		TMP 50-17 [Pr	oposed BLA]		TMP 50-18 [
KISTING	Area	%	<b>EXISTING</b>	Area	%	<b>EXISTING</b>	Area	%	<b>EXISTING</b>
ıilding	974 SF	0.1%	Building	0 SF	0%	Building	2,585 SF	26.8%	Building
vement	30,593 SF	3.2%	Pavement	0 SF	0%	Pavement	3,403 SF	35.2%	Pavement
dewalk	499 SF	0.05%	Sidewalk	0 SF	0%	Sidewalk	244 SF	2.5%	Sidewalk
oen Space	921,898 SF	96.6%	Open Space	12,800 SF	100%	Open Space	3,426 SF	35.5%	Open Space
otal=	953,964 SF	(21.9 ac.)	Total=	12,800 SF	(0.249 ac.)	Total=	9,658 SF	(0.221 ac.)	Total=
ROPOSED	Area	%	PROPOSED	Area	%	PROPOSED	Area	%	PROPOSED
uilding	80,514 SF	8.5%	Building	0 SF	0%	Building	0 SF	0%	Building
avement	107,035 SF	11.2%	Pavement	0 SF	0%	Pavement	263 SF	6.3%	Pavement
idewalk	24,250 SF	2.5%	Sidewalk	0 SF	0%	Sidewalk	0 SF	0%	Sidewalk
pen Space	742,165 SF	77.8%	Open Space	13,000 SF	100%	Open Space	3,937 SF	93.7%	Open Space
otal=	953,964 SF	(21.9 ac.)	Total=	13,000 SF	(0.3 ac.)	Total=	4,200 SF (0	0.096 ac.)	Total=

#### LAND DISTURBANCE

7.4 AC land disturbed with this site plan proposal

## PARKING SCHEDULE

Sec. 34-984.-Off-street Parking Requirements

Multifamily Dwellings - 1 parking space per each efficiency, 1- or 2-bedroom unit (25) efficiencies, (135) 1-bedroom, and (85) 2-bedroom units proposed

Total Parking Required = 245 spaces

Sec. 34-977.-Parking Space Dimensions

Up to 30% of the required off-street parking spaces may be designed as compact car spaces Total Parking Required = 245 spaces

30% of 245 spaces = 74 compact spaces

320 parking spaces (includes 16 compact spaces & 10 HC spaces)

Required Bicycle Parking: Sec. 34-881 - Bicycle Storage Facilities Multifamily dwellings: 1 space for every 2 units  $(\frac{1 \text{ Parking Spot}}{2 \text{ Units}} * 245 \text{ units}) = 122.5 = 123 \text{ spaces}$ Total bicycle parking spaces required: 123 bicycle spaces 123 indoor bicycle parking spaces

## FIRE MARSHAL'S NOTES

1. VSFPC 503.3 - Marking Fire Lanes. The location and method of marking fire lanes shall be clearly indicated on the submitted site plan. Fire lanes shall be a minimum of 20 feet in width. Signs and markings to delineate fire lanes as designated by the fire official shall be provided and installed by the owner or his/her agent of the property involved. Fire apparatus roads 20 to 26 feet in width shall be posted or marked on both sides "No Parking - Fire Lane".

2. VSFPC 505.1-The building street number to be plainly visible from the street for emergency responders.

3. VSFPC 506.1 - An approved key box shall be mounted to the side of the front or main entrance.

4. VSFPC 506.1.2 - An elevator key box will be required if the building has an elevator. 5. VSFPC 507.5.4 - Fire hydrants, fire pump test header, fire department connections or fire suppression system control

valves shall remain clear and unobstructed by landscaping, parking or other objects.

6. VSFPC 503.2.1 - Overhead wiring or other obstructions shall be higher than 13 feet 6 inches. 7. SFPC 507.5.1.1 - Hydrant for standpipe system - Buildings equipped with a standpipe system installed in accordance with Section 905 shall have a fire hydrant within 100 feet of the fire department connections. The distance shall be permitted to exceed 100 feet where approved by the fire code official.

8. VSFPC 905.3.1 - If the floor level of the highest story is more than 30 feet above the lowest level of fire department vehicle access, then a Class I standpipe system must be installed in addition to the sprinkler system.

9. VSFPC 912.2.1 - The fire department connection shall be located on the street side of the structure unless otherwise

approved by the fire code official. 10. VSFPC 3312.1 - An approved water supply for fire protection shall be made available as soon as combustible material

arrives on the site. Fire hydrants shall be installed and useable prior to the start of any building construction. 11. All pavement shall be capable of supporting fire apparatus weighing 85,000 lbs.

12. Required vehicle access for fire fighting shall be provided to all construction or demolition sites. Vehicle access shall be provided to within 100 feet of temporary pr permanent fire department connections. Vehicle access shall be provided by either temporary or permanent roads, capable of supporting vehicle loading under all weather conditions. Vehicle access shall be maintained until permanent fire apparatus access roads are available.

13. Buildings four or more stories in height shall be provided with not less than one standpipe for use during construction. Such standpipes shall be installed when the progress of construction is not more than 40 feet in height above the lowest level of fire department access. Such standpipe shall be provided with fire department hose connections at accessible locations adjacent to usable stairs. Such standpipes shall be extended as construction progresses to within one floor of the highest point of construction having secured decking or flooring. Installation of the standpipe shall begin once construction begins on the second (2nd) floor.

CONSTRUCTION & DEMOLITION:

1. VSFPC 310.3: 310.5 - No smoking or vaping within the construction safety fence. No smoking signs shall be posted throughout each building under construction as well as outside the building. Should anyone from the Fire Marshal's office witness smoking/vaping within the construction site, he or she may request a 24 hour Stop Work Order from the City

2. VSFPC 3304.2 - Waste disposal of combustible debris shall be removed from the building at the end of each workday.

3. IFC 1410.1-Access to the building during demolition and construction shall be maintained. 4. VSFPC 3304.6 - Operations involving the use of cutting and welding shall be done in accordance with Chapter 35, of the

Virginia Statewide Fire Prevention Code, addressing welding and hotwork operations.

5. VSFPC 3315.1 -Fire extinguishers shall be provided with not less than one approved portable fire extinguisher at each stairway on all floor levels where combustible materials have accumulated. 6. VSFPC 3310.1 - Required vehicle access for fire fighting shall be provided to all construction or demolition sites. Vehicle

access shall be provided to within 100 feet of temporary or permanent fire department connections, if any. Vehicle access shall be maintained until permanent fire apparatus access roads are available. 7. VSFPC 3311.1 - Where a building has been constructed to a height greater than 50 feet or four (4) stories, at least one

temporary lighted stairway shall be provided unless one or more of the permanent stairways are erected as the

8. No vehicles or machinery of any type, construction materials or construction debris are to be parked, placed, or stored either in front of and within 15 feet of a fire hydrant.

9. VSFPC 3315.1 - Fire extinguishers shall be provided with not less than one approved portable fire extinguisher at each stairway on all floor levels where combustible materials have accumulated.

## **CITY PERMITS**

1. The contractor shall be responsible for obtaining a street cut permit from the City. 2. A Temporary Street Closure Permit is required for closure of sidewalks, parking spaces and roadways and is subject to approval by the City Traffic Engineer. The contractor contact information will be provided with the final plans.

**ELECTRIC/ TELEPHONE/ CABLE TV** 

If feasible, all new service lines for electricity, telephone and cable TV are to be installed underground. Care is to be taken to assure their location does not conflict with any other aspects of the proposed site plan. FIRE FLOW

Minimum fire flow is 1,938 gpm. See sheet C16.

ITE TRIP GENERATION

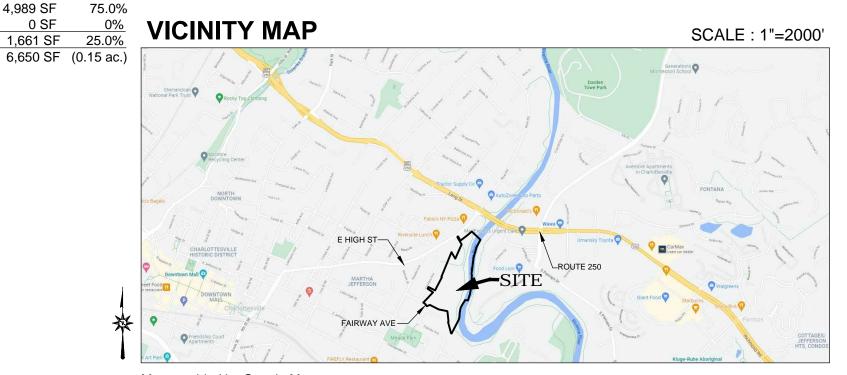
TE TRIF GENERATION										
Use	ITE	IV		AM			PM		Daily	
	Code	Code	In	Out	Total	In	Out	Total	Total	
Multifamily Housing (Mid-Rise)	221	245 Units	23	65	88	66	42	108	1334	

Trip generation reflects AM and PM peak hour traffic as well as weekday traffic.

PRELIMINARY SITE DEVELOPMENT PLAN

## 0 E HIGH STREET

TAX MAP 50 PARCEL 144 PORTION OF TAX MAP 50 PARCEL 17, TAX MAP 50 PARCEL 18, & TAX MAP PARCEL 50 PARCEL 143 CITY OF CHARLOTTESVILLE, VIRGINIA



Map provided by Google Maps

## **SHEET INDEX: TOTAL 17 SHEETS**

COVER

86.3%

3,901 SF

618 SF

Area 0 SF

4,989 SF

0 SF

4,519 SF (0.104 ac.)

TMP 50-18 [Proposed BLA]

**EXISTING CONDITIONS & DEMOLITION** 

**EXISTING CONDITIONS & DEMOLITION** 

SITE LAYOUT OVERVIEW

SITE LAYOU

SITE LAYOUT

**GRADING & UTILITY PLAN** 

C8 GRADING & UTILITY PLAN

**C9** PRELIMINARY UTILITY PROFILES

C10 SWM CONCEPT

C11 VRRM MAPS & CALCULATIONS

C12 LANDSCAPE PLAN

C13 LANDSCAPE PLAN

C14 LIGHTING PLAN

C15 SITE DETAILS

C16 SITE EXHIBITS & DETAILS

C17 WATER & SANITARY DEMAND CALCULATIONS

PRELIMINARY SITE DEVELOPMENT PLAN

CHARLOTTESVILLE VA, 22902 JUSTIN@SHIMP-ENGINEERING.COM

## 0 EAST HIGH STREET

CITY OF CHARLOTTESVILLE, VIRGINIA SUBMISSION:

2022.08.05 **REVISION:** 2022.12.07

912 E. HIGH ST.

2023.02.17

**APPROVALS** 

Director OF NEIGHBORHOOD

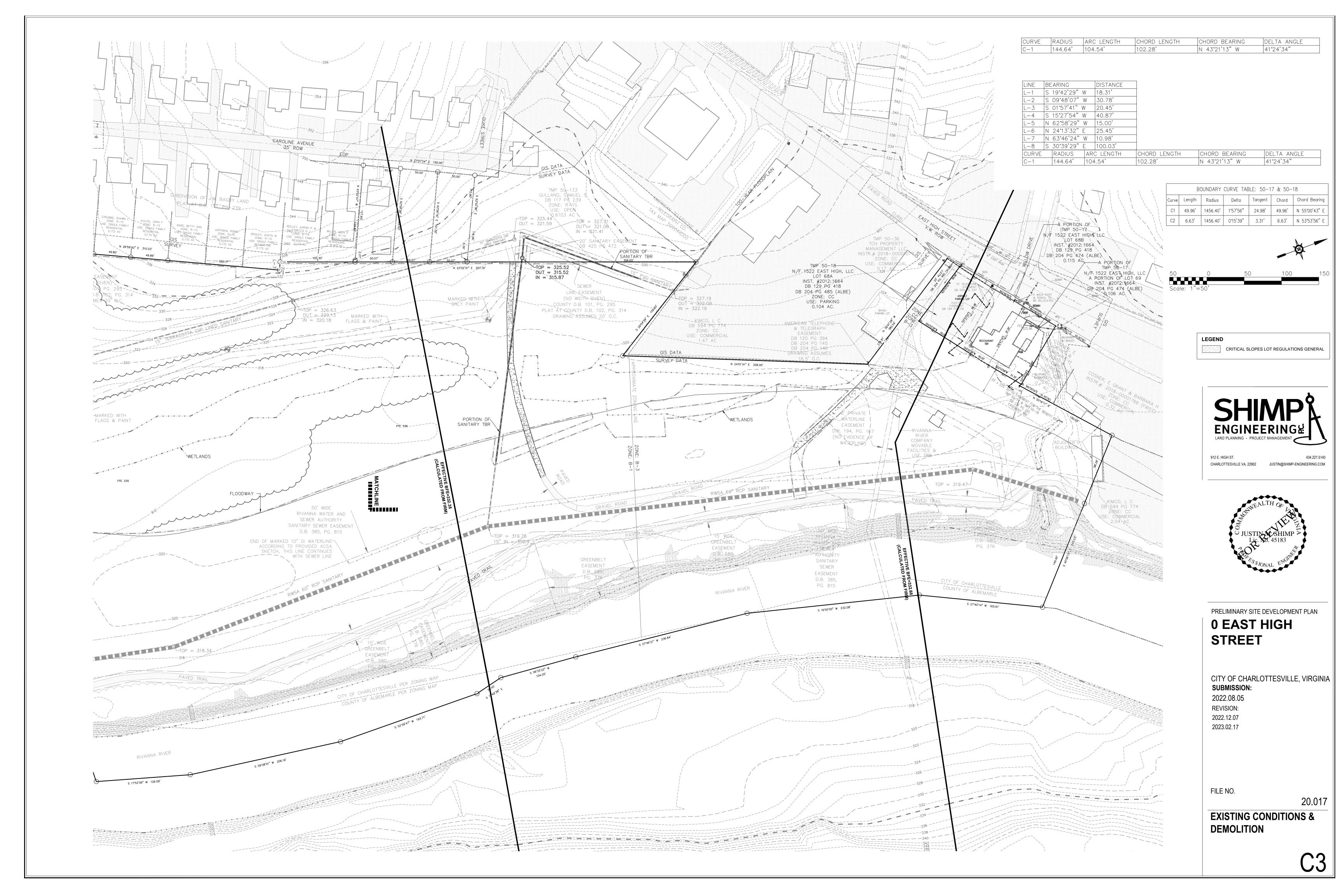
DEVELOPMENT SERVICES

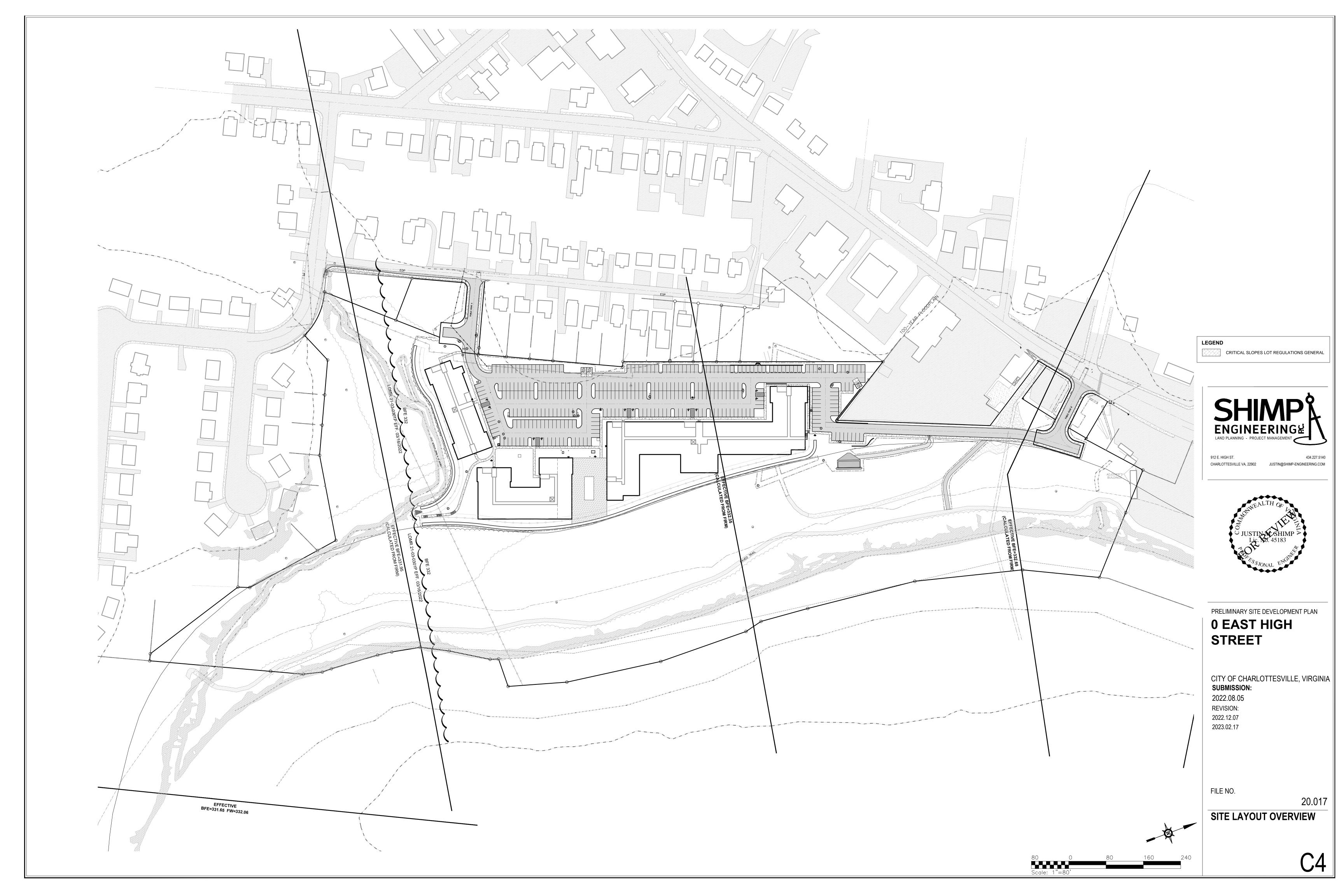
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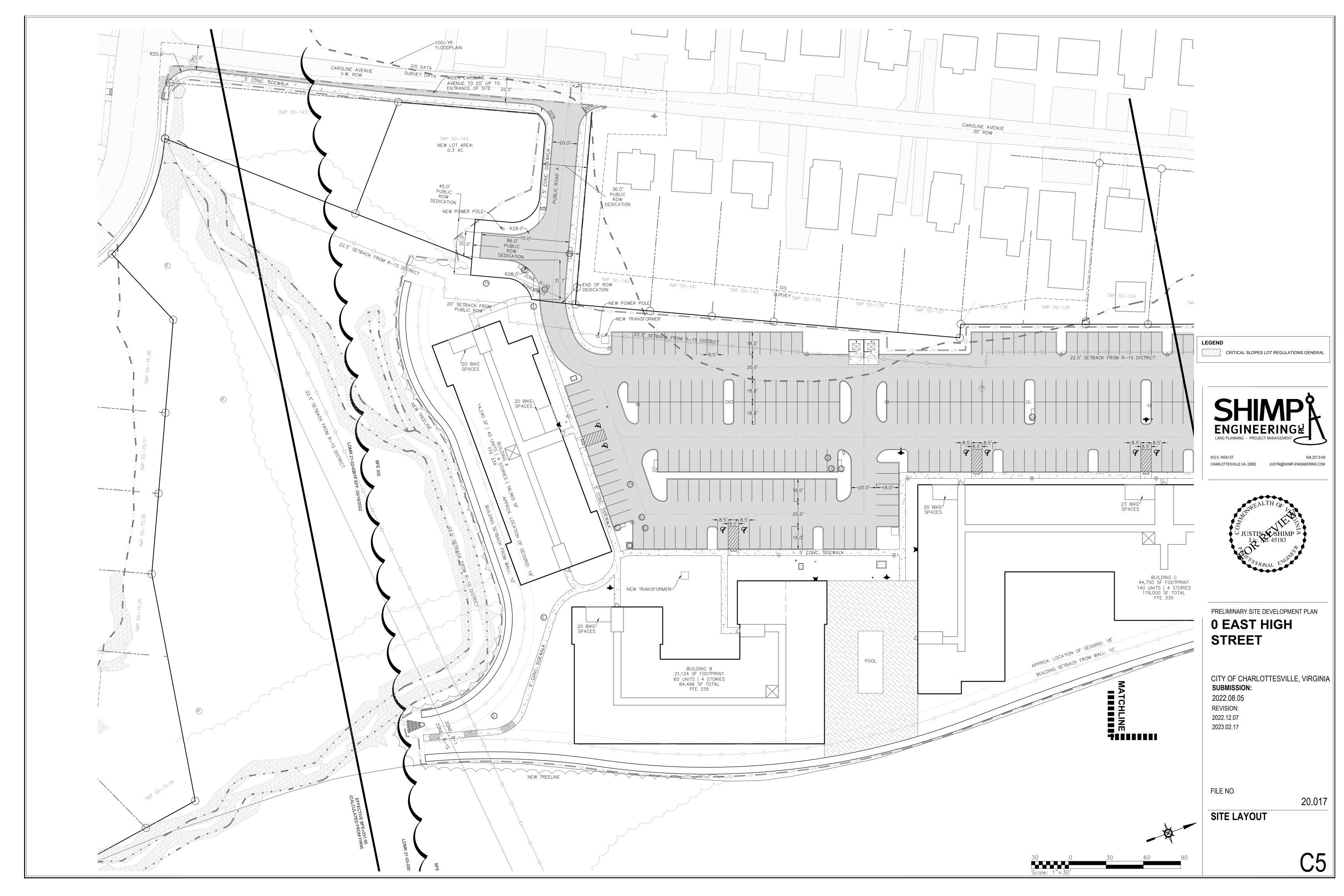
**COVER SHEET** 

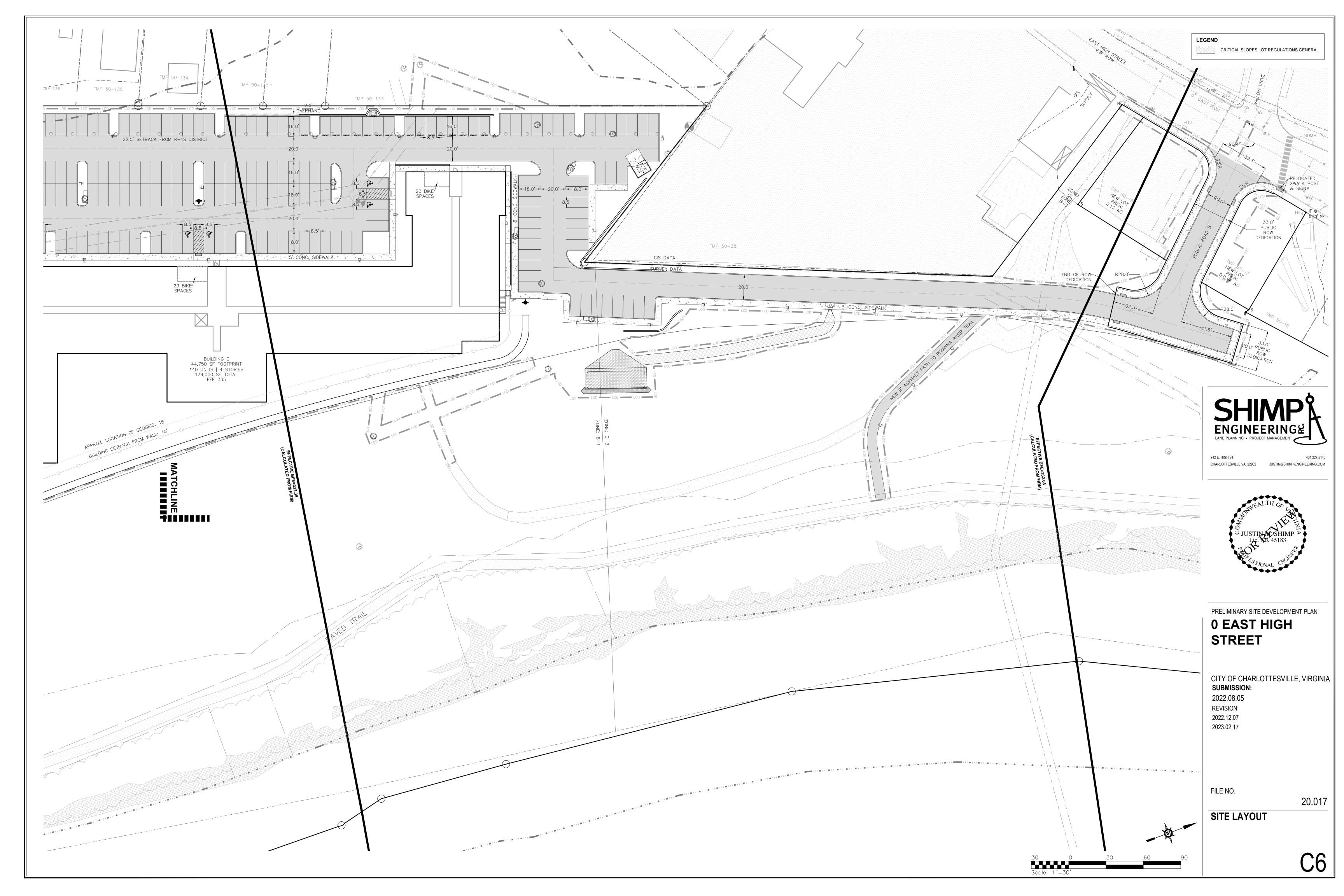
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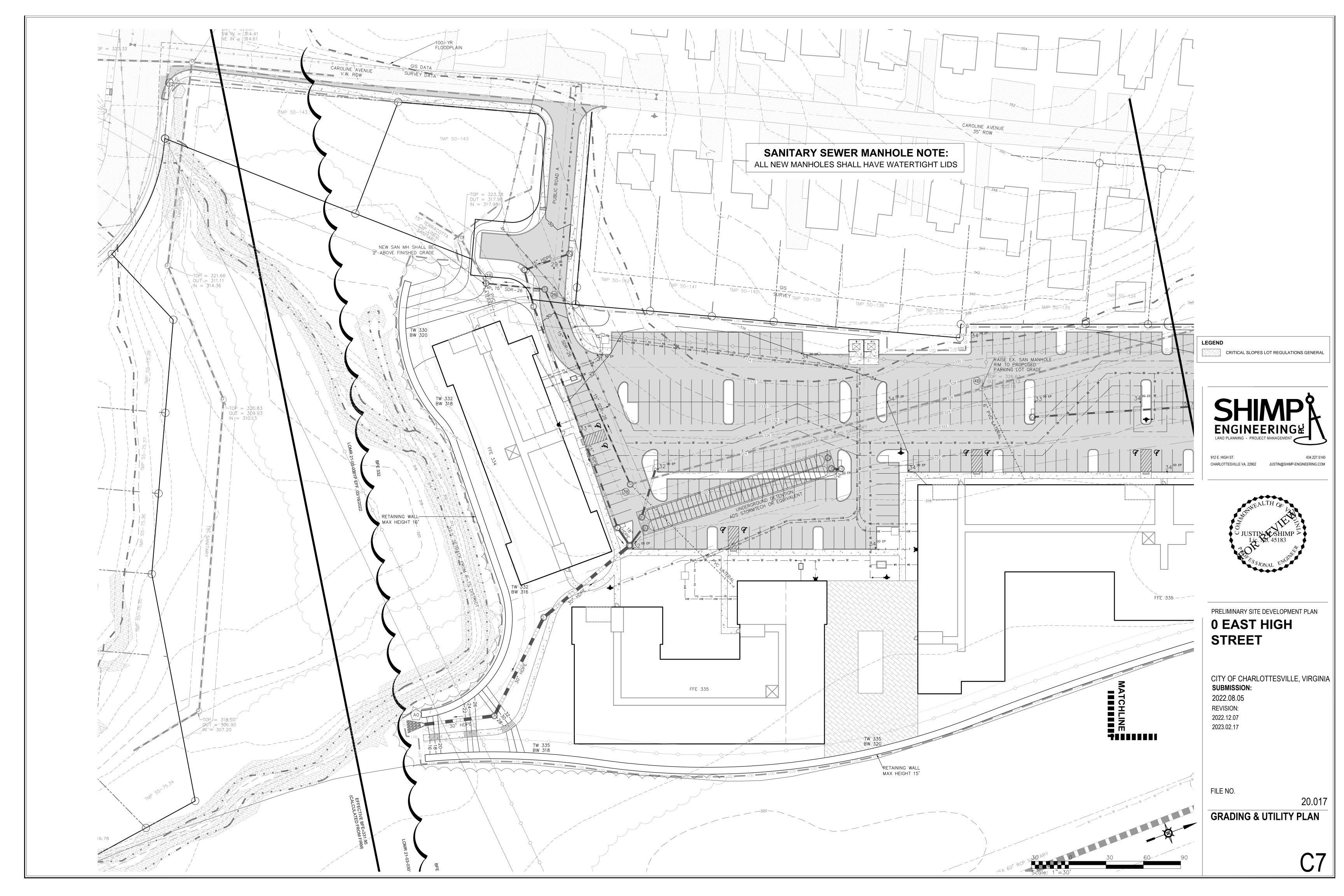


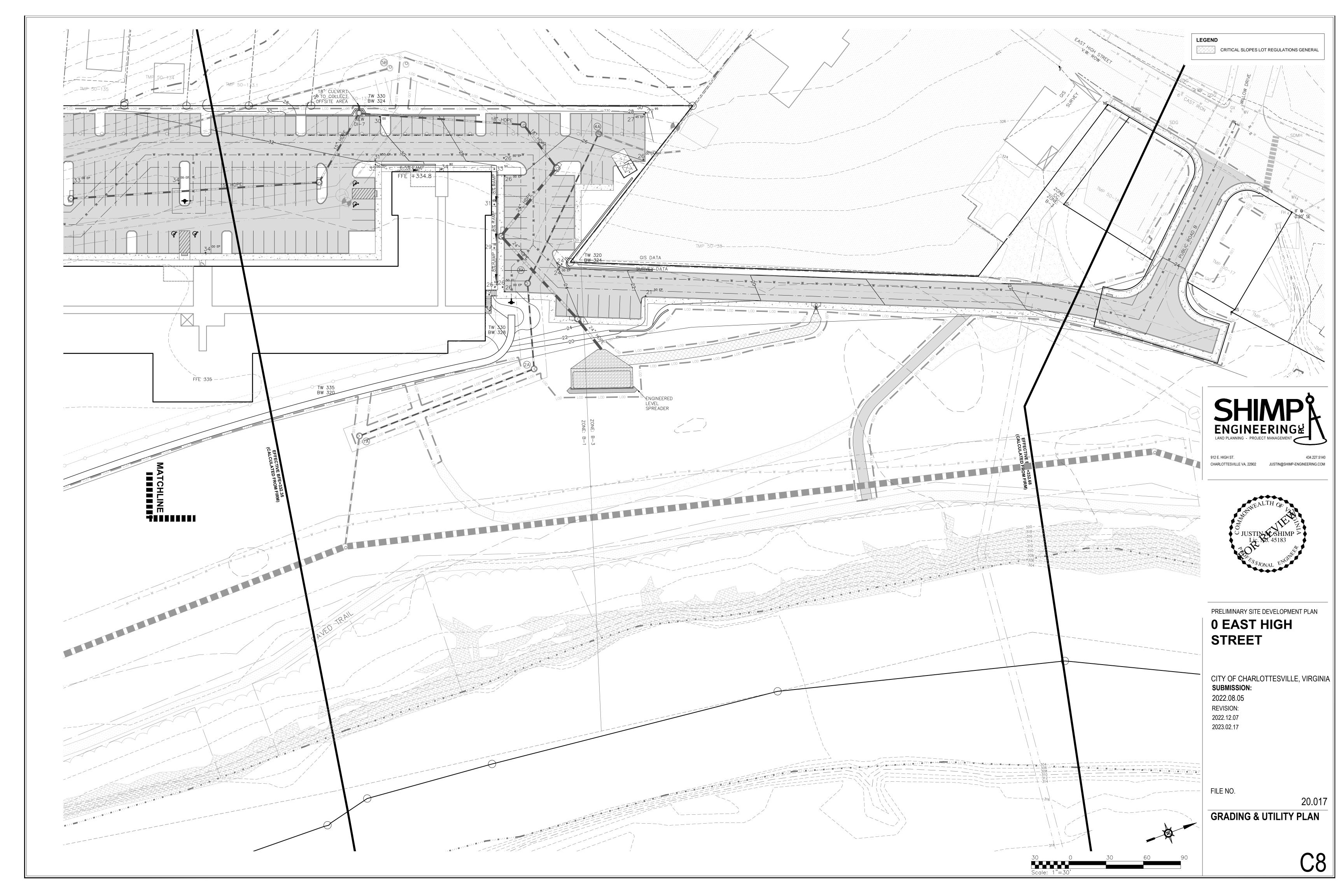


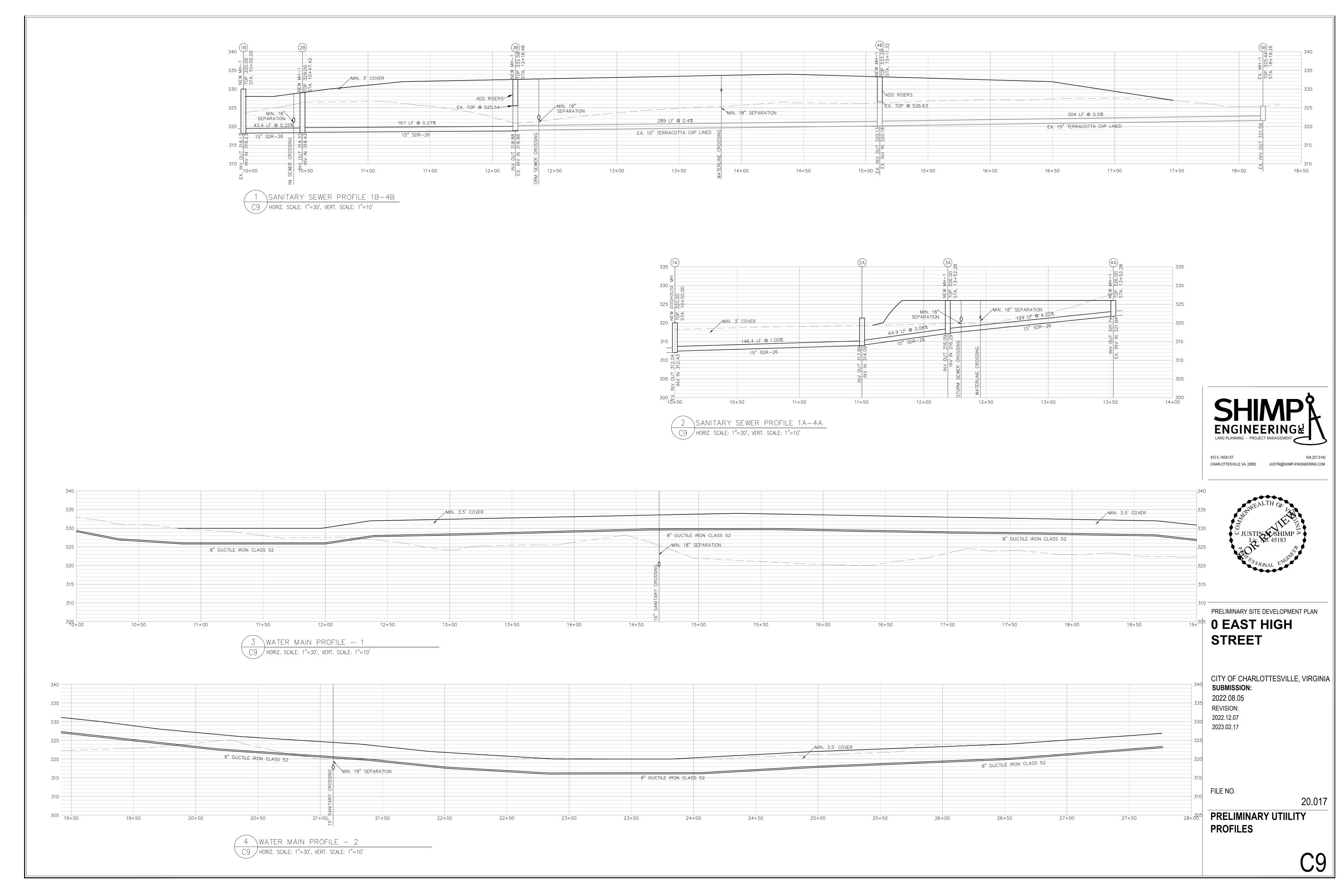


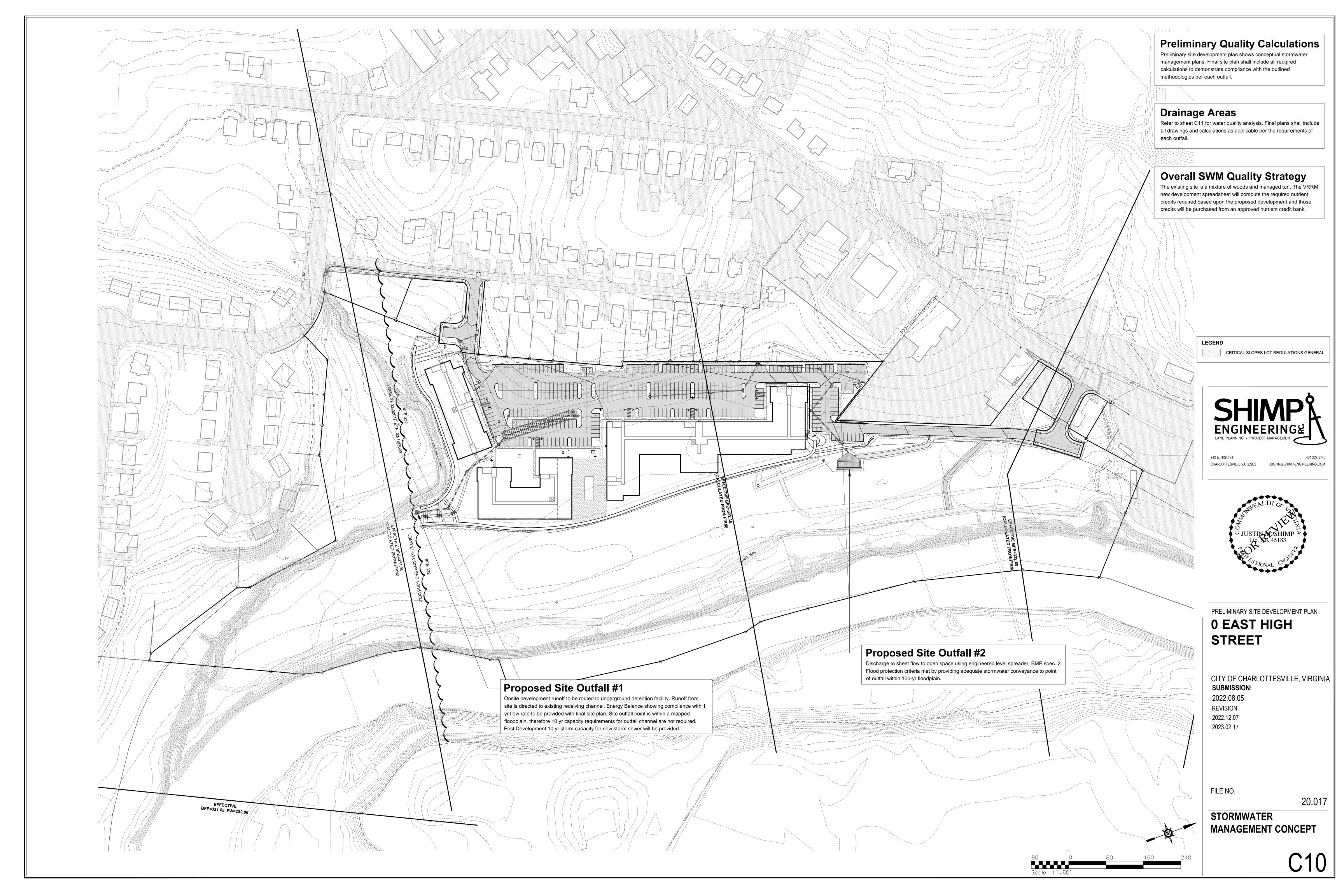


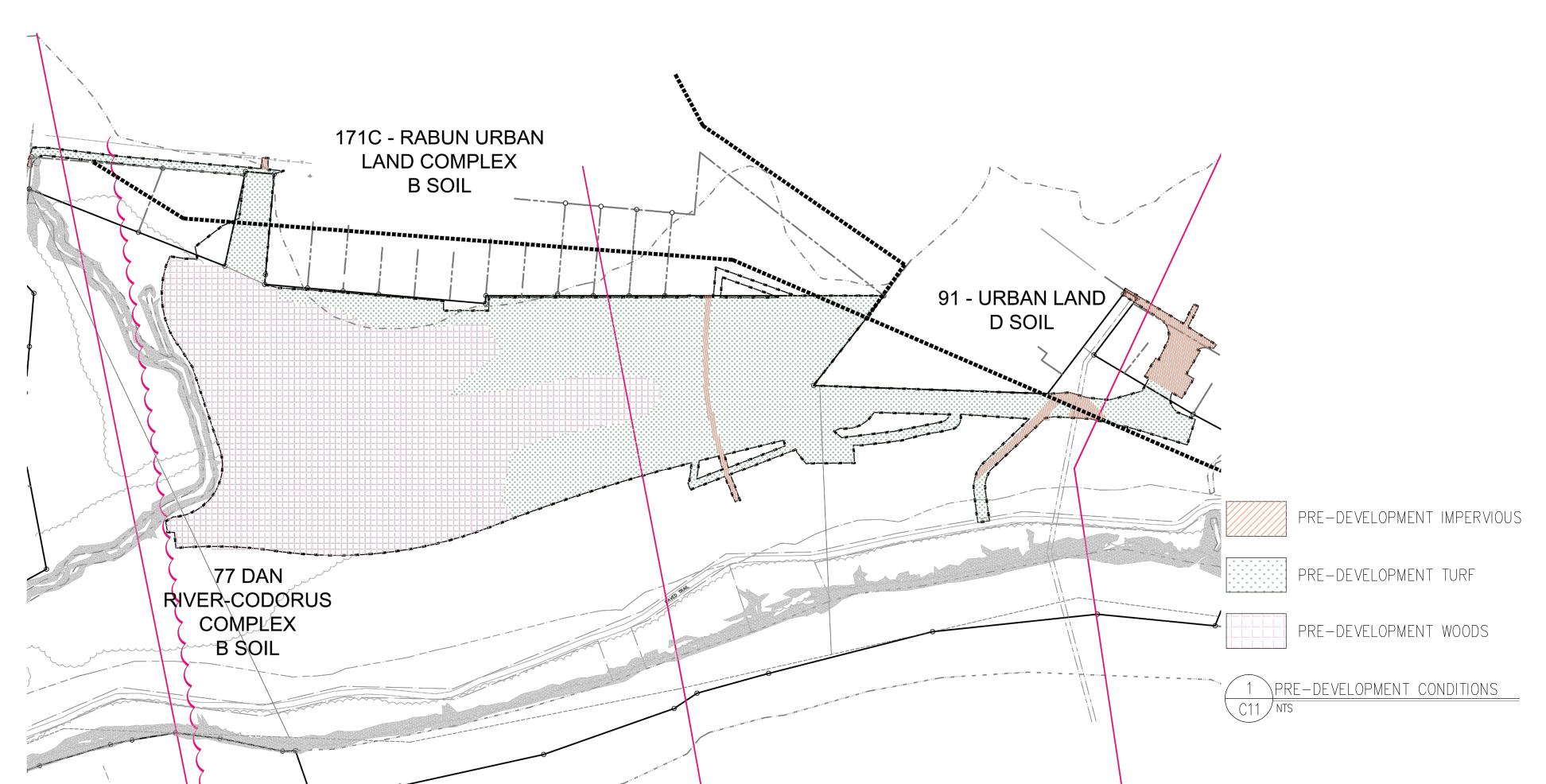




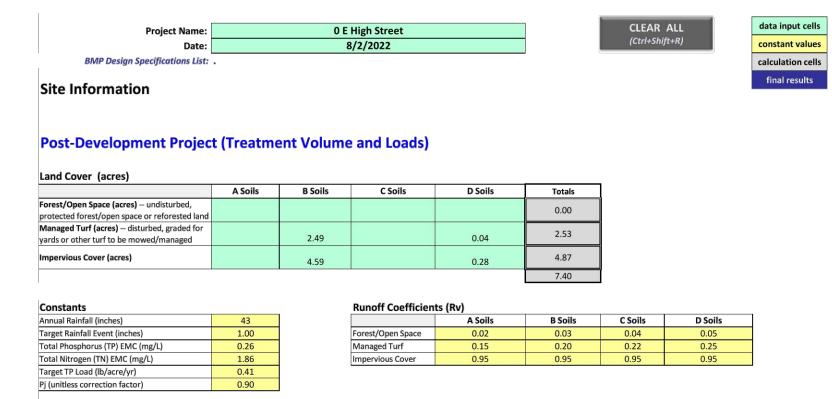






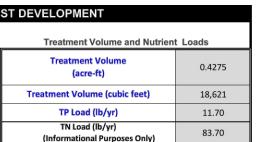




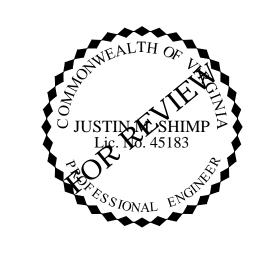


	rost Bevelopment	. Requirement ic	A Site Aleu	
	TP Load Reduction Re	quired (lb/yr)	8.67	
LANI	D COVER SUMMARY PO	OST DEVELOPME	NT	
Land Cover Summary		Treatment	Volume and Nutrient	Loads
				· · · · · · · · · · · · · · · · · · ·

Land Cover Summary	
Forest/Open Space Cover (acres)	0.00
Weighted Rv (forest)	0.00
% Forest	0%
Managed Turf Cover (acres)	2.53
Weighted Rv (turf)	0.20
% Managed Turf	34%
Impervious Cover (acres)	4.87
Rv (impervious)	0.95
% Impervious	66%
Site Area (acres)	7.40
Site Rv	0.69







PRELIMINARY SITE DEVELOPMENT PLAN

O EAST HIGH

STREET

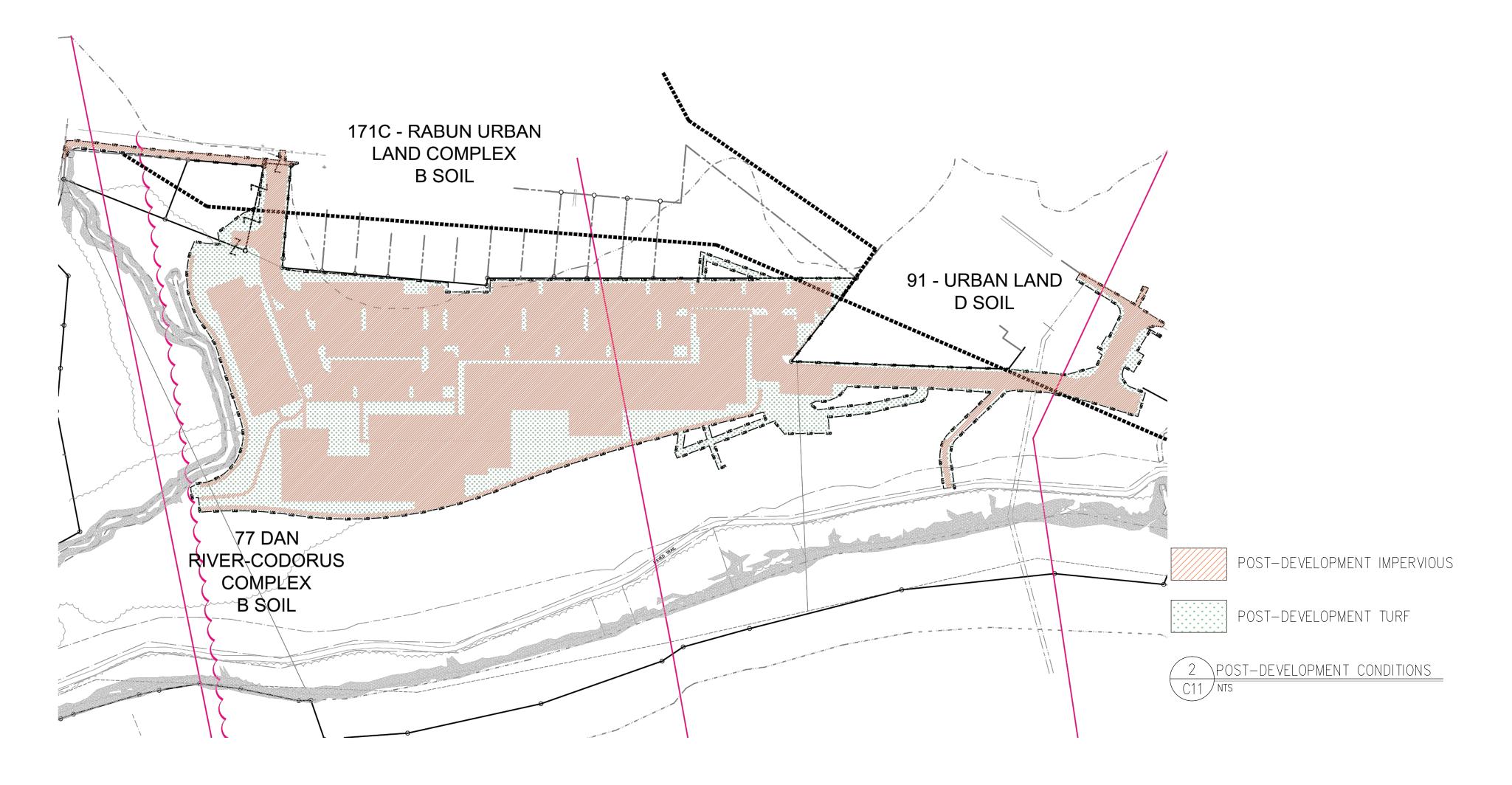
CITY OF CHARLOTTESVILLE, VIRGINIA **SUBMISSION:** 2022.08.05

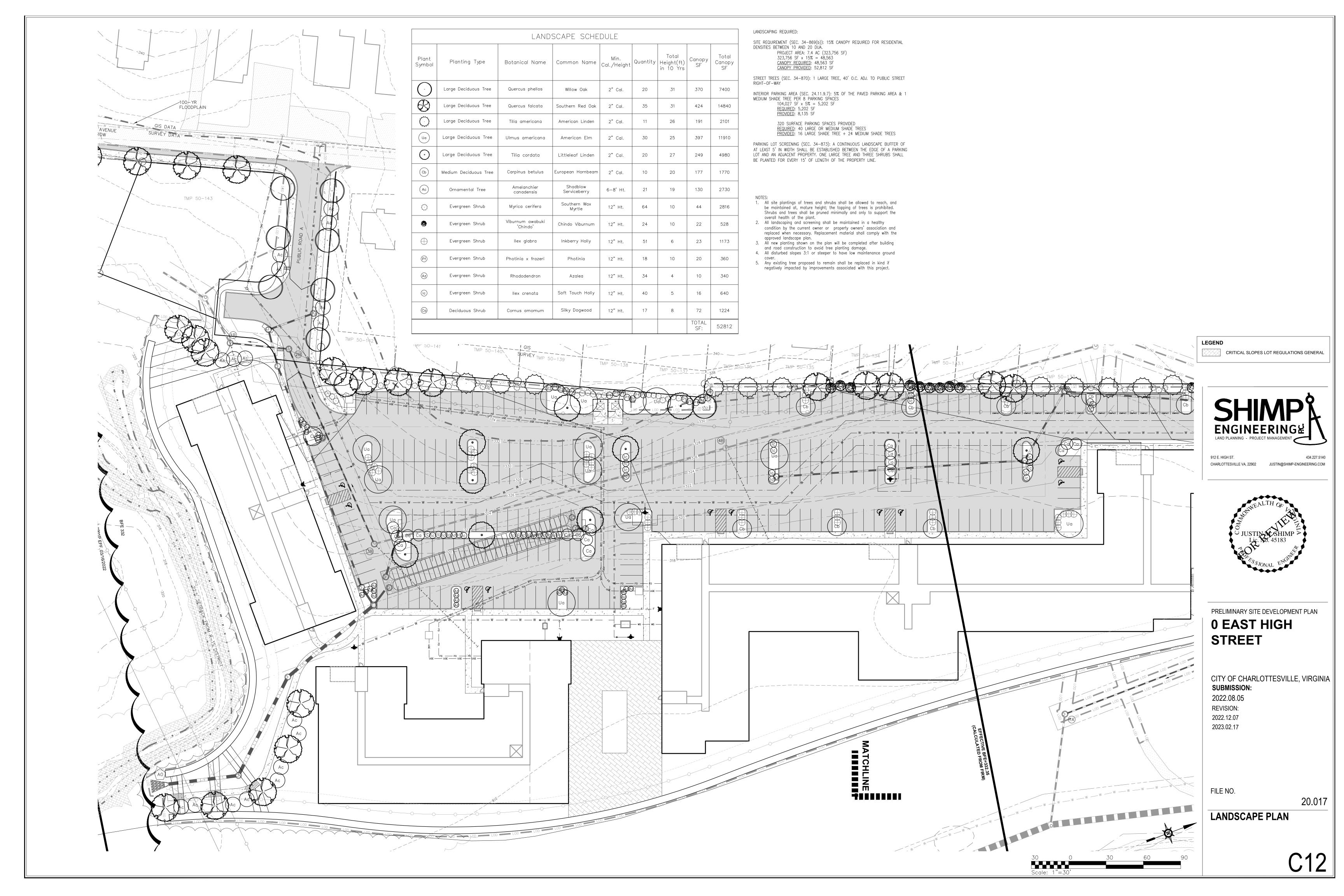
2022.08.05 REVISION: 2022.12.07 2023.02.17

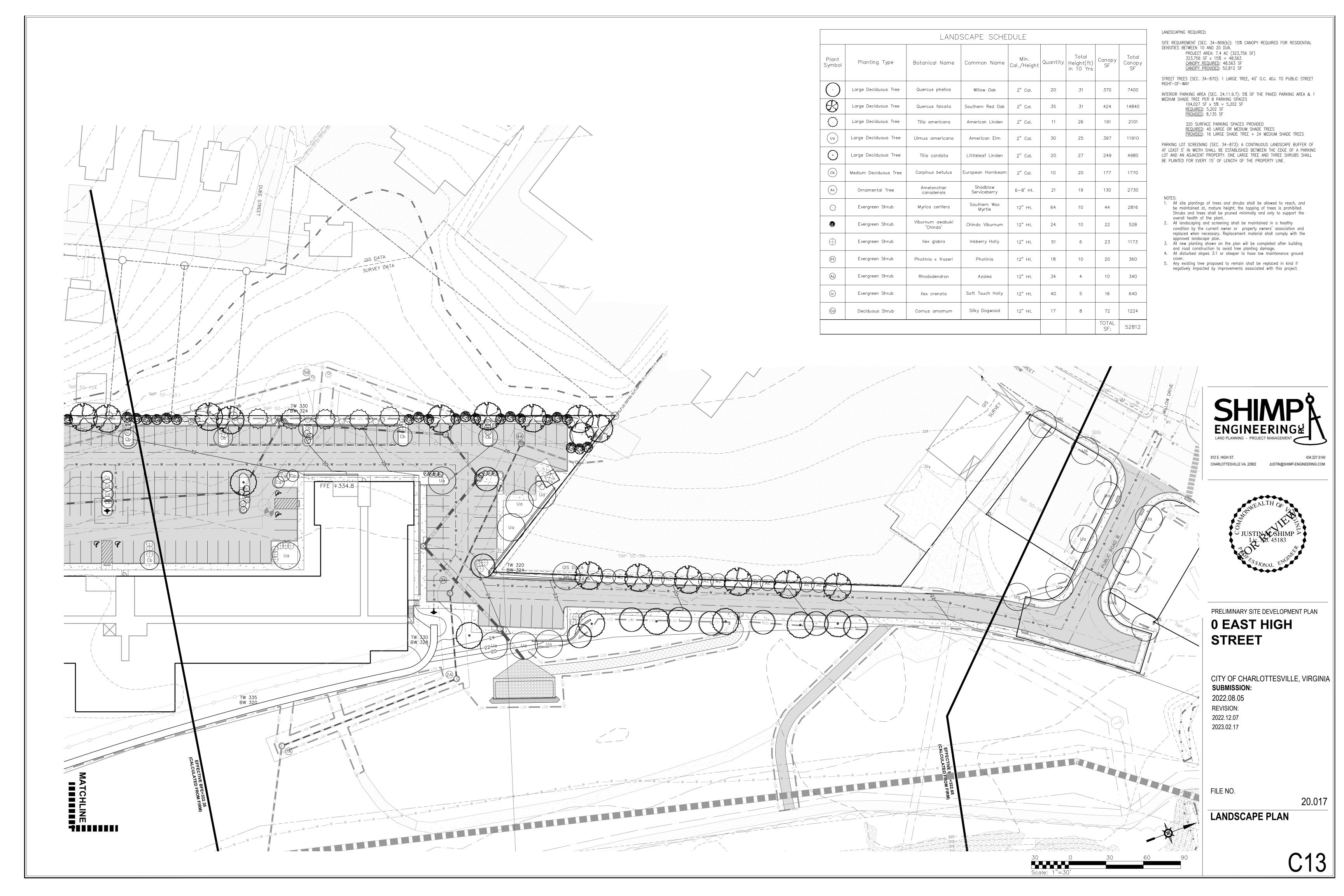
FILE NO.

20.017

VRRM MAPS & CALCULATIONS



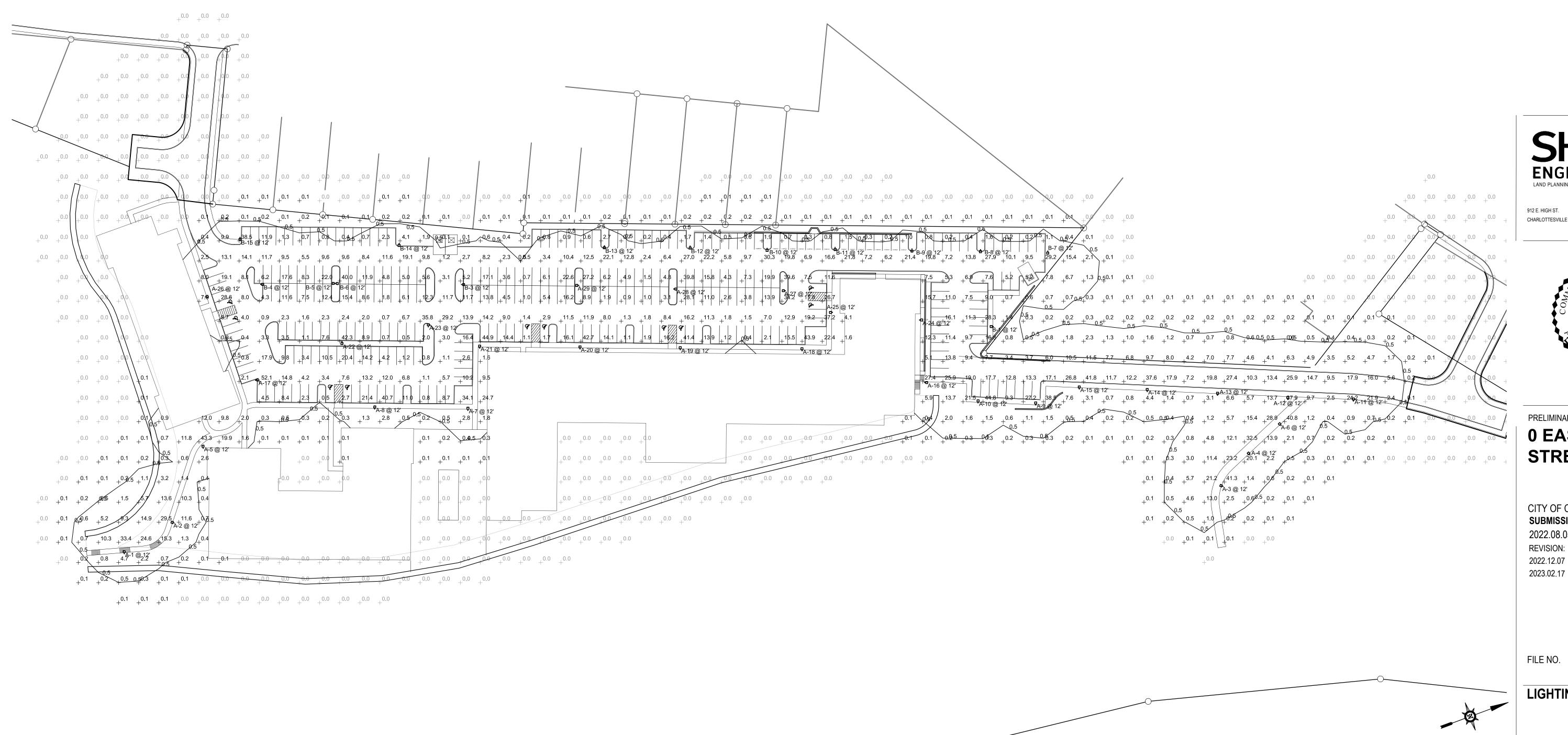




Schedule	Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number of Lamps	Filename	Wattage	Light Loss Factor			
	А	29	SIGNIFY GARDCO	ECF-L-96L-1.4A-WW-G2-4	EcoForm Area LED ECF - Large, 96 LED's, 3000K CCT, TYPE 4 OPTIC, No Shield	(6) LEDGINE SLD LIGHT ARRAY(S) DRIVEN AT 1370mA	ecf-I-96I-1-4a-ww-g2-4 .ies	422.0	1.00			
	В	15	SIGNIFY GARDCO	ECF-L-96L-1A-WW-G2-4-HIS	EcoForm Area LED ECF - Large, 96 LED's, 3000K CCT, TYPE 4-HIS OPTIC, House-side Internal Shielding	(6) LEDGINE SLD LIGHT ARRAY(S) DRIVEN AT 1050mA	ecf-I-96I-1a-ww-g2-4-h is.ies	316.4	1.00			

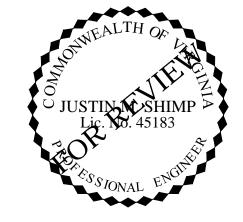
Lighting Notes:

- 1. Per Sec. 34-1003(c) of the Charlottesville Zoning Ordinance, pole mounted fixtures shall be mounted at a height of 12' from the finished grade which includes the pole base, outside of the public ROW and immediately adjacent to low-density
- 2. Each outdoor luminaire equipped with a lamp that emits 3,000 or more initial lumens shall be a full cutoff luminaire and shall be arranged or shielded to reflect light away from adjoining residential districts and away from adjacent roads. The spillover of lighting from luminaires onto public roads and property in residential or rural areas zoning districts shall not exceed one half footcandle.





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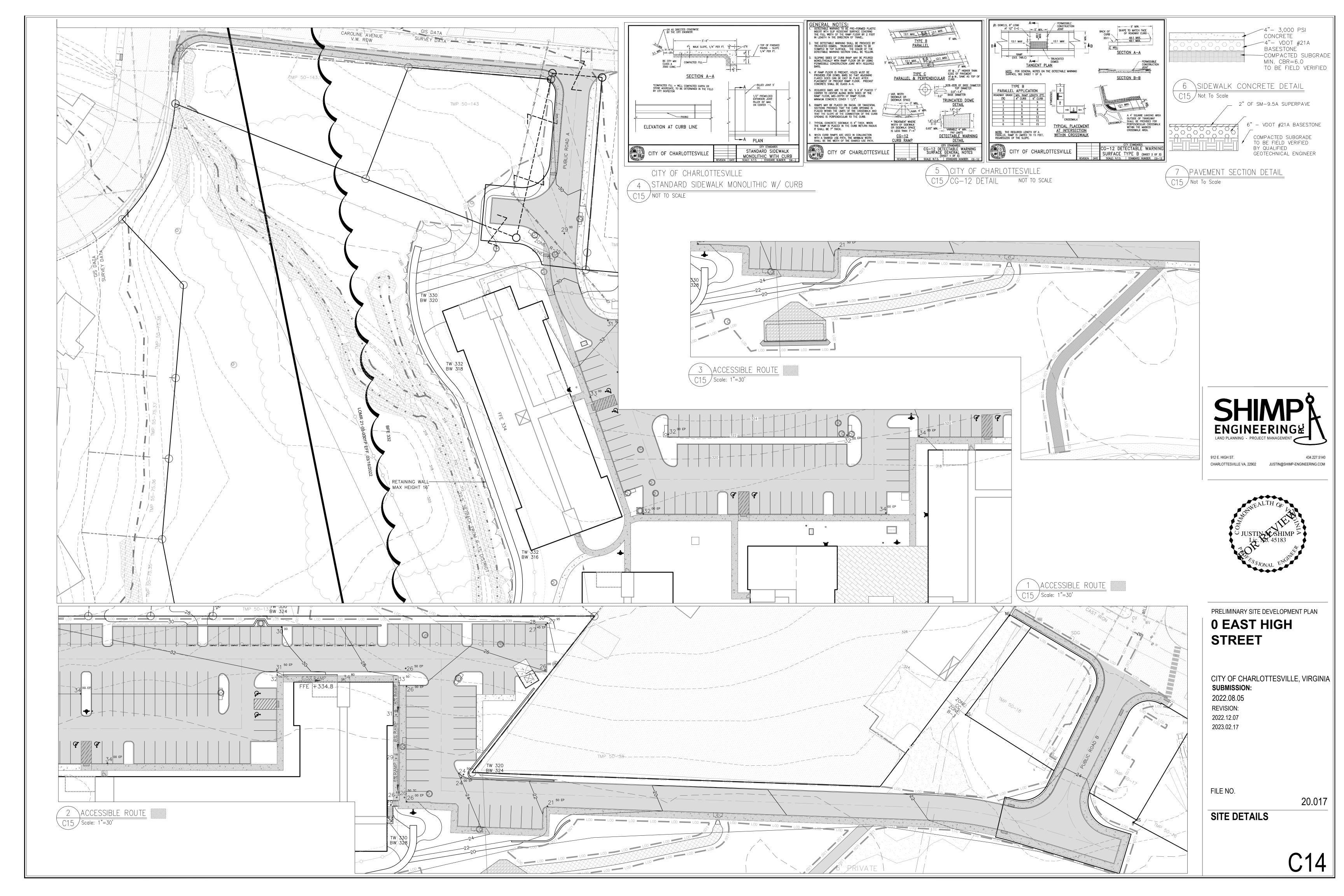
PRELIMINARY SITE DEVELOPMENT PLAN

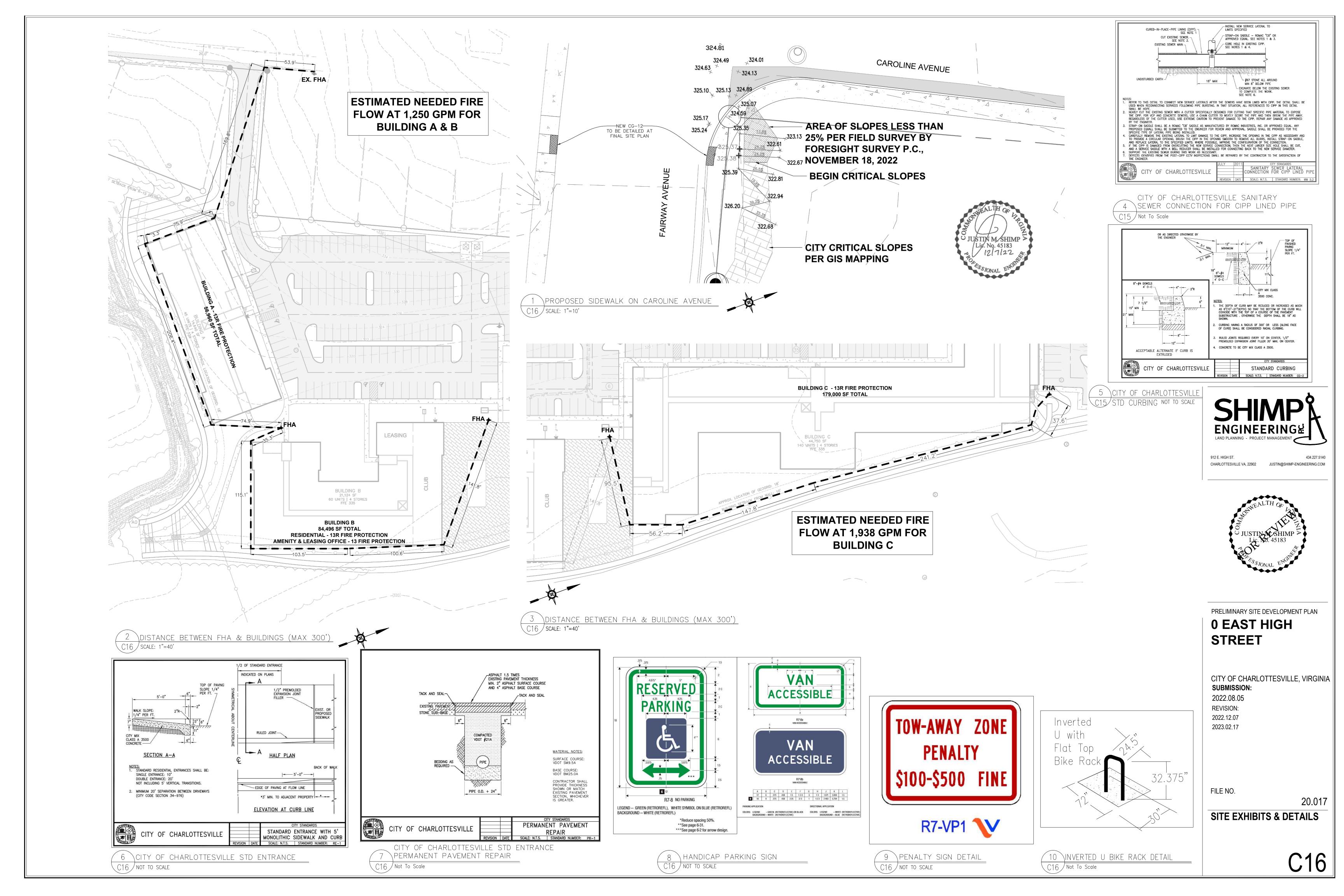
## 0 EAST HIGH **STREET**

CITY OF CHARLOTTESVILLE, VIRGINIA SUBMISSION: 2022.08.05 **REVISION:** 2022.12.07

20.017

**LIGHTING PLAN** 





0 E High Street Sewer Demand Calculation									
Use	Bedrooms				Flow Per User	<b>Total Sewer Demand</b>			
					(gpd)	(gpd)			
Bedroom Units * 1.9 persons	330	Units	627	Persons	100	62700			
		Units		Persons	100	0			
		SF		Persons	100	0			
Total Estimated Sewer Demand:					62700				

## 

Water Demand Calculations

## **BUILDING A**

SIZING WATER SERVICE LINES AND METERS

## CITY OF CHARLOTTESVILLE WATER CUSTOMER DATA SHEET

Customer 0 E High Street Address

Building Address 0 E High Street Zip Code 229

Subdivision Lot No. 50-144 Blk. No.

Type of Occupancy Residential

	Fixture Value	No. of Fixtures	Fixture Value
<u>Fixture</u>	60 psi		
Bathtub	8 :	x 54	= 432
Bedpan Washers	10	x	= 0
Bidet	2 :	x	= 0
Dental Unit	2 :	X	= 0
Drinking Fountain - Public	2 :	X	= 0
Kitchen Sink	2.2	x 44	= 96.8
Lavatory	1.5	x 59	= 88.5
Showerhead (Shower Only)	2.5	x 5	= 12.5
Service Sink	4 :	x	= 0
Toilet – Flush Valve	35	x	= 0
- Tank Type	4 :	x 59	= 236
Urinal – Pedestal Flush Valve	35	x	= 0
- Wall Flush Valve	16 :	x	= 0
Wash Sink (Each Set of Faucets)	4 :	x	= 0
Dishwasher	2 :	x 44	= 88
Washing Machine	6 :	x 44	= 264
Hose (50 ft Wash Down) - 1/2 in.	5 :	x	= 0
- 5/8 in.	9 :	x	= 0
- 3/4 in.	12 :	x	= 0
Combined Fixture Value Total			= 1217.8

	Pressure Factor	from Table 4-1 = 1.34gpm	110 psi		
Customer Peak Den	nand From Fig. 4	–2 or 4 –3 x Press. Factor	65 gpm x 1.34 gpm	=	87.1 gp
Add Irrigation -		Sections* x 1.16 or 0.40+		= _	gp
-	1 Hose-Bib x 9	Hose Bibs x Fixture Value x Pres	ss. Factor	= -	12.06 gp
Added Fixed Load				= _	gp
TOTAL FIXED DEM	IAND			=	99.16 gp

\* 100 ft² area = 1 section + Spray Systems- Use 1.16; Rotary systems- Use 0.40

## Figure 4-5 Water customer data sheet

Source: AWWA M22 Sizing Water Service Lines and Meters (Jan. 2004) Copyright 2004, American Water Works Association

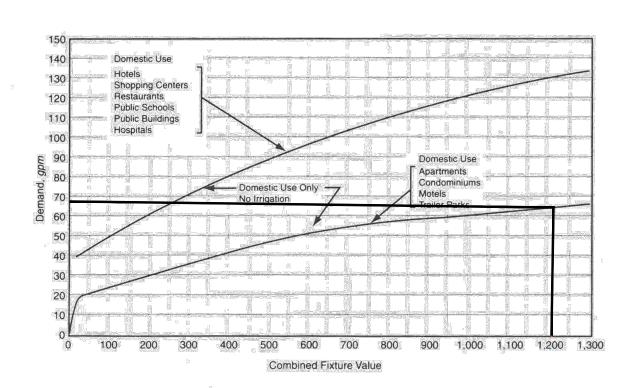


Figure 4-2 Water flow demand per fixture value—low range

#### **BUILDING B**

SIZING WATER SERVICE LINES AND METERS

# CITY OF CHARLOTTESVILLE WATER CUSTOMER DATA SHEET Customer 0 E High Street Address Building Address 0 E High Street Zip Code 229 Subdivision Lot No. 50-144 Blk. No. Type of Occupancy Residential

	Fixture Value	No. of Fixtures	Fixture Value
Fixture	60 psi	Tixtures	Value
Bathtub	8 x	76	= 608
Bedpan Washers	10 x		= 0
Bidet	2 x		= 0
Dental Unit	2 x		= 0
Drinking Fountain - Public	2 x		= 0
Kitchen Sink	2.2 x	61	= 134.2
Lavatory	1.5 x	82	= 123
Showerhead (Shower Only)	2.5 x	6	= 15
Service Sink	4 x		= 0
Toilet – Flush Valve	35 x		= 0
- Tank Type	4 x	82	= 328
Urinal – Pedestal Flush Valve	35 x		= 0
- Wall Flush Valve	16 x		= 0
Wash Sink (Each Set of Faucets)	4 x		= 0
Dishwasher	2 x	61	= 122
Washing Machine	6 x	61	= 366
Hose (50 ft Wash Down) - 1/2 in.	5 x		= 0
- 5/8 in.	9 x		= 0
- 3/4 in.	12 x		= 0
Combined Fixture Value Total			= 1696.2

	Pressure Factor from Table 4-1 = 1.34gpm	110 psi		
ustomer Peak Der	nand From Fig. 4 –2 or 4 –3 x Press. Factor	70 gpm x 1.34 gpm	=	93.8 gpm
dd Irrigation -	Sections* x 1.16 or 0.40+		= _	gpm
-	1 Hose-Bib x 9 Hose Bibs x Fixture Value x Pre	ess. Factor	= _	12.06 gpm
dded Fixed Load			= _	gpm
OTAL FIXED DEM	IAND		=	105.86 gpm
			·	

\* 100 ft² area = 1 section + Spray Systems- Use 1.16; Rotary systems- Use 0.40

#### Figure 4-5 Water customer data sheet

Source: AWWA M22 Sizing Water Service Lines and Meters (Jan. 2004) Copyright 2004, American Water Works Association

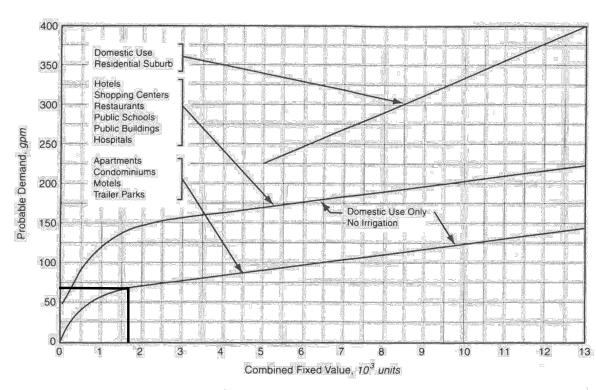


Figure 4-3 Water flow demand per fixture value—high range

## **BUILDING C**

SIZING WATER SERVICE LINES AND METERS

## CITY OF CHARLOTTESVILLE WATER CUSTOMER DATA SHEET 0 E High Street Address

Customer 0 E High Street Address

Building Address 0 E High Street Zip Code 2290\*

Subdivision Lot No. 50-144 Blk. No.

Type of Occupancy Residential

	Fixture Value	No. of Fixtures			Fixture Value	
Fixture	60 psi					
Bathtub	8	x	175	=	1400	
Bedpan Washers	10	x		=	0	
Bidet	2	x		=	0	
Dental Unit	2	X		=	0	
Drinking Fountain - Public	2	X		=	0	
Kitchen Sink	2.2	X	140	=	308	
Lavatory	1.5	X	175	=	262.5	
Showerhead (Shower Only)	2.5	x	14	=	35	
Service Sink	4	X		=	0	
Toilet – Flush Valve	35	X		=	0	
- Tank Type	4	X	175	=	700	
Urinal – Pedestal Flush Valve	35	X		=	0	
- Wall Flush Valve	16	X		=	0	
Wash Sink (Each Set of Faucets)	4	X		=	0	
Dishwasher	2	X	140	=	280	
Washing Machine	6	X	140	=	840	
Hose (50 ft Wash Down) - 1/2 in.	5	x		=	0	
- 5/8 in.	9	x		=	0	
- 3/4 in.	12	X		=	0	
Combined Fixture Value Total				=	3825.5	

	Pressure Factor from Table 4-1 = 1.34gpm	110 psi		
Customer Peak De	mand From Fig. 4 –2 or 4 –3 x Press. Factor	88 gpm x 1.34 gpm	=	117.92 gpm
Add Irrigation -	Sections* x 1.16 or 0.40+		= -	gpm
-	2 Hose-Bib x 9 Hose Bibs x Fixture Value x Pres	s. Factor	= -	24.12 gpm
Added Fixed Load			= -	gpm
TOTAL FIXED DEI	MAND		=	142.04 gpm

\* 100 ft² area = 1 section + Spray Systems- Use 1.16; Rotary systems- Use 0.40

#### Figure 4-5 Water customer data sheet

Source: AWWA M22 Sizing Water Service Lines and Meters (Jan. 2004) Copyright 2004, American Water Works Association

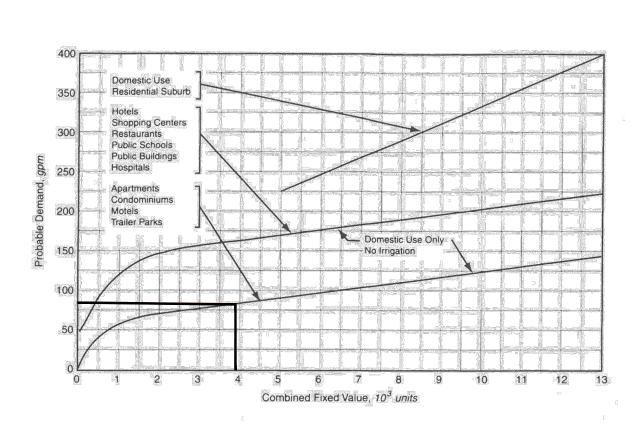


Figure 4-3 Water flow demand per fixture value—high range





PRELIMINARY SITE DEVELOPMENT PLAN

## 0 EAST HIGH STREET

CITY OF CHARLOTTESVILLE, VIRGINIA **SUBMISSION:**2022.08.05
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2022.12.07

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WATER & SANITARY DEMAND CALCULATIONS