

To: Mayor's Office of Strategic Planning and Community Development City of Somerville 93 Highland Avenue Somerville, MA 02143

Date: January 2, 2019

Memorandum

Project #: 13788.00

From: Patrick Dunford, P.E. Senior Project Manager Re: Transportation Access Plan 20 Inner Belt Road Somerville, Massachusetts

The following information is being provided to document the <u>draft</u> Transportation Access Plan (TAP) for the proposed development (the "Project") of 20 Earle Street in Somerville, Massachusetts (the "Site"). The Project involves the construction of a new residential building containing 205 units at the southerly end of the Site and a new 120-room hotel to be constructed at the northerly end of the Site. The existing City Club use currently located at the Site will continue to operate, but within a new and improved area within the proposed residential building. The TAP will be issued as a final document upon review and approval by the city, following and required edits or additional from that review. This document and accompanying information depicts the proposed Project access for automobile, bicycle, and pedestrian traffic. Information regarding truck deliveries and service vehicles (trash, recycling, etc.) also is provided for review.

Site Access Plan

The Project Site currently has three full-access curb cuts on Inner Belt Road serving the existing City Club portion of the Site. Two of these curb cuts provide access to an approximately 61-space surface parking lot located to the south of the building. The first curb cut is located just north of New Washington Street, and the second driveway is located 60 feet further to the north. The third curb cut to the City Club is provided to the north of that building, and it services a small parking area for that use. The northerly portion of the Site, which currently is occupied by an approximately 139-space parking lot, has a single full-access driveway located on Crescent Street at its intersection with Roland Street.

In conjunction with the Project, the existing City Club driveways on Inner Belt Road will be closed and replaced by a single new full-access driveway at the southerly end of the Site to the proposed 427-space parking garage. As noted earlier, a new Roland Street Extension also will be constructed between the two uses connecting Inner Belt Road to Crescent Street. VHB has evaluated the available sight lines at both new Inner Belt Road curb cuts and there will be sufficient stopping sight distance and intersection sight distance available at both locations. A full-access driveway for the garage also will be provided on the new Roland Street Extension roadway, with that curb cut being located at the easterly end of the residential building. A full-access driveway to the hotel will be located on the northerly side of the new circulation road opposite the residential garage driveway. This hotel driveway will provide access to a six-space surface parking lot and hotel pick-up/drop-off area next to the main building entrance.

As part of the Project construction, new and improved sidewalks complying with Massachusetts Architectural Access Board (AAB) requirements will be provided along the Site's frontage on Inner Belt Road and Washington Street. In addition to the sidewalk, the area between the new buildings and the street edge will feature space to be used for tree pits, pavers, or street furniture.



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Site Plans and Supporting Graphics

The Project Site plans accompanying this application have been attached for reference. To supplement the Site plans, graphics highlighting the planned vehicular and pedestrian accommodations have been provided for general reference.

Transportation Elements Plan

The attached "Figure 1 – Transportation Elements Plan" provides the required content specified for the TAP Transportation Elements Plan. This plan is being provided solely for the purposes of this TAP, and any detailed architectural information should be taken from the plans accompanying this overall submittal package. The roadway dimensions, roadway striping, and signage all are depicted on the "Layout & Materials Plan" within the civil/site plans accompanying this submittal.

On-Street Parking

The regulation of on-street parking will be coordinated through consultation with the City of Somerville. The current plans accompanying this submittal depicts the existing unstriped on-street parking being maintained along the easterly side of Inner Belt Road adjacent to the Site. The only exception to this is where a limited amount of on-street parking will need to be eliminated at the newly created intersection of Inner Belt Road with the proposed "Roland Street Extension" roadway connecting Inner Belt Road to Roland Street and Crescent Street. Signage on Inner Belt Road indicates that parking currently is prohibited from this point to Washington Street, so the new curb cut should only require the elimination of parking for one or two vehicles at most.

Pedestrian Access Plan

Figure 2 depicts the Project sidewalk network and general building entrance locations is provided attached to this document. The building entrances shown are general locations; the exact details are provided within the architectural plans accompanying this overall submittal.

Bicycle Parking Plan

As indicated on the Project Site plan accompanying this submittal, total of 67 bicycle parking spaces will be provided for the new residential use. An additional 8 spaces also will be provided for the City Club use that will continue to operate within that building. To maximize use by residents and visitors, this bicycle parking supply will be provided through a combination of an internal bike room and bicycle racks provided around the perimeter of the building. The resulting supply will satisfy the City of Somerville Zoning Bylaws requirement for both uses. Likewise, 12 bicycle parking spaces will be provided for the hotel, which exceeds the City of Somerville Zoning Bylaws requirement of 11 spaces.

Motor Vehicle Parking Plan

A plan showing the proposed structured parking supply, surface parking spaces, and on-street parking is provided attached to this document as Figure 3.



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Vehicle Movement Plan

Vehicle tracking diagrams have been provided to demonstrate the ability of large vehicles to navigate in and out of the Project Site from the various loading facilities and/or driveways. It is expected that both the hotel and residential development deliveries and service vehicles will be limited to single-unit trucks.



ATTACHMENTS

- > Proposed Site Plans October 10, 2018 (revised through January 3, 2019)
- > Transportation Elements Plan
- > Pedestrian Access Plan
- > Motor Vehicle Parking Plan
- > Vehicle Tracking Diagrams January 3, 2019



Proposed Site Plans – October 10, 2018 (revised through January 3, 2019)

Site Plans

Issued for Local Approvals

Date Issued October 10, 2018

Latest Issue January 3, 2019

Hotel & Residential Development

20 Inner Belt Road Somerville, MA

Applicant:

CPC-T Innerbelt, LLC 1601 Trapelo Road, Suite 174 Waltham, Massachusetts 02451

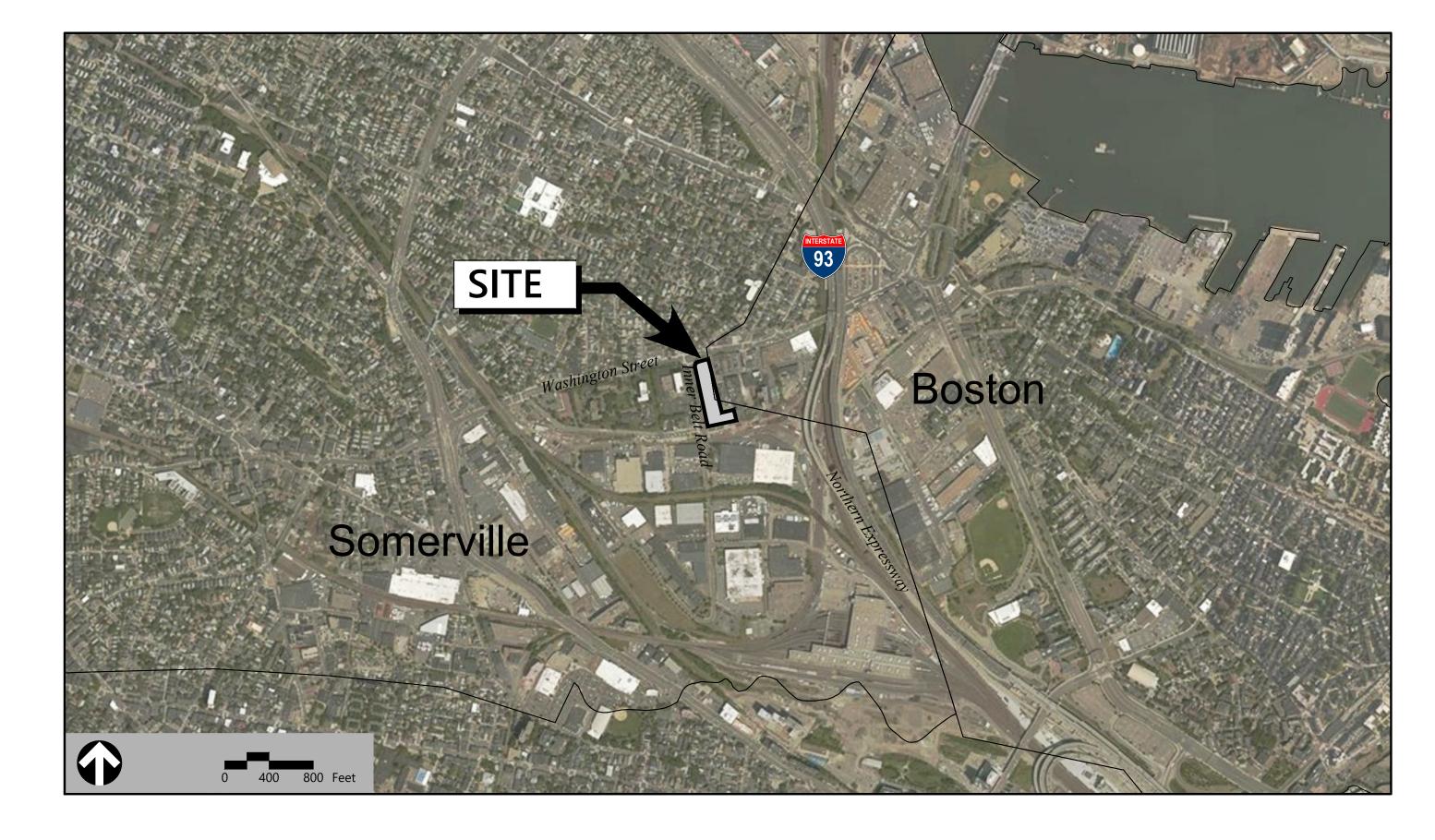
Owner - Residential

Paradigm Direct Roland LLC & Somerville City Club
20 Inner Belt Road
Somerville, Massachusetts 02145

Owner - Hotel

Paradigm Direct Roland LLC c/o Paradigm Properties LLC 93 Summer Street Boston, Massachusetts 02110

Assessor's Map: 107 Lot: B-1A, B-1, B-2, B-3, B-4



Shee	Sheet Index		
No.	Drawing Title	Latest Issue	
C-1	Legend and General Notes	January 3, 2019	
C-2	Overall Site Plan	January 3, 2019	
C-3	Utility Plan	January 3, 2019	
C-4	Site Details 1	January 3, 2019	
C-5	Site Details 2	January 3, 2019	

Reference Drawings			
No.	Drawing Title	Latest Issue	
Sv-1	Existing Conditions Plan of Land	August 20, 2018	

	Land		
	No.	Drawing Title	Latest Issue
•	L-0	Existing Landscape and Site Preparation Plan	January 3, 2019
	L-1	Landscape Improvements Plan	January 3, 2019
	L-2	Landscape Details	January 3, 2019

	Architect Drawings - Hotel		
e	No.	Drawing Title	Latest Issue
19	A1.0	Proposed Ground Floor Plan	January 3, 2018
19	A1.1	Proposed Typical Floor Plan (2-6)	January 3, 2018
19	A2.0	Proposed Building Elevations	January 3, 2018
19	P1.0 - P1.3	Perspective View	January 3, 2018

	Architec		
	No.	Drawing Title	Latest Issue
l	X-101	Shadow Study	December 13, 2018
	A-102 - A-109	Ground Floor - Roof Plan	December 13, 2018
	A-201, -203	Overall Building Elevations	December 13, 2018
	P-1 - P-4	Perspectives	December 13, 2018



PO Box 9151 Watertown, MA 02471 617.924.1770

Architect - Residential

ICON Architecture, Inc. 101 Summer Street Boston, MA 02110 617.451.3333

Architect - Hotel

Group One Partners 21 W 3rd Street Boston, MA 02127 617.268.7000

Landscape Architect

GroundView
5 Dell Street
Somerville, MA 02145
617.548.9688

VHB Project: 13788.00 - Hotel & Resident Issued for: Local Approvals - 1/3/19

Exist.	Prop.		Exist.	Prop.	
		PROPERTY LINE			CONCRETE
		PROJECT LIMIT LINE	<u> </u>		HEAVY DUTY PAVEMENT
					BUILDINGS
		RIGHT-OF-WAY/PROPERTY LINE			RIPRAP
		EASEMENT			
		BUILDING SETBACK			CONSTRUCTION EXIT
10+00	10+00	PARKING SETBACK	27.35 TC×	27.35 TC×	TOP OF CURB ELEVATION
+		BASELINE	26.85 BC×	26.85 BC×	BOTTOM OF CURB ELEVATION
		CONSTRUCTION LAYOUT	132.75 ×	132.75 ×	SPOT ELEVATION
		ZONING LINE	45.0 TW 🗸	45.0 TW 38.5 BW	TOP & BOTTOM OF WALL ELEVATI
		TOWN LINE	38.5 BW ^	\triangle	
			-	•	BORING LOCATION
		LIMIT OF DISTURBANCE	■ MW	⊞	TEST PIT LOCATION
<u>Δ</u> . <u> </u>		WETLAND LINE WITH FLAG	○ ^{MW}	→ ™ W	MONITORING WELL
		FLOODPLAIN	———UD ———	UD	UNDERDRAIN
BLSF		BORDERING LAND SUBJECT	12"D	12″D—►	
———ВZ——		TO FLOODING WETLAND BUFFER ZONE		6″RD →	DRAIN
			6"RD 12"S	 12"S	ROOF DRAIN
NDZ		NO DISTURB ZONE	FM	FM	SEWER
200'RA		200' RIVERFRONT AREA			FORCE MAIN
		CDAVEL DO : -	—— OHW ——	——— OHW ———	OVERHEAD WIRE
FOD		GRAVEL ROAD	6"W	6"W	WATER
<u>EOP</u>	EOP	EDGE OF PAVEMENT	4"FP	——4"FP——	FIRE PROTECTION
BB	BB	BITUMINOUS BERM		2"DW	DOMESTIC WATER
BC	BC	BITUMINOUS CURB	3"G	——-G——	GAS
CC	CC	CONCRETE CURB	——Е——	——Е——	ELECTRIC
	CG	CURB AND GUTTER	STM	STM	STEAM
CC	ECC	EXTRUDED CONCRETE CURB	T	T	TELEPHONE
CC	<u>MCC</u>	MONOLITHIC CONCRETE CURB	——-FA——	——-FA——	FIRE ALARM
CC	PCC	PRECAST CONC. CURB		—— CATV——	
SGE	SGE	SLOPED GRAN. EDGING	CATV	——CATV——	CABLE TV
VGC	VGC			III	CATCH BASIN
<u> </u>		VERT. GRAN. CURB			DOUBLE CATCH BASIN
		LIMIT OF CURB TYPE			GUTTER INLET
		SAWCUT		•	DRAIN MANHOLE
<u> </u>			=TD=		
(1//////		BUILDING	—10— [TRENCH DRAIN
](] ⊲EN	BUILDING ENTRANCE	CO		PLUG OR CAP
	_ LD	LOADING DOCK		•	CLEANOUT
•		BOLLARD		•	FLARED END SECTION
D	D	DUMPSTER PAD		$\overline{}$	HEADWALL
-	-	SIGN	<u> </u>	•	SEWER MANHOLE
	• ==	DOUBLE SIGN			SEWER WANHOLE
	<u></u>	DOUBLE SIGN	CS ●	CS ●	CURB STOP & BOX
<u> </u>		STEEL GUARDRAIL	₩V ⑤	₩V •	WATER VALVE & BOX
		WOOD GUARDRAIL	TSV	TSV	TAPPING SLEEVE, VALVE & BOX
		WOOD GOARDRAIL	<u>+</u>	*	SIAMESE CONNECTION
		DATU	HYD (©)	HYD ©	FIRE HYDRANT
		PATH	WM	WM ⊡	
\wedge	\mathcal{M}	TREE LINE	PIV	PIV	WATER METER
×	-x x	WIRE FENCE		•	POST INDICATOR VALVE
o	•	FENCE	W	(()	WATER WELL
	-	STOCKADE FENCE	GG	G G ○	GAS GATE
000000	∞	STONE WALL	GM	GM ⊡	GAS METER
		RETAINING WALL		EMH	
		STREAM / POND / WATER COURSE	E EM	● LMIT EM	ELECTRIC MANHOLE
		DETENTION BASIN	□	⊡	ELECTRIC METER
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×	×	SILT FENCE	1	● ^{TMH}	TELEPHONE MANHOLE
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	· · · · · · · · · · · · · · · · · · ·	J.E. JOCK, STIMW WATTLE	_	T	TRANSFORMER PAD
4	 4 	MINOR CONTOUR	-0-	•	UTILITY POLE
20	20	MAJOR CONTOUR	0-	•-	GUY POLE
	<u> </u>			Ţ	
(10)	(10)	PARKING COUNT	HH	НН	GUY WIRE & ANCHOR
	©10	COMPACT PARKING STALLS	□ PB	⊡ PB	HAND HOLE
	DYL	DOUBLE YELLOW LINE		<u> </u>	PULL BOX
DYL		2 0 0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
DYL SL	SL		Matc	chline	MATCHLINE
DYL SL		STOP LINE CROSSWALK	Mato	chline	MATCHLINE

ACCESSIBLE CURB RAMP

VAN-ACCESSIBLE PARKING

ACCESSIBLE PARKING

Abb	reviations	
ADD	CVIACIONS	

Abbreviations		_	l l
Genera	I	Ge	eneral
ABAN	ABANDON	1.	CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
ACR ADJ	ACCESSIBLE CURB RAMP ADJUST	2.	CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
APPROX	APPROXIMATE	3.	ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
BIT BS	BOTTOM OF SLOPE	4.	AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE SIX (6) INCHES LOAM AND SEED.
BWLL	BROKEN WHITE LANE LINE	5.	WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, THE SITE CONTRACTOR SHALL PERFORM
CONC	CONCRETE		EARTHWORK OPERATIONS REQUIRED UP TO SUBGRADE ELEVATIONS.
DYCL	DOUBLE YELLOW CENTER LINE	6.	WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
EL ELEV	ELEVATION ELEVATION	7.	UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS
EX	EXISTING		AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT
FDN	FOUNDATION	8.	APPROPRIATE PERMITS. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM
FFE GRAN	FIRST FLOOR ELEVATION GRANITE		TRAFFIC CONTROL DEVICES.
GTD	GRADE TO DRAIN	9.	AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
LA	LANDSCAPE AREA	10.	IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE
LOD	LIMIT OF DISTURBANCE		ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER
MAX MIN	MAXIMUM	11	IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE
NIC	NOT IN CONTRACT	11.	RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
NTS	NOT TO SCALE	12.	DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
PERF	PERFORATED	13.	CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT
PROP	PROPOSED		NO COST TO OWNER.
REM RET	REMOVE RETAIN	14.	THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND FALLS WITHIN THE NPDES CONSTRUCTION GENERAL PERMIT (CGP) PROGRAM AND EPA JURISDICTION. PRIOR TO THE START OF CONSTRUCTION CONTRACTOR IS TO FILE A CGP NOTICE OF INTENT WITH THE EPA AND PREPARE A
R&D	REMOVE AND DISPOSE		STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE NPDES REGULATIONS. CONTRACTOR SHALL CONFIRM THE OWNER HAS ALSO FILED A NOTICE OF INTENT WITH THE EPA.
R&R	REMOVE AND RESET	1.14	.:1:4:
SWEL	SOLID WHITE EDGE LINE		THE LOCATIONS SIZES AND TYPES OF EVISTING LITHLITIES ARE SHOWN AS AN APPROVIMATE
SWLL	SOLID WHITE LANE LINE	1.	THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT
TS	TOP OF SLOPE		GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT
TYP	TYPICAL		THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND
Utility		_	ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
CB CMP	CATCH BASIN CORRUGATED METAL PIPE	2.	WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING
CO	CLEANOUT		CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE
DCB	DOUBLE CATCH BASIN		OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR
DMH	DRAIN MANHOLE	2	ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
CIP	CAST IRON PIPE	3.	SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS.
COND	CONDUIT DUCTILE IRON PIPE	4.	RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND
DOM	DOMESTIC		SHALL BE SET/RESET AS FOLLOWS: A. PAVEMENTS AND CONCRETE SURFACES: FLUSH
FES	FLARED END SECTION		B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
FM	FORCE MAIN		C. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.
F&G	FRAME AND GRATE	5.	THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY
F&C	FRAME AND COVER		SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN
GI GT	GUTTER INLET GREASE TRAP	6	LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR
HDPE	HIGH DENSITY POLYETHYLENE PIPE	0.	POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY
НН	HANDHOLE	_	THE UTILITIES COMPANY.
HW	HEADWALL	7.	UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN: A. WATER PIPES SHALL BE COPPER TYPE 'K'
HYD	HYDRANT		B. SANITARY SEWER PIPES SHALL BE POLYVINYL CHLORIDE (PVC) SEWER PIPE
INV	INVERT ELEVATION		C. STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE
I= LP	INVERT ELEVATION LIGHT POLE		D. PIPE INSTALLATION AND MATERIALS SHALL COMPLY WITH THE STATE PLUMBING CODE WHERE APPLICABLE. CONTRACTOR SHALL COORDINATE WITH LOCAL PLUMBING INSPECTOR PRIOR TO
MES	METAL END SECTION		BEGINNING WORK.
PIV	POST INDICATOR VALVE	8.	INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL
PWW	PAVED WATER WAY		BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS
PVC	POLYVINYLCHLORIDE PIPE	Q	INDICATED ON THE DRAWINGS. CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCHES FOR GAS IN ACCORDANCE WITH GAS
RCP	REINFORCED CONCRETE PIPE	J.	COMPANY'S REQUIREMENTS.
R=	RIM ELEVATION	10.	ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN.) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL
SMH TSV	SEWER MANHOLE TAPPING SLEEVE, VALVE AND BOX		MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.
UG	UNDERGROUND		

UTILITY POLE

Notes

Layout and Materials

- 1. SEE LANDSCAPE DRAWINGS FOR LAYOUT, GRADING, LANDSCAPE, AND PLANTING DETAIL.
- 2. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
- 3. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
- 4. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
- 5. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURER'S LITERATURE, SHOP DRAWINGS, AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

- 1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS.
- EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.
- 3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
- 4 THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE
- 5. UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS.

Erosion Control

- PRIOR TO STARTING ANY OTHER WORK ON THE SITE. THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
- 2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- 3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
- 4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
- 5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

Existing Conditions Information

- 1. BASE PLAN: THE PROPERTY LINES SHOWN WERE DETERMINED BY AN ACTUAL FIELD SURVEY CONDUCTED BY VHB, INC. IN JANUARY 17, 2017 AND FROM DEEDS AND PLANS OF RECORD. THE EXISTING CONDITIONS SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VHB, INC. IN JANUARY, 2017.
- 2. TOPOGRAPHY: ELEVATIONS ARE BASED ON NAVD 1988.
- GEOTECHNICAL DATA INCLUDING TEST PIT AND BORING LOCATIONS AND ELEVATIONS WERE OBTAINED FROM A PRELIMINARY FOUNDATION ENGINEERING REPORT, COMPLETED BY MCPHAIL ASSOCIATES, LLC ON NOVEMBER 1, 2017.

Document Use

- 1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- 3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT



PO Box 9151 Watertown, MA 02471 617.924.1770

Hotel & Residential Development

0-20 Inner Belt Road Somerville, Massachusetts

	City Comments	January 3, 2015 CITY
Design	ed by	Checked by
	JRM	ĆPN

Not Approved for Construction

Local Approvals

Legend and **General Notes**

October 10, 2018

Zoning Summary Chart - Hotel

Zoning District(S):	BB - Commercial Residential		
Overlay District(S):	Medical Marijuana Overlay		
Zoning Regulation Requirements	Required	Provi	
LOT AREA	-	21,73	
BUILDING FOOTPRINT	-	13,48	

Overlay District(S):	Medical Marijuana Overlay		
Zoning Regulation Requirements	Required	Provided	
LOT AREA	-	21,734 SF	
BUILDING FOOTPRINT	-	13,484 SF	
MAXIMUM GROUND COVERAGE	80%	62%	
MINIMUM LANDSCAPED AREA	10%	2.1%	
NET FLOOR AREA	-	62,640 SF	
MAXIMUM FLOOR AREA RATIO	2.0	2.9	
MAXIMUM HEIGHT	50 Feet	69.5 Feet	
MINIMUM FRONT YARD	15 Feet	0.24 Feet	
MINIMUM SIDE YARD	N/A	N/A	
MINIMUM REAR YARD	N/A	N/A	
RESIDENTIAL SETBACK	1/3 height of building (24 Feet)	>24 Feet	

Zoning Summary Chart - Residential

Zonnig Sammary Chart Residential			
Zoning District(S): BB - Commercial Residential			
Overlay District(S):	Medical Marijuana Ov	erlay	
Zoning Regulation Requirements	Required	Provided	
MINIMUM LOT AREA PER UNIT	1,000 SF/UNIT (205,000 SF)	69,200 SF	
BUILDING FOOTPRINT	-	61,197 SF	
MAXIMUM GROUND COVERAGE	80%	89%	
MINIMUM LANDSCAPED AREA	10%	14.4% ^A	
NET FLOOR AREA	-	223,750 SF	
MAXIMUM FLOOR AREA RATIO	2.0	3.3	
MAXIMUM HEIGHT	50 Feet	85 Feet	
MINIMUM FRONT YARD	15 Feet	0.26 Feet	
MINIMUM SIDE YARD	N/A	N/A	
MINIMUM REAR YARD	10 feet plus 2 feet for each story above ground floor (22')	5 Feet	

Parking Summary Chart - Hotel

	Size		Spaces	
Description	Required	Provided	Required	Provided
SURFACE STANDARD SPACES	9 x 18	9 x 18	98	5
SURFACE ACCESSIBLE SPACES A	9 x 18	9 x 18	5	1
TOTAL SPACES			103	6 ^C
LOADING AREAS			0	0
BIKE PARKING SPACES B			11	12

FOOTNOTES: A ADA/STATE/LOCAL REQUIREMENTS

> B BIKE PARKING REQUIREMENTS: 103 PARKING SPACES REQUIRED; 1 BIKE SPACE REQ'D / 10 PARKING SPACES

11 BIKE SPACES REQUIRED C PARKING PROVIDED WITHIN THE GARAGE TO MEET HOTEL PARKING REQUIREMENTS

Parking Requirements:

7 SPACES	=	1 EMPLOYEE	/	0.5 SPACE	Х	HOTEL 14 EMPLOYEES	HOTEL
96 SPACES	=	1 ROOM	/	0.8 SPACE	х	120 ROOMS	
103 SPACES	=	ARKING REQUIRED	L PA	TOTA			



101 Walnut Street PO Box 9151 Watertown, MA 02471 617.924.1770

Parking Summary Chart - Residential

	Size		Spaces	
Description	Required	Provided	Required	Provided
GARAGE STANDARD SPACES	9 x 18	9 x18	520	190 ^C
GARAGE COMPACT SPACES	8 x 16 MIN.	8 x 16 MIN.	-	225
GARAGE ACCESSIBLE SPACES A	9 x 18	9 x 18	11	12
TOTAL SPACES			531	427
LOADING AREAS ^B	12 x 30	9 x 30	1	1
BIKE PARKING SPACES D			75	75

FOOTNOTES:

A ADA/STATE/LOCAL REQUIREMENTS B LOADING AREA PROVIDED FOR HOTEL AND FOR RESIDENTIAL / CITY CLUB USE

C INCLUDES 75 PARKING SPACES UNDER RESIDENTIAL BUILDING, AND 97 PARKING SPACES FOR HOTEL USE D BIKE PARKING REQUIREMENTS:

RESIDENTIAL: 1 BIKE SPACE / 7 DWELLING UNITS PLUS 1 BIKE SPACE / 3 DWELLING UNITS (ADDITIONAL DU ABOVE 7)

67 BIKE SPACES REQUIRED 80 PARKING SPACES REQUIRED; 1 BIKE SPACE REQ'D / 10 PARKING SPACES 8 BIKE SPACES REQUIRED

Parking Requirements:

,							
STUDIO	37 UNITS	х	1 SPACE	/	1 UNIT	=	37 SPACES
1- & 2- BEDROOM	162 UNITS	х	1.5 SPACES	/	1 UNIT	=	243 SPACES
3-BEDROOM	6 UNITS	х	2 SPACES	/	1 UNIT	=	12 SPACES
VISITOR PARKING	205 UNITS	х	1 SPACE		6 UNITS	=	34 SPACES
CITY CLUB	475 VISITORS	х	1 SPACE	/	6 VISITORS	=	80 SPACES
PARADIGM PROPERTY							125 SPACES
			TOTA	L PA	RKING REQUIRED	=	531 SPACES

FOOTNOTES:

A BASED ON THE EXISTING PARKING RATIO OF 1.74

AFTER BUILDING DEMOLITION, PARADIGM REMAINING BUILDING = 144,794 SF x 1.72 SPACES / 1000 SF = 250 SPACES. 125 SPACES ARE REMAINING ON THEIR PROPERTY, THEREFORE 125 SPACES ARE REQUIRED FOR USE WITHIN PARKING

Sign Summary

,	M.U.T.C.D.	Specif	ication	Des
	Number	Width	Height	Des
	R1-1	30"	30"	STO
	R7-8	12″	18"	RESER' PARKI
	R7-8P	12"	6″	VAN

Hotel & Residential Development

0-20 Inner Belt Road Somerville, Massachusetts

City Comments

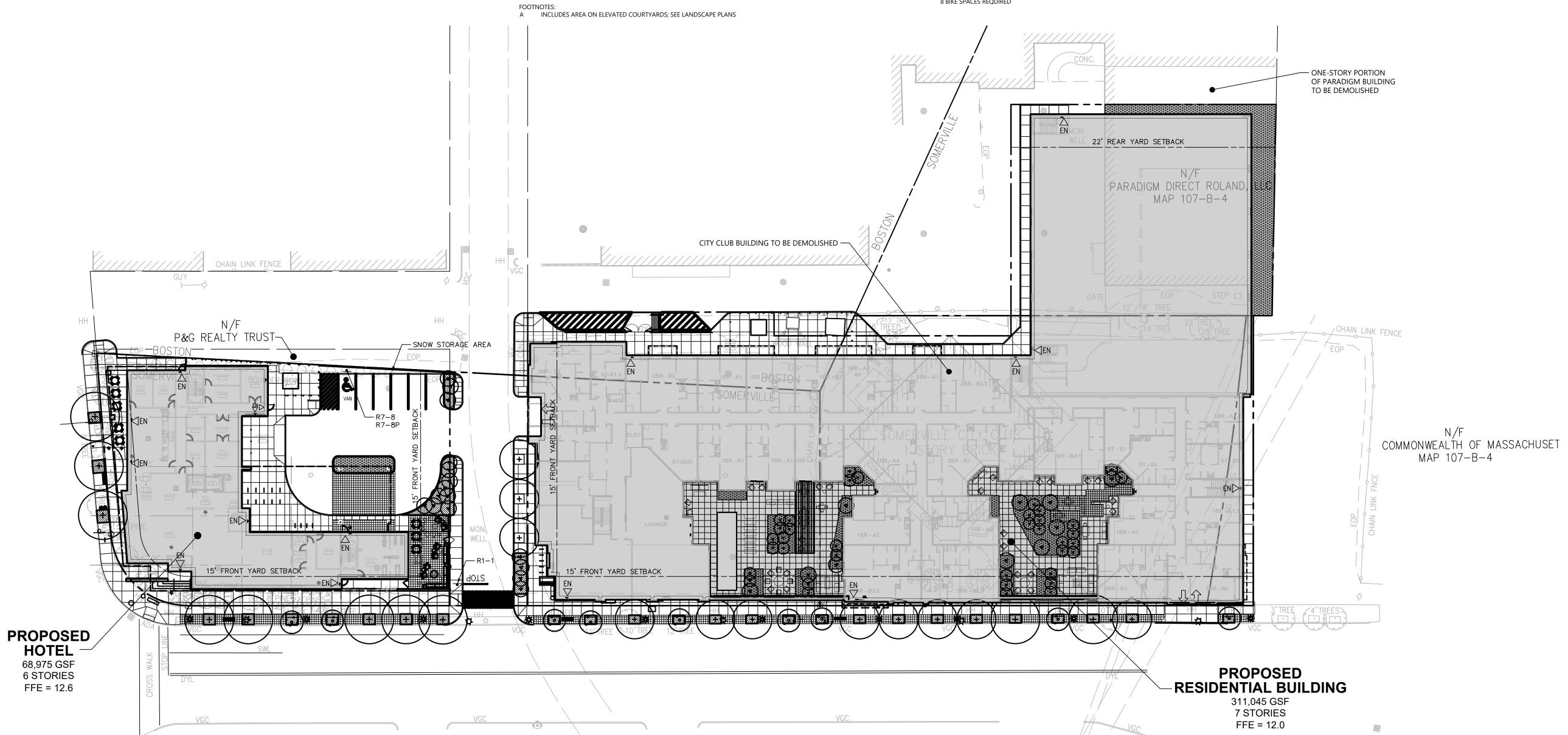
Designed by SKE	Checked by CPN
Issued for	Date
Local Approvals	October 10, 2018

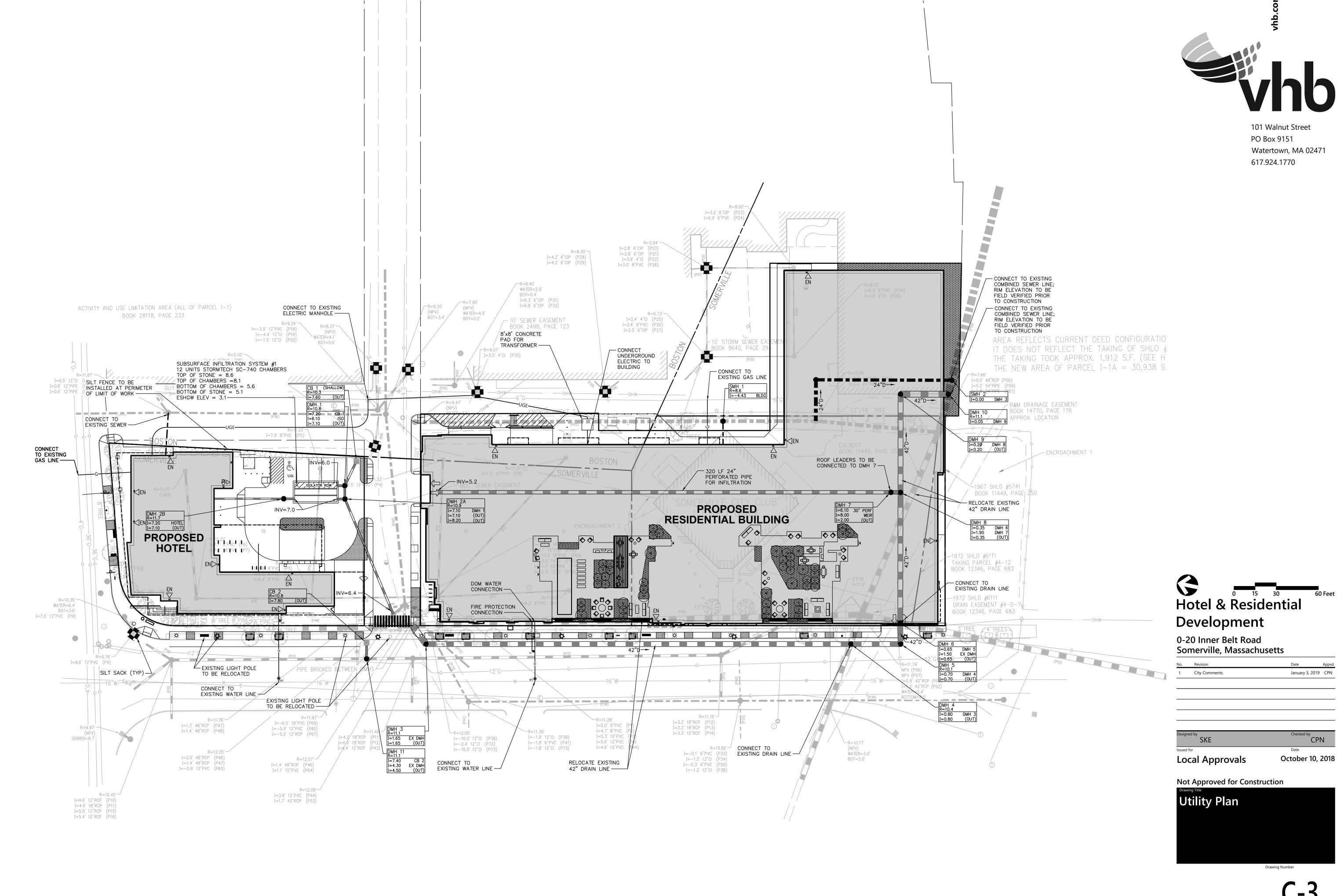
Not Approved for Construction





January 3, 2019 CPN

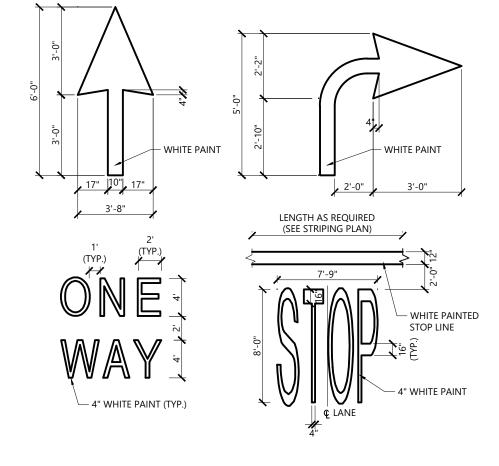


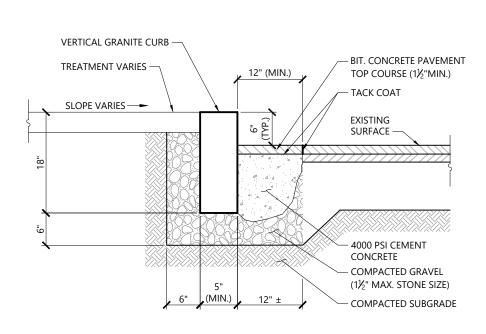


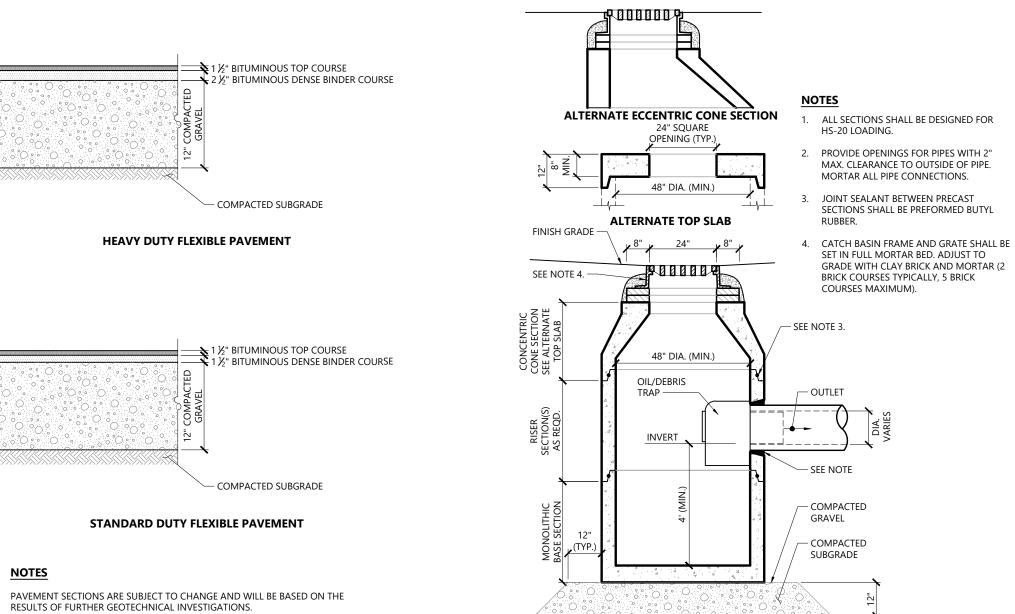
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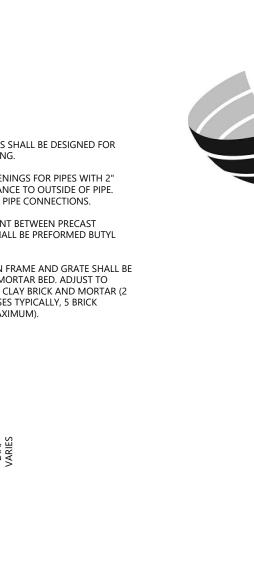
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Project Number 13788.00







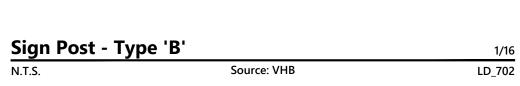


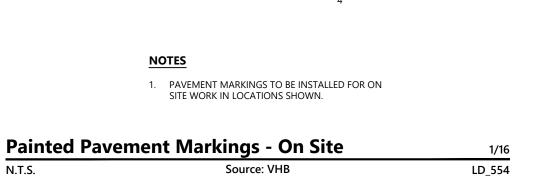
101 Walnut Street

Watertown, MA 02471

PO Box 9151

617.924.1770

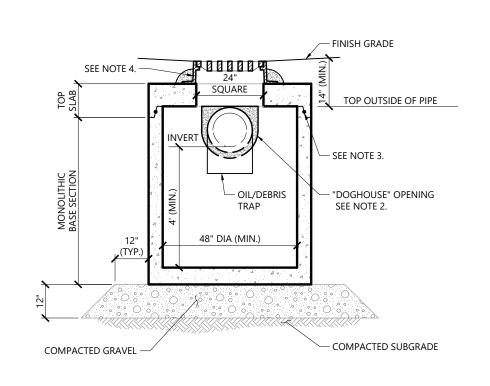






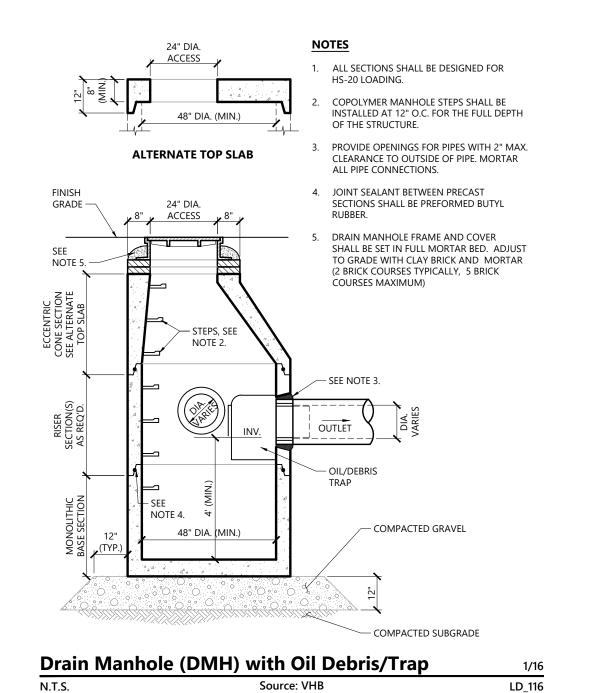


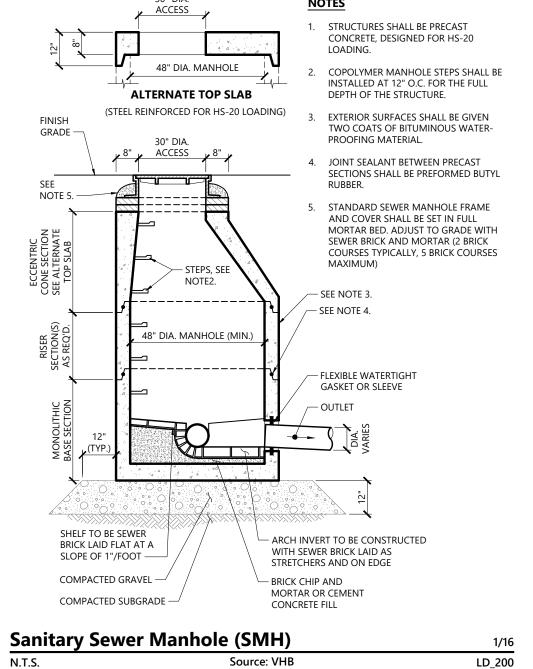


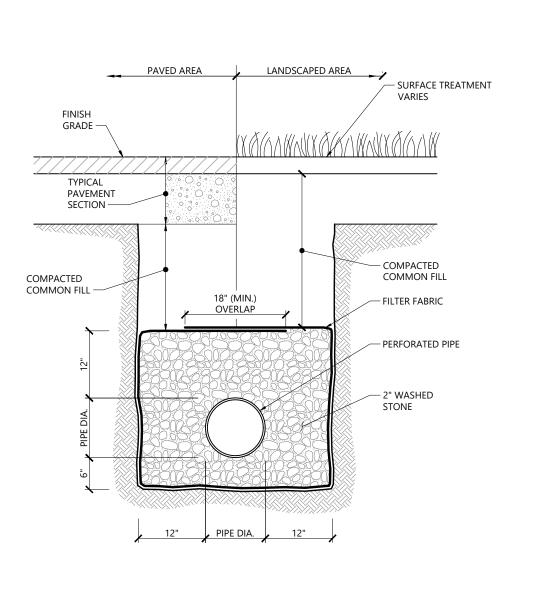




- 1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
- 2. PROVIDE DOGHOUSE OPENING FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHALL NOT REST DIRECTLY ON PIPE. GROUT ALL PIPE CONNECTIONS (NON-SHRINK GROUT).
- 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- 4. CATCH BASIN FRAME AND GRATE (4"DEPTH) SHALL BE SET IN FULL MORTAR BED.
- 5. ADJUST TO FINISH GRADE WITH CLAY BRICK AND MORTAR AS REQUIRED.





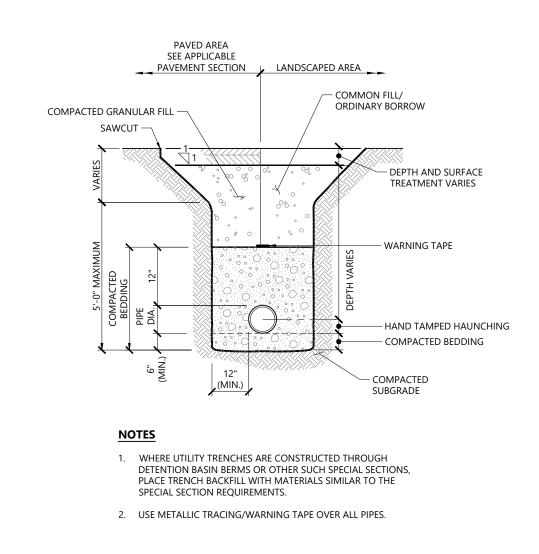


1/16

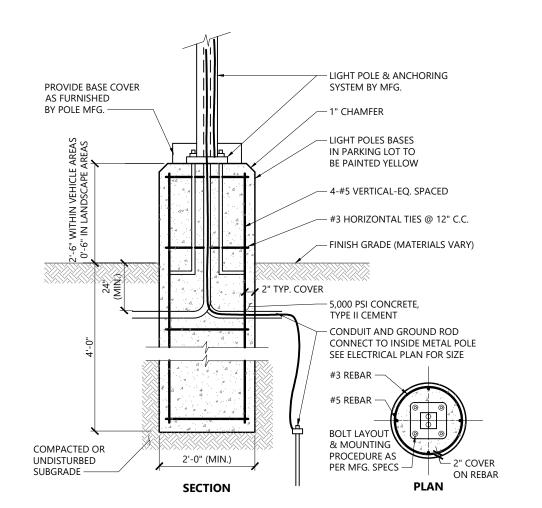
LD_184

Underdrain (UD)

N.T.S.

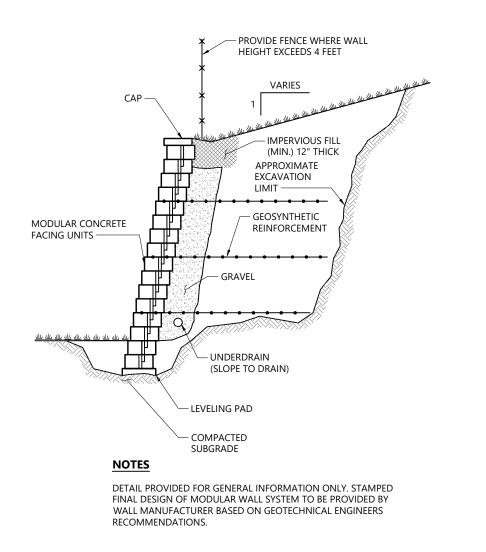


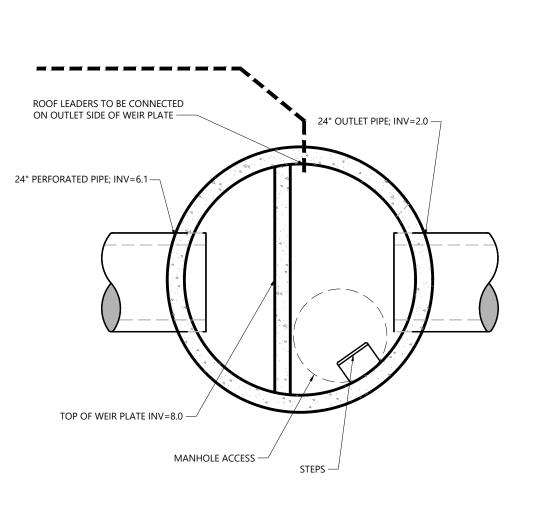




LIGHT POLE FOUNDATION DESIGN IS SUBJECT TO CHANGE BASED ON FINAL POLE AND FIXTURE SELECTION AND

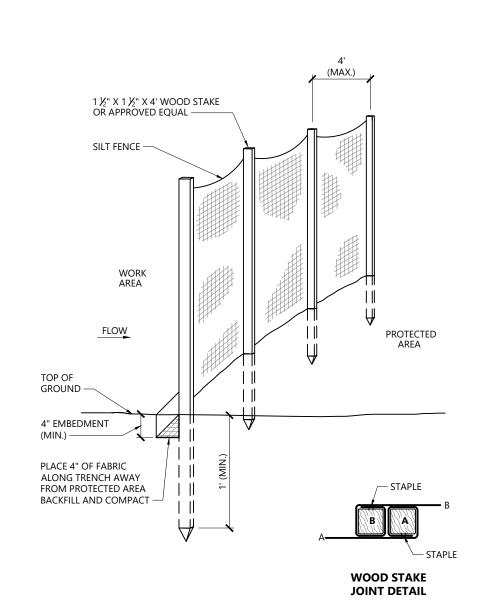
GEOTECHNICAL SITE INVESTIGATION.

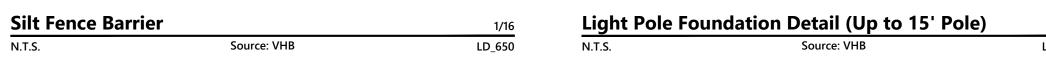




Source: VHB

Utility Trench		1/16
N.T.S.	Source: VHB	LD_300
		0-
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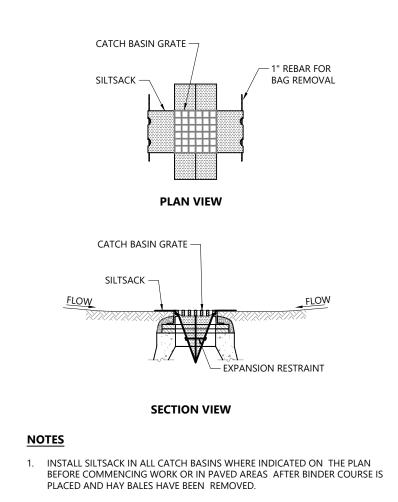












2. GRATE TO BE PLACED OVER SILTSACK. 3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED

PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN

Siltsack Sediment Trap LD_674



0-20 Inner Belt Road Somerville, Massachusetts

1 City Comments

Checked by CPN
Date
October 10, 201
ction



January 3, 2019 CPN

PLEASE NOTE:

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, ANGULAR.

STORMTECH COMPACTION RÉQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL PAVEMENT LAYER (DESIGNED AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS. BY SITE DESIGN ENGINEER) PERIMETER STONE *TO BOTTOM OF FLEXIBLE PAVEMENT, FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm). (450 mm) MIN* 6" (150 mm) MIN **EXCAVATION WALL** (CAN BE SLOPED OR VERTICAL) (760 mm) DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 6" (150 mm) MIN 12" (300 mm) MIN ---- 51" (1295 mm) SUBGRADE SOILS (150 mm) MIN END CAP

NOTES:

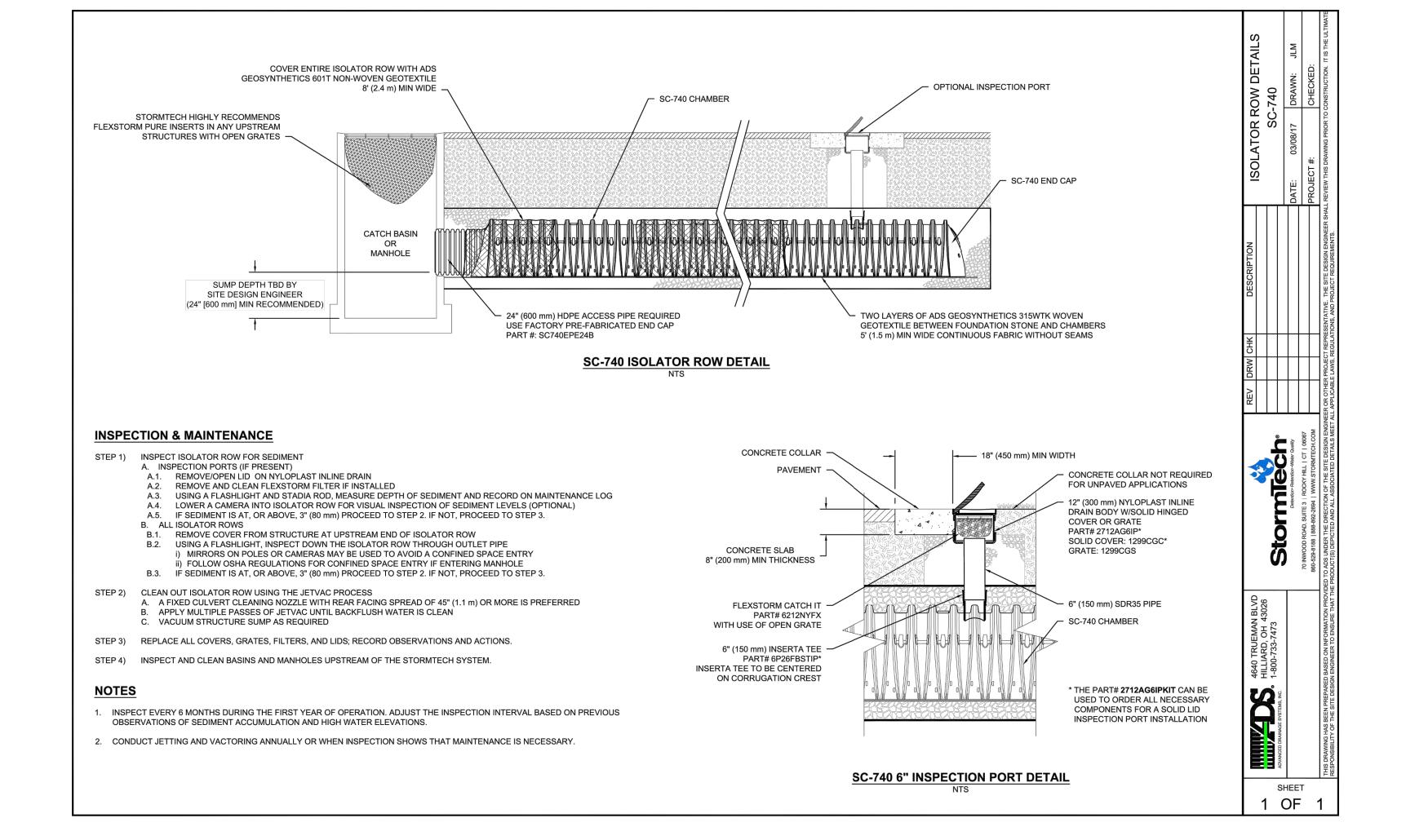
1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

(SEE NOTE 4)

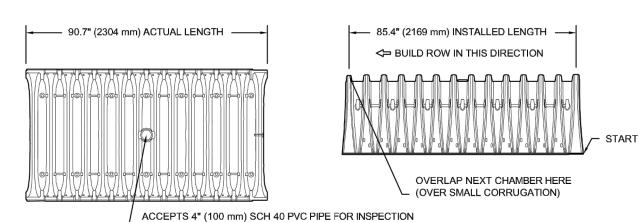
- 2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION
- 3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL
- 4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE
- 5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

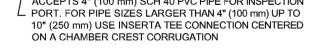
WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.

6. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

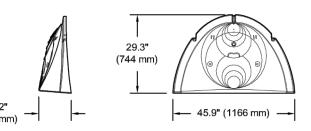


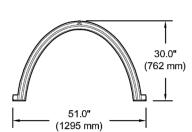
SC-740 TECHNICAL SPECIFICATION





75.0 lbs.





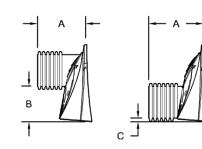


1 OF

51.0" X 30.0" X 85.4" (1295 mm X 762 mm X 2169 mm) 45.9 CUBIC FEET (1.30 m³) 74.9 CUBIC FEET (2.12 m³)

(33.6 kg)





JBS	ΑТ	вотт	ГОМ	OF	END	CAP	FOR	PAR	T NU	MBEF	RS EI	NDIN	G WI	TH '	Έ
JBS	ΑT	TOP	OF E	ND	CAP	FOR	PAR	T NU	MBE	RS EN	NDIN	G WI	TH "T	"	

– 4" WITDH

SEE DETAIL

ACCESSIBLE PARKING

Accessible Parking Space

(PAINTED BLUE)

ACCESS AISLE

(8' MIN FOR VAN)

AREAS SHALL NOT EXCEED 1.5%.

1. ALL DIMENSIONS TO EDGES OF 4" PAVEMENT STRIPING.

2. 8' STALL WIDTH REFERS TO 8' CLEAR BETWEEN INSIDE EDGES OF

3. ALL SLOPES THROUGHOUT THE ACCESSIBLE PARKING AND AISLE

4. ACCESS AISLE MEASURED BETWEEN OUTSIDE EDGES OF PAVEMENT

24" ON CENTER

(PAINTED BLUE)

DETAIL

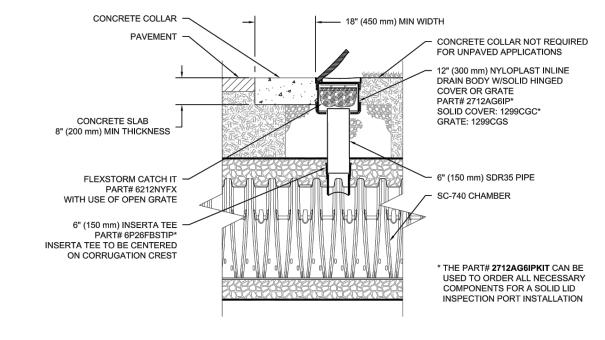
RESISTANT

(PAINTED WHITE)

PART#	STUB	Α	В	С
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	
SC740EPE06B / SC740EPE06BPC	0 (130 11111)	10.9 (27711111)		0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	8" (200 mm) 12.2" (310 mm)		
SC740EPE08B / SC740EPE08BPC	0 (200 11111)	12.2 (31011111)		0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	
SC740EPE10B / SC740EPE10BPC	10 (23011111)	15.4 (540 11111)		0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	2" (300 mm) 14.7" (373 mm)	12.5" (318 mm)	
SC740EPE12B / SC740EPE12BPC	12 (300 11111)	14.7 (3/3/1111)		1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	
SC740EPE15B / SC740EPE15BPC	15 (5/511111)	10.4 (407 11111)		1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	
SC740EPE18B / SC740EPE18BPC	16 (43011111)	19.7 (300 11111)		1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)		0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL. NOTE: ALL DIMENSIONS ARE NOMINAL



SC-740 6" INSPECTION PORT DETAIL

— 5000 PSI CEMENT CONCRETE (TYPE II) 6% (1%±) AIR ENTRAINED

EACH WAY

– BITUMINOUS CONCRETE

Hotel & Residential Development

PO Box 9151

617.924.1770

Watertown, MA 02471

0-20 Inner Belt Road Somerville, Massachusetts

No. Revision

City Comments

Designed by	Checked by
SKE	CPN
Issued for	Date

January 3, 2019 CPN

October 10, 2018 Local Approvals

Not Approved for Construction



3. PAD SHALL MEET EVERSOURCE SPECIFICATIONS.

2. CONSTRUCTION JOINTS SHALL BE SPACED NO MORE THAN 30 FEET ON

CENTER AND SHALL BE EQUALLY SPACED OVER THE LENGTH AND

COMPACTED

— COMPACTED SUBGRADE

GRAVEL

1. SIZE OF COMPACTOR PAD TO BE AS INDICATED ON PLANS.

WIDTH OF THE PAD.

Concrete Pad Source: VHB



Record Owner

PARCEL ONE

PARCEL I-1

PARADIGM DIRECT ROLAND LLC MAP 107 BLOCK B LOT 1A MIDDLESEX REGISTRY BOOK 63061, PAGE 120 (AS TO PARCEL I-1)

PARCEL I-1A SOMERVILLE CITY CLUB, INC MAP 107 BLOCK B LOT 1 MIDDLESEX REGISTRY BOOK 13780, PAGE 679 (AS TO PARCEL I-1A)

Property Notes

ALL DIMENSION SHOWN ARE THE RESULT OF A GROUND SURVEY AND MATCH THE RECORD DEED DIMENSIONS UNLESS OTHERWISE NOTE WITH A (D) REFERRING TO THE DEED DIMENSION

THE AREA OF PARCEL I-1A REFLECTS THE RECORD DESCRIPTION OF THE PARCEL. HOWEVER THERE WAS A TAKING BY MASSDOT IN 1972 STATE HIGHWAY LAYOUT #6111, WHICH TOOK 1,912 S.F. OF LAND. VHB DID NOT FIND ANY EVIDENCE THAT THE LAND WAS NOT TAKEN OR GIVEN BACK TO THE SOMERVILLE CITY CLUB.



General Notes

- 1) THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VHB, INC. ON JANUARY 17, 2017 AND FROM DEEDS AND PLANS OF RECORD. SEE PROPERTY NOTE HEREON.
- 2) THE EXISTING CONDITIONS SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VHB, INC. IN JANUARY,
- 3) THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS AND INFORMATION OF RECORD. THEY ARE NOT WARRANTED TO BE EXACTLY LOCATED NOR IS IT WARRANTED THAT ALL UNDERGROUND UTILITIES OR OTHER STRUCTURES ARE SHOWN ON THIS PLAN.
- 4) HORIZONTAL DATUM IS BASED ON MASS. GRID SYSTEM, NAD 1983.
- 5) THE LOT LIES ENTIRELY WITHIN ZONE X (UNSHADED) (AREAS TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR MIDDLESEX COUNTY, MASSACHUSETTS, MAP NUMBER 25017C0439E, EFFECTIVE DATE JUNE 4, 2010.
- 6) THE LOT LIES ENTIRELY WITHIN THE COMMERCIAL RESIDENTIAL DISTRICT (BB) AS SHOWN ON THE "CITY OF SOMERVILLE, MASSACHUSETTS, CURRENT OFFICIAL ZONING MAP", DATED NOVEMBER 26, 2013. DIMENSIONAL REQUIREMENTS FOR A (BB) AT THE TIME OF THIS SURVEY ARE:

		REQUIRED	REQUIRED**
MINIMUM	LOT AREA	N/A	
MINIMUM	FRONTAGE	N/A	
MINIMUM	FRONT YARD SETBACK	15 FEET	12 FEET
MINIMUM	SIDE YARD SETBACK	N/A FEET	10 FEET
MINIMUM	REAR YARD SETBACK	10+2 FT./EA. STO	DRY
MAXIMUM	BUILDING HEIGHT	50 FEET	

**SEE DOCUMENTS LISTED IN TITLE NOTES EXCEPTIONS #14 & 15

- 7) NO WETLAND IDENTIFICATION WAS OBSERVED.
- 8) BOTH PARCELS HAVE DIRECT ACCESS TO INNER BELT ROAD.



101 Walnut Street PO Box 9151 Watertown, MA 02471 617.924.1770

Legend DRAIN MANHOLE ■ CATCH BASIN S SEWER MANHOLE © ELECTRIC MANHOLE TELEPHONE MANHOLE MANHOLE HH HAND HOLE WATER GATE FIRE HYDRANT GAS GATE ◆ BOLLARD w/LIGHT -- STREET SIGN □ LIGHT POLE -O- UTILITY POLE O- GUY POLE GUY WIRE MONITORING WELL FLOOD LIGHT WELL WELL W MARSH F.F.E.=45.27 FINISHED FLOOR ELEVATION CNO COULD NOT OPEN

NPV NO PIPES VISIBLE DYL DOUBLE YELLOW LINE DWL DASHED WHITE LINE SYL SINGLE WHITE LINE LSA LANDSCAPED AREA
— EDGE OF PAVEMENT CONCRETE CURB — VERTICAL GRANITE CURB

— SLOPED GRANITE EDGE BITUMINOUS BERM BITUMINOUS CURB — GUARD RAIL ---- DRAINAGE LINE — — — — SEWER LINE — OVERHEAD WIRE UNDERGROUND ELECTRIC T- TELEPHONE LINE

- G - GAS LINE OOOOOOO STONE WALL TREE LINE - 100'BZ 100-FT BUFFER ZONE 100'RA 100-FT RIVER FRONT AREA -----200'RA--- 200-FT RIVER FRONT AREA

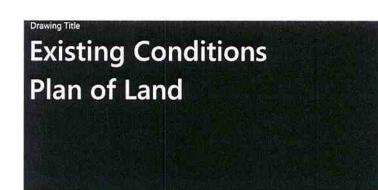
— OAF1-100 · — LIMIT MEAN ANNUAL HIGH WATER LIMIT OF BANK
WET-100 VEGETATED WETLAND BOUNDARY

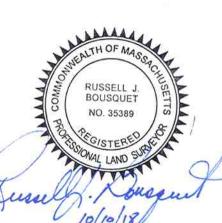
Criterion Development

Inner Belt Road Somerville Massachusetts

No.	Revision	Date	Appvd		
	22.444.00				
Designed by		Checked by			

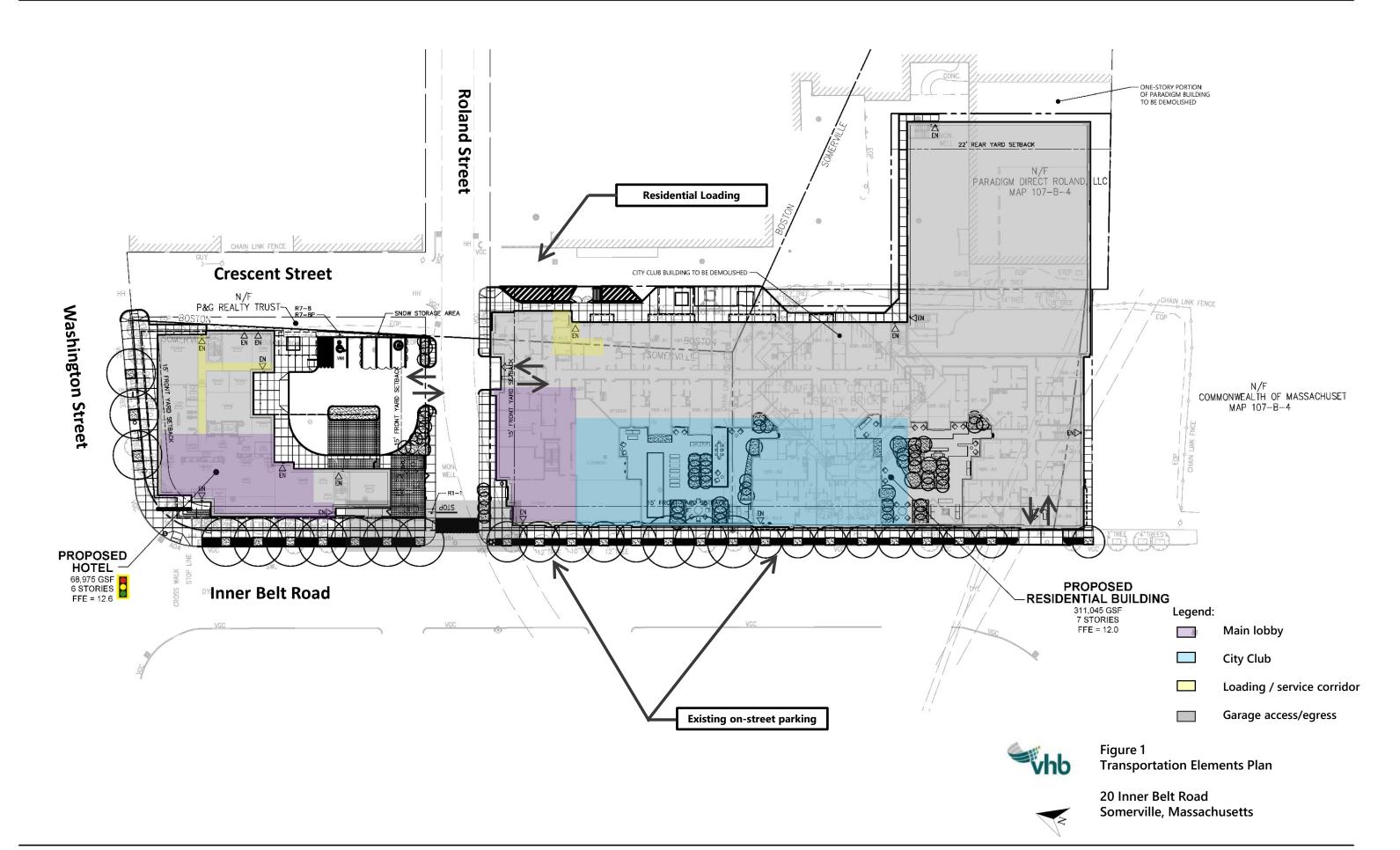
August 9, 2018







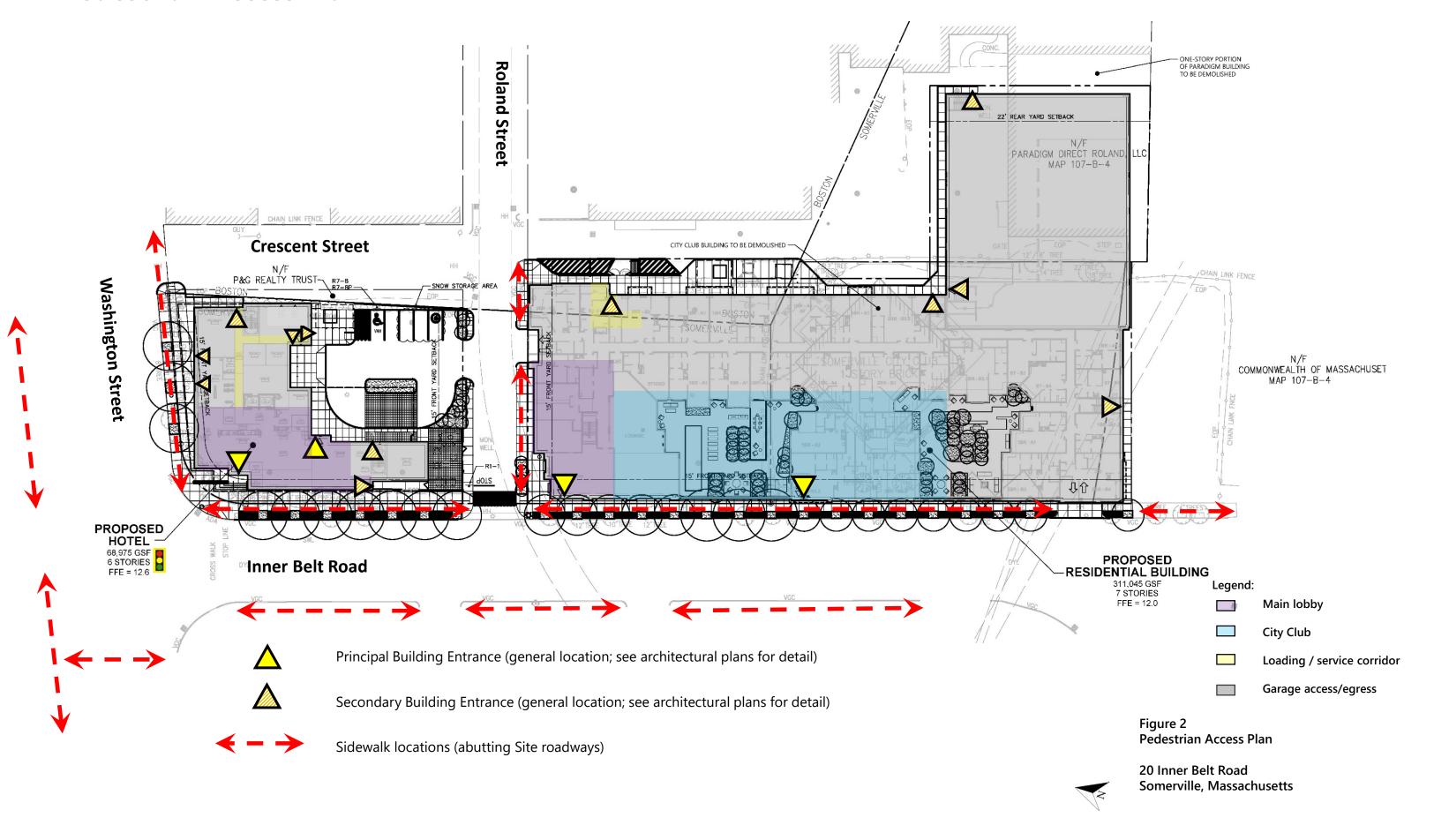
> Transportation Elements Plan





> Pedestrian Access Plan

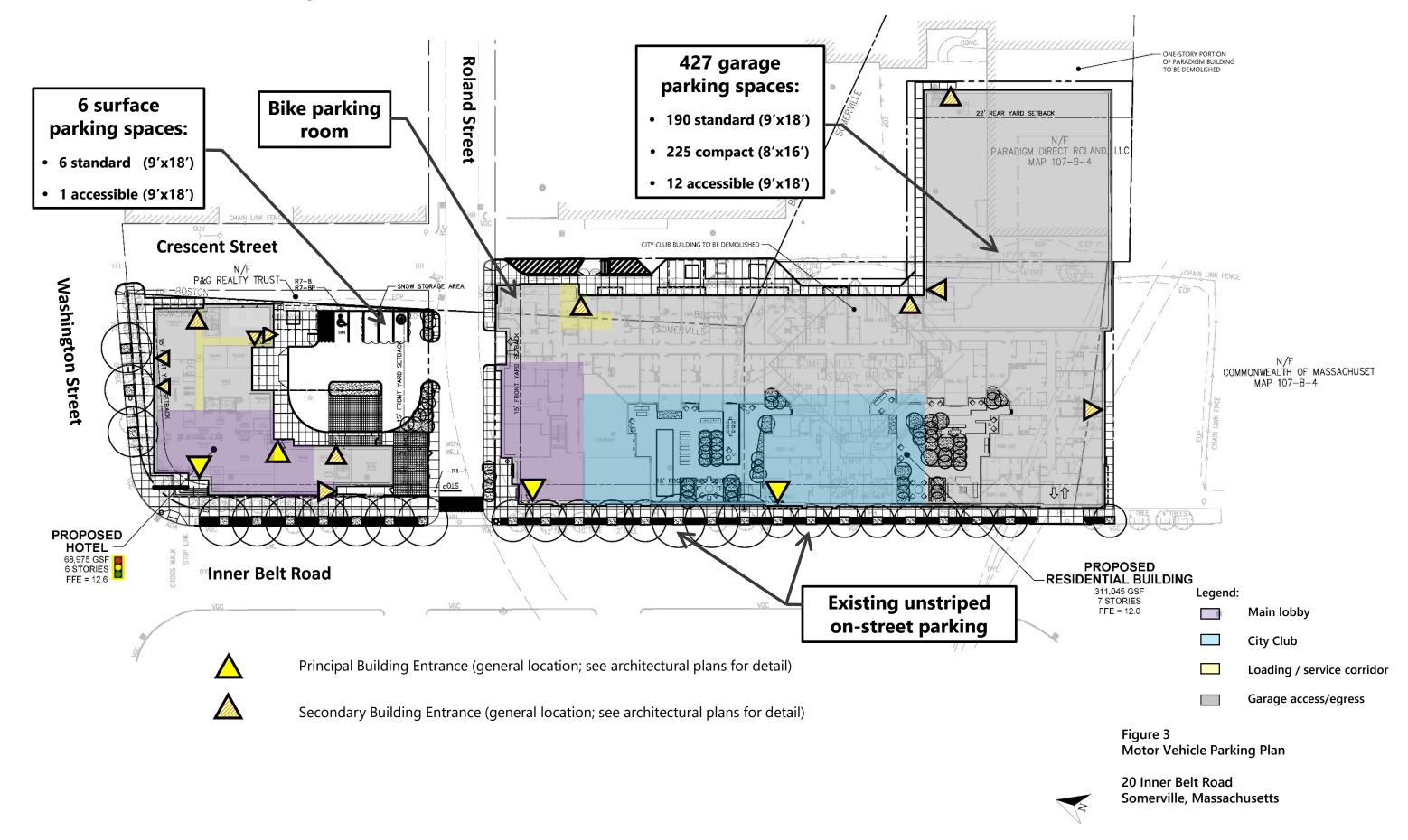
Pedestrian Access Plan





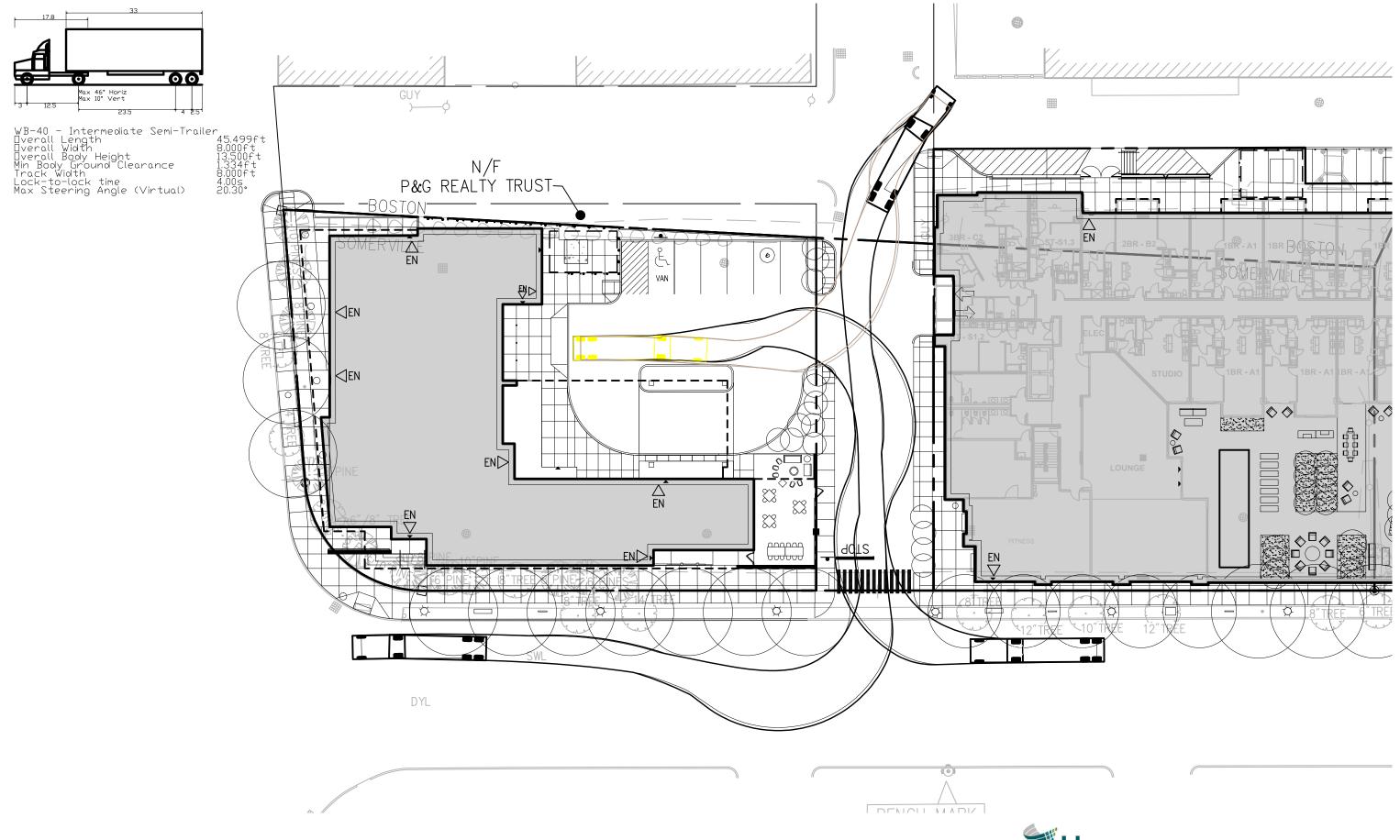
> Motor Vehicle Parking Plan

Motor Vehicle Parking Plan

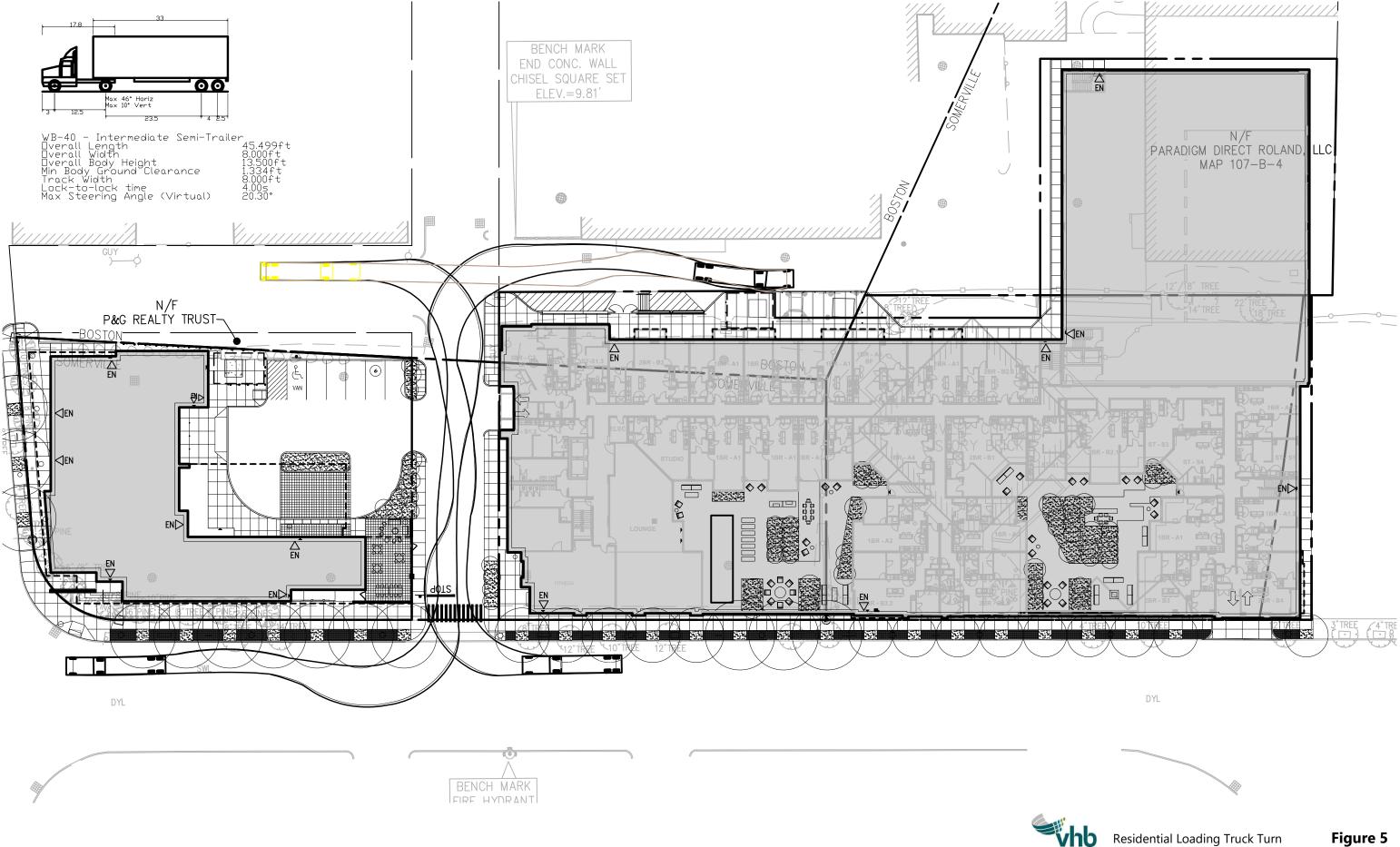




> Vehicle Tracking Diagrams – January 3, 2019



Hotel Loading Truck Turn 20 Inner Belt Road Development Somerville, Massachusetts



20 Inner Belt Road Development Somerville, Massachusetts