Site Plans

Issued for: **Final Level PUD Approval- Final Submission**

Date Issued: November 21, 2014

Latest Issue: November 21, 2014

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Assembly Row Block 5

Assembly Row
Somerville, Massachusetts



Site Location Map

0 1000 2000 Feet

Property Owners

Federal Realty
INVESTMENT TRUST

Owner/Applicant:
SRI Assembly Row B5
1626 East Jefferson Street
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COMMONWEALTH OF MASSACHUSETTS
RICHARD P. MATHEWS JR.
CIVIL
No. 41646
REGISTERED PROFESSIONAL ENGINEER

Digitally signed by Richard P. Mathews Jr., PE
Date: 2014.11.21 10:30:18-05'00'

VHB Project No. 08518.05
Assembly Row, Somerville, Massachusetts
Issued for: Final Level PUD Approval- Final Sumbission

Legend

Exist.	Prop.	
		PROPERTY LINE
		PROJECT LIMIT LINE
		RIGHT-OF-WAY/PROPERTY LINE
		EASEMENT
		BUILDING SETBACK
		PARKING SETBACK
10+00	10+00	BASELINE
		CONSTRUCTION LAYOUT
		ZONING LINE
		TOWN LINE
		LIMIT OF DISTURBANCE
		WETLAND LINE WITH FLAG
		FLOODPLAIN
BLSF		BORDERING LAND SUBJECT TO FLOODING
BZ		WETLAND BUFFER ZONE
NDZ		NO DISTURB ZONE
200'RA		200' RIVERFRONT AREA
		GRAVEL ROAD
EOP		EDGE OF PAVEMENT
BB	BB	BITUMINOUS BERM
BC	BC	BITUMINOUS CURB
CC	CC	CONCRETE CURB
	CG	CURB AND GUTTER
CC	ECC	EXTRUDED CONCRETE CURB
CC	MCC	MONOLITHIC CONCRETE CURB
CC	PCC	PRECAST CONC. CURB
SGE	SGE	SLOPED GRAN. EDGING
VGC	VGC	VERT. GRAN. CURB
		LIMIT OF CURB TYPE
		SAWCUT
		BUILDING
	EN	BUILDING ENTRANCE
	LD	LOADING DOCK
		BOLLARD
D	D	DUMPSTER PAD
		SIGN
		DOUBLE SIGN
		STEEL GUARDRAIL
		WOOD GUARDRAIL
		PATH
		TREE LINE
		WIRE FENCE
		FENCE
		STOCKADE FENCE
		STONE WALL
		RETAINING WALL
		STREAM / POND / WATER COURSE
		DETENTION BASIN
		HAY BALES
		SILT FENCE
4	4	MINOR CONTOUR
20	20	MAJOR CONTOUR
(10)	(10)	PARKING COUNT
	(C10)	COMPACT PARKING STALLS
DYL	DYL	DOUBLE YELLOW LINE
SL	SL	STOP LINE
		CROSSWALK
		ACCESSIBLE CURB RAMP
		ACCESSIBLE PARKING
VAN	VAN	VAN-ACCESSIBLE PARKING

Exist.	Prop.	
		CONCRETE
		HEAVY DUTY PAVEMENT
		RIPRAP
		CONSTRUCTION ENTRANCE
27.35 TC×	27.35 TC×	TOP OF CURB ELEVATION
26.85 BC×	26.85 BC×	BOTTOM OF CURB ELEVATION
132.75×	132.75×	SPOT ELEVATION
45.0 TW× 38.5 BW×	45.0 TW× 38.5 BW×	TOP & BOTTOM OF WALL ELEVATION
		BORING LOCATION
		TEST PIT LOCATION
MW	MW	MONITORING WELL
UD	UD	UNDERDRAIN
12"D	12"D	DRAIN
6"RD	6"RD	ROOF DRAIN
12"S	12"S	SEWER
FM	FM	FORCE MAIN
OHW	OHW	OVERHEAD WIRE
6"W	6"W	WATER
4"FP	4"FP	FIRE PROTECTION
	2"DW	DOMESTIC WATER
3"G	G	GAS
E	E	ELECTRIC
STM	STM	STEAM
T	T	TELEPHONE
FA	FA	FIRE ALARM
CATV	CATV	CABLE TV
		CATCH BASIN
		DOUBLE CATCH BASIN
		GUTTER INLET
		DRAIN MANHOLE
TD		TRENCH DRAIN
		PLUG OR CAP
CO	CO	CLEANOUT
		FLARED END SECTION
		HEADWALL
S	S	SEWER MANHOLE
CS	CS	CURB STOP & BOX
WV	WV	WATER VALVE & BOX
TSV	TSV	TAPPING SLEEVE, VALVE & BOX
		SIAMESE CONNECTION
HYD	HYD	FIRE HYDRANT
WM	WM	WATER METER
PIV	PIV	POST INDICATOR VALVE
W	W	WATER WELL
GG	GG	GAS GATE
GM	GM	GAS METER
E	EMH	ELECTRIC MANHOLE
EM	EM	ELECTRIC METER
		LIGHT POLE
T	TMH	TELEPHONE MANHOLE
T	T	TRANSFORMER PAD
		UTILITY POLE
		GUY POLE
		GUY WIRE & ANCHOR
HH	HH	HAND HOLE
PB	PB	PULL BOX
Matchline	Matchline	MATCHLINE

Abbreviations

General

ABAN	ABANDON
ACR	ACCESSIBLE CURB RAMP
ADJ	ADJUST
APPROX	APPROXIMATE
BIT	BITUMINOUS
BS	BOTTOM OF SLOPE
BWLL	BROKEN WHITE LANE LINE
CONC	CONCRETE
DYCL	DOUBLE YELLOW CENTER LINE
EL	ELEVATION
ELEV	ELEVATION
EXIST	EXISTING
FDN	FOUNDATION
FFE	FIRST FLOOR ELEVATION
GRAN	GRANITE
GTD	GRADE TO DRAIN
LA	LANDSCAPE AREA
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PERF	PERFORATED
PROP	PROPOSED
REM	REMOVE
RET	RETAIN
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
SWEL	SOLID WHITE EDGE LINE
SWLL	SOLID WHITE LANE LINE
TS	TOP OF SLOPE
TYP	TYPICAL

Utility

CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
DCB	DOUBLE CATCH BASIN
DMH	DRAIN MANHOLE
CIP	CAST IRON PIPE
COND	CONDUIT
DIP	DUCTILE IRON PIPE
FES	FLARED END SECTION
FM	FORCE MAIN
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
GI	GUTTER INLET
GT	GREASE TRAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HH	HANDHOLE
HW	HEADWALL
HYD	HYDRANT
INV	INVERT ELEVATION
I=	INVERT ELEVATION
LP	LIGHT POLE
MES	METAL END SECTION
PWW	PAVED WATER WAY
PVC	POLYVINYLCHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
R=	RIM ELEVATION
SMH	SEWER MANHOLE
TSV	TAPPING SLEEVE, VALVE AND BOX
UG	UNDERGROUND
UP	UTILITY POLE

Notes:

General

1. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
3. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE SIX INCHES LOAM AND SEED.
4. 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.
5. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS 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 APPROPRIATE PERMITS.
6. 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.
7. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE 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 IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
8. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
9. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
10. 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 NO COST TO OWNER.
11. 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 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.

Utilities

1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR IT'S REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT 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 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.
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING 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 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 ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
3. A MAJORITY OF THE UTILITY IMPROVEMENTS WITHIN THE EXISTING AND FUTURE ASSEMBLY SQUARE DRIVE ROADWAY LIMITS HAVE BEEN CONSTRUCTED BY OTHERS IN 2009. THIS WORK WAS PROPOSED UNDER THE "ASSEMBLY SQUARE UTILITY IMPROVEMENTS" PLANS DATED JULY 3, 2009, REVISED THROUGH AUGUST 1, 2009. AVAILABLE AS-BUILT INFORMATION IS SHOWN ON THESE PLANS BUT SHALL BE VERIFIED BY THE CONTRACTOR. COMPLETE AS-BUILT PLANS WILL BE FURNISHED UPON REQUEST.
4. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS. RIM ELEVATIONS ON THE GRADING AND UTILITY PLANS ARE FOR AN INTERIM GRADING CONDITION. CONTRACTOR TO ALLOW FOR SIX INCHES OF ADJUSTMENT OF RIM ELEVATIONS TO MATCH FUTURE PROPOSED ROADWAY ELEVATIONS.
5. LOCATE UTILITY STRUCTURES INCLUDING CATCH BASINS, VALVES, MANHOLES AND HYDRANTS IN ACCORDANCE WITH COORDINATES ON THE UTILITY PLANS. COORDINATES ON THE GRADING PLANS ARE REFERENCED TO THE CENTER POINT OF THE SUBSURFACE STRUCTURE.
6. 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 SHALL BE SET/RESET AS FOLLOWS:

   A. PAVEMENTS AND CONCRETE SURFACES: FLUSH

   B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH

   C. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.
7. HYDRANT ELEVATIONS REPRESENT THE FUTURE SIDEWALK GRADE BENEATH HYDRANT GRATE
8. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY 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 LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
9. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR 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 THE UTILITIES COMPANY.
10. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:

    A. WATER PIPES SHALL BE POLYETHYLENE ENCASED, CEMENT LINED, DUCTILE IRON, CLASS 52. WATER JOINTS SHALL BE MEGALUG OR EQUIVALENT.
    B. SANITARY SEWER PIPES SHALL BE POLYVINYL CHLORIDE (PVC) SEWER PIPE- SDR35
    C. STORM DRAINAGE PIPES SHALL BE REINFORCED CONCRETE PIPE (RCP). STORM DRAINAGE PIPES 18 INCHES AND SMALLER SHALL BE CLASS V. LARGER PIPES SHALL BE CLASS III UNLESS OTHERWISE NOTED.
    D. PIPE INSTALLATION AND MATERIALS SHALL COMPLY WITH THE STATE PLUMBING CODE WHERE APPLICABLE. CONTRACTOR SHALL COORDINATE WITH LOCAL PLUMBING INSPECTOR PRIOR TO BEGINNING WORK.
11. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL 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 INDICATED ON THE DRAWINGS.
12. 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 MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.
13. THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING (DRAINAGE, SEWER, FIRE ALARM, ETC.) STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE.
14. ALL LATERAL DRAIN PIPES SHALL BE INSTALLED WITH A PITCH OF 0.01 FOOT PER FOOT (MINIMUM) UNLESS NOTED OTHERWISE ON THE DRAWINGS.

Layout and Materials

8. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
9. 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.
10. 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 FEATURES. PIPE LENGTHS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR FINAL DETERMINATION OF REQUIRED PIPE LENGTHS.
11. 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.

Demolition

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.
2. 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.

Erosion Control

1. 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, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO 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. THE PROPERTY LINES SHOWN WERE DETERMINED BY AN ACTUAL FIELD SURVEY PERFORMED BY VANASSE HANGEN BRUSTLIN, INC. BETWEEN APRIL 2004 AND MARCH OF 2006 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 VANASSE HANGEN BRUSTLIN, INC. IN APRIL OF 2004, UPDATED IN MARCH OF 2006, UPDATED IN MARCH OF 2010, UPDATED IN MARCH OF 2012 AS WELL AS A PLAN ENTITLED "AS BUILT PLAN OF LAND ASSEMBLY SQUARE MALL, SOMERVILLE, MA" BY DANA PERKINS, DATED SEPTEMBER 12, 1997, REVISED NOVEMBER 1, 1999, SUPPLEMENTED BY AS BUILT INFORMATION FROM THE ASSEMBLY SQUARE DRIVE UTILITY INFRASTRUCTURE CONSTRUCTION.

   UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON FIELD OBSERVATIONS AND INFORMATION OF RECORD. THEY ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND UTILITIES OR OTHER STRUCTURES ARE SHOWN ON THIS PLAN.
2. ELEVATIONS SHOWN ARE BASED UPON USCGS, NATIONAL GEODETIC VERTICAL DATUM OF 1929 AND WERE INITIATED AT BENCHMARK #11000, A MASSACHUSETTS GEODETIC SURVEY DISC.
3. THE PROJECT AREA IS PRIMARILY WITHIN ZONE C, AREA OF MINIMAL FLOODING, AND INCLUDES AREA WITHIN ZONE A2, AREAS OF 100 YEAR FLOOD (BELOW ELEVATION 10), AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP FOR THE CITY SOMERVILLE, MASSACHUSETTS COMMUNITY PANEL NUMBER 250214 0001 B, EFFECTIVE DATE JULY 17, 1986.
4. MEAN HIGH WATER (MHW), MEAN SEA LEVEL (MSL) AND MEAN LOW WATER (MLW) ELEVATIONS WERE OBTAINED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) TIDES AND CURRENTS WEBSITE; BOSTON HARBOR TIDE GAUGING STATION 8443970 AND CONVERTED TO NGVD 1929 DATUM AT THE AMELIA EARHART DAM.

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No.	Revision	Date	Appvd.

Designed by | Drawn by NL | Checked by RPM
CAD checked by | Approved by HGH
Scale NTS | Date November 21, 2014

Project Title
Assembly Row
Block 5

Assembly Row
Somerville, Massachusetts

Issued for
Final Level PUD Approval-
Final Submission
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Drawing Title
Legend and
General Notes

Drawing Number
C-1

Sheet 1 of 12

Project Number
08518.05

\\VHB\PROJ\WAT-LD\08518.05\CAD\LD\PLANSET\BLOCK 5 - SPECIAL PERMIT\0851805_BL5SP-NCM

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Designed by | Drawn by NL | Checked by RPM
CAD checked by | Approved by HGH
Scale 1"=100' | Date November 21, 2014

Project Title
Assembly Row
Block 5

Assembly Row
Somerville, Massachusetts

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Drawing Title
Neighborhood
Context Map 1

Drawing Number
C-2

Sheet 2 of 12

Project Number
08518.05

0851805_BL5SP-NCM.DWG

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CAD checked by | Approved by HGH
Scale 1"=100' | Date November 21, 2014

Project Title
Assembly Row
Block 5

Assembly Row
Somerville, Massachusetts

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Drawing Title
Neighborhood
Context Map 2

Drawing Number
C-3

Sheet 3 of 12

Project Number
08518.05

0851805_BL5SP-NCM.DWG

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Parking Summary Chart

Description	Size		Office	Retail	Restaurant	Residential	Hotel	Cinema	Health Club	Mall	
	Required	Provided	Required	Required	Required	Required	Required	Required	Required	Required	Provided
STANDARD SPACES	9' x 18'	9' x 18'	2,763	367	289	1,814	81	57	96	1,038	1,072
STANDARD ACCESSIBLE SPACES*	13' x 18'	14' x 18'	32	6	5	24	3	2	3	17	17
VAN ACCESSIBLE SPACES*	16' x 18'	17' x 18'	7	2	2	5	1	1	1	4	6
TOTAL SPACES			2,802	375	296	1,843	85	60	100	1,059	1,095

* ADA/STATE/LOCAL REQUIREMENTS (MINIMUM)

Mixed Use Area Loading Requirements:

OFFICE:	0 – 10,000 SF	(0)	= 19
	10,001 – 100,000 SF	(1)	
	EACH ADDL. 150,000 SF	(1)	
RETAIL:	0 – 5,000 SF	(0)	= 10
	5,001 – 20,000 SF	(1)	
	20,001 – 35,000 SF	(2)	
	35,001 – 50,000 SF	(3)	
	EACH ADDL. 50,000 SF	(1)	
RESTAURANT:	0 – 4,000 SF	(0)	= 6
	4,001 – 6,000 SF	(1)	
	6,001 – 16,000 SF	(2)	
	16,001 – 40,000 SF	(3)	
	EACH ADDL. 40,000 SF	(1)	
HOTEL:	AS NEEDED		= 1
CINEMA:	AS NEEDED		= 1
HEALTH CLUB:	AS NEEDED		= 1

TOTAL LOADING REQUIRED = 38
TOTAL LOADING PROVIDED = 38

Mixed Use Area Parking Requirements:*

OFFICE	2,801,033 SF x 1 SPACE / 1,000 SF = 2,802
RETAIL	374,707 SF x 1 SPACE / 1,000 SF = 375
RESTAURANT	147,817 SF x 1 SPACE / 500 SF = 296
CINEMA	60,000 SF x 1 SPACE / 1,000 SF = 60
HEALTH CLUB	50,000 SF x 1 SPACE / 500 SF = 100
RESIDENTIAL	1,843 UNITS x 1 SPACE / UNIT = 1,843
HOTEL	170 GUEST ROOMS x 0.5 SPACES/GUEST ROOM = 85

TOTAL PARKING REQUIRED = 5,561
TOTAL PARKING PROVIDED = 9,815

*RETAIL AREA MAY BE RE-ALLOCATED TO OFFICE OR RESIDENTIAL USES AT ANY TIME, SO LONG AS ALSO PERMITTED BY NEW OR MODIFIED APPLICABLE ENTITLEMENTS; NO OTHER USE MAY BE CONVERTED.

RESIDENTIAL AREA MAY BE RE-ALLOCATED TO OFFICE USE AT ANY TIME, SO LONG AS PERMITTED BY NEW OR MODIFIED ENTITLEMENTS; AND

UP TO 400,000 SQUARE FEET OF THE NON-RESIDENTIAL USES (I.E., OFFICE, RETAIL, AND HOSPITALITY) MAY BE RE-ALLOCATED TO RESIDENTIAL USE, BUT NO SOONER THAN 10 YEARS FROM THE DATE THE PUD PLAN IS APPROVED, SO LONG AS PERMITTED BY NEW OR MODIFIED APPLICABLE ENTITLEMENTS.

Mall Parking Requirements:

RETAIL (ZONING)	328,806 SF x 1 SPACE / 1000 SF = 329
BLOCK 10 (MAX. ZONING)	4,500 SF x 1 SPACE / 500 SF = 9
RETAIL (LEASE)	328,806 SF x 3.22 SPACE / 1000 SF = 1,059

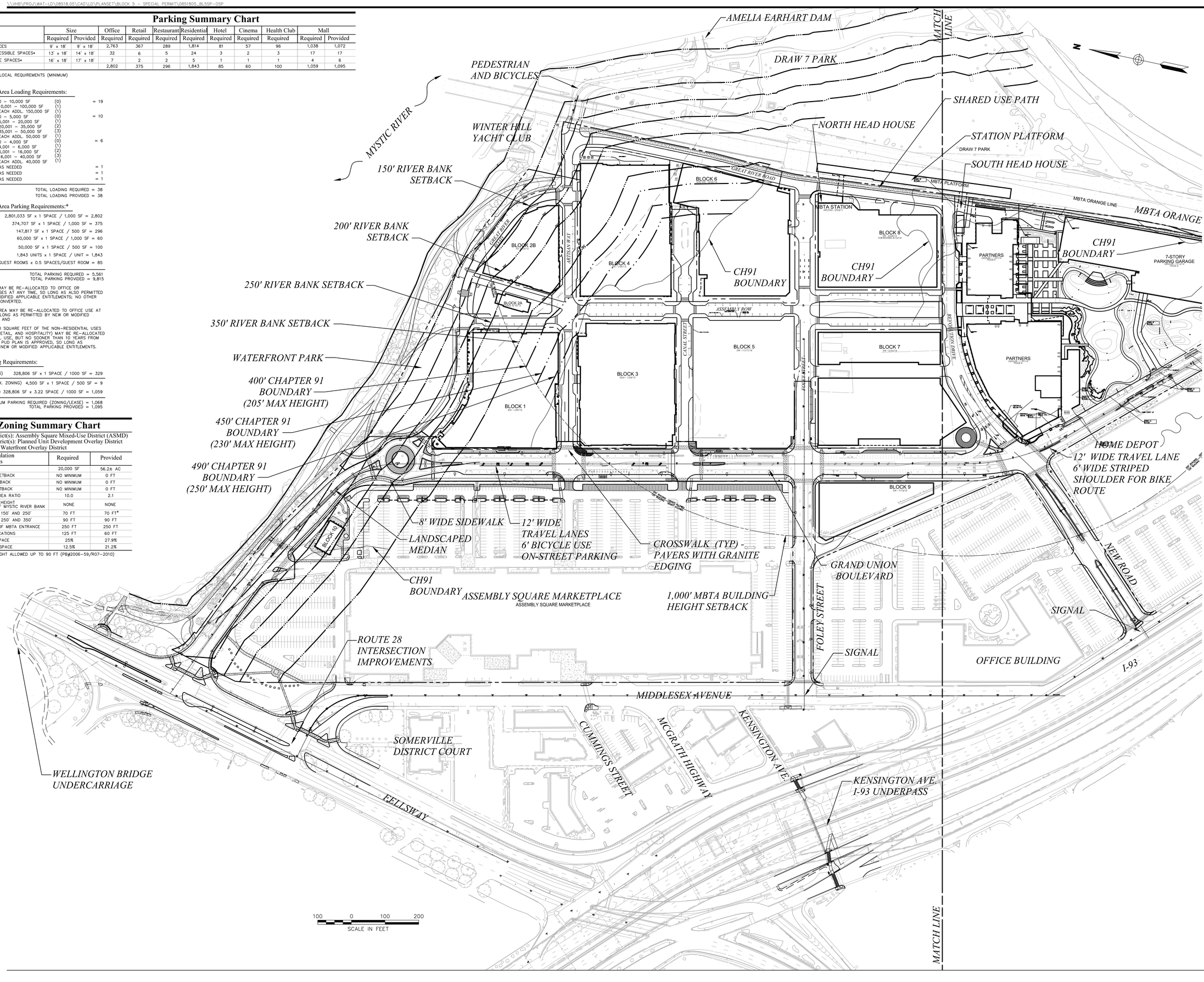
MAXIMUM PARKING REQUIRED (ZONING/LEASE) = 1,068
TOTAL PARKING PROVIDED = 1,095

Zoning Summary Chart

Zoning District(s): Assembly Square Mixed-Use District (ASMD)
Overlay District(s): Planned Unit Development Overlay District A (PUD-A), Waterfront Overlay District

Zoning Regulation Requirements	Required	Provided
MIN. LOT AREA	20,000 SF	56.2± AC
FRONT YARD SETBACK	NO MINIMUM	0 FT
SIDE YARD SETBACK	NO MINIMUM	0 FT
REAR YARD SETBACK	NO MINIMUM	0 FT
MAX. FLOOR AREA RATIO	10.0	2.1
MAX. BUILDING HEIGHT		
< 150' OF MYSTIC RIVER BANK	NONE	NONE
BETWEEN 150' AND 250'	70 FT	70 FT*
BETWEEN 250' AND 350'	90 FT	90 FT
WITHIN 1,000' OF MBTA ENTRANCE	250 FT	250 FT
ALL OTHER LOCATIONS	125 FT	60 FT
TOTAL OPEN SPACE	25%	27.9%
USABLE OPEN SPACE	12.5%	21.2%

* BLOCK 2 HEIGHT ALLOWED UP TO 90 FT (PB#2006-59/R07-2010)



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No.	Revision	Date	Appvd

Designed by | Drawn by | Checked by
CAD checked by | Approved by
Scale 1"=100' | Date November 21, 2014

Project Title
Assembly Row
Block 5

Assembly Row
Somerville, Massachusetts

Issued for
Final Level PUD Approval-
Final Submission
Not Approved for Construction

Drawing Title
Overall Site Plan 1

Drawing Number
C-4

Sheet 4 of 12

Project Number
08518.05

\\VHB\PROJ\WAT-LD\08518.05\CAD\LD\PLANSET\BLOCK 5 - SPECIAL PERMIT\0851805_BL5SP-OSP.

Saved: Friday, November 21, 2014 9:54:51 AM NUAN Plotted: Friday, November 21, 2014 10:27:05 AM Lian, Ni

AMELIA EARHART DAM

MATCH LINE

DRAW 7 PARK

SHARED USE PATH

NORTH HEAD HOUSE

STATION PLATFORM

DRAW 7 PARK

SOUTH HEAD HOUSE

GREAT RIVER ROAD

BLOCK 6

MBTA PLATFORM

MBTA STATION

MBTA ORANGE LINE

MBTA ORANGE LINE

FUTURE POTENTIAL SHARED USE PATH

BLOCK 8

CH91 BOUNDARY

CH91 BOUNDARY

PARTNERS

CH91 BOUNDARY

7-STORY PARKING GARAGE

LANDSCAPED MEDIAN

ASSEMBLY SQUARE GATEWAY

ASSEMBLY ROW

REVOLUTION DRIVE

CANAL STREET

BLOCK 5

BLOCK 7

PARTNERS

SIDEWALKS ON BOTH SIDES OF GRAND UNION BOULEVARD

INTERSECTION IMPROVEMENTS

SIGNAL LOMBARDI

LANDSCAPED MEDIAN

HOME DEPOT

12' WIDE TRAVEL LANE

6' WIDE STRIPED SHOULDER FOR BIKE ROUTE

MYSTIC AVE.

SIGNAL

MT. VERNON ST.

BROADWAY

BLOCK 9

NEW ROAD

GRAND UNION BOULEVARD

FOLEY STREET

SIGNAL

SIGNAL

OFFICE BUILDING

I-93

KENSINGTON AVE.

KENSINGTON AVE. I-93 UNDERPASS

MATCH LINE

100 0 100 200

SCALE IN FEET

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Project Title

Assembly Row
Block 5

Assembly Row
Somerville, Massachusetts

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Not Approved for Construction

Drawing Title

Overall Site Plan 2

Drawing Number

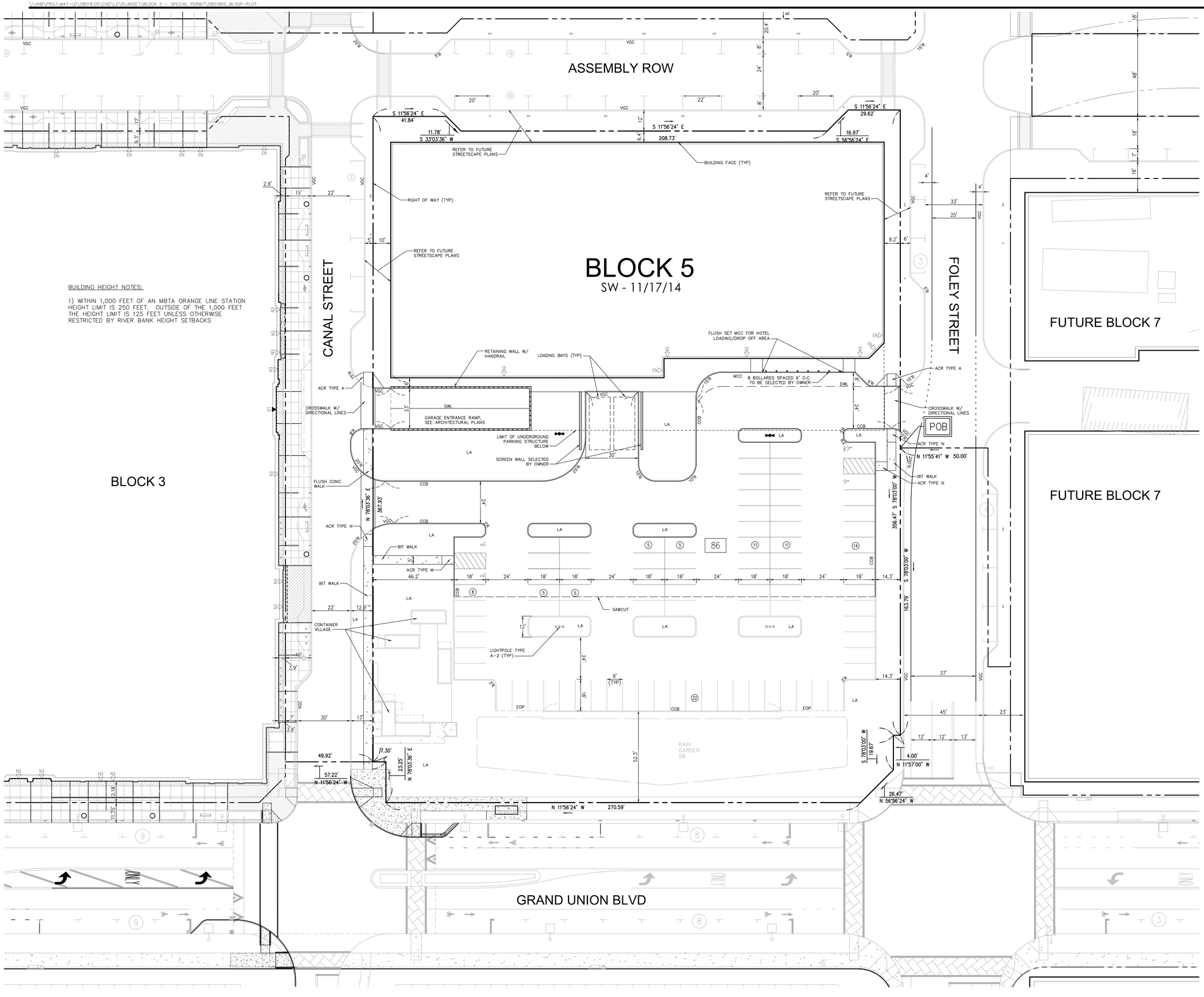
C-5

Sheet 5 of 12

Project Number
08518.05

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Zoning Summary Chart

Zoning District(s): Assembly Square Mixed-Use District (ASMD)
Overlay District(s): Planned Unit Development Overlay District A (PUD-A), Waterfront Overlay District

Zoning Regulation Requirements	Required	Provided
MIN. LOT AREA (PROJECT AREA)	20,000 SF	115,382 SF*
FRONTAGE (ASSEMBLY ROW)	–	300 FT*
FRONT YARD SETBACK (ASSEMBLY R.)	NO MINIMUM	6.4 FT*
SIDE YARD SETBACK (LEFT)	NO MINIMUM	10.0 FT*
SIDE YARD SETBACK (RIGHT)	NO MINIMUM	9.2 FT*
REAR YARD SETBACK	NO MINIMUM	242.2 FT*
MAX. FLOOR AREA RATIO	10.0	1.9
WITHIN 1,000' OF MBTA ENTRANCE	250 FT	157'-10"
ALL OTHER LOCATIONS	125 FT	N/A
TOTAL OPEN SPACE	25%	9.1%*
USABLE OPEN SPACE	12.5%	6.4%*

* BASED ON PROPOSED PROJECT AREA.

Parking Summary Chart

Description	Size Required	Size Provided	Spaces Required	Spaces Provided
STANDARD SPACES	9'x18'	9'x18'	211	82
UNDERGROUND STRUCTURED SPACES	9'x18'	9'x18'	–	91
STANDARD ACCESSIBLE SPACES *	13'x18'	14'x18'	3	6
VAN ACCESSIBLE SPACES *	16'x18'	16'x18'	1	2
TOTAL SPACES			215	181
LOADING BAYS **	12'x30'x14'	12'x30'x14'	3	2***

* ADA/STATE/LOCAL REQUIREMENTS. REQUIRED ACCESSIBLE SPACES BASED ON TOTAL PROVIDED MALL PARKING. SEE OVERALL SITE PLAN.
** LOADING BAYS (RETAIL BUSINESS USE) 1 BAYS PER 5,001 – 20,000 SF
LOADING BAYS (RESTAURANT USE) 2 BAYS PER 6,001 – 16,000 SF

*** WAIVER REQUESTED (SEE SECTION B.1 REQUESTED WAIVERS OF BLOCK 5 SPSR-A)

Parking Requirements

RETAIL USES	1 SPACE / 1000 SF
RESTAURANT USES	1 SPACE / 500 SF
RESIDENTIAL USES	1 SPACE / UNIT
HOTEL USES	0.5 SPACE / UNIT
PARKING REQUIRED	(11,000 SF x 1 SPACES/ 1000 SF) = 11
	(11,000 SF x 1 SPACES/ 500 SF) = 22
	(104 UNITS x 1 SPACE/ UNIT) = 104
	(155 UNITS x 0.5 SPACE/ UNIT) = 78
	TOTAL = 215

Bicycle Parking Requirements

NON-RESIDENTIAL	
PARKING REQUIRED	(99 SPACES x 1 SPACES/ 10 REQ. SPACES) = 12
RESIDENTIAL	
PARKING REQUIRED	(104 SPACES x 1 SPACES/ 3 UNITS) = 35
	TOTAL = 47

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SCALE IN FEET

No.	Revision	Date	Appvd.

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Scale 1"=20' | Date November 21, 2014

Project Title
Assembly Row
Block 5

Assembly Row
Somerville, Massachusetts

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Drawing Title
Layout and
Materials Plan

Drawing Number
C-6

Sheet 6 of 12

Project Number
08518.05

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BLOCK 3

BLOCK 5
SW - 11/17/14

FUTURE BLOCK 7

PROPOSED ROW, TYP.

CONC. PAD w/TRANS.

RAIN GARDEN 5B

RAIN GARDEN DCB RIM = 11.5
INV = 4.95

DRAIN STUB INV = 4.75

CONTECH VORTECHS 7000 WATER QUALITY UNIT RIM=4.89

SAWCUT

DCB-1 R=12.8 SHALLOW
DCB-2 R=12.8 SHALLOW
DCB-3 R=12.8 SHALLOW
DMH-1 R=12.8
DMH-2 R=12.8 SHALLOW
DMH-3 R=13.5
PS-1 R=13.8
WQU-1 R=13
DCB-4 R=12.4
CB-05 R=12.28 I = 8.28 (OUT)
CB-03 R=11.91 I = 8.91 (OUT)
CB-04 R=12.98 I = 8.98 (OUT)
DMH-01 R=13.5 I = EXISTING (OUT)

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Project Title

Assembly Row
Block 5

Assembly Row
Somerville, Massachusetts

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Drawing Title

Grading, Drainage and Erosion Control Plan

Drawing Number

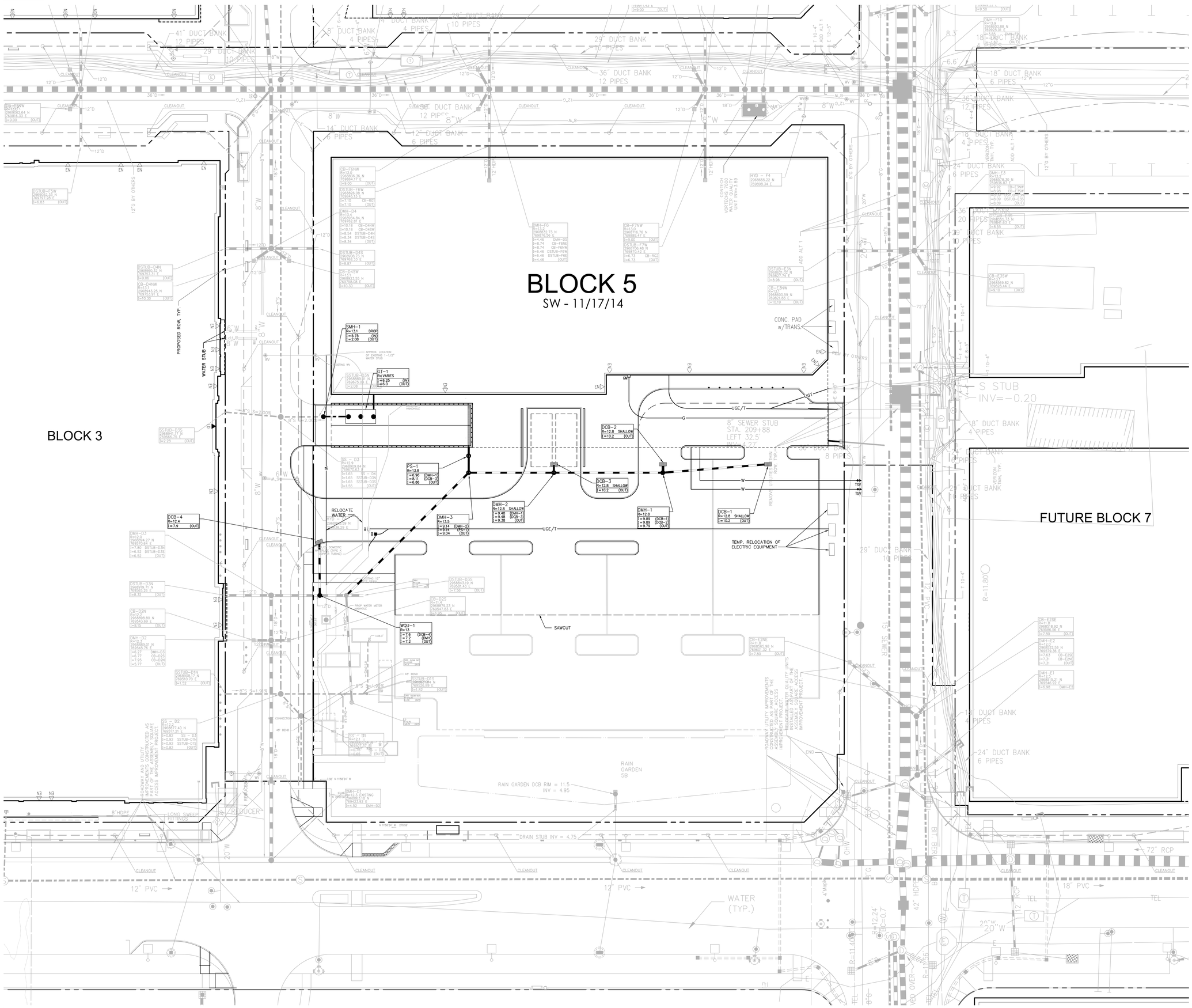
C-7

Sheet of 7 12

Project Number
08518.05

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SCALE IN FEET

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20 0 20 40
SCALE IN FEET

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Project Title
Assembly Row Block 5

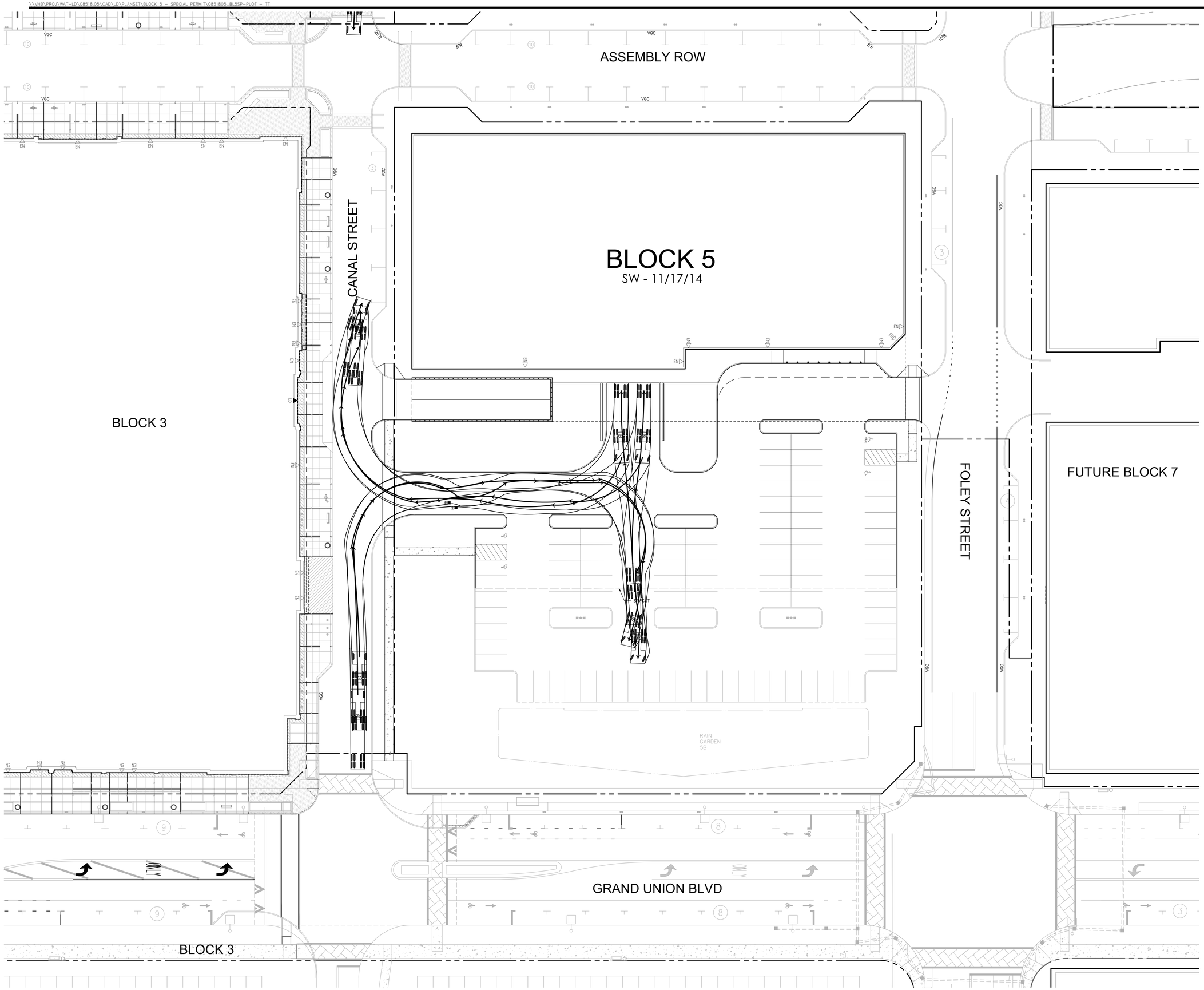
Assembly Row
Somerville, Massachusetts
Issued for

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Drawing Title

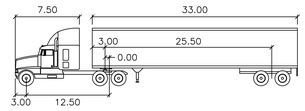
Utility Plan

Drawing Number
C-8
Sheet 8 of 12
Project Number
08518.05

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WB-40 feet

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.00	Steering Angle	: 20.3
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.00		

N

20 0 20 40
SCALE IN FEET

No.	Revision	Date	Appvd.

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Scale 1"=20' | Date November 21, 2014

Project Title
Assembly Row
Block 5

Assembly Row
Somerville, Massachusetts
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Final Submission
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Drawing Title
Turning Template
Plan

Drawing Number
C-9

Sheet 9 of 12

Project Number
08518.05

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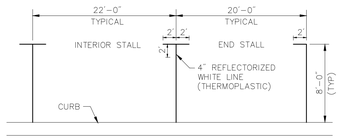
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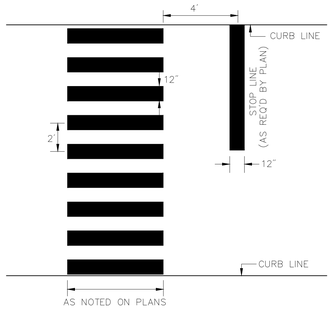
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PARKING STALL MARKINGS

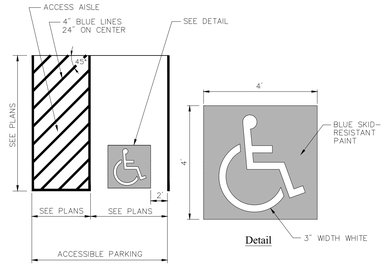
SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: PM-01



NOTES:
1. ALL 12" THERMOPLASTIC LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6" LINES) WILL BE ACCEPTED.
2. LAYOUT OF CROSSWALKS SHALL BE APPROVED BY THE ENGINEER PRIOR TO APPLICATION OF THERMOPLASTIC.
3. ALL CROSSWALKS INSTALLED SHALL CONFORM TO THE RELEVANT PROVISIONS OF THE MASSACHUSETTS HIGHWAY DEPARTMENT (MASS DOT) "STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGES" DATED 1988, SECTION 860 FOR REFLECTORIZED LINE (THERMO-PLASTIC) & MATERIAL M7.01.20, LATEST REVISIONS.
4. CROSSWALK LINES SHALL BE APPLIED IN THE DIRECTION OF TRAVEL TO MINIMIZE WEAR BY VEHICLES.

TEMPORARY CROSSWALK WITH DIRECTIONAL LINES

SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: PM-07



Detail

Notes:

1. ALL DIMENSIONS TO EDGES OF 4" PAVEMENT STRIPING.
2. ALL STRIPING SHALL BE 4" WIDE SOLID WHITE PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.
3. 8' STALL WIDTH REFERS TO 8' CLEAR BETWEEN INSIDE EDGES OF PAVEMENT MARKINGS.
4. ALL SLOPES THROUGHOUT THE ACCESSIBLE PARKING AND AISLE AREAS SHALL NOT EXCEED 1.5%.

ACCESSIBLE PARKING SPACE

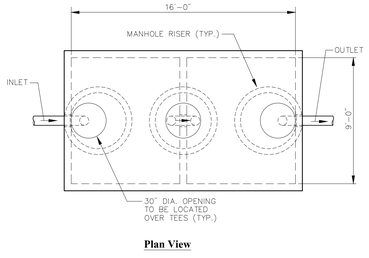
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Notes:

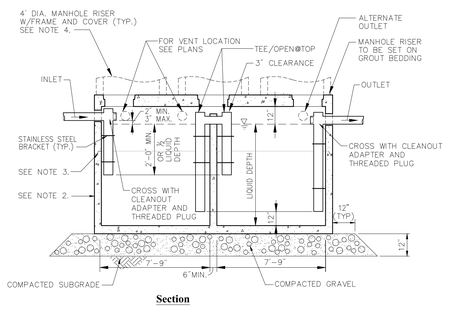
1. STRUCTURE SHALL BE DESIGNED FOR HS-20 LOADING.
2. EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. STANDARD 30-INCH SEWER MANHOLE FRAME AND COVER SHALL BE LOCATED OVER CROSSES AND SET IN FULL MORTAR BED. ADJUST TO GRADE WITH SEWER BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)
5. PIPING SHALL BE SCH 40 PVC WITH SOLVENT WELDED JOINTS. INTERNAL PIPE DIAMETER SHALL BE SAME SIZE AS OUTLET PIPE.

NOTE:
FINAL DESIGN OF GREASE TRAP TO BE BY PLUMBING ENGINEER. THE INSTALLATION OF GREASE TRAP, THE PIPING TO AND 10 FEET BEYOND IS BY PLUMBER.

GREASE TRAP	
SIZE(GAL.)	LIQUID DEPTH
4,000	4'-0"
5,000	5'-0"
6,000	6'-0"
7,000	7'-0"
8,000	8'-0"
9,000	9'-0"
10,000	10'-0"



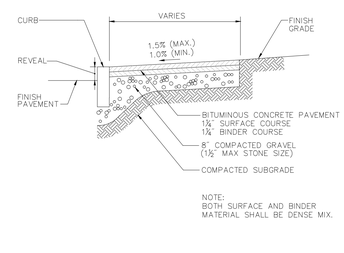
Plan View



Section

Precast Concrete Grease Trap (GT)

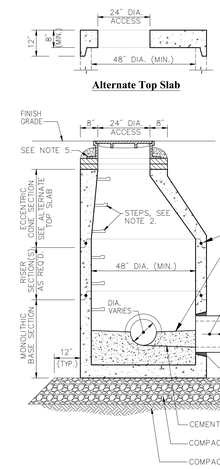
7/13
N.T.S. Source: VHB REV LD_211



NOTE:
BOTH SURFACE AND BINDER MATERIAL SHALL BE DENSE MIX.

Bituminous Concrete Sidewalk

8/11
N.T.S. Source: VHB LD_422



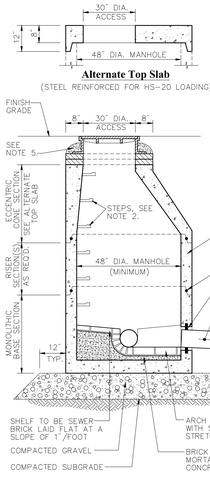
Alternate Top Slab

Notes:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING. DIAMETER OF STRUCTURES SHALL BE COORDINATED WITH PIPE CONFIGURATIONS.
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

Drain Manhole (DMH)

4/11
N.T.S. Source: VHB LD_115



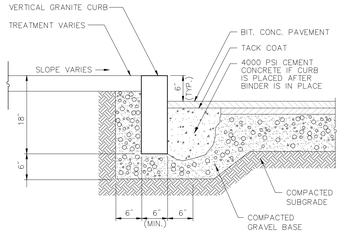
Alternate Top Slab
(STEEL REINFORCED FOR HS-20 LOADING)

Notes:

1. STRUCTURES SHALL BE PRECAST CONCRETE, DESIGNED FOR HS-20 LOADING.
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. STANDARD SEWER MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH SEWER BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

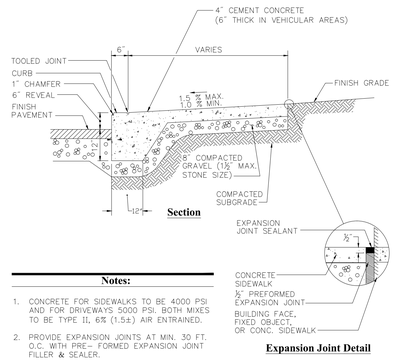
Sanitary Sewer Manhole (SMH)

6/08
N.T.S. Source: VHB LD_200



Vertical Granite Curb (VGC)

6/12
N.T.S. Source: VHB LD_402



Section

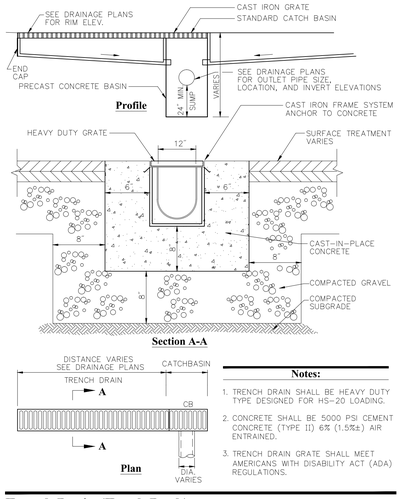
Expansion Joint Detail

Notes:

1. CONCRETE FOR SIDEWALKS TO BE 4000 PSI AND FOR DRIVEWAYS 5000 PSI. BOTH MIXES TO BE TYPE II, 6% (1.5±) AIR ENTRAINED.
2. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE-FORMED EXPANSION JOINT FILLER & SEALER.
3. PROVIDE TOOLED CONTROL JOINTS AT 6' O.C.
4. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.

Monolithic Concrete Curb (MCC) & Sidewalk

12/11
N.T.S. Source: VHB LD_421

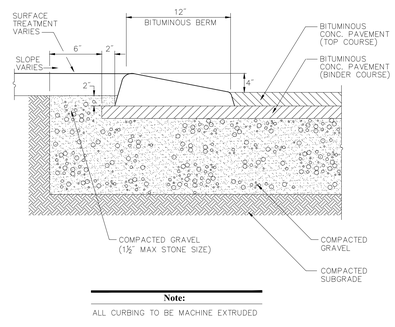


Notes:

1. TRENCH DRAIN SHALL BE HEAVY DUTY TYPE DESIGNED FOR HS-20 LOADING.
2. CONCRETE SHALL BE 5000 PSI CEMENT CONCRETE (TYPE II) 6% (1.5%±) AIR ENTRAINED.
3. TRENCH DRAIN GRATE SHALL MEET AMERICANS WITH DISABILITY ACT (ADA) REGULATIONS.

Trench Drain (Truck Dock)

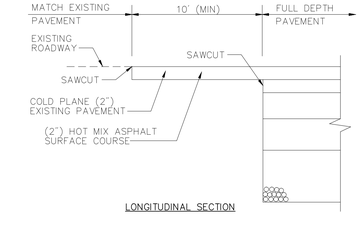
3/13
N.T.S. Source: VHB LD_190-B



Note:
ALL CURBING TO BE MACHINE EXTRUDED

Bituminous Berm (BB/CCB)

6/08
N.T.S. Source: VHB LD_407



LONGITUDINAL SECTION

FULL DEPTH PAVEMENT TRANSITION

SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: PVMT-03

No.	Revision	Date	Appvd.

Designed by | Drawn by NL | Checked by RPM
CAD checked by | Approved by HGH
Scale N.T.S | Date November 21, 2014

Project Title
Assembly Row
Block 5

Assembly Row
Somerville, Massachusetts

Issued for
Final Level PUD Approval-
Final Submission
Not Approved for Construction

Drawing Title
Detail Sheet

Drawing Number
C-10

Sheet 10 of 12

Project Number
08518.05

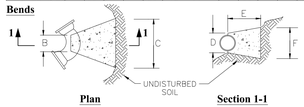
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Saved Friday, November 21, 2014 9:28:19 AM NLAN Plotted Friday, November 21, 2014 10:16:38 AM Lian, Ni

Table Of Dimensions

BENDS	B	C	D	E	F	BENDS	B	C	D	E	F
6" 11 1/4°	8"	15"	12"	24"	12"	6" 45°	8"	30"	12"	24"	14"
6" 22 1/2°	-	19"	-	-	13"	6" 90°	-	30"	-	-	27"
8" 11 1/4°	-	20"	-	-	12"	8" 45°	-	30"	-	-	24"
8" 22 1/2°	-	22"	-	-	17"	8" 90°	-	38"	-	-	36"
12" 11 1/4°	-	30"	-	-	15"	12" 45°	-	40"	-	-	40"
12" 22 1/2°	-	35"	-	-	25"	12" 90°	-	60"	-	-	52"

Bends

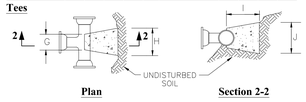


Plan **Section 1-1**

Table Of Dimensions

TEES	G	H	I	J	TEES	G	H	I	J
6"x 6"x 6"	12"	24"	24"	18"	12"x 12"x 6"	12"	24"	24"	18"
8"x 8"x 6"	-	-	-	-	12"x 12"x 8"	-	-	-	24"
8"x 8"x 8"	-	-	-	24"	12"x 12"x 12"	-	36"	-	36"

Tees



Plan **Section 2-2**

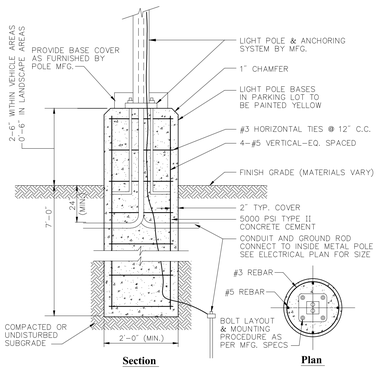
Notes:

1. PROVIDE BLOCKS FOR TAPPING SLEEVES, DEAD ENDS, GATE VALVES, AND VERTICAL BENDS (SAME SIZE AS REQUIRED FOR TEES). PROVIDE ANCHOR RODS AT VERTICAL BENDS AND GATE VALVES.
2. CONCRETE SHALL NOT BE PLACED AGAINST PIPE BEYOND FITTING.
3. CONCRETE SHALL BE 3000 PSI-TYPE I.

Concrete Thrust Block

10/10

N.T.S. Source: VHB LD_260



Section **Plan**

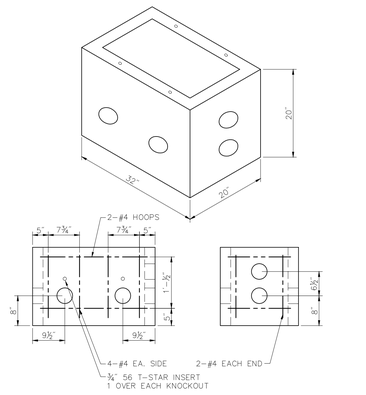
Notes:

LIGHT POLE FOUNDATION DESIGN IS SUBJECT TO CHANGE BASED ON FINAL POLE AND FIXTURE SELECTION AND GEOTECHNICAL SITE INVESTIGATION.

Light Pole Foundation Detail (Up to 40' Pole)

2/11

N.T.S. Source: VHB LD_310



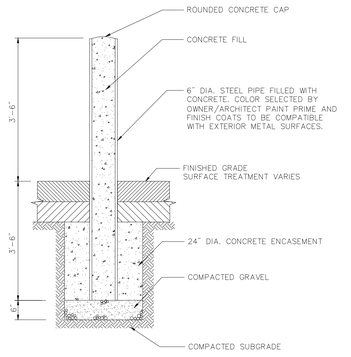
Note:

1. CONCRETE 4,000 PSI @ 28 DAYS.
2. REINFORCING ASTM A-615, #4 REBAR AS SHOWN.
3. DESIGN FOR HS20-44 LOADING.

Precast Pullbox

6/08

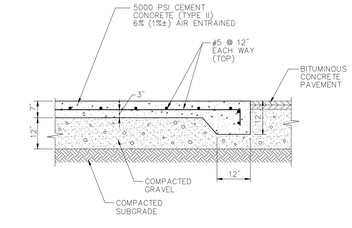
N.T.S. Source: VHB LD_315



Bollard

6/08

N.T.S. Source: VHB LD_700



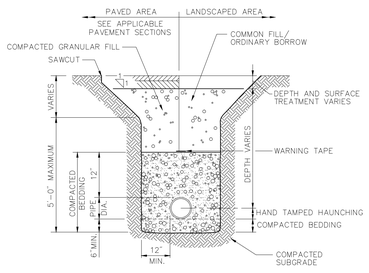
Notes:

1. SIZE OF COMPACTOR PAD TO BE AS INDICATED ON PLANS.
2. CONSTRUCTION JOINTS SHALL BE SPACED NO MORE THAN 30 FEET ON CENTER AND SHALL BE EQUALLY SPACED OVER THE LENGTH AND WIDTH OF THE PAD.

Compactor Pad

9/14

N.T.S. Source: VHB LD_712



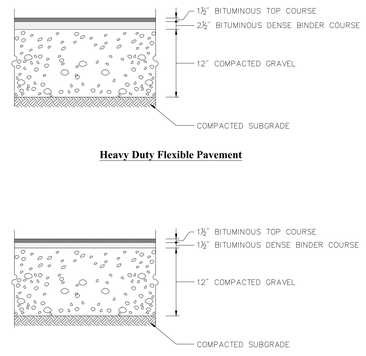
Notes:

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.

Utility Trench

8/11

N.T.S. Source: VHB LD_300



Heavy Duty Flexible Pavement

Standard Duty Flexible Pavement

Note:

PAVEMENT SECTIONS ARE SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

Bituminous Concrete Pavement Sections

12/11

N.T.S. Source: VHB LD_430

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No.	Revision	Date	Appvd.

Designed by | Drawn by NL | Checked by RPM
CAD checked by | Approved by HGH
Scale N.T.S | Date November 21, 2014

Project Title

Assembly Row Block 5

Assembly Row
Somerville, Massachusetts

Issued for

Final Level PUD Approval-
Final Submission
Not Approved for Construction

Drawing Title

Detail Sheet

Drawing Number

C-11

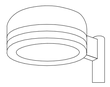
Sheet 11 of 12

Project Number
08518.05

Saved Friday, November 21, 2014 9:28:19 AM NUAN Plotted Friday, November 21, 2014 10:16:17 AM Lian, Ni

LSI INDUSTRIES™
LIGHTING PROPOSAL FOR
UNIT DEVELOPMENT

SCALE:	LO-109237
DATE:	
BY: D.W.M	SHEET 1 OF 1

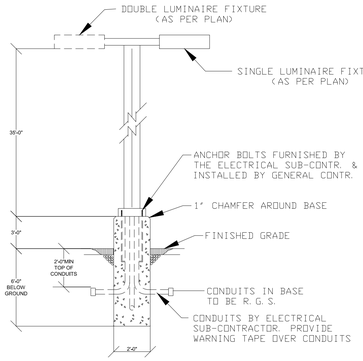


HILTON
FLAT LENS
IESNA FULL CUTOFF

SITE LIGHTING FIXTURE SCHEDULE:
ALL EQUIPMENT IS L.S.I.

TYPE 'A'
POLE: RTPBD-S11G-35-D180-BLK
FIXTURES: 2@HFL-S-1000MHR-F-480-BLK
2-1000 WATT METAL HALIDE - TYPE 5 DISTRIBUTION.

TYPE 'B'
35' WOOD POLE SET 5'-6" INTO GROUND
GE 400 WATT PULSE START
TYPE 3 DISTRIBUTION, FULL CUT-OFF.

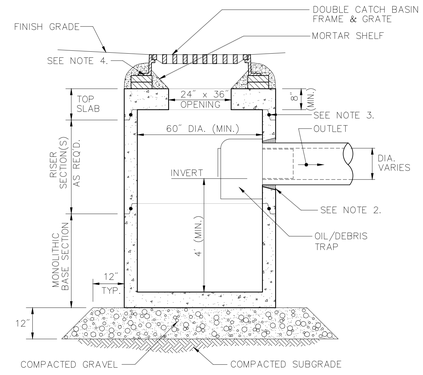


LIGHTING POLE BASE DETAIL
NOT TO SCALE

NOTE:
SIZE, DEPTH & REINFORCING STEEL IN BASE TO BE DETERMINED BY GEO. TECH & STRUCTURAL ENGINEER

PARKING LOT LIGHT POLE DETAIL TYPE A-2 (SOURCE: ENGINEERING ADVANTAGE, INC.)

SCALE: NOT TO SCALE
DATE: –
DWG: –

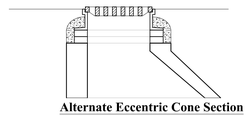


Notes:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
4. DOUBLE CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICKS TYPICALLY, 5 BRICK COURSES MAXIMUM)

DOUBLE CATCH BASIN

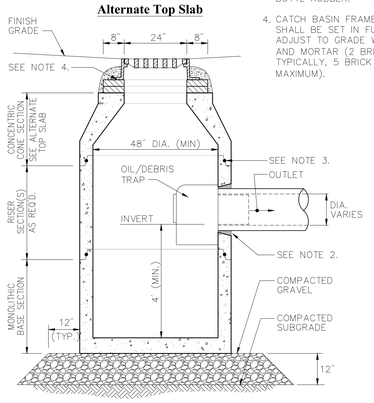
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DATE: –
DWG: –



Alternate Eccentric Cone Section



Alternate Top Slab



Notes:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

SINGLE CATCH BASIN

SCALE: NOT TO SCALE
DATE: –
DWG: –

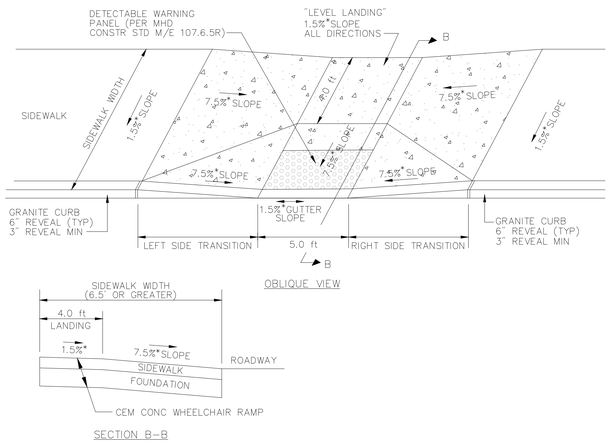
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LEGEND

LIMITS OF CEMENT CONCRETE WHEELCHAIR RAMP

LIMITS OF DETECTABLE WARNING PANEL

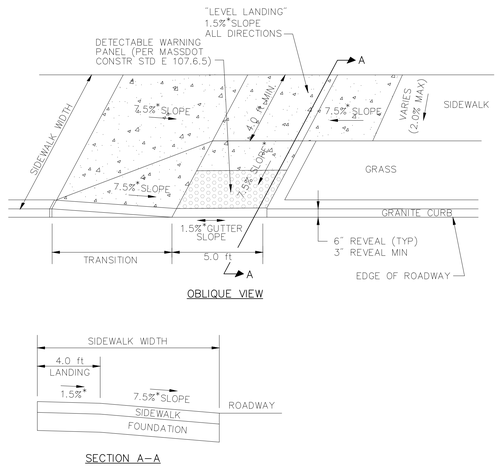
NOTE: CURB RAMP CROSS SLOPES SHALL NOT EXCEED 1.5%, INCLUDING AT ROADWAY GUTTER



*ALL SLOPES SHOWN ARE MAXIMUMS, TOLERANCE FOR CONSTRUCTION ±0.5%

WHEELCHAIR RAMP TYPE A

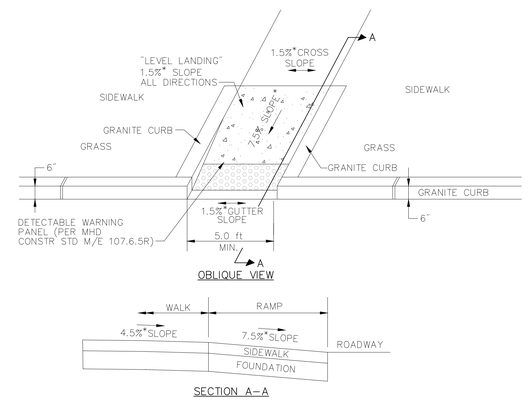
SCALE: NOT TO SCALE
DATE APRIL 2003
DWG: WCR-03



*ALL SLOPES SHOWN ARE MAXIMUMS, TOLERANCE FOR CONSTRUCTION ±0.5%

WHEELCHAIR RAMP TYPE G (TYPE A W/ GRASS WING)

SCALE: NOT TO SCALE
DATE: MARCH 2007
DWG: WCR-02r



*ALL SLOPES SHOWN ARE MAXIMUMS, TOLERANCE FOR CONSTRUCTION ±0.5%

WHEELCHAIR RAMP TYPE N

SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: WCR-05

No.	Revision	Date	Appvd

Designed by | Drawn by NL | Checked by RPM
CAD checked by | Approved by HGH
Scale N.T.S | Date November 21, 2014

Project Title
Assembly Row
Block 5

Assembly Row
Somerville, Massachusetts

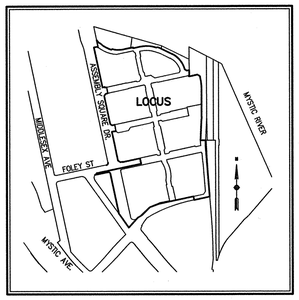
Issued for
Final Level PUD Approval-
Final Submission
Not Approved for Construction

Drawing Title
Detail Sheet

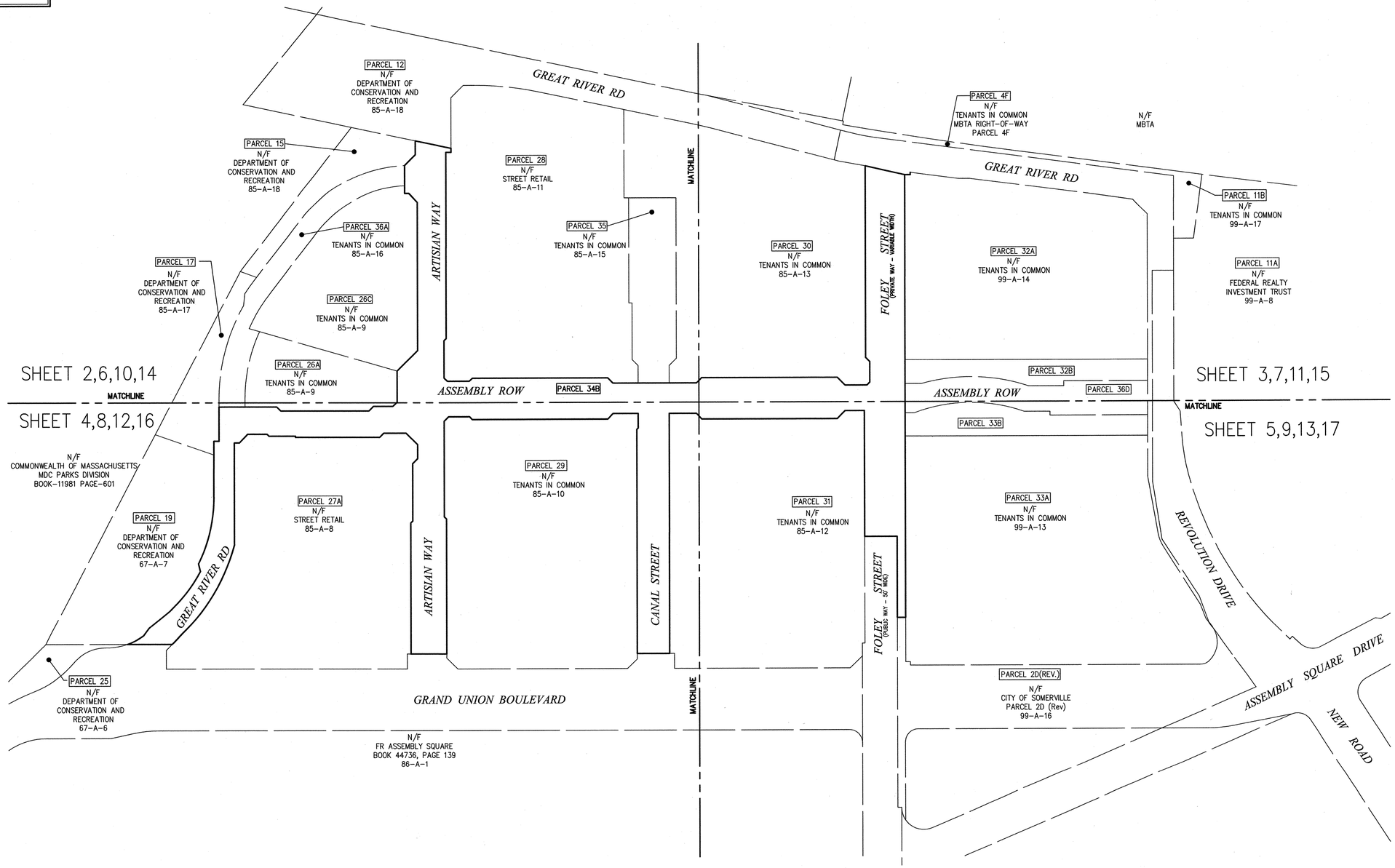
Drawing Number
C-12

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12 12

Project Number
08518.05



Locus Map
(NOT TO SCALE)



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Legend

- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- MANHOLE
- HH HAND HOLE
- WATER GATE
- FIRE HYDRANT
- GAS GATE
- STREET SIGN
- LIGHT POLE
- UTILITY POLE
- GUY POLE
- GUY WIRE
- MW MONITORING WELL
- FLOOD LIGHT
- W WELL
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- SBDH STONE BOUND DRILL HOLE
- ADA DETECTABLE WARNING PAD
- LSA LANDSCAPE AREA
- F.F.E.=45.27' FINISHED FLOOR ELEVATION
- EOP EDGE OF PAVEMENT
- CC CONCRETE CURB
- VGC VERTICAL GRANITE CURB
- SGE SLOPED GRANITE EDGE
- BB BITUMINOUS BERM
- BC BITUMINOUS CURB
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- SEWER LINE
- OHW OVERHEAD WIRE
- E UNDERGROUND ELECTRIC
- T TELEPHONE LINE
- G GAS LINE
- W WATER LINE
- STONE WALL
- TREE LINE
- 100'BZ 100-FT BUFFER ZONE
- 100'RA 100-FT RIVER FRONT AREA
- 200'RA 200-FT RIVER FRONT AREA
- LAT=100' LIMIT MEAN ANNUAL HIGH WATER
- BF1=100' LIMIT OF BANK
- WT1=100' VEGETATED WETLAND BOUNDARY

No.	Revision	Date	Appvd.

Designed by	Drawn by	Checked by
CAD checked by		Approved by
Scale 1"=40'		Date November 6, 2014

Project Title

Assembly Row
Assembly Square
PUD

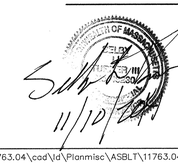
Somerville, Massachusetts

Issued for

As Built

Drawing Title

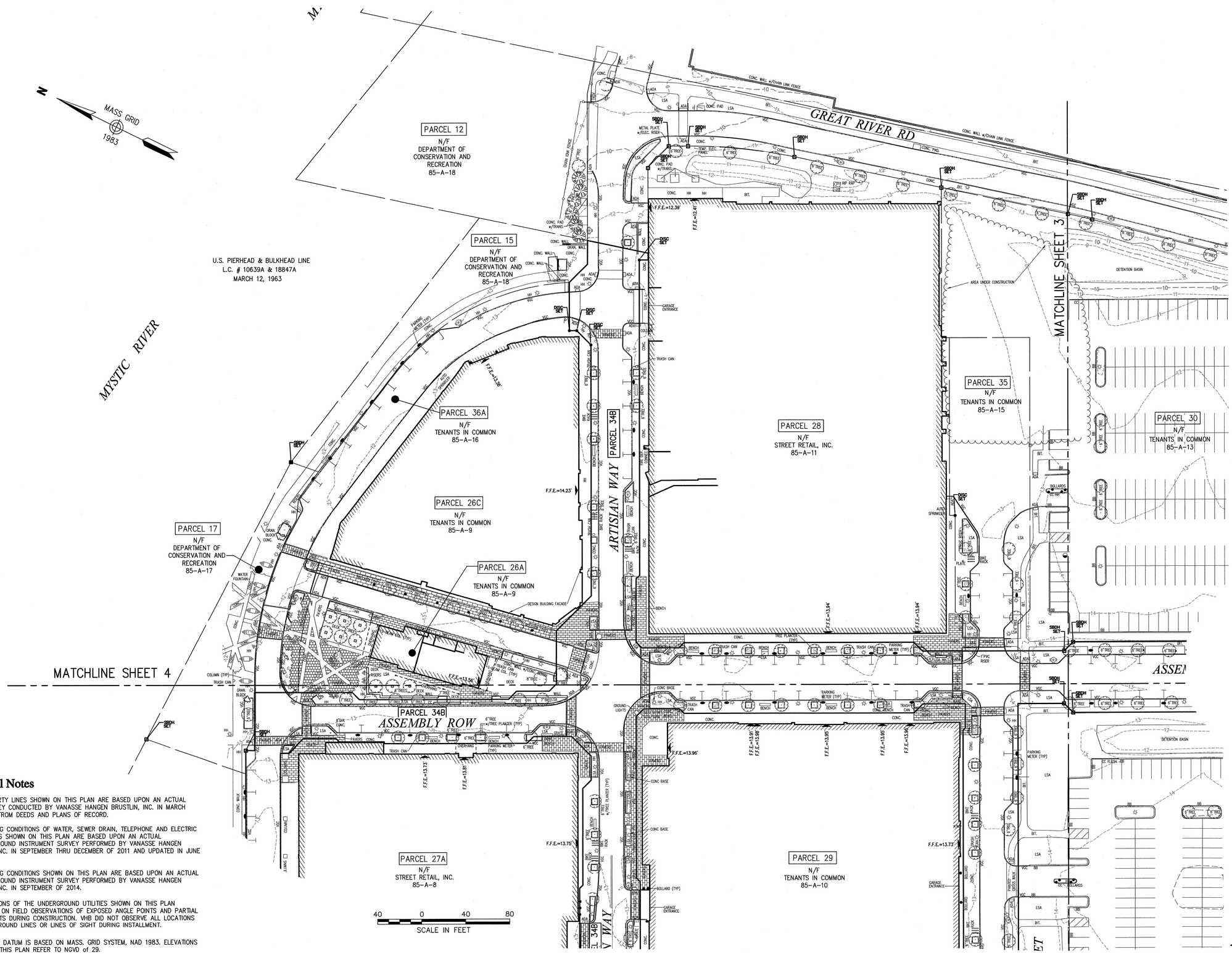
Key Sheet



Drawing Number
Sv-1

Sheet 1 of 17

Project Number
11763.04



General Notes

1. THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VANASSE HANGEN BRUSTLIN, INC. IN MARCH 2008 AND FROM DEEDS AND PLANS OF RECORD.
2. THE EXISTING CONDITIONS OF WATER, SEWER DRAIN, TELEPHONE AND ELECTRIC DUCT BANKS SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VANASSE HANGEN BRUSTLIN, INC. IN SEPTEMBER THRU DECEMBER OF 2011 AND UPDATED IN JUNE OF 2014.
3. THE EXISTING CONDITIONS SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VANASSE HANGEN BRUSTLIN, INC. IN SEPTEMBER OF 2014.
4. THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS OF EXPOSED ANGLE POINTS AND PARTIAL INSTALLMENTS DURING CONSTRUCTION. VHB DID NOT OBSERVE ALL LOCATIONS OF UNDERGROUND LINES OR LINES OF SIGHT DURING INSTALLMENT.
5. HORIZONTAL DATUM IS BASED ON MASS. GRID SYSTEM, NAD 1983. ELEVATIONS SHOWN ON THIS PLAN REFER TO NGVD of 29.

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Legend

- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- MANHOLE
- HH□ HAND HOLE
- WATER GATE
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- GAS GATE
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- TREE LINE
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- 100'RA 100-FT RIVER FRONT AREA
- 200'RA 200-FT RIVER FRONT AREA
- MHW-100 LIMIT MEAN ANNUAL HIGH WATER
- BH-100 LIMIT OF BANK
- WET-100 VEGETATED WETLAND BOUNDARY

No.	Revision	Date	Appvd.

Designed by	Drawn by / Checked by
CAD checked by	Approved by
Scale 1"=40'	Date November 6, 2014

Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

As Built

Drawing Title

Roadway As Built

SEAN TURNER III No. 46256 REGISTERED PROFESSIONAL ENGINEER

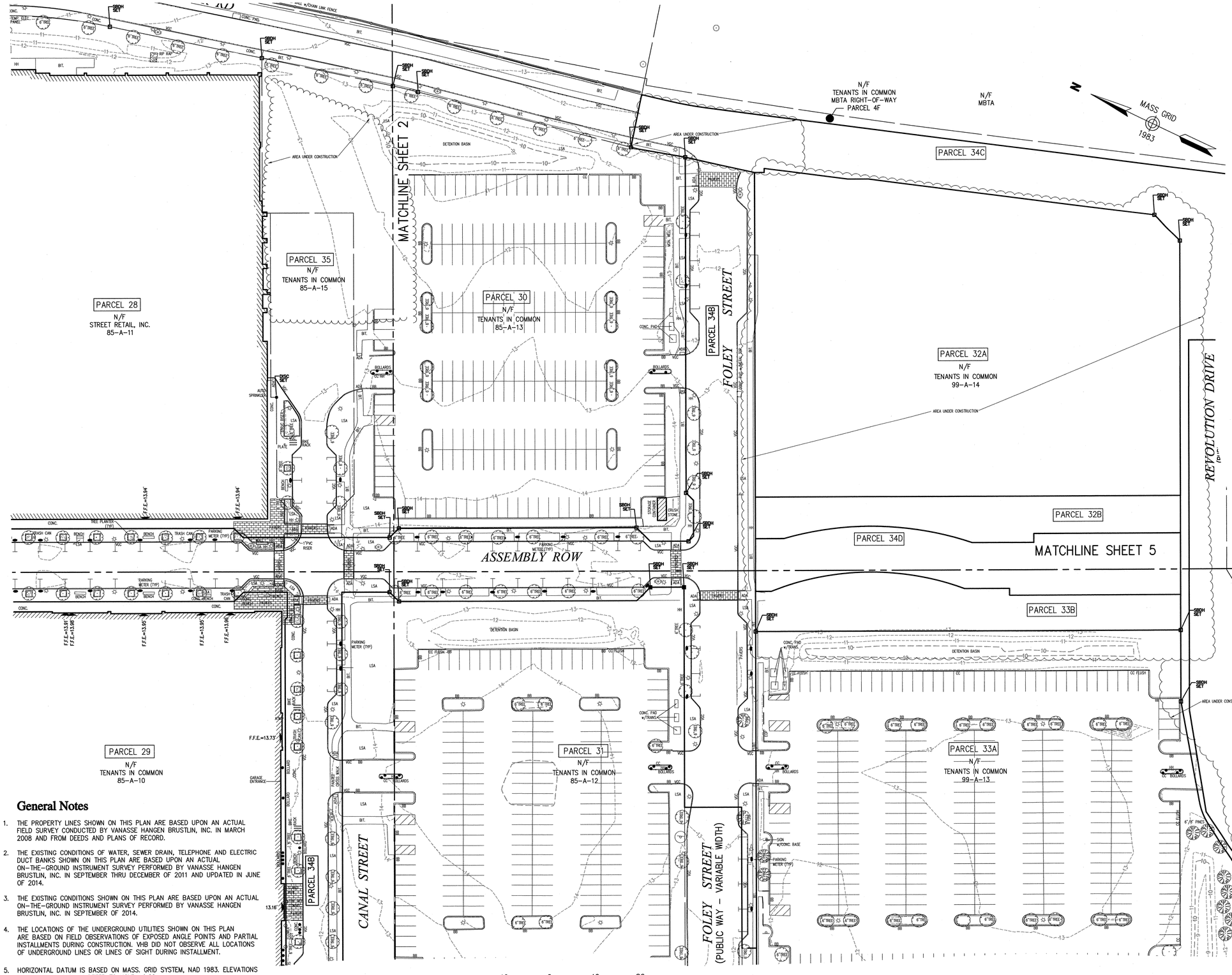
Drawing Number

Sv-2

Sheet of
2 17

Project Number
11763.04

\\vhb\proj\Wat-LD\11763.04\cad\ld\Planmac\ASBLT\11763.04_Roadway AsBlt_2014.dwg



General Notes

1. THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VANASSE HANGEN BRUSTLIN, INC. IN MARCH 2008 AND FROM DEEDS AND PLANS OF RECORD.
2. THE EXISTING CONDITIONS OF WATER, SEWER DRAIN, TELEPHONE AND ELECTRIC DUCT BANKS SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VANASSE HANGEN BRUSTLIN, INC. IN SEPTEMBER THRU DECEMBER OF 2011 AND UPDATED IN JUNE OF 2014.
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VHB
Vanasse Hangen Brustlin, Inc.
Transportation
Land Development
Environmental Services
101 Walnut Street, P.O. Box 9151
Watertown, Massachusetts 02471-9151
617 924 1770 • FAX 617 924 2286

Legend

- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- MANHOLE
- HH HAND HOLE
- WATER GATE
- FIRE HYDRANT
- GAS GATE
- STREET SIGN
- LIGHT POLE
- UTILITY POLE
- GUY POLE
- GUY WIRE
- MW MONITORING WELL
- FLOOD LIGHT
- W WELL
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- SBDH STONE BOUND DRILL HOLE
- ADA DETECTABLE WARNING PAD
- LSA LANDSCAPE AREA
- F.F.E.=45.27' FINISHED FLOOR ELEVATION
- EOP EDGE OF PAVEMENT
- CC CONCRETE CURB
- VGC VERTICAL GRANITE CURB
- SGC SLOPED GRANITE EDGE
- BB BITUMINOUS BERM
- BC BITUMINOUS CURB
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- SEWER LINE
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- MHW-100' MEAN HIGH WATER
- BH-100 LIMIT OF BANK
- WFT-100 VEGETATED WETLAND BOUNDARY

No.	Revision	Date	Appvd.

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Project Title
Assembly Row
Assembly Square
PUD
Somerville, Massachusetts

Issued for
As Built

Drawing Title
Existing Conditions
Plan of Land

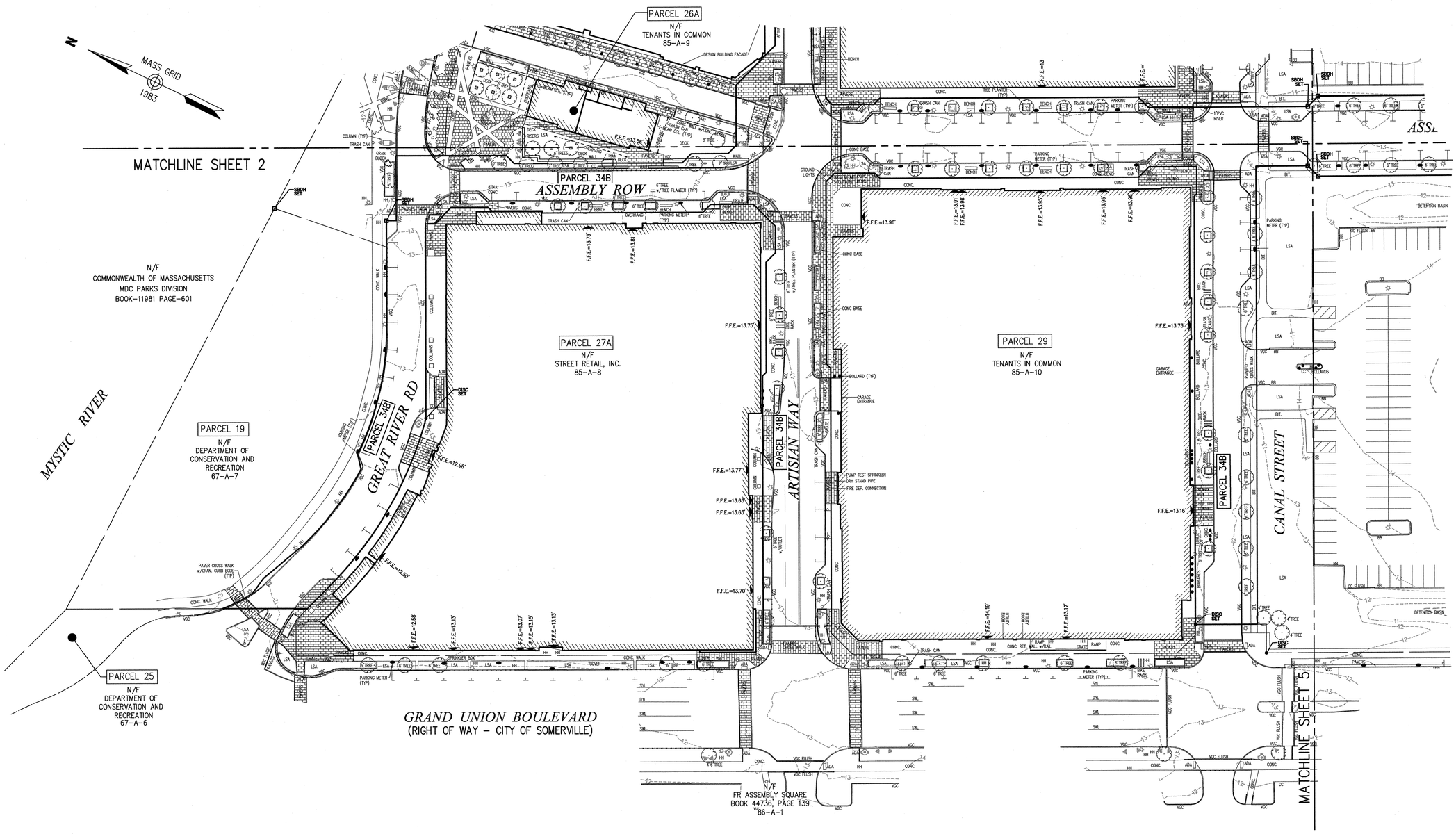
COMMONWEALTH OF MASSACHUSETTS
SELBY L. TURNER III
No. 49230
REGISTERED PROFESSIONAL LAND SURVEYOR

Drawing Number
Sv-3

Sheet 3 of 17

Project Number
11763.04

\\vhb\proj\Wat-LD\11763.04\cad\ld\Planmisc\ASBLT\11763.04_Roadway AsBlt_2014.dwg



General Notes

1. THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VANASSE HANGEN BRUSTLIN, INC. IN MARCH 2008 AND FROM DEEDS AND PLANS OF RECORD.
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Legend

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Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

As Built

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Existing Conditions
Plan of Land

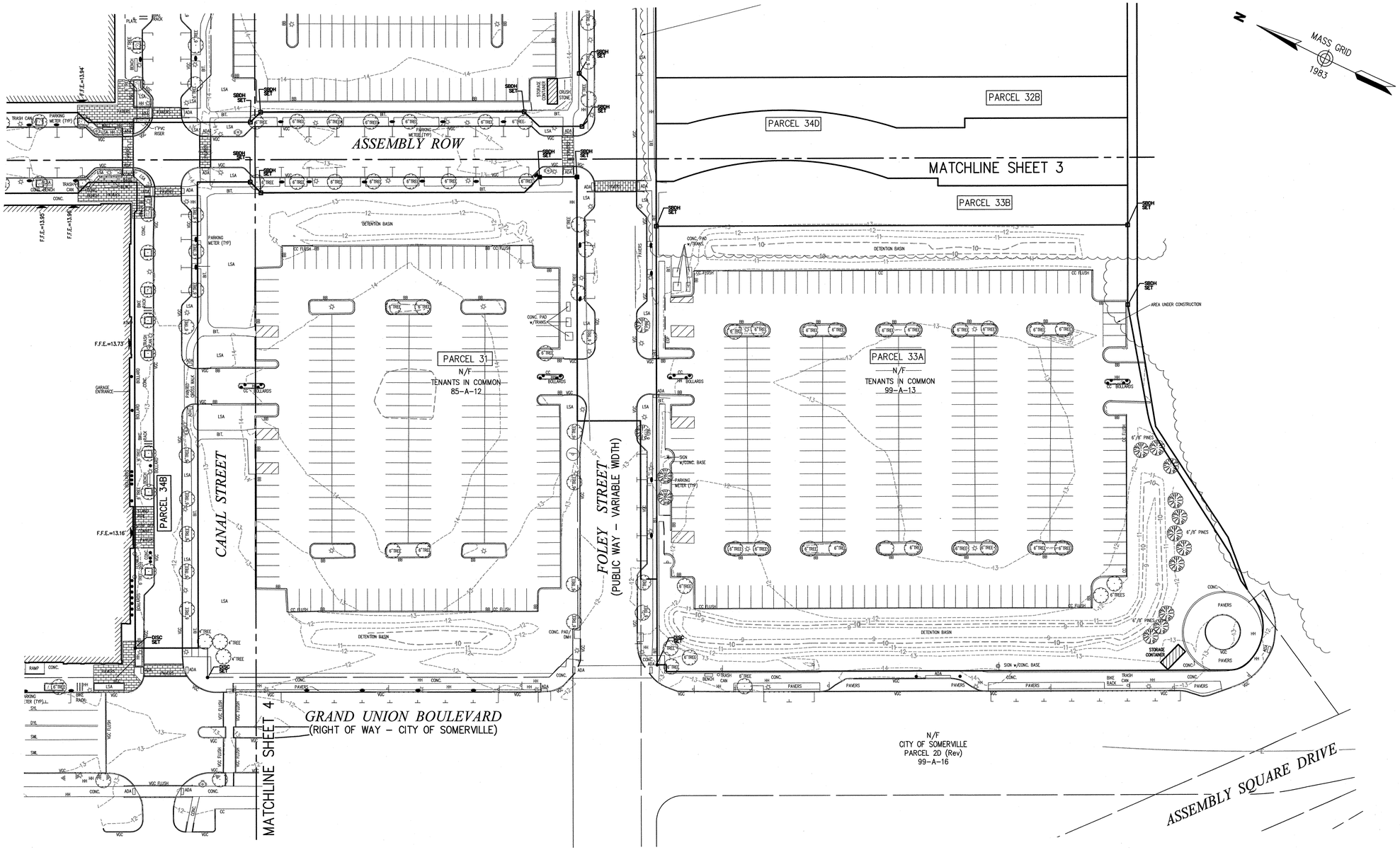
COMMONWEALTH OF MASSACHUSETTS
SELBY C. TURNER III
No. 49230
REGISTERED
LAND SURVEYOR
11/7/2014

Drawing Number
Sv-4

Sheet 4 of 17

Project Number
11763.04

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VHB

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Transportation
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Environmental Services

101 Walnut Street, P.O. Box 9151
Watertown, Massachusetts 02471-9151
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Legend

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CAD checked by | Approved by
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Project Title

Assembly Row
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PUD
Somerville, Massachusetts

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As Built

Drawing Title

Existing Condition
Plan of Land

COMMONWEALTH OF MASSACHUSETTS
SELBY L TURNER JR
NO. 49230
REGISTERED LAND SURVEYOR

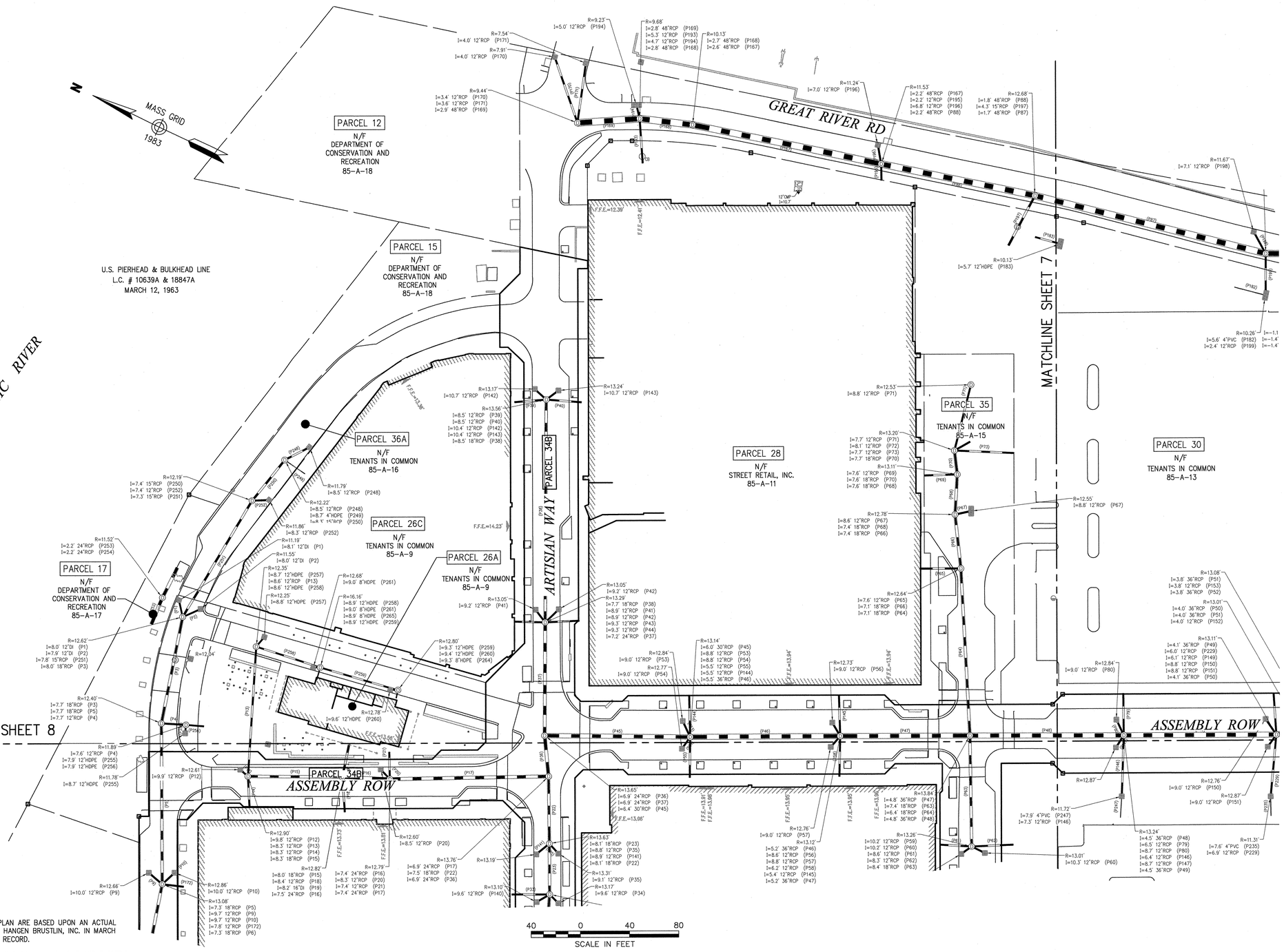
Drawing Number

Sv-5

Sheet 5 of 17

Project Number
11763.04

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Transportation
Land Development
Environmental Services

101 Walnut Street, P.O. Box 9151
Watertown, Massachusetts 02471-9151
617 924 1770 • FAX 617 924 2286

Legend

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No.	Revision	Date	Appvd.

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Scale 1"=40' | Date November 6, 2014

Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

As Built

Drawing Title

Drain Asbuilt

COMMONWEALTH OF MASSACHUSETTS
SELBY L. TURNER
No. 46230
REGISTERED PROFESSIONAL LAND SURVEYOR

Drawing Number

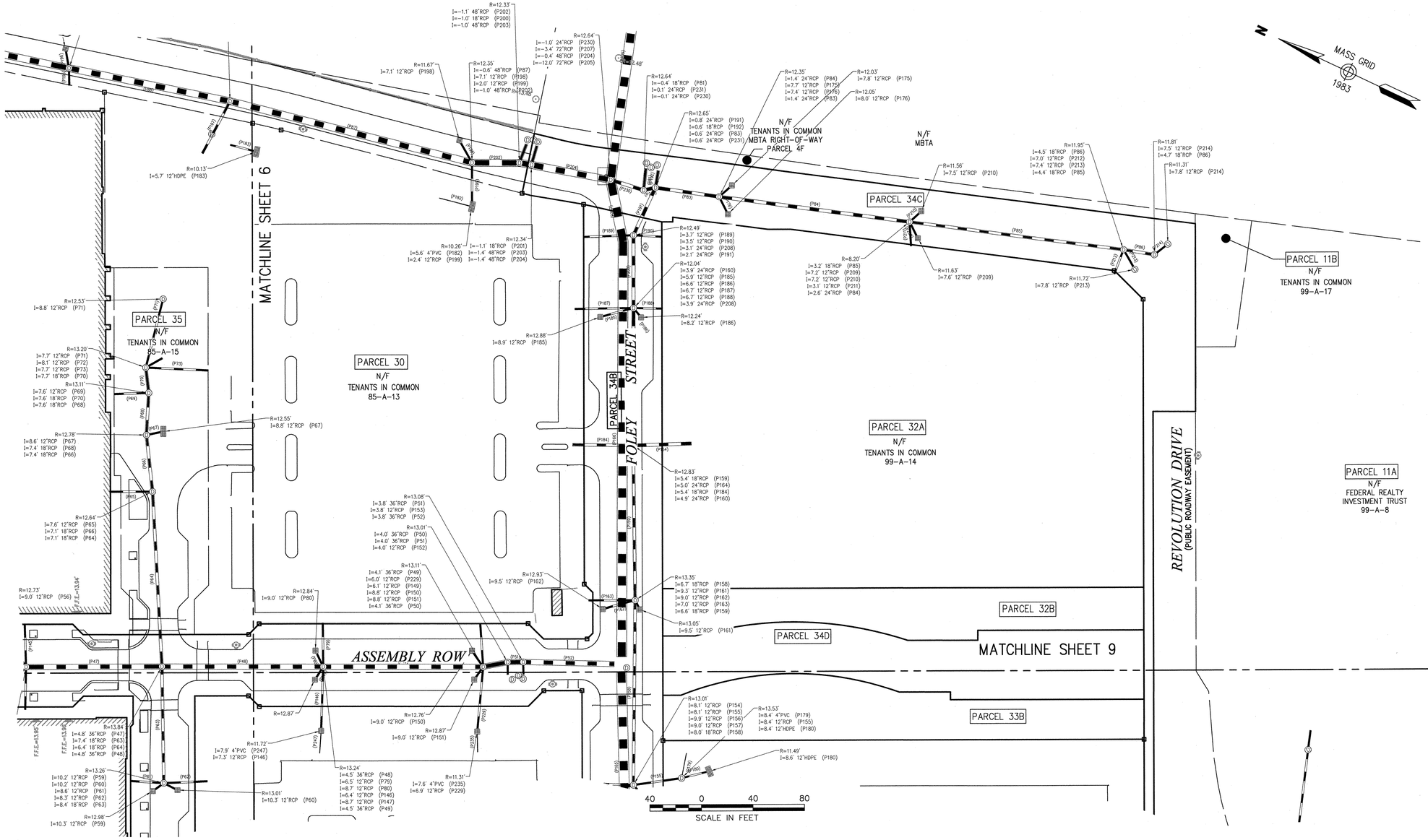
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Sheet 6 of 17

Project Number

11763.04

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VHB
Vanasse Hangen Brustlin, Inc.
Transportation
Land Development
Environmental Services
101 Walnut Street, P.O. Box 9151
Watertown, Massachusetts 02471-9151
617 924 1770 • FAX 617 924 2286

Legend

- DRAIN MANHOLE
- CATCH BASIN
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No.	Revision	Date	Appvd.

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Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

As Built

Drawing Title

Drain Asbuilt

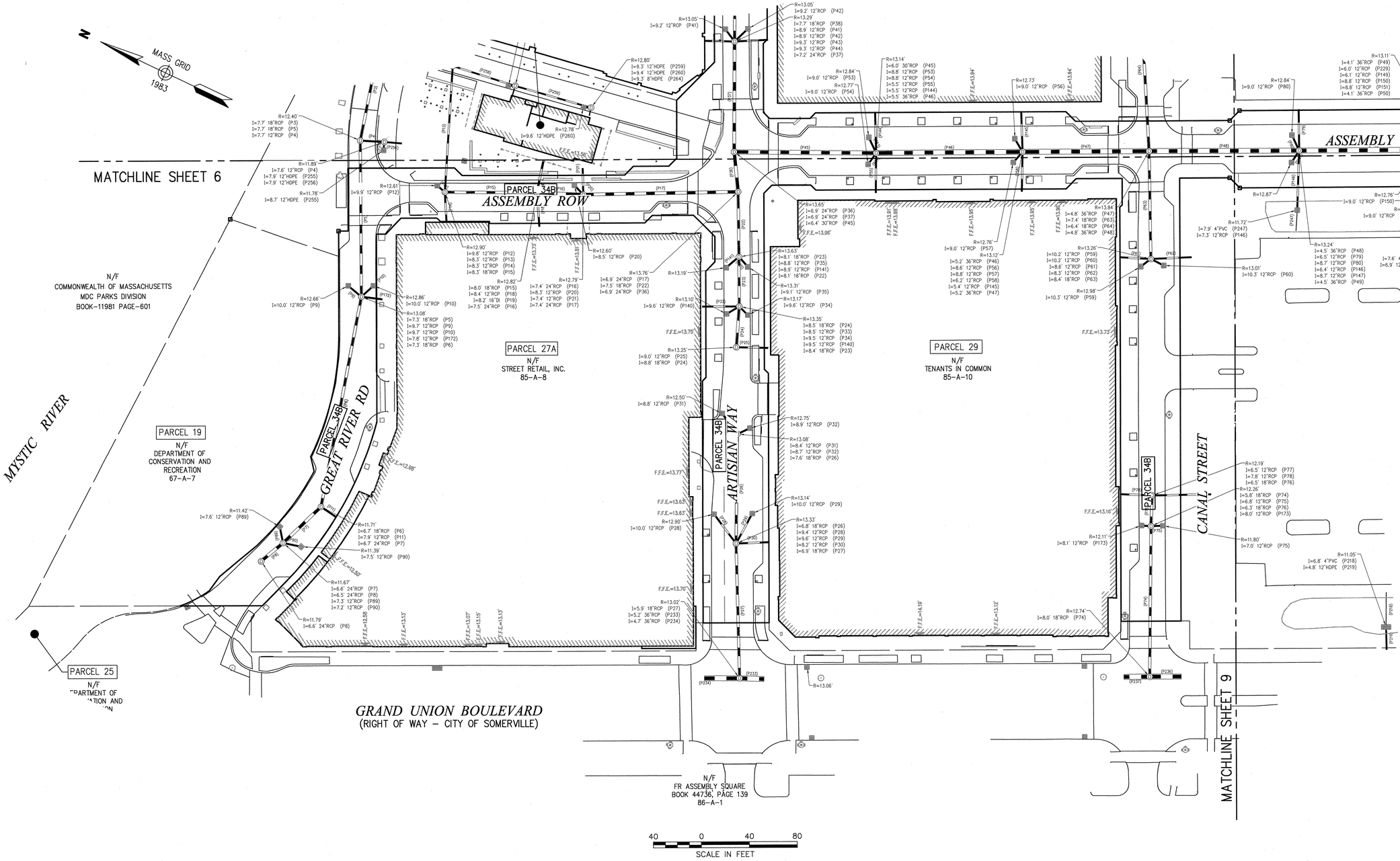
COMMONWEALTH OF MASSACHUSETTS
SHELBY L. TURGEON
No. 46290
REGISTERED LAND SURVEYOR

Drawing Number
Sv-7

Sheet 7 of 17

Project Number
11763.04

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Scale 1"=40'		Date November 6, 2014	

Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

As Built

Drawing Title

Drain Asbuilt

COMMONWEALTH OF MASSACHUSETTS
STEVEN J. TURNER III
No. 40235
REGISTERED PROFESSIONAL ENGINEER

Drawing Number

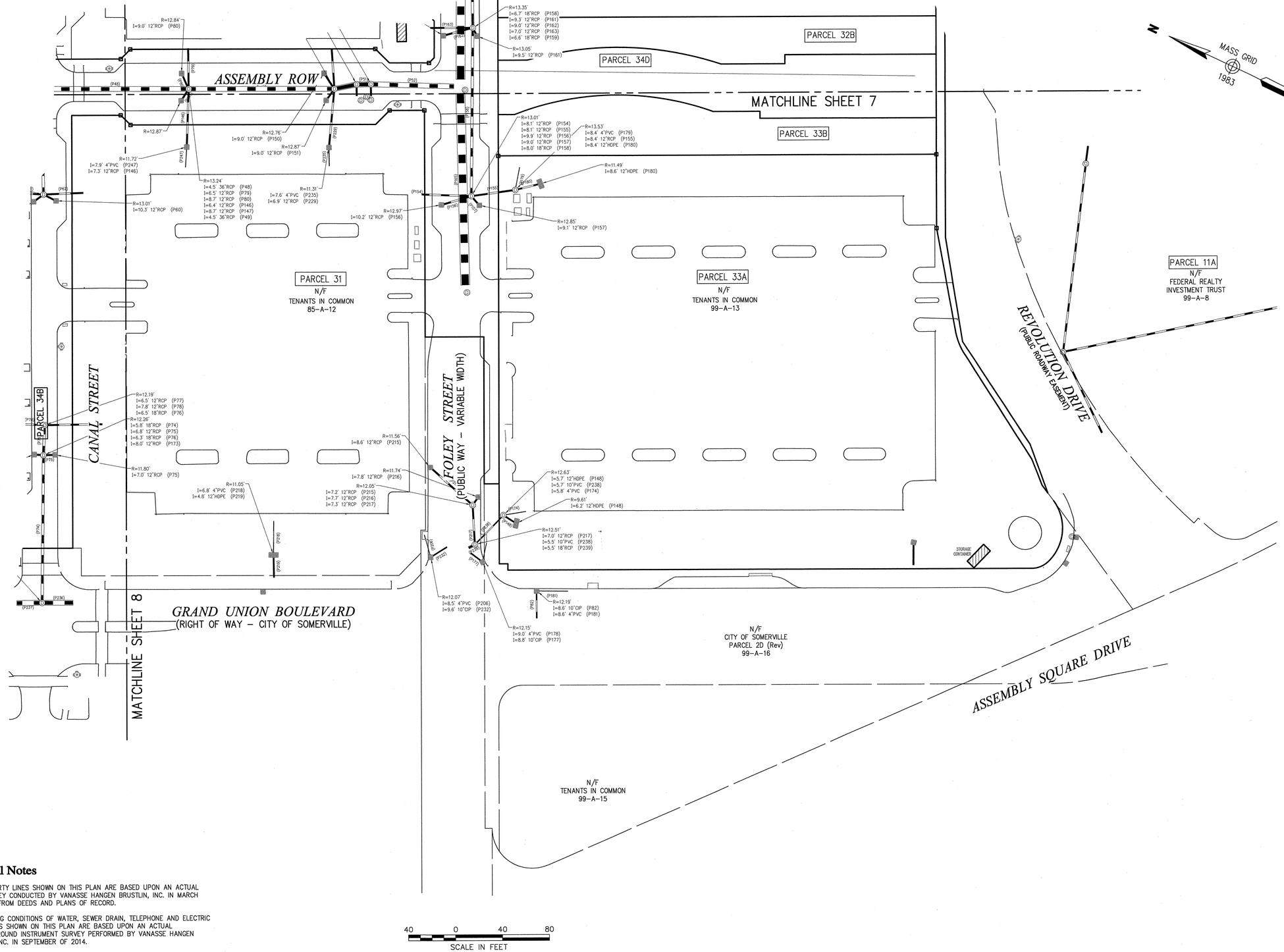
Sv-8

Sheet 8 of 17

Project Number

11763.04

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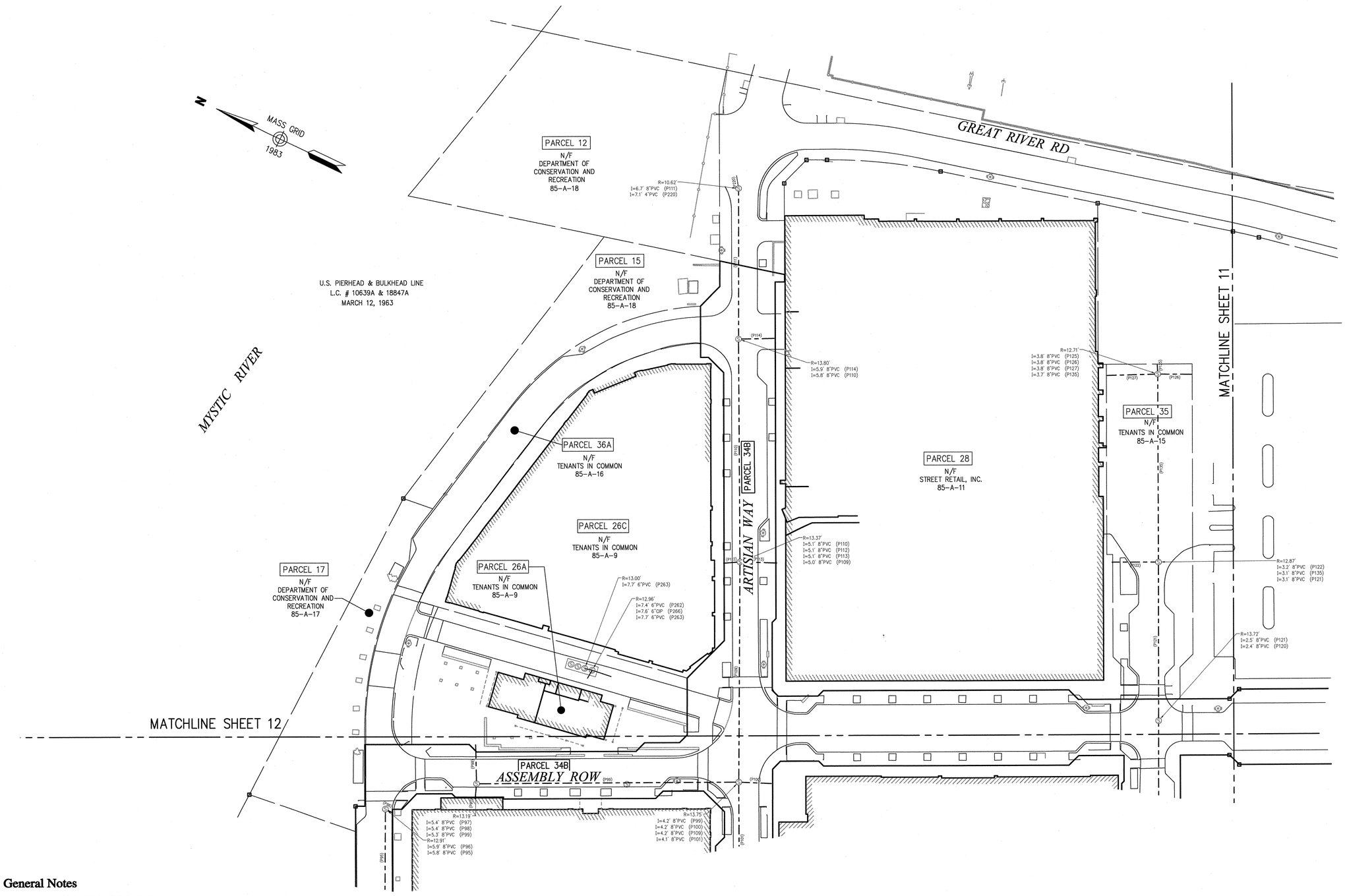
COMMONWEALTH OF MASSACHUSETTS
SELBY L TURNER JR
No. 49220
REGISTERED PROFESSIONAL LAND SURVEYOR
11/19/2014

Drawing Number
Sv-9

Sheet 9 of 17

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General Notes

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VHB

Vanasse Hangen Brustlin, Inc.

Transportation
Land Development
Environmental Services

101 Walnut Street, P.O. Box 9151
Watertown, Massachusetts 02471-9151
617 924 1770 • FAX 617 924 2286

Legend

- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- MANHOLE
- HH□ HAND HOLE
- WATER GATE
- FIRE HYDRANT
- GAS GATE
- STREET SIGN
- LIGHT POLE
- UTILITY POLE
- GUY POLE
- GUY WIRE
- MONITORING WELL
- FLOOD LIGHT
- WELL
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- SBDH STONE BOUND DRILL HOLE
- ADA DETECTABLE WARNING PAD
- LSA LANDSCAPE AREA
- F.F.E.=45.27' FINISHED FLOOR ELEVATION
- EDGE OF PAVEMENT
- CONCRETE CURB
- VERTICAL GRANITE CURB
- SLOPED GRANITE EDGE
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- BITUMINOUS CURB
- GUARD RAIL
- CHAIN LINK FENCE
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- SEWER LINE
- OVERHEAD WIRE
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- GAS LINE
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- TREE LINE
- 100-FT BUFFER ZONE
- 100-FT RIVER FRONT AREA
- 200-FT RIVER FRONT AREA
- LIMIT MEAN ANNUAL HIGH WATER
- LIMIT OF BANK
- VEGETATED WETLAND BOUNDARY

No.	Revision	Date	Appvd.

Designed by	Drawn by	Checked by
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Scale 1"=40'	Date November 6, 2014	

Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

As Built

Drawing Title

Sewer Asbuilt

COMMONWEALTH OF MASSACHUSETTS
SELBY L. TURNER III
No. 49230
REGISTERED LAND SURVEYOR

11/7/2014

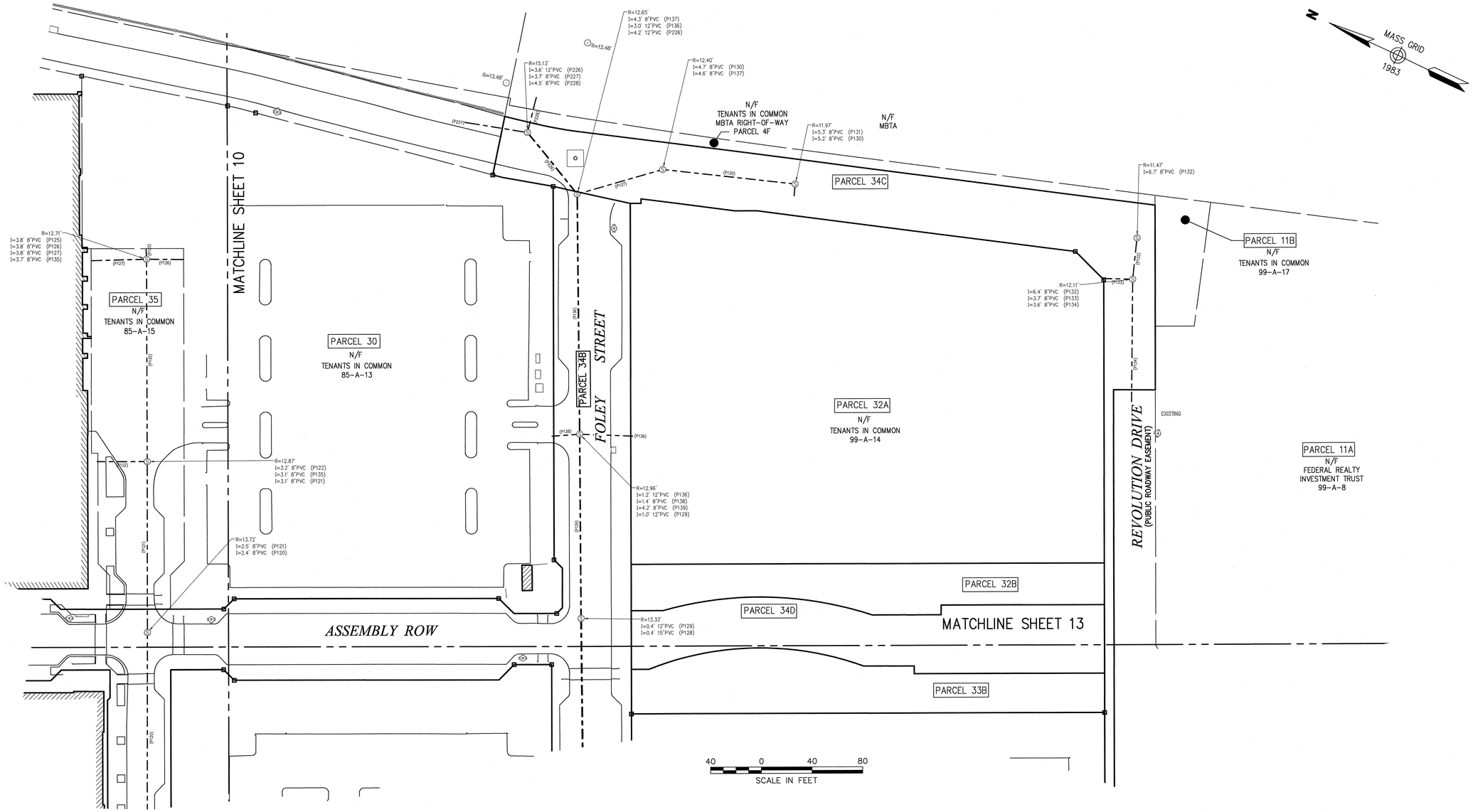
Drawing Number

Sv-10

Sheet 10 of 17

Project Number

11763.04



General Notes

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VHB
Vanasse Hangen Brustlin, Inc.
Transportation
Land Development
Environmental Services
101 Walnut Street, P.O. Box 9151
Watertown, Massachusetts 02471-9151
617 924 1770 • FAX 617 924 2286

Legend

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- BRT-100 LIMIT OF BANK
- WT-100 VEGETATED WETLAND BOUNDARY

No.	Revision	Date	Appvd.

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Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

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Drawing Title

Sewer Asbuilt

COMMONWEALTH OF MASSACHUSETTS
KELLY L. WARNER III
No. 40230
REGISTERED PROFESSIONAL ENGINEER

11/07/14

Drawing Number

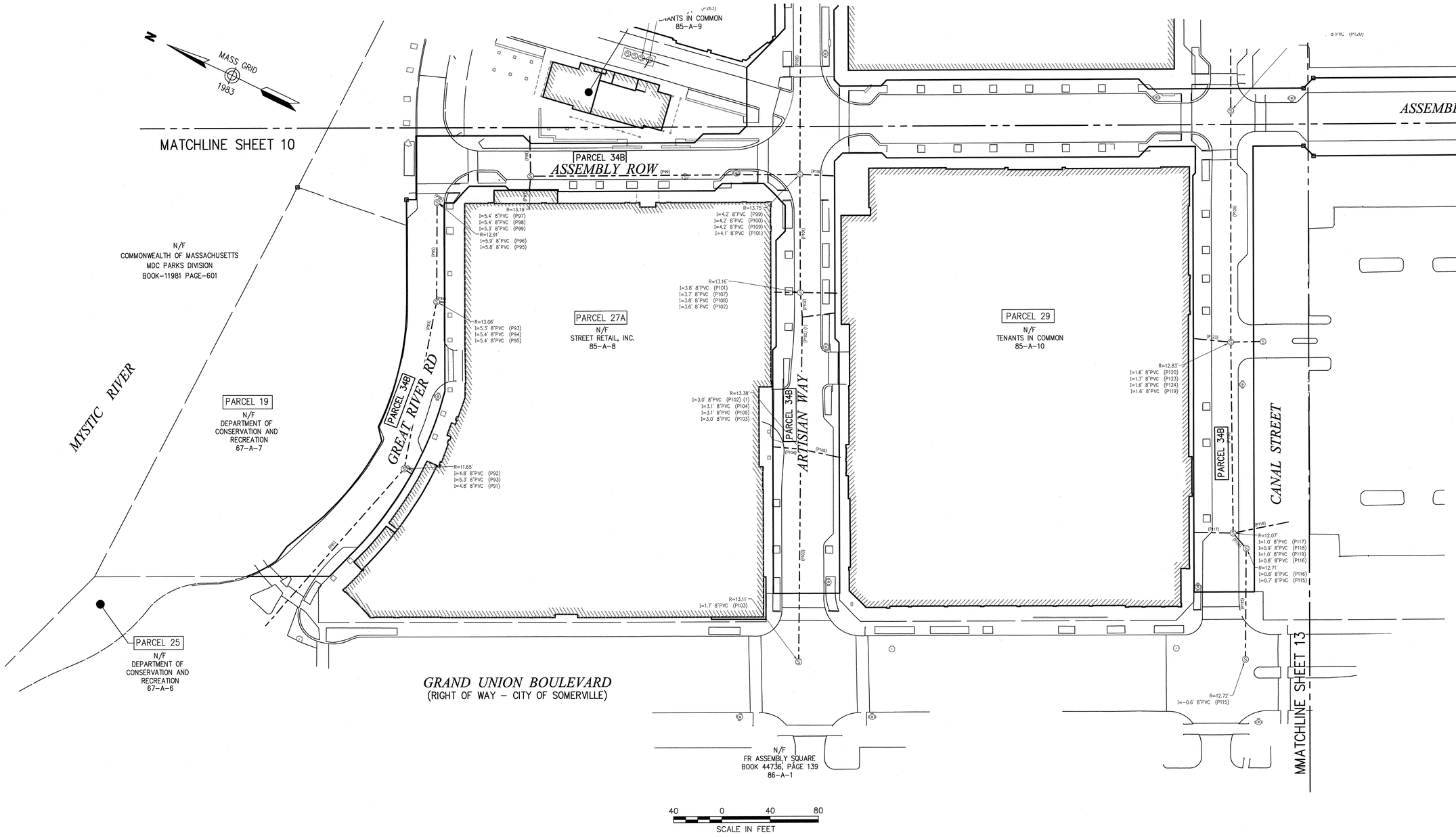
Sv-11

Sheet 11 of 17

Project Number

11763.04

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Transportation
Land Development
Environmental Services
101 Walnut Street, P.O. Box 9151
Watertown, Massachusetts 02471-9151
617 924 1770 • FAX 617 924 2286

Legend

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- MFI-100 LIMIT MEAN ANNUAL HIGH WATER
- BFI-100 LIMIT OF BANK
- WF1-100 VEGETATED WETLAND BOUNDARY

No.	Revision	Date	Appvd.

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Project Title

Assembly Row
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Somerville, Massachusetts

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Drawing Title

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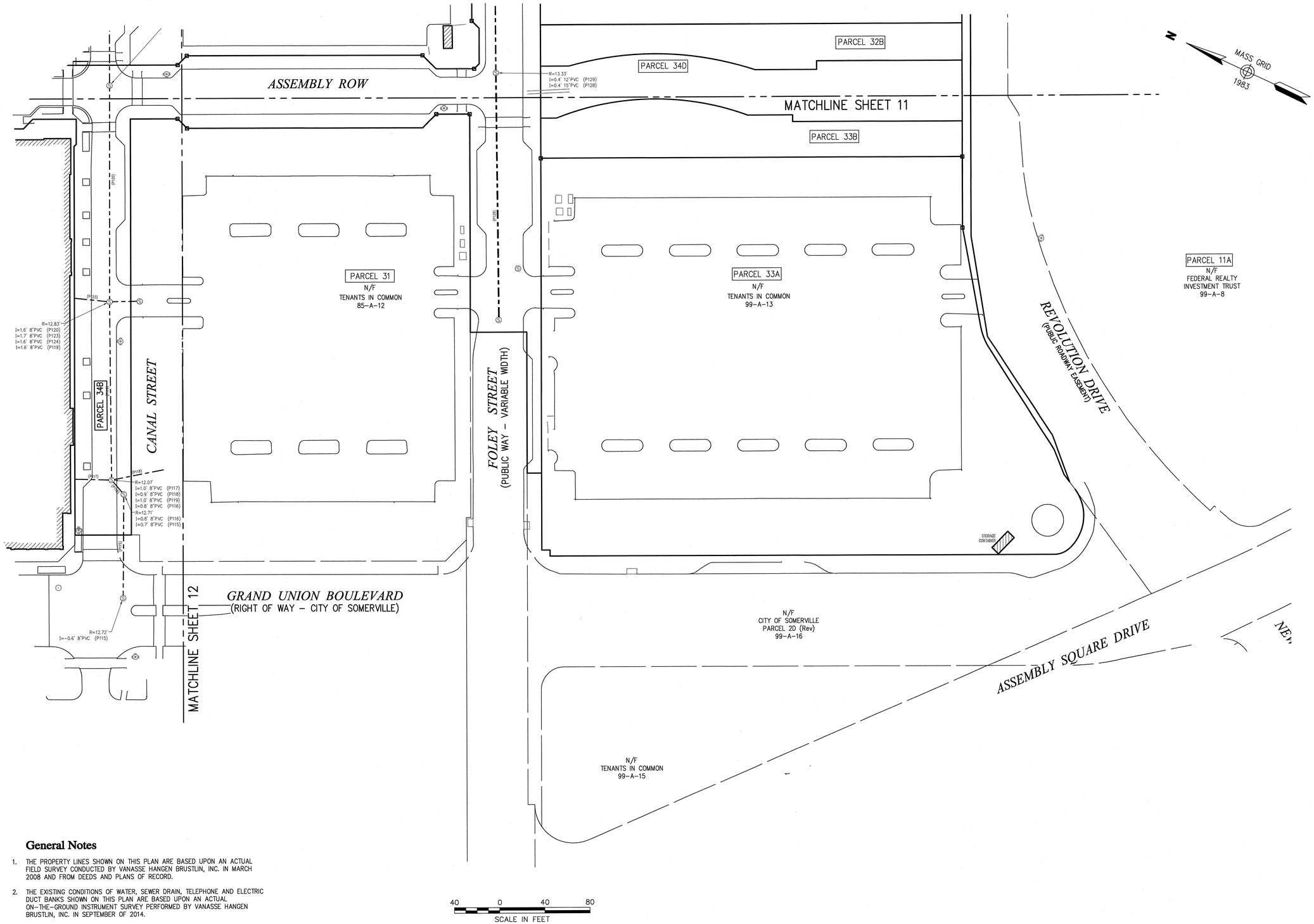
COMMONWEALTH OF MASSACHUSETTS
SEUNY K. TURNER III
No. 40290
REGISTERED LAND SURVEYOR

Drawing Number
Sv-12

Sheet 12 of 17

Project Number
11763.04

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General Notes

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VHB

Vanasse Hangen Brustlin, Inc.

Transportation
Land Development
Environmental Services

101 Walnut Street, P.O. Box 9151
Watertown, Massachusetts 02471-9151
617 924 1770 • FAX 617 924 2286

Legend

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- CATCH BASIN
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- APT-100' — LIMIT MEAN ANNUAL HIGH WATER
- BF1-100 — LIMIT OF BANK
- WF1-100 — VEGETATED WETLAND BOUNDARY

No.	Revision	Date	Appvd.

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Project Title

Assembly Row
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PUD

Somerville, Massachusetts

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Drawing Title

Sewer Asbuilt

COMMONWEALTH OF MASSACHUSETTS
STEVEN L. TURNER, JR.
No. 45230
REGISTERED PROFESSIONAL LAND SURVEYOR

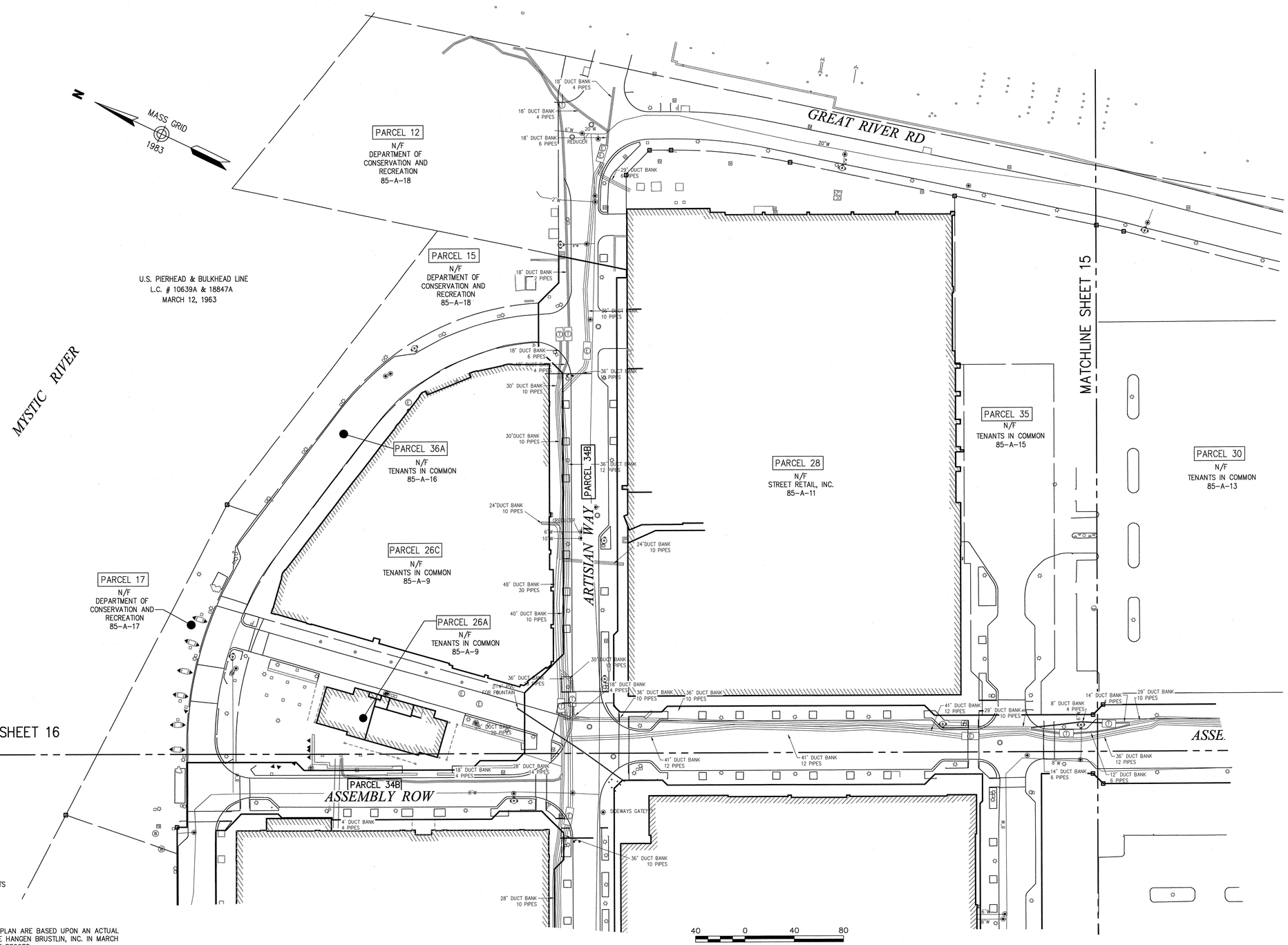
11/10/2014

Drawing Number
Sv-13

Sheet 13 of 17

Project Number
11763.04

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Transportation
Land Development
Environmental Services
101 Walnut Street, P.O. Box 9151
Watertown, Massachusetts 02471-9151
617 924 1770 • FAX 617 924 2286

Legend

- DRAIN MANHOLE
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Scale 1"=40'	Date November 6, 2014	

Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

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Drawing Title

Utility Asbuilt

COMMONWEALTH OF MASSACHUSETTS
SELBY M. TURNER III
NO. 46230
REGISTERED
LAND SURVEYOR

11/26/2014

Drawing Number

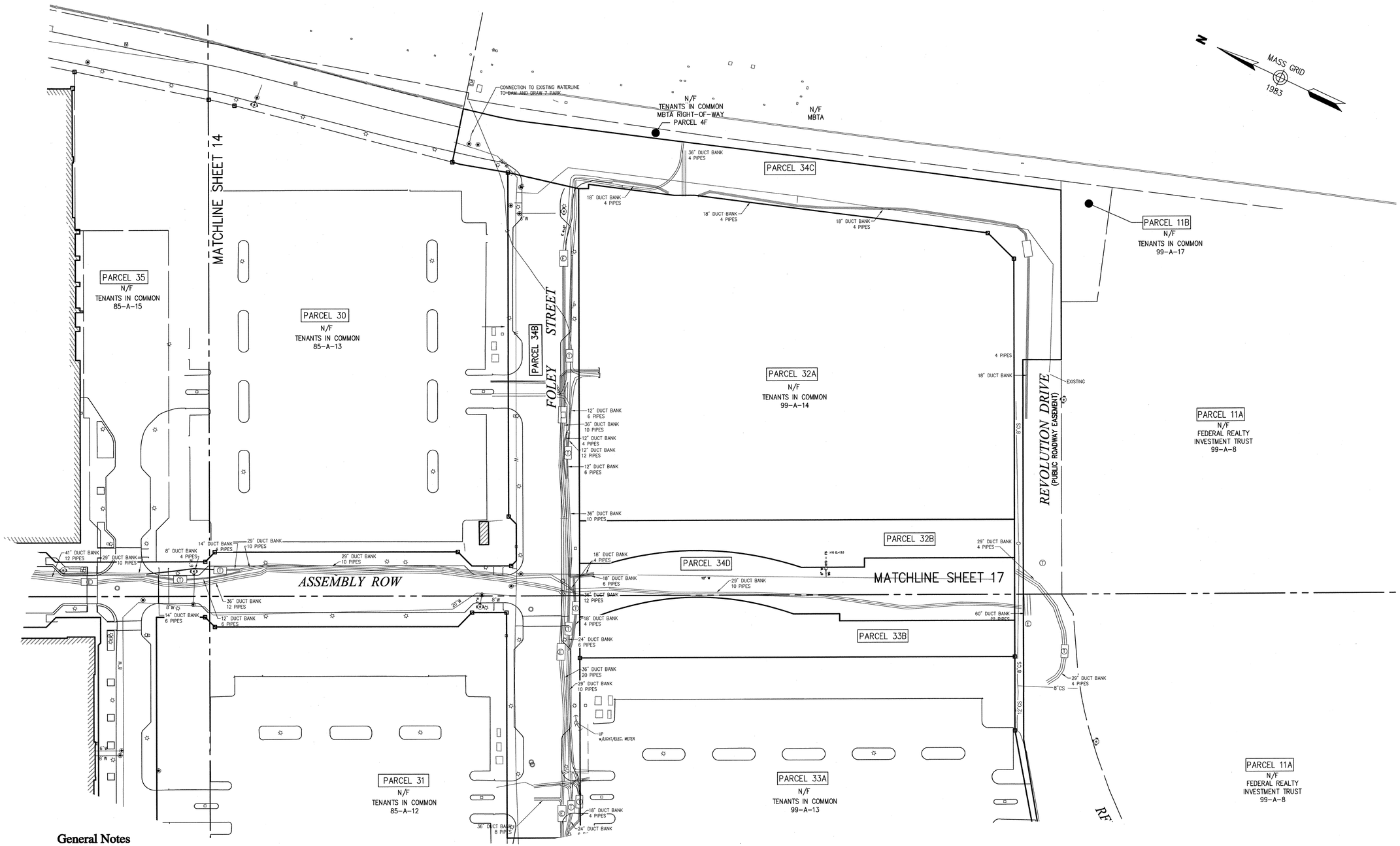
Sv-14

Sheet 15 of 17

Project Number

11763.04

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Transportation
Land Development
Environmental Services

101 Walnut Street, P.O. Box 9151
Watertown, Massachusetts 02471-9151
617 924 1770 • FAX 617 924 2286

MASS GRID 1983

Legend

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No.	Revision	Date	Appvd.
1	ADDED NSTAR GAS LOCATIONS	4-2-2012	

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Project Title

Assembly Row
Assembly Square
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Somerville, Massachusetts

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Drawing Title

Utility Asbuilt

COMMONWEALTH OF MASSACHUSETTS
JEREMY L. TURNER
No. 49259
REGISTERED PROFESSIONAL LAND SURVEYOR

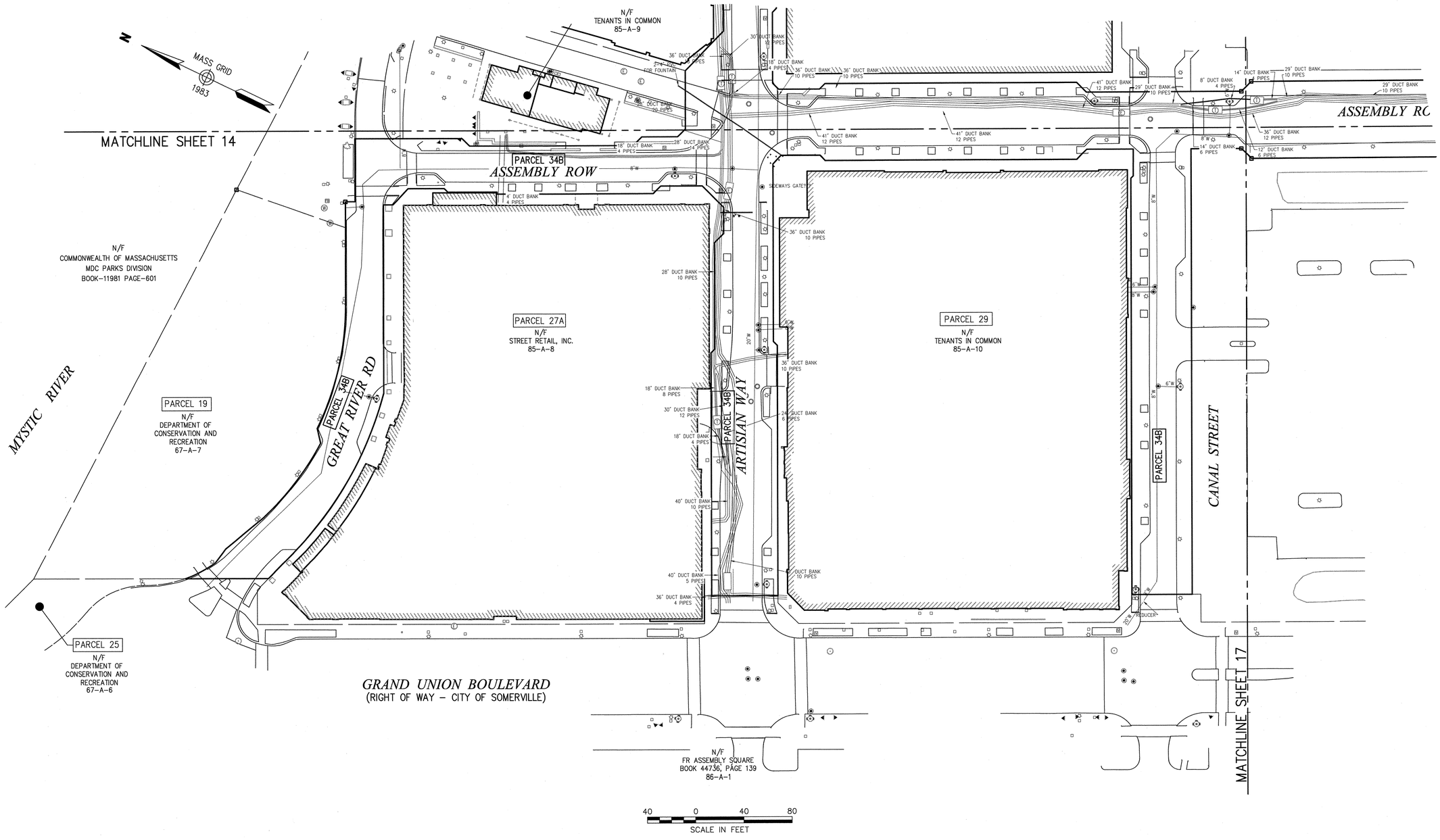
11/7/2014

Drawing Number
Sv-15

Sheet 14 of 17

Project Number
11763.04

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Legend

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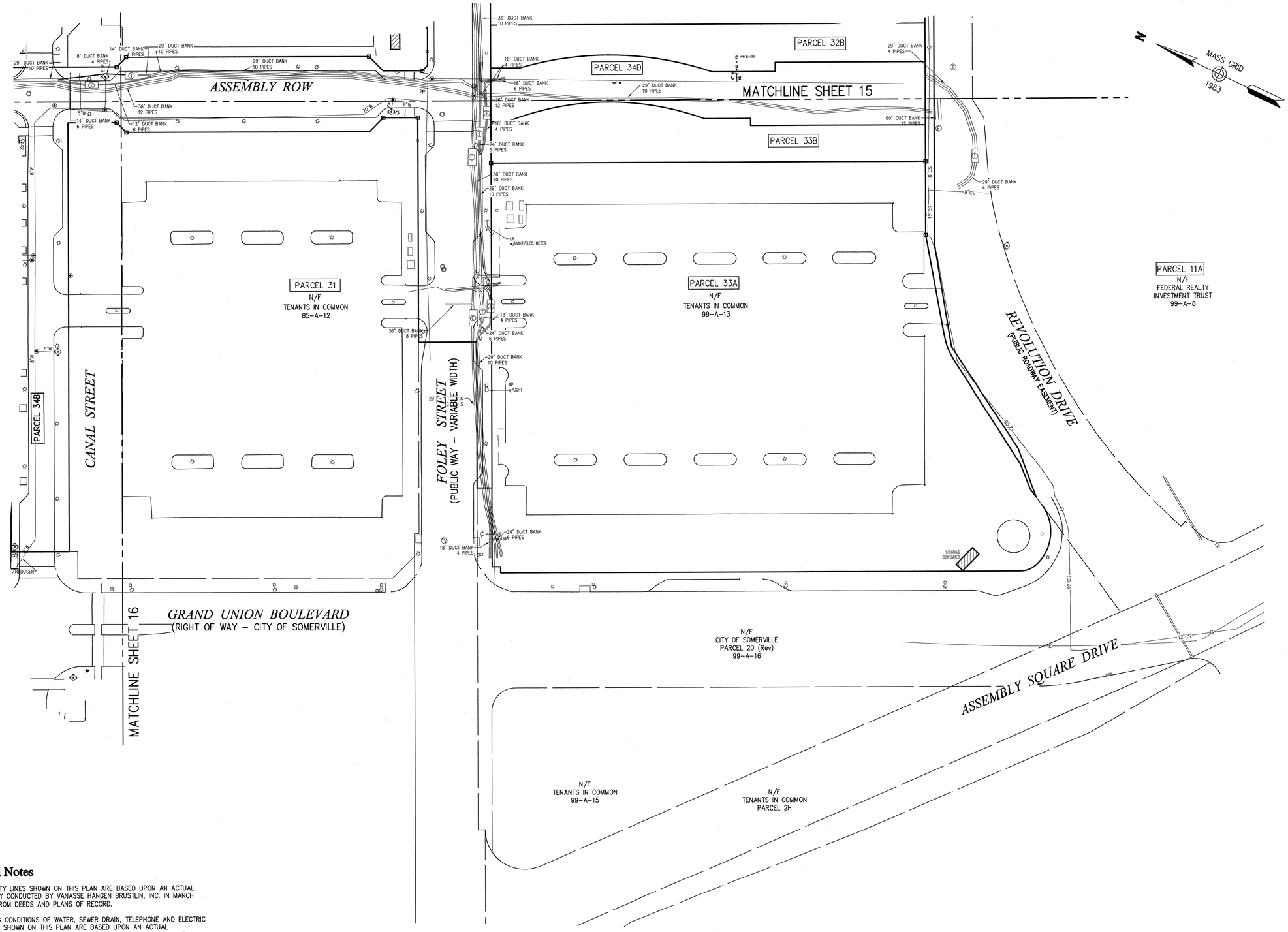
COMMONWEALTH OF MASSACHUSETTS
SELBY M. TURNER III
NO. 49258
REGISTERED LAND SURVEYOR
11/10/2014

Drawing Number
Sv-16

Sheet 16 of 17

Project Number
11763.04

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General Notes

1. THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VANASSE HANGEN BRUSTLIN, INC. IN MARCH 2008 AND FROM DEEDS AND PLANS OF RECORD.
2. THE EXISTING CONDITIONS OF WATER, SEWER DRAIN, TELEPHONE AND ELECTRIC DUCT BANKS SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY VANASSE HANGEN BRUSTLIN, INC. IN SEPTEMBER OF 2014.
3. THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS OF EXPOSED ANGLE POINTS AND PARTIAL INSTALLMENTS DURING CONSTRUCTION. VHB DID NOT OBSERVE ALL LOCATIONS OF UNDERGROUND LINES OR LINES OF SIGHT DURING INSTALLMENT.
4. HORIZONTAL DATUM IS BASED ON MASS. GRID SYSTEM, NAD 1983. ELEVATIONS SHOWN ON THIS PLAN REFER TO NGVD of 29.

VHB
Vanasse Hangen Brustlin, Inc.
Transportation
Land Development
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Watertown, Massachusetts 02471-9151
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Legend

- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- MANHOLE
- HH HAND HOLE
- WATER GATE
- FIRE HYDRANT
- GAS GATE
- STREET SIGN
- LIGHT POLE
- UTILITY POLE
- GUY POLE
- GUY WIRE
- MW MONITORING WELL
- FLOOD LIGHT
- W WELL
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- SBDH STONE BOUND DRILL HOLE
- ADA DETECTABLE WARNING PAD
- LSA LANDSCAPE AREA
- F.F.E.=45.27' FINISHED FLOOR ELEVATION
- EOP EDGE OF PAVEMENT
- CC CONCRETE CURB
- VGC VERTICAL GRANITE CURB
- SGE SLOPED GRANITE EDGE
- BB BITUMINOUS BERM
- BC BITUMINOUS CURB
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- SEWER LINE
- OHW OVERHEAD WIRE
- E UNDERGROUND ELECTRIC
- T TELEPHONE LINE
- G GAS LINE
- W WATER LINE
- STONE WALL
- TREE LINE
- 100'BZ 100-FT BUFFER ZONE
- 100'RA 100-FT RIVER FRONT AREA
- 200'RA 200-FT RIVER FRONT AREA
- AF1-100' LIMIT MEAN ANNUAL HIGH WATER
- BF1-100 LIMIT OF BANK
- WF1-100 VEGETATED WETLAND BOUNDARY

No.	Revision	Date	Appvd.

Designed by | Drawn by | Checked by
CAD checked by | Approved by
Scale 1"=40' | Date November 6, 2014

Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

issued for

As Built

Drawing Title

Utility Asbuilt

COMMONWEALTH OF MASSACHUSETTS
STEVEN L. SURPRENANT
No. 44230
REGISTERED PROFESSIONAL ENGINEER
11/7/2014

Drawing Number
Sv-17

Sheet 17 of 17

Project Number
11763.04

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