Site Plans

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

Date Issued: May 15, 2014

Latest Issue: May 15, 2014

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Bound Separately

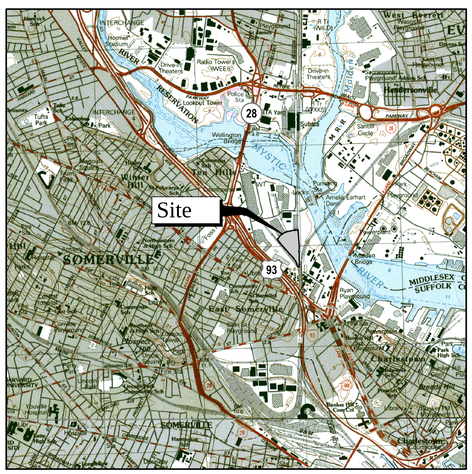
A-1	Architectural Plans	05/15/2014

Reference Plans

SV-1...SV-5	Existing Conditions Plan of Land	07/27/2009
SV-1...SV-13	Utility As-built	03/09/2012

Assembly Row Parcel 11A

Grand Union Boulevard
Somerville, Massachusetts



Site Location Map

0 1000 2000 Feet

Property Owners

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INVESTMENT TRUST

Owner:
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VHB Project No. 08518.05
Grand Union Boulevard, Somerville, Massachusetts
Issued for: Final Level PUD Approval- Final Sumbission

\\VHB\PRO\WATT~1D\08518.05\CAD\LD\PLANSET\PARTNERS\08518.05_11A~COV 3 December 2006

Saved Monday, May 12, 2014 11:35:48 PM TIMOTHYHAYES Plotted Wednesday, May 14, 2014 2:17:35 PM Hayes, Tim

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		SEWER MANHOLE
GS	GS	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
GZ	GZ	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

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 TAH | Checked by RPM
CAD checked by | Approved by HGH
Scale NTS | Date May 15, 2014

Project Title
Assembly Row
Parcel 11A

Grand Union Boulevard
Somerville, Massachusetts

Issued for
Not Approved for Construction

Drawing Title
Legend and
General Notes

Drawing Number
C-1

Sheet 1 of 10

Project Number
08518.05

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Saved Monday, May 12, 2014 2:02:49 PM TIMOTHYHAYES Plotted Wednesday, May 14, 2014 2:17:56 PM Hayes, Tim



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No.	Revision	Date	Appvd.

Designed by | Drawn by TAH | Checked by RPM
CAD checked by | Approved by HGH
Scale 1"=100' | Date May 15, 2014

Project Title
Assembly Row
Parcel 11A

Grand Union Boulevard
Somerville, Massachusetts

Issued for
Not Approved for Construction

Drawing Title
Neighborhood
Context Map 1

Drawing Number
C-2

Sheet 2 of 10

Project Number
08518.05

0851805_11A-NCM.DWG

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Saved Monday, May 12, 2014 2:02:49 PM TIMOTHYHAYES Plotted Wednesday, May 14, 2014 2:18:15 PM Hayes, Tim



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Grand Union Boulevard
Somerville, Massachusetts

Issued for

Not Approved for Construction

Drawing Title

Neighborhood
Context Map 2

Drawing Number

C-3

Sheet 3 of 10

Project Number
08518.05

0851805_11A-NCM.DWG

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Saved Tuesday, May 13, 2014 5:02:54 PM TIMOTHYHAYES Plotted Wednesday, May 14, 2014 2:19:05 PM Hayes, Tim

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

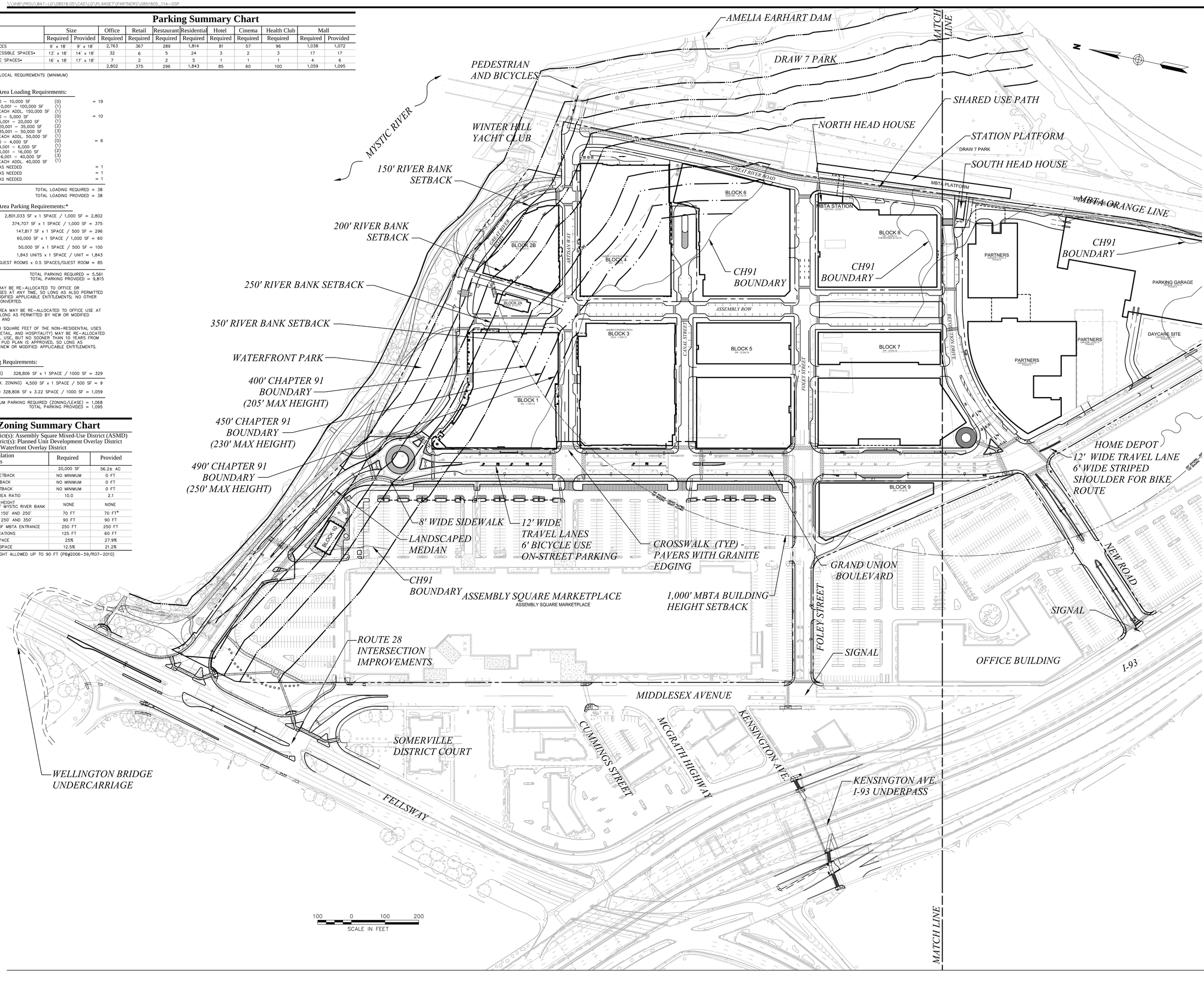
MAXIMUM PARKING REQUIRED (ZONING/LEASE) = 1,068
TOTAL PARKING PROVIDED = 1,095

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 May 15, 2014

Project Title
Assembly Row
Parcel 11A

Grand Union Boulevard
Somerville, Massachusetts

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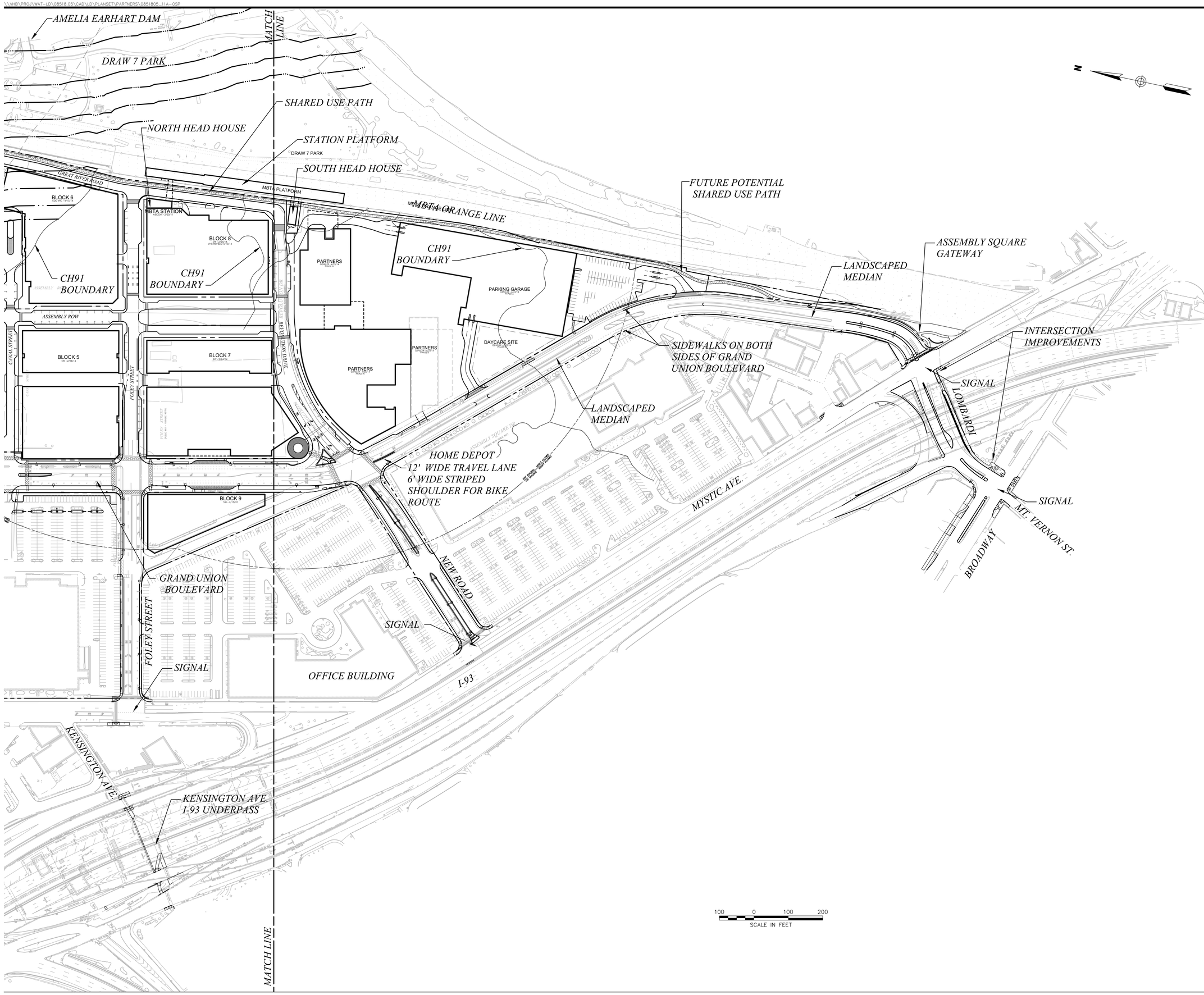
Drawing Title
Overall Site Plan 1

Drawing Number
C-4

Sheet 4 of 10

Project Number
08518.05

0851805_11A-OSP.DWG



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Project Title
Assembly Row
Parcel 11A

Grand Union Boulevard
Somerville, Massachusetts

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Drawing Title
Overall Site Plan 2

Drawing Number
C-5

Sheet 5 of 10

Project Number
08518.05

0851805_11A-OSP.DWG

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Saved: Wednesday, May 14, 2014 1:49:19 PM TMOTHYHAYES Plotted: Wednesday, May 14, 2014 2:20:21 PM Hayes, Tim

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	464,265 SF
FRONT YARD SETBACK	NO MINIMUM	5.4 FT
SIDE YARD SETBACK	NO MINIMUM	6.4 FT
REAR YARD SETBACK	NO MINIMUM	10.3 FT
MAX. FLOOR AREA RATIO	10.0	2.4
MAX. BUILDING HEIGHT < 150' OF MYSTIC RIVER BANK	NONE	NONE
BETWEEN 150' AND 250'	70 FT	0 FT
BETWEEN 250' AND 350'	90 FT	0 FT
WITHIN 1,000' OF MBTA ENTRANCE	250 FT	250 FT
ALL OTHER LOCATIONS	125 FT	0 FT
TOTAL OPEN SPACE	25%	31.9%
USABLE OPEN SPACE	12.5%	29.0%

Parking Summary Chart

Description	Size Required	Size Provided	Phase A Spaces Required	Phase A Spaces Provided	Full Build Spaces Required	Full Build Spaces Provided
STANDARD SPACES	9'x18'	9'x18'	920	2,260	1,279	2,864
COMPACT SPACES (20% ALLOWED)	8'x16'	–	–	–	–	–
STANDARD ACCESSIBLE SPACES *	13'x18'	14'x18'	15	27	20	33
VAN ACCESSIBLE SPACES *	16'x18'	18'x18'	4	6	4	7
TOTAL SPACES			939	2,293	1,303	2,904
LOADING BAYS **	12'x30'x14'	12'x35'x14'	14	4**	14	5**

* ADA/STATE/LOCAL REQUIREMENTS. REQUIRED ACCESSIBLE SPACES BASED ON TOTAL PROVIDED MALL PARKING. SEE OVERALL SITE PLAN.

** WAIVER REQUESTED (SEE SECTION B.1 REQUESTED WAIVERS OF BLOCK 11 SPSR-A)

Partners Phase A Parking Requirements:

RETAIL	40,000 SF x 1 SPACE / 1000 SF = 40
OFFICE	769,000 SF x 1 SPACE / 1000 SF = 769
RESTAURANT	15,000 SF x 1 SPACE / 500 SF = 30
HEALTH CLUB	50,000 SF x 1 SPACE / 500 SF = 100

TOTAL PARKING REQUIRED = 939
TOTAL PARKING PROVIDED = 1,997

Partners Phase B Parking Requirements:

OFFICE	338,203 SF x 1 SPACE / 1000 SF = 339
DAYCARE	12,500 SF x 1 SPACE / 500 SF = 25

TOTAL ADDITIONAL PARKING REQUIRED = 364
TOTAL FULL BUILD PARKING REQUIRED = 1,303
FULL BUILD PARKING PROVIDED = 2,904

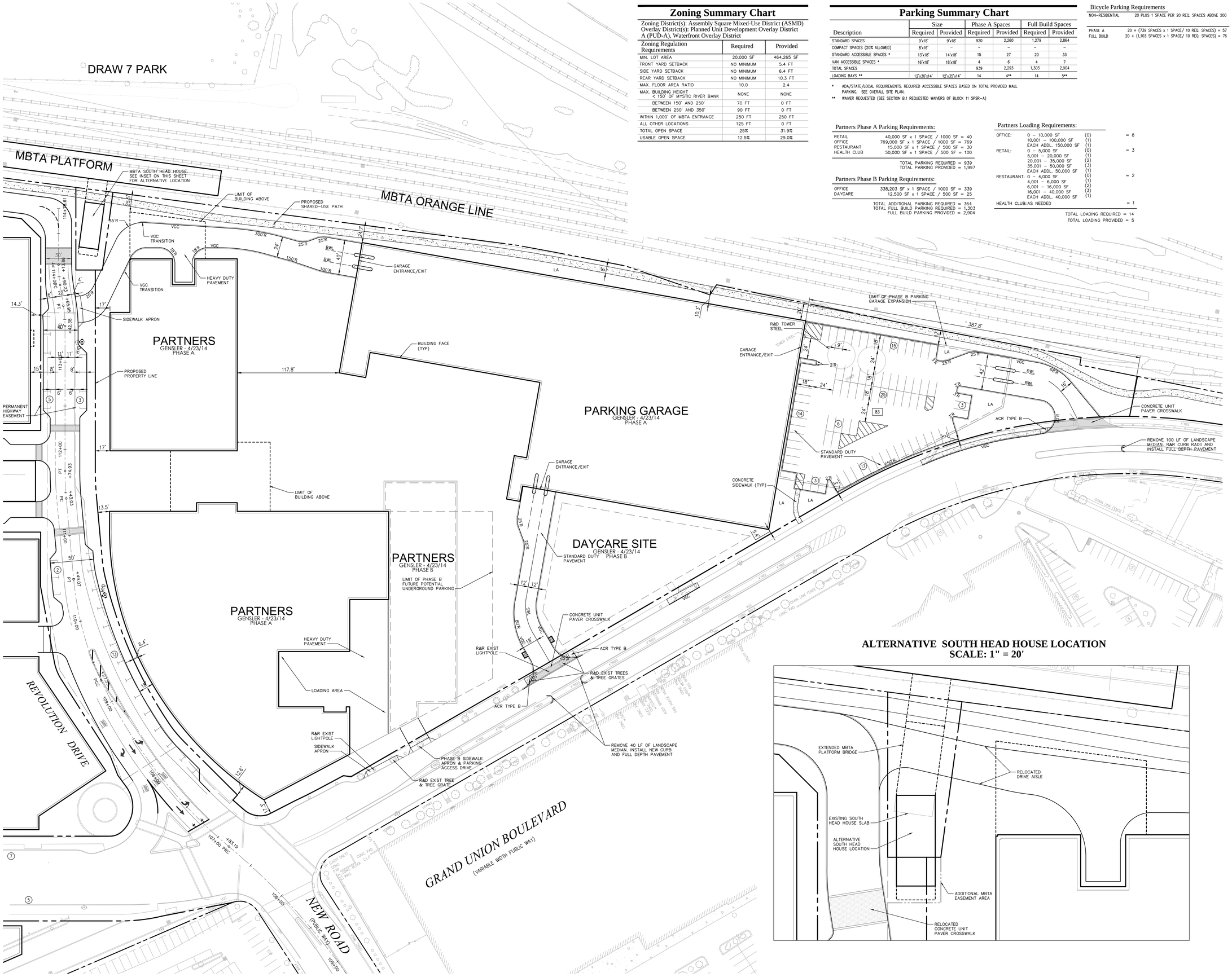
Bicycle Parking Requirements

NON-RESIDENTIAL	20 PLUS 1 SPACE PER 20 REQ. SPACES ABOVE 200
PHASE A	20 + (739 SPACES x 1 SPACE/ 10 REQ. SPACES) = 57
FULL BUILD	20 + (1,103 SPACES x 1 SPACE/ 10 REQ. SPACES) = 76

Partners Loading Requirements:

OFFICE:	0 – 10,000 SF	(0)	= 8
	10,001 – 100,000 SF	(1)	
	EACH ADDL. 150,000 SF	(1)	
RETAIL:	0 – 5,000 SF	(0)	= 3
	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)	= 2
	4,001 – 6,000 SF	(1)	
	6,001 – 16,000 SF	(2)	
	16,001 – 40,000 SF	(3)	
	EACH ADDL. 40,000 SF	(1)	
HEALTH CLUB: AS NEEDED			= 1

TOTAL LOADING REQUIRED = 14
TOTAL LOADING PROVIDED = 5



ALTERNATIVE SOUTH HEAD HOUSE LOCATION
SCALE: 1" = 20'

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Scale: 1"=40' | Date: May 15, 2014

Project Title
Assembly Row
Parcel 11A

Grand Union Boulevard
Somerville, Massachusetts

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Drawing Title
Layout and
Materials Plan

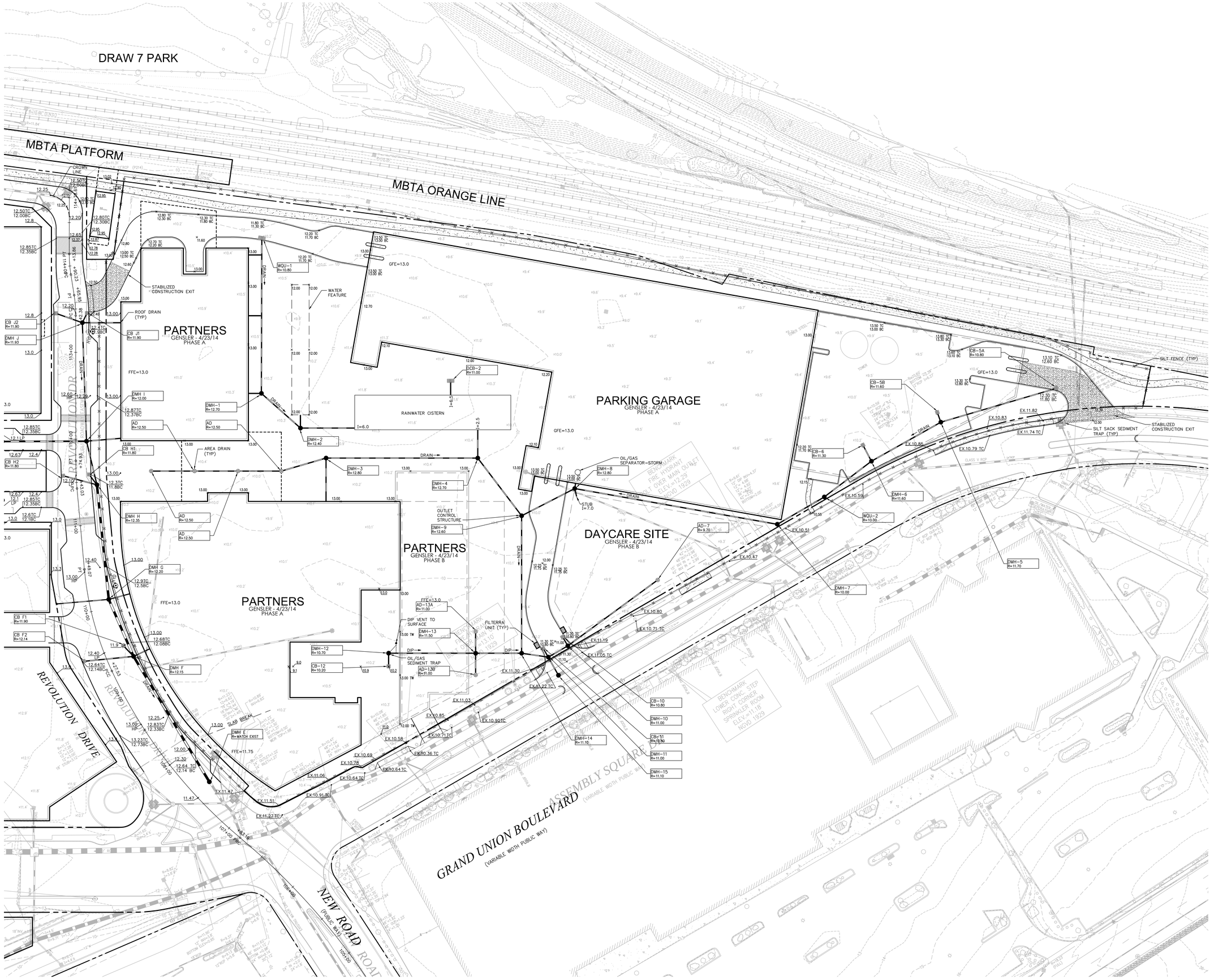
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C-6

Sheet 6 of 10

Project Number
08518.05

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SCALE IN FEET

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Project Title
Assembly Row
Parcel 11A

Grand Union Boulevard
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Drawing Title
Grading, Drainage and Erosion Control Plan

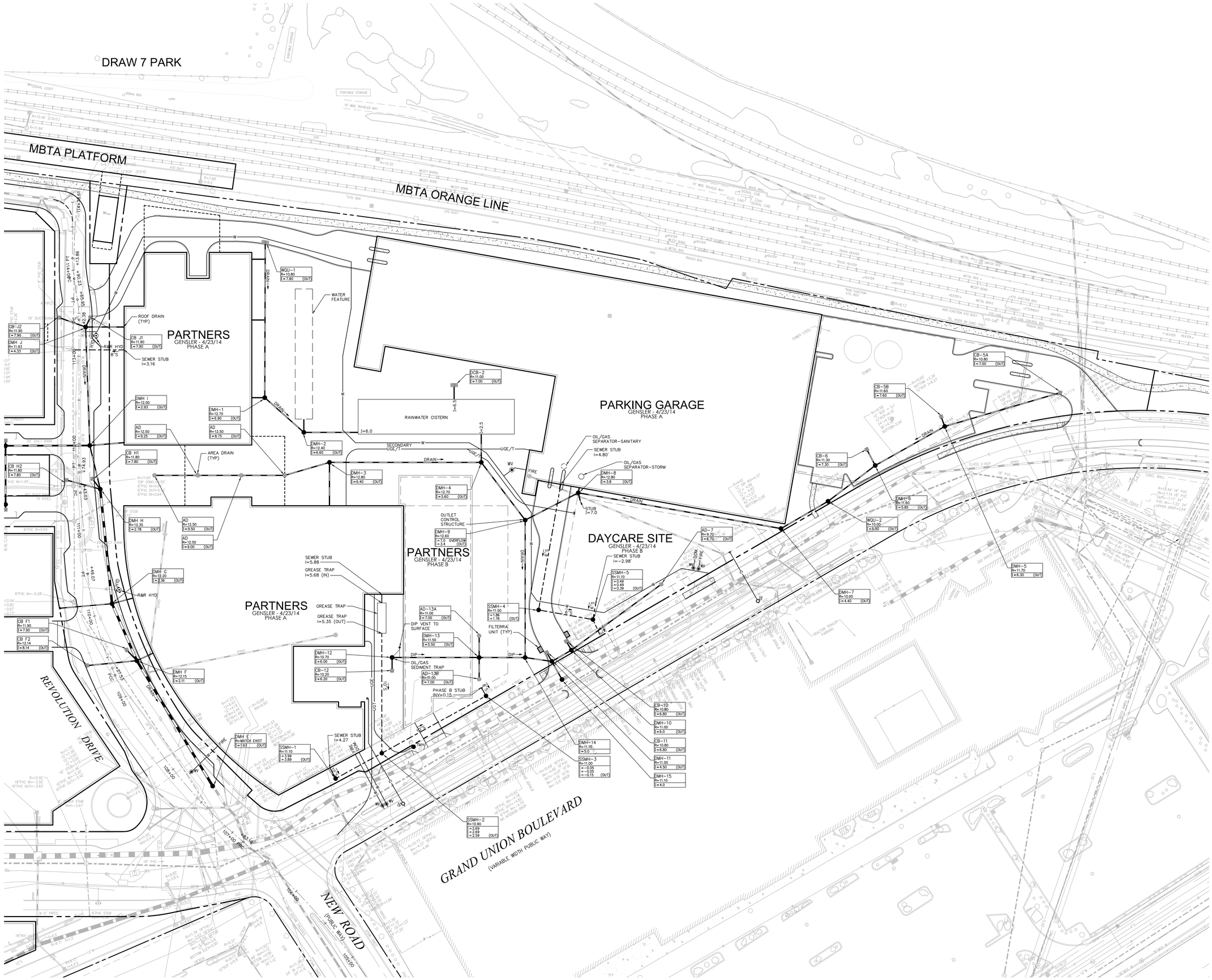
Drawing Number
C-7

Sheet 7 of 10

Project Number
08518.05

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SCALE IN FEET

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Project Title

Assembly Row Parcel 11A

Grand Union Boulevard
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Drawing Title

Utility Plan

Drawing Number

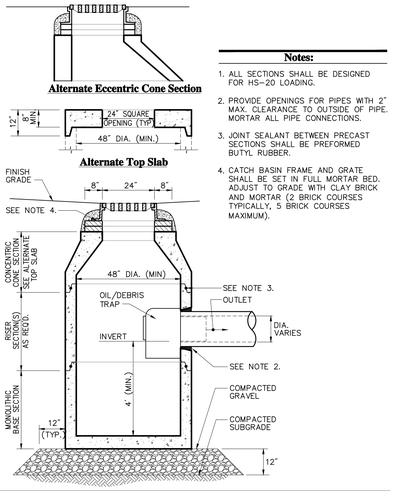
C-8

Sheet 8 of 10

Project Number 08518.05

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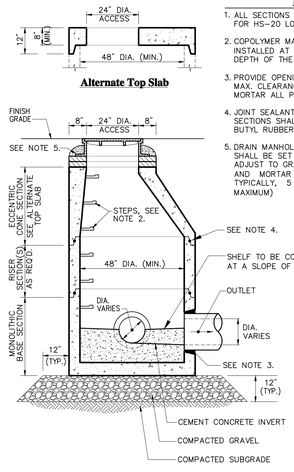
Notes:

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).

Catch Basin (CB) With Oil/Debris Trap

6/08

N.T.S. Source: VHB LD_101



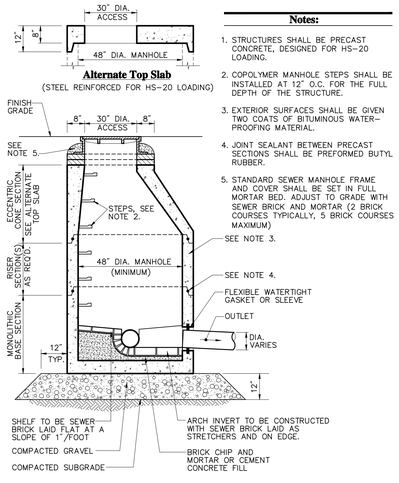
Notes:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
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)

6/08

N.T.S. Source: VHB LD_115



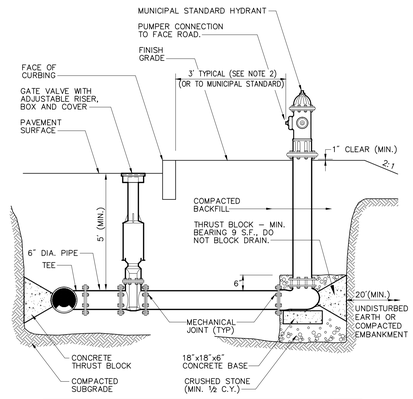
Notes:

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



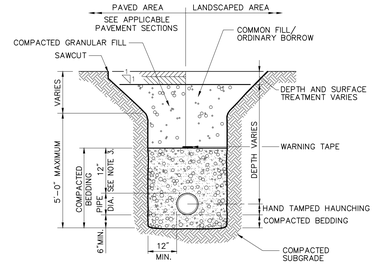
Notes:

1. CONCRETE THRUST BLOCKS TO BE USED ONLY WHERE THEY CAN BEAR ON UNDISTURBED EARTH AS SHOWN. USE CLAMPS AND TIE RODS OR OTHER ACCEPTABLE METHOD OF JOINT RESTRAINT WHERE SOIL CONDITIONS PROHIBIT THE USE OF THRUST BLOCKS.
2. HYDRANT IN SIDEWALK AREAS TO BE LOCATED TO PROVIDE MINIMUM CLEAR SIDEWALK PASSAGE WIDTH OF 3 FEET AT HYDRANT.

Hydrant Construction

6/08

N.T.S. Source: VHB LD_250



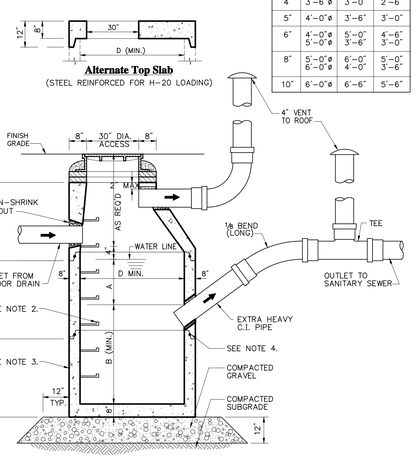
Notes:

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.
3. FOR HDPE PIPE, DIMENSION IS 24 INCHES.

Utility Trench

6/08

N.T.S. Source: VHB LD_300



INLET SIZE	D	A	B
4"	3'-6"ø	3'-0"	2'-6"
5"	4'-0"ø	3'-6"	3'-0"
6"	4'-0"ø 5'-0"ø	5'-0" 3'-6"	4'-6" 3'-0"
8"	5'-0"ø 6'-0"ø	6'-0" 4'-0"	5'-0" 3'-6"
10"	6'-0"ø	6'-6"	5'-6"

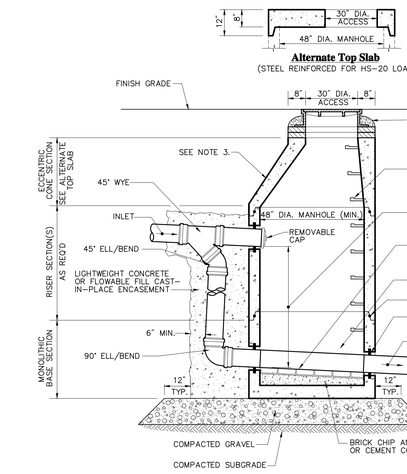
Notes:

1. STRUCTURE SHALL BE 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 WATERPROOFING 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 CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).
6. STRUCTURE TO BE LOCATED OUTSIDE OF BUILDING WHERE POSSIBLE.
7. THE STRUCTURE SHALL BE SO LOCATED AND CONSTRUCTED THAT SURFACE WATER SHALL BE EXCLUDED.
8. INLET PIPE SHALL BE AT LEAST FOUR INCHES ABOVE NORMAL WATER LINE.
9. WHERE SUBJECT TO FROST OR CRUSHING CONDITIONS, OUTLET SHALL BE AT LEAST THREE FEET BELOW THE SURFACE.
10. THE NEW SEPARATOR MUST BE FILLED WITH CLEAN WATER BEFORE USING, AND AFTER BEING EMPTIED FOR PERIODIC CLEANING.
11. OIL AND GASOLINE MUST BE REMOVED BEFORE CLEANING OUT THE BASIN, AND MUST NOT BE DISCHARGED INTO THE SEWER THROUGH OTHER FIXTURES.
12. SPECIFICATIONS FOR COVERING SPECIAL CASES OR CONDITIONS, SHALL BE APPROVED BY THE LOCAL AUTHORITIES, AND THE AUTHORITIES OF THE M.W.R.A.
13. BOTH VENTS SHALL BE EXTENDED INDEPENDENTLY 18" ABOVE THE ROOF, OR AS APPROVED BY THE LOCAL AUTHORITIES, AND THE AUTHORITIES OF THE M.W.R.A.
14. ALL PIPING AND VENT MATERIAL TO BE EXTRA HEAVY CAST IRON OR DUCTILE IRON.

Oil And Gasoline Separator (Garages)

6/08

N.T.S. Source: VHB LD_140



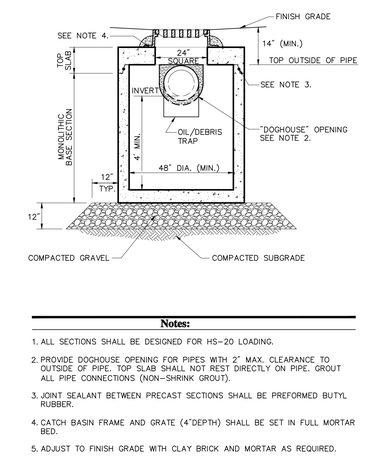
Notes:

1. STRUCTURE SHALL BE 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 WATERPROOFING MATERIAL.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
5. 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)

Exterior Drop Sewer Manhole (SMH) Type "B"

6/08

N.T.S. Source: VHB LD_204



Notes:

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.

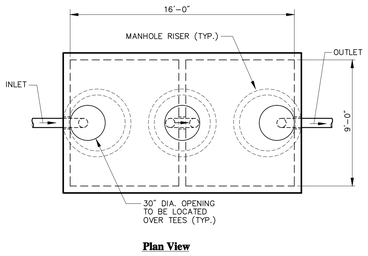
Catch Basin (CB) Shallow Cover with Oil/Debris Trap

6/08

N.T.S. Source: VHB LD_105

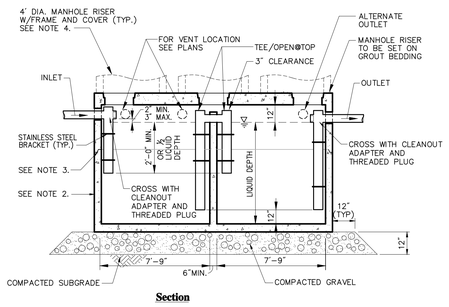
Notes:

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.



Plan View

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"

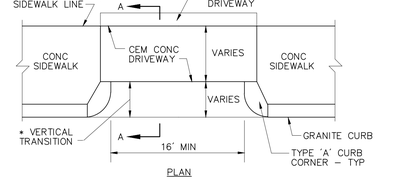


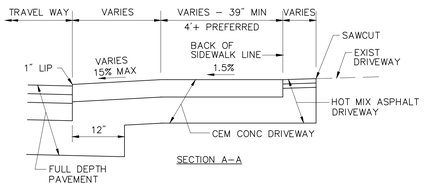
Section

Precast Concrete Grease Trap (GT)

6/08

N.T.S. Source: VHB LD_211





* DRIVEWAY SLOPED TO MEET BACK OF SIDEWALK LINE

Typical Driveway with Sidewalk and Granite Curb Corner

N.T.S. Source: VHB

No.	Revision	Date	Appvd.

Designed by | Drawn by TAH | Checked by RPM
CAD checked by | Approved by HGH
Scale N.T.S. | Date May 15, 2014

Project Title
Assembly Row
Parcel 11A

Grand Union Boulevard
Somerville, Massachusetts

Issued for

Not Approved for Construction

Drawing Title
Detail Sheet 1

Drawing Number
C-9

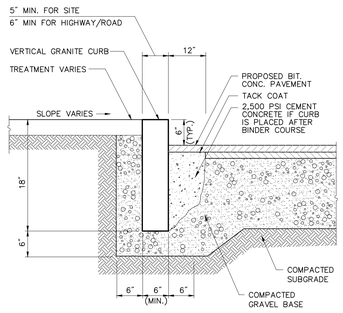
Sheet 9 of 10

Project Number
08518.05

\\VHB\PROJ\WAT-LD\08518.05\CAD\LD\PLANSET\PARTNERS\0851805_11A-DT

Saved Wednesday, May 14, 2014 2:15:24 PM TIMOTHYHAYES Plotted Wednesday, May 14, 2014 2:21:09 PM Hayes, Tim

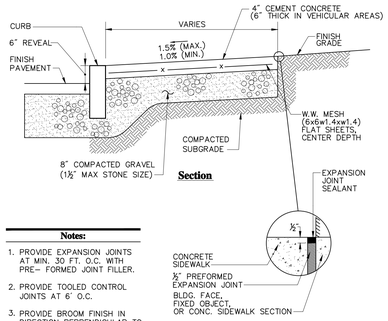
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Land Development
Environmental Services
101 Walnut Street, P.O. Box 9151
Watertown, Massachusetts 02471
617.924.1770 • FAX 617.924.2286



Vertical Granite Curb (VGC)

6/08

N.T.S. Source: VHB LD_402



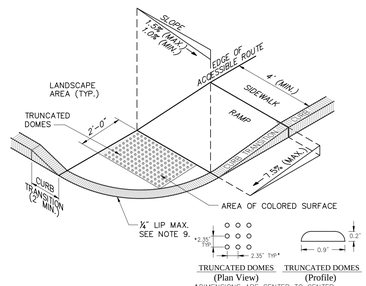
Notes:

1. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE– FORMED JOINT FILLER.
2. PROVIDE TOOLED CONTROL JOINTS AT 6' O.C.
3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
4. CEMENT CONCRETE SHALL BE 4000 PSI–TYPE II

Concrete Sidewalk

6/08

N.T.S. Source: VHB LD_420



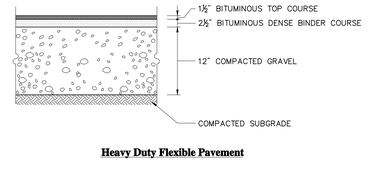
Notes:

1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 1.5 (1% MIN.).
2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE AT CURB RAMPS SHALL BE 7.5%.
4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
5. CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE.
6. RAMP, CURB AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
7. SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION.
8. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5' x 5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
9. ELIMINATE CURBING AT RAMP WHERE IT ABUTS ROADWAY, EXCEPT WHERE VERTICAL CURBING IS INDICATED ON THE DRAWINGS TO BE INSTALLED AND SET FLUSH.
10. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES.
11. DETECTABLE WARNINGS SHALL BE INSTALLED PERPENDICULAR TO THE ACCESSIBLE ROUTE.
12. CONTRACTOR TO SUBMIT R.F.I. FOR THIS TYPE OF ACCESSIBLE CURB RAMP FOR APEX ROADWAY CROSSINGS.

Accessible Curb Ramp (ACR) - Type 'B-D'

9/13

N.T.S. Source: VHB LD_501



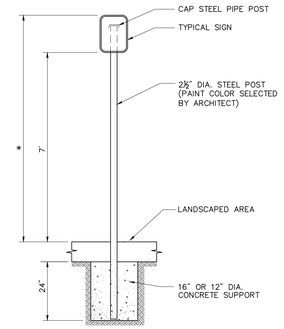
Note:

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

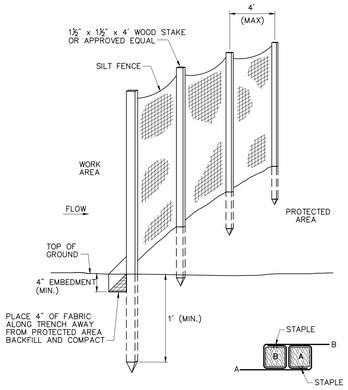


* THIS DIMENSION SHALL BE A MINIMUM OF 5' AND A MAXIMUM OF 8' FOR ACCESSIBLE SIGNAGE IN THE COMMONWEALTH OF MASSACHUSETTS.

Sign Post - Type 'A'

6/08

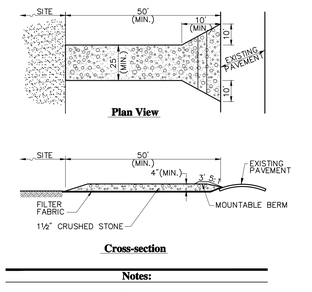
N.T.S. Source: VHB LD_701



Silt Fence Barrier

6/08

N.T.S. Source: VHB LD_650



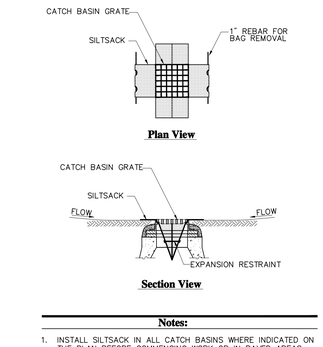
Notes:

1. ENTRANCE WIDTH SHALL BE A TWENTY–FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

Stabilized Construction Exit

6/08

N.T.S. Source: VHB LD_682



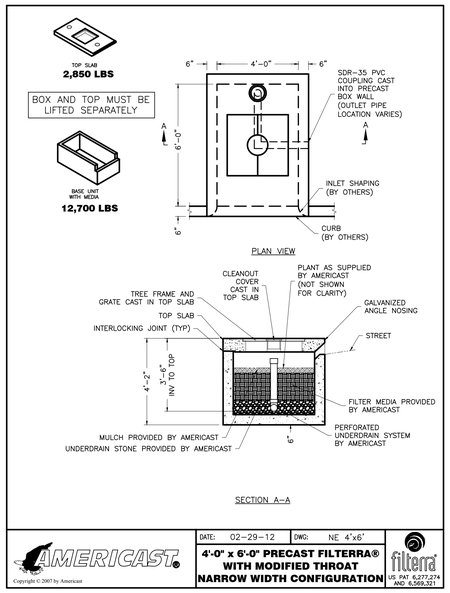
Notes:

1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
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 PERMANENTLY STABILIZED

Siltsack Sediment Trap

6/08

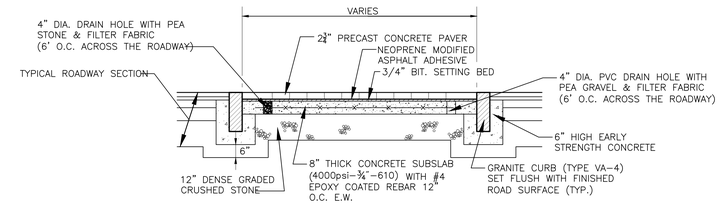
N.T.S. Source: VHB LD_674

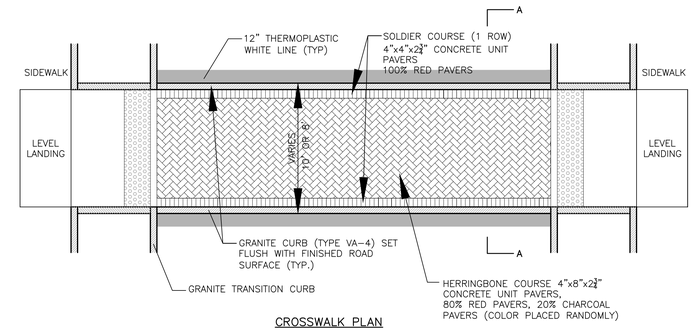


AMERICAST
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DATE: 02–29–12	DWG: NE 4'x6'
4'-0" x 6'-0" PRECAST FILTERRA® WITH MODIFIED THROAT NARROW WIDTH CONFIGURATION	filterra® US PAT. 6,277,274 AND 6,569,321

PAVER CROSS–SECTION SHOWN IN SECTION A–A APPLIES TO ALL PAVER SURFACES WITHIN ROADWAY AREAS (CROSSWALKS, TRAVERSABLE APRON, PULL–OUTS, ETC.)





NOTE: MINIMUM PAVER THICKNESS SHALL BE 2¾" AND BE RATED FOR VEHICULAR TRAFFIC

Concrete Unit Paver Crosswalk

N.T.S. Source: VHB

No.	Revision	Date	Appvd.

Designed by | Drawn by TAH | Checked by RPM
CAD checked by | Approved by HGH
Scale N.T.S. | Date May 15, 2014

Project Title
Assembly Row
Parcel 11A

Grand Union Boulevard
Somerville, Massachusetts

Issued for

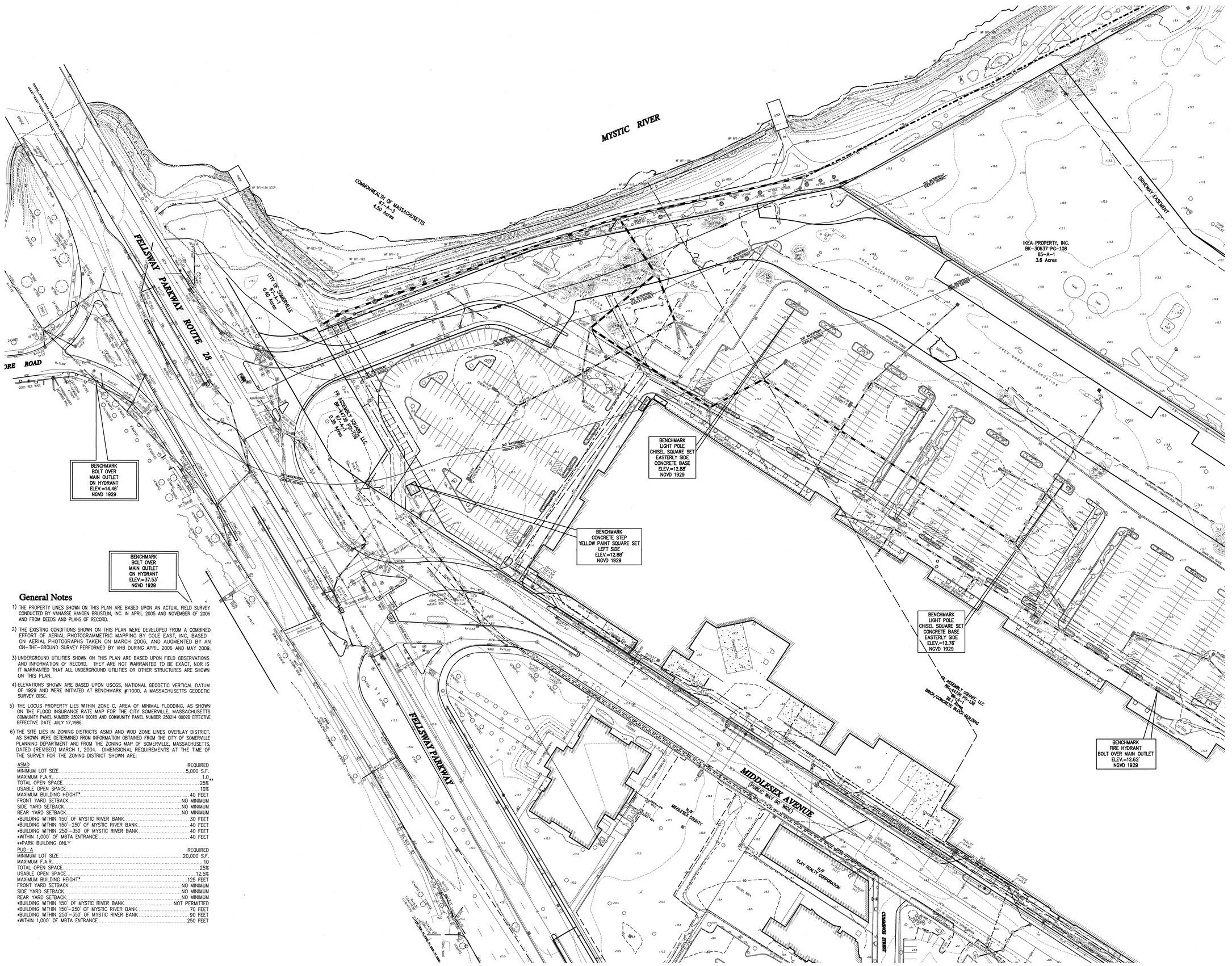
Not Approved for Construction

Drawing Title
Detail Sheet 2

Drawing Number
C-10

Sheet 10 of 10

Project Number
08518.05



General Notes

1) THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VANASSE HANGEN BRUSTLIN, INC. IN APRIL 2005 AND NOVEMBER OF 2006 AND FROM DEEDS AND PLANS OF RECORD.

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ASMD	REQUIRED
MINIMUM LOT SIZE	5,000 S.F.
MAXIMUM F.A.R.	1.0
TOTAL OPEN SPACE	25%**
USABLE OPEN SPACE	10%
MAXIMUM BUILDING HEIGHT*	40 FEET
FRONT YARD SETBACK	NO MINIMUM
SIDE YARD SETBACK	NO MINIMUM
REAR YARD SETBACK	NO MINIMUM
*BUILDING WITHIN 150' OF MYSTIC RIVER BANK	30 FEET
*BUILDING WITHIN 150'-250' OF MYSTIC RIVER BANK	40 FEET
*BUILDING WITHIN 250'-350' OF MYSTIC RIVER BANK	40 FEET
*WITHIN 1,000' OF MBTA ENTRANCE	40 FEET
**PARK BUILDING ONLY	

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Legend

- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- MANHOLE
- HANDHOLE
- WATER GATE
- FIRE HYDRANT
- GAS GATE
- STREET SIGN
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- SEWER LINE
- OHW OVERHEAD WIRE
- E UNDERGROUND ELECTRIC
- T TELEPHONE LINE
- G GAS LINE
- W WATER LINE
- STONEWALL
- TREELINE
- 100'BZ 100-FT BUFFER ZONE
- 100'RA 100-FT RIVERFRONT AREA
- 200'RA 200-FT RIVERFRONT AREA
- AF1-100 LIMIT MEAN ANNUAL HIGH WATER
- BF1-100 LIMIT OF BANK
- WF1-100 VEGETATED WETLAND BOUNDARY

VHB

Vanasse Hangen Brustlin, Inc.

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Environmental Services

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

N

MASS GRID

No.	Revision	Date	Appvd.
4	Update Site Demo	May 2009	
3	Wetlands & General Notes	July 2007	
2	Easement & Property	OCT 2006	
1	DRAINAGE UPDATE	MAY 2006	

Designed by	Drawn by	Checked by	
CAD checked by		Approved by	
Scale 1"=50'		Date February 1, 2006	

Project Title

Assembly Square

Somerville, Massachusetts

Issued for

Drawing Title

Existing Conditions Plan of Land

Drawing Number

Sv-1

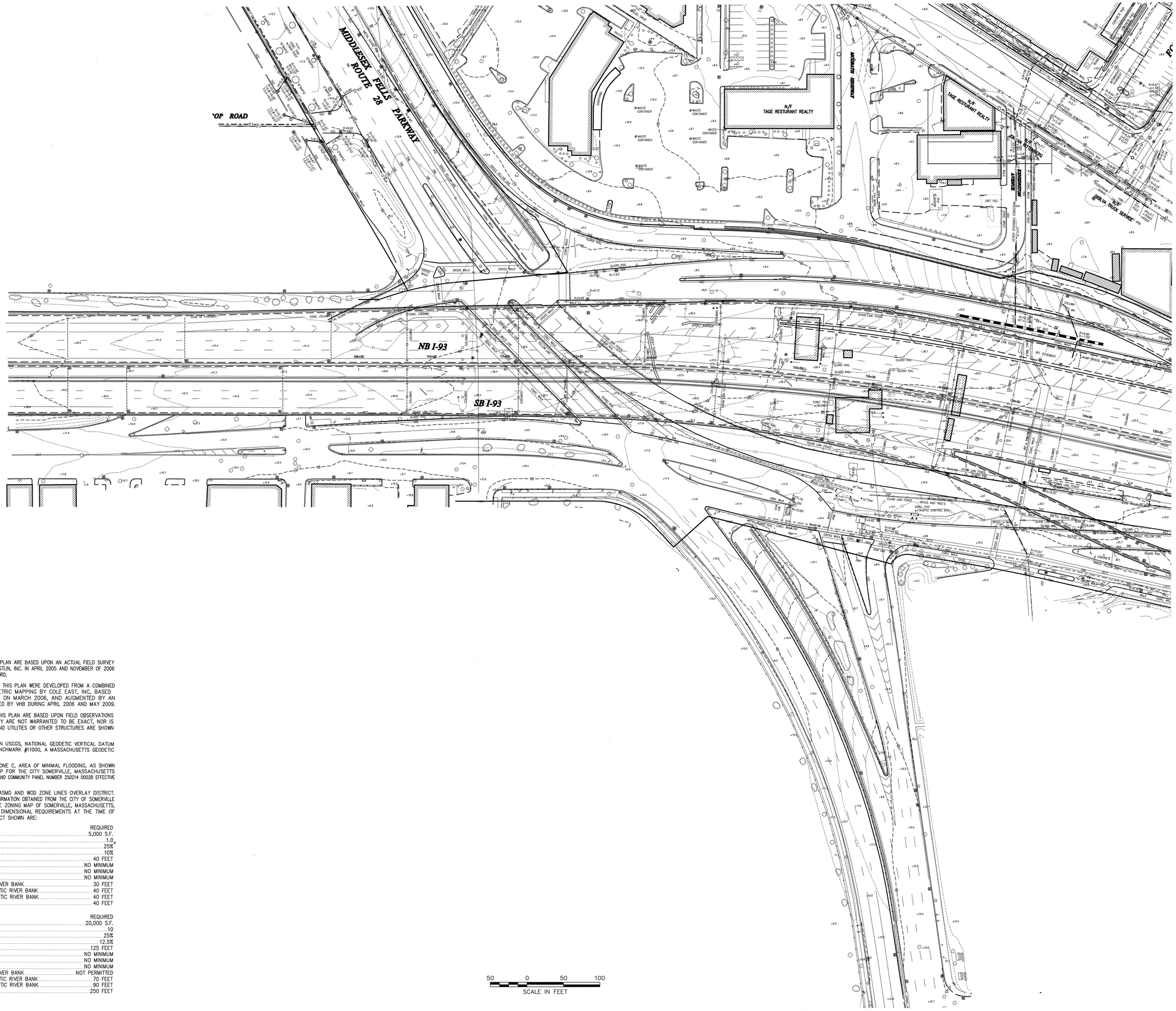
COMMONWEALTH OF MASSACHUSETTS
RUSSELL J. DOUCETTE
NO. 35301
REGISTERED
PROFESSIONAL
LAND SURVEYOR

7/28/09

1 of 5

08518

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50 0 50 100
SCALE IN FEET

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Designed by | Drawn by | Checked by
CAD checked by | Approved by
Scale 1"=50' | Date February 1, 2006

Project Title
Assembly Square

Somerville, Massachusetts
Issued for

Drawing Title
Existing Conditions Plan of Land

COMMONWEALTH OF MASSACHUSETTS
RUSSELL J. DORSHKIND
NO. 35389
REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
7/12/09

Drawing Number
Sv-2
2 5
08518

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- TREELINE
- 100'BZ 100-FT BUFFER ZONE
- 100'RA 100-FT RIVERFRONT AREA
- 200'RA 200-FT RIVERFRONT AREA
- AF1-100 LIMIT MEAN ANNUAL HIGH WATER
- BF1-100 LIMIT OF BANK
- WF1-100 VEGETATED WETLAND BOUNDARY

No.	Revision	Date	Appvd.
4	Update Site Demo	May 2009	
3	Wetlands & General Notes	July 2007	
2	Easement & Property	OCT 2006	
1	DRAINAGE UPDATE	MAY 2006	

Designed by | Drawn by | Checked by
CAD checked by | Approved by
Scale 1"=50' | Date February 1, 2006

Project Title
Assembly Square

Somerville, Massachusetts
Issued for

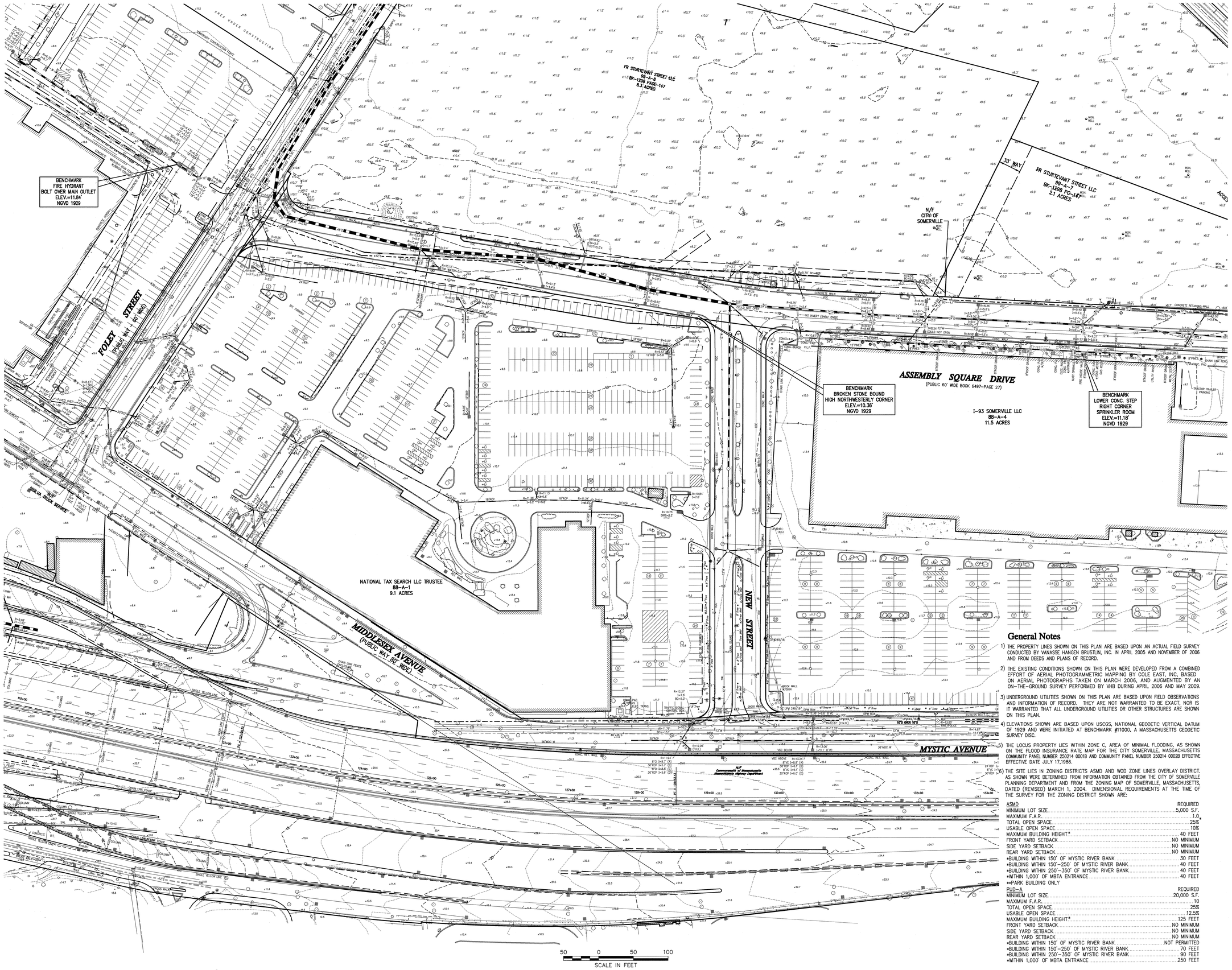
Drawing Title
Existing Conditions Plan of Land

Drawing Number
Sv-3
3 5

08518

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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



VHB

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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

N

MASS GRID

Legend

- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- MANHOLE
- HANDHOLE
- WATER GATE
- FIRE HYDRANT
- GAS GATE
- STREET SIGN
- LIGHT POLE
- UTILITY POLE
- GUY WIRE
- GUY POLE
- FFE=32.18' FIRST FLOOR ELEVATION
- MONITORING WELL
- EOP EDGE OF PAVEMENT
- CC CONCRETE CURB
- VGC VERTICAL GRANITE CURB
- SGE SLOPED GRANITE EDGE
- BB BITUMINOUS BERM
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- SEWER LINE
- OHW OVERHEAD WIRE
- E UNDERGROUND ELECTRIC
- T TELEPHONE LINE
- G GAS LINE
- W WATER LINE
- STONEWALL
- TREELINE
- 100/BZ 100-FT BUFFER ZONE
- 100/RA 100-FT RIVERFRONT AREA
- 200/RA 200-FT RIVERFRONT AREA
- AF1-100 LIMIT MEAN ANNUAL HIGH WATER
- BF1-100 LIMIT OF BANK
- WF1-100 VEGETATED WETLAND BOUNDARY

General Notes

1) THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VANASSE HANGEN BRUSTLIN, INC. IN APRIL 2005 AND NOVEMBER OF 2006 AND FROM DEEDS AND PLANS OF RECORD.

2) THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY COLE EAST, INC, BASED ON AERIAL PHOTOGRAPHS TAKEN ON MARCH 2006, AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB DURING APRIL 2006 AND MAY 2009.

3) 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.

4) ELEVATIONS SHOWN ARE BASED UPON USCGS, NATIONAL GEODETIC VERTICAL DATUM OF 1929 AND WERE INITIATED AT BENCHMARK #11000, A MASSACHUSETTS GEODETIC SURVEY DISC.

5) THE LOCUS PROPERTY LIES WITHIN ZONE C, AREA OF MINIMAL FLOODING, AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR THE CITY SOMERVILLE, MASSACHUSETTS COMMUNITY PANEL NUMBER 250214 0001B AND COMMUNITY PANEL NUMBER 250214 0002B EFFECTIVE EFFECTIVE DATE JULY 17,1986.

6) THE SITE LIES IN ZONING DISTRICTS ASMD AND WOD ZONE LINES OVERLAY DISTRICT. AS SHOWN WERE DETERMINED FROM INFORMATION OBTAINED FROM THE CITY OF SOMERVILLE PLANNING DEPARTMENT AND FROM THE ZONING MAP OF SOMERVILLE, MASSACHUSETTS, DATED (REVISED) MARCH 1, 2004. DIMENSIONAL REQUIREMENTS AT THE TIME OF THE SURVEY FOR THE ZONING DISTRICT SHOWN ARE:

ASMD	REQUIRED
MINIMUM LOT SIZE	5,000 S.F.
MAXIMUM F.A.R.	1.0
TOTAL OPEN SPACE	25%
USABLE OPEN SPACE	10%
MAXIMUM BUILDING HEIGHT*	40 FEET
FRONT YARD SETBACK	NO MINIMUM
SIDE YARD SETBACK	NO MINIMUM
REAR YARD SETBACK	NO MINIMUM
*BUILDING WITHIN 150' OF MYSTIC RIVER BANK	30 FEET
*BUILDING WITHIN 150'-250' OF MYSTIC RIVER BANK	40 FEET
*BUILDING WITHIN 250'-350' OF MYSTIC RIVER BANK	40 FEET
*WITHIN 1,000' OF MBTA ENTRANCE	40 FEET
**PARK BUILDING ONLY	

PUD-A	REQUIRED
MINIMUM LOT SIZE	20,000 S.F.
MAXIMUM F.A.R.	10
TOTAL OPEN SPACE	25%
USABLE OPEN SPACE	12.5%
MAXIMUM BUILDING HEIGHT*	125 FEET
FRONT YARD SETBACK	NO MINIMUM
SIDE YARD SETBACK	NO MINIMUM
REAR YARD SETBACK	NO MINIMUM
*BUILDING WITHIN 150' OF MYSTIC RIVER BANK	NOT PERMITTED
*BUILDING WITHIN 150'-250' OF MYSTIC RIVER BANK	70 FEET
*BUILDING WITHIN 250'-350' OF MYSTIC RIVER BANK	90 FEET
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No.	Revision	Date	Appvd.
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Designed by | Drawn by | Checked by

CAD checked by | Approved by

Scale 1"=50' | Date February 1, 2006

Project Title

Assembly Square

Somerville, Massachusetts

Issued for

Drawing Title

Existing Conditions Plan of Land

COMMONWEALTH OF MASSACHUSETTS
RUSSELL J. BOUSQUET NO. 35389
REGISTERED LAND SURVEYOR
7/27/09

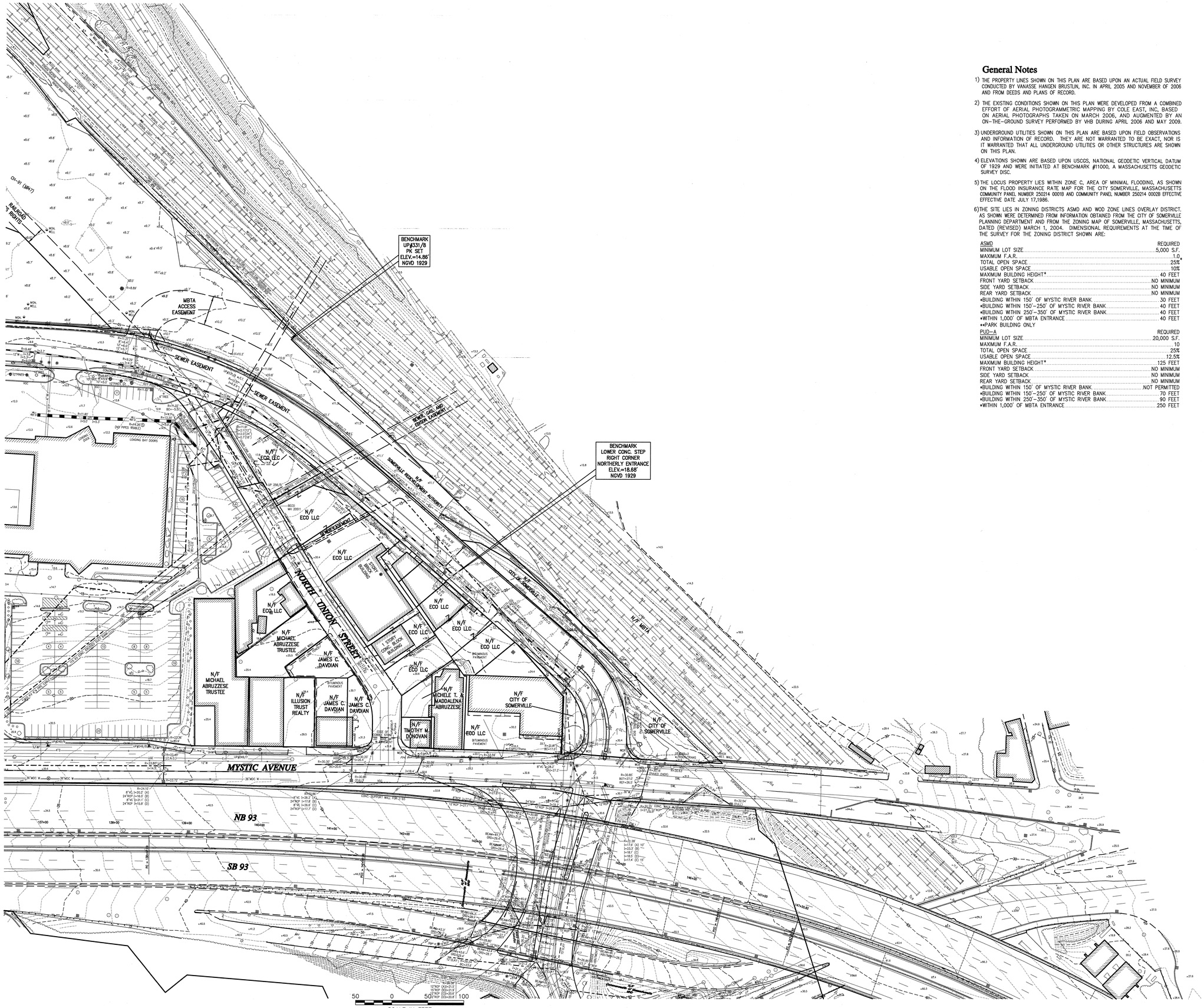
Drawing Number

Sv-4

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08518

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Legend

- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- MANHOLE
- HANDHOLE
- WATER GATE
- FIRE HYDRANT
- GAS GATE
- STREET SIGN
- LIGHT POLE
- UTILITY POLE
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- GUY POLE
- FFE=32.15 FIRST FLOOR ELEVATION
- MONITORING WELL
- EOP EDGE OF PAVEMENT
- CC CONCRETE CURB
- VGC VERTICAL GRANITE CURB
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- BF1-100 LIMIT OF BANK
- WF1-100 VEGETATED WETLAND BOUNDARY

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

N

MASS GRID

No.	Revision	Date	Appvd.
4	Update Site Demo	May 2009	
3	Wetlands & General Notes	July 2007	
2	Easement & Property	OCT 2006	
1	DRAINAGE UPDATE	MAY 2006	

Designed by		Drawn by	Checked by
CAD checked by		Approved by	
Scale	1"=50'	Date	February 1, 2006

Project Title

Assembly Square

Somerville, Massachusetts

Issued for

Drawing Title

Existing Conditions Plan of Land

COMMONWEALTH OF MASSACHUSETTS
RUSSELL BOUSQUET
NO. 35309
REGISTERED PROFESSIONAL ENGINEER
1/27/09

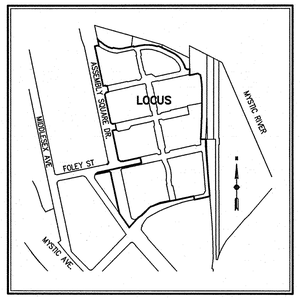
Drawing Number

Sv-5

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08518

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Locus Map
(NOT TO SCALE)



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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- TELEPHONE MANHOLE
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- STREET SIGN
- LIGHT POLE
- UTILITY POLE
- GUY POLE
- GUY WIRE
- MONITORING WELL
- FLOOD LIGHT
- WELL
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- F.F.E.=45.27' FINISHED FLOOR ELEVATION
- EOP — EDGE OF PAVEMENT
- CC — CONCRETE CURB
- VGC — VERTICAL GRANITE CURB
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- 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 March 9, 2012	

Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

Utility As-Built

Drawing Title

Key Sheet

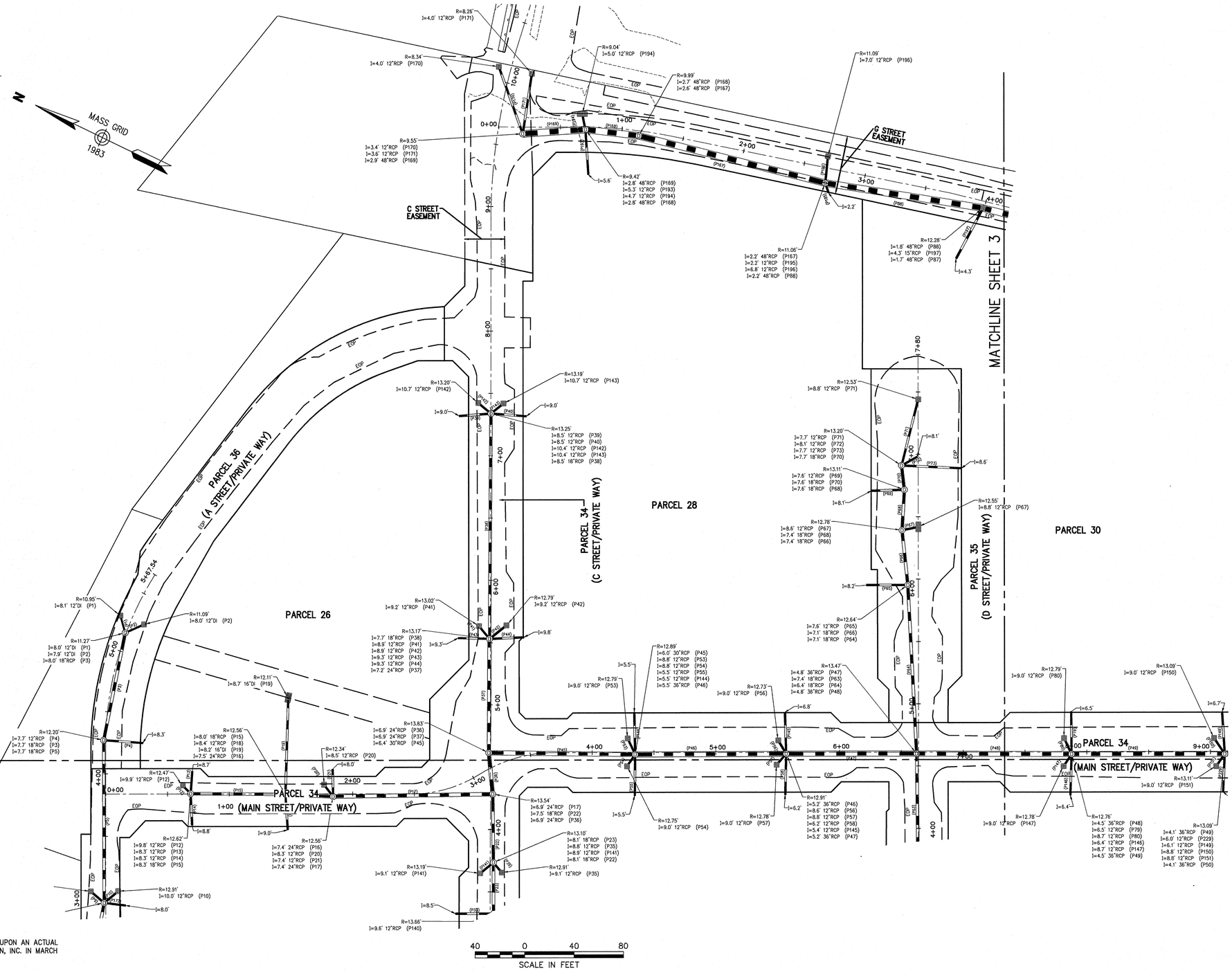
COMMONWEALTH OF MASSACHUSETTS
SELBY TURNER III
No. 49230
REGISTERED LAND SURVEYOR
3/9/2012

Drawing Number
Sv-1

Sheet 1 of 13

Project Number
11763.00

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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.
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4. HORIZONTAL DATUM IS BASED ON MASS. GRID SYSTEM, NAD 1983. ELEVATIONS SHOWN ON THIS PLAN REFER TO NAVD OF 1988.

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.

Designed by	Drawn by	Checked by	
CAD checked by		Approved by	
Scale 1"=40'		Date March 9, 2012	

Project Title

Assembly Row
Assembly Square
PUD
Somerville, Massachusetts

Issued for

Utility As-Built

Drawing Title

Drain Asbuilt

COMMONWEALTH OF MASSACHUSETTS
SELBY L. TURNER III.
No. 42280
PROFESSIONAL LAND SURVEYOR

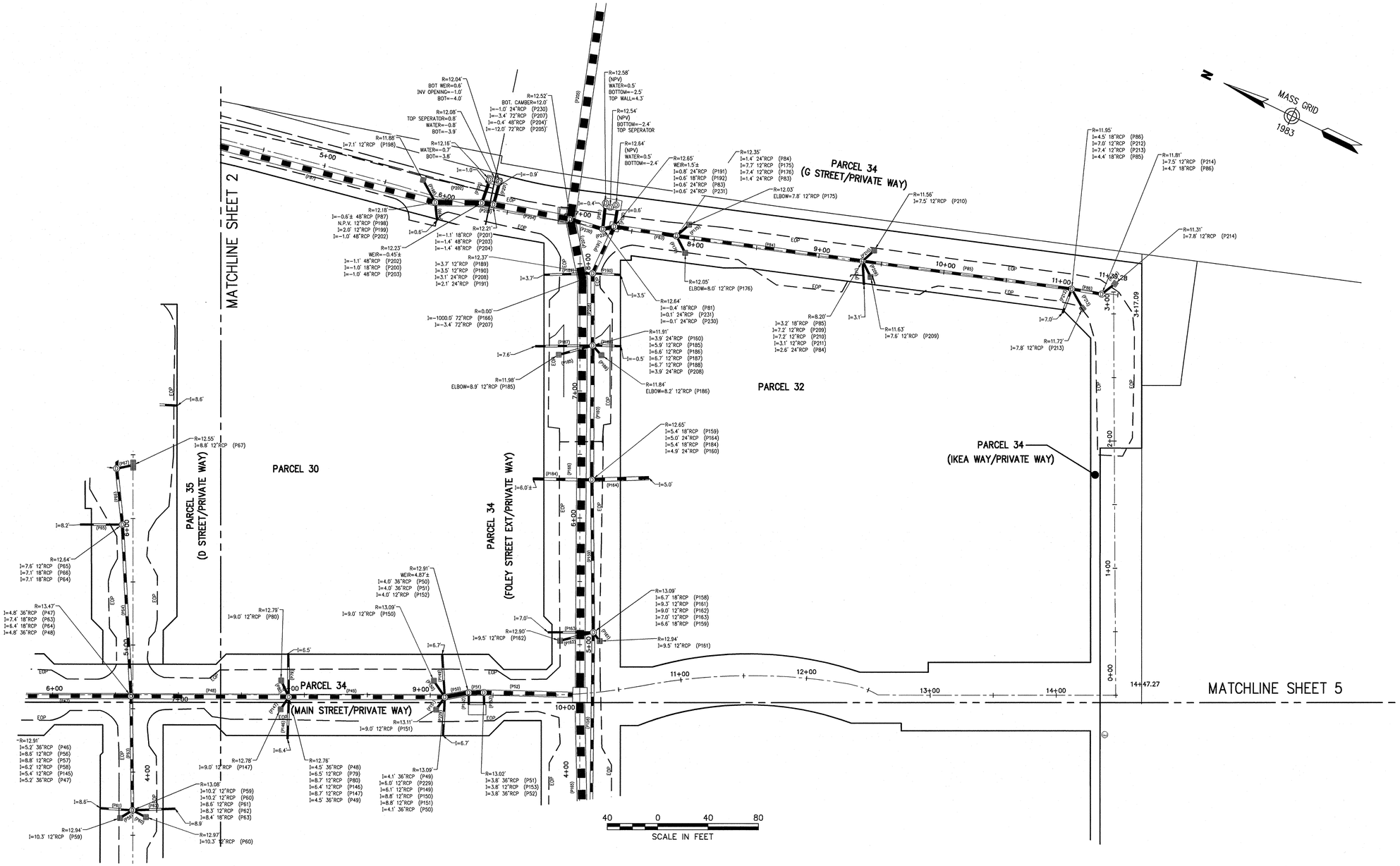
3/9/2012

Drawing Number
Sv-2

Sheet 2 of 13

Project Number
11763.00

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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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No.	Revision	Date	Appvd.

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Scale 1"=40' | Date March 9, 2012

Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

Utility As-Built

Drawing Title

Drain Asbuilt

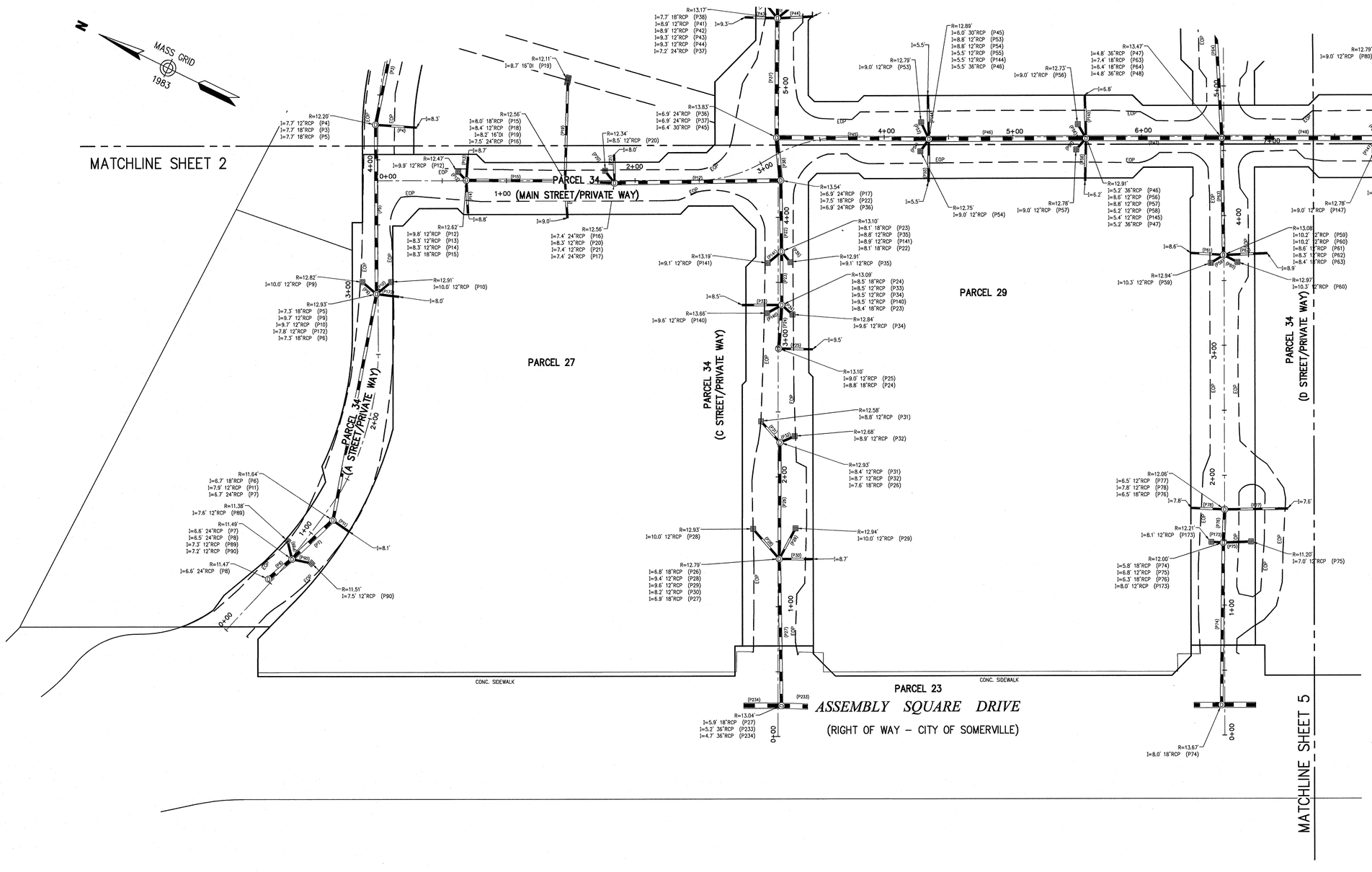
COMMONWEALTH OF MASSACHUSETTS
SELBY TURNER III
No. 49230
PROFESSIONAL LAND SURVEYOR
3/9/2012

Drawing Number
Sv-3

Sheet 3 of 13

Project Number
11763.00

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617 924 1770 • FAX 617 924 2286

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No.	Revision	Date	Appvd.

Designed by | Drawn by | Checked by
CAD checked by | Approved by
Scale 1"=40' | Date March 9, 2012

Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

Utility As-Built

Drawing Title

Drain Asbuilt

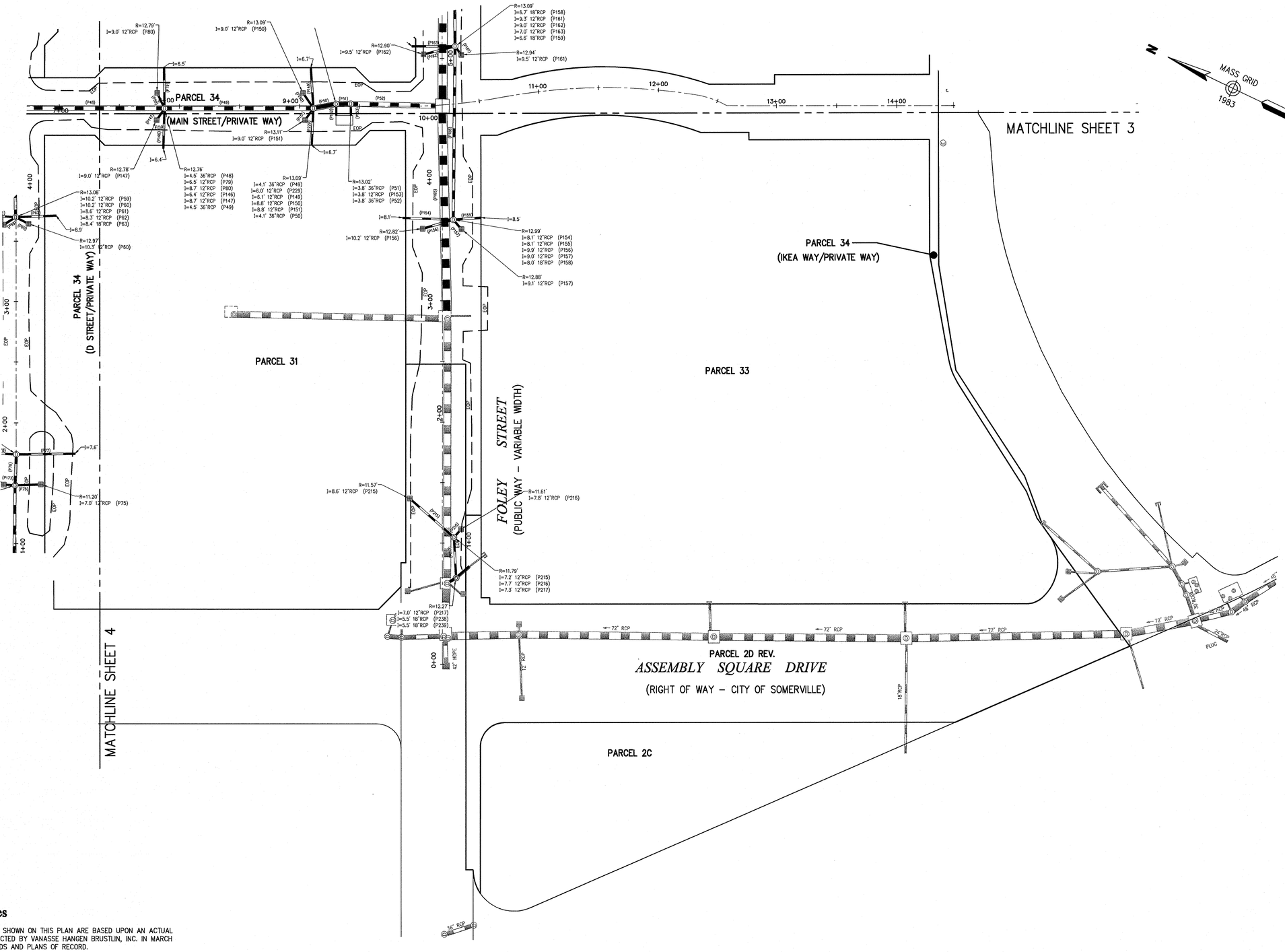
COMMONWEALTH OF MASSACHUSETTS
SELBY L. TURNER III
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REGISTERED PROFESSIONAL LAND SURVEYOR

Drawing Number
Sv-4

Sheet 4 of 13

Project Number
11763.00

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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
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- TELEPHONE MANHOLE
- MANHOLE
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No.	Revision	Date	Appvd.

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Scale 1"=40' | Date March 9, 2012

Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

Utility As-Built

Drawing Title

Drain Asbuilt

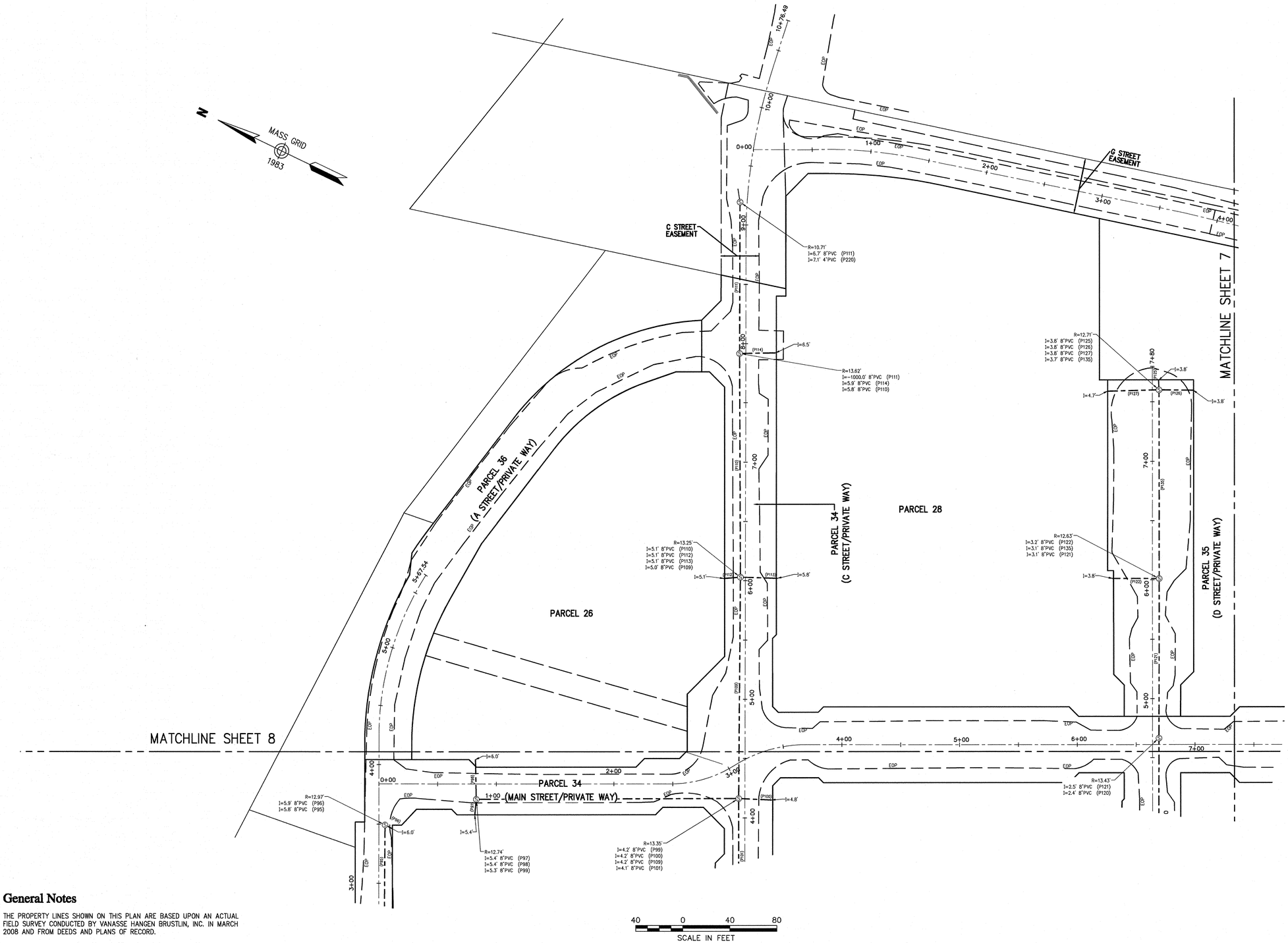
COMMONWEALTH OF MASSACHUSETTS
SELBY L. TURNER III
No. 49220
PROFESSIONAL LAND SURVEYOR

Drawing Number
Sv-5

Sheet 5 of 13

Project Number
11763.00

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Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

Utility As-Built

Drawing Title

Sewer Asbuilt

COMMONWEALTH OF MASSACHUSETTS
SELBY L. TURNER III
No. 46990
REGISTERED LAND SURVEYOR

Drawing Number

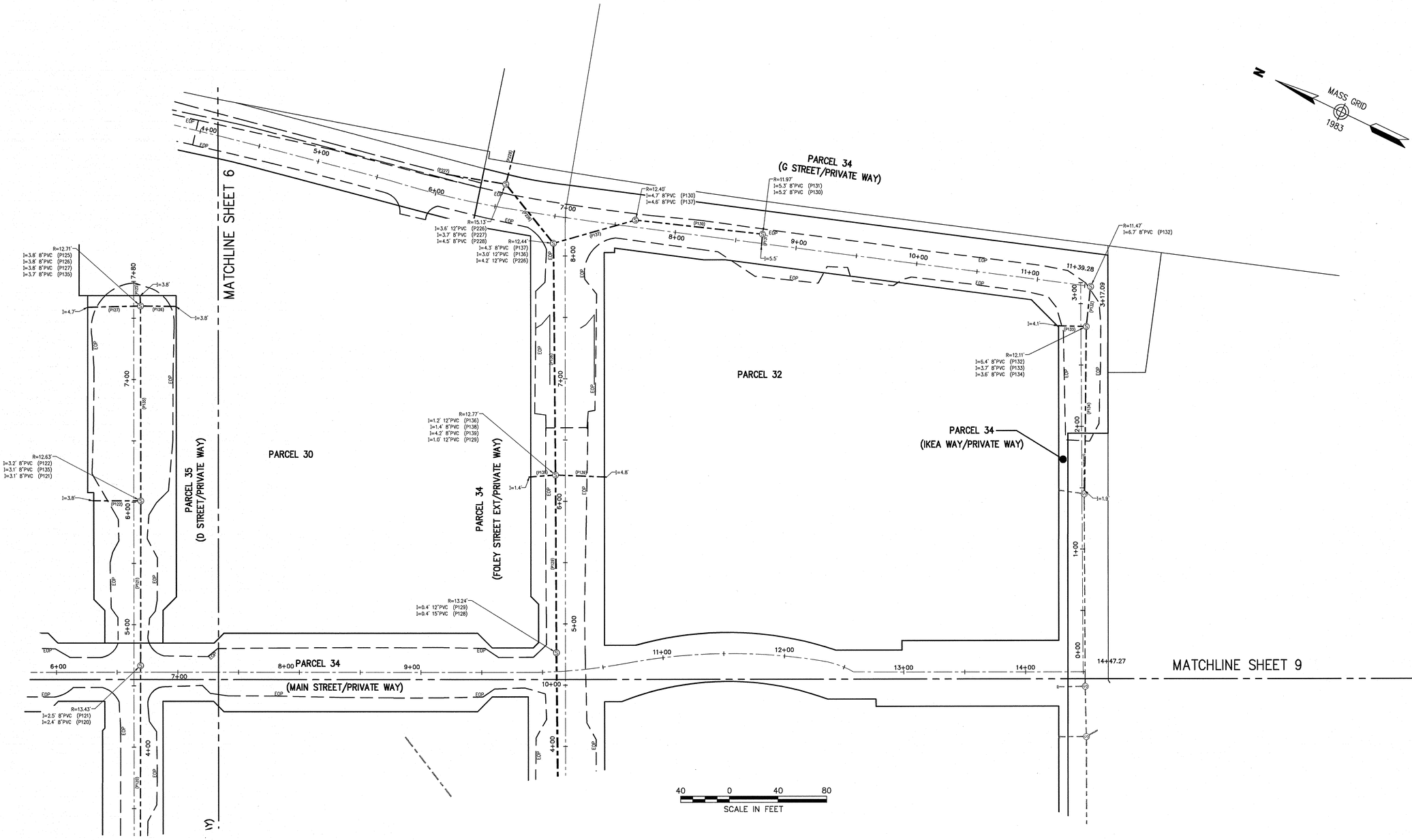
Sv-6

Sheet 6 of 13

Project Number

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Transportation
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Project Title

Assembly Row
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PUD

Somerville, Massachusetts

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Utility As-Built

Drawing Title

Sewer Asbuilt

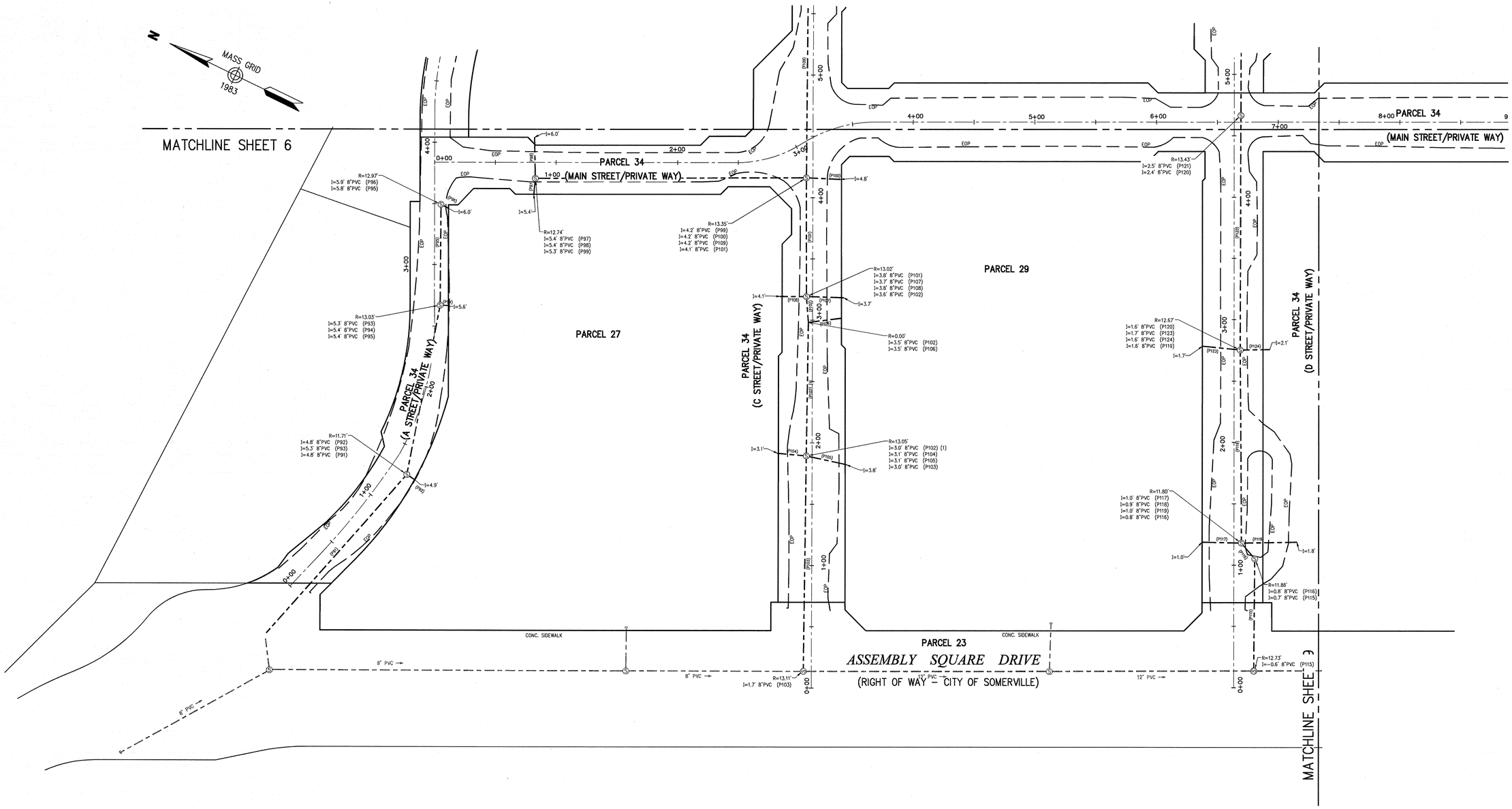
COMMONWEALTH OF MASSACHUSETTS
SELBY A. TURNER III
No. 49230
REGISTERED LAND SURVEYOR

Drawing Number
Sv-7

Sheet 7 of 13

Project Number
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SCALE IN FEET

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Legend

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PUD
Somerville, Massachusetts

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Drawing Title
Sewer Asbuilt

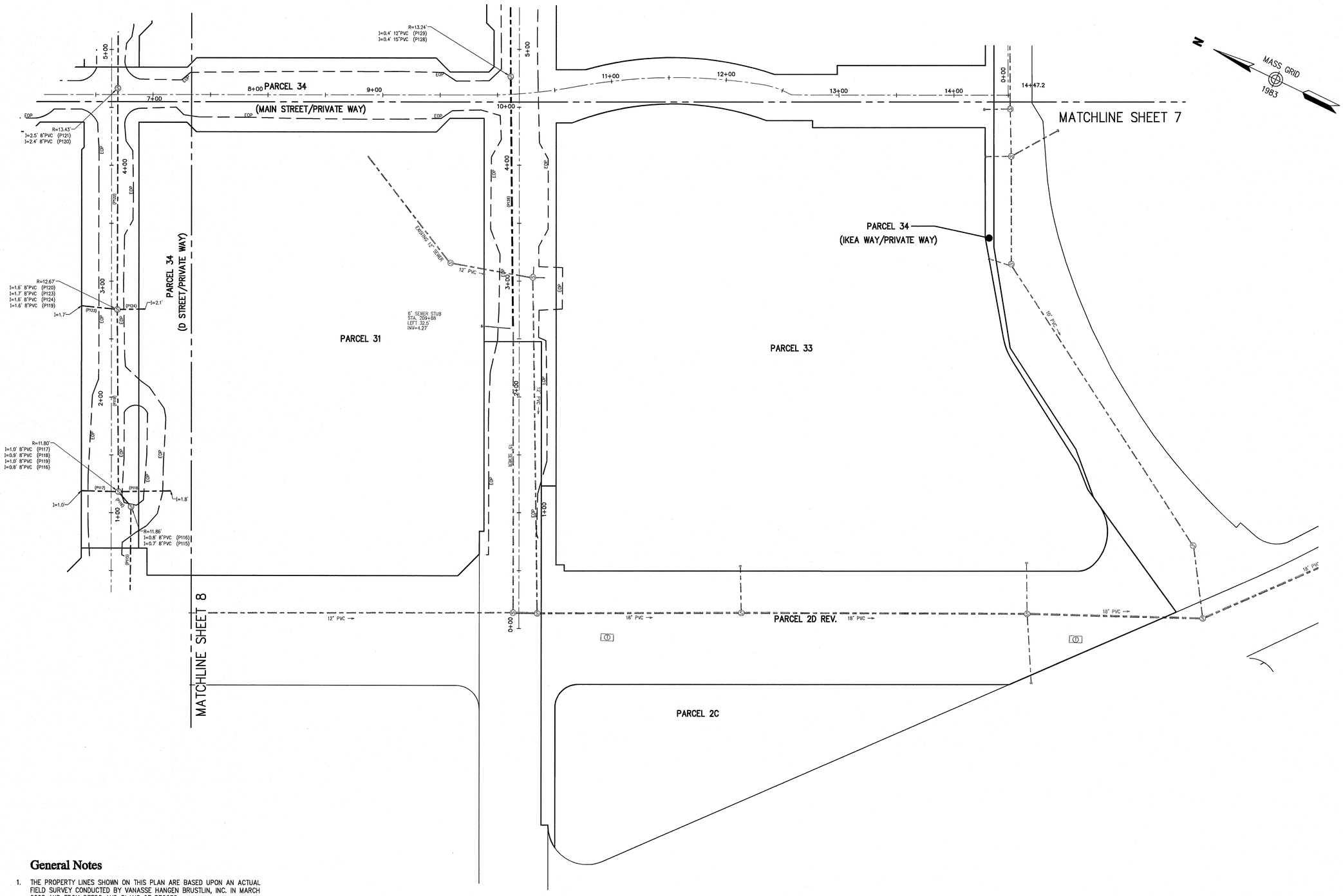
COMMONWEALTH OF MASSACHUSETTS
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REGISTERED PROFESSIONAL LAND SURVEYOR
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Drawing Number
Sv-8

Sheet 8 of 13

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MASS GRID
1983

Legend

- DRAIN MANHOLE
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Project Title

Assembly Row
Assembly Square
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Issued for

Utility As-Built

Drawing Title

Sewer Asbuilt

COMMONWEALTH OF MASSACHUSETTS
SELBY L. TURNER III
No. 46930
REGISTERED LAND SURVEYOR

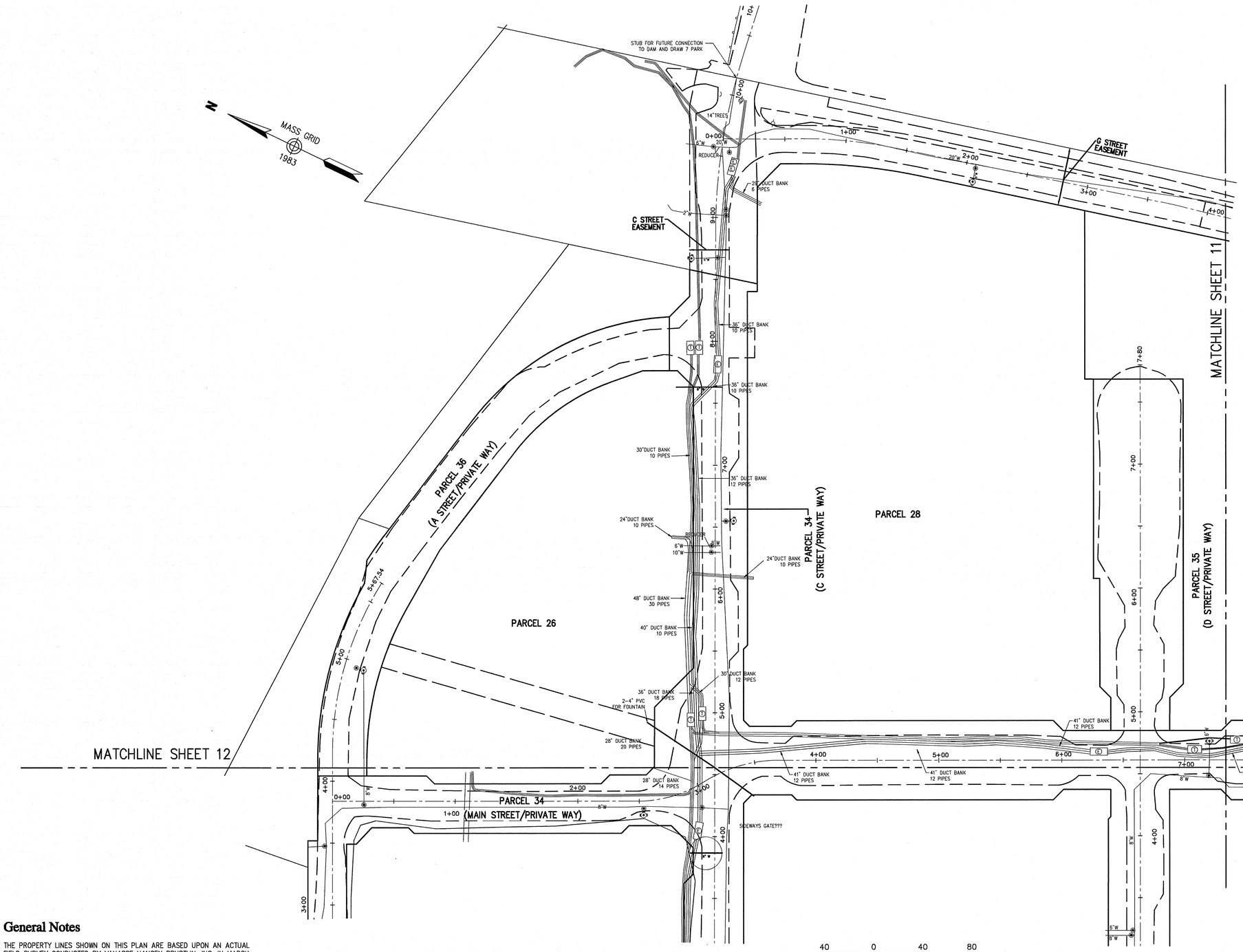
3/9/2012

Drawing Number
Sv-9

Sheet 9 of 13

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Utility Asbuilt

COMMONWEALTH OF MASSACHUSETTS
SELBY L TURNER III
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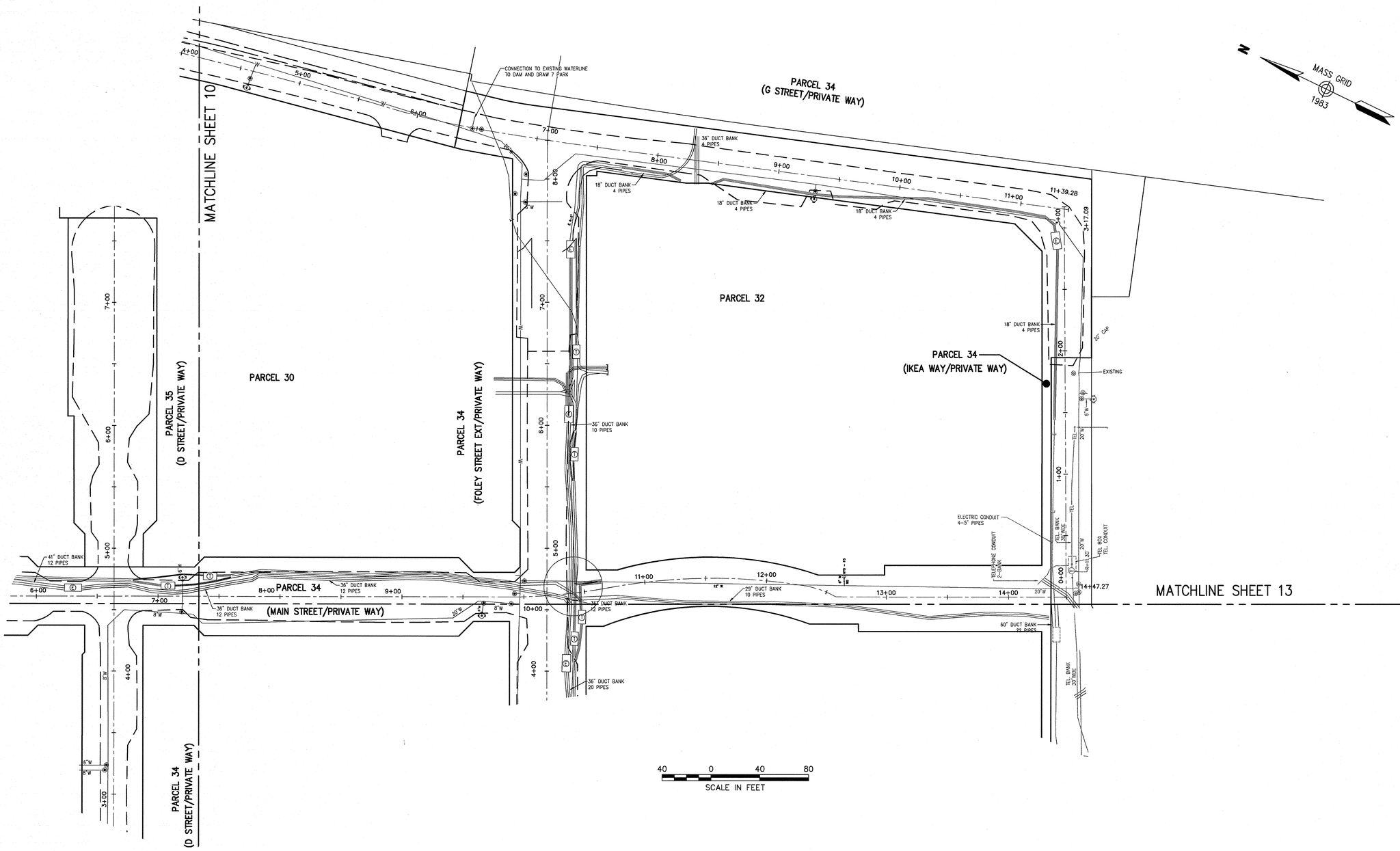
Drawing Number

Sv-10

Sheet 10 of 13

Project Number 11763.00

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Utility As-Built

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COMMONWEALTH OF MASSACHUSETTS
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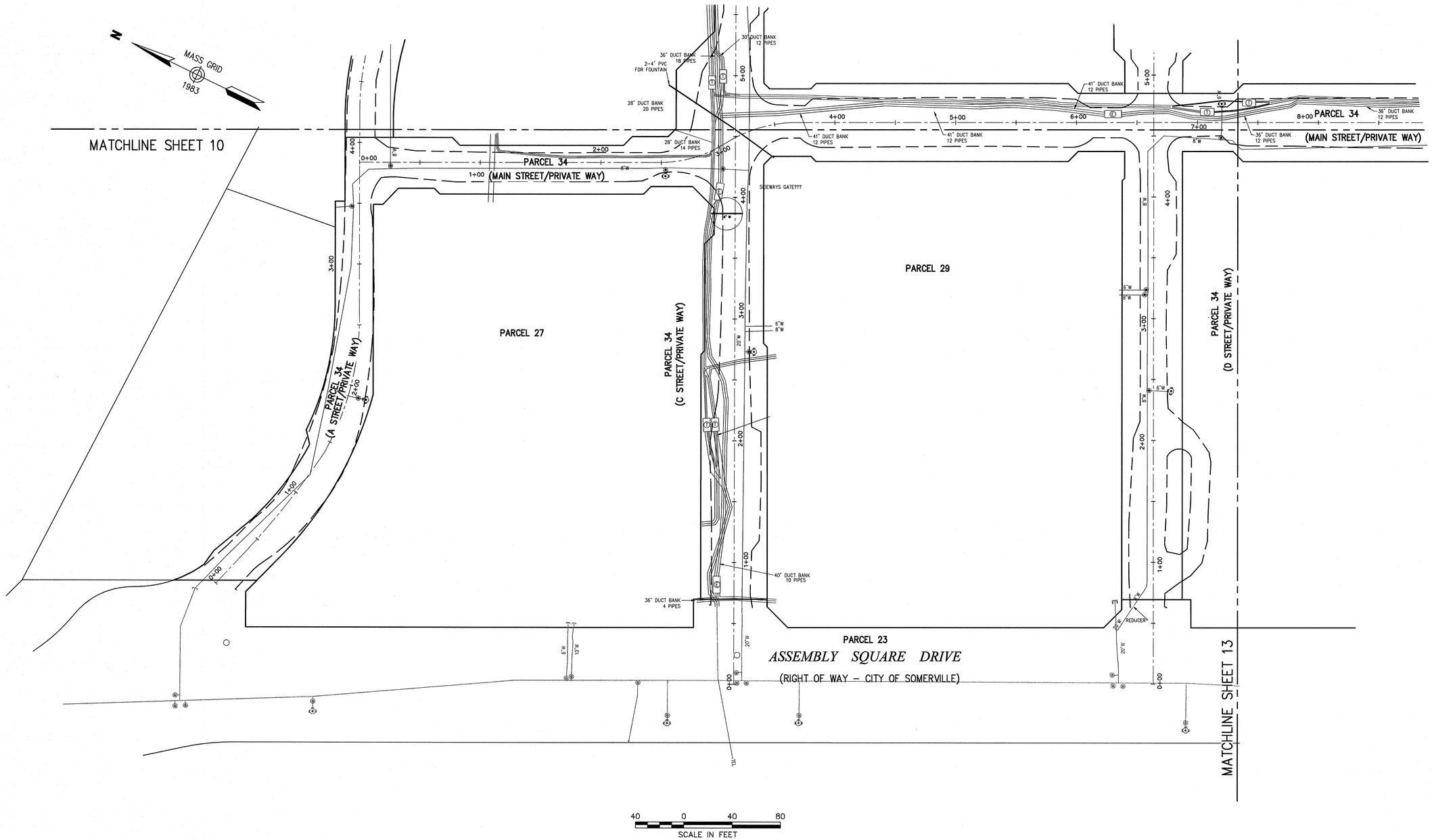
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Sv-11

Sheet 11 of 13

Project Number
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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
- 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 March 9, 2012

Project Title

Assembly Row
Assembly Square
PUD

Somerville, Massachusetts

Issued for

Utility As-Built

Drawing Title

Utility Asbuilt

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

Drawing Number

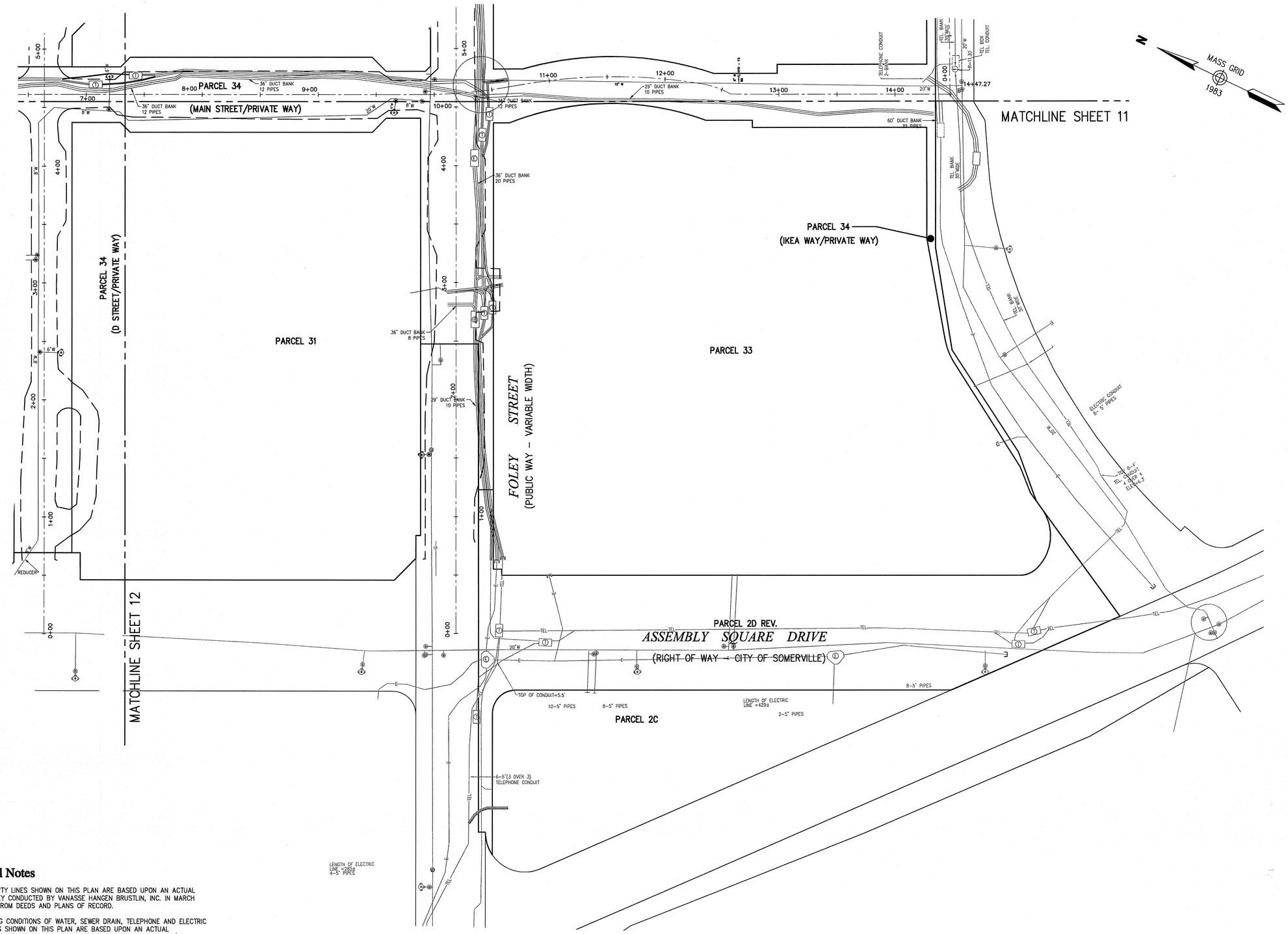
Sv-12

Sheet 12 of 13

Project Number

11763.00

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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 THRU DECEMBER OF 2011.
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 NAVD OF 1988.

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9/2017

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Sv-13

Sheet 13 of 13

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