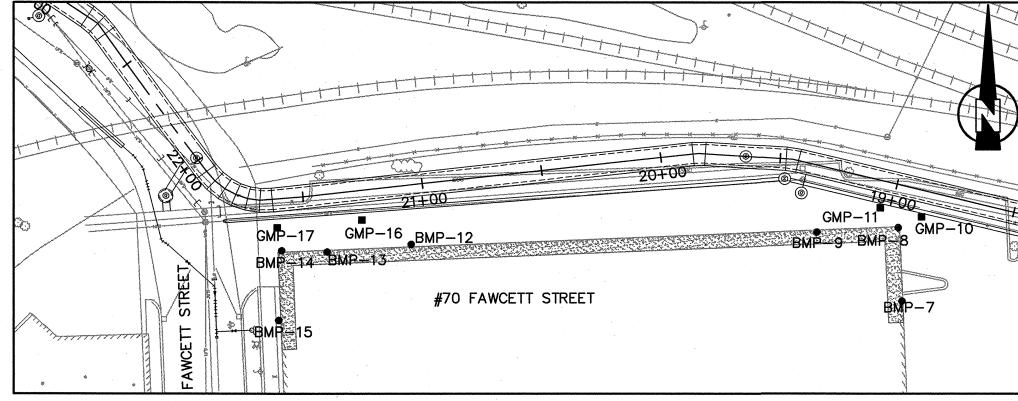


#211 ALEWIFE BROOK PARKWAY (FRONTAGE ON WHEELER STREET)

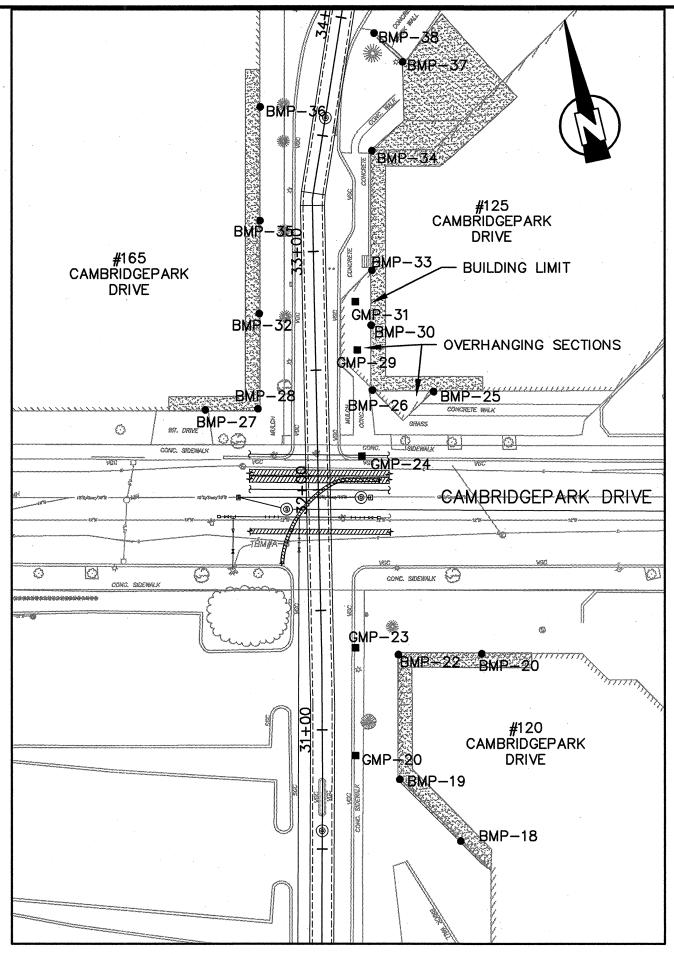
PLAN
SCALE: 1"=40"



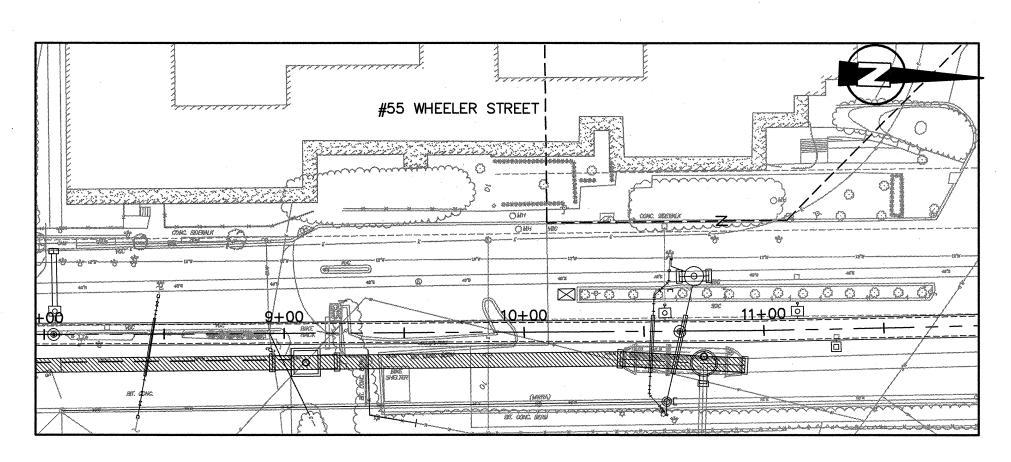
70 FAWCETT STREET

PLAN

SCALE: 1"=40"



#165, #125 & #120 CAMBRIDGEPARK DRIVE
PLAN
SCALE: 1"=40"



#55 WHEELER STREET
PARKING AREA
PLAN
SCALE: 1"=40"

<u>LEGEND</u>

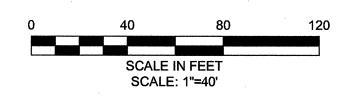
- BUILDING DEFORMATION MONITORING POINT (BMP)

- GROUND SURFACE DEFORMATION MONITORING POINT (GMP)

- PRE-CONSTRUCTION EXTERIOR SURFACE AND VIBRATION MONITORING (BY CONTRACTOR'S INDEPENDENT CONSULTANT)

NOTE

- 1. EXCAVATION SUPPORT: INSTALLATION OF THE TEMPORARY EXCAVATION SUPPORT SYSTEM SHALL BE BY DRILLED OR HYDRAULICALLY—PUSHED METHODS. NO VIBRATORY OR IMPACT HAMMERS SHALL BE USED TO INSTALL THE EXCAVATION SUPPORT SYSTEM ON THIS PROJECT. MONITORING POINTS ALONG THE EXCAVATION SUPPORT SYSTEM SHALL BE AT 15 FEET ON CENTER. THRESHOLD HORIZONTAL MOVEMENT SHALL BE 0.5 INCH AND LIMITING HORIZONTAL MOVEMENTS SHALL BE 1 INCH WHERE BUILDINGS ARE PRESENT WITHIN 25 FEET OF THE EXCAVATION. THRESHOLD HORIZONTAL MOVEMENT SHALL BE 1 INCH AND LIMITING MOVEMENT SHALL BE 2 INCHES WHERE NO BUILDINGS ARE PRESENT WITHIN 25 FEET OF THE THE EXCAVATION.
- 2. <u>VIBRATIONS:</u> THRESHOLD RESPONSE VALUE SHALL BE 0.8 IPS (INCHES PER SECOND) AND LIMITING RESPONSE VALUE SHALL BE 1 IPS AS MEASURED AT STREET LEVEL FOR ALL WOOD, STEEL, CONCRETE AND BRICK BUILDINGS SURROUNDING THE EXCAVATION. THRESHOLD AND LIMITING RESPONSE VALUES FOR HISTORICAL STONE STRUCTURES SHALL BE 0.3 IPS AND 0.5 IPS RESPECTIVELY.
- 3. <u>BUILDING DMPS:</u> THRESHOLD ANGULAR DISTORTION (BUILDING ROTATION) SHALL BE 1/1000 AND LIMITING ANGULAR DISTORTION SHALL BE 1/750 FOR WOOD, BRICK, STEEL AND CONCRETE BUILDINGS. THRESHOLD AND LIMITING RESPONSE VALUES FOR HISTORIC STONE STRUCTURES SHALL BE 1/1200 AND 1/900 RESPECTIVELY. WHERE THE ANGULAR DISTORTION IS DEFINED AS THE RATIO OF THE DIFFERENTIAL ELEVATION BETWEEN ANY TWO BUILDING POINTS OVER THE HORIZONTAL DISTANCE BETWEEN THOSE POINTS.
- 4. <u>GROUND SURFACE DMPS:</u> THRESHOLD SETTLEMENT VALUE SHALL BE 0.5 INCHES AND LIMITING SETTLEMENT VALUE SHALL BE 1 INCH FOR SIDEWALKS, PAVED SURFACES, AND GROUND SURFACES ADJACENT TO THE EXCAVATION.
- 5. BORING INFORMATION IS APPENDED IN THE CONTRACT SPECIFICATIONS.
- 6. BUILDING DEFORMATION MONITORING POINTS, GROUND SURFACE DEFORMATION MONITORING POINTS AND CRACK GAUGES SHALL BE INSTALLED BY THE CONTRACTOR AND MONITORED BY THE CONTRACTOR'S INDEPENDENT GEOTECHNICAL CONSULTANT.
- 7. ANY DAMAGE TO PUBLIC AND PRIVATE PROPERTIES, AS A DIRECT RESULT OF THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.







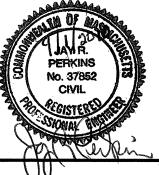




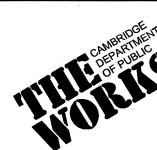
Salem, MA 01970

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	Scale	AS NOTED				<i>'</i>
	Date SEPTEMBER 1, 2010				·	1
	Job No.	1998400.12				
	Designed by	JRP				
	Drawn by	NJE				17
	Checked by	FGA	No.	Description	Date	1
~	Approved by	vws		REVISIONS		1



	CITY OF CAMBRIDGE, MASSACHUSETTS	Sheet No.
	CAMBRIDGEPARK DRIVE AREA DRAINAGE IMPROVEMENTS	
	CONTRACT NO. 12	File No.
, and a second	GEOTECHNICAL INSTRUMENTATION	

AND MONITORING PLAN I