

10 August 2017
Project 770638301

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Dilan Roe, PE
Program Manager
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**Subject: Revised Data Gaps Investigation Work Plan
M&M Property LLC
2800 Broadway
Oakland, California
Case No. RO0003201
Langan Project No. 770638301**

Dear Ms. Roe:

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document submitted on my behalf to ACDEH's FTP server and the State Water Resources Control Board's GeoTracker website.

Sincerely yours,


Michael Murphy
M&M Property LLC.

REVISED
DATA GAPS INVESTIGATION WORK PLAN
2800 Broadway
Oakland, California

Prepared For:

M&M Property LLC
2800 Broadway
Oakland, California

Prepared By:

Langan Engineering and Environmental Services, Inc.
1 Almaden Boulevard, Suite 590
San Jose, California 94113



Mukta Patil

Mukta Patil, PE
Project Engineer

Peter J. Cusack

Peter J. Cusack
Senior Associate/VP

10 August 2017
770638301

LANGAN

10 August 2017

Ms. Dilan Roe, PE
Program Manager
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

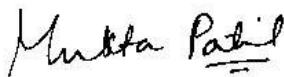
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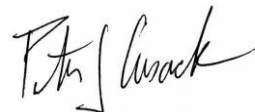
On behalf of M&M Property LLC, we are pleased to present this *Revised Data Gaps Investigation Work Plan* (work plan) for the property located at 2800 Broadway, Oakland, California. The intent of the work plan is to address potential data gaps in our conceptual site model to evaluate remedial objectives to advance site cleanup. A work plan for the above referenced site was submitted to the Alameda County Department of Environmental Health (ACDEH) on 17 March 2017. Upon reviewing the work plan, ACDEH provided comments in their letter dated 8 June 2017 and via telephone call on 3 August 2017. The revised work plan incorporates the comments and suggestions provided by the ACDEH.

If you have any questions or concerns, please contact either of the undersigned at (408) 283-3600.

Sincerely yours,
Langan Engineering and Environmental Services, Inc.



Mukta Patil, PE
Project Engineer



Peter Cusack
Senior Associate/VP

cc: Michael Murphy, M&M Property LLC

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REVISED DATA GAPS INVESTIGATION WORK PLAN
2800 Broadway
Oakland, California

1.0 INTRODUCTION

This Revised Data Gaps Investigation Work Plan (work plan) has been prepared by Langan Engineering and Environmental Services, Inc (Langan) for M&M Property LLC. The revised work plan proposes investigation activities to address potential data gaps and to prepare a Site Conceptual Model (SCM) for the property located at 2800 Broadway in Oakland, California (site, Figure 1). A work plan was submitted to the Alameda County Department of Environmental Health (ACDEH) on 17 March 2017. The ACDEH commented on the work plan and required modifications and submittal of a revised work plan in a letter dated 8 June 2017. A draft SCM in a tabular format was submitted to the ACDEH on 6 July 2017. Upon review of the draft SCM, the ACDEH requested additional revisions during a telephone call on 3 August 2017. This revised work plan incorporates the changes required by the ACDEH.

The data gaps were identified during a review of previously prepared historical documents for the site and nearby properties. Based on our review, we propose performing soil, soil gas, and groundwater subsurface investigation activities which will provide additional information on the lateral and vertical extent of volatile organic compounds (VOCs), primarily trichloroethene (TCE) and its daughter products, and total petroleum hydrocarbons and which will assist in our current understanding of potential source(s).

This work plan presents the site description and background (Section 2.0), the current site conceptual model (Section 3.0); a data gaps assessment (Section 4.0); a proposed investigation to close data gaps (Section 5.0); data evaluation and reporting (Section 6.0); and a schedule for the proposed work (Section 7.0).

2.0 SITE DESCRIPTION AND BACKGROUND

The site is located to the northeast of the intersection between Broadway and 28th Street in Oakland, in an area known as "Auto Row", characterized primarily by commercial and high density residential buildings. The site area is approximately 13,200 square feet and currently contains a one-story warehouse building with a mezzanine which was built in 1916 (Figure 2). According to the Alameda County Assessor's Office, the property is identified as Assessor's Parcel Number (APN) 09-685-68. The building is used for storing vehicles for Premier Hyundai

of Oakland and Volkswagen of Oakland, both automobile dealerships. The surface topography across the site and surrounding area generally slopes toward south. The site is bound by Broadway to the west, a commercial building under construction to the north (2820 Broadway, formerly a Hyundai dealership), a smog station (Broadway Smog Station, 288 28th Street) to the east and 28th Street to the south. To the south across from 28th Street is the Broadway Volkswagen Dealership building (2740 Broadway). The surrounding properties and uses are indicated on Figure 2.

Current conceptual site development plans propose mixed-use development consisting of at grade parking, street level commercial space (showroom), and upper floor residential units. Three options are currently being considered. Option 1 and Option 2 consist of an elevator in the central portion of the site and Option 3 consists of an elevator in the southeastern corner of the site. Conceptual site development plans are included in Appendix B.

3.0 SITE CONCEPTUAL MODEL

A Site Conceptual Model (SCM) is one of the primary planning tools that can be used to support the decision making process managing potential exposures to contamination. The SCM organizes available information about a site in a clear and transparent structure and facilitates the identification of data and information gaps. As part of the SCM, the site geology and hydrogeology, the site history, historical site investigations and potential source areas are presented in the following sections. A detailed SCM in a tabular format is included in Table 1.

3.1 Site Geology and Hydrogeology

The subsurface has been explored to a depth up to 28 feet bgs. The soils at these properties reportedly consist of silt, silty sand, silty clay, sandy clay and clayey sand, with clays ranging from soft to very stiff. The site is located within the Coast Ranges geomorphic province, which is characterized by a series of parallel, northwesterly trending, folded and faulted mountain chains and valleys. In central California, these ranges are separated by a geologic depression that formed mainly by Franciscan Formation rock series, consisting of Jurassic Franciscan melanges. The East Bay ranges forms the eastern boundary of the Bay and consist of Late Mesozoic shelf and slope sedimentary rocks. Situated between the East Bay ranges and San Francisco Bay is the East Bay Plain. This plain measures approximately 25 miles long and 2 to 7 miles wide. Prior to urban development, the plain consisted of tidal flats, estuaries, and alluvial plains.

Historical subsurface investigation reports for the properties adjacent to the site characterized the geology at the site as being predominantly clayey with interbedded sand layers of one to two feet thickness. A shallow sand layer was documented at 11 to 17 feet bgs that increases in depth from east to west. The groundwater within this shallow sand layer was reported to be perched because clay sediment observed during advancement of soil borings (the Volkswagen dealership property at 2740 Broadway) located above and below the sand layer was dry. The soil below the sand layer reportedly continues with lower permeability clays until a depth of approximately 22 to 23 feet bgs. At this depth, the soil was described as sandy clay with a semi-confined groundwater aquifer.

The groundwater flow direction in the site vicinity varies, with data from the site to the south (the Volkswagen dealership property at 2470 Broadway), indicating a northern and western flow direction, while the site to the northwest of the property indicates a southern groundwater flow direction (ATC, 2015). Glen Echo Creek is approximately 375 feet east of the site, and flows in a southeasterly direction towards Lake Merritt, which is approximately 0.5 miles southeast of the site. Water Bodies in the site vicinity are presented on Figure 3. Regional geologic and hydrogeologic features are presented on Figure 4.

Cross-sections were developed from the boring logs produced during the site subsurface investigations (by others). Observations during previous site investigations indicate that the site is blanketed by approximately two to five feet of fill, which is comprised of silt, sand, and clay mixtures. The boring logs indicate the fill is generally underlain by an uppermost fine – grained unit consisting of stiff clay to sandy clay with varying amounts of sand and gravel, to depths of 26 feet. In multiple borings, this fine-grained unit overlies a coarse-grained deposit of poorly to well-graded sand and gravelly sand generally found at depths of twelve to fifteen feet, ranging between five to thirteen feet in thickness, and apparently extending beyond the northern boundary of the site. Underlying the coarse unit, the soil consists predominantly of very stiff, wet clay and gravelly clay, to the depth of the borings. Cross-Sectional Profile A-A' is presented on Figure 5, and Cross-Sectional Profile B-B' is presented on Figure 6.

3.2 Site Usage History

According to the Phase I Environmental Site Assessment (ESA) by ATC, dated 4 September 2015, the site was vacant prior to 1902. Two residential buildings occupied the site from 1903 through 1912. The existing building was constructed approximately in 1916. Historical uses of the on-site building have included a car dealership in 1933, an auto parts and service center in 1938, used car sales from 1943 through 1945, a lighting retail store from 1950 through 1991, an

automotive upholstery service from 1996 through 2008, and storage of cars for an auto dealership from 2008 to present.

3.3 Site Investigations

In February 2015, as part of due diligence activities, AEI Consultants (AEI) performed a Phase I Environmental Site Assessment (ESA) for M&M Property Co., for the three parcels located at 2800, 2820 and 2855 Broadway, Oakland, CA. The Phase I ESA report, dated 19 February 2015, recommended that a Phase II ESA be performed based on historical light industrial and auto repair activities associated with the properties. AEI advanced 11 exploratory borings (SB1 through SB-11) on 8 April 2015 to a depth of 15 feet bgs. Three of the exploratory borings (SB-4 through SB-6) were located on the 2800 Broadway parcel (see Figure 2 for exploratory boring locations). Trichloroethene was detected in borings SB-5 and SB-6 at concentrations of 0.015 and 0.0069 milligrams per kilogram (mg/kg), respectively at depths of 12 feet bgs, which were below the San Francisco Regional Water Quality Control Board (Water Board) Tier 1 commercial/industrial environmental screening level (ESL) of 0.46 mg/kg. No other volatile organic compounds (VOCs) were detected in the soil samples analyzed from the three exploratory borings drilled at the site. No further investigation was recommended by AEI. Table 2 presents historical borings advanced within the site boundary, depth of borings, chemical analyses performed and results summary. Detailed analytical results are presented in Appendix A.

ATC performed an additional Phase I ESA dated 4 September 2015 for Premier Hyundai of Oakland for the properties located at 2800, 2820 and 2855 Broadway in Oakland, California. Based on the findings of the Phase I ESA, a Limited Phase II ESA was performed by ATC between 19 September 2015 and 6 November 2015. The Phase I ESA and Phase II ESAs were performed as part of due diligence activities for the proposed Broadway–Valdez redevelopment project. While the property at 2800 Broadway was not part of the property transaction for Broadway-Valdez redevelopment project, the data from the site was required to understand impacts on the adjoining 2820 Broadway property. The Limited Phase II ESA focused on investigating automotive uses on the three properties as well as potential impacts from the former leaking underground storage tank (UST) case at 2740 Broadway, which is located upgradient (assuming northerly gradient) and across 28th Street to the south of 2800 Broadway. ATC advanced a total of 22 exploratory borings (B-1 through B-22) on the three parcels. Eleven of the exploratory borings (B-2, B-4 through B-10, and B-12 through B-14) were located on the 2800 Broadway property (Figure 2). The exploratory borings were drilled to a maximum depth of 28 feet bgs. ATC submitted a total of 37 soil and 11 groundwater samples that were

collected from the exploratory boring drilled on the site for analytical testing. In soil sample B-2-16', total petroleum hydrocarbons (TPH) as gasoline (TPH-g) was reported at a concentration of 89 mg/kg, and TPH-as diesel (TPH-d) was detected at concentration of 94 mg/kg. These concentrations were above the established Tier I commercial/industrial ESLs. Petroleum hydrocarbons concentration below ESLs were also detected in soil samples from exploratory borings B-12-12', B-12-15', B-2-16', and B-4-14'.

TPH-g and TPH-d concentrations were detected in all 11 grab groundwater samples collected from the site. Maximum concentrations of TPH-g and TPH-d were detected in the sample collected from boring B-2, which was located at the southern border of the site, at concentrations of 880,000 microgram per liter ($\mu\text{g/L}$) and 170,000 $\mu\text{g/L}$, respectively. TPH-fuel oil (TPH-fo) was not detected in any of the grab groundwater samples, however, it should be noted that some of the detection levels were raised due to high concentrations of TPH-g and TPH-d. Benzene, toluene, ethylbenzene, and xylenes (BTEX) were also detected at significant concentrations in grab groundwater samples from borings B-2, B-4, B-5, and B-12. TCE was also detected in all the 11 samples at a concentration exceeding the established ESL of 5 $\mu\text{g/L}$. The detected TCE concentrations ranged from 17 $\mu\text{g/L}$ (in boring B-10 located in the northwestern portion of the site) to 14,000 $\mu\text{g/L}$ in borings B-1 and B-5 (both located along the southern border of the site). Figure 2 presents historical sample locations. Based on the subsurface information obtained from the historical borings advanced at the site, two cross-sections, A-A' and B-B', were developed to depict the subsurface profile. Cross section A-A' is presented as Figure 5 and cross section B-B1 is presented as Figure 6.

3.4 Potential Source Areas

Previous reports prepared for the site have suspected the sewer line, which runs from a sink located in a utility closet to the north wall of the building and runs south to its discharge point to the city sewer located beneath 28th Street, as a potential source area. Previous reports have also suspected that there may be additional off-site sources contributing to the petroleum contamination present in the site groundwater. Therefore, Langan reviewed the Water Board and the Alameda County Environmental Health (ACDEH) online databases to evaluate the potential for off-site contributions from upgradient properties. Groundwater data from the Broadway Volkswagen (VW) dealership property at 2470 Broadway and the adjoining 2820 Broadway and 2855 Broadway sites located upgradient were reviewed.

2820 Broadway

Site investigations performed as part of Phase II ESAs by AEI and ATC, soil analytical results indicated the presence of TPH-g at a maximum concentration of 188 mg/kg, TPH-d at a maximum concentration of 680 mg/kg and TPH-motor oil (TPH-mo) at a maximum concentration of 3,100 mg/kg. Low concentrations of BTEX were also detected, but the detected concentrations were below their respective ESLs. Chlorinated hydrocarbons were not detected above reporting limits in the analyzed vadose zone soil samples.

Benzene and ethylbenzene detections were reported in grab groundwater samples exceeding their respective ESLs, however TPH detections were below the ESLs. TCE concentrations ranged in concentrations of 79 to 116 µg/L.

2855 Broadway

Site investigations performed as part of Phase II ESAs by AEI and ATC soil analytical results indicated the presence of TPHg and TPHd at maximum concentrations of 12 and 290 mg/kg, and TPHmo was detected at a maximum concentration of 590 mg/kg. Ethylbenzene, total xylenes, and naphthalene were detected at low concentrations ranging from 0.0076 to 0.15 mg/kg; however, benzene was not detected above reporting limits in any of the analyzed vadose zone soil samples.

According to the historical Phase II ESA reports, TPH-g, TPH-d, and TPH-mo concentrations in groundwater at this property did not exceed applicable ESLs. Low concentrations of TCE and tetrachloroethene (PCE) were also detected in the groundwater samples beneath the property but below established Tier I commercial/industrial ESLs.

Based on the reviewed historical data and the concentrations of VOCs detected at 2820 and 2855 Broadway properties, it is unlikely that these properties are impacting the current condition of the site.

2470 Broadway

Historical data collected at the Broadway Volkswagen property, a closed LUST UST property, indicate several soil, groundwater and soil vapor investigations have been performed at the property. The initial work at the property included removal of four USTs: one 1,000-gallon UST (Tank A) used to store waste oil (formerly located near the garage near 27th Street), one 300-gallon UST (Tank B) used to store waste oil (formerly located along Broadway), one 550-gallon UST (Tank C) and one 1,500-gallon UST (Tank D) both used to store gasoline (formerly located

along 28th Street). Soil samples collected during the removal of Tank A did not detect the presence of petroleum contamination. Soil samples collected during the removal of Tank B detected TPH-g at a concentration of 640 mg/kg and total oil and grease at a concentration of 2,400 mg/kg. Soil samples collected during the removal of Tanks C and D contained TPHg and BTEX at elevated concentrations. Also, a light non-aqueous phase liquid (LNAPL) was identified during the excavation activities of the former Tanks C and D.

Six groundwater monitoring wells (MW-1 and MW-3 through MW-7) were installed to total depths of 20 and 30 feet bgs in the sidewalk along 28th Street and on the street near Tanks C and D. Groundwater monitoring well MW-2 was installed near the former waste oil UST along Broadway. Three groundwater monitoring wells, MW-4 through MW-6, were reportedly abandoned in 1994, and groundwater monitoring well MW-2 was reportedly abandoned in 1991.

Reportedly, a soil vapor and groundwater extraction system operated from February 1996 through March 1998. Soil vapor extraction wells (SV-1 through SV-3) and monitoring well MW-3 were included in the extraction system. Reportedly, a total of approximately 44,837 gallons of water was extracted, treated and discharged to the sewer system. Approximately 1,048 grams of TPHg and 180 grams of benzene were removed by the vapor extraction system. However, the operational details and treatment methods were not available in the historical reports. Case closure requests submitted to ACDEH in 1999 by QST Environmental and in 2003 by Mactec were both denied due to the concentrations of VOCs in MW-3, which had detected concentrations of VOCs at the levels detected prior to the extraction and treatment operations.

Based on no reported data, the groundwater monitoring activities were likely not performed from 1999 to 2012. In June 2012, ARCADIS performed redevelopment and sampling activities at the remaining groundwater monitoring wells (MW-1, MW-3 and MW-7) and soil vapor extraction wells (VW-1, VW-2 and VW-3). ARCADIS also installed two additional groundwater monitoring wells; MW-8 and MW-9 in July 2013. Soil samples collected during the groundwater monitoring well installation activities were analyzed for TPHg, TPHd, TPHmo, BTEX and MTBE. Analytical results of the soil samples were below their respective laboratory reporting limits. However, several VOCs were detected above ESLs in the two groundwater samples. ARCADIS prepared a work plan for additional subsurface investigation and after obtaining ACDEH approval in July 2013, ARCADIS advanced five membrane interface probes (MIP) soil borings (MIP-1 through MIP-5, Figure 2) to approximately depths of 30 to 35 feet bgs using a direct-push drill rig equipped with an electrical conductivity (EC) measurement device and MIP

sample collector. The response from the petroleum-related MIP detectors suggested the presence of petroleum compounds within a three-foot-thick sand layer, between the depths of approximately 11 to 21 feet bgs. The response from the EC/MIP detectors did not detect the presence of chlorinated VOCs at MIP-1 and MIP-2 locations, however, MIP-3 through MIP-5 response indicated the presence of low concentrations of chlorinated VOCs. However, grab groundwater samples collected from each of the MIP borings detected concentrations of TPHg, d, mo, BTEX and naphthalene above ESLs.

ARCADIS performed a soil vapor investigation in February 2014 to evaluate vapor intrusion into the 2740 Broadway building. Three soil vapor monitoring locations (VW-4 through VW-6) were installed to depths of 5.5 feet bgs and five sub-slab monitoring probes (SS-SV-1 through SS-SV-5) were installed and sampled. The results indicated absence of soil vapor concentrations above commercial ESLs.

Although significant detections of VOCs were not reported in soils beneath the property, groundwater samples collected from the years of 1991 to 1993 indicated concentrations of chlorinated VOCs, specifically TCE and dichloroethane (DCA). Three of the groundwater monitoring wells (MW-4 through MW-6) were screened within shallow sand layer (at depths of 11 or 17 feet bgs) and the deeper semi-confined aquifer (depths of 22 to 23 feet bgs), had elevated detections of TCE (530 to 2,100 µg/L). The deeper semi-confined aquifer was likely impacted by the leaking USTs. The TCE was suspected to be from an unknown off-site source. Upon receiving ACDEH approval, the groundwater monitoring wells MW-4, MW-5 and MW-6 were destroyed on 16 March 1994 to prevent vertical migration of TCE into shallow groundwater from the deeper semi-confined aquifer.

Based on the subsurface investigations and remedial activities performed over the years, ARCADIS submitted a Conceptual Site Model and Low-Threat Closure Request for the 2740 Broadway property in their report dated 5 June 2014. In a letter dated 5 May 2015, the fuel leak case for the USTs formerly located at 2740 Broadway was closed consistent with the Water Board's Low-Threat Underground Storage Tank Closure Policy, by the ACDEH. The closure letter notes that the groundwater plume has not been fully delineated to the north due to the presence of a large off-site building.

4.0 DATA GAPS

After reviewing historical documents and existing analytical data, additional data collection is proposed to close data gaps, update the site conceptual model and obtain information for

possible future remedial alternatives evaluation and design. After reviewing the most recent (2015) soil, soil vapor and groundwater monitoring data, we identified locations where additional data would provide a more complete picture of the distribution of contaminants of concern (COCs). This section summarizes the data gaps identified for further investigation. The data gaps and recommended sampling is provided in this section and sampling methodology and analysis is described in Section 5.0.

4.1 Source Identification

On-site – 2800 Broadway

The source area for the COCs in soil and groundwater has not been identified. The working theory is that a utility sink in the central portion of the building was used to dispose of petroleum and solvent wastes from the historical automotive repair operations performed at the site. The sewer line that connects the utility sink to its discharge point at the city sewer which is located beneath 28th Street has been denoted as the source area. However, based on the highest concentrations of COCs detected along the southern border of the site, this hypothesis needs to be re-assessed. Therefore, a video survey of the sewer line is proposed to determine the integrity and connections of the sewer line.

Off-site

Significant concentrations of COCs, particularly TCE, TPHg and TPHd, have been detected along the southern and eastern portions of the site. The off-site sources to the south of the site across 28th Street are closed former leaking USTs at the 2740 Broadway property. The leaking UST case was closed with the contamination plume not fully delineated due to site constraints. It is currently unknown whether there is an on-site source impacting off-site or if there is an off-site source impacting the site or if there is a case of comingled plume. Therefore, additional MIP borings are proposed to fill this data gap.

4.2 Groundwater Flow Direction

The groundwater gradient at the 2740 Broadway property located to the south of the site reported a groundwater gradient direction ranging from west to northwest. However, the regional groundwater flow in the area is generally towards south or southeast. Therefore, hydraulic gradient beneath the site needs to be determined. Installation of groundwater monitoring wells, survey of top of casing elevations and measurement of depth to groundwater is proposed to fill this data gap.

4.3 Vapor Intrusion Evaluation

Based on the historical documentation, VOC concentrations in soil and groundwater beneath the site suggest possible vapor intrusion into the building. In addition, the elevated concentrations of VOCs in the eastern portion of the site suggest potential vapor intrusion risk to the occupants at the adjacent smog station building (288 28th Street). To date, soil vapor samples have not been collected at the site. This data gap is proposed to be filled by installing and sampling soil vapor probes on-site along the perimeter of the building.

5.0 PROPOSED INVESTIGATION

The following section provides details of the proposed investigation to address the data gaps discussed above. Tabular format of the data gaps identified, proposed investigation and rationale are presented in a tabular format and included in Table 3.

5.1 Video Survey

A video survey will be performed of the sink drain inside the building to assess the integrity of the discharge line and discharge location. In addition, a comprehensive utility survey will be performed to investigate historic infrastructure associated with the former auto repair facility and current infrastructure for the identification of preferential pathways for contaminant migration. A survey of utilities along Broadway and 28th Street will also be performed. Any observations (cracks, line separations) resulting from the video and utility survey may contribute to selecting more appropriate soil, soil vapor and groundwater monitoring well locations. If additional sampling locations are needed, we will provide a revised proposed sampling plan, and ACDEH will be notified of any proposed modification of the assessment scope.

5.2 Soil, Soil Vapor and Groundwater Sampling

Additional soil, soil vapor and groundwater sampling is proposed to update the SCM and to obtain information for possible future remedial alternatives evaluation and design. The scope includes advancing nine exploratory soil borings using membrane interface probe (MIP) technology to a depth of 30 feet, drilling nine exploratory borings for soil sample collection based on the MIP data, drilling six semi-permanent soil vapor points for the collection of soil vapor samples along the site boundary, and installation of six groundwater monitoring wells based on the MIP data (see Figure 7 for proposed sample locations). Figures 8 and 9 presents

proposed sample locations overlaid on the conceptual plan options 2¹ and 3. Table 4 presents proposed borings, depth of borings, chemical analyses proposed and rationale.

5.2.1 Pre-field Activities

Langan will prepare a site-specific health and safety plan (HASP) detailing the scope of the subsurface investigations and identifying the potential health and safety risks associated with the subsurface investigations. Langan will obtain permits required to access the City of Oakland right-of-way from the City of Oakland Public Works Department. Drilling permits will also be obtained by the Alameda County Public Works Agency, Water Resources Section. Prior to all drilling and sampling activities, Langan will mark each proposed drilling location for Underground Services Alert (USA) and will retain a private utility locator to perform subsurface utility locating at each of the drilling locations. Each boring location in asphalt or concrete will be cored prior to drilling and all borings will be hand-cleared to at least five feet bgs prior to any drilling, to identify and prevent encountering subsurface utilities or obstructions.

5.2.2 MIP Data Acquisition and Soil Borings

Langan will observe the advancing and logging of the MIP data at nine locations using a direct-push drill rig equipped with a MIP tool. The MIP is a system manufactured by Geoprobe System® for the detection and measurement of VOCs in the subsurface. The MIP is a screening tool designed to find the depth at which VOC contamination is located by continuously measuring and logging the responses registered on the three detectors listed below.

- Detector 1 – photo ionization detector (PID);
- Detector 2 – electron capture device (ECD); and
- Detector 3 – flame ionization detector (FID).

The tubing that houses the carrier gas and conductivity cable is connected to the MIP tool and is strung through the probe rod. As the probe is driven below grade into undisturbed soil, the advancement is stopped at desired intervals (typically 6-inches) to heat the permeable membrane interface located on the wall of the probe and gather VOC data. Conductivity logging data (which provide lithologic soil-type information) are gathered on a continuous basis. VOCs that are exposed to the membrane are volatilized and picked up by the carrier gas behind the membrane, which in turn delivers the gas to the gas chromatograph detector at the surface. Langan will contract with a California-licensed drilling contractor to advance nine MIP soil

¹ Since both options 1 and 2 have elevator in the same location, only one figure has been included.

borings to depth of approximately 30 feet bgs. Total depth of 30 feet is proposed to capture the two groundwater zones reportedly present at the 2740 Broadway property.

After obtaining and evaluating the MIP data, Langan will propose any changes to the sampling plan and submit to the ACDEH for approval. Upon obtaining ACDEH approval, nine exploratory soil borings will be advanced adjacent to the MIP borings using direct push techniques for the collection of soil samples. At a minimum, three soil samples will be collected at each location depending on the MIP results. Soil borings will be continuously logged in general conformance with the Soil Classification system chart by a Langan field staff. Two grab groundwater samples will be collected from the shallow groundwater bearing zone (11 to 17 feet bgs) and the deeper semi-confined aquifer (below 23 feet bgs) from borings advanced using a dual tube direct-push drill rig. The dual-tube system is used when advancing casing to prevent potential cross-contamination from the upper, shallow water-bearing zone into the deeper semi-confined zone. Soil and groundwater samples will be stored in an ice-chilled cooler until delivery to a State of California-certified analytical laboratory. Figure 2 shows the locations of the proposed MIP and soil borings. Soil and groundwater samples from each boring will be analyzed for TPH-g, TPH-d, TPH-mo by EPA Method 8015 and VOCs by EPA Method 8260.

Soil samples will also be collected from the five on-site borings (L-SB-1, L-SB-2, L-SB-7, L-SB-8, L-SB-9) for analysis of disposal parameters. Based on the conceptual development plans containing no basement, shallow soil samples (1.5 and 3 feet bgs) will be collected and analyzed for TPH-g, TPH-d, TPH-mo by EPA Method 8015 and VOCs by EPA Method 8260, polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270, organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) by EPA Method 8081/8082; and California assessment manual (CAM) 17 metals by EPA Method 6010B.

5.2.3 Monitoring Wells Installation

Based on the MIP boring logs, the soil and grab groundwater results, the locations and number of groundwater monitoring wells will be proposed for installation at the two groundwater depths. However, at a minimum, six pairs of shallow and deep groundwater monitoring wells will be installed. Figure 7 shows the likely locations of the proposed groundwater monitoring wells. Proposed well construction details are included in Table 5.

The groundwater monitoring wells will be constructed with 5 to 10 feet of 2-inch diameter PVC 0.020 slotted screen, followed by 2-inch diameter flush threaded Schedule 40 PVC blank casing to approximately ground surface. The annular well space will be filled with No. 2/12 sand pack from the total depth to approximately one foot above the screen interval, followed by one foot

of hydrated bentonite seal above the sand pack. Cement grout will be placed above the bentonite seal to about one foot bgs. The final surface completion will consist of a traffic-rated flush-mount well box. The groundwater monitoring wells will be surveyed by a licensed surveyor.

The monitoring wells will be allowed to set for a minimum of 48 hours after installation, prior to well development. Well development will be performed using a combination of surge block, bailer, and/or pumping to remove entrained fines. A maximum of ten casing volumes will be purged from each groundwater monitoring well. Groundwater parameters including temperature, pH, specific conductivity, and turbidity will be measured during development, and the well will be considered developed when groundwater parameter measurements vary by +/- 10 percent or less.

The groundwater monitoring wells are proposed to be sampled quarterly for TPH-g, TPH-d, TPH-mo by EPA Method 8015 and VOCs by EPA Method 8260.

5.2.4 Soil Vapor Sampling

Six soil vapor probes will be installed along the eastern and northern perimeter of the 2800 Broadway building to determine if the onsite VOCs are impacting the vapor quality at the adjacent properties. The soil vapor points will be drilled using a direct-push drill rig to a depth of five feet bgs. In addition to the five-foot soil vapor samples, deeper (10-foot bgs) samples will also be collected at three of the six soil vapor sample locations. The five and 10-foot soil vapor samples will be located adjacent to each other. Deeper soil vapor samples are needed to evaluate preferential pathway exposures due to deeper foundation elements such as elevator pits. The soil vapor samples will be collected in general accordance with the California Department of Toxic Substances Control's (DTSC) documents titled "*Advisory – Active Soil Gas Investigation*" dated July 2015 and "*Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air*" dated October 2011. A shut-in test will be performed to ensure that no leaks exist in the laboratory provided sampling equipment. Soil vapor samples will be collected directly into one-Liter Summa canisters at a flow rate of 200 milliliter per minute (ml/min). Helium will be used as a tracer gas around the probe rods during sampling as a quality assurance/quality control (QA/QC) measure to confirm the sample integrity. Soil vapor samples will be transported under chain-of-custody procedures to a State of California-certified laboratory.

After soil vapor sampling is completed, the temporary soil gas wells will be abandoned by removing the tubing assembly and backfilling the borings with neat-cement grout. Soil vapor

samples will be analyzed for VOCs by EPA Method TO-15 and Helium by ASTM Method D-1946.

All sampling equipment will be decontaminated between sampling locations. All soil and drilling waste will be stored at the site in sealed and labeled 55-gallon drums pending analytical profiling for proper off-site disposal.

6.0 DATA EVALUATION AND REPORTING

Following field activities, Langan will prepare a report detailing the results of the MIP borings, soil and grab groundwater sampling, groundwater monitoring well installations and soil vapor sampling, as well as descriptions of methods used, analytical laboratory results, and site-specific maps. The results of the investigation will be used to update the site conceptual model and to delineate the nature and extent of the contaminant plume. The report will also make recommendations for additional environmental studies or mitigation/remediation measures, as appropriate. In accordance with ACDEH requirements, all reports and data will be uploaded to ACDEH FTP website and Water Board's GeoTracker site.

7.0 SEQUENCE/SCHEDULE OF ACTIVITIES

Field work will begin within three weeks after obtaining ACDEH approval, depending on subcontractor availability, field coordination, and permits procurement. The field investigation, analytical testing and preliminary data evaluation is estimated to take up to six weeks to complete. The anticipated order of activities will be:

1. Video and utility survey of the drain, sewer lines, streets and utilities;
2. Pre-sampling field activities (USA and utility locating);
3. Soil, grab groundwater, and soil vapor boring locations located inside the building (First Mobilization)
4. MIP boring advancement (Second Mobilization);
5. Soil, grab groundwater, and soil vapor boring locations located outside the building (Mobilization 3);
6. Groundwater monitoring well installations, development, sampling and analysis (Mobilization 4); and
7. Reporting.

We anticipate the final analytical results will be obtained in the October 2017 which will be used to update the site conceptual model and develop a groundwater remediation plan in November/December 2017.

REFERENCES

Cardno ATC, 2015. *Draft Phase I Environmental Site Assessment, Premier Hyundai of Oakland, 2800, 2820 and 2855 Broadway, Oakland, California.* 4 September

ATC Group Services, LLC, 2015. *Limited Phase II Environmental Site Assessment, 2800, 2820 and 2855 Broadway, Oakland.* 29 December

ARCADIS, 2013. *Soil and Groundwater Investigation Report for Volkswagen Automobile Dealership, 2740 Broadway Avenue, Oakland, California.* 28 August

ARCADIS, 2014. *Groundwater and Soil Vapor Monitoring Report for Volkswagen Automobile Dealership, 2740 Broadway Avenue, Oakland, California.* 19 March

ARCADIS, 2014. *Conceptual Site Model and Low-Threat Closure Request for Volkswagen Automobile Dealership, 2740 Broadway Avenue, Oakland, California.* 5 June

ACDEH, 2015. *Case Closure for Fuel Leak Case No. RO0000400 and GeoTracker Global ID T0600100227, Broadway Volkswagen, 2740 Broadway Avenue, Oakland, California.* 5 May

TABLES

**TABLE 1
SITE CONCEPTUAL MODEL
2800 BROADWAY**

NO.	CSM ELEMENT	DESCRIPTION	EXHIBITS	REFERENCES	DATA GAPS	RESOLUTION
1	Site Description	<p>The property, 2800 Broadway (site), is located to the northeast of the intersection between Broadway and 28th Street in Oakland, California, in a fully developed area known as "Auto Row", characterized primarily by commercial and high density residential buildings. The site area is approximately 13,200 square feet and currently contains a one-story warehouse building with a mezzanine which was built in 1916. The warehouse building occupies the entire site footprint.</p> <p>The irregular shaped site is bound by Broadway to the west, a commercial building under construction to the north (2820 Broadway, formerly a Hyundai dealership), a smog station (Broadway Smog Station, 288 28th Street) to the east and 28th Street to the south. To the south across from 28th Street is the Broadway Volkswagen Dealership building (2740 Broadway).</p> <p>Based on historical research and supporting documentation, the site was vacant prior to 1902. Two residential buildings occupied the site from 1903 through 1912. The existing building was constructed approximately in 1916. Historical uses of the on-site building have included a car dealership in 1933, an auto parts and service center in 1938, used car sales from 1943 through 1945, a lighting retail store from 1950 through 1991, an automotive upholstery service from 1996 through 2008, and storage of cars for an auto dealership from 2008 to present.</p> <p>Current conceptual site development plans propose mixed-use development consisting of at or below grade parking, street level commercial space (showroom), and upper floor residential units.</p>	<p>Figure 1 – Site Location Map</p> <p>Figure 2 – Site Plan</p> <p>Appendix B – Conceptual Site Development Plans</p>	<p>Cardno ATC, 2015. <i>Draft Phase I Environmental Site Assessment, Premier Hyundai of Oakland, 2800, 2820 and 2855 Broadway, Oakland, California.</i> 4 September</p> <p>ATC Group Services, LLC, 2015. <i>Limited Phase II Environmental Site Assessment, 2800, 2820 and 2855 Broadway, Oakland.</i> 29 December</p>	None	Not Applicable
2	Surface Water Bodies	<p>At their nearest points, Glen Echo Creek is located approximately 400 feet southeast of the site and Lake Merritt is located approximately 0.4 mile southeast of the site. The San Francisco Bay is approximately two miles to the northwest of the site. Glen Echo Creek extends from Mountain View Cemetery, located in the foothills northeast of the site, until it meets at its confluence near the intersection of Broadway and Interstate 580 eventually discharging at the northern end of Lake Merritt. The creek occupies the surficial contact between the Holocene and Pleistocene alluvial fan deposits. The creek is channelized for approximately 1,700 feet in artificial fill, prior to its discharge point into Lake Merritt, which in turn discharges through a narrow channel at its southern terminus point into the inner Oakland harbor of San Francisco Bay.</p>	Figure 3 – Nearby Surface Water Bodies	None	None	Not Applicable
3	Nearby Wells	<p>The State Water Resources Quality Control Board's (RWQCB) Geotracker GAMA website provides the locations of water supply wells. Langan reviewed the GAMA website in June 2017 and no municipal supply wells were shown within 1,000 feet of the site.</p> <p>Langan reviewed Alameda County Public Works Agency data for permitted wells and borings in the area. No domestic or municipal supply wells were identified within 1,500 feet of the site.</p>	Appendix C Transmittals of Well Search Results	<p>Department of Water Resources, <i>Results of Well Search</i> dated 27 June 2017.</p> <p>Alameda County Public Works Agency, <i>Results of Well Search</i>, transmitted XX July 2017.</p>	A well survey is needed to identify water-producing, monitoring, cathodic protection, and dewatering wells.	Data obtained regarding permitted wells from the California Department of Water Resources and Alameda County Public Works Agency.

**TABLE 1
SITE CONCEPTUAL MODEL
2800 BROADWAY**

NO.	CSM ELEMENT	DESCRIPTION	EXHIBITS	REFERENCES	DATA GAPS	RESOLUTION
4	Regional Geology and Hydrogeology	<p><u>Regional Geology</u> Regional physiographic conditions are reflective of and affected by the tectonic framework, regional faulting, and geologic units that comprise the site and surrounding area. The regional topography is characterized by northwest to southeast oriented coastal hills and intervening valleys, developed as a consequence of plate motions at the boundary of the North American and Pacific lithospheric plates. Under the current tectonic framework, compressive and shearing forces from the plate motions are distributed regionally across several active, sub-parallel, northwest to southeast trending fault zones. Horizontal motion is distributed across the major active strike-slip faults. Within the East Bay, these faults include the Hayward, Calaveras and Concord Faults, which comprise the East Bay Fault System (EBFS) (Sloan, 2006). Compressive deformation is distributed across northwest to southeast trending thrust and reverse faults parallel to the major strike-slip faults of the EBFS (Graymer, 2000). Regional uplift of the East Bay hills was coincident with a change in tectonic forces to a component of compression beginning approximately 3.5 million years ago (Sloan, 2006); current measurements indicate uplift is occurring at a rate of as much as one millimeter per year (Graymer, 2000). Regionally, bedrock is composed of the Mesozoic Franciscan Assemblage (complexly faulted and folded marine sedimentary and volcanic rocks) and is overlain by Quaternary to modern sedimentary formations which include alluvial fans, and basin and stream valley deposits, amongst others (Graymer, 2000). These Quaternary sedimentary formations were deposited during regional uplift.</p> <p><u>Regional Hydrogeology</u> The San Francisco Bay hydrologic region has 28 identified groundwater basins underlying approximately 30 percent of the entire San Francisco Bay region (DWR, 2003). Alameda County is within the East Bay Plain sub-basin of the Santa Clara Valley groundwater basin. The East Bay Plain sub-basin is bounded to the north by San Pablo Bay, to the east by Franciscan bedrock, to the south by the Niles Cone groundwater basin, and extends to the west below the San Francisco Bay. The East Bay Plain is formed in an alluvial plain; the main water bearing units consist of unconsolidated Quaternary sedimentary formations, including the Pleistocene Santa Clara and Alameda Formations, and the Holocene Temescal Formation as well as artificial fill. With the exception of artificial fill, these main water-bearing formations were deposited as alluvial fans.</p> <p>Total groundwater storage capacity within the East Bay Plain was estimated to be 2,670,0000 acre feet, of which, approximately 2,500,000 acre feet is in storage to a depth of 1,000 feet below mean sea level; adjusting for potential sea water intrusion reduces the groundwater is storage to approximately 80,000 acre feet (storage above mean sea level). The San Francisco Bay Regional Water Quality Control Board identified 13 areas of major groundwater pollution in the East Bay Plain; contamination was most commonly associated with release of fuels and solvents, and was generally found within the upper 50 feet (DWR, 2004).</p>	Figure 4 – Regional Geology and Key Hydrologic Features	<p>Sloan, Doris. <i>Geology of the San Francisco Bay Region, California Natural History Guides</i>, University of California Press; First Printing edition. (360 pages), 27 June 2006.</p> <p>Graymer, R.W. <i>Geologic Map and Map Database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California</i>. Miscellaneous Field Studies MF-2342, 2000.</p> <p>California Department of Water Resources (DWR). <i>Bulletin 118, Update</i>, October 2003.</p> <p>DWR. <i>San Francisco Bay Hydrologic Region, California's Groundwater Bulletin 118, Santa Clara Valley Groundwater Basin, East Bay Plain Subbasin</i>, Last update 27 February 2004.</p>	None	Not Applicable

**TABLE 1
SITE CONCEPTUAL MODEL
2800 BROADWAY**

NO.	CSM ELEMENT	DESCRIPTION	EXHIBITS	REFERENCES	DATA GAPS	RESOLUTION
5	Site Geology	<p>Originally, the site was near the edge of a tidal marsh that extended from the shores of Lake Merritt. Based on historic information, fill was placed in the area sometime after 1850s. The tidal marsh appears to have been near the eastern edge of the site, overlying marine terrace deposits. The eastern portion of the site in the former tidal marsh area corresponds to the area of the site that is partially in a liquefaction hazard zone designated by the California Geological Survey (CGS) seismic hazard zone map for the area. The site's surficial geology is mapped as Pleistocene aged Quaternary marine terrace deposits described as brown, dense, gravelly and clayey sand or clayey gravel fining upward to sandy clay (Graymer, 2000).</p> <p>The subsurface has been explored to a depth up to 28 feet below ground surface (bgs). The subsurface soil at the site and vicinity reportedly consist of silt, silty sand, silty clay, sandy clay and clayey sand, with clays ranging from soft to very stiff. The site is located within the Coast Ranges geomorphic province, which is characterized by a series of parallel, northwesterly trending, folded and faulted mountain chains and valleys. In central California, these ranges are separated by a geologic depression that formed mainly by Franciscan Formation rock series, consisting of Jurassic Franciscan melanges. The East Bay ranges forms the eastern boundary of the Bay and consist of Late Mesozoic shelf and slope sedimentary rocks. Situated between the East Bay ranges and San Francisco Bay is the East Bay Plain. This plain measures approximately 25 miles long and two to seven miles wide. Prior to urban development, the plain consisted of tidal flats, estuaries and alluvial plains.</p> <p>Cross-sections were developed from the boring logs produced during the site subsurface investigations. Observations during previous site investigations indicate that the site is blanketed by approximately two to five feet of fill, which is comprised of silt, sand, and clay mixtures. The boring logs indicate the fill is generally underlain by an uppermost fine-grained unit consisting of stiff clay to sandy clay with varying amounts of sand and gravel, to depths of 26 feet. In multiple borings, this fine-grained unit overlies a coarse-grained deposit of poorly to well-graded sand and gravelly sand generally found at depths of twelve to fifteen feet, ranging between five to thirteen feet in thickness, and apparently extending beyond the northern boundary of the site. Underlying the coarse unit, the soil consists predominantly of very stiff, wet clay and gravelly clay, to the depth of the borings.</p>	<p>Figure 2 – Site Plan with Historical Sampling Locations and Cross-Section Lines</p> <p>Figure 5 – Cross-Sectional Profile A-A'</p> <p>Figure 6 – Cross-Sectional Profile B-B'</p> <p>Appendix D. Boring Logs by Others</p>	<p>California Geological Survey, <i>State of California Seismic Hazard Zones, Oakland West Quadrangle, Official Map</i> dated 14 February 2003.</p> <p>Graymer, R.W. <i>Geologic Map and Map Database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California</i>. Miscellaneous Field Studies MF-2342, 2000.</p>	<p>Additional borings are needed to fully understand the subsurface, especially with respect to deeper geology.</p>	<p>MIP data acquisition, and advancement of nine soil borings is proposed (up to a depth of approximately 30 feet) and soil lithology will be logged. See Item 1 on Table 2.</p>
6	Site Groundwater Depth and Flow	<p>Historical subsurface investigation reports for the properties adjacent to the site characterized the geology at the site as being predominantly clayey with interbedded sand layers of one to two feet thickness. A shallow sand layer was documented at 11 to 17 feet bgs that increases in depth from east to west. The groundwater within this shallow sand layer was reported to be perched because clay sediment observed during advancement of soil borings (at the 2740 Broadway property) located above and below the sand layer was dry. The soil below the sand layer reportedly continues with lower permeability clays until a depth of approximately 22 to 23 feet bgs. At this depth, the soil was described as sandy clay with a semi-confined groundwater aquifer.</p>	<p>Figure 2 – Site Plan with Historical Sampling Locations and Cross-Section Lines</p>	<p>ARCADIS, 2014. <i>Conceptual Site Model and Low-Threat Closure Request for Volkswagen Automobile Dealership, 2740 Broadway Avenue, Oakland, California</i>. 5 June</p>	<p>The on-site groundwater gradient has not been confirmed.</p>	<p>Shallow and deeper groundwater monitoring wells will be installed to provide information about lateral and vertical gradients. See Item 2 on Table 2.</p>

**TABLE 1
SITE CONCEPTUAL MODEL
2800 BROADWAY**

NO.	CSM ELEMENT	DESCRIPTION	EXHIBITS	REFERENCES	DATA GAPS	RESOLUTION
		<p>The groundwater flow direction in the site vicinity varies, with data from the property to the south (the Volkswagen dealership property at 2470 Broadway), indicating a northern and western flow direction (shallow groundwater), while the property (2820 and 2855 Broadway) to the northwest of the site indicates a southern groundwater flow direction (ATC, 2015). The Glen Echo Creek is approximately 375 feet east of the site, and flows in a southeasterly direction towards Lake Merritt, which is approximately 0.5 miles southeast of the site.</p>				

Table 2
Summary of Historical Sampling
2800 Broadway
Oakland, California

Sample ID	Media	Sample Depth (feet bgs)	Sample Date	Analyses Performed	Results Summary
AEI Soil Borings					
SB-4	Soil	12'	4/8/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
SB-5	Soil	12'	4/8/2015	TPH (d, g, mo), and VOCs	
SB-6	Soil	12'	4/8/2015	TPH (d, g, mo), and VOCs	
Cardno ATC Soil Borings					
B-2	Soil	5'	9/19/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
		10'	9/19/2015	TPH (d, g, mo), and VOCs	
		12'	9/19/2015	TPH (d, g, mo), and VOCs	
		15'	9/19/2015	TPH (d, g, mo), and VOCs	
		16'	9/19/2015	TPH (d, g, mo), and VOCs	
	Groundwater	15'	9/19/2015	TPH (d, g, mo), and VOCs	Naphthalene - 1,200 µg/kg All other COCs below ESLs. TPHg - 880,000 µg/L TPHd - 170,000 µg/L Benzene - 150 µg/L Toluene - 3,000 µg/L Ethylbenzene - 6,500 µg/L Total xylenes - 27,000 µg/L cis-1,2-Dichloroethene - 14,000 µg/L TCE - 7.9 µg/L Naphthalene - 4,200 µg/L All other COCs below ESLs.
B-4	Soil	5'	10/3/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
		10'	10/3/2015	TPH (d, g, mo), and VOCs	
		14'	10/3/2015	TPH (d, g, mo), and VOCs	
		16'	10/3/2015	TPH (d, g, mo), and VOCs	
	Groundwater	15'	10/4/2015	TPH (d, g, mo), and VOCs	TPHg - 3,800 µg/L TPHd - 830 µg/L Benzene - 25 µg/L Ethylbenzene - 40 µg/L cis-1,2-Dichloroethene - 180 µg/L TCE - 4,400 µg/L Naphthalene - 10 µg/L All other COCs below ESLs.
B-5	Soil	5'	10/3/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
		10'	10/3/2015	TPH (d, g, mo), and VOCs	
		15'	10/3/2015	TPH (d, g, mo), and VOCs	
	Groundwater	15'	10/4/015	TPH (d, g, mo), and VOCs	TPHg - 14,000 µg/L TPHd - 710 µg/L Benzene - 56 µg/L cis-1,2-Dichloroethane - 190 µg/L TCE - 14,000 µg/L Naphthalene - 4.2 µg/L All other COCs below ESLs.
B-6	Soil	5'	10/3/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
		10'	10/3/2015	TPH (d, g, mo), and VOCs	
		15'	10/3/2015	TPH (d, g, mo), and VOCs	
	Groundwater	15'	10/4/2015	TPH (d, g, mo), and VOCs	TPHd - 140 µg/L TCE - 340 µg/L All other COCs below ESLs.
B-7	Soil	5'	10/3/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
		10'	10/3/2015	TPH (d, g, mo), and VOCs	
		15'	10/3/2015	TPH (d, g, mo), and VOCs	
	Groundwater	15'	10/4/2015	TPH (d, g, mo), and VOCs	TPHg - 340 µg/L TPHd - 270 µg/L TCE - 460 µg/L All other COCs below ESLs.
B-8	Soil	5'	10/3/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
		10'	10/3/2015	TPH (d, g, mo), and VOCs	
		15'	10/3/2015	TPH (d, g, mo), and VOCs	
	Groundwater	15'	10/4/015	TPH (d, g, mo), and VOCs	TPHd - 170 µg/L cis-1,2-Dichloroethane - 12 µg/L TCE - 1,900 µg/L All other COCs below ESLs.
B-9	Soil	10'	10/3/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
		15'	10/3/2015	TPH (d, g, mo), and VOCs	
	Groundwater	17'	10/4/2015	TPH (d, g, mo), and VOCs	TPHd - 200 µg/L TCE - 36 µg/L All other COCs below ESLs.

Table 2
Summary of Historical Sampling
2800 Broadway
Oakland, California

Sample ID	Media	Sample Depth (feet bgs)	Sample Date	Analyses Performed	Results Summary
B-10	Soil	5'	10/3/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
		10'	10/3/2015	TPH (d, g, mo), and VOCs	
		15'	10/3/2015	TPH (d, g, mo), and VOCs	
	Groundwater	20'	10/4/2015	TPH (d, g, mo), and VOCs	TPHg - 51 µg/L TPHd - 320 µg/L TCE - 17 µg/L All other COCs below ESLs.
B-12	Soil	5'	10/10/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
		10'	10/10/2015	TPH (d, g, mo), and VOCs	
		15'	10/10/2015	TPH (d, g, mo), and VOCs	
	Groundwater	20'	10/10/2015	TPH (d, g, mo), and VOCs	TPHg - 12,800 µg/L Benzene - 6.9 µg/L Ethylbenzene - 59.9 µg/L Total xylenes - 29.5 µg/L cis-1.2-Dichloroethane - 9.4 µg/L TCE - 121 µg/L Naphthalene - 54.3 µg/L All other COCs below ESLs.
B-13	Soil	5'	10/10/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
		10'	10/10/2015	TPH (d, g, mo), and VOCs	
		15'	10/10/2015	TPH (d, g, mo), and VOCs	
		24'	10/10/2015	TPH (d, g, mo), and VOCs	
		28'	10/10/2015	TPH (d, g, mo), and VOCs	
	Groundwater	28'	10/10/2015	TPH (d, g, mo), and VOCs	TPHg - 3,550 µg/L TCE - 2,800 µg/L All other COCs below ESLs.
B-14	Soil	5'	10/10/2015	TPH (d, g, mo), and VOCs	All COCs below ESLs.
		12'	10/10/2015	TPH (d, g, mo), and VOCs	
		15'	10/10/2015	TPH (d, g, mo), and VOCs	
	Groundwater	15'	10/10/2015	TPH (d, g, mo), and VOCs	TPHg - 7,800 µg/L cis-1.2-Dichloroethane - 26.1 µg/L TCE - 6,160 µg/L All other COCs below ESLs.

*Results compared to the most conservative Tier 1 ESLs for both soil and groundwater.

**Tier 1 ESL - Based on conservative default Conceptual Site Model (CSM) scenario conditions listed in Table 2-2.

Notes:

bgs - below ground surface

TPHg - Total Petroleum Hydrocarbons as Gasoline

TPHd - Total Petroleum Hydrocarbons as Diesel

TPHmo - Total Petroleum Hydrocarbons as Motor Oil

VOC - Volatile Organic Compounds

COCs - Contaminants of concern

ESL - Environmental Screening Level(s)

Tier 1 ESL - San Francisco Bay Regional Water Quality Control Board's Environmental Screening Levels - Tier 1. February 2016 [Rev. 3]

µg/kg - micrograms per kilogram

µ/L - micrograms per liter

TCE - Trichloroethene

Bold - Detection exceeds Tier 1 ESL

**TABLE 3
2800 Broadway
Oakland, California**

NO.	DATA GAP	PROPOSED INVESTIGATION	EXPLANATION/RATIONALE	ANALYSIS
1	<p>Source Identification and Preferential Pathway Evaluation <i>On-site</i></p>	<p>A video survey of the sewer line will be performed of the sink drain inside the building to assess the integrity of the discharge line and discharge location. In addition, a comprehensive utility survey will be performed to investigate historic infrastructure associated with the former auto repair facility and current infrastructure for the identification of preferential pathways for contaminant migration. A survey of utilities along Broadway and 28th Street will also be performed.</p>	<p>The source area for the contaminants of concern (COCs) in soil and groundwater has not been identified. The working theory is that a utility sink in the central portion of the building was used to dispose of petroleum and solvent wastes from the historical automotive repair operations performed at the site. The sewer line that connects the utility sink to its discharge point at the city sewer which is located beneath 28th Street has been denoted as the source area. However, based on the highest concentrations of COCs detected along the southern border of the site, this hypothesis needs to be re-assessed.</p>	<p>None</p>
	<p><i>Off-site</i></p>	<p>Advancement of nine MIP borings to a depth of 30 feet bgs using a direct-push drill rig equipped with a MIP tool. Total depth of 30 feet is proposed to capture the two groundwater zones reportedly present at the 2740 Broadway property. Based on the MIP data, nine exploratory borings will be advanced adjacent to the MIP borings using direct push techniques for the collection of soil and grab groundwater samples. Three soil samples will be collected at each location depending on the MIP results. If the MIP does not provide a response, then the samples will be collected at shallow interval [5 feet bgs], intermediate interval [10 feet bgs], and deep interval [25 feet bgs]. Groundwater is expected to be collected at the shallow (11 to 17 feet bgs) and deeper (below 23 feet bgs) zones.</p>	<p>Significant concentrations of COCs, particularly TCE, TPHg and TPHd, have been detected along the southern and eastern portions of the site. The off-site sources to the south of the site across 28th Street are closed former leaking USTs at the 2740 Broadway property. The leaking UST case was closed with the contamination plume not fully delineated due to site constraints. It is currently unknown whether there is an on-site source impacting off-site or if there is an off-site source impacting the site or if there is a case of comingled plume.</p>	<p>Soil and groundwater samples from each boring will be analyzed for TPH-g, TPH-d, TPH-mo by EPA Method 8015 and VOCs by EPA Method 8260</p>
2	<p>Groundwater Flow Direction</p>	<p>Installation of groundwater monitoring wells, survey of top of casing elevations and measurement of depth to groundwater is proposed to fill this data gap. Based on the MIP boring logs, the soil and grab groundwater results, the locations and number of groundwater monitoring wells will be proposed for installation. However, at a minimum, six pairs of shallow and deep groundwater monitoring wells will be installed.</p>	<p>The groundwater gradient at the 2740 Broadway property located to the south of the site reported a groundwater gradient direction ranging from west to northwest. However, the regional groundwater flow in the area is generally towards south or southeast. Therefore, hydraulic gradient beneath the site needs to be determined.</p>	<p>Groundwater monitoring wells will be surveyed by a state-licensed surveyor to determine groundwater gradient.</p> <p>Groundwater monitoring wells will be sampled semi-annually for TPH-g, TPH-d, TPH-mo by EPA Method 8015 and VOCs by EPA Method 8260.</p>

**TABLE 3
2800 Broadway
Oakland, California**

NO.	DATA GAP	PROPOSED INVESTIGATION	EXPLANATION/RATIONALE	ANALYSIS
3	Vapor Intrusion Evaluation	<p>A foundation survey for the adjacent buildings was performed to determine the appropriate depth of soil vapor probe installation. The buildings to the east (Smog shop and senior facility) consist of slab-on grade construction. The multi-use facility under construction to the north is also proposed to consist of slab-on grade construction, with the exception of deeper foundation elements (elevators, deep utilities) extending to a depth of 10.5 feet below grade at the center of the development, approximately 30 to 40 feet to the north of the site.</p> <p>In addition, the conceptual site development plans (three options included in Appendix B) for the proposed development on-site propose slab-on grade construction without basement. However, elevators are proposed in two of the three options proposed.</p> <p>Therefore, six semi-permanent soil vapor probes will be installed to a depth of five-feet below the existing foundation along the eastern and northern perimeter of the on-site building. At three out of the six soil vapor sample locations, 10-foot below grade soil vapor probes will also be installed and samples collected to evaluate preferential pathway exposure due to deeper foundation elements. Semi-permanent probes are proposed to facilitate potential future sampling if deemed necessary.</p>	<p>Based on the historical documentation, VOC concentrations in soil and groundwater beneath the site suggest possible vapor intrusion into the building. In addition, the elevated concentrations of VOCs in the eastern portion of the site suggest potential vapor intrusion risk to the occupants at the adjacent smog station building (288 28th Street). To date, soil vapor samples have not been collected at the site. The soil vapor sampling will also help determine if the on-site VOCs are impacting the vapor quality at the site and adjacent properties.</p>	<p>Soil vapor samples will be analyzed for VOCs by EPA Method TO-15, Helium by ASTM Method D-1946, and fixed gases (oxygen, carbon dioxide and methane) by ASTM Method D-1946</p>

Table 4
Proposed Sampling and Analysis
2800 Broadway
Oakland, California

Sample Name	Media	Sampling Interval (ft bgs)	Proposed Analyses	Rationale
L-SB-1	Soil	1.0 to 1.5 2.5 to 3	TPH-g, d, mo, VOCs, SVOCs, PAHs, OCPs, PCBs and CAM 17 Metals	Disposal parameters evaluation
		4.5 to 5 9.5 to 10 24.5 to 25	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-2	Soil	1.0 to 1.5 2.5 to 3	TPH-g, d, mo, VOCs, SVOCs, PAHs, OCPs, PCBs and CAM 17 Metals	Disposal parameters evaluation
		4.5 to 5 9.5 to 10 24.5 to 25	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-3	Soil	4.5 to 5 9.5 to 10 24.5 to 25	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-4	Soil	4.5 to 5 9.5 to 10 24.5 to 25	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-5	Soil	4.5 to 5 9.5 to 10 24.5 to 25	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-6	Soil	4.5 to 5 9.5 to 10 24.5 to 25	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-7	Soil	1.0 to 1.5 2.5 to 3	TPH-g, d, mo, VOCs, SVOCs, PAHs, OCPs, PCBs and CAM 17 Metals	Disposal parameters evaluation
		4.5 to 5 9.5 to 10 24.5 to 25	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-8	Soil	1.0 to 1.5 2.5 to 3	TPH-g, d, mo, VOCs, SVOCs, PAHs, OCPs, PCBs and CAM 17 Metals	Disposal parameters evaluation
		4.5 to 5 9.5 to 10 24.5 to 25	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-9	Soil	1.0 to 1.5 2.5 to 3	TPH-g, d, mo, VOCs, SVOCs, PAHs, OCPs, PCBs and CAM 17 Metals	Disposal parameters evaluation
		4.5 to 5 9.5 to 10 24.5 to 25	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-1-GW-A	Groundwater	11 to 17	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-1-GW-B	Groundwater	24 to 30	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-2-GW-A	Groundwater	11 to 17	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-2-GW-B	Groundwater	24 to 30	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-3-GW-A	Groundwater	11 to 17	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-3-GW-B	Groundwater	24 to 30	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-4-GW-A	Groundwater	11 to 17	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-4-GW-B	Groundwater	24 to 30	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-5-GW-A	Groundwater	11 to 17	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-5-GW-B	Groundwater	24 to 30	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-6-GW-A	Groundwater	11 to 17	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-6-GW-B	Groundwater	24 to 30	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-7-GW-A	Groundwater	11 to 17	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-7-GW-B	Groundwater	24 to 30	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-8-GW-A	Groundwater	11 to 17	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-8-GW-B	Groundwater	24 to 30	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-9-GW-A	Groundwater	11 to 17	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SB-9-GW-B	Groundwater	24 to 30	TPH-g, d, mo, VOCs	VOCs and Petroleum release detection
L-SV-1-5'	Soil Vapor	5	VOCs , Helium, Oxygen, Carbon dioxide, and Methane	VOCs and Petroleum release detection
L-SV-1-10'	Soil Vapor	10	VOCs , Helium, Oxygen, Carbon dioxide, and Methane	VOCs and Petroleum release detection
L-SV-2-5'	Soil Vapor	5	VOCs , Helium, Oxygen, Carbon dioxide, and Methane	VOCs and Petroleum release detection
L-SV-2-10'	Soil Vapor	10	VOCs , Helium, Oxygen, Carbon dioxide, and Methane	VOCs and Petroleum release detection
L-SV-3-5'	Soil Vapor	5	VOCs , Helium, Oxygen, Carbon dioxide, and Methane	VOCs and Petroleum release detection
L-SV-3-10'	Soil Vapor	10	VOCs , Helium, Oxygen, Carbon dioxide, and Methane	VOCs and Petroleum release detection
L-SV-4-5'	Soil Vapor	5	VOCs , Helium, Oxygen, Carbon dioxide, and Methane	VOCs and Petroleum release detection
L-SV-5-5'	Soil Vapor	5	VOCs , Helium, Oxygen, Carbon dioxide, and Methane	VOCs and Petroleum release detection
L-SV-6'	Soil Vapor	5	VOCs , Helium, Oxygen, Carbon dioxide, and Methane	VOCs and Petroleum release detection

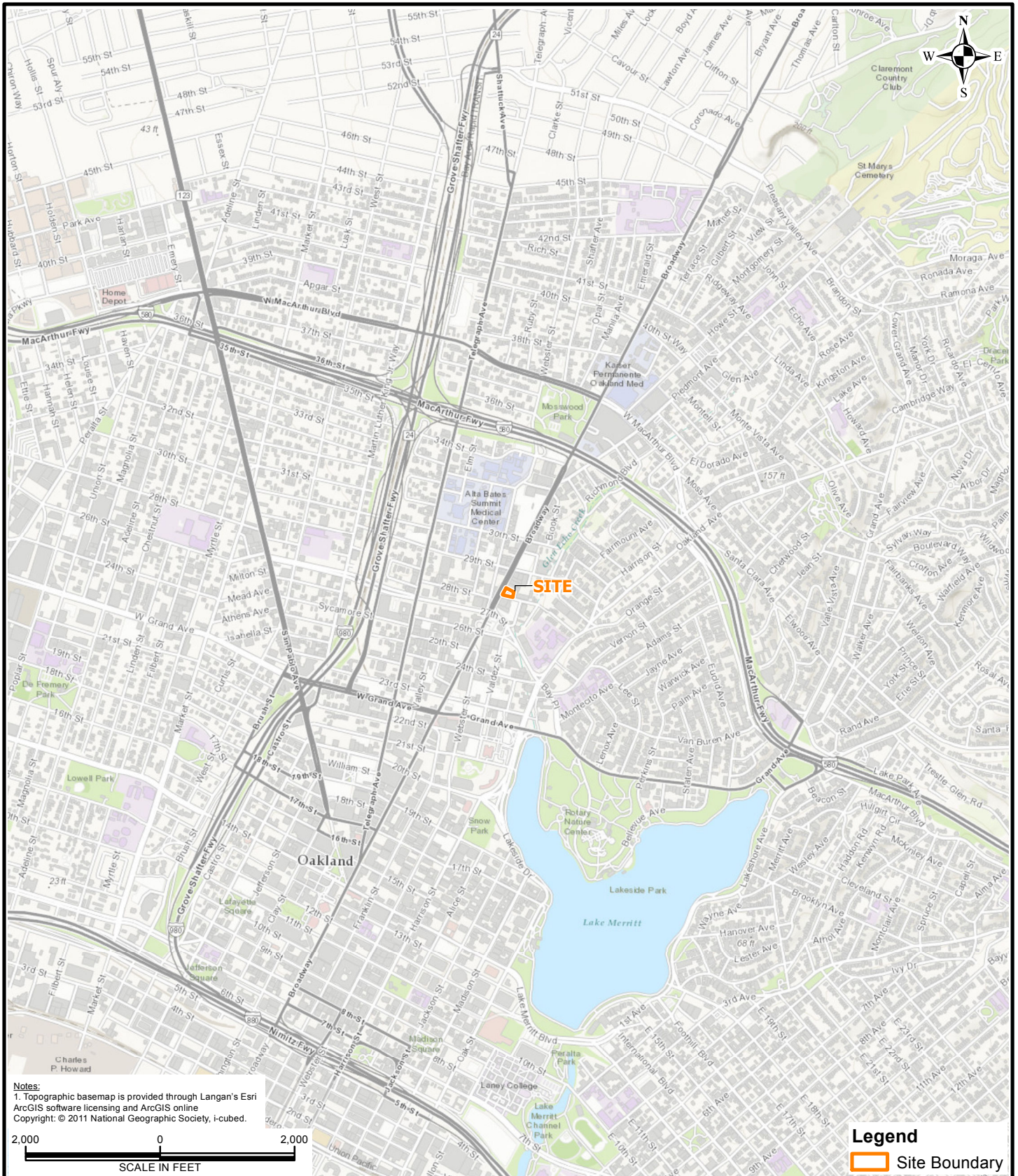
**Table 5
 Proposed Well Construction Details
 2800 Broadway
 Oakland, California**

Well Name	Installation Date	Total Depth of Boring (ft bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (ft bgs)
L-MW-1A	TBD	17	8	2	11-17
L-MW-2A	TBD	17	8	2	11-17
L-MW-3A	TBD	17	8	2	11-17
L-MW-4A	TBD	17	8	2	11-17
L-MW-5A	TBD	17	8	2	11-17
L-MW-6A	TBD	17	8	2	11-17
L-MW-1B	TBD	30	8	2	24-30
L-MW-2B	TBD	30	8	2	24-30
L-MW-3B	TBD	30	8	2	24-30
L-MW-4B	TBD	30	8	2	24-30
L-MW-5B	TBD	30	8	2	24-30
L-MW-6B	TBD	30	8	2	24-30

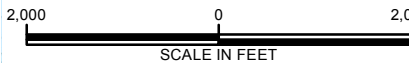
Notes:

ft bgs - feet below ground surface

FIGURES



Notes:
 1. Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online
 Copyright: © 2011 National Geographic Society, i-cubed.



Legend
 Site Boundary

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 Langan Engineering, Environmental, Surveying and
 Landscape Architecture, D.P.C.
 Langan International LLC
 Collectively known as Langan

Project
2800 BROADWAY
 OAKLAND

ALAMEDA COUNTY CALIFORNIA

Drawing Title
**SITE
 LOCATION MAP**

Project No.
770638301

Date
7/5/2017

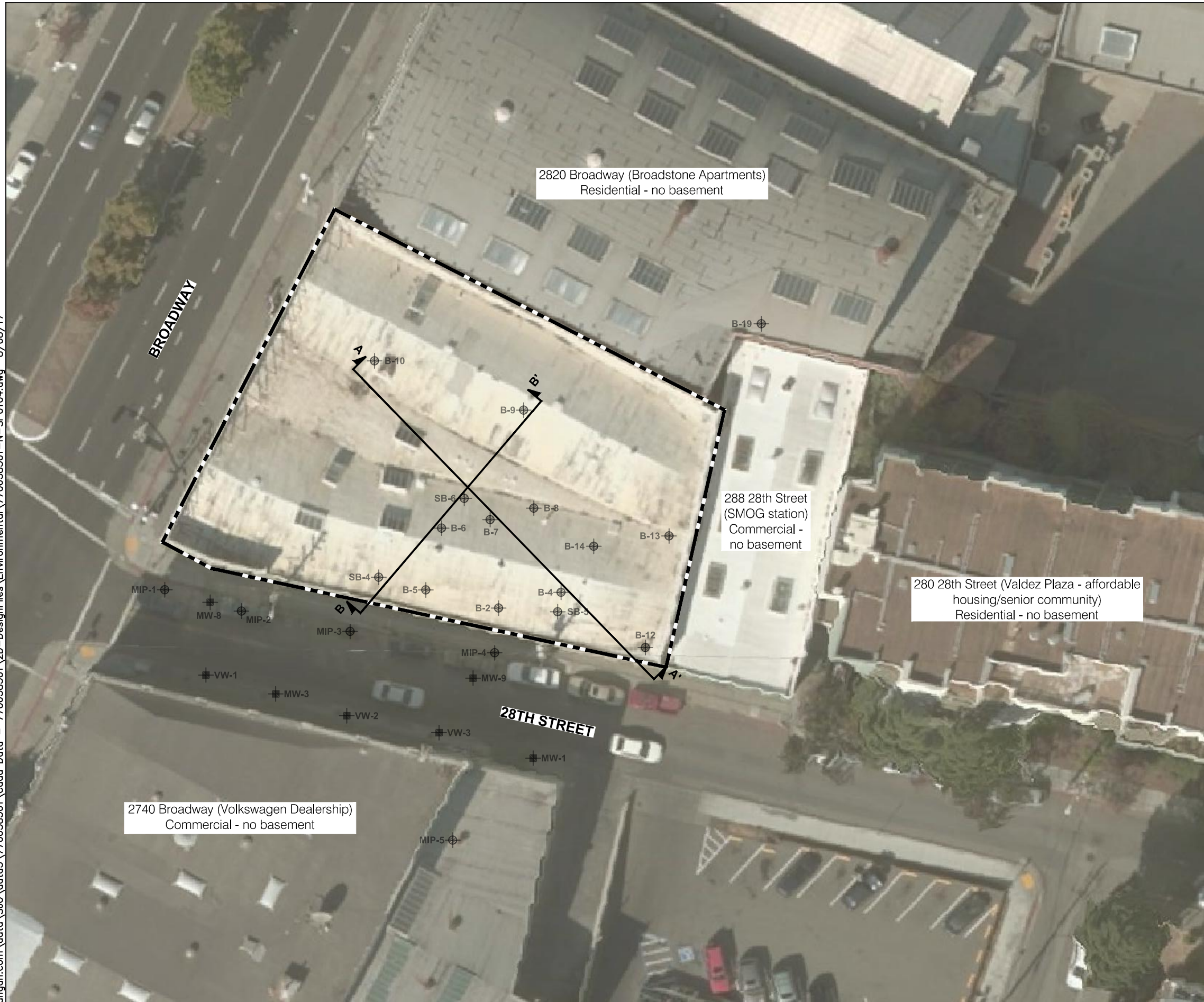
Scale
1" = 2,000'

Drawn By
BJS

Figure

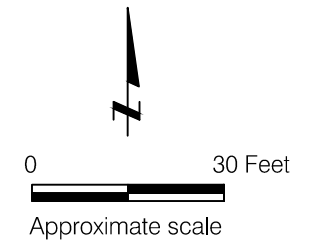
1

\\langan.com\data\SJ0\data3\770638301\Cadd Data - 770638301\2D-DesignFiles\Environmental\770638301-N-SP0104.dwg 8/08/17



EXPLANATION

- B-1 Approximate location of boring by ATC Cardno, September and November 2015
- SB-4 Approximate location of boring by AEI, April 2015
- MIP-1 Approximate location of boring by Arcadis, April 2013
- MW-9 Approximate location of monitoring well by Arcadis (Abandoned in April 2015)
- VW-1 Approximate location of vapor extraction monitoring well by Arcadis (Abandoned in April 2015)
- Site boundary
- Idealized subsurface profile location



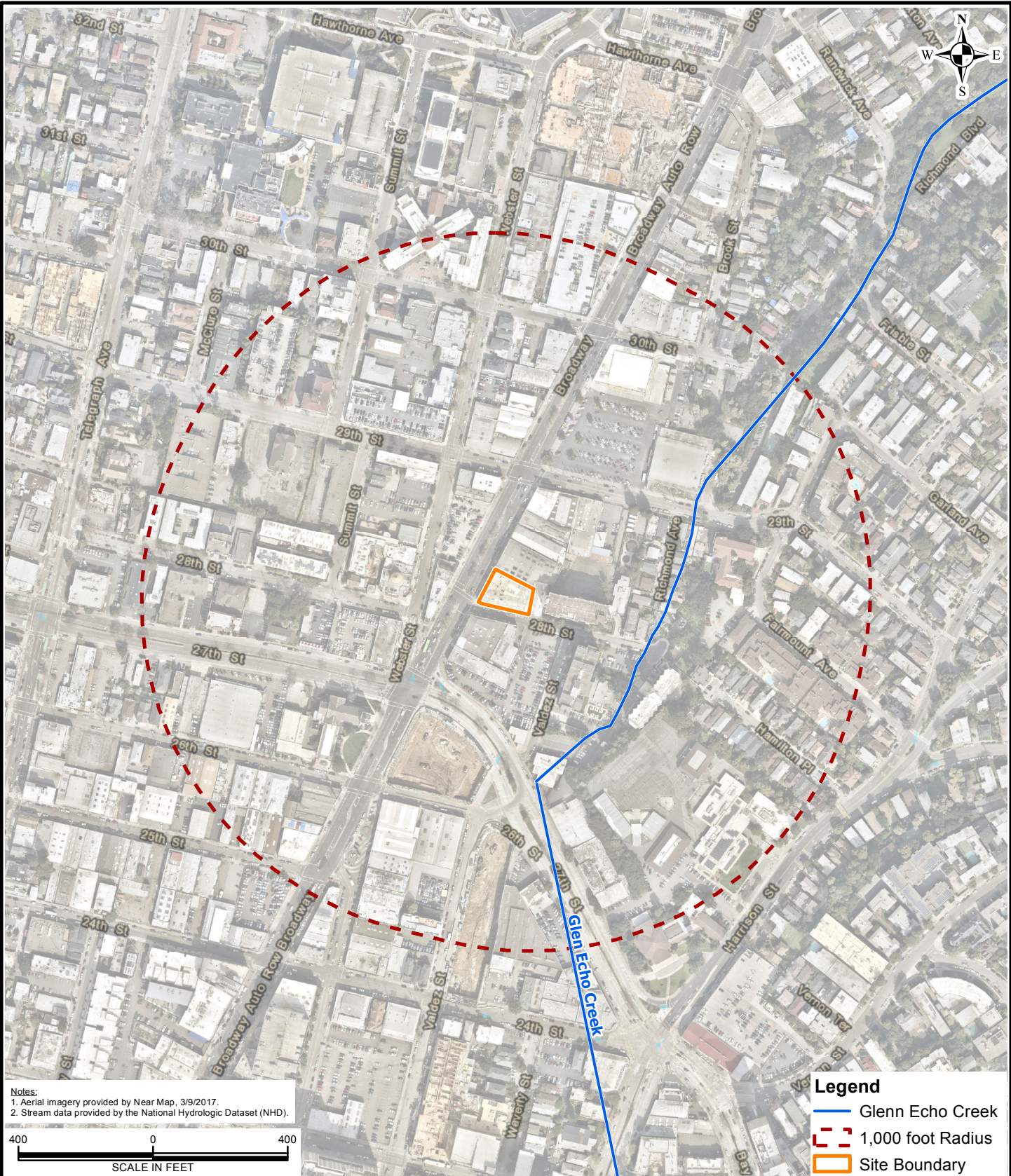
2800 BROADWAY
Oakland, California

SITE PLAN WITH PREVIOUS SAMPLING LOCATIONS

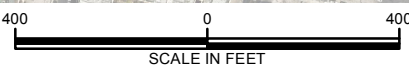
Date 08/08/17 | Project No. 770638301 | Figure 2

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Reference: © 2017 Microsoft Corporation, Bing



Notes:
 1. Aerial imagery provided by Near Map, 3/9/2017.
 2. Stream data provided by the National Hydrologic Dataset (NHD).



Legend

- Glenn Echo Creek
- - - 1,000 foot Radius
- Site Boundary

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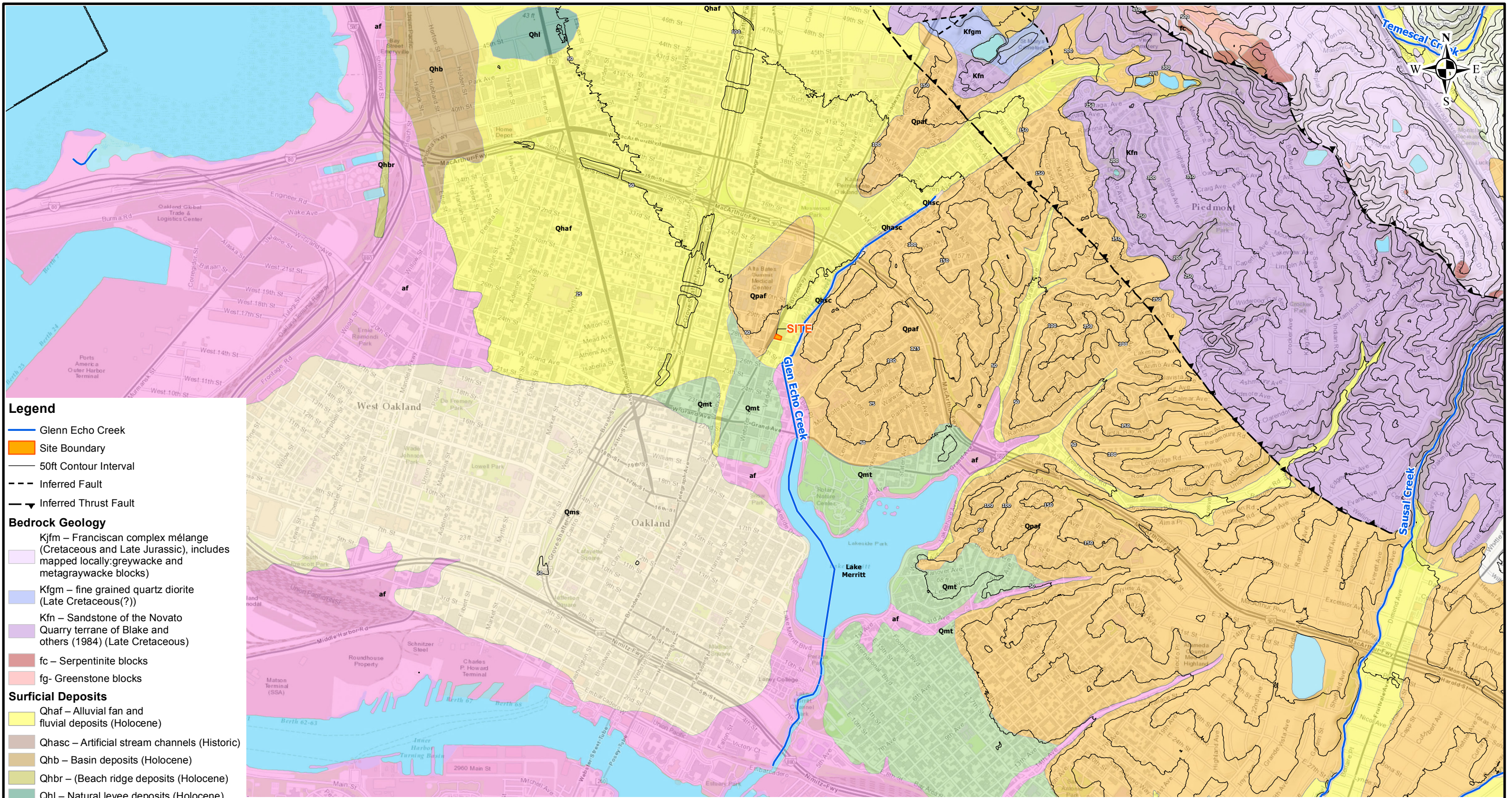
Langan Engineering & Environmental Services, Inc.
 Langan Engineering, Environmental, Surveying and
 Landscape Architecture, D.P.C.
 Langan International LLC
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Project
2800 BROADWAY
 OAKLAND
 ALAMEDA COUNTY CALIFORNIA

Drawing Title
**NEARBY SURFACE
 WATER BODIES**

Project No.
 770638301
 Date
 7/5/2017
 Scale
 1" = 400'
 Drawn By
 BJS

Figure
3



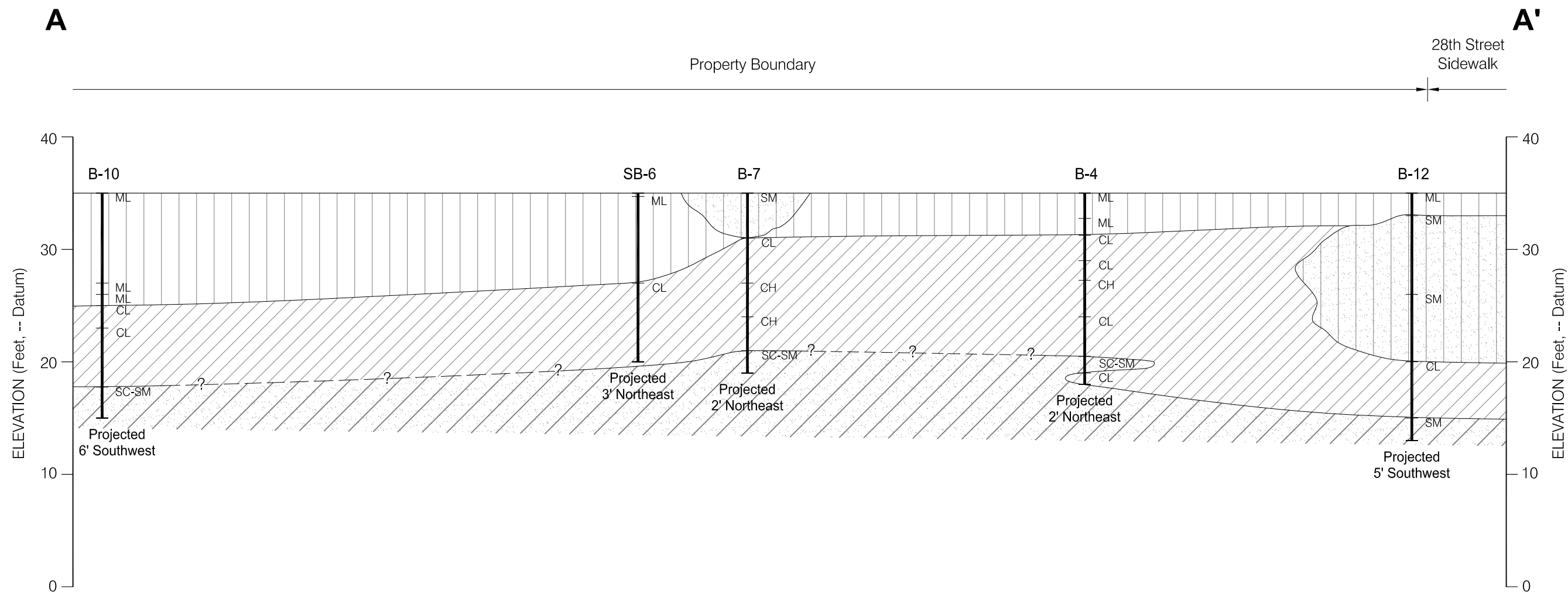
- Legend**
- Glenn Echo Creek
 - Site Boundary
 - 50ft Contour Interval
 - Inferred Fault
 - Inferred Thrust Fault
- Bedrock Geology**
- Kjfmc – Franciscan complex mélangé (Cretaceous and Late Jurassic), includes mapped locally: greywacke and metagraywacke blocks)
 - Kfgm – fine grained quartz diorite (Late Cretaceous(?))
 - Kfn – Sandstone of the Novato Quarry terrane of Blake and others (1984) (Late Cretaceous)
 - fc – Serpentinite blocks
 - fg- Greenstone blocks
- Surficial Deposits**
- Qhaf – Alluvial fan and fluvial deposits (Holocene)
 - Qhasc – Artificial stream channels (Historic)
 - Qhb – Basin deposits (Holocene)
 - Qhbr – (Beach ridge deposits (Holocene)
 - Qhl – Natural levee deposits (Holocene)
 - Qhsc – Stream channel deposits (Holocene)
 - Qms – Merritt sand (Holocene)
 - Qmt – Marine terrace deposits (Pleistocene)
 - Qpaf – Alluvial fan and fluvial deposits (Pleistocene)
 - Af – Artificial fill
 - Water



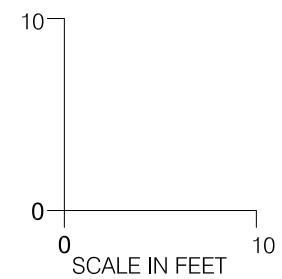
Notes:
 1. Geologic units based on the Geologic Map of the Oakland Metropolitan Area, Alameda County, California; R.W. Graymer, 2000.
 2. Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online
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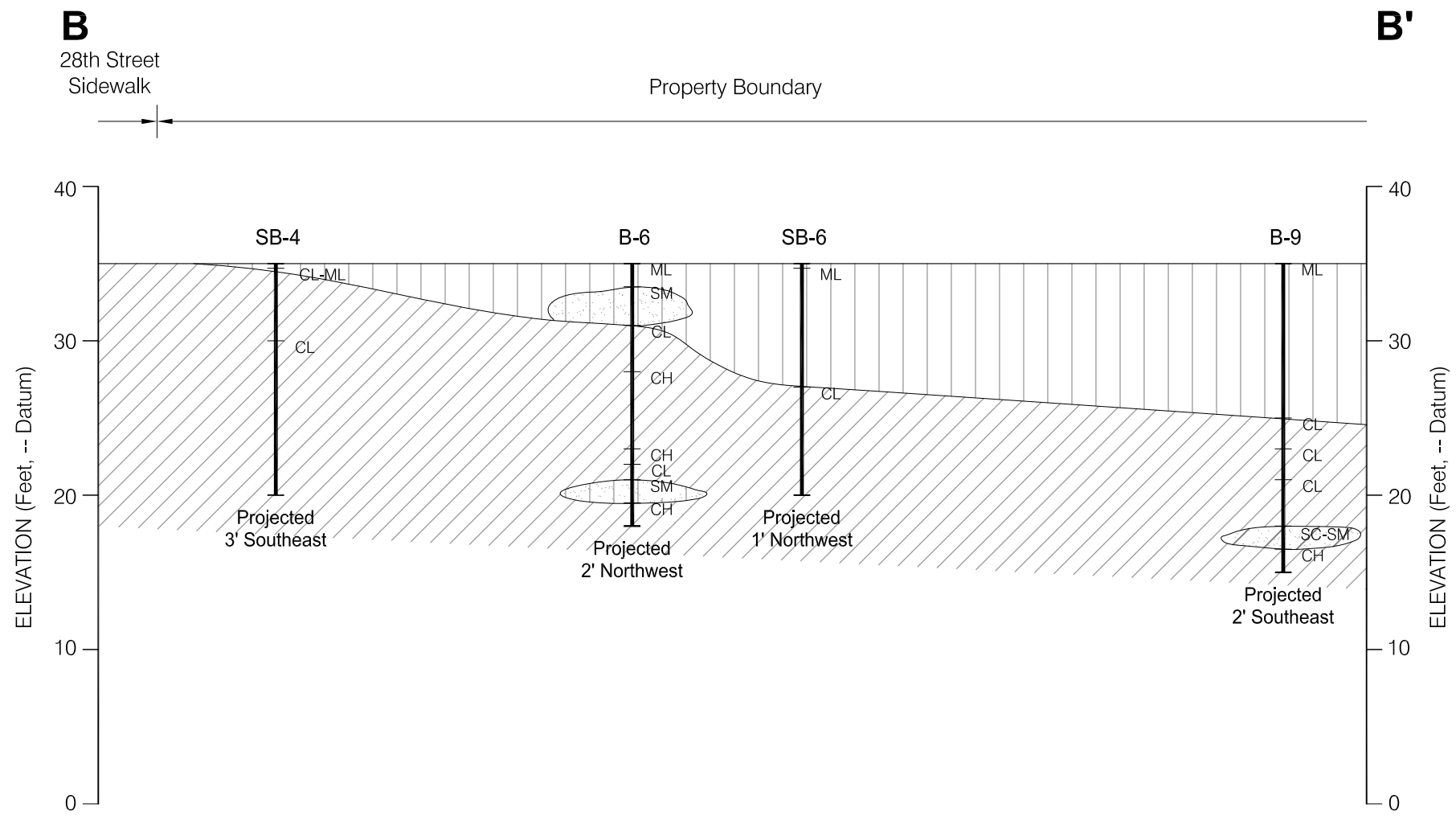


Notes:
 1. The above profile represents a generalized soil cross section interpreted from widely spaced borings. Soil deposits may vary in type, strength, and other important properties between points of exploration.

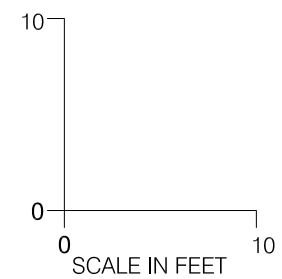


2800 BROADWAY Oakland, California		
IDEALIZED SUBSURFACE PROFILE A-A'		
Date 06/30/17	Project No. 770638301	Figure 5
LANGAN		

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Notes:
1. The above profile represents a generalized soil cross section interpreted from widely spaced borings. Soil deposits may vary in type, strength, and other important properties between points of exploration.
















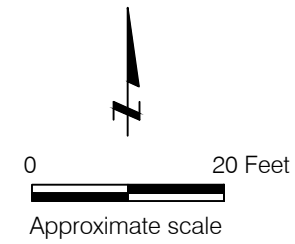
2800 BROADWAY Oakland, California		
IDEALIZED SUBSURFACE PROFILE B-B'		
Date 06/30/17	Project No. 770638301	Figure 6
LANGAN		

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EXPLANATION

- L-SB**  Approximate location of proposed soil boring by Langan
- L-MIP**  Approximate location of proposed MIP boring by Langan
- L-SV**  Approximate location of proposed soil-vapor probe by Langan
- L-MW**  Approximate location of proposed groundwater monitoring well by Langan
- B-1**  Approximate location of boring by ATC Cardno, September and November 2015
- SB-4**  Approximate location of boring by AEI, April 2015
- MIP-1**  Approximate location of boring by Arcadis, April 2013
- MW-9**  Approximate location of monitoring well by Arcadis (Abandoned in April 2015)
- VW-1**  Approximate location of vapor extraction monitoring well by Arcadis (Abandoned in April 2015)
- 100**  Approximate TPHg plume (µg/L) based on historical reports
- 1,000**  Approximate TCE plume (µg/L) based on historical reports
-  Sewer Utility Line (based on historical reports)
-  Site boundary



2800 BROADWAY
Oakland, California

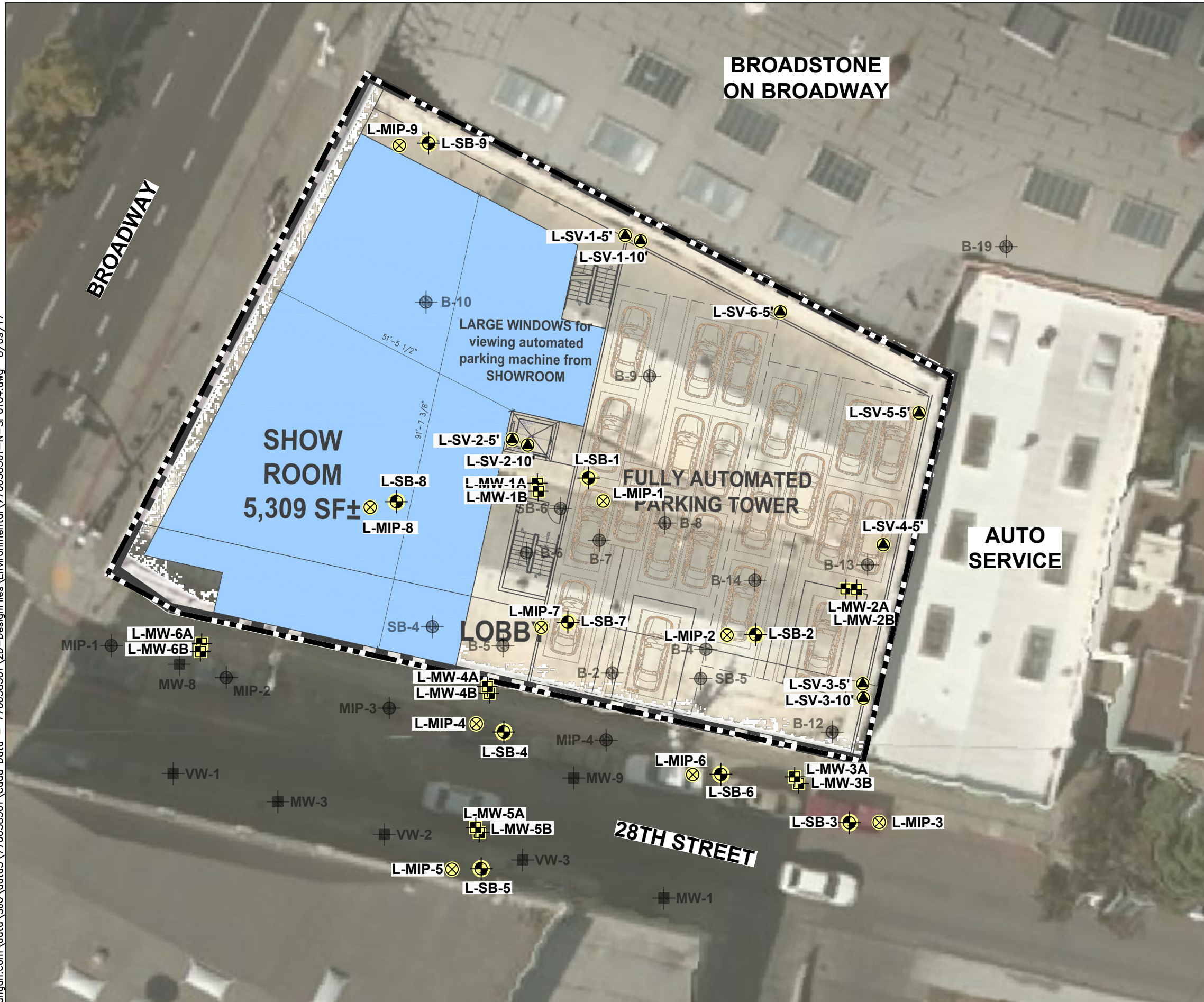
SITE PLAN WITH PREVIOUS AND PROPOSED SAMPLING LOCATIONS

Date 08/08/17 | Project No. 770638301 | Figure 7

LANGAN

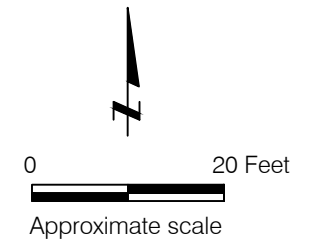
Reference: © 2017 Microsoft Corporation, Bing

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EXPLANATION

- L-SB** Approximate location of proposed soil boring by Langan
- L-MIP** Approximate location of proposed MIP boring by Langan
- L-SV** Approximate location of proposed soil-vapor probe by Langan
- L-MW** Approximate location of proposed groundwater monitoring well by Langan
- B-1** Approximate location of boring by ATC Cardno, September and November 2015
- SB-4** Approximate location of boring by AEI, April 2015
- MIP-1** Approximate location of boring by Arcadis, April 2013
- MW-9** Approximate location of monitoring well by Arcadis (Abandoned in April 2015)
- VW-1** Approximate location of vapor extraction monitoring well by Arcadis (Abandoned in April 2015)
- Site boundary



2800 BROADWAY
Oakland, California

**CONCEPTUAL DEVELOPMENT PLAN
OPTION 2 WITH PROPOSED SAMPLING LOCATIONS**

Date 08/08/17 | Project No. 770638301 | Figure 8

LANGAN

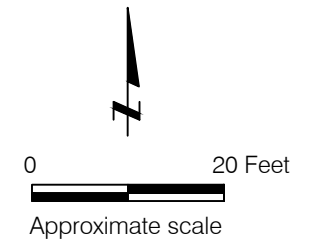
Reference: © 2017 Microsoft Corporation, Bing and "Option 2," Sheet A1.1, by LCA Architects, dated 05/12/17.

\\langan.com\data\SJO\data3\770638301\Cadd Data - 770638301\2D-DesignFiles\Environmental\770638301-N-SP0104.dwg 8/09/17



EXPLANATION

- L-SB** Approximate location of proposed soil boring by Langan
- L-MIP** Approximate location of proposed MIP boring by Langan
- L-SV** Approximate location of proposed soil-vapor probe by Langan
- L-MW** Approximate location of proposed groundwater monitoring well by Langan
- B-1** Approximate location of boring by ATC Cardno, September and November 2015
- SB-4** Approximate location of boring by AEI, April 2015
- MIP-1** Approximate location of boring by Arcadis, April 2013
- MW-9** Approximate location of monitoring well by Arcadis (Abandoned in April 2015)
- VW-1** Approximate location of vapor extraction monitoring well by Arcadis (Abandoned in April 2015)
- Site boundary



2800 BROADWAY
Oakland, California

**CONCEPTUAL DEVELOPMENT PLAN
OPTION 3 WITH PROPOSED SAMPLING LOCATIONS**

Date 08/08/17 | Project No. 770638301 | Figure 9

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Reference: © 2017 Microsoft Corporation, Bing and "Option 3," Sheet A1.1, by LCA Architects, dated 05/12/17.

APPENDIX A
HISTORICAL ANALYTICAL RESULTS TABLE

TABLE 1
Summary of Soil Laboratory Analytical Data - Organics
 2800, 2820, 2855 Broadway
 Oakland, CA

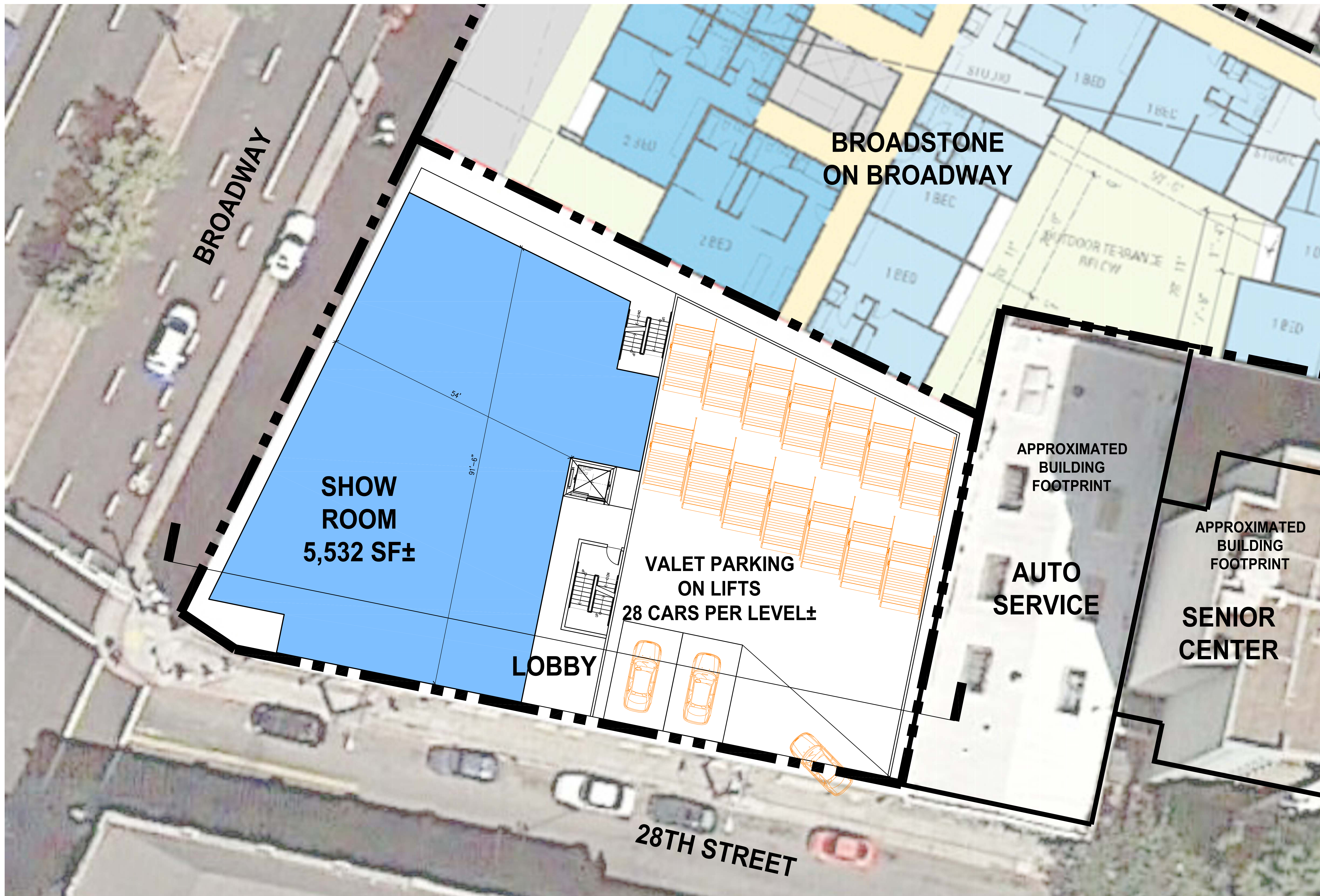
Sample ID	Sample Depth (ft bgs)	Sample Date	TPHg	TPHd	TPHo	Benzene	Toluene	Ethyl benzene	Total Xylenes	MTBE	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Naphthalene	Other VOCs
			(mg/kg)	(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
B20-12'	12	11/06/15	3.6	9.7	19	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
B20-16'	16	11/06/15	<0.250	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
B20-19'	19	11/06/15	<0.250	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
B20-24'	24	11/06/15	<0.250	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
B21-3'	3	11/06/15	40	680	3,100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
B22-8'	8	11/06/15	<0.250	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
B22-12'	12	11/06/15	<0.250	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
B22-16'	16	11/06/15	<0.250	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
B22-21'	21	11/06/15	<0.250	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
B23	na	11-/6/15	Collected groundwater sample only. No soil samples collected.											
ESL, Summary Table A (<9.8 feet)			100	100	100	44	2,900	3,300	2,300	23	190	460	1,200	Chloroform - 1,100; Trichloroethene - 460; Carbon tetrachloride - 110; *
ESL, Summary Table C (>9.8 feet)			500	110	500	44	2,900	3,300	2,300	23	190	460	1,200	Chloroform - 1,100; Trichloroethene - 460; Carbon tetrachloride - 110; *
Definitions/Abbreviations:						Notes:								
EPA -- Environmental Protection Agency						ESL, Summary Table A (<9.8 feet):								
TPHg -- Gasoline Range Organics ((GRO) C5-C12) by EPA 8015 Gas chromatograph (GC)						San Francisco Bay, Regional Water quality Control Board, <i>Environmental Screening Levels (ESL's)</i> , Summary Table A .								
TPHd -- Extractable fuel hydrocarbons ((EFC) C10 - C28) by EPA 8015 GC						Environmental Screening Levels (ESLs), <i>Shallow Soils (<3m bgs)</i> , Groundwater is Current or Potential Source of Drinking Water, Residential Land Use. December 2013.								
TPHo -- Extractable fuel hydrocarbons ((EFC) C24 - C36) by EPA 8015 GC						Source: http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml . Viewed December 9, 2015.								
mg/kg -- Milligrams per kilogram (equivalent to parts per million [ppm])						ESL, Summary Table C (>9.8 feet):								
µg/kg -- Micrograms per kilogram (equivalent to parts per billion [ppb])						San Francisco Bay, Regional Water quality Control Board, <i>Environmental Screening Levels (ESL's)</i> , Summary Table C .								
Total Xylenes -- Meta-, ortho-, and para-xylenes by EPA Method 8260B						Environmental Screening Levels (ESLs), <i>Deep Soils (>3m bgs)</i> , Groundwater is a Current or Potential Source of Drinking Water, Residential Land Use. December 2013.								
MTBE -- Methyl tertiary-butyl ether by EPA Test Method 8260B						Source: http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml . Viewed December 9, 2015.								
Ethanol -- Analyzed by EPA Test Method by 8260B														
bgs -- Below Ground Surface														
ft -- feet														
< -- Less than the laboratory reporting limit indicated.														
ND -- not detected above laboratory method detection limits														
J -- Estimated value between method detection limit and reporting limit.														
* -- "Other VOCs" ESLs are not listed in this table because they are not listed in the ESL table														
Results reported above the laboratory reporting limit (RL) are presented in bold font.														
Results reported above the ESL are highlighted in yellow														

TABLE 2
Summary of Groundwater Laboratory Analytical Data - Organics
 2800, 2820, 2855 Broadway
 Oakland, CA

Sample ID	Sample Date	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	cis-1,2-Dichloroethene	Trichloroethene	Naphthalene	Other VOCs
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Soil Borings													
B1-W	09/19/15	<50	<65	<130	<0.50	<0.50	<0.50	<1.0	1.6	<0.50	<0.50	<1.0	ND
B2-W	09/19/15	880,000	170,000	<7,500	150	3,000	6,500	27,000	<50	310	14,000	4,200	n-Butylbenzene - 1,900 sec-Butylbenzene - 460 Isopropylbenzene - 970 4-Isopropyltoluene - 530 N-Propylbenzene - 3,000 1,2,4-Trimethylbenzene - 18,000 1,3,5-Trimethylbenzene - 5,700 Vinyl acetate - 4,100
B3-W	09/19/15	<50	160	350	<0.50	<0.50	<0.50	<1.0	<0.50	0.79	32	<1.0	ND
B4	10/04/15	3,800	830	<100	25	0.77	40	6.5	<0.50	180	4,400	10	n-Butylbenzene - 14 sec-Butylbenzene - 4.7 1,2-Dichloroethane - 3.6 1,1-Dichloroethene - 0.85 trans-1,2-Dichloroethene - 1.0 Isopropylbenzene - 30 4-Isopropyltoluene - 7.4 N-Propylbenzene - 29 1,1,2-Trichloroethane - 6.1 1,2,4-Trimethylbenzene - 25 1,3,5-Trimethylbenzene - 15
B5	10/04/15	14,000	710	<110	56	1.5	7.5	6.0	<0.50	190	14,000	4.2	Acetone - 230 n-Butylbenzene - 7.5 sec-Butylbenzene - 7.1 Chloroform - 3.8 Chloromethane - 1.1 1,2-Dichloroethane - 1.0 1,1-Dichloroethene - 6.4 trans-1,2-Dichloroethene - 3.9 Isopropylbenzene - 52 4-Isopropyltoluene - 1.2 N-Propylbenzene - 5.5 Tetrachloroethene - 5.8 1,1,2-Trichloroethane - 5.6 1,2,4-Trimethylbenzene - 0.98 Vinyl acetate - 47
B6	10/04/15	<500	140	<110	<0.50	<0.50	<0.50	<1.0	<0.50	2.2	340	<1.0	ND
B7	10/04/15	340	270	<100	<0.50	<0.50	0.71	<1.0	0.90	4.8	460	<1.0	Dichlorobromomethane - 4.6 Isopropylbenzene - 0.73 1,2,4-Trimethylbenzene - 0.64
B8	10/04/15	<50	170	<100	<0.50	<0.50	<0.50	<1.0	1.1	12	1,900	<1.0	Chloroform - 1.2 trans-1,2-Dichloroethene - 0.72 Tetrachloroethene - 0.87 1,1,2-Trichloroethane - 0.70
B9	10/04/15	<50	200	<110	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	36	<1.0	ND
B10	10/04/15	51	320	<100	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	17	<1.0	ND
B11	10/04/15	<50	480	460	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	Carbon tetrachloride - 34 Chloroform - 8.3
B-12	10/10/15	12,800	--	--	6.9	1.6	59.9	29.5	--	9.4	121	54.3	n-Butylbenzene - 13.8 sec-Butylbenzene - 9.7 Isopropylbenzene - 40.4 p-Isopropyltoluene - 14.5 n-Propylbenzene - 60.6 1,2,4-Trimethylbenzene - 240 1,3,5-Trimethylbenzene - 110
B-13	10/10/15	3,550	--	--	<12.5	<12.5	<12.5	<25	--	<12.5	2,800	<12.5	ND
B-14	10/10/15	7,800	--	--	<25.0	<25.0	<25.0	<50.0	--	26.1	6,160	<25.0	ND
B-15	11/05/15	<50	120	<500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
B-16	11/05/15	<50	<50	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Carbon Tetrachloride - 4.8 Chloroform - 9.5
B-17	11/05/15	<50	95	310	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Carbon Tetrachloride - 1.9
B-18	11/05/15	<50	190	1,000	<0.50	<0.50	<0.50	<0.50	0.58	<0.50	<0.50	<0.50	Carbon Tetrachloride - 0.8
B-19	11/06/15	<50	<150	<750	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	7.9	<0.50	ND
B-20	11/06/15	<50	640	1,800	<0.50	<0.50	<0.50	<0.50	<0.50	0.72	14	<0.50	ND
B-21	11/06/15	5,500	1,100	880	120	42	83	210	<5.0	<5.0	28	13	2-Butanone (MEK) - 64 2-Hexanone - 10 Isopropylbenzene - 26 n-Propyl benzene - 21 1,2,4-Trimethylbenzene - 130 1,3,5-Trimethylbenzene - 39
B-22	11/06/15	75	420	3,400	<1.2	<1.2	<1.2	<1.2	<1.2	3.3	39	<1.2	ND
B-23	11/06/15	800	160	<500	16	3.2	3.1	<2.5	<2.5	4.7	79	<2.5	Isopropylbenzene - 6.2 n-Propyl benzene - 2.5 1,3,5-Trimethylbenzene - 6.8
ESL, Summary Table A (<9.8 feet)		100	100	100	1	40	30	20	5	6	5	6.1	Acetone - 1,500; Carbon tetrachloride - 0.5; Chloroform - 80; Chloromethane - 130; 1,2-Dichloroethane - 0.5; 1,1-Dichloroethene - 6; trans-1,2-Dichloroethene - 10; 2-Butanone (MEK) - 4,900; Tetrachloroethene - 5; 1,1,2-Trichloroethane - 5 Trichloroethene - 5; *

<p>Definitions/Abbreviations:</p> <p>EPA -- Environmental Protection Agency</p> <p>TPHg -- Gasoline Range Organics (GRO) C5-C12 by EPA 8015 Gas chromatograph (GC)</p> <p>TPHd -- Extractable fuel hydrocarbons (EFC) C10 - C28 by EPA 8015 GC</p> <p>TPHo -- Extractable fuel hydrocarbons (EFC) C24 - C36 by EPA 8015 GC</p> <p>µg/kg -- Micrograms per kilogram (equivalent to parts per billion [ppb])</p> <p>Total Xylenes -- Meta-, ortho-, and para-xylenes by EPA Method 8260B</p> <p>MTBE -- Methyl tertiary-butyl ether by EPA Test Method 8260B</p> <p>Ethanol -- Analyzed by EPA Test Method by 8260B</p> <p>bgs -- Below Ground Surface</p> <p>ft -- feet</p> <p>< -- Less than the laboratory reporting limit indicated.</p> <p>ND -- not detected above laboratory method detection limits</p> <p>J -- Estimated value between method detection limit and reporting limit.</p> <p>* -- "Other VOCs" ESLs are not listed in this table because they are not listed in the ESL tables.</p> <p>Results reported above the laboratory reporting limit (RL) are presented in bold font.</p> <p>Results reported above the ESL are highlighted in yellow</p>	<p>Notes:</p> <p>ESL, Summary Table A (<9.8 feet): San Francisco Bay, Regional Water quality Control Board, <i>Environmental Screening Levels (ESL's), Summary Table A</i>. Environmental Screening Levels (ESLs), Shallow Soils (<3m bgs), Groundwater is Current or Potential Source of Drinking Water, Residential Land Use. December 2013. Source: http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml. Viewed December 9, 2015.</p> <p>ESL, Summary Table C (>9.8 feet): San Francisco Bay, Regional Water quality Control Board, <i>Environmental Screening Levels (ESL's), Summary Table C</i>. <i>Environmental Screening Levels (ESLs), Deep Soils (>3m bgs), Groundwater is a Current or Potential Source of Drinking Water</i>, Residential Land Use. December 2013. Source: http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml. Viewed December 9, 2015.</p>
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APPENDIX B
CONCEPTUAL SITE DEVELOPMENT PLANS

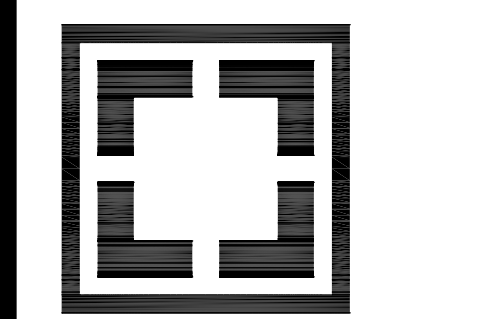
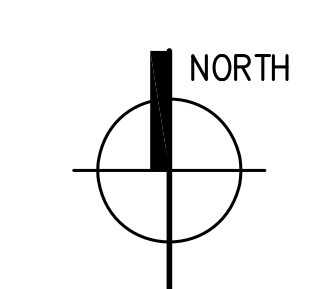
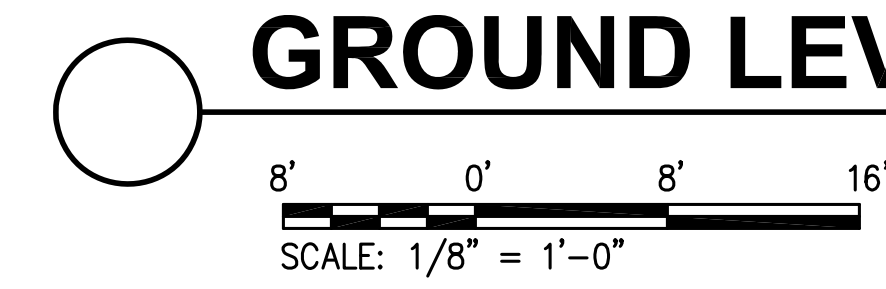


OPTION 1

PARKING PROVIDED:
RESIDENTIAL UNITS:
SHOWROOM:

258 STALLS±
30 UNITS±
5,532 SF±

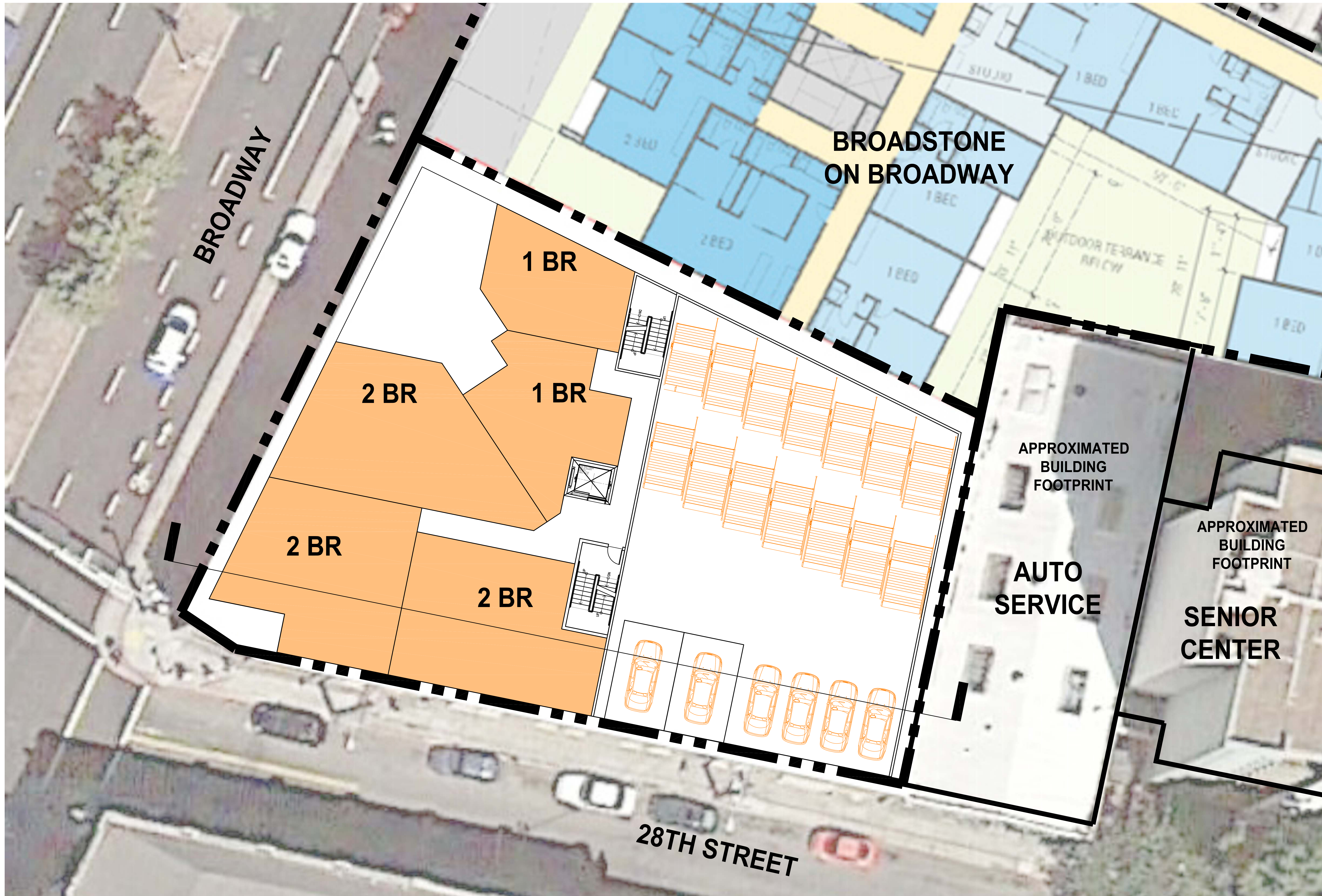
CONCEPTUAL GROUND LEVEL PLAN



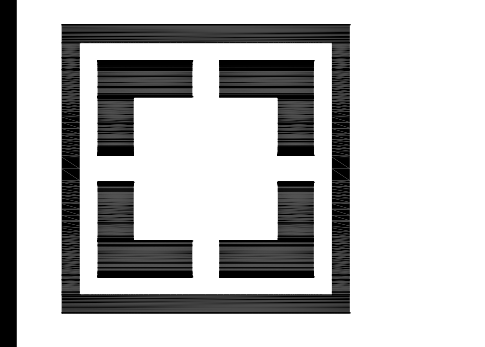
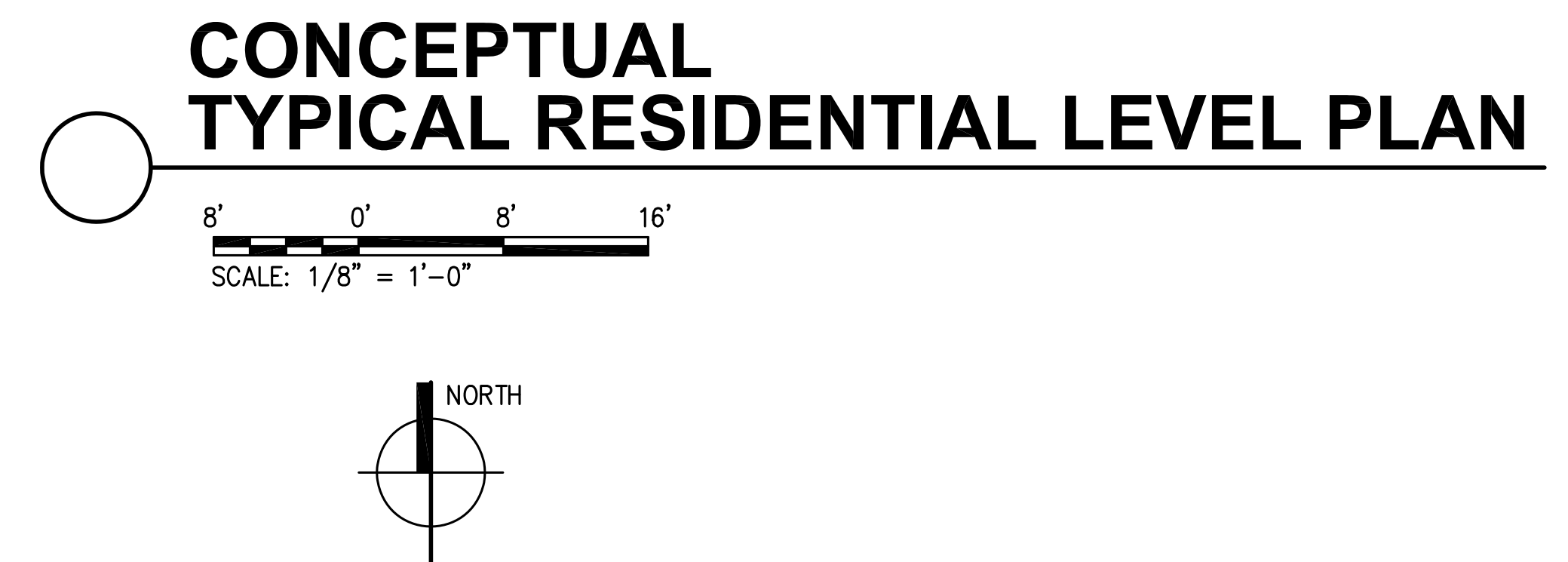
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CONCEPTUAL GROUND LEVEL PLAN

SCALE:	
DATE:	5 / 11 / 17
REVISIONS:	



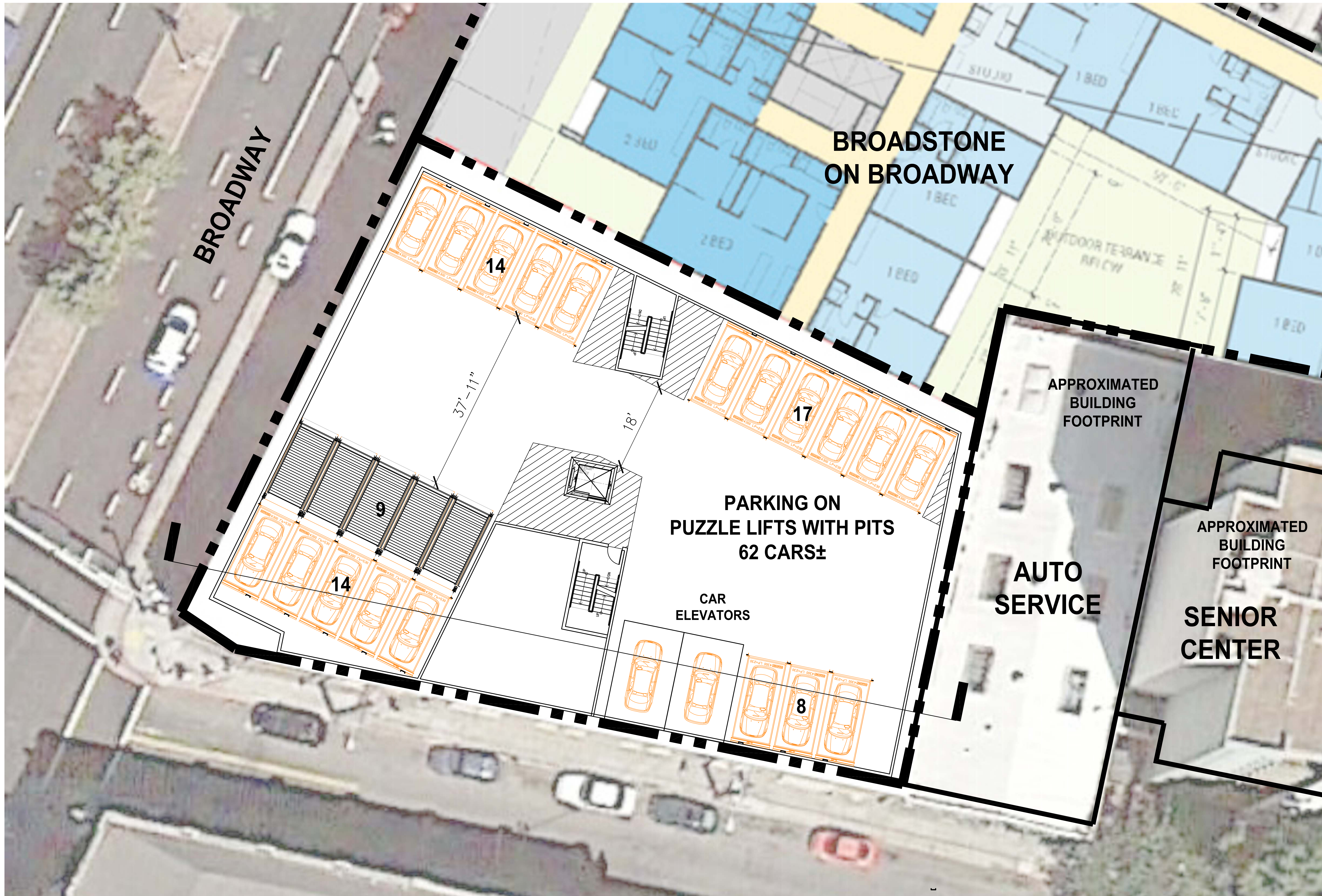
OPTION 1



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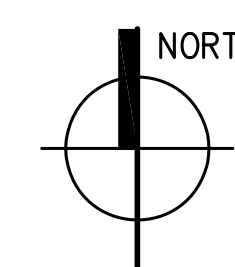
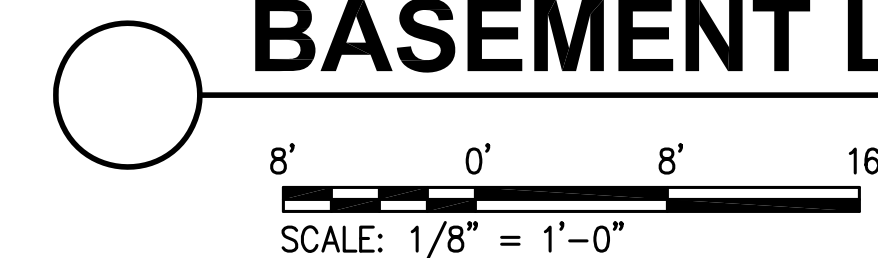
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SCALE: _____
 DATE: 5 / 11 / 17
 REVISIONS: _____

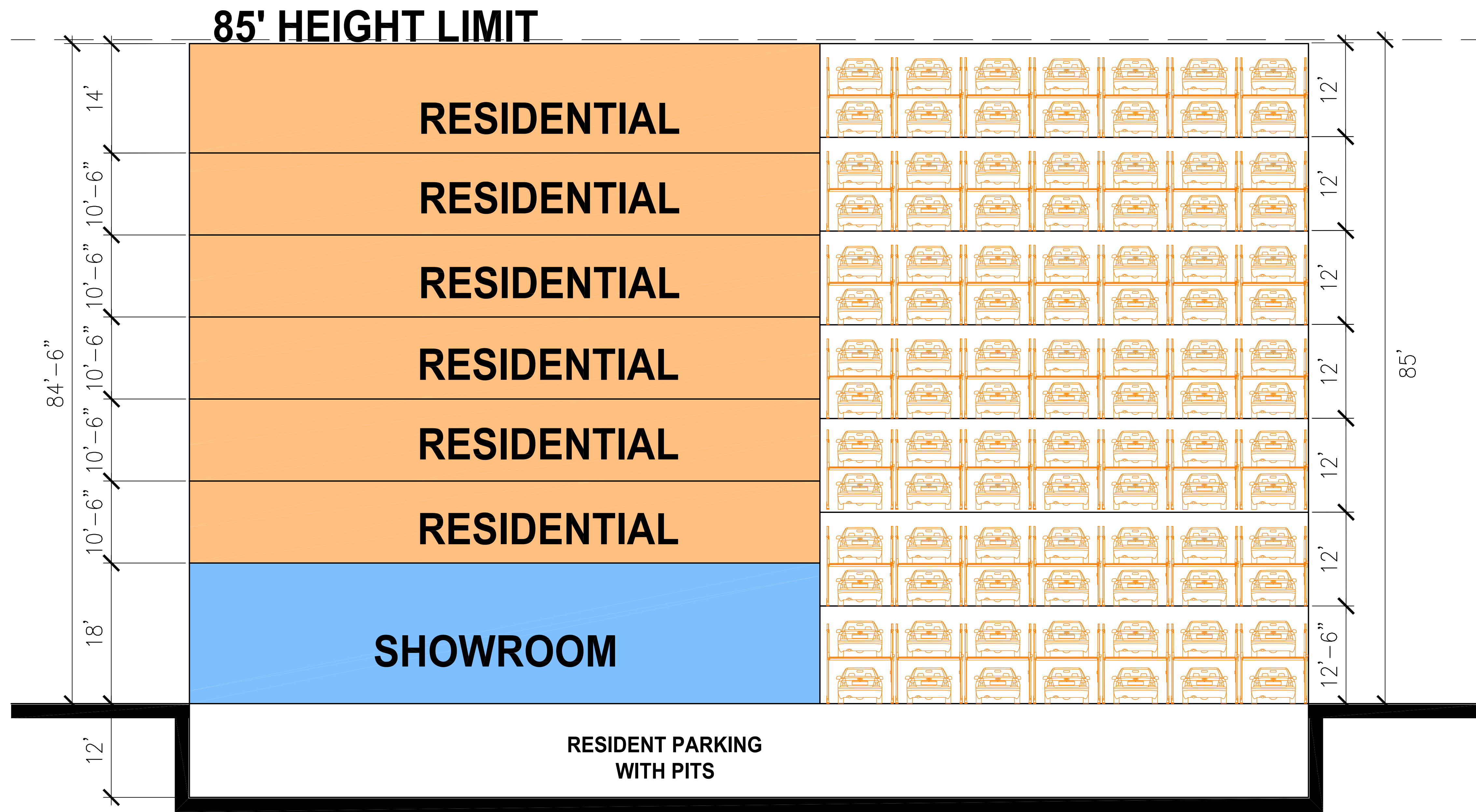


OPTION 1

CONCEPTUAL BASEMENT LEVEL PLAN



OPTION 1



○ **CONCEPTUAL SECTION**

8' 0' 8' 16'

SCALE: 1/8" = 1'-0"

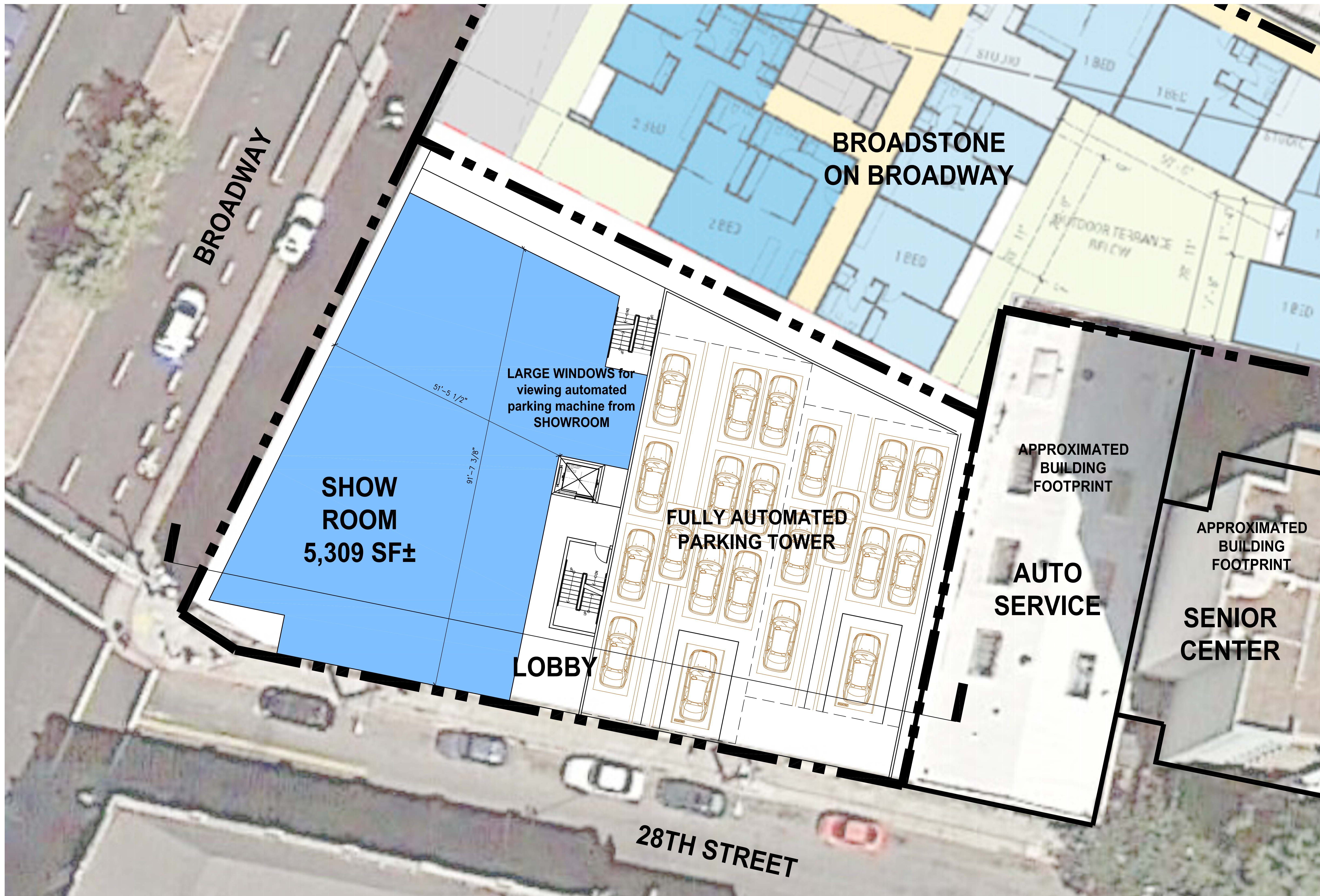
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CONCEPTUAL SECTION

SCALE: _____
 DATE: 5 / 11 / 17

REVISIONS: _____

PROJECT NO. 14062
A2
 SHEET OF _____

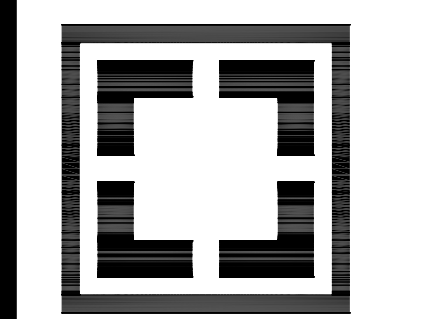
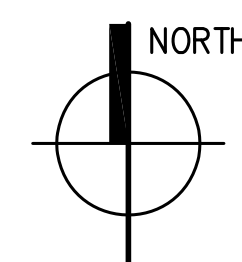
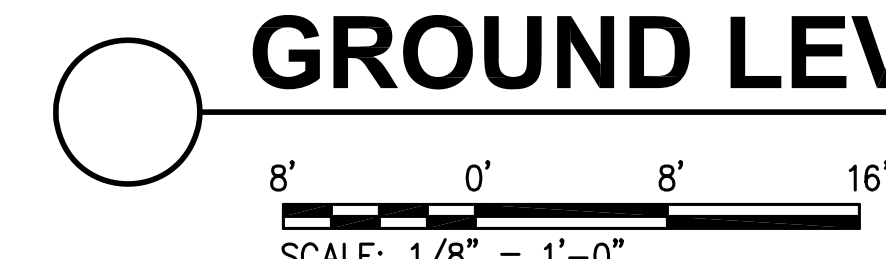


OPTION 2

PARKING PROVIDED:
RESIDENTIAL UNITS:
SHOWROOM:

196 STALLS±
38 UNITS±
5,309 SF±

CONCEPTUAL GROUND LEVEL PLAN



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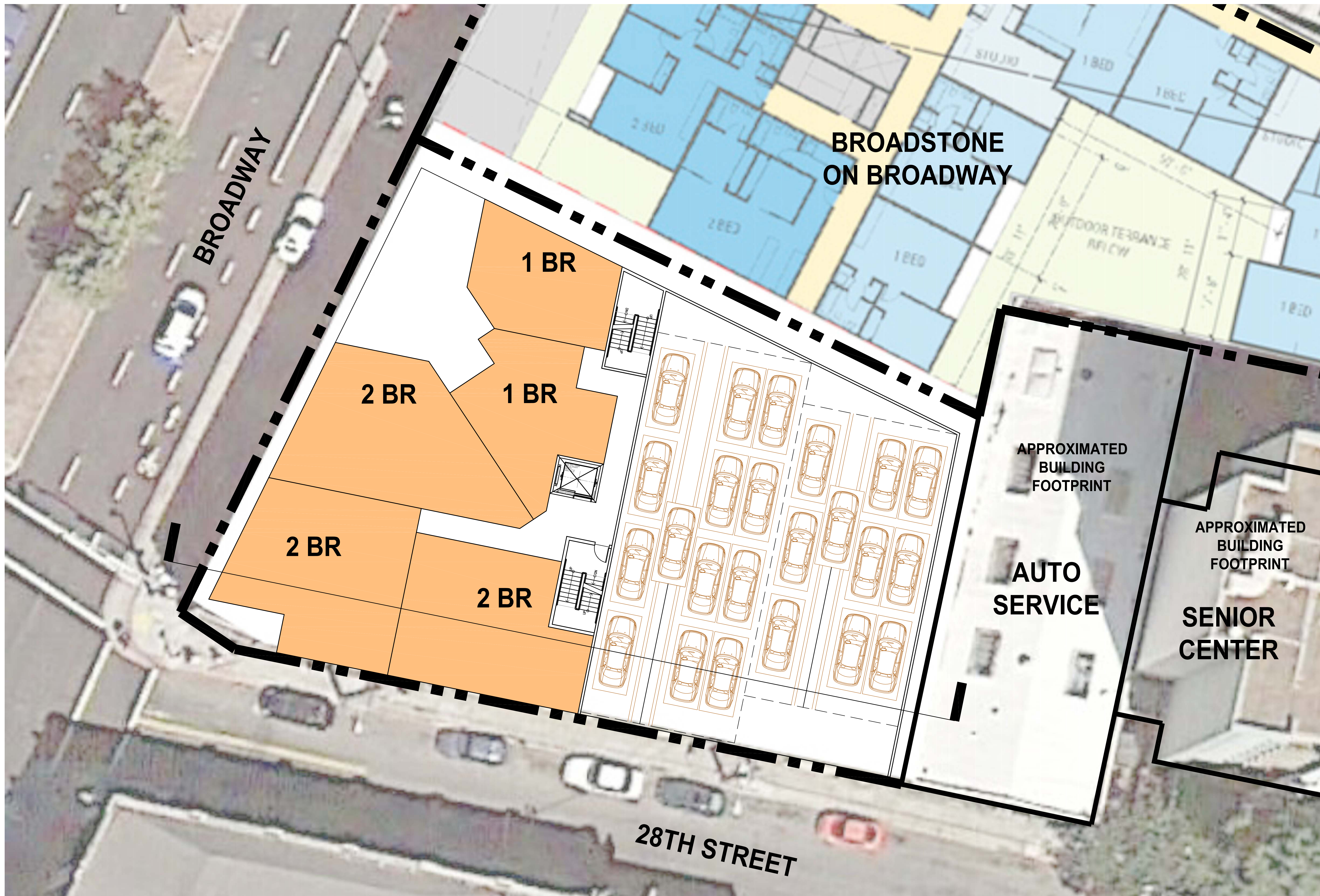
**CONCEPTUAL
 GROUND
 LEVEL PLAN**

SCALE:
 DATE: 5 / 12 / 17

REVISIONS:

PROJECT NO. 14062

A1.1
 SHEET OF



OPTION 2

**CONCEPTUAL
TYPICAL RESIDENTIAL LEVEL PLAN**

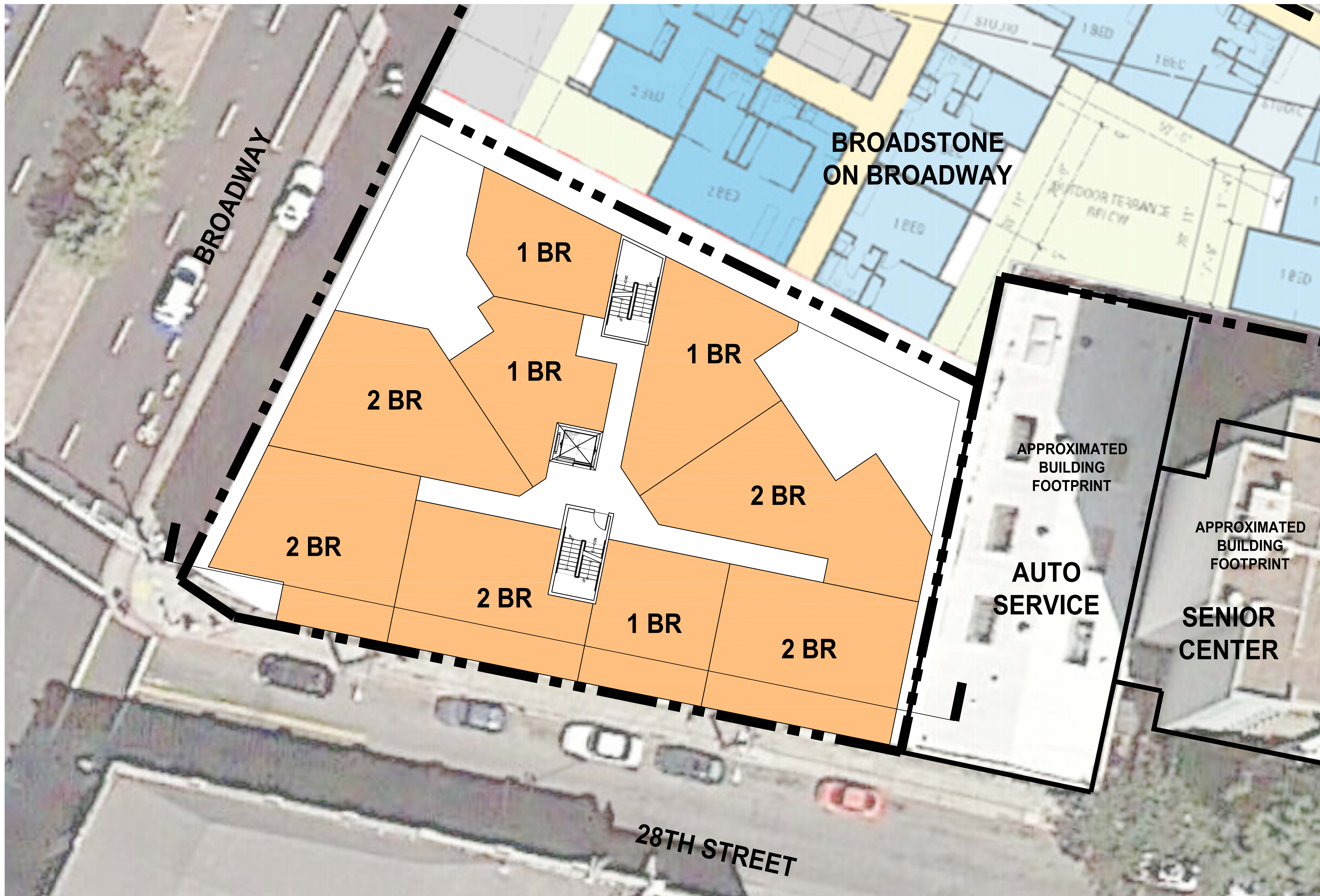
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SCALE: 1/8" = 1'-0"

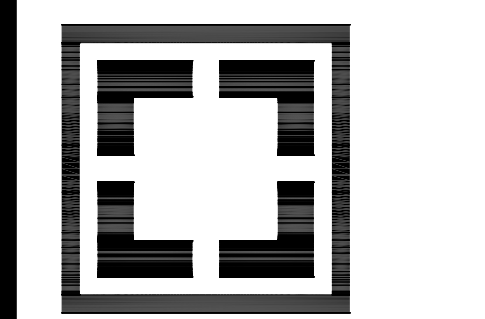
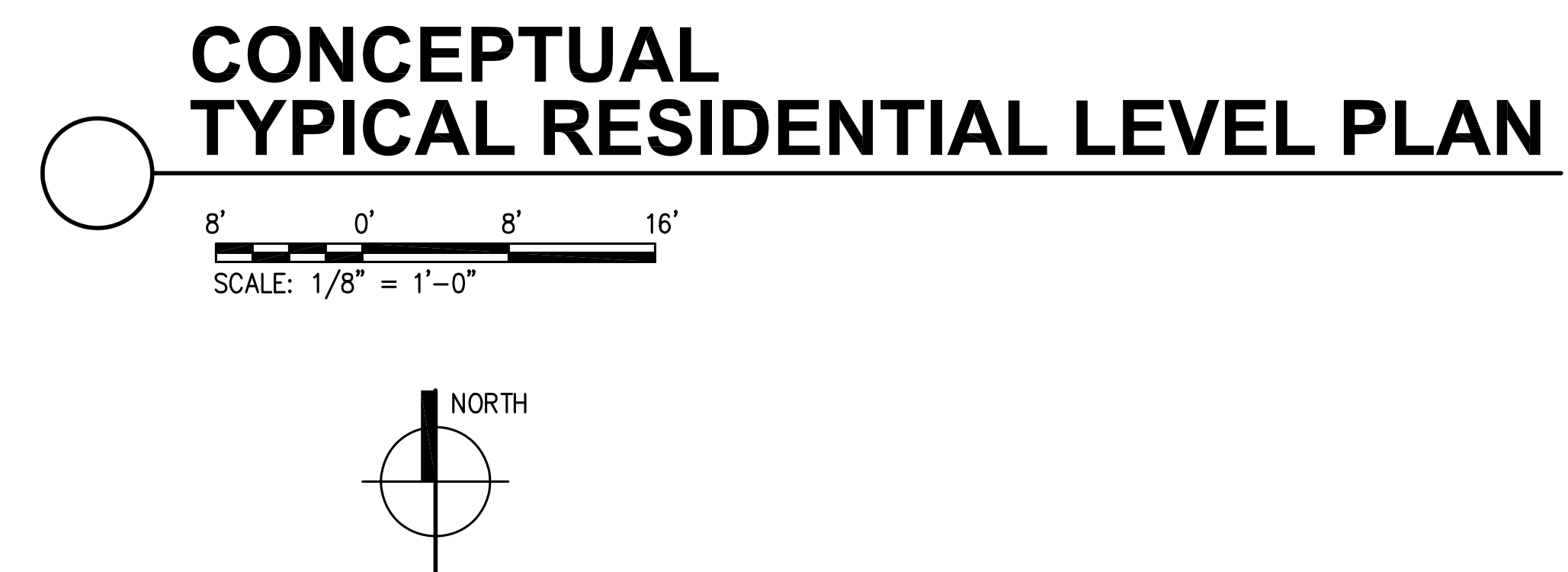
NORTH

LCA ARCHITECTS
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 FOR ACCURACY OF CONCEPTUAL INFORMATION
 OR OF INFORMATION SUPPLIED BY OTHERS.

CONCEPTUAL TYPICAL RESIDENTIAL LEVEL
SCALE:
DATE: 5 / 12 / 17
REVISIONS:
PROJECT NO. 14062
A1.2
SHEET OF



OPTION 2



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RESTRICTED ARCHITECTURAL DRAWINGS
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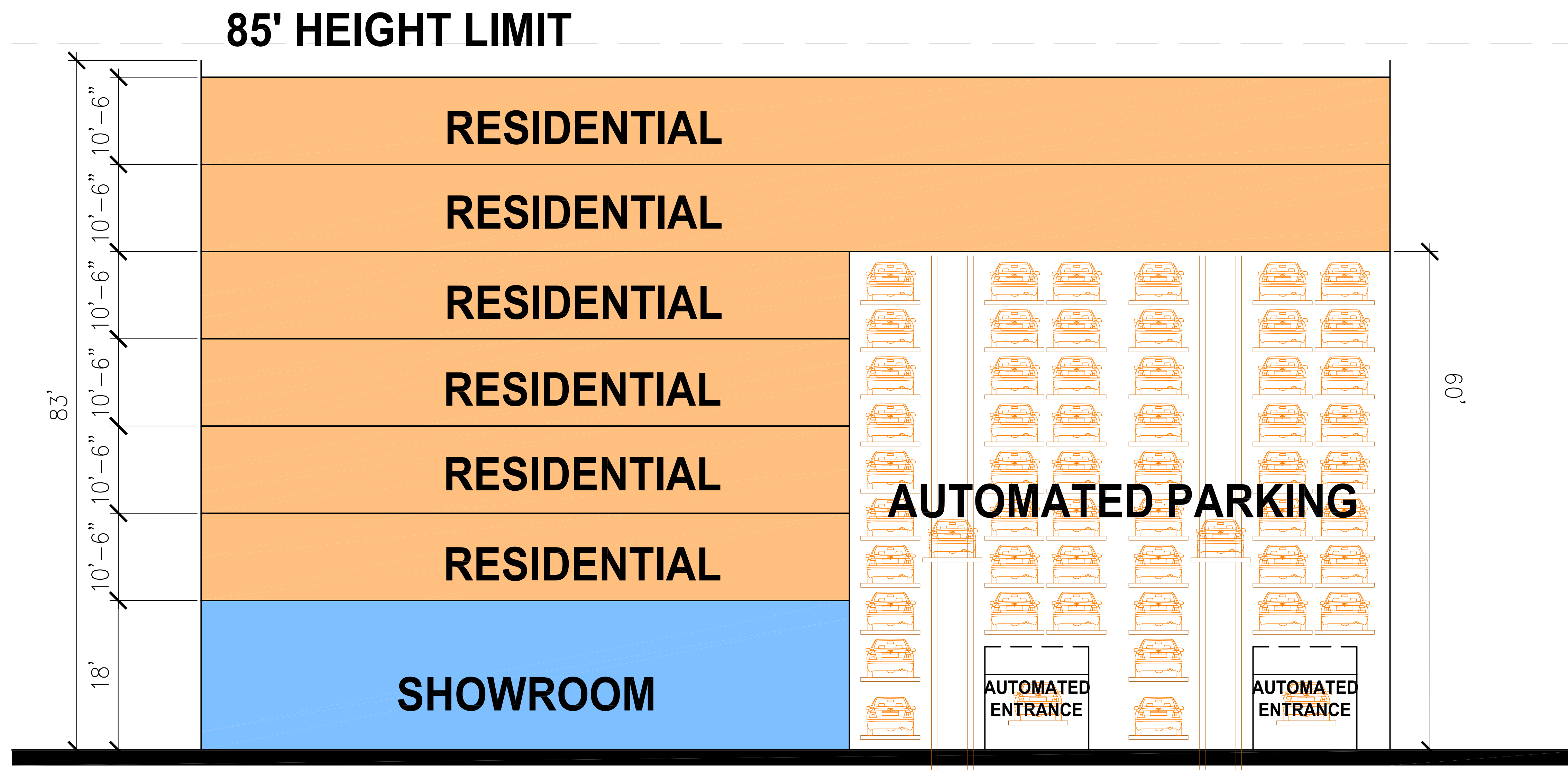
CONCEPTUAL
TYPICAL
RESIDENTIAL
LEVEL

SCALE:
DATE: 5 / 12 / 17

REVISIONS:

PROJECT NO. 14062
A1.3
SHEET OF

OPTION 2

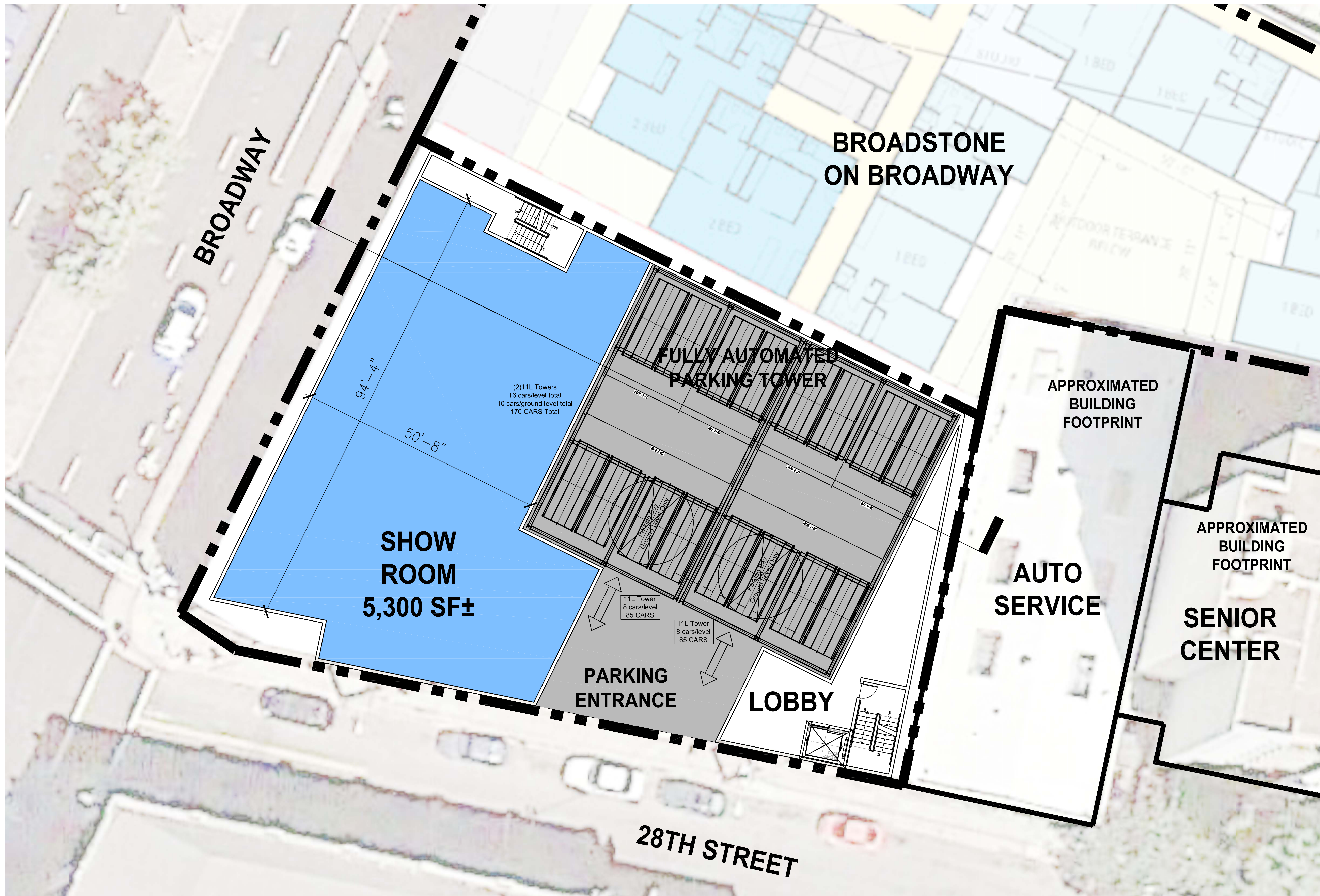


○ **CONCEPTUAL SECTION**
 SCALE: 1/8" = 1'-0"

LCA ARCHITECTS
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CONCEPTUAL SECTION

SCALE:
 DATE: 5 / 12 / 17
 REVISIONS:

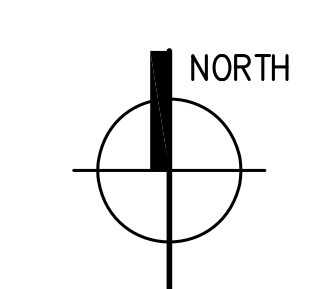
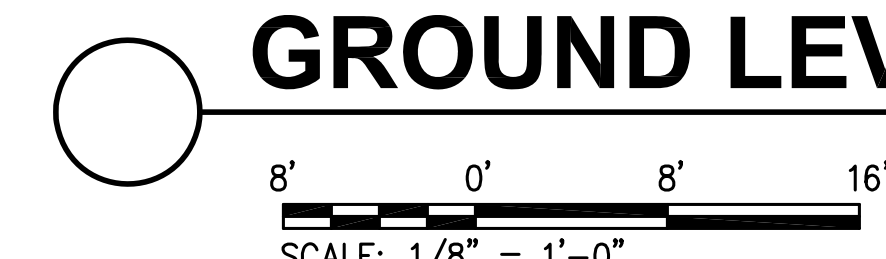


OPTION 3

PARKING PROVIDED:
RESIDENTIAL UNITS:
SHOWROOM:

170 STALLS±
36 UNITS±
5,300 SF±

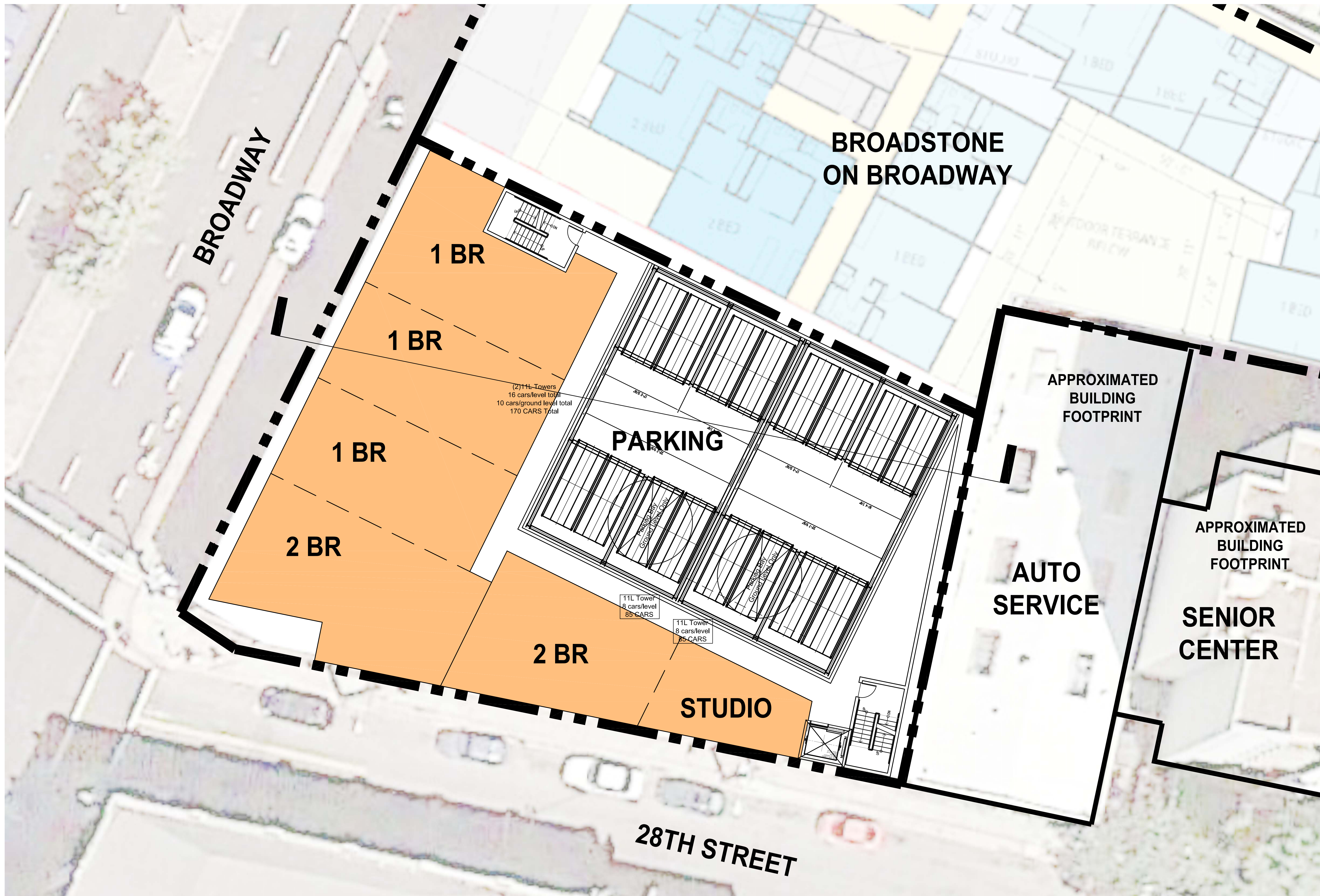
CONCEPTUAL GROUND LEVEL PLAN



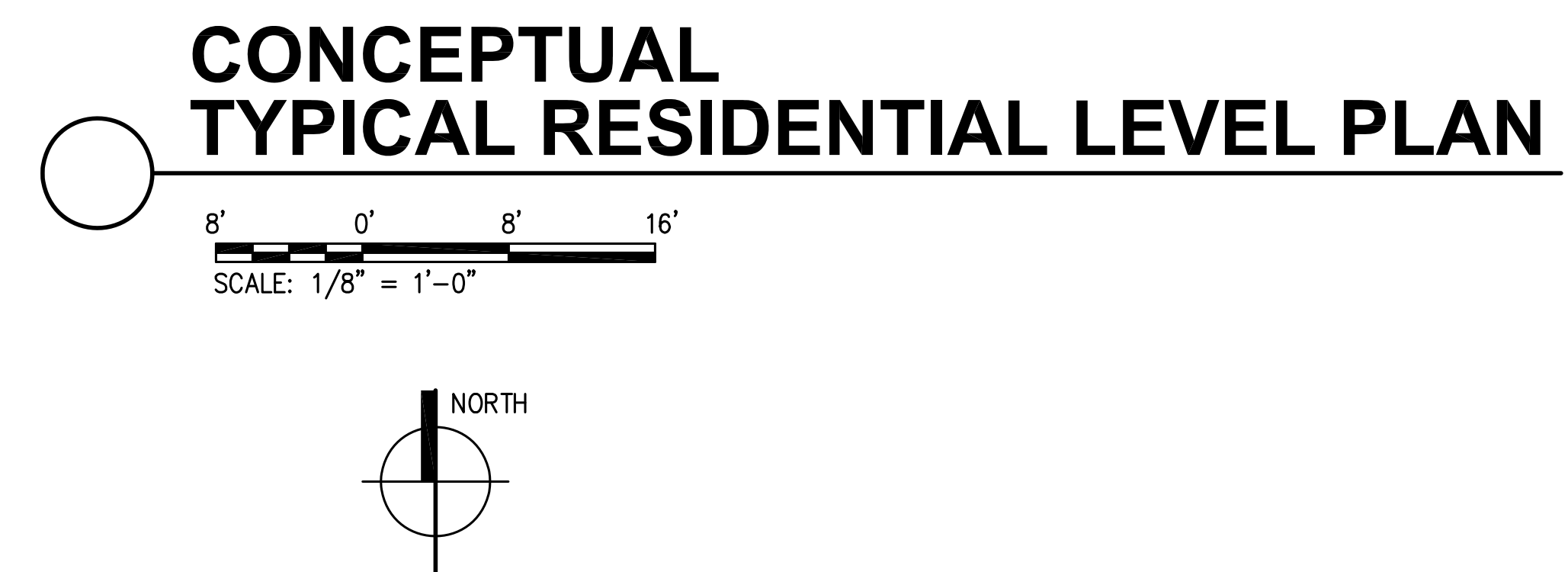
LCA ARCHITECTS
 RESTRICTED ARCHITECTURAL DRAWINGS
 THE INFORMATION, PLANS, DETAILS, NOTES AND ARRANGEMENTS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND MAY NOT BE REPRODUCED, PARAPHRASED OR IN ANY PART WITHOUT THE EXPRESSED WRITTEN PERMISSION OF LCA ARCHITECTS.
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CONCEPTUAL GROUND LEVEL PLAN

SCALE:
 DATE: 5 / 12 / 17
 REVISIONS:

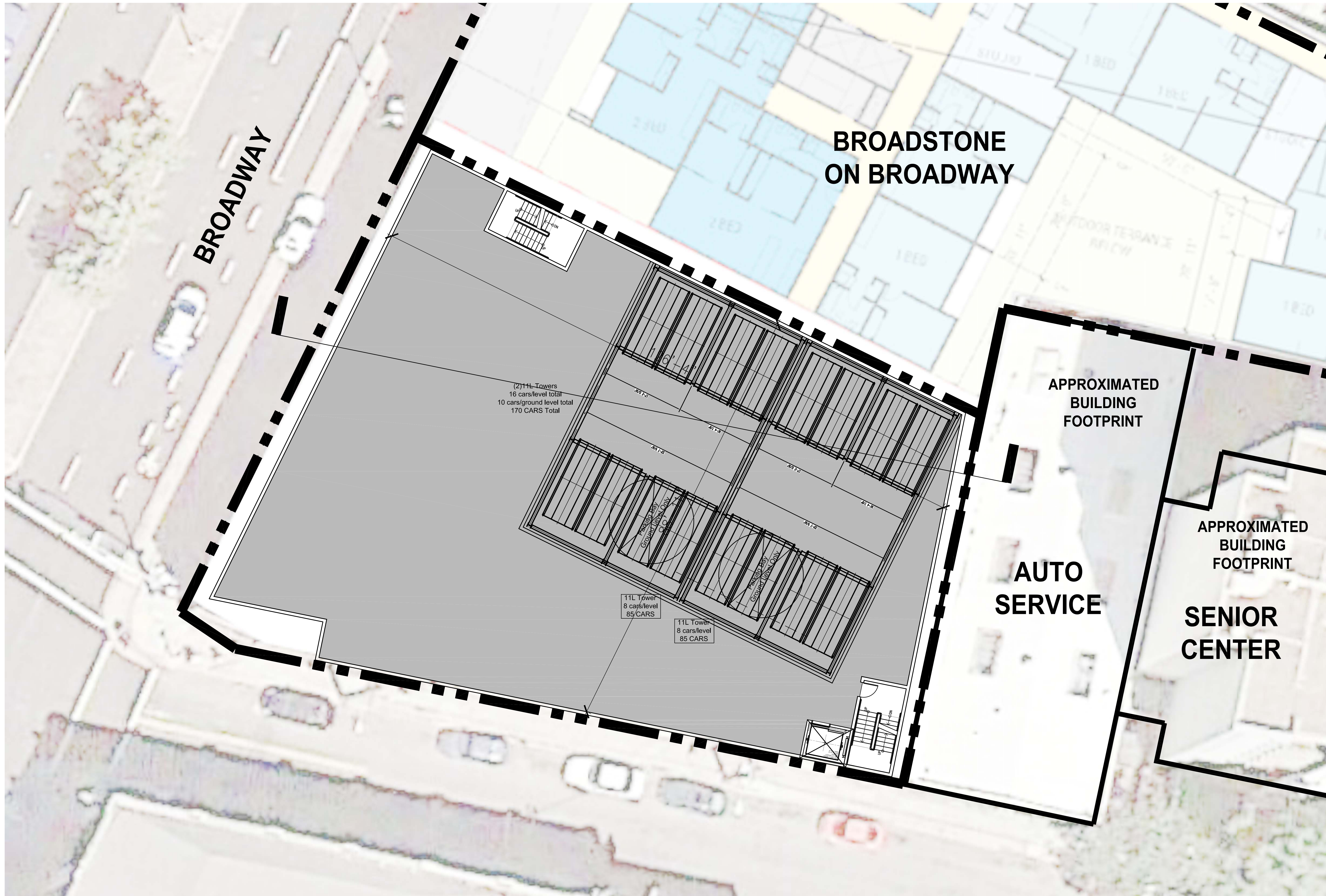


OPTION 3



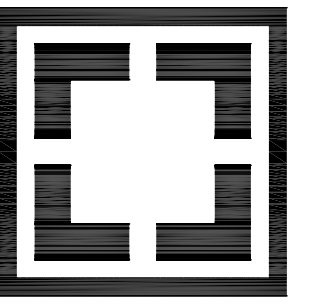
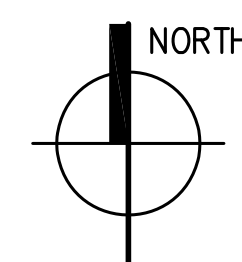
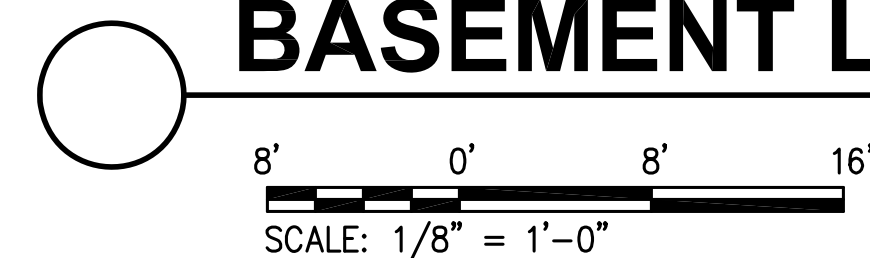
LCA ARCHITECTS
 RESTRICTED ARCHITECTURAL DRAWINGS
 THE INFORMATION PLANS, DETAILS, NOTES AND ARRANGEMENTS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND MAY NOT BE REPRODUCED, PARALLAID OR IN PART WITHOUT THE EXPRESSED WRITTEN PERMISSION OF LCA ARCHITECTS. CHANGES NOTED AS PERMITTED, CORRECTIVE AND/OR CONCEPT CONTAIN INFORMATION THAT IS CONFIDENTIAL AND SUBJECT TO VERIFICATION AND/OR CHANGE. THE ARCHITECT MAKES NO CLAIM FOR ACCURACY OF CONCEPTUAL INFORMATION OR OF INFORMATION SUPPLIED BY OTHERS.

CONCEPTUAL TYPICAL RESIDENTIAL LEVEL
SCALE:
DATE: 3 / 22 / 17
REVISIONS:
PROJECT NO. 14062
A1.2
SHEET OF



OPTION 3

CONCEPTUAL BASEMENT LEVEL PLAN



LCA ARCHITECTS
 RESTRICTED ARCHITECTURAL DRAWING
 THE INFORMATION PLANS, DETAILS, NOTES AND ARRANGEMENTS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND MAY NOT BE REPRODUCED, PARAPHRASED OR IN PART REPRODUCED WITHOUT THE WRITTEN PERMISSION OF LCA ARCHITECTS. CHANGES NOTED AS PERMITTED, CONTRACT AND/OR CONCEPT CONTAIN INFORMATION THAT IS CONFIDENTIAL AND SUBJECT TO VERIFICATION AND/OR CHANGE. THE ARCHITECT MAKES NO CLAIM FOR ACCURACY OF CONCEPTUAL INFORMATION OR OF INFORMATION SUPPLIED BY OTHERS.

CONCEPTUAL BASEMENT LEVEL PLAN

SCALE:
 DATE: 3 / 22 / 17

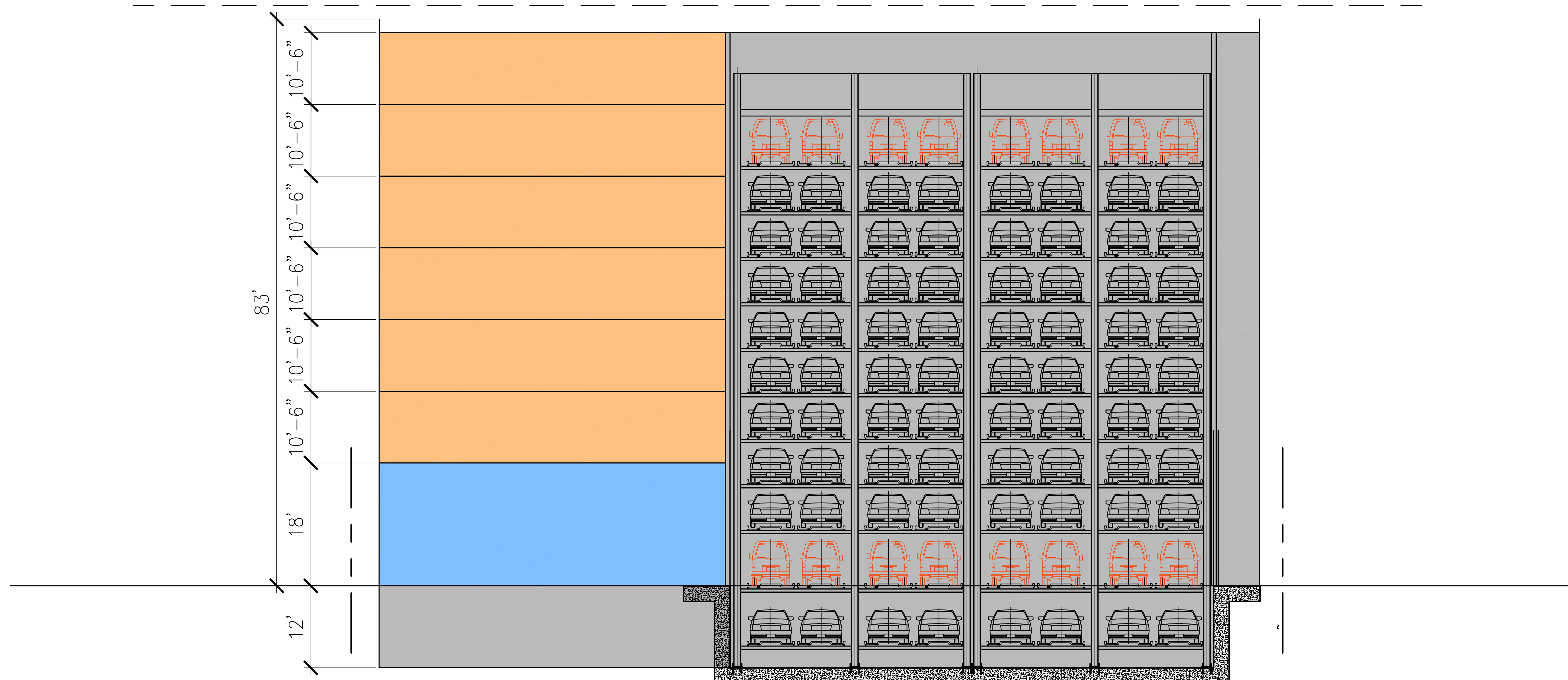
REVISIONS:

PROJECT NO. 14062

A1.3

SHEET OF

OPTION 3



○ **CONCEPTUAL SECTION**
 8' 0' 8' 16'
 SCALE: 1/8" = 1'-0"

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 WRITTEN PERMISSION OF LCA ARCHITECTS.
 DIMENSIONS NOTED AS PRELIMINARY, CONCEPTUAL,
 AND/OR CONCEPT CONTAIN INFORMATION THAT
 IS CONCEPTUAL AND SUBJECT TO VERIFICATION
 AND/OR CHANGE. THE ARCHITECT MAKES NO CLAIM
 FOR ACCURACY OF CONCEPTUAL INFORMATION
 OR OF INFORMATION SUPPLIED BY OTHERS.

CONCEPTUAL SECTION

SCALE:	
DATE:	3 / 22 / 17
REVISIONS:	

APPENDIX C
TRANSMITTAL OF WELL SEARCH RESULTS

http://geotracker.waterboards.ca.gov/gama/gamamap/public/default.asp?CMD=runreq GeoTracker GAMA

GEOTRACKER GAMA

Select Data to Display

Select a Data Category:

- Groundwater Well Locations
- Wells with Groundwater Chemical Data
- Groundwater Elevation / Depth Data

Select Datasets: (INFO)

- Department of Pesticide Regulation
- Department of Water Resources
- GAMA - Domestic Wells
- GAMA - Special Studies
- GAMA - Priority Basin Project
- Irrigated Lands Program (Central Coast RB)
- Monitoring wells (Water Board Regulated Sites)
- Public Water System Wells - [Access Actual Locations](#)
- National Water Information System (NWIS)

Run My Query

Filters / Data Export

Tools

Reports and Well Logs

- Data Summary (Based on Viewable Map or Selected Filter)
- Concentration Summary
- [County Water Quality Summary](#)
- [GeoTracker Boring Logs](#)
- [Local Groundwater Publications](#)

Map Coverages

GeoTracker Sites

CONTACT US TAKE A TOUR VIEW ON GEOTRACKER

2800 Broadway Oakland CA

Map Address

28th St

27th St

26th St

25th St

24th St

Telegraph Ave

Broadway

Summit St

Webster St

Valdez St

Harrison St

Fairmount Ave

Oakland Ave

Vernon St

Adams St

Perkins St

Orange St

Garland Ave

Harrison St

Frisbie St

Fairmount Ave

Richmond Blvd

Kempton Ave

Fairmount Ave

Stanley Pl

McClure St

Merced-Benz of Oakland

Cat Town

Temple Sinai

Volkswagen of Oakland

Westlake Middle School

Mua Oakland

The New Parkway Theater

KP Asian Market

Sprouts Farmers Market

AAMCO Transmissions & Total Car Care

Enterprise Rent-A-Car

Grocery Outlet Bargain Market

Vernon Market

Map Satellite

Google

Map data ©2017 Google 200 ft Terms of Use Report a map error

DATA SUMMARY - BASED ON VIEWABLE MAP AREA	
WELLS FOUND	
CITY	OAKLAND
COUNTY	ALAMEDA
DWR GROUNDWATER BASIN / SUB-BASIN	SANTA CLARA VALLEY (2-9)



COUNTY OF ALAMEDA
 PUBLIC WORKS AGENCY
 WATER RESOURCES SECTION
 399 Elmhurst Street, Hayward, CA 94544-1307
 James Yoo PH: (510) 670-6633 FAX: (510) 782-1939
 FOR GENERAL DRILLING PERMIT INFO:
www.acgov.org/pwa/wells

WELL COMPLETION REPORT RELEASE AGREEMENT—AGENCY
 (Government and Regulatory Agencies and their Authorized Agents)

Project No./Site Address 2800 Broadway City Oakland

Township, Range, and Section (unknown) See attached Site Location Map. Radius 1,000 feet
 (Must include entire study area and a map that shows the area of interest.)

Under California Water Code Section 13752, the agency named below requests permission from Department of Water Resources to inspect or copy, or for our authorized agent named below to inspect or copy. Well Completion Reports filed pursuant to Section 13751 to (check one):

- Make a study, or,
- Perform an environmental cleanup study associated with an unauthorized release of a contaminant within a distance of 2 miles,

In accordance with Section 13752, information obtained from these reports shall be kept confidential and shall not be disseminated, published, or made available for inspection by the public without written authorization from the owner(s) of the well(s). The information shall be used only for the purpose of conducting the study. Copies obtained shall be stamped **CONFIDENTIAL** and shall be kept in a restricted file accessible only to agency staff or the authorized agent.

Langan Engineering & Environmental Services, Inc.
 Authorized Agent

1 Almaden Boulevard, Suite 590
 Address

San Jose, CA 95113
 City, State, and Zip Code

Chelsea Bixel
 Signature

Staff Scientist
 Title

Telephone () 408-283-3638

Fax () 408-283-3601

July 5, 2017
 Date

cbixel@langan.com
 E-mail

ALAMEDA COUNTY DEPARTMENT OF
 Government or Regulatory Agency ENVIRONMENTAL HEALTH

1131 HARBOR BAY PARKWAY
 Address

ALAMEDA, CA 94502
 City, State, and Zip Code

Dylan Roe
 Signature

CHIEF - LAND WATER DIVISION
 Title

Telephone (510) 567-6767

Fax ()

July 6, 2017
 Date

dylan.roe@acgov.org
 E-mail

Well Legend

DOM=Domestic well

IRR=Irrigation well

MUN= Municipal well

IND=Industrial well

CAT=Cathodic well

DES=well destroyed (through permit)

ABN=Abandoned and not being used (but has not been destroyed through permit process)

TES=Test well

BOR= Geotechnical investigation

MON= Monitoring well

EXT/SVE=Extraction/ Vapor wells

PIE=Piezometers

REC=Recovery well (extraction/ vapor)

? = Unknown or no information found or given

Permit	Tr	Section	Address	Longcity	Owner	Update
	1S/4W	25D	3093 Broadway	Oakland	Connell Oldsmobile	7/23/1993
	1S/4W	25D 1	3093 Broadway	Oakland	Connell Oldsmobile B-8	7/23/1993
	1S/4W	25D 2	3093 Broadway	Oakland	Connell Oldsmobile B-9	7/23/1993
	1S/4W	25D 3	3093 Broadway	Oakland	Connell Oldsmobile B-10	7/23/1993
	1S/4W	25D 5	3093 Broadway	Oakland	Connell Oldsmobile B-13	7/23/1993
	1S/4W	25D 6	3080 Broadway	Oakland	Gereld Shirar	9/11/1997
W2015-0704	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-1	2/17/2016
W2015-0707	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-2	2/17/2016
W2015-0708	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-3	2/17/2016
W2015-0709	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-4	2/17/2016
W2015-0710	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-5	2/17/2016
W2015-0711	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-6	2/17/2016
W2015-0712	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-7	2/17/2016
W2015-0713	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-8	2/17/2016
W2015-0714	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-9	2/17/2016
W2015-0705	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-10	2/17/2016
W2015-0706	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-11	2/17/2016
W2015-0695	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-14 (D)	2/17/2016
W2015-0696	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-15 (E)	2/17/2016
W2015-0697	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-16 (A)	2/17/2016
W2015-0698	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-16 (B)	2/17/2016
W2015-0699	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-17 (A)	2/17/2016
W2015-0700	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-17 (B)	2/17/2016
W2015-0701	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-18	2/17/2016
W2015-0702	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-19	2/17/2016
W2015-0703	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-19S	2/17/2016
W2015-0716	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-1	2/17/2016
W2015-0716	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-2	2/17/2016
W2015-0716	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-3A	2/17/2016
W2015-0716	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-3B	2/17/2016
W2015-0716	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-4	2/17/2016
W2015-0716	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-5	2/17/2016
W2015-0715	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-1A	2/17/2016
W2015-0715	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-1B	2/17/2016
W2015-0715	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-2A	2/17/2016
W2015-0715	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-3B	2/17/2016
W2015-0715	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-4A	2/17/2016
W2015-0716	1S/4W	25D	3093 Broadway	Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, VE-1	2/17/2016
	1S/4W	25M 1	225 27TH ST	Oakland	EHLER CONTRACTORS	1/22/1990
	1S/4W	25M 2	225 27TH ST	Oakland	EHLER CONTRACTORS	1/22/1990
	1S/4W	25M 3	225 27TH ST	Oakland	EHLER CONTRACTORS	1/22/1990
	1S/4W	25M 4	210 GRAND AVE	Oakland	CHEVRON USA	1/22/1990
	1S/4W	25M 5	210 GRAND AVE	Oakland	CHEVRON USA	1/22/1990
	1S/4W	25M 6	210 GRAND AVE	Oakland	CHEVRON USA	1/22/1990
	1S/4W	25M 7	210 GRAND AVE	Oakland	CHEVRON USA	1/22/1990

Permit	Tr	Section	Address	Longcity	Owner	Update
	1S/4W	25M 8	210 GRAND AVE	Oakland	CHEVRON USA	1/22/1990
	1S/4W	25M 9	210 Grand Ave	Oakland	Chevron SS #90019	8/31/1990
	1S/4W	25M 10	210 Grand Ave	Oakland	Chevron SS #90019	8/31/1990
	1S/4W	25M 11	210 Grand Ave	Oakland	Chevron S/S #90019	8/31/1990
	1S/4W	25M 12	210 Grand Ave	Oakland	Chevron SS #90019	8/31/1990
	1S/4W	25M 13	210 Grand Ave	Oakland	Former Chevron 9-0019MW-2	9/26/1992
	1S/4W	25M 14	230 Bay Place	Oakland	Wells Fargo Bank MW-1	7/12/1993
	1S/4W	26A	3093 Broadway	Oakland	Connel Oldsmobile	3/14/1991
	1S/4W	26A 1	450 30TH	Oakland	PERALTA HOSPITAL	7/31/1984
	1S/4W	26A 2	3093 Broadway	Oakland	Connel Oldsmobile	1/11/1991
	1S/4W	26A 3	3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991
	1S/4W	26A 4	3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991
	1S/4W	26A 5	3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991
	1S/4W	26A 6	3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991
	1S/4W	26A 7	3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991
	1S/4W	26A 8	3093 Broadway	Oakland	Connell Oldsmobile	4/17/1991
W2013-1014	1S/4W	26H	2630 Broadway	Oakland	Chevron Environmental Management Company	7/19/2016
W2013-1015	1S/4W	26H	2630 Broadway	Oakland	Chevron Environmental Management Company	7/19/2016
W2013-1016	1S/4W	26H	2630 Broadway	Oakland	Chevron Environmental Management Company	7/19/2016
W2013-1017	1S/4W	26H	2630 Broadway	Oakland	Chevron Environmental Management Company	7/19/2016
W2013-1018	1S/4W	26H	2630 Broadway	Oakland	Chevron Environmental Management Company	7/19/2016
W2013-1019	1S/4W	26H	2630 Broadway	Oakland	Chevron Environmental Management Company	7/19/2016
W2013-1020	1S/4W	26H	2630 Broadway	Oakland	Chevron Environmental Management Company	7/19/2016
W2013-1021	1S/4W	26H	2630 Broadway	Oakland	Chevron Environmental Management Company	7/19/2016
W2013-1022	1S/4W	26H	2630 Broadway	Oakland	Chevron Environmental Management Company	7/19/2016
W2013-1023	1S/4W	26H	2630 Broadway	Oakland	Chevron Environmental Management Company	7/19/2016
W2016-0448	1S/4W	26H	2820 Broadway	Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW1	6/5/2017
W2016-0449	1S/4W	26H	2820 Broadway	Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW2	6/5/2017
W2016-0450	1S/4W	26H	2820 Broadway	Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW3	6/5/2017
W2016-0451	1S/4W	26H	2820 Broadway	Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW4	6/5/2017
W2016-0452	1S/4W	26H	2820 Broadway	Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW5	6/5/2017
W2016-0453	1S/4W	26H	2820 Broadway	Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW6	6/5/2017
	1S/4W	26H	2827 Webster	Oakland	Alan Rudy B-1	8/14/1992
	1S/4W	26H	294 27th St.	Oakland	MR & RB Assoc.	7/27/1993
	1S/4W	26H 1	28 & VALDEZ ST	Oakland	CHRSTN CHURCH HOME BLDG	7/31/1984
	1S/4W	26H 2	20TH ST.	Oakland	COMMUNITY CARE BLDG	7/31/1984
	1S/4W	26H 3	2740 BROADWAY	Oakland	BROADWAY VW	6/15/1989
	1S/4W	26H 4	2740 BROADWAY	Oakland	BROADWAY VW	6/15/1989
	1S/4W	26H 5	2740 BROADWAY	Oakland	BROADWAY VW	6/15/1989
	1S/4W	26H 6	2915 Broadway	Oakland	European Motors	6/21/1990
	1S/4W	26H 7	2915 Broadway	Oakland	European Motors	6/21/1990
	1S/4W	26H 8	2915 Broadway	Oakland	European Motors	6/21/1990
	1S/4W	26H 9	2740 Broadway Ave	Oakland	Broadway Volkswagen	7/29/1991
	1S/4W	26H 10	2740 Broadway	Oakland	Vorelco, Inc.	8/3/1992
	1S/4W	26H 11	2740 Broadway	Oakland	Vorelco, Inc.	8/3/1992

Permit	Tr	Section	Address	Longcity	Owner	Update
	1S/4W	26H 12	294 27th St	Oakland	MR & RB Partnership MW-1	4/8/1993
	1S/4W	26H 13	294 27th St	Oakland	MR & RB Partnership MW-2	4/8/1993
	1S/4W	26H 14	2827 Webster St.	Oakland	Alan Rudy B-2	7/13/1993
	1S/4W	26H 15	2630 Broadway	Oakland	Chevron Oil B-9 (MW-9)	12/29/1994
	1S/4W	26H 16	2630 Broadway	Oakland	Chevron Oil B-10 (MW-10)	12/29/1994
	1S/4W	26H 17	2630 Broadway	Oakland	Chevron Oil B-11 (MW-11)	12/29/1994
	1S/4W	26H 18	2630 Broadway	Oakland	Chevron Oil B-12 (MW-12)	12/29/1994
	1S/4W	26H 19	434 25th St	Oakland	Andre Mercier	7/24/1997
	1S/4W	26H 20	434 25th St	Oakland	Andre Mercier	7/24/1997
	1S/4W	26H 21	434 25th St	Oakland	Andre Mercier	7/24/1997
93581	1S/4W	26H 22	2735 Broadway	Oakland	Ravizza Comm. Real Estate	11/3/1997
93581	1S/4W	26H 23	2735 Broadway	Oakland	Ravizza Comm. Real Estate	11/3/1997
93581	1S/4W	26H 24	2735 Broadway	Oakland	Ravizza Comm. Real Estate	11/3/1997
93581	1S/4W	26H 25	2735 Broadway	Oakland	Ravizza Comm. Real Estate	11/3/1997
94239	1S/4W	26H 26	403 28th St	Oakland	Chrysler Realty Corporati	2/24/1998
94239	1S/4W	26H 27	403 28th St	Oakland	Chrysler Realty Corporati	2/24/1998
97281	1S/4W	26H 28	Valdez St && 26th St	Oakland	Broadway Motors Ford	3/29/1998
97281	1S/4W	26H 29	Valdez St && 26th St	Oakland	Broadway Motors Ford	3/29/1998
97281	1S/4W	26H 30	Valdez St && 26th St	Oakland	Broadway Motors Ford	3/29/1998
	1S/4W	26J	2302 VALDEZ ST.	Oakland	MORRISON & FORESTER	11/6/1989
	1S/4W	26J				
	1S/4W	26J				
	1S/4W	26J				
	1S/4W	26J				
	1S/4W	26J				
	1S/4W	26J				
	1S/4W	26J				
W2015-0235	1S/4W	26J	2333 Broadway	Oakland	Uptown Broadway Investors LLC, 235 Broadway, Suite 200, Oakland, CA, 94612, HMW-1	3/16/2016
W2015-0236	1S/4W	26J	2333 Broadway	Oakland	Uptown Broadway Investors LLC, 235 Broadway, Suite 200, Oakland, CA, 94612, HMW-2	3/16/2016
W2015-0237	1S/4W	26J	2333 Broadway	Oakland	Uptown Broadway Investors LLC, 235 Broadway, Suite 200, Oakland, CA, 94612, HMW-3	3/16/2016
	1S/4W	26J 1	23RD & VALDEZ	Oakland	OAKLAND TRIBUNE	6/15/1989
	1S/4W	26J 10	2345 Broadway	Oakland	Negherbon Auto Center	6/17/1993
	1S/4W	26J 11	2330 Webster St	Oakland	Labor Temple	9/17/1997
	1S/4W	26J 12	2330 Webster St	Oakland	Labor Temple	9/17/1997
	1S/4W	26J 13	2330 Webster St	Oakland	Labor Temple	9/17/1997
	1S/4W	26J 14	2330 Webster St	Oakland	Labor Temple	9/17/1997
	1S/4W	26J 15	2330 Webster St	Oakland	Labor Temple	9/17/1997
	1S/4W	26J 16	2330 Webster St	Oakland	Labor Temple	9/17/1997
	1S/4W	26J 17	2330 Webster St	Oakland	Labor Temple	9/17/1997
	1S/4W	26J 2	23RD & VALDEZ	Oakland	OAKLAND TRIBUNE	6/15/1989
	1S/4W	26J 3	23RD & VALDEZ	Oakland	OAKLAND TRIBUNE	6/15/1989
	1S/4W	26J 4	2302 VALDEZ ST.	Oakland	MORRISON & FORESTER	11/6/1989
	1S/4W	26J 5	2302 VALDEZ ST.	Oakland	MORRISON & FORESTER	11/6/1989
	1S/4W	26J 6	2302 VALDEZ ST.	Oakland	MORRISON & FORESTER	11/6/1989
	1S/4W	26J 7	2302 VALDEZ ST.	Oakland	MORRISON & FORESTER	11/6/1989

Permit	Tr	Section	Address	Longcity	Owner	Update
	1S/4W	26J 8	Valdez St.and 23rd Street	Oakland	Oakland Tribune	7/27/1990
	1S/4W	26J 9	Valdez St.and 23rd Street	Oakland	Oakland Tribune	7/29/1990

Longcity	Owner	Xcoord	Ycoord	Match	Tsrqg	Rec cod	Phone	City	Drilldate	Elevation	Totaldept	Waterdep
Oakland	Connell Oldsmobile	122260708	37820808	1	1S/4W 25D	0	0	OAK	Oct-92	0	35	28
Oakland	Connell Oldsmobile B-8	122260708	37820808	1	1S/4W 25D	0	0	OAK	Oct-92	0	40	0
Oakland	Connell Oldsmobile B-9	122260708	37820808	1	1S/4W 25D	0	0	OAK	Oct-92	0	32	0
Oakland	Connell Oldsmobile B-10	122260708	37820808	1	1S/4W 25D	0	0	OAK	Oct-92	0	35	0
Oakland	Connell Oldsmobile B-13	122260708	37820808	1	1S/4W 25D	0	0	OAK	Oct-92	0	40	36
Oakland	Gereld Shirar	122260795	37820262	1	1S/4W 25D	0	0	OAK	7/94	0	40	26
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-1				1S/4W 25D			OAK			35	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-2				1S/4W 25D			OAK			40	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-3				1S/4W 25D			OAK			35	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-4				1S/4W 25D			OAK			30	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-5				1S/4W 25D			OAK			35	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-6				1S/4W 25D			OAK			35	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-7				1S/4W 25D			OAK			33.5	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-8				1S/4W 25D			OAK			40	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-9				1S/4W 25D			OAK			32	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-10				1S/4W 25D			OAK			36	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-11				1S/4W 25D			OAK			40	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-14 (D)				1S/4W 25D			OAK			40	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-15 (E)				1S/4W 25D			OAK			40	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-16 (A)				1S/4W 25D			OAK			30	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-16 (B)				1S/4W 25D			OAK			40	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-17 (A)				1S/4W 25D			OAK			30	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-17 (B)				1S/4W 25D			OAK			40	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-18				1S/4W 25D			OAK			24	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-19				1S/4W 25D			OAK			27	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-19S				1S/4W 25D			OAK			23	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-1				1S/4W 25D			OAK			36	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-2				1S/4W 25D			OAK			30	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-3A				1S/4W 25D			OAK			26	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-3B				1S/4W 25D			OAK			38	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-4				1S/4W 25D			OAK			32	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-5				1S/4W 25D			OAK			34	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-1A				1S/4W 25D			OAK			30	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-1B				1S/4W 25D			OAK			38	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-2A				1S/4W 25D			OAK			38	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-3B				1S/4W 25D			OAK			36	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-4A				1S/4W 25D			OAK			29	
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, VE-1				1S/4W 25D			OAK			35	
Oakland	EHLER CONTRACTORS	122261532	37813806	8	1S/4W 25M	2423	0	OAK	Jun-89	0	13	7
Oakland	EHLER CONTRACTORS	122261532	37813806	8	1S/4W 25M	2424	0	OAK	Jun-89	0	11	4
Oakland	EHLER CONTRACTORS	122261532	37813806	8	1S/4W 25M	2425	0	OAK	Jun-89	0	8	4
Oakland	CHEVRON USA	122260568	37811384	0	1S/4W 25M	2426	0	OAK	Mar-89	0	15	7
Oakland	CHEVRON USA	122260568	37811384	0	1S/4W 25M	2427	0	OAK	Mar-89	0	17	7
Oakland	CHEVRON USA	122260568	37811384	0	1S/4W 25M	2428	0	OAK	Mar-89	0	20	12
Oakland	CHEVRON USA	122260568	37811384	0	1S/4W 25M	2429	0	OAK	Mar-89	0	17	11

Longcity	Owner	Xcoord	Ycoord	Match	Tsrqg	Rec cod	Phone	City	Drilldate	Elevation	Totaldept	Waterdep
Oakland	CHEVRON USA	122260568	37811384	0	1S/4W 25M	2430	0	OAK	Mar-89	0	17	11
Oakland	Chevron SS #90019	122260568	37811384	0	1S/4W 25M	841	0	OAK	Jun-90	0	12	0
Oakland	Chevron SS #90019	122260568	37811384	0	1S/4W 25M	842	0	OAK	Jun-90	0	12	0
Oakland	Chevron S/S #90019	122260568	37811384	0	1S/4W 25M	843	0	OAK	Jun-90	0	14	0
Oakland	Chevron SS #90019	122260568	37811384	0	1S/4W 25M	844	0	OAK	Jun-90	0	12	0
Oakland	Former Chevron 9-0019MW-2	122260568	37811384	1	1S/4W 25M	8121	0	OAK	Nov-91	0	0	0
Oakland	Wells Fargo Bank MW-1	122260316	37812135	1	1S/4W 25M	0	0	OAK	2/93	0	20	3
Oakland	Connel Oldsmobile	122260700	37820830	0	1S/4W 26A	1242	0	OAK	Oct-90	0	22	13
Oakland	PERALTA HOSPITAL	122265138	37819514	8	1S/4W 26A	2436	0	OAK	?	0	0	0
Oakland	Connel Oldsmobile	122260700	37820830	0	1S/4W 26A	929	0	OAK	Oct-90	90	18	4
Oakland	Connell Oldsmobile	122260700	37820830	0	1S/4W 26A	1627	0	OAK	Nov-90	0	41	40
Oakland	Connell Oldsmobile	122260700	37820830	0	1S/4W 26A	1628	0	OAK	2/91	0	15	7
Oakland	Connell Oldsmobile	122260700	37820830	0	1S/4W 26A	1629	0	OAK	2/91	0	40	27
Oakland	Connell Oldsmobile	122260700	37820830	0	1S/4W 26A	1630	0	OAK	2/91	0	35	22
Oakland	Connell Oldsmobile	122260700	37820830	0	1S/4W 26A	1631	0	OAK	2/91	0	30	24
Oakland	Connell Oldsmobile	122260700	37820830	0	1S/4W 26A	1632	0	OAK	3/91	0	35	25
Oakland	Chevron Environmental Management Company				1S/4W 26H			OAK			20	
Oakland	Chevron Environmental Management Company				1S/4W 26H			OAK			20	
Oakland	Chevron Environmental Management Company				1S/4W 26H			OAK			20	
Oakland	Chevron Environmental Management Company				1S/4W 26H			OAK			20	
Oakland	Chevron Environmental Management Company				1S/4W 26H			OAK			20	
Oakland	Chevron Environmental Management Company				1S/4W 26H			OAK			20	
Oakland	Chevron Environmental Management Company				1S/4W 26H			OAK			19.5	
Oakland	Chevron Environmental Management Company				1S/4W 26H			OAK			19.5	
Oakland	Chevron Environmental Management Company				1S/4W 26H			OAK			19.5	
Oakland	Chevron Environmental Management Company				1S/4W 26H			OAK			19.5	
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW1				1S/4W 26H			OAK			25	
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW2				1S/4W 26H			OAK			25	
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW3				1S/4W 26H			OAK			25	
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW4				1S/4W 26H			OAK			30	
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW5				1S/4W 26H			OAK			30	
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW6				1S/4W 26H			OAK			30	
Oakland	Alan Rudy B-1	122263492	37817097	1	1S/4W 26H	7679	0	OAK	8/91	0	10	0
Oakland	MR & RB Assoc.	122262216	37815029	1	1S/4W 26H	0	0	OAK	9/92	0	20	8
Oakland	CHRSTN CHURCH HOME BLDG	122262100	37816600	8	1S/4W 26H	2460	0	OAK	?	0	0	0
Oakland	COMMUNITY CARE BLDG	122293000	37817250	2	1S/4W 26H	2461	0	OAK	Nov-78	0	0	0
Oakland	BROADWAY VW	122263401	37816191	0	1S/4W 26H	2462	0	OAK	Jan-89	0	20	7
Oakland	BROADWAY VW	122263401	37816191	0	1S/4W 26H	2463	0	OAK	Jan-89	0	20	11
Oakland	BROADWAY VW	122263401	37816191	0	1S/4W 26H	2464	0	OAK	Jan-89	0	20	11
Oakland	European Motors	122262457	37818081	0	1S/4W 26H	322	0	OAK	2/90	45	30	12
Oakland	European Motors	122262457	37818081	0	1S/4W 26H	323	0	OAK	2/90	44	30	11
Oakland	European Motors	122262457	37818081	0	1S/4W 26H	324	0	OAK	2/90	44	30	10
Oakland	Broadway Volkswagen	122263401	37816191	3	1S/4W 26H	1751	0	OAK	4/91	5	17	3
Oakland	Vorelco, Inc.	122263401	37816191	1	1S/4W 26H	7533	0	OAK	Oct-91	0	30	8
Oakland	Vorelco, Inc.	122263401	37816191	1	1S/4W 26H	7534	0	OAK	Oct-91	0	27	11

Longcity	Owner	Xcoord	Ycoord	Match	Tsrqg	Rec cod	Phone	City	Drilldate	Elevation	Totaldept	Waterdep
Oakland	MR & RB Partnership MW-1	122262219	37815026	1	1S/4W 26H	8380	0	OAK	2/93	0	18	8
Oakland	MR & RB Partnership MW-2	122262219	37815026	1	1S/4W 26H	8381	0	OAK	2/93	0	17	7
Oakland	Alan Rudy B-2	122263483	37817098	1	1S/4W 26H	0	0	OAK	8/91	0	10	0
Oakland	Chevron Oil B-9 (MW-9)	122263922	37815367	1	1S/4W 26H	0	0	OAK	7/94	0	20	0
Oakland	Chevron Oil B-10 (MW-10)	122263922	37815367	1	1S/4W 26H	0	0	OAK	7/94	0	20	18
Oakland	Chevron Oil B-11 (MW-11)	122263922	37815367	1	1S/4W 26H	0	0	OAK	7/94	0	20	18
Oakland	Chevron Oil B-12 (MW-12)	122263922	37815367	1	1S/4W 26H	0	0	OAK	7/94	0	20	17
Oakland	Andre Mercier	122265722	37814668	1	1S/4W 26H	0	0	OAK	8/94	101	15	14
Oakland	Andre Mercier	122265722	37814668	1	1S/4W 26H	0	0	OAK	8/94	101	15	15
Oakland	Andre Mercier	122265722	37814668	1	1S/4W 26H	0	0	OAK	8/94	101	15	14
Oakland	Ravizza Comm. Real Estate	122263611	37816268	1	1S/4W 26H	0	0	OAK	Oct-93	0	38	27
Oakland	Ravizza Comm. Real Estate	122263611	37816268	1	1S/4W 26H	0	0	OAK	Oct-93	0	25	19
Oakland	Ravizza Comm. Real Estate	122263611	37816268	1	1S/4W 26H	0	0	OAK	Oct-93	0	30	20
Oakland	Ravizza Comm. Real Estate	122263611	37816268	1	1S/4W 26H	0	0	OAK	Oct-93	0	30	16
Oakland	Chrysler Realty Corporati	122264962	37816675	1	1S/4W 26H	0	0	OAK	5/94	0	29	0
Oakland	Chrysler Realty Corporati	122264962	37816675	1	1S/4W 26H	0	0	OAK	5/94	0	29	0
Oakland	Broadway Motors Ford	122263016	37814839	1	1S/4W 26H	0	0	OAK	5/97	0	15	10
Oakland	Broadway Motors Ford	122263016	37814839	1	1S/4W 26H	0	0	OAK	5/97	0	15	10
Oakland	Broadway Motors Ford	122263016	37814839	1	1S/4W 26H	0	0	OAK	5/97	0	15	0
Oakland	MORRISON & FORESTER	122263640	37812297	0	1S/4W 26J	2465	0	OAK	Aug-89	0	27	0
		0	0	9	1S/4W 26J	6896	0		Aug-89	0	25	0
		0	0	9	1S/4W 26J	6897	0		Aug-89	0	22	0
		0	0	9	1S/4W 26J	6898	0		Aug-89	0	22	0
		0	0	9	1S/4W 26J	6899	0		Aug-89	0	22	0
		0	0	9	1S/4W 26J	6900	0		Aug-89	0	24	0
		0	0	9	1S/4W 26J	6901	0		Aug-89	0	24	0
		0	0	9	1S/4W 26J	6902	0		Aug-89	0	22	0
Oakland	Uptown Broadway Investors LLC, 235 Broadway, Suite 200, Oakland, CA, 94612, HMW-1				1S/4W 26J			OAK			25	
Oakland	Uptown Broadway Investors LLC, 235 Broadway, Suite 200, Oakland, CA, 94612, HMW-2				1S/4W 26J			OAK			35	
Oakland	Uptown Broadway Investors LLC, 235 Broadway, Suite 200, Oakland, CA, 94612, HMW-3				1S/4W 26J			OAK			20	
Oakland	OAKLAND TRIBUNE	122263653	37812144	8	1S/4W 26J	2466	0	OAK	Aug-88	0	31	18
Oakland	Negherbon Auto Center	122265564	37813116	1	1S/4W 26J	0	0	OAK	6/92	0	29	22
Oakland	Labor Temple	122264578	37812846	1	1S/4W 26J	0	0	OAK	Dec-95	0	30	21
Oakland	Labor Temple	122264578	37812846	1	1S/4W 26J	0	0	OAK	1/96	0	31	7
Oakland	Labor Temple	122264578	37812846	1	1S/4W 26J	0	0	OAK	1/96	0	31	23
Oakland	Labor Temple	122264578	37812846	1	1S/4W 26J	0	0	OAK	1/96	0	31	20
Oakland	Labor Temple	122264578	37812846	1	1S/4W 26J	0	0	OAK	1/96	0	31	22
Oakland	Labor Temple	122264578	37812846	1	1S/4W 26J	0	0	OAK	1/96	0	31	20
Oakland	Labor Temple	122264578	37812846	1	1S/4W 26J	0	0	OAK	1/96	0	31	20
Oakland	OAKLAND TRIBUNE	122263653	37812144	8	1S/4W 26J	2467	0	OAK	Aug-88	0	31	18
Oakland	OAKLAND TRIBUNE	122263653	37812144	8	1S/4W 26J	2468	0	OAK	Aug-88	0	26	15
Oakland	MORRISON & FORESTER	122263640	37812297	0	1S/4W 26J	2469	0	OAK	Aug-89	0	27	0
Oakland	MORRISON & FORESTER	122263640	37812297	0	1S/4W 26J	2470	0	OAK	Aug-89	0	27	0
Oakland	MORRISON & FORESTER	122263640	37812297	0	1S/4W 26J	2471	0	OAK	Aug-89	0	27	0
Oakland	MORRISON & FORESTER	122263640	37812297	0	1S/4W 26J	2472	0	OAK	Aug-89	0	27	0

<u>Longcity</u>	<u>Owner</u>	<u>Xcoord</u>	<u>Ycoord</u>	<u>Match</u>	<u>Tsrqg</u>	<u>Rec cod</u>	<u>Phone</u>	<u>City</u>	<u>Drilldate</u>	<u>Elevation</u>	<u>Totaldept</u>	<u>Waterdep</u>
Oakland	Oakland Tribune	122263800	37812100	3	1S/4W 26J	722	0	OAK	May-90	0	27	0
Oakland	Oakland Tribune	122263800	37812100	3	1S/4W 26J	723	0	OAK	May-90	0	25	0

<u>Longcity</u>	<u>Owner</u>	<u>Diameter</u>	<u>Use</u>	<u>955 Log</u>
Oakland	Connell Oldsmobile	0	BOR	G
Oakland	Connell Oldsmobile B-8	6	MON	G
Oakland	Connell Oldsmobile B-9	2	MON	G
Oakland	Connell Oldsmobile B-10	6	MON	G
Oakland	Connell Oldsmobile B-13	2	BOR	G
Oakland	Gereld Shirar	2	MON	D
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-1		DES	WCR-e0285456
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-2		DES	WCR-e0285501
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-3		DES	WCR-e0285511
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-4		DES	WCR-e0285515
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-5		DES	WCR-e0285524
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-6		DES	WCR-e0285526
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-7		DES	WCR-e0285528
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-8		DES	WCR-e0285529
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-9		DES	WCR-e0285533
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-10		DES	WCR-e0285541
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-11		DES	WCR-e0285544
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-14 (D)		DES	WCR-e0285546
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-15 (E)		DES	WCR-e0285549
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-16 (A)		DES	WCR-e0285551
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-16 (B)		DES	WCR-e0285553
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-17 (A)		DES	WCR-e0285555
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-17 (B)		DES	WCR-e0285557
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-18		DES	WCR-e0288158
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-19		DES	WCR-e0288161
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, MW-19S		DES	WCR-e0288163
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-1		DES	WCR-e0288165
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-2		DES	WCR-e0288166
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-3A		DES	WCR-e0288168
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-3B		DES	WCR-e0288170
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-4		DES	WCR-e0288172
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, RW-5		DES	WCR-e0288173
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-1A		DES	WCR-e0288174
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-1B		DES	WCR-e0288175
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-2A		DES	WCR-e0288176
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-3B		DES	WCR-e0288178
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, AS-4A		DES	WCR-e0288179
Oakland	3093 Broadway Holdings, LLC, 2235 3rd Street, Ste E202, San Francisco, CA, 94107, VE-1		DES	WCR-e0288180
Oakland	EHLER CONTRACTORS	4	MON	G
Oakland	EHLER CONTRACTORS	4	MON	G
Oakland	EHLER CONTRACTORS	4	MON	G
Oakland	CHEVRON USA	4	MON	G
Oakland	CHEVRON USA	4	MON	G
Oakland	CHEVRON USA	4	MON	G
Oakland	CHEVRON USA	4	MON	G

<u>Longcity</u>	<u>Owner</u>	<u>Diameter</u>	<u>Use</u>	<u>955 Log</u>
Oakland	CHEVRON USA	4	MON	G
Oakland	Chevron SS #90019	2	MON	D
Oakland	Chevron SS #90019	2	MON	D
Oakland	Chevron S/S #90019	2	MON	D
Oakland	Chevron SS #90019	2	MON	D
Oakland	Former Chevron 9-0019MW-2	0	DES	
Oakland	Wells Fargo Bank MW-1	2	MON	G
Oakland	Connel Oldsmobile	2	MON	G
Oakland	PERALTA HOSPITAL	0	GEO*	G
Oakland	Connel Oldsmobile	2	MON	D
Oakland	Connell Oldsmobile	2	MON	D
Oakland	Connell Oldsmobile	4	MON	D
Oakland	Connell Oldsmobile	2	MON	D
Oakland	Connell Oldsmobile	2	MON	D
Oakland	Connell Oldsmobile	2	MON	D
Oakland	Connell Oldsmobile	2	MON	D
Oakland	Chevron Environmental Management Company		DES	WCR-e0204279
Oakland	Chevron Environmental Management Company		DES	WCR-e0204280
Oakland	Chevron Environmental Management Company		DES	WCR-e0204281
Oakland	Chevron Environmental Management Company		DES	WCR-e0204282
Oakland	Chevron Environmental Management Company		DES	WCR-e0204283
Oakland	Chevron Environmental Management Company		DES	WCR-e0204284
Oakland	Chevron Environmental Management Company		DES	WCR-e0204286
Oakland	Chevron Environmental Management Company		DES	WCR-e0204287
Oakland	Chevron Environmental Management Company		DES	WCR-e0204289
Oakland	Chevron Environmental Management Company		DES	WCR-e0204290
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW1		MON	WCR-e0342841
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW2		MON	WCR-e0342846
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW3		MON	WCR-e0342848
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW4		MON	WCR-e0342850
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW5		MON	WCR-e0342852
Oakland	Broadstone on Broadway, LLC, 477 Pacific Ave, Ste 1, San francisco, MW6		MON	WCR-e0342854
Oakland	Alan Rudy B-1	2	BOR*	G
Oakland	MR & RB Assoc.	0	BOR	G
Oakland	CHRSTN CHURCH HOME BLDG	0	GEO*	G
Oakland	COMMUNITY CARE BLDG	0	GEO*	G
Oakland	BROADWAY VW	2	MON	G
Oakland	BROADWAY VW	2	MON	G
Oakland	BROADWAY VW	2	MON	G
Oakland	European Motors	2	MON	G
Oakland	European Motors	2	MON	G
Oakland	European Motors	2	MON	G
Oakland	Broadway Volkswagen	2	MON	G
Oakland	Vorelco, Inc.	4	MON	D
Oakland	Vorelco, Inc.	4	MON	D

<u>Longcity</u>	<u>Owner</u>	<u>Diameter</u>	<u>Use</u>	<u>955 Log</u>
Oakland	MR & RB Partnership MW-1	2	MON	D
Oakland	MR & RB Partnership MW-2	2	MON	D
Oakland	Alan Rudy B-2	0	BOR	E
Oakland	Chevron Oil B-9 (MW-9)	2	MON	G
Oakland	Chevron Oil B-10 (MW-10)	2	MON	G
Oakland	Chevron Oil B-11 (MW-11)	2	MON	G
Oakland	Chevron Oil B-12 (MW-12)	2	MON	G
Oakland	Andre Mercier	2	MON	G
Oakland	Andre Mercier	2	MON	G
Oakland	Andre Mercier	2	MON	G
Oakland	Ravizza Comm. Real Estate	4	MON	G
Oakland	Ravizza Comm. Real Estate	4	MON	G
Oakland	Ravizza Comm. Real Estate	4	MON	G
Oakland	Ravizza Comm. Real Estate	4	MON	G
Oakland	Chrysler Realty Corporati	2	MON	G
Oakland	Chrysler Realty Corporati	2	MON	G
Oakland	Broadway Motors Ford	2	MON	D
Oakland	Broadway Motors Ford	2	MON	D
Oakland	Broadway Motors Ford	2	MON	D
Oakland	MORRISON & FORESTER	0	BOR	G
		0	BOR	G
		0	BOR	G
		0	BOR	G
		0	BOR	G
		0	BOR	G
		0	BOR	G
		0	BOR	G
Oakland	Uptown Broadway Investors LLC, 235 Broadway, Suite 200, Oakland, CA, 94612, HMW-1		MON	WCR-e0272895
Oakland	Uptown Broadway Investors LLC, 235 Broadway, Suite 200, Oakland, CA, 94612, HMW-2		MON	WCR-e0261957
Oakland	Uptown Broadway Investors LLC, 235 Broadway, Suite 200, Oakland, CA, 94612, HMW-3		MON	WCR-e0261959
Oakland	OAKLAND TRIBUNE	3	MON	G
Oakland	Negherbon Auto Center	2	MON	G
Oakland	Labor Temple	2	MON	G
Oakland	Labor Temple	2	MON	G
Oakland	Labor Temple	2	MON	G
Oakland	Labor Temple	2	MON	G
Oakland	Labor Temple	2	MON	G
Oakland	Labor Temple	2	MON	G
Oakland	Labor Temple	2	MON	G
Oakland	Labor Temple	2	MON	G
Oakland	OAKLAND TRIBUNE	3	MON	G
Oakland	OAKLAND TRIBUNE	3	MON	G
Oakland	MORRISON & FORESTER	4	MON	G
Oakland	MORRISON & FORESTER	4	MON	G
Oakland	MORRISON & FORESTER	4	MON	G
Oakland	MORRISON & FORESTER	4	MON	G

<u>Longcity</u>	<u>Owner</u>	<u>Diameter</u>	<u>Use</u>	<u>955 Log</u>
Oakland	Oakland Tribune	4	MON	G
Oakland	Oakland Tribune	4	MON	G

APPENDIX D
BORING LOGS BY OTHERS

PROJECT PREMIER HYUNDAI OF OAKLAND LOCATION 2800 & 2820 BROADWAY, OAKLAND, CALIFORNIA PROJECT NO. 118EM01075
 DATE DRILLED 09/19/2015 LOGGED BY JIM KUNDERT REVIEWED BY GABE STIVALA
 DRILLING COMPANY GREGG DRILLING AND TESTING DRILLER ANGEL METHOD DIRECT PUSH
 BORE HOLE DIAMETER 2 IN. DEPTH DRILLED 16 FT DEPTH TO WATER : INITIAL 15 FT STATIC FT
 CASING TYPE NA DIAMETER IN SCHEDULE INTERVAL FT TO FT
 SCREEN TYPE NA DIAMETER IN SLOT SIZE IN INTERVAL FT TO FT
 FILTER PACK TYPE NA INTERVAL FT TO FT
 SURFACE SEAL TYPE NEAT CEMENT INTERVAL FT TO FT
 COMMENTS: _____ PAGE 1 OF 1

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	LITHOLOGIC LOG	DESCRIPTION
	0' - 1'				CONCRETE SLAB
	2				
	4				
	4' - 6'		B1-5'	CL	SANDY CLAY (CL): 5% ROUNDED GRAVEL; 20% MEDIUM SAND; 75% FINES; FIRM TO STIFF, YELLOW BROWN, MEDIUM TO HIGH PLASTICITY, NO ODOR, NO ORGANICS, DRY TO MOIST.
	6	34.0			
	6' - 8'			CL	GRAVELLY CLAY (CL): 10% SUBROUNDED GRAVEL; 5% MEDIUM SAND; 85% FINES; STIFF, BROWN, MEDIUM PLASTICITY, NO ODOR, NO ORGANICS, MOIST.
	8	27.7			
	8' - 10'			CL	CLAY (CL): 100% FINES; STIFF TOP VERY STIFF, YELLOW BROWN, HIGH PLASTICITY, NO ODOR, NO ORGANICS, MOIST, HOMOGENOUS.
	10	130	B1-10'		
	10' - 14'			CL	SILTY CLAY (CL): 100% FINES; STIFF TO VERY STIFF, YELLOW BROWN, MEDIUM TO HIGH PLASTICITY, SOLVENT ODOR, NO ORGANICS, DRY TO MOIST.
	12	579	B1-12'		
	14	248	B1-15'		
	14' - 16'		B1-W	ML	SILTY SAND (SP): 60% SUBROUNDED MEDIUM SAND; 30% FINES; GREYISH BROWN, FAINT SOLVENT ODOR, NO ORGANICS, WET.
	16	1100	B1-16'		
	18				
	20				
	22				
	24				
	26				
	28				
	30				
	32				
	34				
	36				
	38				
	40				



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BORING NUMBER B-4

PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15
 DRILLING CONTRACTOR GREGG DRILLING LOCATION 2800 AND 2855 BROADWAY, OAKLAND, CA
 DRILLING METHOD DIRECT PUSH CASING TYPE/DIAMETER _____
 SAMPLING METHOD ACETATE SCREEN TYPE/SLOT _____
 GROUND ELEVATION _____ GRAVEL PACK TYPE _____
 TOP OF CASING _____ GROUT TYPE/QUANTITY _____
 LOGGED BY NEVISON DEPTH TO WATER AT TIME OF DRILLING 15
 CHECKED BY BENEDETTI GROUND WATER ELEVATION _____

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10.GPJ ATC ASSOCIATES.GDT 12/11/15

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		1	ML		SURFACE: CONCRETE	
		2			ML, SANDY SILT, DARK BROWN (10YR 3/3), DRY TO MOIST, DENSE, FINE NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	
		3	ML		ML, SILTY SAND, DARK YELLOWISH BROWN (10YR 4/6), MOIST, DENSE, 70% FINE SAND NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	2.3
		4			CL, SANDY CLAY, BROWN (10YR 4/3), MOIST, STIFF, 20% FINE SAND, TRACE ROUNDED GRAVEL NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	3.8
	CC B4-5'	5	CL			
		6			CL, GRAVELLY CLAY, BROWN (10YR 4/3), MOIST, STIFF, MEDIUM PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	6.0
		7	CL			
70.7		8			CH, CLAY, BROWN (10YR 4/3), MOIST, STIFF, HIGH PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	7.8
		9	CH			



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BORING NUMBER B-4

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PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15

Continued from Previous Page

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
121	CC B4-10'		CL		CL, SANDY CLAY, BROWN (10YR 5/3), MOIST, MEDIUM STIFF, 20% FINE TO MEDIUM SAND, MEDIUM PLASTICITY, TRACE GRAVEL NO HYDROCARBON ODOR, MOTTLING WITH ORANGE COLOR	10.0
		11			CH, SILTY CLAY, BROWN (10YR 5/3), MOIST, STIFF TO VERY STIFF, HIGH PLASTICITY SOLVENT ODOR AT 12' ODOR INCREASING GRADES TO SANDY CLAY	11.0
252		12	CL			
		13	CL			
>70,000	CC B4-14'	14				
		15	SC-SM		SC-SM, INTERBEDDED LAYERS OF SILTY SAND AND SANDY CLAY, GRAY (10YR 4/1), SATURATED, LOOSE MODERATE SOLVENT ODOR, STAINED (WATER BEARING ZONE)	14.5
117	CC B4-16'	16	CL		CH, CLAY, DARK GRAYISH BROWN (10YR 4/2), MOIST, VERY STIFF SLIGHT SOLVENT ODOR, APPEARS STAINED	16.0
		17			Bottom of borehole at 17.0 feet.	17.0

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10 GP.J ATC ASSOCIATES.GDT 12/11/15



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BORING NUMBER B-5

PAGE 1 OF 2

PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15
 DRILLING CONTRACTOR GREGG DRILLING LOCATION 2800 AND 2855 BROADWAY, OAKLAND, CA
 DRILLING METHOD DIRECT PUSH CASING TYPE/DIAMETER _____
 SAMPLING METHOD ACETATE SCREEN TYPE/SLOT _____
 GROUND ELEVATION _____ GRAVEL PACK TYPE _____
 TOP OF CASING _____ GROUT TYPE/QUANTITY _____
 LOGGED BY NEVISON DEPTH TO WATER AT TIME OF DRILLING 15
 CHECKED BY BENEDETTI GROUND WATER ELEVATION _____

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10.GPJ ATC ASSOCIATES.GDT 12/11/15

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		1	ML		SURFACE: CONCRETE ML, SANDY SILT, DARK BROWN (10YR 3/3), DENSE, FINE NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	
		2				2.0
		3	SM		SILTY SAND, DARK YELLOWISH BROWN (10YR 4/6), MOIST, DENSE, FINE SAND NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	
		4				4.0
		5			CL, SANDY CLAY W/ GRAVEL, BROWN (10YR 4/3), MOIST, VERY STIFF, 20% FINE TO COARSE SAND, 5% FINE GRAVEL NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	
		6	CL			
		7				
		8			CH, SILTY CLAY, BROWN (10YR 5/3), MOIST, STIFF, HIGH PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	8.0
		9	CH			

CC
B5-5'

6.3



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PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15

Continued from Previous Page

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
12	CC B5-10'	11			CH, SILTY CLAY, BROWN (10YR 5/3), MOIST, STIFF, HIGH PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN <i>(continued)</i>	
19		12	CH			
25		13				
		14				
		15	SM		SM, SILTY SAND, BROWN (10YR 4/3), SATURATED, MEDIUM DENSE, FINE SAND, WATER BEARING APPROXIMATELY 14.5 - 16' NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	14.5
		16	CH		CH, CLAY, DARK YELLOWISH BROWN (10YR 4/4), MOIST, STIFF, HIGH PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	16.0
		17			Bottom of borehole at 17.0 feet.	17.0

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10 GP.J ATC ASSOCIATES.GDT 12/11/15



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BORING NUMBER B-6

PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15
 DRILLING CONTRACTOR GREGG DRILLING LOCATION 2800 AND 2855 BROADWAY, OAKLAND, CA
 DRILLING METHOD DIRECT PUSH CASING TYPE/DIAMETER _____
 SAMPLING METHOD ACETATE SCREEN TYPE/SLOT _____
 GROUND ELEVATION _____ GRAVEL PACK TYPE _____
 TOP OF CASING _____ GROUT TYPE/QUANTITY _____
 LOGGED BY NEVISON DEPTH TO WATER AT TIME OF DRILLING 15
 CHECKED BY BENEDETTI GROUND WATER ELEVATION _____

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		1	ML		SURFACE: CONCRETE ML, SANDY SILT, DARK BROWN (10YR 3/3), DRY, DENSE, FINE NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	1.5
3.3		2	SM		SM, SILTY SAND, DARK YELLOWISH BROWN (10YR 4/6), MOIST, DENSE, FINE SAND NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	4.0
4.2		3				
5.3	CC B6-5'	4	CL		CL, SILTY SANDY CLAY W/ GRAVEL, BROWN (10YR 4/3), MOIST, STIFF, 20% FINE TO COARSE SAND, 5% FINE GRAVEL NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	7.0
		5				
2.8		6	CH		CH, CLAY, BROWN (10YR 5/3), MOIST, MEDIUM STIFF TO STIFF, HIGH PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	9.0
		7				
		8				
		9				

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10.GPJ ATC ASSOCIATES.GDT 12/11/15



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BORING NUMBER B-6

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PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15

Continued from Previous Page

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
12	CC B6-10'	11	CH		CH, CLAY, BROWN (10YR 5/3), MOIST, MEDIUM STIFF TO STIFF, HIGH PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN (continued)	▼
3.3		12	CH		CH, SILTY CLAY, BROWN (10YR 5/3), MOIST, SOFT, HIGH PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	12.0
		13	CL		CL, CLAYEY SAND, BROWN (10YR 5/3), MOIST, MEDIUM DENSE, FINE SAND NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	13.0
		14	SM		SM, SILTY CLAYEY SAND, BROWN (10YR 4/3), SATURATED, MEDIUM DENSE, FINE TO MEDIUM GRAIN SAND WATER BEARING APPROXIMATELY 14 - 15.5' NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	14.0
6.6	B6-15'	15	CH		CH, CLAY, DARK GRAYISH BROWN (10YR 4/2), MOIST, VERY STIFF, PLASTIC NO HYDROCARBON ODOR, SLIGHT HYDROCARBON STAIN	▼
		16	CH			15.5
		17			Bottom of borehole at 17.0 feet.	17.0

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10.GPJ ATC ASSOCIATES.GDT 12/11/15



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BORING NUMBER B-7

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PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15
 DRILLING CONTRACTOR GREGG DRILLING LOCATION 2800 AND 2855 BROADWAY, OAKLAND, CA
 DRILLING METHOD DIRECT PUSH CASING TYPE/DIAMETER _____
 SAMPLING METHOD ACETATE SCREEN TYPE/SLOT _____
 GROUND ELEVATION _____ GRAVEL PACK TYPE _____
 TOP OF CASING _____ GROUT TYPE/QUANTITY _____
 LOGGED BY NEVISON DEPTH TO WATER AT TIME OF DRILLING 15
 CHECKED BY BENEDETTI GROUND WATER ELEVATION _____

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10.GPJ ATC ASSOCIATES.GDT 12/11/15

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		1 -			SURFACE: CONCRETE	
		2 -	SM		SM, SILTY SAND W/ GRAVEL, BROWN (10YR 4/3), MOIST, 80% FINE SAND, 5% FINE ROUNDED GRAVEL NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	
2.9		3 -				
		4 -				
		4 -			CL, SANDY CLAY W/ GRAVEL, BROWN (10YR 4/3), MOIST, VERY STIFF, 25% FINE SAND, 5% ROUNDED GRAVEL NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	4.0
5.3	CC B7-5'	5 -				
		6 -	CL			
		7 -				
		8 -				
		8 -			CH, CLAY, BROWN (10YR 4/3), MOIST, STIFF, MEDIUM - HIGH PLASTICITY, TRACE FINE SAND NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	8.0
		9 -	CH			



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BORING NUMBER B-7

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PROJECT NUMBER 118EM01075

DATE STARTED 10/3/15

PROJECT NAME ALLIANCE REALTY

DATE COMPLETED 10/4/15

Continued from Previous Page

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
	CC B7-10'	11	CH		CH, CLAY, BROWN (10YR 4/3), MOIST, STIFF, MEDIUM - HIGH PLASTICITY, TRACE FINE SAND NO HYDROCARBON ODOR, NO HYDROCARBON STAIN (continued)	11.0
		12				
		13	CH		CH, SILTY CLAY, BROWN (10YR 5/3), MOIST, SOFT, HIGH PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	11.0
		14				14.0
	CC B7-15'	15	SC-SM		SC-SM, INTERBEDDED LAYERS OF SILTY SAND AND SAND CLAY, BROWN (10YR 4/3), SATURATED, LOOSE NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	14.0
		16			Bottom of borehole at 16.0 feet.	16.0

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10 GPJ ATC ASSOCIATES.GDT 12/11/15



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BORING NUMBER B-8

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PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15
 DRILLING CONTRACTOR GREGG DRILLING LOCATION 2800 AND 2855 BROADWAY, OAKLAND, CA
 DRILLING METHOD DIRECT PUSH CASING TYPE/DIAMETER _____
 SAMPLING METHOD ACETATE SCREEN TYPE/SLOT _____
 GROUND ELEVATION _____ GRAVEL PACK TYPE _____
 TOP OF CASING _____ GROUT TYPE/QUANTITY _____
 LOGGED BY NEVISON DEPTH TO WATER AT TIME OF DRILLING 15
 CHECKED BY BENEDETTI GROUND WATER ELEVATION _____

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10.GPJ ATC ASSOCIATES.GDT 12/11/15

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		1			SURFACE: CONCRETE	
		2	SM		SM, SILTY SAND, BROWN (10YR 4/3), MOIST, 80% FINE SAND, TRACE ROUNDED GRAVEL NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	
3.2		3				
		4				
		5			CL, SANDY CLAY W/ GRAVEL, BROWN (10YR 4/3), MOIST, STIFF, 20% FINE SAND, 5% ROUNDED GRAVEL NO HYDROCARBON ODOR, NO HYDROCARBON STAIN ENCOUNTERED COBBLE AT 5'	3.5
4.1	CC B8-5'	6	CL			
		7				
		8				
		9	CH		CH, CLAY, BROWN (10YR 4/3), MOIST, STIFF, MEDIUM - HIGH PLASTICITY, TRACE FINE SAND NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	8.0



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BORING NUMBER B-8

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PROJECT NUMBER 118EM01075

DATE STARTED 10/3/15

PROJECT NAME ALLIANCE REALTY

DATE COMPLETED 10/4/15

Continued from Previous Page

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
	CC B8-10'	11	CH		CH, CLAY, BROWN (10YR 4/3), MOIST, STIFF, MEDIUM - HIGH PLASTICITY, TRACE FINE SAND NO HYDROCARBON ODOR, NO HYDROCARBON STAIN (continued)	11.0
		12				
		13	CH		CH, SILTY CLAY, BROWN (10YR 5/3), MOIST, SOFT, HIGH PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	11.0
		14				14.0
	CC B8-15'	15	SC-SM		SC-SM, INTERBEDDED LAYERS OF SILTY SAND AND SANDY CLAY, BROWN (10YR 4/3), SATURATED, LOOSE NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	14.0
		16				
		17			Bottom of borehole at 17.0 feet.	17.0

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10 GP.J ATC ASSOCIATES.GDT 12/11/15



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BORING NUMBER B-9

PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15
 DRILLING CONTRACTOR GREGG DRILLING LOCATION 2800 AND 2855 BROADWAY, OAKLAND, CA
 DRILLING METHOD DIRECT PUSH CASING TYPE/DIAMETER _____
 SAMPLING METHOD ACETATE SCREEN TYPE/SLOT _____
 GROUND ELEVATION _____ GRAVEL PACK TYPE _____
 TOP OF CASING _____ GROUT TYPE/QUANTITY _____
 LOGGED BY NEVISON DEPTH TO WATER AT TIME OF DRILLING 17
 CHECKED BY BENEDETTI GROUND WATER ELEVATION _____

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10.GPJ ATC ASSOCIATES.GDT 12/11/15

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		1 -			SURFACE: CONCRETE ML, SANDY SILT, BROWN (10YR 4/3), MOIST, SOFT NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	
		2 -				
3		3 -				
		4 -				
7		5 -	ML		NO RECOVERY. NO SAMPLE AT 5'.	
		6 -				
		7 -				
		8 -				
		9 -				



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BORING NUMBER B-9

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PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15

Continued from Previous Page

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
3.4	CC B9-10'	11	CL		CL, SANDY GRAVELLY CLAY, DARK BROWN (7.5YR 3/4), MOIST, DENSE, 40% FINE TO MEDIUM GRAINED SAND, 15% FINE GRAVEL, STIFF, LOW PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	10.0
7.1		12				12.0
		13	CL		CL, SILTY CLAY, YELLOWISH BROWN (10YR 5/4), MOIST, STIFF, MEDIUM PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	
		14				14.0
7.2	CC B9-15'	15	CL		CL, SILTY CLAY, BROWN (10YR 5/3), MOIST, SOFT - STIFF, PLASTIC NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	▼
		16				
		17				▽ 17.0
		18	SC-SM		SC-SM, INTERBEDDED LAYERS OF SANDY SILT AND CLAY, BROWN (10YR 5/3), SATURATED NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	
		19	CH		CH, CLAY NO HYDROCARBON ODOR, GRAY STAINING	18.5
6.6		20			Bottom of borehole at 20.0 feet.	20.0

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10 GP.J ATC ASSOCIATES.GDT 12/11/15



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BORING NUMBER B-10

PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15
 DRILLING CONTRACTOR GREGG DRILLING LOCATION 2800 AND 2855 BROADWAY, OAKLAND, CA
 DRILLING METHOD DIRECT PUSH CASING TYPE/DIAMETER _____
 SAMPLING METHOD ACETATE SCREEN TYPE/SLOT _____
 GROUND ELEVATION _____ GRAVEL PACK TYPE _____
 TOP OF CASING _____ GROUT TYPE/QUANTITY _____
 LOGGED BY BENEDETTI DEPTH TO WATER AT TIME OF DRILLING _____
 CHECKED BY NEVISON GROUND WATER ELEVATION _____

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10.GPJ ATC ASSOCIATES.GDT 12/11/15

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		1 -			SURFACE: CONCRETE	
		2 -			ML, SANDY SILT, DARK BROWN (10YR 3/3), DENSE, FINE NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	
2.4		3 -				
		4 -	ML			
2.8	CC B10-5'	5 -			POOR RECOVERY	
		6 -				
		7 -				
		8 -	ML		ML, SANDY SILT, BROWN (10YR 4/3), MOIST, SOFT NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	8.0
		9 -	ML		ML, SANDY SILT, BROWN (10YR 4/3), DRY, SOFT NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	9.0



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BORING NUMBER B-10

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PROJECT NUMBER 118EM01075 DATE STARTED 10/3/15
PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/4/15

Continued from Previous Page

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
4.5	CC B10-10'	11	CL		CL, SANDY CLAY, BROWN (10YR 5/3), MOIST, STIFF, TRACE FINE GRAVEL, MEDIUM PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	10.0
6.4		12				12.0
		13				
		14				
5.5	CC B10-15'	15	CL		CL, SILTY CLAY, YELLOWISH BROWN (10YR 5/4), MOIST, STIFF, MEDIUM TO HIGH PLASTICITY NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	
		16				
		17				
4.6		18	SC-SM		SC-SM, INTERBEDDED LAYERS OF SILTY SAND AND SILTY CLAY, BROWN (10YR 4/3), SATURATED NO HYDROCARBON ODOR, NO HYDROCARBON STAIN	17.3
		19				
		20			Bottom of borehole at 20.0 feet.	20.0

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-4 - B-10 GP.J ATC ASSOCIATES.GDT 12/11/15



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BORING NUMBER B-12

PROJECT NUMBER 118EM01075 DATE STARTED 10/10/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/10/15
 DRILLING CONTRACTOR GREGG DRILLING LOCATION 2800 AND 2855 BROADWAY, OAKLAND, CA
 DRILLING METHOD DIRECT PUSH CASING TYPE/DIAMETER _____
 SAMPLING METHOD ACETATE SCREEN TYPE/SLOT _____
 GROUND ELEVATION _____ GRAVEL PACK TYPE _____
 TOP OF CASING _____ GROUT TYPE/QUANTITY _____
 LOGGED BY STIVALA DEPTH TO WATER AT TIME OF DRILLING 20
 CHECKED BY _____ GROUND WATER ELEVATION _____

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		1	ML		SURFACE: CONCRETE	
		2			ML, SANDY SILT, REDDISH BROWN, DRY, SOME CLAY, FINE SAND	2.0
		3			SM, SANDY SILT, REDDISH BROWN, SOME FINE GRAVEL, SAND IS FINE, DRY	
		4				
<1	CC B-12, 5'	5	SM			
		6				
		7			SM, SILTY CLAY, LIGHT BROWN, MEDIUM PLASTICITY SLIGHT HYDROCARBON ODOR	9.0
		8				
267	CC B-12, 10'	9				
		10	SM			
		11			CL, CLAY, BROWN, MOIST, HIGH PLASTICITY ODOR	15.0
		12				
349	CC B-12, 15'	13				
		14	CL			
		15			SM, SANDY SILT, GRAYISH BROWN, FINE GRAVEL, WET ODOR	20.0
		16				
		17				
		18	CL			
		19			SM, SANDY SILT, GRAYISH BROWN, FINE GRAVEL, WET ODOR	20.0
		20				
360		21	SM			
		22				
					Bottom of borehole at 22.0 feet.	22.0

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-12 - B-14.GPJ ATC ASSOCIATES.GDT 12/11/15



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BORING NUMBER B-13

PROJECT NUMBER 118EM01075 DATE STARTED 10/10/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/10/15
 DRILLING CONTRACTOR GREGG DRILLING LOCATION 2800 AND 2855 BROADWAY, OAKLAND, CA
 DRILLING METHOD DIRECT PUSH CASING TYPE/DIAMETER _____
 SAMPLING METHOD ACETATE SCREEN TYPE/SLOT _____
 GROUND ELEVATION _____ GRAVEL PACK TYPE _____
 TOP OF CASING _____ GROUT TYPE/QUANTITY _____
 LOGGED BY STIVALA DEPTH TO WATER AT TIME OF DRILLING _____
 CHECKED BY _____ GROUND WATER ELEVATION _____

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-12 - B-14.GPJ ATC ASSOCIATES.GDT 12/11/15




PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		1 -			SURFACE: CONCRETE	
		2 -			ML, SILT, LIGHT BROWN, DRY	
		3 -	ML			
		4 -				
<1	CC B-13, 5'	5 -			ML, CLAYEY SILT, LIGHT BROWN, DRY	5.0
		6 -				
		7 -				
		8 -	ML			
		9 -				
<1	CC B-13, 10'	10 -				
		11 -			ML, SANDY SILT WITH COARSE GRAVEL, SOME SMALL COBBLE, DRY	11.0
		12 -	ML			
		13 -				
		14 -	CL		CL, CLAY, GREYISH BROWN, HIGH PLASTICITY, DRY	13.0
		15 -	CL		CL, SANDY CLAY, GREYISH BROWN, HIGH PLASTICITY, DRY, FINE	14.0
8	CC B-13, 15'	16 -			CL, CLAY, GREYISH BROWN, HIGH PLASTICITY, DRY	15.0
		17 -				
		18 -	CL			
		19 -				
6		20 -				
		21 -			CL, SILTY CLAY, LIGHT BROWN, DRY NO ODOR	21.0
		22 -	CL			
		23 -				
9	CC B-13, 24'	24 -			REFUSAL WITH BADGER DRILL RIG USED TRUCK MOUNTED DRILLING RIG	24.0
		25 -			CL, CLAY, LIGHT BROWN, HIGH PLASTICITY	25.0
		26 -	CL			
		27 -			CL, GRAVELLY CLAY, DARK BROWN, MOIST	27.0
		27.5 -	CL			27.5
28	CC B-13, 28'	28 -			CL, CLAY, LIGHT BROWN, HIGH PLASTICITY	28.0
					Bottom of borehole at 28.0 feet.	



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BORING NUMBER B-14

PROJECT NUMBER 118EM01075 DATE STARTED 10/10/15
 PROJECT NAME ALLIANCE REALTY DATE COMPLETED 10/10/15
 DRILLING CONTRACTOR GREGG DRILLING LOCATION 2800 AND 2855 BROADWAY, OAKLAND, CA
 DRILLING METHOD DIRECT PUSH CASING TYPE/DIAMETER _____
 SAMPLING METHOD ACETATE SCREEN TYPE/SLOT _____
 GROUND ELEVATION _____ GRAVEL PACK TYPE _____
 TOP OF CASING _____ GROUT TYPE/QUANTITY _____
 LOGGED BY STIVALA DEPTH TO WATER AT TIME OF DRILLING _____
 CHECKED BY _____ GROUND WATER ELEVATION _____

PID (ppm)	SAMPLE ID.	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
		1 —			SURFACE: CONCRETE	
		2 —	ML		ML, SANDY SILT, REDDISH BROWN, DRY	
		3 —				3.0
		4 —			ML, CLAYEY SILT, BROWNISH YELLOW, DRY SLIGHT ODOR	
		5 —	ML			
		6 —				
		7 —				7.0
		8 —	CL		CL, GRAVELLY CLAY, BROWN, FINE GRAVEL WITH COBBLES, COBBLES ARE REDDISH, DRY NO ODOR	8.0
		9 —			CL, SILTY CLAY, BROWN, DY, MEDIUM PLASTICITY SLIGHT ODOR	
		10 —	CL			
		11 —				
		12 —				
		13 —				13.0
		14 —	CL		CL, CLAY, BROWN, MOIST, HIGH PLASTICITY ODOR	
		15 —			Bottom of borehole at 15.0 feet.	15.0

BORING/WELL CONSTRUCTION ALLIANCE REALTY OAKLAND - B-12 - B-14.GPJ ATC ASSOCIATES.GDT 12/11/15