CANVAS
(LENNAR MULTIFAMILY)

EXHIBIT "A"
Scope of Services

Basic Scope of Services – Onsite Construction Staking

A. *Horizontal and Vertical Control* - Referenced to horizontal & vertical control used to generate Civil Construction Documents. Semi-permanent control will be established throughout the site and differential levels will be run through all control to establish elevations. RM Meridian is proposing to prepare the site for the use of both Conventional (Robotic Total Station) and GPS survey instrumentation. RM Meridian is proposing to place permanent vertical control on fire hydrants and permanent structures around the site and along the top if the shoring wall. RM Meridian will supply the site superintendent with a Horizontal and Vertical control diagram for the points that have been set to support this project. As additional control is set through the project life cycle RM Meridian will update the control map and supply as needed. Note: Project Assumptions and Exclusions: The cost for horizontal and vertical control to support the construction staking and surveying for this site **does not** include performing a boundary survey on the site to establish lost or obliterated survey control monuments, property corners, or existing site benchmarks. If additional surveying services are requested by client or required by the local municipality, this task will be performed through a negotiated change order or on a time and materials basis

B. *Building Excavation Staking & Shoring Wall Staking* - Grade & alignment stakes for location of major grid lines to be used for the location of building excavation/over excavation and shoring walls. Benchmarks placed and marked to Garage top-of-slab level (nominal Architectural 84'-6" elevation) as well as Architectural 100'0". This task will be completed in two field mobilizations. The Design-level Geotechnical Engineering Report prepared by Pickering, Cole & Hivner, LLC. dated 10/20/2015 identifies that *"it is possible that demolition and excavation for the basement level will result in removal of a majority of any existing fill soils"*. RM Meridian will provide staking for excavation throughout the proposed building/parking garage location, and staking of the temporary shoring wall as recommended in the Design-level Geotechnical Engineering Report. RM Meridian will also provide grade offsets as required to reference design grade breaks.

Note: This task *does not* include monitoring of the proposed shoring wall. If continued surveying observations are required by the Engineer of Record to monitor potential movement of the shoring wall that task will be negotiated at the time of the request.

C. *Building Foundation / Garage Slab (Major Gridlines)* - Grade & alignment stakes for building foundation layout on major gridlines being offset to nearest intersecting gridline. Benchmarks placed and marked to Garage top-of-slab level (nominal Architectural 84'-6" elevation) as well as Architectural 100'0". Grid Line points will be placed in semi-permanent locations so they are preserved throughout construction of the foundation level. This task will include layout of elevator shafts and stair wells and is scheduled to be completed in four (4) field mobilizations.

D. *Residential Slab Grid Lines* - Grade & alignment stakes for building floor layout on major gridlines being offset to nearest intersecting gridline. Benchmarks placed and marked to Garage top-of-slab level (nominal Architectural 84'-6" elevation) as well as Architectural 100'0". This task will be performed prior to and after the placement of each level. There are seven levels associated with the building floor plan. This task is estimates to take 14 field mobilizations. Grid Line points will be placed in semi-permanent locations so they are preserved throughout construction.

E. *Utility Staking – Sanitary* - Grade & alignment stakes on offset at progressive intervals (sta 0, 25, 50, 75, 100, 150, 200…), manholes, cleanouts and end of services. Grades marked to invert of pipe.

F. *Utility Staking – Water* - Grade & alignment stakes on offset at approx. 50-foot intervals, including ends, angle points, intersections, fire hydrants, meters, and inline grades offset to end of services. Grades will be marked to top of pipe. Services will be staked to the end of service as shown in the Civil Plans.

G. *Utility Staking - Storm Sewer / Trench Drain* - Grade & alignment stakes on offset at progressive intervals (sta 0, 25, 50, 75,100, 150, 200…), inlets/outlets, and manholes. Inlets will be staked with offsets to outside of inlet on flowline. Grades marked to invert of pipe. This task includes placement and grading for the location of the proposed underground detention facility.

H. *Dry Utility Staking – Transformers, and Gas Line* - Grade & alignment stakes on offset for the locations of the centerline of the joint dry utility trench, and corners of transformer pads. Grades marked to finished grade of feature being staked. Note: There are no dry utility plans in place at this time. It is being assumed that this task will take three field mobilizations to complete the items listed above.

I. *Curb & Gutter and Cross Pan Staking* - Grade & alignment stakes on offset at 25-foot intervals, ends, angle points, PCs. Grades marked to top back of curb and flowline of cross pan.

J. *Detached Sidewalks and Concrete Flatwork* - Grade & alignment stakes on offset at 50-foot intervals, ends, angle points, PCs. Grades marked to top of finished concrete.

K. *Streetscape Planter Walls and Site Walls* - Grade & alignment stakes on offset for the corner locations for planter and stair walls, ends, angle points, and grade changes. Grades marked to top of wall.

L. *Pool, Spa & Pool Deck Layout* - Grade & alignment stakes for major corners of pool and spa and edge of concrete. This task will include additional staking for the location of the internal planter walls and architectural elements located within the pool and courtyard area. Grades marked to finished grade. *Note: This task does not include pool and spa drain, or pool deck area drain staking, if they are proposed.*

M. *Mezzanine Layout* - Grade & alignment stakes for major corners of Mezzanine improvements. This task will include additional staking for the location of the internal planter walls and architectural elements located within the Mezzanine area. Grades marked to finished grade.

N. *Wet Utility As-Built Survey* - On completion of wet utilities, prepare a certified survey showing dimensions, locations, angles, and elevations of sanitary, storm, and water. Survey will be signed and sealed by a Professional Land Surveyor licensed in the State of Colorado and will be provided to the Engineer of Record for their use in their submittal. *Note: This task excludes the as-built survey of the underground detention vaul*t.

O. *Detention Vault As-Built Survey* - On completion of the underground detention vault, prepare a certified survey showing dimensions, locations, angles, and elevations of the detention vault features. Survey will be signed and sealed by a Professional Land Surveyor licensed in the State of Colorado and will be provided to the Engineer of Record for their use in their submittal. *Note: This task excludes the as-built survey of all other wet utilities (sanitary, storm, and water)*.

P. *Office Computations* - Office computations, weekly meetings (if applicable) & preparation for staking. Assume AutoCAD files of final construction plans provided.