

**Table A  
Engineering & Construction  
FY16 FTE Request for Consultant Conversion Positions**

ATTACHMENT A

No. FTE	Cost Center	Project No.	Position Title	Job Description	Justification	QTR Needed	Priority (High-Medium-Low)	Internal/External	QCP
6	8410	860228—RG	Construction Inspector	<b>Construction Inspectors:</b> This position inspects each stage of construction of Regional Connector, track, tunnel and stations as well as all contractors activities to be in accordance with plans and specs. Program for non-compliance reports, maintains daily logs, monitor contractor testing activities, support construction safety functions, coordinates Metro tool lab activities and oversees DB inspection activities. Six (6) Positions are being filled at the time for Regional Connector project.	Construction Management Department does not have the personnel to assign to these activities at this point in time. Metro does not want to use consultants at this time due to the higher cost of consultants.	Q1	High	Internal/External	Yes
4	8410	860228—RG	Senior Construction Manager	<b>Senior Construction Managers:</b> This position oversees and manages rail facilities construction projects, oversees work to be accomplished according to project plans and is on schedule and within budget. Sets priorities for staff and oversees that staff are accomplishing assigned tasks. Two (2) positions are requested for the Regional Project.	Construction Management Department does not have the personnel to assign to these activities at this point in time. Metro does not want to use consultants at this time due to the higher cost of consultants.	Q1	High	Internal/External	Yes
2	8410	860228—RG	Senior Construction Manager	<b>Senior Construction Managers:</b> This position oversees and manages rail facilities construction projects, oversees work to be accomplished according to specification plans and is on schedule and within budget. Sets priorities for staff and oversees that staff are accomplishing assigned tasks. Two (2) positions are requested for the Regional Project.	The position is required to deliver quality capital projects on time and within budget. The Director position will be responsible for overseeing the work of lower level positions. Without the position, there is a risk of inadequate oversight.	Q1	High	Internal/External	Yes
4	8010	860228—RG	Director of Construction Management	This position is for the Regional Connector Project. This position is required to provide direction for the construction of the Project. Direct reports include the Senior Construction Manager and day to day management and allocation within the Construction Management Services Contractual. This position reports directly to the Project Manager.	The Regional Connector project has several structural elements that would require structural engineering reviews. Metro Engineering is expediting to receive a very large number of submittals that require our review. With the Design Builder already on board, a new position is needed in order to assist the project in review of all structural items on the project.	Q1	High	Internal/External	Yes
1	8320	860228—RG	Sr. Engineer (Structural)	To supervise structural items on the Regional Connector project.	The Regional Connector has several geotechnical elements that would require geotechnical engineering reviews. Metro Engineering is expediting to receive a very large number of submittals that require our review. With the Design Builder already on board on two of those projects and their aggressive schedule to start construction in the summer, a new position is needed in order to assist the project in review of the geotechnical items on those elements.	Q1	High	External	Yes
4	8320	860228—RG	Sr. Engineer (Geotechnical)	To supervise geotechnical items on the Regional Connector project.	An integrated System Integration Engineer is needed to support the Regional Connector project during design & construction. The Sr. Systems Integration Engineer is vital to ensure a seamless integration from New Systems to New Systems, New Systems to Existing Systems, New Systems to Facilities and Integrated Testing Test Plans, Field Testing etc.). An Integrated Risk System is vital for Metro's Operational needs.	Q1	Medium	External	Yes
4	8320	860228—RG	Sr. Engineer (Systems)	Supervise and manage all activities related systems integration on the Regional Connector project	Performs design document review, construction contact review, design and construction quality audits and surveillance, field inspection for the Regional Connector project as required, including laboratory and manufacturer audits and surveillance as directed by the Quality Assurance Manager. Arranges for Metro's verification test laboratory and coordinates the tests with inspection and Construction Management.	Q1	Medium	Internal	Yes
4	8110	860228—RG	Sr. Quality Engineer	Perform design document review, construction contact review, quality audits, surveillance, field inspection and monitoring of design for the Metrolink Project as required, including laboratory and manufacturer audits, surveillance and data analysis as directed.	Performs quality audits, surveillance, field inspection and monitoring of new construction modifications, as required, including monitoring of laboratory and manufacturer audits, surveillance and data analysis as directed. Coordinates with Director of Quality Management in the establishment, implementation and maintenance of Project Quality related goals, determination and management of budgetary, staffing requirements, implementation of Quality Program requirements for the Regional Connector project, and supervision of subordinate Quality Management staff assigned to the project.	Q1	Medium	Internal	Yes
4	8110	860228—RG	Quality Assurance Manager	Performs quality audits, surveillance, field inspection and monitoring of design, new construction modifications, as required, including monitoring of laboratory and manufacturer audits, surveillance and data analysis as directed. Coordinates with Director of Quality Management in the establishment, implementation and maintenance of Project Quality related goals, determination and management of budgetary, staffing requirements, implementation of Quality Program requirements for the Regional Connector project, and supervision of subordinate Quality Management staff assigned to the project.	Current recruitment is a consultant supporting full time in Measure R project. Over commitment, or sustainability related program. This is a conversion of full time seconded staff to regular Metro staff to reduce overall project delivery cost. Location per unit labor cost difference between seconded consulting staff and equivalent Metro position is up to 350%, depending on position.	Q1	High	Internal/External	Yes
16	Subtotal								

**Table A**  
**Engineering & Construction**  
**F146 FTE Request for Consultant Conversion Positions**

No. FTE	Cost Center	Project No.	Position Title	Job Description	Justification	QTR Needed	Priority (High-Medium-Low)	Internal/External	QCP
6	8410	866512 - CLAX	Senior Construction Inspector	Inspector - Southwest Yard(H). This position is for Southwestern Yard Project. The inspector will support the R.E. and be required to inspect and monitor installation of the work; review and prepare reports; review and interpret plans and specifications; ensure compliance with codes, standards and contract documents; assist in resolving problems in the field; coordinate work with other agencies. - <b>Inspector Systems (P.sash)</b> . This position is for Greenhaw/LAX Transit Project. The Systems Inspector will support the project R.E. and be required to inspect and monitor installation of the systems work; review and prepare reports; review and interpret plans and specifications; ensure compliance with codes, standards and contract documents; assist in resolving problems in the field; coordinate work with other agencies. - <b>Inspector MEP (P.sash)</b> . This position is for Greenhaw/LAX Transit Project. The MEP Inspector will support the project R.E. and be required to inspect and monitor installation of the mechanical, electrical and plumbing work; review and prepare reports; review and interpret plans and specifications; ensure compliance with codes, standards and contract documents; assist in resolving problems in the field; coordinate work with other agencies.	Construction Management Department does not have the personnel to assign to these activities at this point in time. Metro does not want to use consultants at this time due to the higher cost of consultants.	Q1	Medium	External	
4	8410	866512 - CLAX (Southwestern Yard)	Director of Construction Management	<b>Dir. Construction Manager, Yard Spoilbank</b> - This position is for Southwest Yard Project. The Dir. Construction Manager (Yard Spoilbank) will oversee the contractor's design and specification development, interfacing with Metro Engineering. During construction, the position will oversee the development of workplans, schedules and estimates; administer and monitor work for compliance with contract documents; coordinate with Metro staff and outside agencies; review change requests and prepare change notice justifications.	Construction Management Department does not have the personnel to assign to these activities at this point in time. Metro does not want to use consultants at this time due to the higher cost of consultants.	Q1	High	External	
4	8410	866512 - CLAX	Director of Construction Management	<b>Dir. Construction Manager</b> - This position is for Greenhaw/LAX Transit Project Segment B. This individual will oversee and manage construction development of workplans, schedules and estimates; administer and monitor work for compliance with contract documents; coordinate with Metro staff and outside agencies; review change requests and prepare change notice justifications.	Construction Management Department does not have the personnel to assign to these activities at this point in time. Metro does not want to use consultants at this time due to the higher cost of consultants.	Q1	High	External	
4	8410	866512 - CLAX	St-Construction Manager (SPECIALIST-SYSTEMS)	<b>RESIDENT ENGINEER ASSISTANT</b> This position is for Greenhaw/LAX Transit Project. The Senior Construction Manager will act as Assistant Structures Resident Engineer and be required to oversee and manage construction development of workplans, schedules, estimates and specifications; administer and monitor work for compliance with contract documents; coordinate with Metro staff and outside agencies; review change requests and prepare change notice justifications. The position reports to the Director Construction Management through a matrix organization.	This position requires a Structures specialist to support the Resident Engineers for the Mainline Greenhaw/LAX Project.	Q1	Medium	External	
4	8410	866512 - CLAX	St-Construction Manager (SPECIALIST-SYSTEMS)	<b>RESIDENT ENGINEER</b> This position is for Greenhaw/LAX Transit Project. The Senior Construction Manager will act as Systems Resident Engineer and be required to oversee and manage construction development of workplans, schedules, estimates and specifications; administer and monitor work for compliance with contract documents; coordinate with Metro staff and outside agencies; review change requests and prepare change notice justifications. The position reports to the Director Construction Management through a matrix organization.	This position requires a Systems specialist to support the Resident Engineers for the Mainline Greenhaw/LAX Project.	Q1	Low	External	
2	8410	866512 - CLAX 866003 - Southwestern Yard	Construction Manager	The Construction Managers will be required to analyze data, specifications and drawings; assist in monitoring work for compliance with schedule, budget, technical and legal requirements; prepare technical reports and correspondence; assist in coordination with outside agencies; maintain project records; monitor status of submittal and design reviews. The position reports to the Director Construction Management.	These positions are required to support the Office Engineer role for Greenhaw/LAX and the Southwestern Yard Projects.	Q2	Medium	External	
4	8320	866512 - CLAX	St-Engineer	To supervise structural teams on the Greenhaw Projects and support upper management on miscellaneous Metro Operation tasks.	The Greenhaw project has several structural elements including three underground stations, three cut and cover tunnels, two bridges, one pedestrian underpass, several at grade stations, support of excavations for underground stations and cut and cover tunnels and miles of retaining walls. Metro Engineering receives a very large number of submittals that require our review. Many a times these submittals are urgent and need to be reviewed immediately for incorporation in immediate construction activities. This supervising structural engineering position is needed to facilitate proper review of these submittals.	Q2	High	External	
4	8320	866512 - CLAX	St-Engineer (System)	Supervise and Manage all activities related Systems Integration on the Greenhaw/LAX project.	An experienced System Integration Engineers is needed to support the Greenhaw/LAX project during design & construction. The Systems Integration Engineer is vital to ensure a seamless integration from New Systems to Now Systems; New Systems to Existing Systems; Now Systems to Facilities and Migration Testing Test Plans; and Testing over 7 on integrated New Systems to that for Metro's Operational needs.	Q2	High	External	

No. FTE	Cost Center	Project No.	Position Title	Job Description	Justification	QTR Needed	Priority (High - Medium - Low)	Internal/External	QCP
1	8320	865612—CLAX	Sr-Engineer	Supervised the design of the emergency-Tunnel-ventilation and HVAC for major rail and CIP Projects (existing underground systems).	Currently Systems Engineer has only one Tunnel Ventilation engineer- which is insufficient to deal with the upcoming underground projects (Greenway, RG and PL E projects). The emergency ventilation of our rail lines in stations and in tunnels are paramount to a safe system. A second supervising engineer is a must for F+16.	Q2	Medium	External	
1	8420	865612—CLAX	Sr-Environmental Specialist	Assist in the execution of environmental compliance and sustainability for the Greenway/LAX Project.	Current incumbent is a consultant supporting full time in Measure R project- environmental- or sustainability related program. This is a conversion of full time seconded staff to regular Metro staff to reduce overall project delivery cost. Loaded per unit labor cost difference between seconded consulting staff and equivalent Metro position is up to 350% - depending on position.	Q1	High	External	
1	8420	865612—CLAX	Sr-Environmental Specialist	Assist in the execution of environmental compliance and sustainability for the Greenway/LAX Project.	Current incumbent is a consultant supporting full time in Measure R project- environmental- or sustainability related program. This is a conversion of full time seconded staff to regular Metro staff to reduce overall project delivery cost. Loaded per unit labor cost difference between seconded consulting staff and equivalent Metro position is up to 350% - depending on position.	Q1	High	External	
1	8110	865612—CLAX	Sr-Quality Engineer	The Sr-Quality Engineer will be required to coordinate with construction reporters and monitor field construction activities- coordinate verification testing- evaluate quality performance.	Perform design document review, construction contract review, design and construction quality audits and surveillance; field inspection for the project as required, including laboratory and manufacturer audits and surveillance; and coordinate the field with inspectors for Metro's verification test laboratory and coordinate the field with inspectors for construction management.	Q1	High	External	
<b>17 Subtotal</b>									
1	8010	865618—WPL1	Sr-Administrative Analyst	The position is for Section 2 of the Westside Purple Line Extension Project. The Sr-Administrative Analyst will provide administrative support to project staff and assistance in managing an Integrated Project Management Office (IPMO). This position will report to the Project Manager.	This position is required to support project staff and to assist in managing the IPMO. This position will also be responsible for issuing project management Management Plan (PMP), monthly and quarterly project reports and presentations. This position will also assist the CEO Project Center in coordinating with various Metro Departments to obtain documentation necessary to receive an FCGA.	Q1	Low	Internal/External	
1	8420	865622—WPL2	Principal-Environmental Specialist	Assist in the execution of environmental compliance and sustainability related projects of the Purple Line Extension.	Current incumbent is a consultant supporting full time in Measure R project- environmental- or sustainability related program. This is a conversion of full time seconded staff to regular Metro staff to reduce overall project delivery cost. Loaded per unit labor cost difference between seconded consulting staff and equivalent Metro position is up to 360% - depending on position.	Q1	High	Internal/External	
1	8010	865622—WPL2	Sr-Engineering Manager	This position is for Section 2 of the Westside Purple Line Extension Project. The position is required to provide direction for the engineering of the Project. The Senior Engineering Manager will provide day to day management and interaction with the Engineering Management Services Consultant. This position reports directly to the Director Engineering.	This position is required to deliver quality capital projects on time and within budget. On December 31, 2014, The Federal Transit Administration (FTA) approved Metro's request for Section 2 of the Westside Purple Line Extension Project to enter the New Starts Engineering Phase of the FTA Capital Investment Grant Program. This is one of the major steps towards obtaining a Fund Funding Grant Agreement (FFGA) for the Project, which is planned for mid-2016. Another major step in obtaining an FFGA is to provide adequate staff to meet FTA's expectations on technical capacity and capabilities to bring the Project on time and within budget. It is expected that the Advanced Preliminary Engineering will comprise at F+16 to support the issuance of the Design/Build RFP procurement.	Q1	High	Internal/External	
1	8110	865618—WPL1	Sr-Construction Inspector	Perform quality audits, surveillance, field inspection and monitoring of design, new construction, modifications, as required, including monitoring of laboratory and manufacturer audits, surveillance and data analysis as directed.	Perform quality field surveillance, monitoring of new construction, modifications, as required, including monitoring of testing laboratory and manufacturer audits, surveillance and data analysis for the Purple Line Extension, Section 1 as directed by the Quality Assurance Manager.	Q1	Medium	Internal	
<b>4 Subtotal</b>									
<b>37 Grand Total</b>									

\*These positions have been approved by the Board at the May 28, 2015 Special Board Meeting - FY 16 Budget.