

INVITATION TO BID
OFFICE OF THE CENTRAL FLORIDA EXPRESSWAY AUTHORITY
ORLANDO, FLORIDA



Sealed Bids for the work generally described below will be received on March 26, 2015, in the headquarters office of the Central Florida Expressway Authority, 4974 ORL Tower Road Orlando, Florida 32807 until 1:30 p.m., Orlando local time, as shown on the time/date stamp clock at the receptionist's desk in the lobby. The clock will serve as the official instrument to determine when a bid is received. A submittal that is clocked in after the date/time specified will be rejected and not accepted. Rejection of a submittal under those circumstances shall not be the basis of a protest pursuant to the Authority's Procedure for Resolution of Protests.

**S.R. 429 FROM US 441 TO NORTH OF PONKAN ROAD
PROJECT NO. 429-202; CONTRACT NO. 001060**

The work consists of providing all labor, materials, equipment and incidentals necessary to construct S.R. 429 roadway and bridges from US 441 to north of Ponkan Road in Orange County, Florida (the "Project").

The Contract time for this project will be 660 calendar days.

At the time of Bid submittal, Bidder as the "prime" contractor must be prequalified by the Florida Department of Transportation under Administrative Rule 14-22, Florida Administrative Code in the following work classes: Major Bridge – Cast in Place/Post-Tensioned/Super-Structure or Major Bridge – Concrete Segmental Construction; and the combination of Grading, Drainage and Flexible Paving at the time of bid submittal.

A copy of the Bidder's current Certificate of Qualification in the specified classes of work shall be submitted with the Bid. Failure to submit the certificate may result in rejection of the Bid. Bidder shall use prequalified subcontractors for all classes of work for which the Bidder is not prequalified that exceed \$250,000 in value.

It is also a requirement that the toll gantry work be performed by a company certified at the time of Bid submittal by the State of Florida Department of Business and Professional Regulation Construction Industry Licensing Board as either a Certified General Contractor or Certified Building Contractor. This can be the contractor, subcontractor, a joint venture member or partner. A copy of the current Certificate of Qualification shall be submitted with the Bid. Failure to submit the certificate may result in rejection of the Bid.

The Central Florida Expressway Authority, in accordance with the Provisions of Title VII of the Civil Rights Act of 1964, as amended, 42 U.S.C. § 2000e et seq., the Florida Civil Rights Act of 1992, as amended, § 760.10 et seq., Fla. Stat. (1996), and other federal and state discrimination statutes, prohibits discrimination on the basis of race, color, sex, age, national origin, religion, and

disability or handicap. The Authority notifies all Bidders and individuals it requires and encourages equal employment opportunity for minority and women as employees and subcontractors.

The Authority is receiving a loan from the U.S. Department of Transportation Federal Highway Administration under the Transportation Infrastructure Finance and Innovation Act (TIFIA) program to construct this project. Pursuant to the requirements for this loan, the Authority is required to have a Disadvantaged Business Enterprise (DBE) Program in place to comply with applicable laws and regulations. To meet this requirement, the Authority has adopted the Florida Department of Transportation's DBE program for this solicitation (<http://www.dot.state.fl.us/equalopportunityoffice/DBEProgram.shtm>). The Authority's M/WBE program will not apply. The race neutral goal set for this project is 9.91%.

From the first date of publication of this invitation, no person may contact any Authority Board Member, Officer or Employee with respect to this invitation or the services to be provided. Reference is made to the lobbying guidelines of the Authority for further information regarding this Non-Solicitation Provision.

All work shall be done in accordance with the Bidding Documents of the Central Florida Expressway Authority.

It is the Authority's intent to award the project to the lowest responsive and responsible Bidder. The Authority specifically reserves the right to take a Bidder's past performance with the Authority (and others) into consideration in determining whether the Bidder and Bid are responsive, responsible and qualified and most advantageous to the Authority.

By submitting its Bid, the Bidder is signifying its awareness and understanding that the Bid process will be subject in all respects to the provisions of applicable laws, rules and regulations and the policies of the Authority (as they may be amended or modified from time to time).

Pursuant to Florida Statutes, Section 119.07(1), upon the earlier to occur of (i) Authority's Notice of Award of the contract, or (ii) thirty days after Bid opening, all Bids submitted pursuant to this Invitation to Bid (including all components thereof and all other materials submitted in connection therewith) shall become public records. Thereafter (with very limited exceptions) all Bids, proposals, documents, letters, software and other materials submitted to the Authority by on behalf of any Bidder (including material that a Bidder may consider confidential or proprietary) may be inspected, examined and copied by any person desiring to do so in accordance with Florida Statutes, Chapter 119. It is not necessary for any person to obtain the consent of the Authority, or the Bidder, to exercise its right under Chapter 119.

Any Bidder adversely affected by: (i) Bid specifications, (ii) a notice of an intended decision (including, but not limited to, a Notice of Intent to Award or Notice of Intent to Reject), or (iii) a decision (including, but not limited to a Notice of Award of Contract), who desires to protest must comply with the proper procedures in the Central Florida Expressway Authority's Procedure for Resolution of Protests, Rule Chapter 3-1, which is available for review upon request at the

Authority's Office, 4974 ORL Tower Road, Orlando, Florida. Failure to comply with Rule Chapter 3-1 shall constitute a waiver of any right to initiate protest proceedings. A protest bond in the amount of \$5,000.00 is required to protest the Bid package or Bid solicitation. A protest bond in the amount of \$5,000.00, or 1% of the lowest bid submitted, whichever is greater, will be required to protest a Notice of Intent to Award or Notice of Intent to Reject.

The Bidding Documents for this Project consist of the specifications and the construction plans set which may be downloaded from www.oocaa.com/DoingBusinessWithUs/Procurement/ProcurementAccountLogineProcurementRegistrati.aspx commencing , February 9, 2015. Registration is required in order to download.

A pre-bid meeting will be held on February 23, 2015, beginning at 2:00 p.m., in the Authority's office at the address shown above. The purpose of the meeting will be to discuss requirements of the project in an open forum. Although not mandatory, attendance at the pre-bid meeting is highly recommended. Each Bid must be submitted in a separate sealed envelope with the name of the Bidder, Bidder's address, and the project number written on the outside. For information and question submission concerning this project during the Bidding process, email: constructionproject429-202@oocaa.com

Proposals must be accompanied by a Proposal Guaranty or Cashier's Check, made payable to the Central Florida Expressway Authority, of not less than five percent (5%) of the total Bid. The Guaranty shall be forfeited as liquidated damages if the Proposal is accepted and the Successful Bidder fails to execute the Contract under the conditions of the Proposal and said guaranty will be returned to the Successful Bidder upon the delivery of a satisfactory Public Construction Bond.

All Bids shall remain open for acceptance by the Authority for ninety (90) calendar days after the day of the Bid opening. The right is reserved by the Authority to reject any or all Bids.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Claude Miller
Director of Procurement

* ORIGINAL QUANTITIES *
CFX PROJECT NO. 429-202; CONTRACT NO. 001060
SR 429 WEKIVA PARKWAY
FROM NORTH OF S.R. 500 (U.S. 441) TO NORTH OF PONKAN ROAD

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
101-1	1	LS	MOBILIZATION
102-1	1	LS	MAINTENANCE OF TRAFFIC
102-99	100	ED	PORTABLE CHANGEABLE MESSAGE SIGN (TEMPORARY)
104-20	1	LS	EROSION CONTROL
107-1-1	1	LS	LITTER REMOVAL AND DISPOSAL
107-2-1	1	LS	MOWING (FLAT & SLOPE)
110-1-1	1	LS	CLEARING & GRUBBING
120-1	1,197,154	CY	REGULAR EXCAVATION
120-4	43,967	CY	SUBSOIL EXCAVATION
120-6	1,131,973	CY	EMBANKMENT
120-74	6,982	CY	SURCHARGE EMBANKMENT
121-70	57	CY	FLOWABLE FILL
141-70	6	AS	SETTLEMENT PLATE ASSEMBLY
160-4	135,942	SY	TYPE "B" STABILIZATION
173-76	845	LF	GROUT PIPE INSTALLATION
173-77-1	350.0	CY	PRESSURE GROUTING
285-701	1,733	SY	BASE GROUP 1 (4" LIMEROCK LBR 100)
285-702	3,759	SY	BASE GROUP 2 (5" LIMEROCK LBR 100)
285-704	9,432	SY	BASE GROUP 4 (6" LIMEROCK LBR 100)
285-705	36,595	SY	BASE GROUP 5 (7" LIMEROCK LBR 100)
285-706	969	SY	BASE GROUP 6 (8" LIMEROCK LBR 100)
285-709	4,765	SY	BASE GROUP 9 (10" LIMEROCK LBR 100)
285-711	64,034	SY	BASE GROUP 11 (12" LIMEROCK LBR 100)
327-70-1	249	SY	MILLING EXIST ASPH PAVT, 1" AVG DEPTH
327-70-6	9,190	SY	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH
327-70-19	15,562	SY	MILLING EXIST ASPH PAVT, 3/4" AVG DEPTH
334-1-11	814.9	TN	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC A)
334-1-12	3,384.0	TN	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC B)
334-1-13	459.1	TN	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC C)
334-1-14	6,455.7	TN	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC D)
334-1-23	735.1	TN	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC C) (PG 76-22)
334-1-24	7,370.8	TN	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC D) (PG 76-22)
337-7-22	19,432.0	TN	ASPH. CONC. FRICTION COURSE (3/4") (FC-5) (PG76-22) (BLACK GRANITE)
337-7-33	1,015.8	TN	ASPH. CONC. FRICTION COURSE TRAFFIC C (FC-12.5), RUBBER
339-1	1,046.2	TN	MISCELLANEOUS ASPHALT PAVEMENT
400-0-11	293.6	CY	CONCRETE CLASS NS, GRAVITY WALL
400-1-2	26.6	CY	CLASS I CONCRETE (ENDWALLS)
400-1-15	100.0	CY	CLASS I CONCRETE (MISCELLANEOUS)
400-2-4	5015.4	CY	CONCRETE CLASS II (SUPERSTRUCTURE)
400-2-10	1,289.8	CY	CONCRETE CLASS II (APPROACH SLABS)
400-2-11	189.5	CY	CONCRETE CLASS II (RETAINING WALLS)
400-4-5	634.5	CY	CONCRETE CLASS IV (SUBSTRUCTURE)
400-4-25	5,407.4	CY	CONCRETE CLASS IV (MASS-SUBSTRUCTURE)
400-7	1,359.0	SY	BRIDGE DECK GROOVING (DECK THICKNESS < 8.5")
400-9	15,257.0	SY	BRIDGE DECK GROOVING AND PLANING (DECK THICKNESS >= 8.5")
400-10	1	LS	PRECAST PANEL ARCHITECTURAL (COLUMNS)
400-10A	1	LS	PRECAST PANEL ARCHITECTURAL (LOW AREA)
400-10B	1	LS	PRECAST PANEL ARCHITECTURAL (CLOSURE WALL)
400-16-22	399.6	CY	CONCRETE CLASS VI (SPliced U-BEAMS-CLOSURE POURS AND DIAPHRAMS)
400-147	76.6	CF	COMPOSITE NEOPRENE PADS
415-1-1	1,072	LB	REINFORCING STEEL (ROADWAY)
415-1-3	14,784	LB	REINFORCING STEEL (RETAINING WALLS)
415-1-4	1,600,515	LB	REINFORCING STEEL (SUPERSTRUCTURE)
415-1-5	1,146,360	LB	REINFORCING STEEL (SUBSTRUCTURE)
415-1-6	17	LB	REINFORCING STEEL (MISCELLANEOUS)
415-1-9	248,485	LB	REINFORCING STEEL (APPROACH SLABS)
425-1-311	31	EA	INLET (CURB) (TYPE P-1) (<10')
425-1-312	4	EA	INLET (CURB) (TYPE P-1) >10'
425-1-321	4	EA	INLET (CURB) (TYPE P-2) (<10')
425-1-331	1	EA	INLET (CURB) (TYPE P-3), <10'
425-1-332	1	EA	INLET (CURB) (TYPE P-3), >10'
425-1-351	1	EA	INLET (CURB) (TYPE P-5), <10'
425-1-411	1	EA	INLET (CURB) (TYPE J-1) (<10')
425-1-452	2	EA	INLET (CURB) (TYPE J-5) (>10')
425-1-462	1	EA	INLET (CURB) (TYPE J-6) (>10')
425-1-511	23	EA	INLETS, DT BOT, TYPE B, <10'
425-1-512	2	EA	INLETS, DT BOT, TYPE B, >10'
425-1-513	6	EA	INLETS, DT BOT, TYPE B, J-BOT. <10'
425-1-519	1	EA	INLETS, DT BOT, TYPE B, MODIFY
425-1-701	39	EA	INLET (GUTTER TYPE S) <10'
425-1-702	2	EA	INLET (GUTTER TYPE S) >10'
425-1-703	3	EA	INLET (GUTTER TYPE S), J-BOT. <10'
425-1-704	1	EA	INLET (GUTTER TYPE S), J-BOT. >10'

425-1-891	18	EA	INLET (BARRIER WALL) (TYPE 218) (<10')
425-1-894	3	EA	INLET (BARRIER WALL) (TYPE 218) (J-BOT.)(>10')
425-1-895	1	EA	INLET (BARRIER WALL) (PARTIAL)
425-2-61	4	LF	MANHOLE (TYPE P-8) (<10')
425-2-62	3	LF	MANHOLE (TYPE P-8) (>10')
425-2-91	3	LF	MANHOLE (TYPE J-8) (<10')
425-3-41	1	EA	JUNCTION BOX, DRAINAGE, P-7, <10'
425-10	2	EA	YARD DRAIN
430-173-118	707	LF	PIPE CULVERT, 18" GUTTER DRAIN
430-173-136	116	LF	PIPE CULVERT, 36" GUTTER DRAIN
430-174-118	37	LF	PIPE CULVERT, RND, 18" SIDE DRAIN
430-174-218	207	LF	PIPE CULVERT, OTHER SHAPE, 18" SIDE DRAIN
430-175-115	363	LF	PIPE CULVERT, RND, 15" STORM AND CROSS DRAIN
430-175-118	8,326	LF	PIPE CULVERT, RND, 18" STORM AND CROSS DRAIN
430-175-124	2,891	EA	PIPE CULVERT, RND, 24" STORM AND CROSS DRAIN
430-175-130	603	EA	PIPE CULVERT, RND, 30" STORM AND CROSS DRAIN
430-175-136	375	EA	PIPE CULVERT, RND, 36" STORM AND CROSS DRAIN
430-175-148	113	EA	PIPE CULVERT, RND, 48" STORM AND CROSS DRAIN
430-611-125	1	EA	U-ENDWALL (WITH BAFFLES) (1:4) 18"
430-611-225	5	EA	U-ENDWALL (WITH BAFFLES) (1:3) 18"
430-946	2,743	LF	VIDEO TAPING OF EXISTING DRAINAGE SYSTEMS
430-963-1	235	LF	PIPE, POLYVINYL CHLORIDE (SCHEDULE 40) (NOT ENCASED) (4")
430-963-2	115	LF	PIPE, POLYVINYL CHLORIDE (SCHEDULE 40) (NOT ENCASED) (12")
430-982-123	2	EA	MITERED END SECTION (ROUND) 15" CD
430-982-125	6	EA	MITERED END SECTION (ROUND) 18" CD
430-982-129	4	EA	MITERED END SECTION (ROUND) 24" CD
430-982-133	3	EA	MITERED END SECTION (ROUND) 30" CD
430-982-138	3	EA	MITERED END SECTION (ROUND) 36" CD
430-984-125	2	EA	MITERED END SECTION (ROUND) 18" SD
430-984-625	8	EA	MITERED END SECTION (OTHER SHAPE) 18" SD
436-1-1	20	LF	TRENCH DRAIN, STANDARD
450-1-7	1,986	LF	PRESTRESSED BEAMS (SPECIAL - RECTANGULAR HAUNCHED BEAM)
450-1-7A	2,814	LF	PRESTRESSED BEAMS (SPECIAL - SPLICED U-BEAM)
450-2-36	907	LF	PRESTRESSED BEAMS (FIB 36)
450-2-45	5,738	LF	PRESTRESSED BEAMS (FIB 45)
450-2-54	1,214	LF	PRESTRESSED CONCRETE BEAMS (FIB 54)
450-4-4	870	LF	PRESTRESSED BEAMS (FIB 72)
455-34-3	44,194	LF	PRESTRESSED CONCRETE PILING (18" SQ.)
455-35-22	7,490	LF	PILES - STEEL (24" DIA.)
455-133-2	4,482	SF	SHEET PILING (STEEL, TEMPORARY CRITICAL)
455-143-3	4,370	LF	TEST PILES - PRESTRESSED CONCRETE (18" SQ.)
455-144-22	1,860	LF	TEST PILES - STEEL (24" DIA.)
458-1-11 NR	1,043	LF	BRIDGE DECK EXPANSION JOINT (NEW CONSTRUCTION- F&I) (POURED JOINT WITH BACKER ROD)
458-1-12 NR	226	LF	BRIDGE DECK EXPANSION JOINT (NEW CONSTRUCTION) (F&I STRIP SEAL)
459-71	2,478	SY	PILES, POLYETHYLENE SHEETING
460-9-1	12	EA	ACCESS HATCH ASSEMBLY
461-113-17	6	EA	MULTI ROTATIONAL BEARING ASSEMBLY - FIXED, (F&I), (1501 - 1750 KIPS)
461-114-13	12	EA	MULTI ROTATIONAL BEARING ASSEMBLY - EXPANSION, (F&I), (501 - 750 KIPS)
461-114-17	6	EA	MULTI ROTATIONAL BEARING ASSEMBLY - EXPANSION, (F&I), (1501 - 1750 KIPS)
462-2-11	227,586	LB	POST TENSIONING TENDONS (SUPERSTRUCTURE STRAND)
506-2	612	LF	BRIDGE DRAINAGE PIPING
506-3	7	EA	BRIDGE DRAINS
520-1-7	1,111	LF	CONCRETE CURB & GUTTER, TYPE E
520-1-10	7,889	LF	CONCRETE CURB & GUTTER, TYPE F
520-6	8,149	LF	SHOULDER GUTTER, CONCRETE
521-1	193	LF	MEDIAN CONCRETE BARRIER WALL
521-5-1	3,899	LF	CONCRETE TRAFFIC RAILING BARRIER - BRIDGE (32" F-SHAPE)
521-5-4	1044.000	LF	CONCRETE TRAFFIC RAILING BARRIER - BRIDGE (32" VERTICAL-SHAPE)
521-5-9	3,377	LF	CONCRETE TRAFFIC RAILING BARRIER - BRIDGE (SPECIAL DESIGN)
521-8-1	2,372	LF	CONCRETE TRAFFIC RAILING BARRIER (RETAINING WALL 32" F SHAPE) W/ JUNCTION SLAB
521-72-3	488	LF	SHOULDER CONCRETE BARRIER WALL (RIGID - SHOULDER)
521-72-4	216	LF	SHOULDER CONCRETE BARRIER WALL (RIGID - RETAINING)
521-72-5	284	LF	CONCRETE BARRIER WALL (RIGID - CURB & GUTTER)
522-1	5,011	SY	CONCRETE SIDEWALK, 4" THICK
522-2	322	SY	CONCRETE SIDEWALK, 6" THICK
524-1-19	1,772	SY	CONCRETE DITCH PAVT, 3", REINFORCED
524-2-2	415.000	SY	CONCRETE SLOPE PAVEMENT 4" (NON-REINFORCED)
527-2	176	SF	DETECTABLE WARNINGS
530-3-4	194.1	TN	RIPRAP, RUBBLE, DITCH LINING
536-1-1	13,478	LF	GUARDRAIL (ROADWAY)
536-1-3	412	LF	GUARDRAIL (ROADWAY) (DOUBLE FACE)
536-85-22	14	EA	GUARDRAIL END ANCHORAGE ASSEMBLY (TYPE FLARE) (SRT-350 ONLY)
536-85-24	6	EA	GUARDRAIL END ANCHORAGE ASSEMBLY (TYPE PARALLEL)
536-85-25	10	EA	GUARDRAIL END ANCHORAGE ASSEMBLY (TYPE II)
536-8	34	EA	GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY (F&I)
544-75-14 NR	1	EA	VEHICULAR IMPACT ATTENUATOR (QUADGUARD / TAU II) (70 MPH DESIGN SPEED)
546-72-51	7.9	PM	RUMBLE STRIP (GROUND-IN) (16" MIN. WIDTH)
548-12	147392	SF	RETAINING WALL SYSTEM (MSE PERMANENT)
550-10-212	2,952	LF	FENCING (TYPE B) (4) (BLACK VINYL)
550-10-222	26913.0	LF	FENCING (TYPE B) (6) (BLACK VINYL)
550-10-344	522.000	LF	FENCING, TYPE R, 7.1-8.0', W/PARTIAL ENCLOSURE

550-10-949	522	LF	FENCING, SPECIAL TYPE, 7.1-8.0', SPECIAL FEATURES
550-60-211	3	EA	FENCING (TYPE B) (SINGLE), 0-6.0' OPENING
550-60-224	20	EA	FENCING (TYPE B) (DOUBLE), 18.1-20.0' OPENING
550-60-226	1	EA	FENCING (TYPE B) (DOUBLE), 24.1-30.0' OPENING
570-1-1	41,676	SY	PERFORMANCE TURF (SEEDING)
570-1-2	389,597	SY	PERFORMANCE TURF (SOD)
571-1-12	199	SY	PLASTIC EROSION MAT, TRM, TYPE 2
612-100	1	LS	GEOLOCATION OF ITS EQUIPMENT & INFRASTRUCTURE
630-2-11	10,791	LF	CONDUIT (PVC SCHEDULE 40 - 2"), F&I, OPEN TRENCH
630-2-12	205	LF	CONDUIT, F&I, DIRECTIONAL BORE
632-7-1	1	PI	SIGNAL CABLE (F&I)
633-121-2 NR	881	LF	FIBER OPTIC CABLE (12-STRAND FIBER) (F&I)
633-121-4 NR	69,676	LF	FIBER OPTIC CABLE (72-STRAND FIBER) (F&I)
633-141-3 NR	9	EA	FIBER OPTIC SPLICE ENCLOSURE (72 SPLICE) (F&I)
633-141-4 NR	744	EA	FIBER OPTIC FUSION SPLICE
635-1-11	10	EA	PULL BOX (F&I)
635-1-15	5	EA	SMALL FIBER OPTIC PULL BOX (F&I)
635-2-11	69	EA	PULL & SPLICE BOX (F&I) (13"X24" COVER SIZE)
638-001-0211	371	LF	FIBER OPTIC CONDUIT, 2-1" HDPE/SDR 11, TRENCH OR PLOW
638-001-0911	20,803	LF	FIBER OPTIC CONDUIT, 9-1" HDPE/SDR 11, TRENCH OR PLOW
638-260-0011 NR	2,849	LF	FIBER OPTIC, 6" SPLIT BSP SLEEVE (TRENCH OR PLOW)
638-361-0911	592	LF	FIBER OPTIC CONDUIT, 6" PVC OUTER DUCT W/ 9-1" HDPE/ SDR 11, TRENCH OR PLOW
638-461-0914 NR	2,651	LF	FIBER OPTIC CONDUIT, 6" BULLET-RESISTIVE FIBERGLASS OUTER DUCT W/ 9-1" HDPE/SDR 11, INSTALL ON BRIDGE
639-3-11	4	EA	ELECTRICAL SERVICE DISCONNECT, (F&I), POLE MOUNT
646-1-11	6	EA	ALUMINUM SIGNALS POLE, PEDESTAL (F&I)
650-1-311	7	AS	SIGNAL TRAFFIC (F&I) (3 SECT 1 WAY) (ALUMINUM)
653-191	4	AS	PEDESTRIAN SIGNAL (F&I) (LED-COUNTDOWN, 1 DIR)
659-109	1	EA	SYSTEMS AUXILIARIES (F&I) (CONCRETE PEDESTAL, TYPE II)
660-1-109	1	EA	LOOP DETECTOR INDUCTIVE (F&I) (TYPE 9)
660-2-102	4	AS	LOOP ASSEMBLY (F&I) (TYPE B)
660-2-106	6	AS	LOOP ASSEMBLY (F&I) (TYPE F)
663-74-141 NR	2	EA	DCS FIELD EQUIPMENT 1 LANES (F&I)
663-74-142 NR	1	EA	DCS FIELD EQUIPMENT 2 LANES (F&I)
664-1-140 NR	1	EA	TRAFFIC MONITORING STATION - POLE MOUNTED (F&I)
664-3-141	1	EA	TRAFFIC MONITORING STATION POLE-40' POLE (FURNISH & INSTALL)
665-11	4	EA	PEDESTRIAN DETECTOR INDUCTIVE (F&I) (POLE)
668-13	2	EA	TYPE 170 CABINET (POLE MOUNTED) (F&I)
668-13A NR	2	EA	SURGE PROTECTION DEVICE
670-5-410	1	AS	TRAFFIC CONTROLLER ASSEMBLY (MODIFY) (NEMA)
678-1-111 NR	4	EA	CONTROLLER ACCESSORIES, F&I, POWER REDUCTION ASSEMBLY
683-101 NR	2	EA	ETHERNET SWITCH (F&I)
683-103 NR	2	EA	TERMINAL SERVER (F&I)
683-105 NR	2	EA	FIBER OPTIC PATCH PANEL-12 PORT (F&I)
683-106 NR	4	EA	FIBER OPTIC PATCH PANEL-72 PORT (F&I)
683-110	8	EA	CUT-TO-LENGTH FIBER OPTIC JUMPER (F&I)
685-101 NR	2	EA	UNINTERRUPTIBLE POWER SUPPLY (F&I)
685-101A	2	EA	REMOTE POWER MANAGER (F&I)
685-103	2	EA	CABINET / ENVIRONMENTAL MONITOR (F&I)
700-1-11 NR	18	AS	SINGLE POST SIGN, F&I, UP TO 12 SF.
700-1-12 NR	10	AS	SINGLE POST SIGN, F&I, 12-20 SF.
700-1-13 NR	5	AS	SINGLE POST SIGN, F&I, 21-30 SF.
700-1-14 NR	5	AS	SINGLE POST SIGN, F&I, 31+ SF.
700-1-31 NR	2	AS	SINGLE POST SIGN, F&I, BRIDGE MOUNT, UP TO 12 SF
700-1-50	1	AS	SINGLE POST SIGN, RELOCATE
700-1-60	15	AS	SINGLE POST SIGN, REMOVE
700-2-12 NR	4	AS	MULTI-POST SIGN, F&I, 12-20 SF.
700-2-15 NR	1	AS	MULTI-POST SIGN, F&I, 51-100 SF.
700-2-16 NR	5	AS	MULTI-POST SIGN, F&I, 101-200 SF.
700-2-17 NR	1	AS	MULTI-POST SIGN, F&I, 201-300 SF.
700-2-18 NR	1	AS	MULTI-POST SIGN, F&I, 301-400 SF.
700-2-60	3	AS	MULTI-POST SIGN, REMOVE
700-3-102 NR	1	EA	SIGN PANEL, F&I, GROUND MOUNT, 12-20 SF., OVERLAY
700-3-201A NR	1	EA	SIGN PANEL, F&I, OVERHEAD, UP TO 12 SF., OVERLAY
700-3-202 NR	6	EA	SIGN PANEL, F&I, OVERHEAD, 12-20 SF.
700-3-204 NR	1	EA	SIGN PANEL, F&I, OVERHEAD, 31-50 SF.
700-3-205 NR	3	EA	SIGN PANEL, F&I, OVERHEAD, 51-100 SF.
700-3-226 NR	6	EA	SIGN PANEL, F&I, OVERHEAD, 101-200 SF. W/ LIGHTING
700-3-227 NR	1	EA	SIGN PANEL, F&I, OVERHEAD, 201-300 SF. W/ LIGHTING
700-3-228 NR	5	EA	SIGN PANEL, F&I, OVERHEAD, 301-400 SF. W/ LIGHTING
700-3-229 NR	2	EA	SIGN PANEL, F&I, OVERHEAD, 401-500 SF. W/ LIGHTING
700-3-230 NR	1	EA	SIGN PANEL, F&I, OVERHEAD, 501-600 SF. W/ LIGHTING
700-3-231 NR	3	EA	SIGN PANEL, F&I, OVERHEAD, 601 SF >. WITH LIGHTING
700-3-301A NR	1	EA	SIGN PANEL, F&I, BRIDGE MOUNT, UP TO 12 SF., OVERLAY
700-3-301B NR	8	EA	SIGN PANEL, F&I, BRIDGE MOUNT, UP TO 12 SF.
700-3-302B NR	4	EA	SIGN PANEL, F&I, BRIDGE MOUNT, 12-20 SF.
700-3-601	3	EA	SIGN PANEL, REMOVE PANEL, UP TO 12 SF.
700-3-626	2	EA	SIGN PANEL, REMOVE PANEL, 101-200 SF. W/ LIGHTING
700-3-627	1	EA	SIGN PANEL, REMOVE PANEL, 201-300 SF. W/ LIGHTING
700-3-628	2	EA	SIGN PANEL, REMOVE PANEL, 301-400 SF. W/ LIGHTING
700-3-629	1	EA	SIGN PANEL, REMOVE PANEL, 401-500 SF. W/ LIGHTING
700-3-630	2	EA	SIGN PANEL, REMOVE PANEL, 501-600 SF. W/ LIGHTING

700-4-111	1	EA	OVERHEAD STATIC SIGN STRUCTURE, F&I, UP TO 20 LF.
700-4-113	1	EA	OVERHEAD STATIC SIGN STRUCTURE, F&I, CANTILEVER, 31-40 LF.
700-4-114	4	EA	OVERHEAD STATIC SIGN STRUCTURE, F&I, CANTILEVER, 41-50 LF.
700-4-126	1	EA	OVERHEAD STATIC SIGN STRUCTURE, F&I, SPAN, 101-150 LF.
700-4-514	1	EA	OVERHEAD STATIC SIGN STRUCTURE, RELOCATE, CANTILEVER
700-4-610	1	EA	OVERHEAD STATIC SIGN STRUCTURE, REMOVE, CANTILEVER
700-12-32	1	AS	SIGN BEACON, F&I, OVERHEAD, TWO BEACONS
706-3 NR	1,997	EA	RETRO-REFLECTIVE PAVEMENT MARKER
711-11-111	0.656	NM	THERMOPLASTIC, STD, WHITE, SOLID, 6"
711-11-123	166	LF	THERMOPLASTIC, STD, WHITE, SOLID, 12"
711-11-125	257	LF	THERMOPLASTIC, STD, WHITE, SOLID, 24"
711-11-131	0.370	GM	THERMOPLASTIC, STD, WHITE, SKIP, 6"
711-11-151	413	LF	THERMOPLASTIC, STD, WHITE, DOTTED GUIDELINE
711-11-160	23	EA	THERMOPLASTIC, STD, WHITE, MESSAGE
711-11-170	59	EA	THERMOPLASTIC, STD, WHITE, ARROW
711-11-180	20	LF	THERMOPLASTIC, PREFORMED, WHITE, YIELD LINE
711-11-211	0.410	NM	THERMOPLASTIC, STD, YELLOW, SOLID, 6"
711-11-251	128	LF	THERMOPLASTIC, STD, YELLOW, DOTTED GUIDELINE (2'-4')
713-102-122 NR	6,491	LF	PREFORMED TAPE, HP, WHITE, SOLID, 8" (PPRT)
713-102-124 NR	983	LF	PREFORMED TAPE, HP, WHITE, SOLID, 12" (PPRT)
713-102-125 NR	1,606	LF	PREFORMED TAPE, HP, WHITE, SOLID, 18" (PPRT)
713-102-134 NR	0.338	GM	PREFORMED TAPE, HP, WHITE, SKIP, 12", (3'-12") (PPRT)
713-102-211 NR	5,926	NM	PREFORMED TAPE, HP, YELLOW, SOLID, 6" (PPRT)
713-102-222 NR	1,921	LF	PREFORMED TAPE, HP, YELLOW, SOLID, 8" (PPRT)
713-102-225 NR	841	LF	PREFORMED TAPE, HP, YELLOW, SOLID, 18" (PPRT)
713-102-513 NR	6,269	NM	PREFORMED TAPE, HP, W/B CONTRAST, SOLID, 9" (PPRT)
713-102-533 NR	5,839	GM	PREFORMED TAPE, HP, W/B CONTRAST, SKIP, 9", (10'-30") (PPRT)
713-102-534 NR	0.651	GM	PREFORMED TAPE, HP, W/B CONTRAST, SKIP, 12", (3'-3'-9") (PPRT)
715-1-11	3,750	LF	CONDUCTOR #10 OR SMALLER INSULATED
715-1-12	12,750	LF	CONDUCTOR #8 TO #6 INSULATED
715-1-13	34,478	LF	CONDUCTOR #4 TO #2 INSULATED
715-1-113	5,271	LF	CONDUCTOR #8 TO #6 INSULATED
715-2-115	1,757	LF	CONDUIT (F&I) (UNDERGROUND) (2" SCH 40 PVC)
715-4-122 NR	15	EA	LIGHT POLE COMPLETE (1 ARM SHLDR MNT) (ALUM. -45')
715-4-129 NR	14	EA	LIGHT POLE COMPLETE (1 ARM SHLDR MNT) (ALUM. -35')
715-4-400	2	EA	LIGHT POLE, COMPLETE, RELOCATE
715-4-600	1	EA	LIGHT POLE, COMPLETE, REMOVE
715-7-11	5	EA	LOAD CENTER (F&I) (SECONDARY VOLTAGE)
715-11-126 NR	22	EA	LUMINAIRE, F&I, UNDERDECK, PENDANT HUNG
715-50	1	LS	LIGHTING, INSIDE BOX GIRDER
715-500-1 NR	29	EA	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)
715-500-3 NR	20	EA	POLE CABLE DISTRIBUTION SYSTEM (WALL MOUNT)
715-513-145 NR	9	EA	LIGHT POLE COMPLETE (1 ARM WALL MNT) (ALUM. -45')
715-515-145 NR	11	EA	LIGHT POLE COMPLETE (1 ARM BRDG MNT) (ALUM. -45')
735-73	1	LS	ARCHITECTURAL WORK
904-540-2	2,250	LF	HIGH TENSION CABLE BARRIER SYSTEM
904-540-4	4	EA	CABLE BARRIER END TERMINAL
1050-11-515	130	LF	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 20.0 - 49.9"
4210-11	17	EA	4'x4'x4' CONCRETE MANHOLE (F&I)
4210-12	16	EA	4'x6.5'x6.5' CONCRETE MANHOLE (F&I)
4210-13	1	EA	4'x6.5'x6.5' CONCRETE MANHOLE (DOGHOUSE) (F&I)
F1050-11-223	1,030	LF	UTILITY PIPE, F&I, PVC, WATER/SEWER, 5.0-7.9"
F1050-11-224	841	LF	UTILITY PIPE, F&I, PVC, WATER/SEWER, 8.0-19.9"
F1050-11-514	175	LF	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 8.0 - 19.9"
F1050-11-515	175	LF	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 20.0 - 49.9"
F1050-16-224	667	LF	UTILITY PIPE, REMOVE & DISPOSE, PVC, WATER/SEWER, 8-19.9"
F1080-11-206	3	EA	UTILITY FIXTURES, F&I, 2-4.9" BAC/AIR ASSEMBLY
R1050-11-223	1,121	LF	UTILITY PIPE, F&I, PVC, WATER/SEWER, 5.0-7.9"
R1050-11-424	810	LF	UTILITY PIPE, F&I, DI/CI, WATER/SEWER, 8-19.9"
R1050-11-514	175	LF	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 8.0 - 19.9"
R1050-11-515	175	LF	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 20.0 - 49.9"
R1050-16-424	655	LF	UTILITY PIPE, REMOVE & DISPOSE, DI/CI, WATER/SEWER, 8-19.9"
R1080-11-206	4	EA	UTILITY FIXTURES, F&I, 2-4.9" BAC/AIR ASSEMBLY
R1080-11-404	1	EA	UTILITY FIXTURES, F&I, 8.0-19.9" VALVE ASSEMBLY
W1050-11-424	1,485	LF	UTILITY PIPE, F&I, DI/CI, WATER/SEWER, 8-19.9"
W1050-11-515	350	LF	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 20.0 - 49.9"
W1050-16-424	1,342	LF	UTILITY PIPE, REMOVE & DISPOSE, DI/CI, WATER/SEWER, 8-19.9"
W1080-11-205	2	EA	UTILITY FIXTURES, F&I, 2-4.9" BACKFLOW ASSEMBLY
W1080-11-206	4	EA	UTILITY FIXTURES, F&I, 2-4.9" BAC/AIR ASSEMBLY
W1080-11-403	2	EA	UTILITY FIXTURES, F&I, 8.0-19.9" TAPPING SADDLE/SLEEVE
W1080-11-404	4	EA	UTILITY FIXTURES, F&I, 8.0-19.9" VALVE ASSEMBLY
W1080-11-407	2	EA	UTILITY FIXTURES, F&I, 8.0-19.9" LINE STOP ASSEMBLY
W1644-800	2	EA	FIRE HYDRANT, RELOCATE
735-7	1	LS	TOLL PLAZA

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