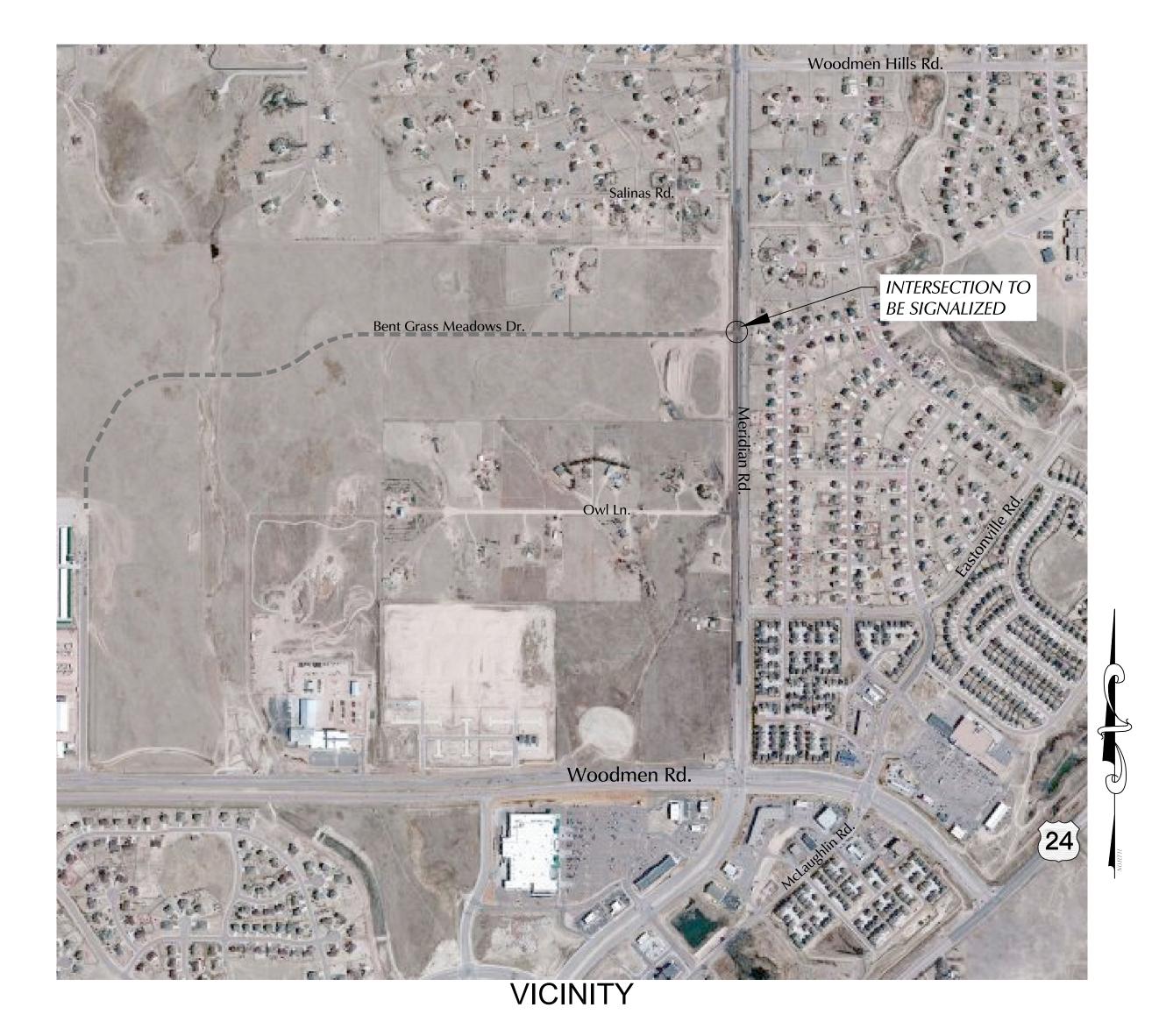
Construction Drawings for Meridian Rd./Bent Grass Meadows Dr. Intersection Improvements Bent Grass Metro District, County of El Paso, State of Colorado



INDEX OF SHEETS

- **1 TITLE SHEET**

2 GENERAL NOTES 3 GENERAL NOTES (CONT.) 4 TRAFFIC SIGNAL PLAN 5 MERIDIAN RD. ADVANCE STREET NAME SIGN PLAN

List of agencies (stakeholder) with addresses & points of contact	Design Engineer's Signature & Stamp:	or use of these plans o part thereof without the permission of LSC Transportation Consult INC. is prohibited and w prosecuted to the fulles	e written ants, will be	
Applicant: Bent Grass Metropolitan District c/o Randy Case II 102 E. Pikes Peak, Colorado Springs, Co. 80903	These detailed plans and specifications were prepared under my direction and supervision. Said plans and specifications have been prepared according to the criteria established by the County for detailed roadway, drainage, grading and erosion control plans and specifications, and said plans and	of the law.		
Civil Engineer: Classic Consulting, 619 N. Cascade Ave. Suite 200 Colorado Springs, CO 80903	specifications are in conformity with applicable master drainage plans and master transportation plans. Said plans and specifications meet the purposes for which the particular roadway and drainage facilities are designed and are correct to the best of my knowledge and belief. I accept responsibility for any			
Traffic Engineer: LSC Transportation Consultants, Inc., 2504 E. Pikes Peak Ave., Suite 304 Colorado Springs, CO 80909, Jeff Hodsdon, 719-633-2898	liability caused by any negligent acts, errors or omissions on my part in preparation of these detailed plans and specifications.			
Local Improvement District: Bent Grass Metropolitan District: c/o Randy Case II. 102 E Pikes Peak Ave, Colorado Springs, CO 80903; Phone:(719) 633-2700.		N, PE		
El Paso County Engineering: EPC Public Services, 3275 Akers Drive, Colorado Springs, CO 80922, [Jennifer Irvine, P.E., County Engineer]	COLORADO LICE	Manage HoDSDON,		
Fire District or Department: Falcon Fire Protection District, Chief Trent Harwig, 7030 N. Meridian Road, Falcon, CO 80831 719-495-4050	H 31 C	A D D D D		
Utility Company (Electric): Mountain View Electric, Jim Kennel, 11140 E. Woodmen Road Falcon, CO 80831, 719-495-2283	PR 5-7-	i i i i i i i i i i i i i i i i i i i		
Utility Company (Telephone): Falcon Broadband, Randy BeYoung, 555 Hathaway Drive Colorado Springs, CO 80915, 719-886-7901	ONAL ENGLISH	Project I JEFFREY C. H		
Utility Company (Gas): CSU, Todd Sturtevant, John Pinkerton Location, 7710 Durant Dr Colorado Springs, CO 80920, 719-668-3556				
Utility Company (Water): Cherokee Metro District, Art Sintas, 6250 Palmer Park Blvd. Colorado Springs CO 80915, 719-597-5080	Jeffrey C. Hodsdon, P.E. #31684 Date			
Utility Company (Cable): Cherokee Metro District, Art Sintas, 6250 Palmer Park Blvd. Colorado Springs CO 80915, 719-597-5080	Owner/Developer's Statement:		1	
	I, the owner/developer have read and will comply with all of the requirements specified in these detailed plans and specifications.	REVISIONS		
		Revisions #3	5/4/20	
		Span Wire Signal	5/1/18	
	Title: Randy Case II Date	Revisions #2	9/29/17	
Should this be Challenger	Business Name: Bent Grass Metropolitan District Address: 102 E. Pikes Peak, Colorado Springs, CO. 80903			
Communities, LLC or is the		DATE: 3/17/16		
district providing financial	El Paso County: County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/or accuracy of this document. Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual, Volumes 1 and 2, and Engineering Criteria Manual as ammended.	SCALE: 1" = 600'		
assurances and agreements to ensure completion?		DRAWN BY: MR		
		JOB NO.: 154560		
		DWG: 194900_Signal Plan Shee		
	In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Directors discretion.	SHT NO. : 1		
	Jennifer Irvine, P.E. Date County Engineer / ECM Administrator	OF 5		

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Bent

East Pikes Peak Avenue Suite 210 Colorado Springs, 0

TRANSPORTATION

2504 E. Pikes Peak Ave. Suite 304 Colorado Springs, Co. 80909 TELEPHONE: 719.633.2868 FAX: 719.633.5430

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CONSULTANTS

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Т	<u>ROJECT DESCRIPTION</u> RAFFIC SIGNAL INSTALLATION, SIGNING AND MARKING AT BENT GRASS MEADOWS DRIVE AND IERIDIAN ROAD.
G	ENERAL NOTES
1	THE OWNER / DEVELOPER / DISTRICT SHALL CONTRACT WITH A QUALIFIED PROFESSIONAL ENGINEERING CONSULTANT FOR THE DESIGN, DEVELOPMENT, AND PROGRAMMING OF ALL TRAFFIC SIGNAL TIMING AND CONTROLLER OPERATIONAL PARAMETERS, SETTINGS, ADJUSTMENTS, AND EQUIPMENT THAT WILL ACHIEVE SATISFACTORY TRAFFIC SIGNAL OPERATION, INCLUDING ISOLATED, INDEPENDENT, FULLY-ACTUATED SIGNAL OPERATION AND SIGNAL SYSTEM COORDINATION TIMING PLANS OPERATION WITH EXISTING ADJACENT SIGNALIZED INTERSECTIONS, WHERE DOCUMENTED TO BE NECESSARY DURING VARIOUS TIME OF THE DAY.
2	TRAFFIC SIGNAL MATERIALS AND INSTALLATION SHALL COMPLY WITH THE SPECIFICATIONS FOR THIS PROJECT, THE PROJECT SPECIAL PROVISIONS, "STATE OF COLORADO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", "COLORADO STANDARD PLANS", "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "THE NATIONAL ELECTRIC CODE", AND AL LOCAL ORDINANCES AND REGULATIONS.
3	THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD PLAN S-614-41 (7/31/19 "TEMPORARY SPAN WIRE SIGNALS" ARE TO BE USED TO CONSTRUCT THIS PROJECT. EXCEPT THAT ALL POLES , MAST ARMS, AND EQUIPMENT SHALL BE PAINTED BLACK.
4	ALL SUBMITTALS SHALL BE MADE TO EL PASO COUNTY FOR APPROVAL. OBTAIN AII REQUIRED PERMITS FOR THE WORK. PREPARE AND SUBMIT TRAFFIC CONTROL PLAN FOR THE WORK. CONTACT EI PASO COUNTY 96 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION.
5	LOCATIONS OF ALL CONDUIT RUNS, DETECTORS, POLES, CONTROLLER CABINETS, PULL BOXES AND FOUNDATIONS SHALL BE FIELD APPROVED BY EL PASO COUNTY. THE CONTRACTOR SHAL VERIFY POLE FOUNDATION AND ANCHOR BOLT ELEVATIONS WITH RESPECT TO TOP OF EXISTING OR FUTURE CURB AND SLOPE OF SIDEWALK PRIOR TO INSTALLATION OF ANY EQUIPMENT.
6	ALL PAVING, SIDEWALK, LANDSCAPING AND LAWN IRRIGATION SYSTEMS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED IN KIND, EQUAL TO OR EXCEEDING ORIGINAL CONDITIONS OR AS DIRECTED BY THE OWNER.
7	PAVEMENT MARKINGS ARE SHOWN FOR INFORMATION ONLY. REFER TO STRIPING PLANS FOR DETAILS.
8	CONTRACTOR TO VERIFY POWER SOURCE AND COORDINATE HOOK - UP WITH ELECTRIC UTILITY PROVIDER.
9	CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
Ţ	RAFFIC SIGNAL NOTES
1	THE CONTRACTOR SHALL PROVIDE, FOR REVIEW, BY THE ENGINEER, A COMPLETE TRAFFIC SIGNAL MATERIAL SUBMITTAL PACKAGE THAT CONTAINS . All OF THE PROPOSED TRAFFIC SIGNAL EQUIPMENT, INCLUDING MATERIAL SPECIFICATIONS AND DESCRIPTIONS THAT WILL BE NECESSARY TO COMPLETE THE TRAFFIC SIGNAL WORK. THE CONTRACTOR SHALL ALLOW FOR A MINIMUM THREE WEEK SUBMITTAL REVIEW PERIOD AND SHALL NOT ORDER ANY SIGNAL EQUIPMENT UNTIL AFTER A REVIEW OF ALL SUBMITTALS HAVE BEEN COMPLETED BY THE ENGINEER AND VERIFIED BY THE CONTRACTOR.
2	FUNCTIONAL AND OPERATIONAL RESPONSIBILITY FOR ALL NEWLY INSTALLED AND EXISTING TRAFFIC SIGNAL EQUIPMENT WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL CONSIDER THIS WORK INCIDENTAL TO THE OVERALL WORK BEING PERFORMED AND SHALL BE INCLUDED AS PART OF THE PROJECT.
3	SEE COLORADO DEPARTMENT OF TRANSPORTATION SIGNAL DETAILS FOR CONSTRUCTION/ INSTALLATION DETAILS NOT SHOWN ON THESE PLANS.
4	ALL SIGNAL EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BE SALVAGED AND BECOME THE PROPERTY OF EL PASO COUNTY. THE SALVAGED EQUIPMENT SHALL BE DELIVERED AS DIRECTED BY THE ENGINEER. DELIVERY OF SIGNAL EQUIPMENT WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE WORK FOR REMOVAL OF TRAFFIC SIGNAL EQUIPMENT.
5	OVERHEAD STREET NAME SIGN DESIGN AND LAYOUT INFORMATION SHALL BE PER THE STREE NAME SIGN DETAIL CONTAINED IN THE PROJECT PLANS.
6	TRAFFIC SIGNS MOUNTED ON SIGNAL POLES , MAST ARMS, AND PEDESTALS SHALL BE MOUNTE USING BANDING, ALUMINUM CHANNELS, AND BACKING ZEES PER APPLICABLE CDOT STANDARI PLANS, OR SIMILAR RIGID SIGN BRACING MOUNTING ASSEMBLY.
7	ONCE THE PROFESSIONAL ENGINEERING CONSULTANT HAS COMPLETED ALL TRAFFIC SIGNAL CONTROLLER TIMING DEVELOPMENT AND CONTROLLER PROGRAMMING, THE CONTRACTOR WILL COORDINATE THE DELIVERY DATE OF THE PROGRAMMED TRAFFIC SIGNAL CONTROLLER FOR REVIEW BY THE EPC DEPARTMENT OF PUBLIC WORKS, HIGHWAY DIVISION SIGNAL SHOP



TRAFFIC SIGNAL NOTES (CONTINUED)

- 8 CONTROLLER CABINET SHALL BE FURNISHED WITH A "BEST" DOOR LOCK KIT LOCK AND CORE IS "BEST": 5L6R LEFT AND RIGHT.
- 9 CONDUIT IS TO BE REPLACED IN THE EVENT THAT EXISTING CONDUIT IS DAMAGED AND AS DIRECTED BY THE ENGINEER.
- 10 ELECTRICAL SERVICE DISCONNECT BOXES SHALL BE LOCKABLE AND WEATHER PROOF WITH THE NEMA TYPE CIRCUIT BREAKER. ENCLOSURES SHALL BE PROVIDED AT THE CONNECTION POINT OF EACH POWER SOURCE OR POINT OF SERVICE AS DIRECTED BY THE ENGINEER.
- 11 THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING REQUIRED TO COMPLETE THE INSTALLATION AND ESTABLISH THE FUNCTIONALITY OF ALL TRAFFIC SIGNAL EQUIPMENT.
- 12 ALL INCIDENTAL ITEMS NOT SHOWN IN THE SUMMARY OF APPROXIMATE QUANTITIES OR TABULATION OF SIGNAL EQUIPMENT SHALL BE CONSIDERED TO BE INCLUDED AS PART OF THE TRAFFIC SIGNAL INSTALLATION AND WILL NOT BE MEASURED AND PAID FOR SEPARATELY. ALL QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY TO COMPLETE THE CONSTRUCTION SHOWN ON THESE PLANS.
- 13 THE SIGNAL SHALL NOT BE TURNED ON OR STARTED UNTIL DIRECTED BY THE ENGINEER. PRIOR TO SIGNAL ACTIVATION, THE ENGINEER SHALL CONFIRM THAT THE APPROPRIATE PAVEMENT MARKINGS AND SIGNING ARE IN PLACE AND THAT ALL WORK NECESSARY FOR PROPER SIGNAL OPERATION HAS BEEN COMPLETED.
- 14 THE SIGNAL CONTROLLER SHALL BE A MODEL 170E-HC11 AND THE CONFLICT MONITOR SHALL BE A MODEL 2018. THE CONTROLLER CABINET SHALL BE A CDOT SPECIFICATION MODEL 332 THAT INCLUDES ONE FULL SIZE FRONT DOOR AND ONE FULL SIZE REAR DOOR AND SHALL CONTAIN ANTI -GRAFFITI SILVER FINISH COATING. THE CABINET SHALL BE MOUNTED ON A CAST-IN-PLACE CONCRETE FOUNDATION PER APPLICABLE CDOT'S STANDARDS STANDARD PLAN AND THE (CABINET SHALL BE POSITIONED SUCH THAT, WITH THE FRONT DOOR OPEN, BOTH THE CONTROLLER DISPLAY AND THE SIGNAL INSTALLATION WILL BE VISIBLE.
- 15. LUMINAIRES SHALL CONSIST OF AN ASSEMBLY THAT UTILIZES LEDS AS THE LIGHT SOURCE. IN ADDITION, A COMPLETE LUMINAIRE SHALL CONSIST OF A HOUSING, LED ARRAY, AND ELECTRONIC DRIVER (POWER SUPPLY). ALL LUMINAIRES SHALL BE WIRED 240 WITH MULTI-TAP HEADS. THE LED FIXTURE MUST HAVE A COLOR TEMPERATURE OF 4100K (+/- 500K), MUST BE DESIGNED TO OPERATE AT A TEMPERATURE RANGE OF -40°F TO 105°F (-40°C TO 40°C), AND PROVIDE A MINIMUM OF 70,000 HOURS OF OPERATION. LUMINAIRES SHALL BE DIALIGHT STREETSENSE LED STREET LIGHT. OR APPROVED EQUAL. THE CONTRACTOR SHALL PROVIDE A RECOMMENDATION FOR THE TYPE OF STREET LIGHT BASED ON THE CONSTRUCTION PLANS AND MANUFACTURER'S SPECIFICATIONS, TO BE APPROVED BY THE ENGINEER. THE FIXTURE MUST BE CAST ALUMINUM. PROVIDED WITH FUSING. SURGE SUPRESSION AND MUST BE UL LISTED FOR WET LOCATIONS. THE FIXTURE MUST HAVE AN INTERNAL, WEATHER-TIGHT LED DRIVE, NO ACTIVE COOLING FEATURES (FANS, ETC.) WILL BE ALLOWED. THE FINISH SHALL MATCH THE EXTENSION ARM SHAFTS. THE LUMINAIRES WILL BE INSTALLED ON 15 FOOT EXTENSION ARM SHAFTS AT A NOMINAL HEIGHT OF 40 FEET AND SHALL BE WELDED TO THE SIGNAL POLE PER CDOT TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS STAND PLAN S-614-40. LUMINAIRE ARM SHAFT PLACEMENT AND ORIENTATION SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS.
- 16 THE INTERSECTION DETECTION SYSTEM (MICROWAVE RADAR) CONTRACT ITEM INCLUDES DEVICE INSTALLATION (I.E., DETECTOR UNIT, HARDWARE, WIRING, PROCESSOR MODULE, ETC.), AND VERIFICATION OF SUCCESSFUL IN-FIELD DETECTION ZONE OPERATION BASED ON SEVERAL VEHICLE ACTUATIONS IN ALL DETECTION ZONES.
- 17 THE CONTRACTOR SHALL COORDINATE THE SCHEDULES OF THE CONTRACTED PROFESSIONAL ENGINEERING CONSULTANT AND THE EPC DEPARTMENT OF PUBLIC WORKS. HIGHWAY DIVISION TRAFFIC SIGNAL STAFF FOR SCHEDULING THE ON-SITE FIELD IMPLEMENTATION OF ALL TRAFFIC SIGNAL TIMING AND OPERATIONAL PROGRAMMING, VEHICLE DETECTION ZONE PLACEMENT, AND DETECTION EQUIPMENT POSITIONING. THIS WORK SHALL BE SCHEDULED NEAR THE END OF THE PROJECT, PRIOR TO PROJECT ACCEPTANCE, AND ONLY AFTER ALL FINAL PAVEMENT MARKINGS, SIGNING, AND TRAFFIC SIGNAL WORK HAS BEEN COMPLETED.
- 18 THE MICROWAVE RADAR DETECTION SYSTEM SHALL UTILIZE MS SEDCO INTERSECTOR TC-CK1-SBE WITH INTERFACE BOARD)
- 19 PEDESTRIAN SIGNAL HEAD INSTALLATION SHALL INCLUDE ALUMINUM AND POWDER COATED GLOSS BLACK SIGNAL HEAD WITH APPROVED LED COUNTDOWN DISPLAY, ALUMINUM OPEN VISOR WITH THE OUTSIDE POWDER COATED GLOSS BLACK, PUSHBUTTON, AND INSTRUCTIONAL R10-3E COUNTDOWN PEDESTRIAN ACTUATION SIGN. PUSHBUTTON SHALL BE VANDAL-RESISTENT PIEZO DRIVEN SOLID STATE TECHNOLOGY SWITCH, BULLDOG MOMENTARY LED TYPE.
- 20 ALL TRAFFIC SIGNAL POLES, MAST ARMS, PEDESTALS, AND LUMINAIRE ARMS SHALL HAVE A GLOSS BLACK COAT FINISH OVER HOT DIP GALVANIZED BASE COAT. INSTALLED IN ACCORDANCE WITH THE PAINT MANUFACTURER' S INSTRUCTIONS
- 21 ALL SIGNAL POLE AND CONTROLLER LOCATIONS SHOWN ARE APPROXIMATE ONLY. MAST ARMS SHALL BE OF SUFFICIENT LENGTH AND DESIGN TO ALLOW PROPER PLACEMENT OF SIGNAL HEADS AND OVERHEAD SIGNING PER THE PLANS. ACTUAL LOCATIONS SHALL BE STAKED IN THE FIELD AND FIELD VERIFIED BY THE ENGINEER PRIOR TO DRILLING, EXCAVATION, AND ORDERING THE SIGNAL EQUIPMENT AND MAST ARMS. THE LOCATION OF EACH SIGNAL POLE FOUNDATION SHALL BE POTHOLED PRIOR TO DRILLING TO CONFIRM WHETHER OR NOT ANY UTILITY CONFLICTS EXIST.

TRAFFIC SIGNAL NOTES (CONTINUED)

- FROM THE EDGE OF PAVEMENT FOR A THROUGH LANE.
- CONSIDERED INCIDENTAL TO THE WORK.
- 18 INCH FOR THE REMAINING PULL BOXES.
- PATHS, OR ROADWAY PAVEMENT AREAS.
- CONDUIT ENDS.

- COST OF THE WORK.

- WORK.



22 LATERAL OFFSETS FROM THE NEAR EDGE OF TRAFFIC SIGNAL POLES, PEDESTALS, AND CABINETS TO THE FACE OF CURB OR THE EDGE OF A PAVED SHOULDER SHOULD BE AT LEAST SIX FEET. HOWEVER, A MINIMUM LATIERAL OFFSET OF AT LEAST FOUR FEET MAY BE PROVIDED FOR CURB OFFSETS. IF NO PAVED SHOULDER EXISTS. A MINIMUM LATERAL OFFSET OF AT LEAST EIGHT FEET SHOULD BE PROVIDED FROM THE EDGE OF PAVEMENT FOR AN AUXILIARY LANE AND A MINIMUM LATERAL OFFSET OF AT LEAST TWELVE FEET SHOULD BE PROVIDED

23 SHOULD THE CONTRACTOR ENCOUNTER WATER IN THE CAISSON, ANY DE-WATERING METHODS AND NECESSARY PERMITS SHALL BE INCLUDED IN THE COST OF THE CAISSON AND WILL BE

24 ALL TRAFFIC SIGNAL COMPONENT PULL BOXES SHALL BE PRE CAST HIGH DENSITY POLYMER CONCRETE (HDPC) MATERIAL WITH THE FOLLOWING SIZES: 30 INCH X 48 INCH X 18 INCH FOR THE PULL BOX ADJACENT TO THE CONTROLLER CABINET FOUNDATION AND 24 INCH X 36 INCH X

25 TRAFFIC PULL BOX LOCATIONS SHOWN IN THE PROJECT PLANS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER. PULL BOXES SHALL BE FLUSH WITH THE FINISHED GROUND SURFACE AND SHALL NOT BE PLACED IN AREAS THAT ARE SUSCEPTIBLE TO WATER RUN OFF OR STANDING WATER. CONDUIT RUNS BETWEEN PULL BOXES SHALL NOT EXCEED APPROXIMATELY 200 FEET AND PULL BOXES SHALL NOT BE LOCATED IN HANDICAP RAMS, PEDESTRIAN LANDING AREAS, SIDEWALKS, PRIMARY SIDEWALK

26 THE CONDUIT NUMBERS AND SIZES FOR TYPICAL CONDUIT RUNS INCLUDE THE FOLLOWING FOR A PERMANENT, MAST ARM SIGNAL INSTALLATION: A.) BETWEEN THE SIGNAL POLE FOUNDATION AND ADJACENT SIGNAL POLE PULL BOX: TWO (2) 2 INCH AND ONE (1) - 3 INCH; B.) BETWEEN SIGNAL POLE PULL BOXES: TWO (2) - 2 INCH AND THREE (3) - 3 INCH; C.) BETWEEN THE CONTROLLER CABINET FOUNDATION AND ADJACENT PULL BOX: THREE (3) - 2 INCH AND FOUR (4) 3 INCH; D.) BETWEEN THE SECONDARY SERVICE PEDESTAL METER FOUNDATION AND THE CONTROLLER FOUNDATION: ONE (1) - 2 INCH FOR THE ELECTRICAL SERVICE FEED.

27 ALL CONDUIT AND FITTINGS SHALL BE SCHEDULE 80 PVC AND ALL CONDUIT SHALL HAVE A PULL ROPE LEFT IN THEM WHEN CONSTRUCTION IS COMPLETED. ALL CONDUIT ENTERING THE CABINET FOUNDATION AND PULL BOXES SHALL HAVE BELL END STYLE COUPLINGS ON ALL

28 ALL CONDUIT THAT IS DIRECTIONALLY BORED SHALL BE A MINIMUM OF THREE FEET BELOW THE EXISTING PAVEMENT. THIS WORK SHALL AVOID DISTURBING OR DAMAGING EXISTING FACILITIES AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROMPT RECONSTRUCTION, ALTERATION, REPAIR, OR MAINTENANCE OF THE HIGHWAY PROPERLY, AS NECESSARY, TO REPAIR ANY DAMAGE CAUSED BY THE ACCOMMODATION OF THE UTILITY, AND TO RESTORE THE HIGHWAY TO PRE-EXISTING OR BETTER CONDITIONS.

29 ALL SIGNAL CABLE SHALL BE CONTINUOUS FROM CONNECTIONS MADE IN THE HAND HOLE COMPARTMENT OF THE SIGNAL POLE BASE TO THE TERMINAL COMPARTMENT IN THE CONTROLLER CABINET AND SHALL CONTAIN NO SPLICES. EACH SIGNAL HEAD SHALL CONTAIN SEPARATE AND CONTINUOUS SIGNAL CABLE THE SIGNAL HEAD TO THE ABOVE GROUND HAND HOLE AT THE BASE OF THE SIGNAL POLE AND SHALL CONTAIN NO SPLICES.

30 A SEPARATE AND CONTINUOUS 21 CONDUCTOR CABLE SHALL RUN FROM THE CONTROLLER CABINET TO THE HAND HOLE AT EACH SIGNAL POLE AND SHALL CONTAIN NO SPLICES.

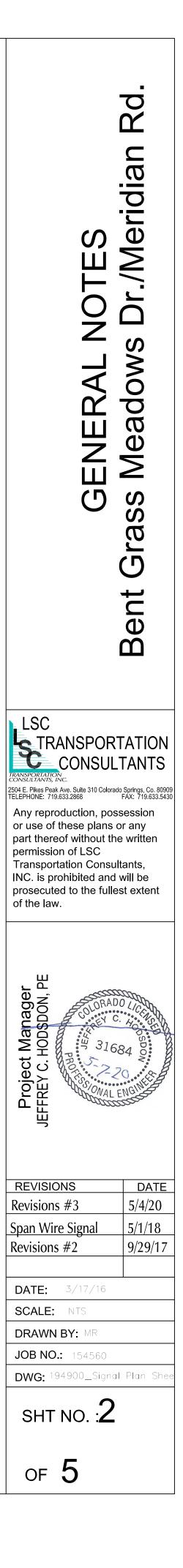
31 ALL SIGNS MOUNTED ON SIGNAL POLES, MAST ARMS, AND PEDESTALS SHALL BE MOUNTED USING BANDING ALUMINUM CHANNELS, AND BACKING ZEES PER CDOT TYPICAL POLE MOUNT SIGN INSTALLATIONS STANDARD PLAN S-614-20, OR SIMILAR RIGID SIGN BRACING MOUNTING ASSEMBLY, AS DIRECTED BY THE ENGINEER. MAST ARM SIGNS THAT REQUIRE Z-BRACKETS SHALL BE MOUNTED ON ASTRO-STYLE BRACKETS AND RISERS. THE COST OF ALL HARDWARE, FITTING, TOOLS, AND EQUIPMENT NECESSARY FOR A COMPLETE INSTALLATION OF MAST ARM SIGNS WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE

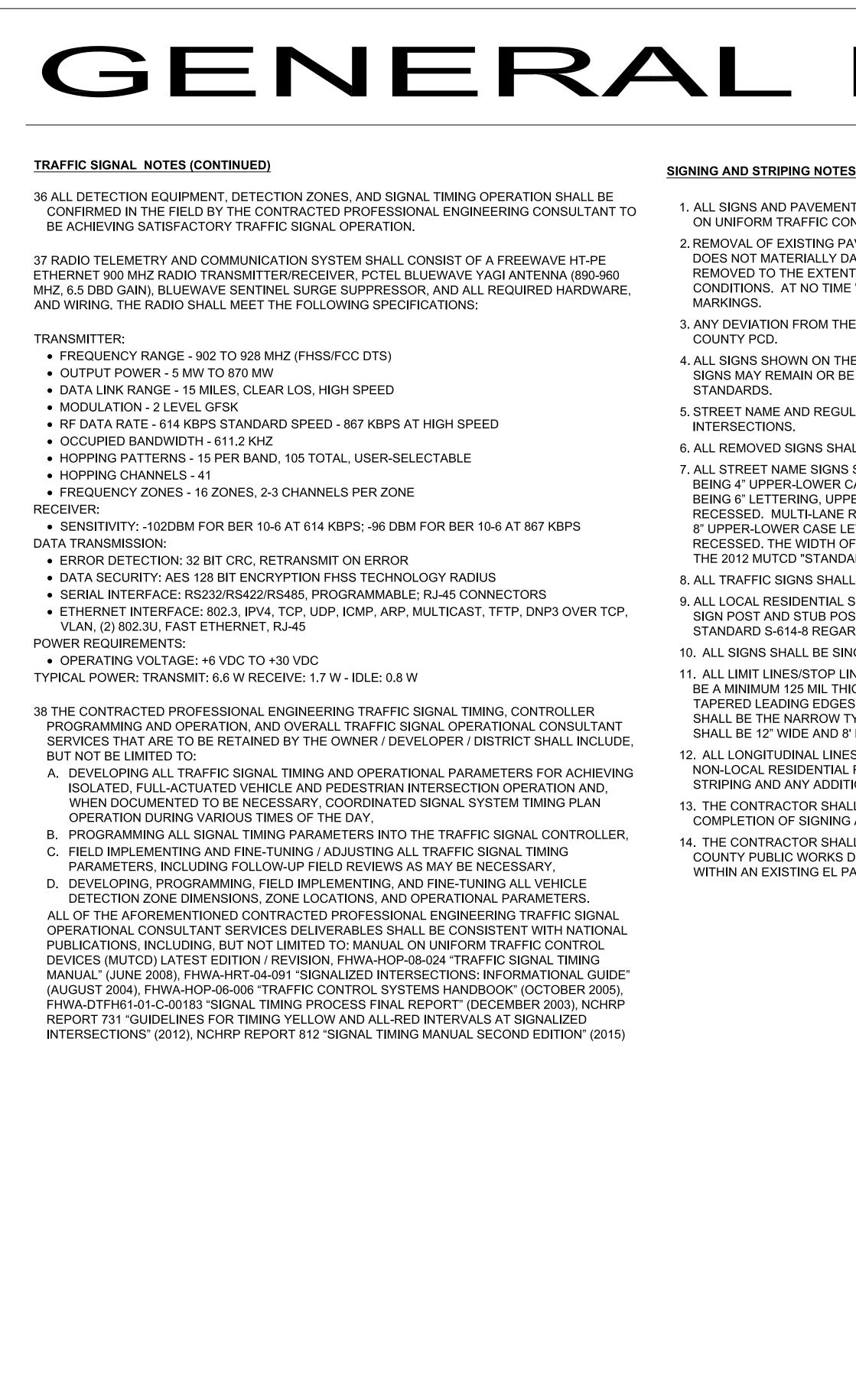
32 ALL CONDUCTORS AND CABINET WIRING SHALL BE COLOR CODED AND PERMANENTLY TAGGED PER ENGINEER DIRECTION AND IN ACCORDANCE WITH THE SIGNAL PHASE NUMBERING AND VIDEO DETECTION ZONE PHASE NUMBERING INFORMATION CONTAINED IN THE PROJECT PLANS.

33 ALL VEHICLE SIGNAL HEADS SHALL HAVE APPROVED 12 INCH LED INDICATIONS AND SHALL BE ALUMINUM WITH POWDER COATED GLOSS BLACK FINISH AND SHALL CONTAIN 12 INCH ALUMINUM TUNNEL VISORS WITH THE OUTSIDE POWDER COATED GLASS BLACK. ALL VEHICLE SIGNAL HEADS SHALL HAVE ALUMINUM LOUVERED BACK PLATES WITH POWDER COATED GLOSS BLACK FINISH. MAST ARM SIGNAL HEADS SHALL USE ASTRO-TYPE MOUNTING ASSEMBLIES AND SHALL BE INSTALLED APPROXIMATELY LEVEL WITH ONE ANOTHER AT A 17 TO 19 FOOT VERTICAL CLEARANCE ABOVE THE HIGH POINT OF THE PAVEMENT GRADE.

34 FINAL VEHICLE DETECTION ZONE PLACEMENT AND DIMENSIONS. IN ACCORDANCE WITH THE PROJECT PLANS, AND FINAL SIGNAL PROGRAMMING SHALL BE COMPLETED IN THE FIELD AND THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR COORDINATING AND SCHEDULING THIS

35 ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS THAT HAVE NOT BEEN PLACED IN SERVICE SHALL BE COVERED WITH A PREFABRICATED WEATHER RESISTANT NYLON FORM FITTING SIGNAL FACE COVER MATERIAL. THE SIGNAL FACE SHALL REMAIN COMPLETELY COVERED UNTIL THE SIGNAL HEAD IS PLACED IN SERVICE AND IS FULLY FUNCTIONAL AND OPERATIONAL.





GENERAL NOTES (CONT.)

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT

3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO

4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCO

5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT

6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR. 7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS. WITH LOCAL ROADWAY SIGNS

BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"

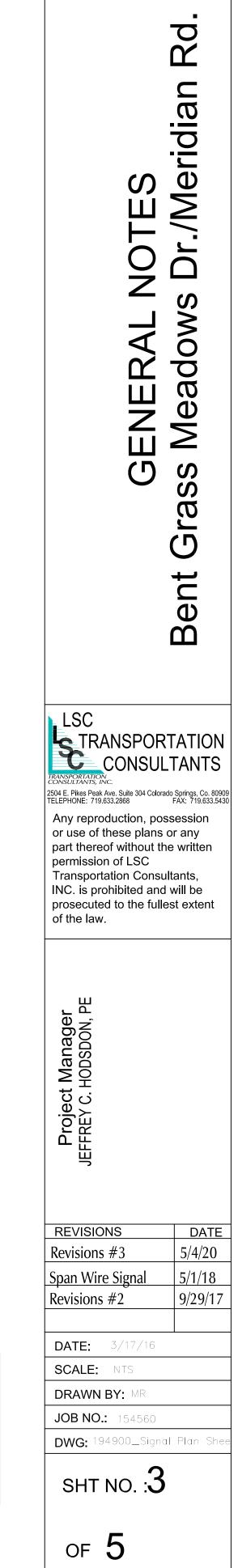
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING. 9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.

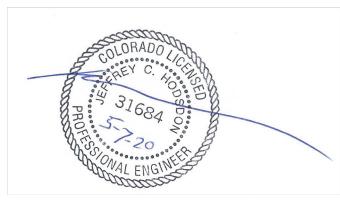
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS. 11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.

12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.

13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PCD (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.

14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY PUBLIC WORKS DEPARTMENT (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.





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TRAFFIC S SIGNAL P PEDESTAL ELECTRIC PEDESTRI POWER M PULL BOX LUMINAIRE CONTROLL 16" LED SIGN SIG VIDEO 144	al conduit run an push button & info sign eter	Image: Contract of the contract of	estrian out	12" 12" 12" 12"	
	radar	MATERIALS LIST			
					-
ITEM #		ITEM	UNIT	QUANTITY	
614-81140	TRAFFIC SIGNAL POLE STEEL (SPAN WIRI	E) Black Anodized (not Galvanized)	EACH	4	_
614-81140	SPAN WIRE CABLE	E) Black Anodized (not Galvanized)	LF	525	-
614-81140		E) Black Anodized (not Galvanized)		•	-
614-81140	SPAN WIRE CABLE		LF	525	 Ex
	SPAN WIRE CABLE TETHER CABLE TRAFFIC SIGNAL FACE (LED) (12/12/12) - B TRAFFIC SIGNAL FACE (LED) (12/12/12/12)	lack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain)	LF LF	525 500	1
614-70336 613-00200	SPAN WIRE CABLE TETHER CABLE TRAFFIC SIGNAL FACE (LED) (12/12/12) - B TRAFFIC SIGNAL FACE (LED) (12/12/12/12) ELECTRICAL CONDUIT, (2") PVC SCHEDUL	ilack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit)	LF LF EACH EACH LF	525 500 10 2 460	sourc
614-70336 613-00200 613-00300	SPAN WIRE CABLE TETHER CABLE TRAFFIC SIGNAL FACE (LED) (12/12/12) - B TRAFFIC SIGNAL FACE (LED) (12/12/12/12) ELECTRICAL CONDUIT, (2") PVC SCHEDUL ELECTRICAL CONDUIT, (3") PVC SCHEDUL	lack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit)	LF LF EACH EACH LF LF	525 500 10 2 460 200	sourc
614-70336 613-00200 613-00300 614-70150	SPAN WIRE CABLE TETHER CABLE TRAFFIC SIGNAL FACE (LED) (12/12/12) - B TRAFFIC SIGNAL FACE (LED) (12/12/12/12) ELECTRICAL CONDUIT, (2") PVC SCHEDUL ELECTRICAL CONDUIT, (3") PVC SCHEDUL PEDESTRIAN SIGNAL FACE (COUNTDOWN	lack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit)	LF LF EACH EACH LF LF EACH	525 500 10 2 460 200 2	_ sourc _of the
614-70336 613-00200 613-00300	SPAN WIRE CABLE TETHER CABLE TRAFFIC SIGNAL FACE (LED) (12/12/12) - B TRAFFIC SIGNAL FACE (LED) (12/12/12/12) ELECTRICAL CONDUIT, (2") PVC SCHEDUL ELECTRICAL CONDUIT, (3") PVC SCHEDUL	Iack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) J) (16")	LF LF EACH EACH LF LF	525 500 10 2 460 200	_ sourc _of the
614-70336 613-00200 613-00300 614-70150	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)	Hack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) J) (16") LLUSTRATION)	LF LF EACH EACH LF LF EACH EACH	525 500 10 2 460 200 2 2 2 2	_ sourc _of the
614-70336 613-00200 613-00300 614-70150 614-72860	SPAN WIRE CABLE TETHER CABLE TRAFFIC SIGNAL FACE (LED) (12/12/12) - B TRAFFIC SIGNAL FACE (LED) (12/12/12/12) ELECTRICAL CONDUIT, (2") PVC SCHEDUL ELECTRICAL CONDUIT, (3") PVC SCHEDUL PEDESTRIAN SIGNAL FACE (COUNTDOWN PEDESTRIAN PUSH BUTTON (PIZO) INFO SIGN (MUTCD #R10-3e)(SEE ABOVE I	Hack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) J) (16") LLUSTRATION)	LF LF EACH EACH LF LF EACH EACH EACH	525 500 10 2 460 200 2 2 2 2 2 2 2	_ sourc _of the
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (2") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PL	Ilack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) J) (16") LLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY)	LF LF EACH EACH LF LF EACH EACH EACH EACH	525 500 10 2 460 200 2 2 2 2 2 2 2 2 0	_ sourc _of the
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (2") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PUPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)	Elack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) .I (16") LLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) .N) (E-Lite-Star)WITH 15' MAST ARM	LF LF EACH EACH LF LF EACH EACH EACH EACH EACH	525 500 10 2 460 200 2 2 2 2 2 2 2 0 0 0	sourc
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07060	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (2") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PUPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PC	Elack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) .I) (16") LLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) .N) (E-Lite-Star)WITH 15' MAST ARM DLES)	LF LF EACH EACH LF LF EACH EACH EACH EACH EACH EACH EACH EACH	525 500 10 2 460 200 2 2 2 2 2 2 2 0 0 0 4 1 1 1	sourc
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07060 614-10130	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (2") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PLPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (24"x36"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUN	Hack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) ILLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) PN) (E-Lite-Star)WITH 15' MAST ARM DLES) ITED	LF LF EACH EACH LF LF EACH EACH EACH EACH EACH EACH EACH EACH	525 500 10 2 460 200 2 2 2 2 2 2 2 0 0 0 4 1 1 1 1 3	sourc
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07034 613-07060 614-10130 614-72855	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PLPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUNTRAFFIC SIGNAL CONTROLLER CABINET	Hack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) .ILUSTRATION) LLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) .N) (E-Lite-Star)WITH 15' MAST ARM 	LF LF EACH EACH LF LF EACH EACH EACH EACH EACH EACH EACH EACH	525 500 10 2 460 200 2 2 2 2 2 2 2 0 0 0 4 1 1 1 3 3 1	sourc
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07060 614-10130	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (2") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PLPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (24"x36"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUN	Hack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) .ILUSTRATION) LLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) .N) (E-Lite-Star)WITH 15' MAST ARM 	LF LF EACH EACH LF LF EACH EACH EACH EACH EACH EACH EACH EACH	525 500 10 2 460 200 2 2 2 2 2 2 2 0 0 0 4 1 1 1 1 3	sourc
614-70336 613-00200 613-00300 614-70150 614-72858 614-72858 614-84000 613-13000 613-07034 613-07034 613-07060 614-10130 614-72855 614-86246	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PULPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO POLSTREET NAME SIGN, SIGNAL-POLE-MOUNTRAFFIC SIGNAL CONTROLLER CABINETCONTROLLER (ATC EX 2070 Flex) (MCCAIN	Alack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) .ILUSTRATION) LLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) .N) (E-Lite-Star)WITH 15' MAST ARM 	LF LF EACH EACH LF EACH	525 500 10 2 460 200 2 2 2 2 2 2 2 0 0 0 4 1 1 1 3 3 1 1 1	sourc
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07060 614-10130 614-72855 614-86246 613-40000	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PLPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (24"x36"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUNTRAFFIC SIGNAL CONTROLLER CABINET (CONTROLLER (ATC EX 2070 Flex) (MCCAIN)CABINET FOUNDATION, CAST-IN-PLACE	Hack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) ILLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) IN) (E-Lite-Star)WITH 15' MAST ARM DLES) ITED (332 D BATTERY BACKUP with Aux Rack) N) CHEDULE (FOR PEDESTAL POSTS)	LF LF EACH EACH LF EACH LF EACH	525 500 10 2 460 200 2 2 2 2 2 2 0 0 0 4 1 1 1 3 3 1 1 1 1 1 1 1 1	sourc
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07034 613-07060 614-10130 614-72855 614-86246 613-40000 503-00018	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PLPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUNTRAFFIC SIGNAL CONTROLLER CABINETCONTROLLER (ATC EX 2070 Flex) (MCCAINCABINET FOUNDATION, CAST-IN-PLACEDRILLED CAISSON (18")- SEE PED POLE SE	Hack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) .E 80 (total linear feet of conduit) .E 80 (total linear feet of conduit) ILLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) IN) (E-Lite-Star)WITH 15' MAST ARM DLES) ITED (332 D BATTERY BACKUP with Aux Rack) N) CHEDULE (FOR PEDESTAL POSTS)	LF LF EACH EACH LF EACH LF EACH	525 500 10 2 460 200 2 2 2 2 2 2 0 0 0 4 1 1 1 3 1 1 3 1 1 1 1 1 0	sourc
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07034 613-07060 614-10130 614-72855 614-86246 613-40000 503-00018 503-00036	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PLPEDESTAL POLE (3 FOOT 6 INCH) (FOR PLPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUNTRAFFIC SIGNAL CONTROLLER CABINET (CONTROLLER (ATC EX 2070 Flex) (MCCAINCABINET FOUNDATION, CAST-IN-PLACEDRILLED CAISSON (18")- SEE PED POLE SEDRILLED CAISSON (36")- SEE SIGNAL POLESECONDARY SERVICE PEDESTALFURNISH AND INSTALL ELECTRICAL SERV	Hack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) E 80 (total linear feet of conduit) E 80 (total linear feet of conduit) ILLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) N) (E-Lite-Star)WITH 15' MAST ARM PLES) ITED (332 D BATTERY BACKUP with Aux Rack) I) CHEDULE (FOR PEDESTAL POSTS) E SCHEDULE	LF LF EACH EACH LF LF LF EACH LF LF EACH LF LF	525 500 10 2 460 200 2 200 2 0 0 4 1 3 1 1 0 64	sourc
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07060 614-10130 614-72855 614-86246 613-40000 503-00018 503-00036 613-50150	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PULPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUNTRAFFIC SIGNAL CONTROLLER CABINET (CONTROLLER (ATC EX 2070 Flex) (MCCAINCABINET FOUNDATION, CAST-IN-PLACEDRILLED CAISSON (18")- SEE PED POLE SIDRILLED CAISSON (36")- SEE SIGNAL POLSECONDARY SERVICE PEDESTALFURNISH AND INSTALL ELECTRICAL SERVWIRING (IMSA Approved Wire)	Plack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) E 80 (total linear feet of conduit) E 80 (total linear feet of conduit) ILLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) N) (E-Lite-Star)WITH 15' MAST ARM DLES) ITED (332 D BATTERY BACKUP with Aux Rack) 4) CHEDULE (FOR PEDESTAL POSTS) E SCHEDULE //CE	LF LF EACH EACH LF LF EACH LF LF LF EACH LS LS	525 500 10 2 460 200 2 2 2 2 2 0 0 4 1 3 1 1 0 64 1	sourc
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07034 613-07060 614-10130 614-72855 614-86246 613-40000 503-00018 503-00036 613-50150 700-90064	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PLPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUNTRAFFIC SIGNAL CONTROLLER CABINET (CONTROLLER (ATC EX 2070 Flex) (MCCAINCABINET FOUNDATION, CAST-IN-PLACEDRILLED CAISSON (18")- SEE PED POLE SCDRILLED CAISSON (36")- SEE SIGNAL POLESECONDARY SERVICE PEDESTALFURNISH AND INSTALL ELECTRICAL SERVWIRING (IMSA Approved Wire)MICROWAVE VEHICLE RADAR DETECTOR	ilack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) E 80 (total linear feet of conduit) E 80 (total linear feet of conduit) ILUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) N) (E-Lite-Star)WITH 15' MAST ARM DLES) ITED (332 D BATTERY BACKUP with Aux Rack) I) CHEDULE (FOR PEDESTAL POSTS) E SCHEDULE //CE . (MS Sedco Intersector)	LF LF EACH EACH LF LF EACH LF LS LS EA	525 500 10 2 460 200 2 200 2 0 0 4 1 3 1 1 0 64 1 1 1 1 1 1 1 1 1 1 1 1 1 5	sourc
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07034 613-07060 614-10130 614-72855 614-86246 613-40000 503-00018 503-00036 613-50150 700-90064	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PUPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUNTRAFFIC SIGNAL CONTROLLER CABINET (CONTROLLER (ATC EX 2070 Flex) (MCCAINCABINET FOUNDATION, CAST-IN-PLACEDRILLED CAISSON (18")- SEE PED POLE SIDRILLED CAISSON (36")- SEE SIGNAL POLSECONDARY SERVICE PEDESTALFURNISH AND INSTALL ELECTRICAL SERVWIRING (IMSA Approved Wire)MICROWAVE VEHICLE RADAR DETECTORCONFLICT MONITOR (2010ECLIP W/ ETHER	Hack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) E 80 (total linear feet of conduit) E 80 (total linear feet of conduit) ILLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) N) (E-Lite-Star)WITH 15' MAST ARM DLES) ITED (332 D BATTERY BACKUP with Aux Rack) 4) CHEDULE (FOR PEDESTAL POSTS) E SCHEDULE //CE . (MS Sedco Intersector) RNET PORT) (EDI)	LF LF EACH EACH LF LF LF EACH LF LF LS LS EA	525 500 10 2 460 200 2 2 2 2 0 0 4 1 3 1 1 0 64 1	_ sourc _of the
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07034 613-07060 614-10130 614-72855 614-86246 613-40000 503-00018 503-00036 613-50150 700-90064	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PLPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUNTRAFFIC SIGNAL CONTROLLER CABINET 0CONTROLLER (ATC EX 2070 Flex) (MCCAINCABINET FOUNDATION, CAST-IN-PLACEDRILLED CAISSON (18")- SEE PED POLE SDRILLED CAISSON (36")- SEE SIGNAL POLISECONDARY SERVICE PEDESTALFURNISH AND INSTALL ELECTRICAL SERVWIRING (IMSA Approved Wire)MICROWAVE VEHICLE RADAR DETECTORCONFLICT MONITOR (2010ECLIP W/ ETHENClary Battery Backup system (SP 1250-LX with	Hack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) E 80 (total linear feet of conduit) E 80 (total linear feet of conduit) ILLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) N) (E-Lite-Star)WITH 15' MAST ARM DLES) ITED (332 D BATTERY BACKUP with Aux Rack) 4) CHEDULE (FOR PEDESTAL POSTS) E SCHEDULE //CE . (MS Sedco Intersector) RNET PORT) (EDI)	LF LF EACH EACH LF LF LF EACH LF LF LF LF LF EACH LS EA EA EA EA EA EA <td>525 500 10 2 460 200 2 200 2 0 0 4 1 3 1 1 0 64 1 1 1 1 1 1 1 1 1 1 1 1 1 5</td> <td>sourc</td>	525 500 10 2 460 200 2 200 2 0 0 4 1 3 1 1 0 64 1 1 1 1 1 1 1 1 1 1 1 1 1 5	sourc
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07034 613-07060 614-10130 614-72855 614-86246 613-40000 503-00018 503-00036 613-50150 700-90064	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PLPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)PULL BOX (36"x48"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUNTRAFFIC SIGNAL CONTROLLER CABINET (CONTROLLER (ATC EX 2070 Flex) (MCCAINCABINET FOUNDATION, CAST-IN-PLACEDRILLED CAISSON (18")- SEE PED POLE SCDRILLED CAISSON (36")- SEE SIGNAL POLESECONDARY SERVICE PEDESTALFURNISH AND INSTALL ELECTRICAL SERVWIRING (IMSA Approved Wire)MICROWAVE VEHICLE RADAR DETECTORCONFLICT MONITOR (2010ECLIP W/ ETHERClary Battery Backup system (SP 1250-LX wittShielded Cat IV Cable for Radar Detectors	Hack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) E 80 (total linear feet of conduit) E 80 (total linear feet of conduit) I E 80 (total linear fe	LFLFEACHEACHLFLFEACHLFLFLSEA	525 500 10 2 460 200 2 2 2 2 0 0 4 1 3 1 1 0 64 1	_ sourc _of the
614-70336 613-00200 613-00300 614-70150 614-72860 614-72858 614-84000 613-13000 613-07034 613-07034 613-07060 614-10130 614-72855 614-86246 613-40000 503-00018 503-00036 613-50150 700-90064	SPAN WIRE CABLETETHER CABLETRAFFIC SIGNAL FACE (LED) (12/12/12) - BTRAFFIC SIGNAL FACE (LED) (12/12/12/12)ELECTRICAL CONDUIT, (2") PVC SCHEDULELECTRICAL CONDUIT, (3") PVC SCHEDULPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN SIGNAL FACE (COUNTDOWNPEDESTRIAN PUSH BUTTON (PIZO)INFO SIGN (MUTCD #R10-3e)(SEE ABOVE IPEDESTAL POLE (3 FOOT 6 INCH) (FOR PLPEDESTAL POST- 12' HIGH (STEEL)LUMINAIRE (ESU-FA012M03250M-150-1512PULL BOX (36"x48"x18") (AT CABINET)PULL BOX (24"x36"x18") (ADJACENT TO PCSTREET NAME SIGN, SIGNAL-POLE-MOUNTRAFFIC SIGNAL CONTROLLER CABINET 0CONTROLLER (ATC EX 2070 Flex) (MCCAINCABINET FOUNDATION, CAST-IN-PLACEDRILLED CAISSON (18")- SEE PED POLE SDRILLED CAISSON (36")- SEE SIGNAL POLISECONDARY SERVICE PEDESTALFURNISH AND INSTALL ELECTRICAL SERVWIRING (IMSA Approved Wire)MICROWAVE VEHICLE RADAR DETECTORCONFLICT MONITOR (2010ECLIP W/ ETHENClary Battery Backup system (SP 1250-LX with	Alack Aluminum Signal Heads (McCain) LEFT TURN HEAD Black Aluminum (McCain) E 80 (total linear feet of conduit) E 80 (total linear feet of conduit) ILLUSTRATION) JSH BUTTONS & INFO SIGNS ONLY) N) (E-Lite-Star)WITH 15' MAST ARM DLES) ITED (332 D BATTERY BACKUP with Aux Rack) I) CHEDULE (FOR PEDESTAL POSTS) E SCHEDULE //CE . (MS Sedco Intersector) RNET PORT) (EDI) h six batteries)	LF LF EACH EACH LF LF LF EACH LF LF LF LF LF EACH LS EA EA EA EA EA EA <td>525 500 10 2 460 200 2 2 2 2 0 0 4 1 3 1 1 0 64 1</td> <td>Ex sourc of the M</td>	525 500 10 2 460 200 2 2 2 2 0 0 4 1 3 1 1 0 64 1	Ex sourc of the M

SIGNAL POLE SCHEDULE

LOCATION	NE	NE CORNER		SE CORNER		SW CORNER		NW CORNER	
NORTHING		TBD		TBD		TBD		TBD	
EASTING		TBD		TBD		TBD		TBD	
CAISSON ELEV.		TBD		TBD		TBD		TBD	
BASE DIA. DEPTH,	/* 36"	16'	36"	16'	36"	16'	36"	16'	

*PAY LENGTH

