

AK DOT&PF Central Region Traffic Design Specification Catalog

Spec	Detail Sheet	Latest Update
660	Signals and Lighting	3/26/2024
740	Signals and Lighting Materials	11/28/2023

AK DOT&PF CR Traffic Design Detail Revision Log
660 - Signals and Lighting

Date	Description of Change	Designer Considerations	Additional Notes	Modifier	Checker
3/14/17	Added Traffic Loop Replament Item	None	None		
9/25/18	MOA Inspection/TC added to 3.01				
1/2/19	Updated Sheets with coding for the title being included for the index				
12/12/19	Implemented Jeff Carleton requested edits.				LAS
2/10/20	MOA Requested Updates				LAS
3/29/20	Updated for AASHTOWARE			LAS	LAS
9/15/20	Updated AASHTOWARE numbers/Title block, fixture driver door comment			LAS	LAS
4/18/22	Updated language throughout for the next generation of SOA maintained traffic controllers: Dual Door, no detector racks, hardwired P.I.M., and more	Include updated cabinet layout detail and include new Equipment Schedule tables for signal sheets.	Consult CR Traffic Design for more details on changes to the traffic controller.	PJS	RDR
4/20/22	660-3.04: Removed "stone drain" language for jbox drainage. Revised language to only reference "porous backfill material. To match new detail.	None	None	ZJH	RDR
4/25/22	660-3.04: Specified gradation B for porous backfill material for Jbox drainage	None.	Prevent the potential for porous backfill material consisting almost exclusively of large rocks that gradation A would allow for.	ZJH	RDR

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Date	Description of Change	Designer Considerations	Additional Notes	Modifier	Checker
7/19/22	Increased unit price for temporary electrolier to \$3,300/ea in 660-5.01	None	None	ZJH	RDR
8/16/22	Changed reference 504-3.01 8. to 504-3.01 7. to match 2020 Blue Book.	None.	None.	RDR	ZJH
12/21/22	-Removed requirement for 8 hard copy material submittals. Electronic copy only now. Section 660-2.01 1. -Revised cable tag section based on M&O feedback. Section 660-3.05 15. -Revised jbox elevation in topsoil and seed language based on M&O feedback	None.	None.	ZJH	RDR
7/25/23	Changed 660-3.02.1.c reference from 204 to 205, 203-3.04, and 660-3.01 to match SSHC and ASP L-30.	None	None	PJS	RDR
8/17/23	Added a section 660-3.13 Controller Cabinet Preparation. section for SOA maintained signals.	None.	Added per the request of SOA M&O.	RDR	PJS
11/28/23	Revised some formatting to match DOT&PF style guide.	None.	None.	RDR	PJS
12/21/23	Deleted interconnect junction box spacing in section 660-3.04 as the same information is in section 662.	None.	None.	RDR	PJS

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Date	Description of Change	Designer Considerations	Additional Notes	Modifier	Checker
3/26/24	Removed UL listed electrofusion coupler from 660-3.03.28.	None.	There are no UL listed electrofusion couplers. Mechanically connected couplers are also easier to connect with fewer tools and easier for inspectors to check.	SAR	RDR

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740 - Signals and Lighting Materials

Date	Description of Change	Designer Considerations	Additional Notes	Modifier	Checker
8/3/17	Added Switch spec	None	None		
10/31/18	Changed PTZ to Axis Q6000e directly	None	None		
11/7/18	Removed Video detection, replaced with radar (more commonly used)	None	None		
1/2/19	updated the sheets so they would have coding for the title being included in the index	None	None		
2/20/19	updated pole design standards, removed radar warranty	None	None		
2/20/19	updated MOA section	None	None		
3/14/19	Changed PTZ spec (SOA&MOA), yes again	None	None		
7/18/19	Changed PTZ Spec (again again) with Kris Woo update	None	None	ZH	CB
1/15/20	Modified Radar section to include Click 656 as an option	None	None	LAS	LAS
2/10/20	MOA requested updates	None	None		LAS
6/23/20	added updated radar and camera information	None	None	LAS	LAS
7/8/20	updated switch information	None	None	LAS	LAS
7/9/20	updated camera MOA info	None	None	LAS	LAS
9/15/20	updated AASHTOWARE numbers/title block, driver door comment	None	None	LAS	LAS
12/3/20	updated PTZ information for new camera system	None	None	LAS	LAS

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Date	Description of Change	Designer Considerations	Additional Notes	Modifier	Checker
4/18/22	1) Added specific fuse for LED fixtures per Jeff Carleton. 2) Updated language throughout for the next generation of SOA maintained traffic controllers: Dual Door, no detector racks, hardwired P.I.M., and more.	1) None 2) Include updated cabinet layout detail and include new Equipment Schedule tables for signal sheets.	1) None 2) Consult CR Traffic Design for more details on changes to the traffic controller.	PJS	RDR
4/19/22	Revised 740-2.02.1 (Design). Broke out the section into categories a-c for different structure types. Revised signal requirements to match ASPs	None	None	ZJH	RDR
5/16/22	Updated spec reference in 740-2.02.3	None	None	PJS	RDR
7/19/22	Added language on vibration mitigator to 740-2.02.1.c	None	None	ZJH	RDR
8/3/22	3.3V 32MB changed to 3.3V 8MB.	None.	Change requested from M&O.	RDR	ZJH
8/5/22	Added "Submit the actual total combined mass of luminaire supports and attached fixtures."	Max allowed combined pole and fixture weight per section 12-6 of the SSSS is 992 lbs.		RDR	ZJH
8/5/22	Added "unless otherwise stated in the Plans" to 660-3.02 d.	Provides an option for full foundation removal as determined to be practicable by designer.		RDR	ZJH
8/5/22	Added "Use foundation type shown in Plans." to 660-3.02.	Designer should determine foundation type based on anticipated soil conditions.		RDR	ZJH

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Date	Description of Change	Designer Considerations	Additional Notes	Modifier	Checker
8/11/22	Updated the "Copper and Fiber Ethernet Switch" section of 740-2.23. Removed the performance spec to correspond with the acquired blanket brand name spec. Listed the typical switch models required to be furnished.	None.	None.	ZJH	RDR
12/21/22	1TB in SOA section 740-2.13 7 and MOA section 740-2.13 8. -Corrected typo in pedestrian head wattage, section 740-2.16 1. d. (7)	None.	None.	ZJH	RDR
1/26/23	Updated structural standards for lighting poles and signal poles in section 740-2.02.	Update required per 1/26/2023 directive from the Preconstruction Standards Engineer.	None.	ZJH	RDR
2/1/23	change <i>4000 K (+/- 300 K) color temperature</i> to <i>3000 K (+/- 200 K)</i> for the wanted color temperature of 3000 K. 740-2.18-2c paragraph 2	None.	None	SAR	RDR
2/6/23	Removed AccuScan and Smartmicro radar detectors from SOA section of specs (740-2.13.6 SOA 7 MOA).	None	Only utilizing Wavetronix Radar for SOA signals at this time. Brand name spec applies.	PJS	RDR
2/7/23	Revised radar section for both SOA and MOA signals to reduce extraneous information related to approved equals. Brand name spec allows Wavetronix products to be specifically requested (740-2.13.6 SOA 7 MOA).	None	None	PJS	RDR

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Date	Description of Change	Designer Considerations	Additional Notes	Modifier	Checker
2/21/23	Removed the gust standard requirement from 740-2.02.1.a	Gust factor provided in SSSS, does not need to be repeated.	None	ZJH	RDR
2/22/23	Updated Ped Push Button to match current Polara Bulldog model, RBDL3-B-4H, in section 740-2.16.	None.	None	ZJH	RDR
2/23/23	Added cable specs for the radar home run cable in 740-2.13.6.g.2	None.	None	ZJH	RDR
3/1/23	Revised name for color standard in 740-2.14 & 2.15 to AMS-STD-595 color number 37038 to be in compliance with HSM20-31.	None.	None.	ZJH	RDR
7/28/23	Changed pile cap adapter steel grade from X42 to X52 in 740-2.02 2 last paragraph.	None.	X52 is what has historically submitted.	ZJH	RDR
11/28/23	Revised radar section to exclude the "installer kit" and revised terminology to better align with terminology on radar regional detail (740-2.13.6 SOA 7 MOA). Added Item No 1. to 2nd sentence of 740-2.13 to MOA section.	None.	Local supplier doesn't know what the installer kit is, we determined we aren't missing items. Loops are starting to be phased out, loop detectors and amplifiers only provided if indicated in Plans.	RDR	PJS
11/28/23	Added section on nodes.	Verify inclusion with local M&O (typically include on projects within the MOA).	None.	PJS	RDR