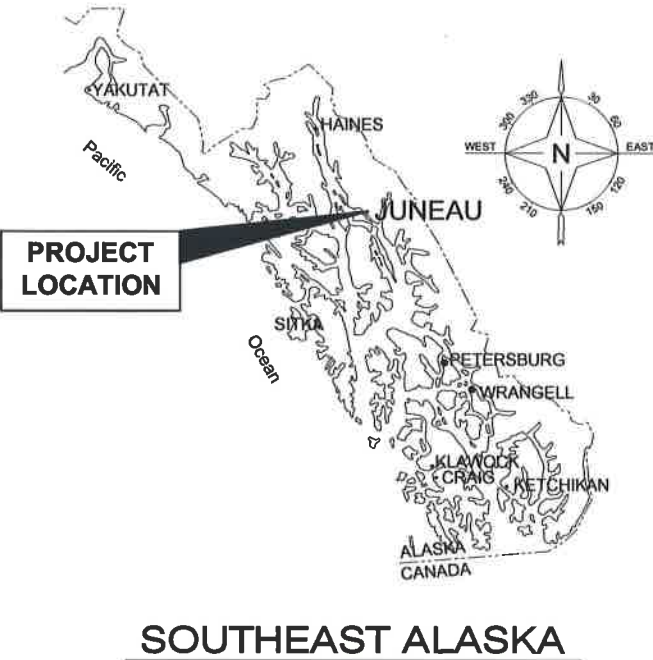


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST REGION

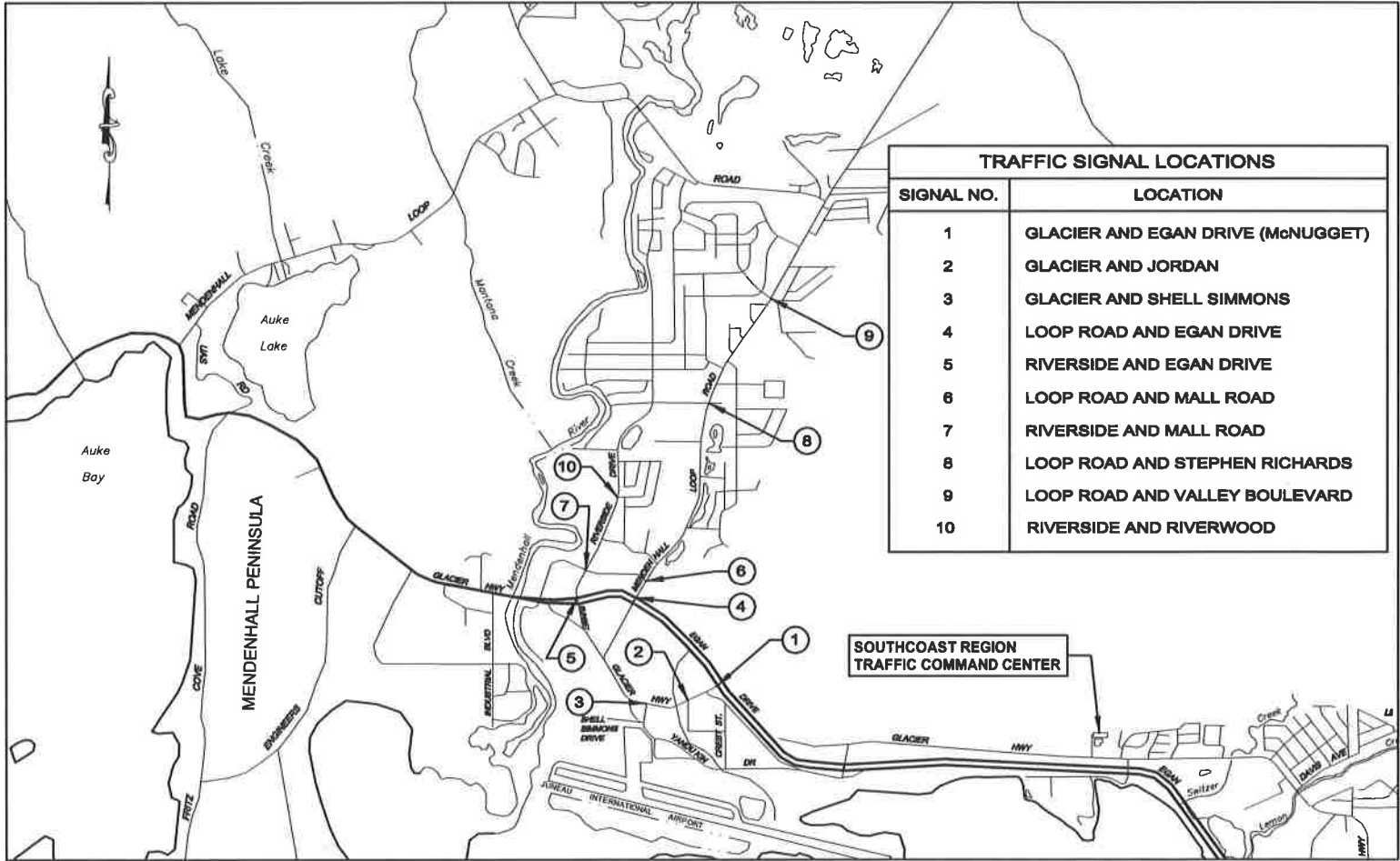
JUNEAU, ALASKA
JNU: MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
PROJECT NO. Z685840000 ~ 0003184



INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND
C1	TRAFFIC SIGNAL ESTIMATE OF QUANTITIES
F1-F2	GLACIER AND EGAN DRIVE (MCNUGGET)
F3-F4	GLACIER AND JORDAN
F5-F6	GLACIER AND SHELL SIMMONS
F7-F8	LOOP ROAD AND EGAN DRIVE
F9-F10	RIVERSIDE AND EGAN DRIVE
F11-F12	LOOP ROAD AND MALL ROAD
F13-F15	RIVERSIDE AND MALL ROAD
F16-F17	LOOP ROAD AND STEPHEN RICHARDS
F18-F19	LOOP ROAD AND VALLEY BOULEVARD
F20-F21	RIVERSIDE AND RIVERWOOD
F22-F25	SOUTHCOAST REGION OFFICE PLAN SHEET
S1	TRAFFIC CONTROL NOTES

As Advertised:
September 16, 2015



TRAFFIC SIGNAL LOCATIONS

SIGNAL NO.	LOCATION
1	GLACIER AND EGAN DRIVE (MCNUGGET)
2	GLACIER AND JORDAN
3	GLACIER AND SHELL SIMMONS
4	LOOP ROAD AND EGAN DRIVE
5	RIVERSIDE AND EGAN DRIVE
6	LOOP ROAD AND MALL ROAD
7	RIVERSIDE AND MALL ROAD
8	LOOP ROAD AND STEPHEN RICHARDS
9	LOOP ROAD AND VALLEY BOULEVARD
10	RIVERSIDE AND RIVERWOOD

VICINITY MAP

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
T-30.11

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

49th
David Bruce Epstein
CE-6886
8-19-15

APPROVED: [Signature] 8/20/15
L. PAT CARROLL, P.E.
PRECONSTRUCTION ENGINEER, SOUTHCOAST REGION
DATE

APPROVED: [Signature] 8/20/15
CHUCK CORREA, P.E.
DIRECTOR OF DESIGN AND CONSTRUCTION, SOUTHCOAST REGION
DATE

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z685840000~0003184	2015	A1	29

	RECOVERED	SET		EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED
BLM MONUMENT			SANITARY SEWER (FLOW DIRECTION →)			ROADWAY/PAVEMENT EDGE			JUNCTION BOX, TYPE IA		
GLO MONUMENT			FUEL LINE			FENCE			JUNCTION BOX, TYPE II		
USC&GS MONUMENT			GAS LINE			CURB AND GUTTER			JUNCTION BOX, TYPE III		
PRIMARY MONUMENT			WATER LINE			DETECTABLE WARNINGS			SIGNAL FACE, VEHICULAR		
CENTERLINE MONUMENT IN CASING			METER, VALVE, FIRE HYDRANT			GUARDRAIL			SIGNAL FACE, BACKPLATE		
PRIMARY R.O.W. MONUMENT			EXISTING STORM DRAIN (FLOW DIRECTION →)			CULVERT PIPE			SIGNAL FACE, LEFT TURN, BACKPLATE		
BEARING OBJECT			PROPOSED STORM DRAIN			SIGN			SIGNAL FACE, PEDESTRIAN		
MISCELLANEOUS MONUMENT						MAILBOX			LOOP DETECTOR		
LINE OF SIGHT MONUMENT			FIBER OPTIC LINE			RAILROAD TRACKS			VIDEO DETECTOR		
CONCRETE R.O.W. MONUMENT			DIRECT BURIAL TELEPHONE CABLE			RAILROAD DEVICES			RADAR DETECTOR		
BENCHMARK			DIRECT BURIAL ELECTRIC CABLE			CROSS-BUCK			OPTICOM DETECTOR		
REBAR AND CAP			ELECTRIC LINE (OVERHEAD)			FLASHING LIGHT			PTZ CAMERA		
REBAR			POWER POLE LINE			CANTILEVER			PEDESTRIAN PUSH BUTTON		
IRON PIPE			JOINT USE POWER & TELEPHONE			SWITCH			SIGNAL POST W/O MAST ARM		
PK NAIL			TELEPHONE POLE LINE						SIGNAL POLE W/MAST ARM		
SPIKE			POLE ANCHOR						SIGNAL CONTROLLER		
HUB AND TACK			STUB POLE (POWER OR TELEPHONE)						LOAD CENTER		
CONSTRUCTION CENTERLINE			TELEPHONE DUCT						LUMINAIRE		
MICELLANEOUS CENTERLINE			TELEPHONE PEDESTAL						RIGID METAL CONDUIT		
STATION EQUATION			BURIED CABLE MARKER								
PROJECT RIGHT-OF-WAY LINE			PIPELINE MARKER OR VALVE								
EXISTING RIGHT-OF-WAY LINE			CATCH BASIN OR DROP INLET								
EXISTING PROPERTY LINE			MANHOLE								
CONTROLLED ACCESS LINE			SANITARY SEWER CLEAN OUT								
EXISTING EASEMENT LINE											
PROPOSED EASEMENT LINE											
PROPOSED CUT SLOPE LIMIT											
PROPOSED FILL SLOPE LIMIT											
SECTION LINE											
1/4 SECTION LINE											
1/16 SECTION LINE											
TOWNSHIP & RANGE LINE											
MEANDER LINE											

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN

DESIGNED BY: J. MAHLE

DRAWN BY: D. STEVENS

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PROJECT DESIGNATION

YEAR

SHEET NO.

TOTAL SHEETS

STEVENS, DAVID A (DOT)

2015

A2

29

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION

JNU-MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

LEGEND

ESTIMATE OF QUANTITIES			
ITEM NUMBER	ITEM DESCRIPTION	PAY UNIT	QUANTITY
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643(15)	FLAGGING	LUMP SUM	ALL REQUIRED
643(23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
660(14)	SIGNAL NO. 1, GLACIER AND EGAN DRIVE (MCNUGGET) TRAFFIC SIGNAL MODIFICATION COMPLETE	LUMP SUM	ALL REQUIRED
660(15)	SIGNAL NO. 2, GLACIER AND JORDAN TRAFFIC SIGNAL MODIFICATION COMPLETE	LUMP SUM	ALL REQUIRED
660(16)	SIGNAL NO. 3, GLACIER AND SHELL SIMMONS TRAFFIC SIGNAL MODIFICATION COMPLETE	LUMP SUM	ALL REQUIRED
660(17)	SIGNAL NO. 4, LOOP ROAD AND EGAN DRIVE TRAFFIC SIGNAL MODIFICATION COMPLETE	LUMP SUM	ALL REQUIRED
660(18)	SIGNAL NO. 5, RIVERSIDE AND EGAN DRIVE TRAFFIC SIGNAL MODIFICATION COMPLETE	LUMP SUM	ALL REQUIRED
660(19)	SIGNAL NO. 6, LOOP ROAD AND MALL ROAD TRAFFIC SIGNAL MODIFICATION COMPLETE	LUMP SUM	ALL REQUIRED
660(20)	SIGNAL NO. 7, RIVERSIDE AND MALL ROAD TRAFFIC SIGNAL MODIFICATION COMPLETE	LUMP SUM	ALL REQUIRED
660(21)	SIGNAL NO. 8, LOOP ROAD AND STEPHEN RICHARDS TRAFFIC SIGNAL MODIFICATION COMPLETE	LUMP SUM	ALL REQUIRED
660(22)	SIGNAL NO. 9, LOOP ROAD AND VALLEY BOULEVARD TRAFFIC SIGNAL MODIFICATION COMPLETE	LUMP SUM	ALL REQUIRED
660(23)	SIGNAL NO. 10, RIVERSIDE AND RIVERWOOD TRAFFIC SIGNAL MODIFICATION COMPLETE	LUMP SUM	ALL REQUIRED
660(24)	SOUTHCOAST REGION TRAFFIC COMMAND CENTER COMPLETE	LUMP SUM	ALL REQUIRED

SIGNAL HEAD BASIS OF ESTIMATE		
ITEM NUMBER	ITEM DESCRIPTION	ESTIMATING FACTORS
660(14)	SIGNAL NO. 1, GLACIER AND EGAN DRIVE (MCNUGGET) TRAFFIC SIGNAL MODIFICATION COMPLETE	5 R-Y-G, 2 RLA-YLA-GLA, 3 MATRIX, 2 ADVANCE, 1 PTZ
660(15)	SIGNAL NO. 2, GLACIER AND JORDAN TRAFFIC SIGNAL MODIFICATION COMPLETE	5 R-Y-G, 4 MATRIX, 1 PTZ
660(16)	SIGNAL NO. 3, GLACIER AND SHELL SIMMONS TRAFFIC SIGNAL MODIFICATION COMPLETE	4 R-Y-G, 4 MATRIX, 1 PTZ
660(17)	SIGNAL NO. 4, LOOP ROAD AND EGAN DRIVE TRAFFIC SIGNAL MODIFICATION COMPLETE	8 R-Y-G, 6 RLA-YLA-GLA, 3 R-Y-G-GLA, 4 MATRIX, 2 ADVANCE, 1 PTZ
660(18)	SIGNAL NO. 5, RIVERSIDE AND EGAN DRIVE TRAFFIC SIGNAL MODIFICATION COMPLETE	3 R-Y-G, 4 RLA-YLA-GLA, 2 RRA YRA-GRA, 1 R-Y-G-YRA-GRA, 1 PTZ
660(19)	SIGNAL NO. 6, LOOP ROAD AND MALL ROAD TRAFFIC SIGNAL MODIFICATION COMPLETE	8 R-Y-G, 4 RLA-YLA-GLA, 4 MATRIX, 1 PTZ
660(20)	SIGNAL NO. 7, RIVERSIDE AND MALL ROAD TRAFFIC SIGNAL MODIFICATION COMPLETE	1 R-Y-G, 1 PTZ
660(21)	SIGNAL NO. 8, LOOP ROAD AND STEPHEN RICHARDS TRAFFIC SIGNAL MODIFICATION COMPLETE	1 PTZ
660(22)	SIGNAL NO. 9, LOOP ROAD AND VALLEY BOULEVARD TRAFFIC SIGNAL MODIFICATION COMPLETE	4 MATRIX, 1 PTZ
660(23)	SIGNAL NO. 10, RIVERSIDE AND RIVERWOOD TRAFFIC SIGNAL MODIFICATION COMPLETE	4 MATRIX, 1 PTZ

ITEM NO. 660(24), SOUTHCOAST REGION TRAFFIC COMMAND CENTER COMPLETE BASIS OF ESTIMATE	
ITEM DESCRIPTION	QUANTITY REQUIRED IN CONTRACT
LOCKABLE DOOR AND ASSOCIATED FRAMING	1
DESKS	2
GUEST CHAIRS	4
TRAFFIC COMMAND CENTER WORK STATION CABINET	1
SERVER	1
TRAFFIC COMMAND CENTER WORK STATION	1
MONITORS, WALL-MOUNTED, 55 INCH LCD	2
TRAFFIC COMMAND CENTER WORK STATION MONITOR	1
TRAFFIC COMMAND CENTER SOFTWARE	1

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

TRAFFIC SIGNAL
ESTIMATE OF QUANTITIES



DESIGNED BY: D. EPSTEIN
DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

TRAFFIC SIGNAL
ESTIMATE OF
QUANTITIES

PROJECT DESIGNATION NUMBER
Z685840000 ~ 0003184

STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
C1	29

1



MAJOR WORK ITEMS AT THIS INTERSECTION

1. REPLACE ALL SIGNAL HEADS.
2. INSTALL PTZ CAMERA TO SIGNAL POLE 1.
3. INSTALL RADAR DETECTORS AS SHOWN.

SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE

Signal No. 1, Glacier and Egan Drive ("McNuggett")

Pole No.	Signal Head No.	Mounting Type	Indication	Wavetronix Matrix Unit Detector Number and mounting location	Wavetronix Advance Unit Number and mounting location	PTZ Camera Number and mounting location
1	11	Side-mounted S-1	RLA-YLA-GRA			
1	12	See Note 3	RLA-YLA-GRA			
1						1, mast arm
2	21	Side-mounted S-1	R-Y-G			
2	22	See Note 3	R-Y-G			
2	23	See Note 3	RLA-YLA-GLA			
2				4, mast arm		
2					1, mast arm	
3	31	Side-mounted S-1	R-Y-G			
3	32	See Note 3	R-Y-G			
3	33	See Note 3	R-Y-G			
3				2, mast arm		
3					5, mast arm	
3				3, signal pole		
4	52	Post-mounted T-1	RLA-YLA-GLA			

NOTES:

1. SIGNAL NUMBER CORRESPONDS WITH SHEET A1.
2. SEE STANDARD DRAWING T-30.11 FOR MOUNTING TYPE.
3. ASTROBRAC STELLAR STAINLESS 3 SECTION 96" CABLE MOUNT AS-Ø125-3-96 FOR 3 SECTION HEAD.
4. ASTROBRAC STELLAR STAINLESS 4 SECTION 96" CABLE MOUNT AS-Ø125-4-96 FOR 4 SECTION HEAD.
5. ASTROBRAC STELLAR STAINLESS 5 SECTION 96" CABLE MOUNT AS-Ø125-5-96 FOR 5 SECTION HEAD.

SIGNAL HEAD CODE LEGEND

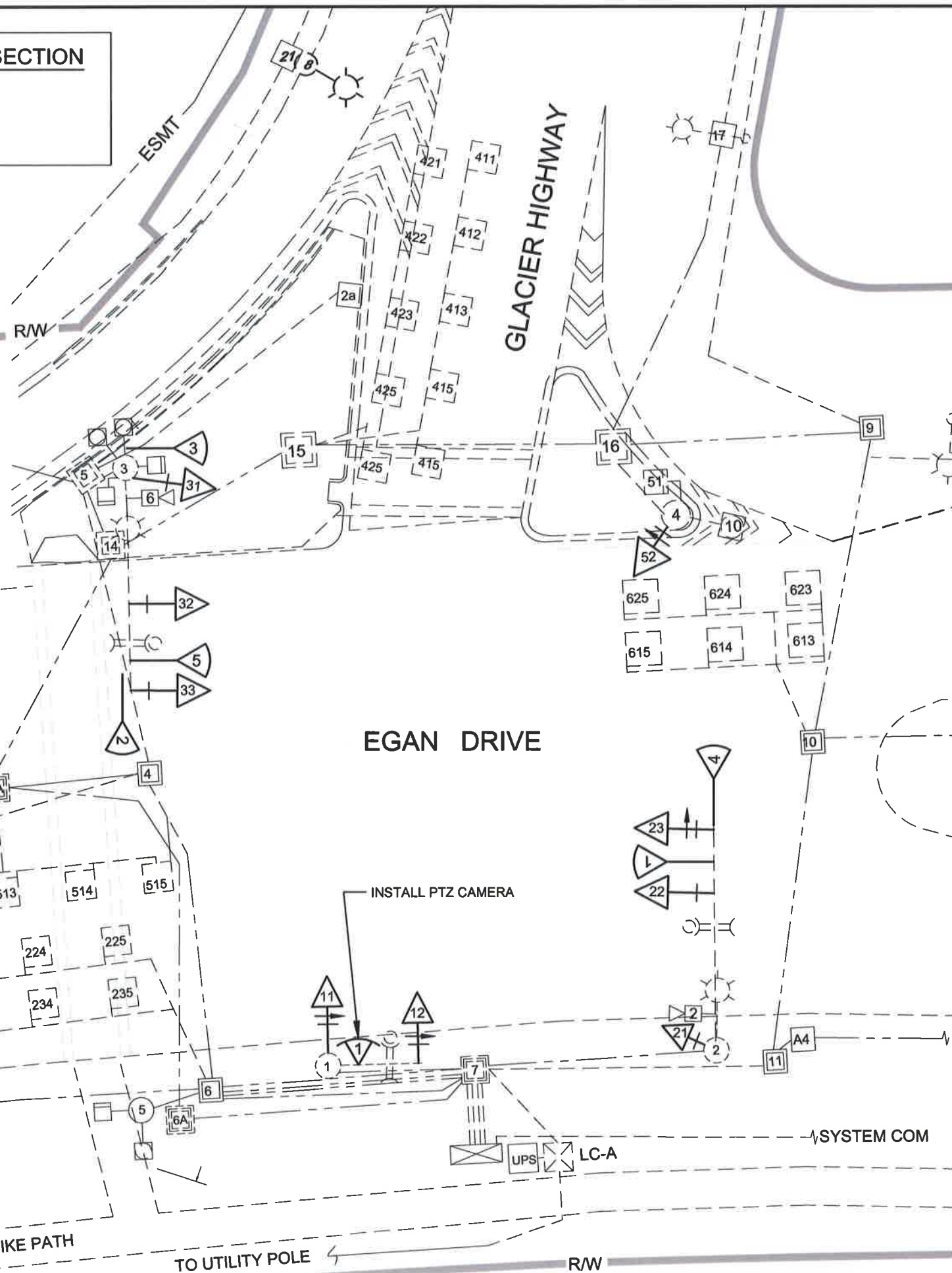
Indication Code	Translation
R	Red ball
Y	Yellow ball
G	Green ball
RLA	Red left arrow
YLA	Yellow left arrow
GLA	Green left arrow
RRA	Red right arrow
YRA	Yellow right arrow
GRA	Green right arrow

TO J-B 1 & 2

BIKE PATH

TO UTILITY POLE

R/W



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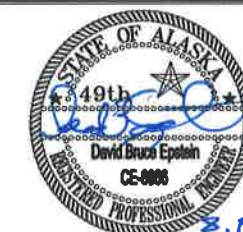
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RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 1
GLACIER AND EGAN DRIVE
(MCNUGGET)



DESIGNED BY: D. EPSTEIN

DRAWN BY: D. STEVENS

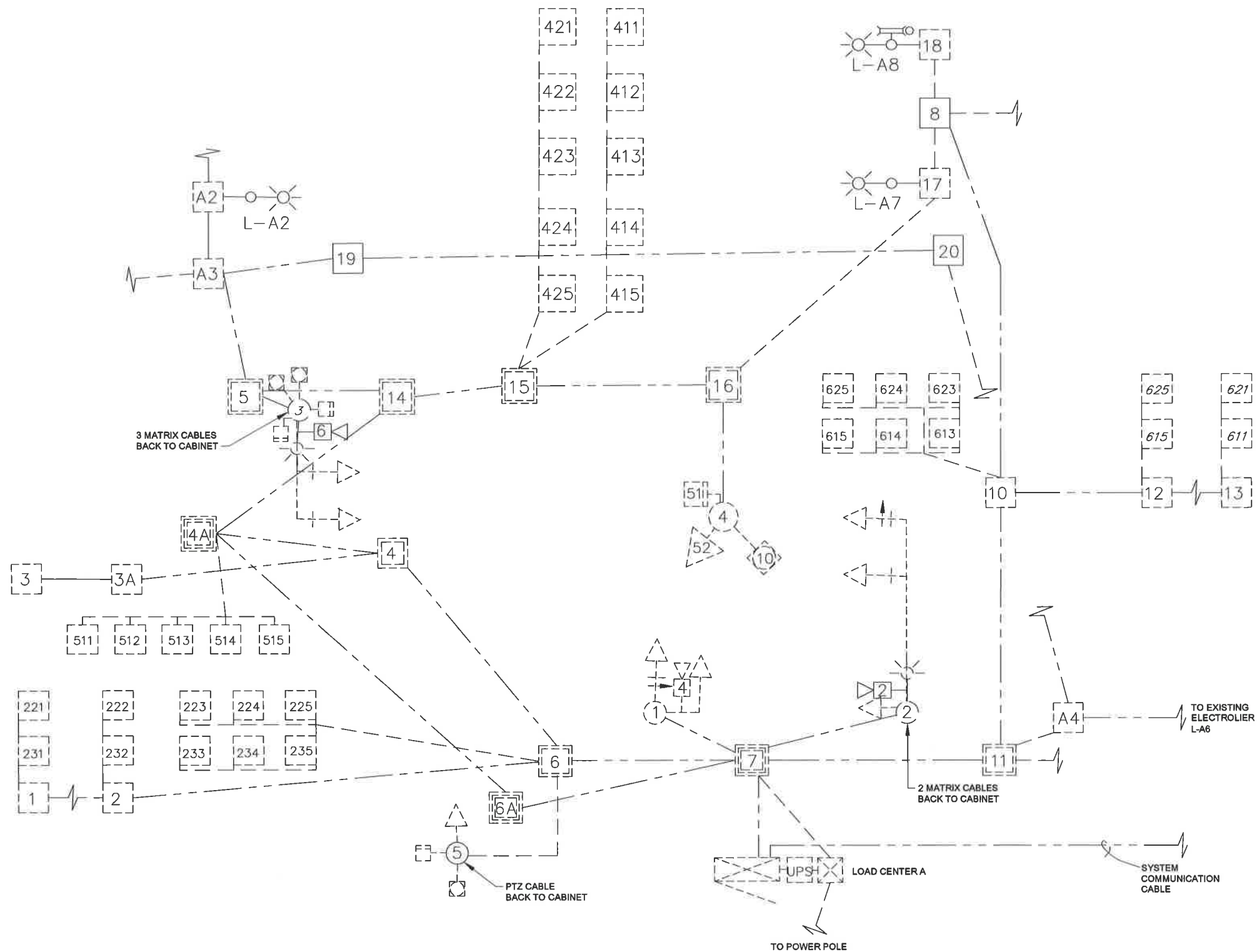
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION

MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

SIGNAL NO. 1
GLACIER AND EGAN DRIVE
(MCNUGGET)

PROJECT DESIGNATION NUMBER
Z685840000 ~ 0003184

STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F1	29



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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 1
GLACIER AND EGAN DRIVE (MCNUGGET)
WIRING DIAGRAM



DESIGNED BY: D. EPSTEIN

DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

SIGNAL NO. 1
GLACIER AND EGAN DRIVE
(MCNUGGET)
WIRING DIAGRAM

PROJECT DESIGNATION NUMBER

Z685840000 ~ 0003184

STATE YEAR

ALASKA 2015

SHEET NUMBER TOTAL SHEETS

F2 29

- NOTES:
- 1. SIGNAL NUMBER CORRESPONDS WITH SHEET A1.
 - 2. SEE STANDARD DRAWING T-30.11 FOR MOUNTING TYPE.
 - 3. ASTROBRAC STELLAR STAINLESS 3 SECTION 96" CABLE MOUNT AS-Ø125-3-96 FOR 3 SECTION HEAD.
 - 4. ASTROBRAC STELLAR STAINLESS 4 SECTION 96" CABLE MOUNT AS-Ø125-4-96 FOR 4 SECTION HEAD.
 - 5. ASTROBRAC STELLAR STAINLESS 5 SECTION 96" CABLE MOUNT AS-Ø125-5-96 FOR 5 SECTION HEAD.

SIGNAL HEAD CODE LEGEND	
Indication Code	Translation
R	Red ball
Y	Yellow ball
G	Green ball
RLA	Red left arrow
YLA	Yellow left arrow
GLA	Green left arrow
RRA	Red right arrow
YRA	Yellow right arrow
GRA	Green right arrow

FIRST NATIONAL BANK
OF ANCHORAGE

LYLE'S FURNITURE
PARKING LOT

JORDAN AVE

GLACIER HWY

TO TOWN

TO AIKE BAY

MAJOR WORK ITEMS AT THIS INTERSECTION

- 1. REPLACE SIGNAL HEADS AS SHOWN.
- 2. INSTALL PTZ CAMERA TO SIGNAL POLE 3.
- 3. INSTALL RADAR DETECTORS AS SHOWN.

SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE						
Signal No. 2, Glacier and Jordan						
Pole No.	Signal Head No.	Mounting Type	Indication	Wavetronix Matrix Unit Detector Number and mounting location	Wavetronix Advance Unit Number and mounting location	PTZ Camera Number and mounting location
2	1	Side-mounted S-1	R-Y-G			
2				1, mast arm		
3	16	Side-mounted S-1	R-Y-G			
3				3, signal pole		
3				4, signal pole		
3						1, mast arm
5	10	See Note 3	R-Y-G			
5	11	Side-mounted S-1	R-Y-G			
5				2, mast arm		
1	2	Side-mounted S-1	R-Y-G			

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TAB: TYPICALS

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 2
GLACIER AND JORDAN



DESIGNED BY: D. EPSTEIN
DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM
SIGNAL NO. 2
GLACIER AND
JORDAN

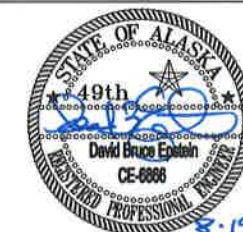
PROJECT DESIGNATION NUMBER	
Z685840000 ~ 0003184	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F3	29

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

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7685840000 ~ 0003184

SIGNAL NO. 2
GLACIER AND JORDAN
WIRING DIAGRAM



DESIGNED BY: D. EPSTEIN

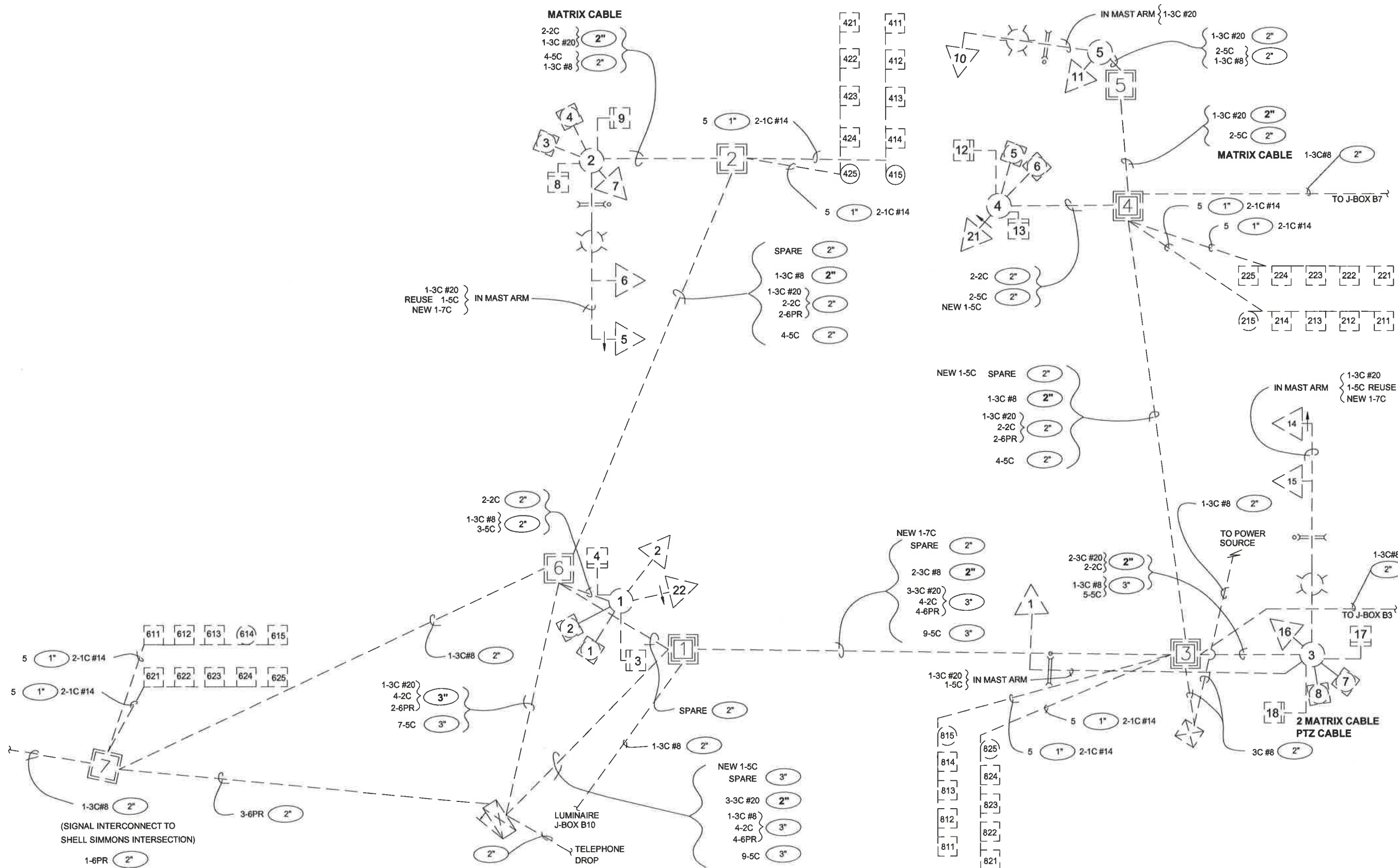
DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM
SIGNAL NO. 2
GLACIER AND
JORDAN
WIRING DIAGRAM

PROJECT DESIGNATION NUMBER

Z685840000 ~ 0003184

STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F4	29



- NOTES:
- 1. SIGNAL NUMBER CORRESPONDS WITH SHEET A1.
 - 2. SEE STANDARD DRAWING T-30.11 FOR MOUNTING TYPE.
 - 3. ASTROBRAC STELLAR STAINLESS 3 SECTION 96" CABLE MOUNT AS-Ø125-3-96 FOR 3 SECTION HEAD.
 - 4. ASTROBRAC STELLAR STAINLESS 4 SECTION 96" CABLE MOUNT AS-Ø125-4-96 FOR 4 SECTION HEAD.
 - 5. ASTROBRAC STELLAR STAINLESS 5 SECTION 96" CABLE MOUNT AS-Ø125-5-96 FOR 5 SECTION HEAD.

SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE						
Signal No. 3, Glacier and Shell Simmons						
Pole No.	Signal Head No.	Mounting Type	Indication	Wavetronix Matrix Unit Detector Number and mounting location	Wavetronix Advance Unit Number and mounting location	PTZ Camera Number and mounting location
1	2	See Note 3	R-Y-G			
1				1, mast arm		
1				2, mast arm		
1						1, mast arm
3	7	Side-mount S-1	R-Y-G			
4	10	See Note 3	R-Y-G			
4				3, mast arm		
5				4, mast arm		
5	16	Side-mounted S-1	R-Y-G			

SIGNAL HEAD CODE LEGEND	
Indication Code	Translation
R	Red ball
Y	Yellow ball
G	Green ball
RLA	Red left arrow
YLA	Yellow left arrow
GLA	Green left arrow
RRA	Red right arrow
YRA	Yellow right arrow
GRA	Green right arrow

- MAJOR WORK ITEMS AT THIS INTERSECTION
- 1. REPLACE SIGNAL HEADS AS SHOWN.
 - 2. INSTALL PTZ CAMERA TO SIGNAL POLE 1.
 - 3. INSTALL RADAR DETECTORS AS SHOWN.

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TAB: TYPICALS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 3
GLACIER AND SHELL SIMMONS

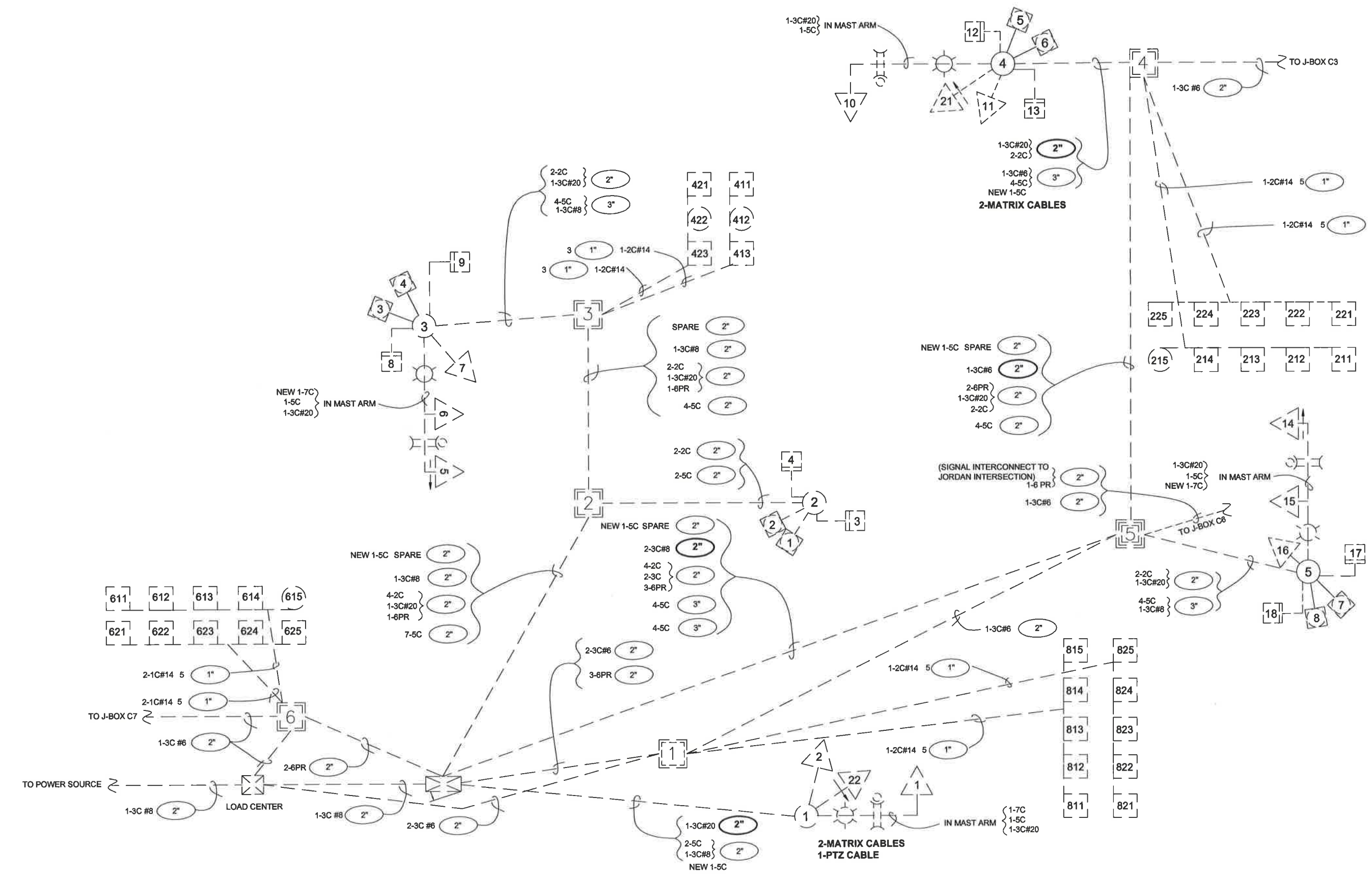
DESIGNED BY: D. EPSTEIN
DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

SIGNAL NO. 3
GLACIER AND
SHELL SIMMONS

PROJECT DESIGNATION NUMBER
Z685840000 ~ 0003184

STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F5	29



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TAB: TYPICALS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 3
GLACIER AND SHELL SIMMONS
WIRING DIAGRAM

8.19.15

DESIGNED BY: D. EPSTEIN	
DRAWN BY: D. STEVENS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM SIGNAL NO. 3 GLACIER AND SHELL SIMMONS WIRING DIAGRAM	
PROJECT DESIGNATION NUMBER	
Z685840000 ~ 0003184	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F6	29

SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE

Signal No. 4, Loop Road and Egan Drive

Pole No.	Signal Head No.	Mounting Type	Indication	Wavetronix Matrix Unit Detector Number and mounting location	Wavetronix Advance Unit Number and mounting location	PTZ Camera Number and mounting location
1	3	Side-mounted S-2	RLA-YLA-GLA			
1	4	Share with Signal No. 3	R-Y-G			
1	1	See Note 3	RLA-YLA-GLA			
1	2	See Note 4	R-Y-G-GLA			1, mast arm
1				1, mast arm		
2	10	Side-mounted S-1	R-Y-G			
2	7	See Note 3	R-Y-G			
2	8	See Note 3	RLA-YLA-GLA			
2				2, mast arm		
2					4, mast arm	
2					3, mast arm	
3	12	Side-mount S-1	RLA-YLA-GLA			
3	9	Side-mount S-1	R-Y-G-GLA			
3	13	See Note 4	R-Y-G-GLA			
3				5, mast arm		
4	18	Side-mounted S-2	RLA-YLA-GLA			
4	19	Share with Signal No. 18	R-Y-G			
4	14	See Note 3	RLA-YLA-GLA			
4	16	See Note 3	R-Y-G			
4				4, mast arm		
5	17	Post-mounted T-1	R-Y-G			
8	26	Post-mounted T-2	R-Y-G			
8	27	Share with Signal No. 26	RLA-YLA-GLA			

NOTES:

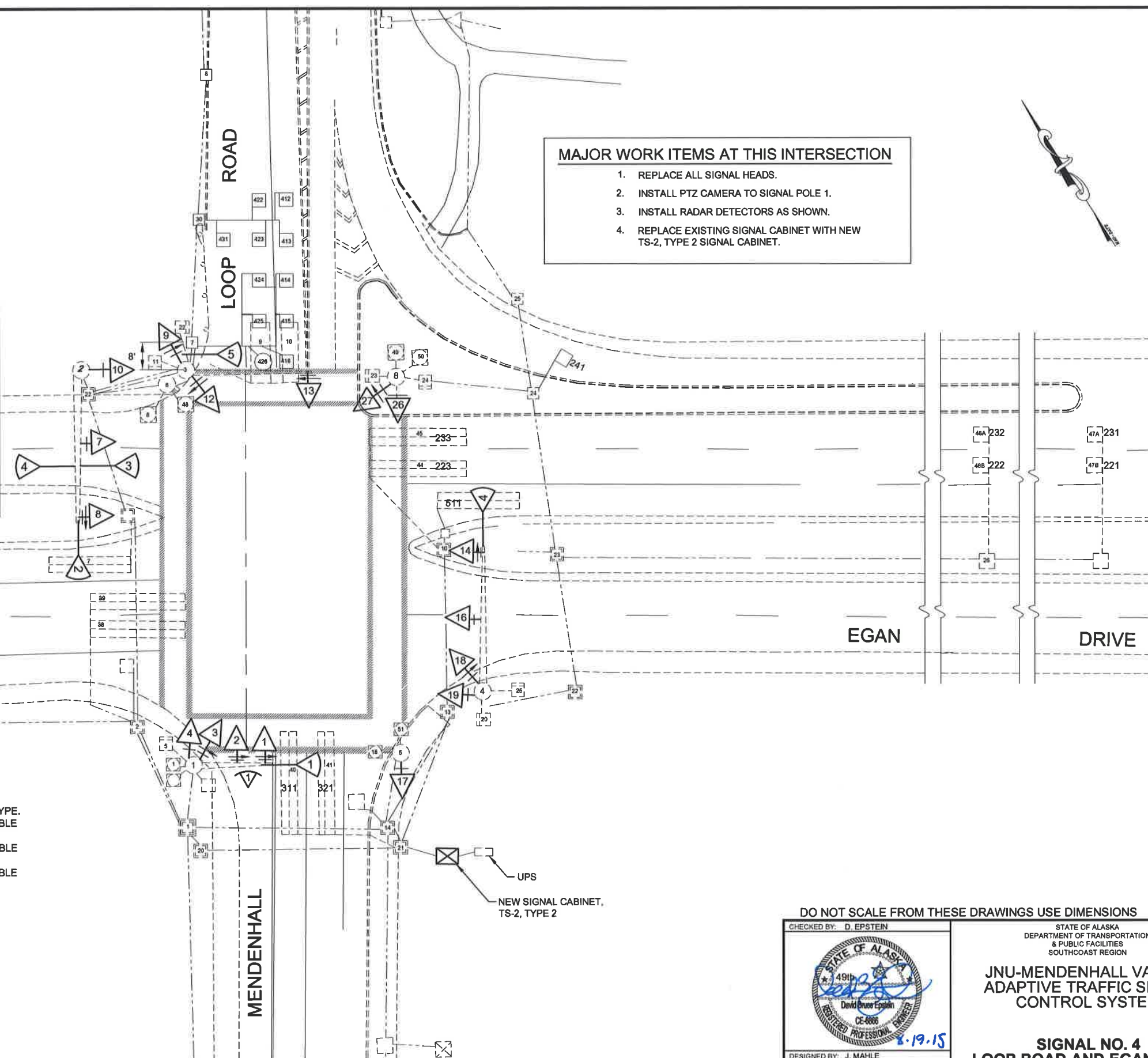
1. SIGNAL NUMBER CORRESPONDS WITH SHEET A1.
2. SEE STANDARD DRAWING T-30.11 FOR MOUNTING TYPE.
3. ASTROBRAC STELLAR STAINLESS 3 SECTION 96" CABLE MOUNT AS-Ø125-3-96 FOR 3 SECTION HEAD.
4. ASTROBRAC STELLAR STAINLESS 4 SECTION 96" CABLE MOUNT AS-Ø125-4-96 FOR 4 SECTION HEAD.
5. ASTROBRAC STELLAR STAINLESS 5 SECTION 96" CABLE MOUNT AS-Ø125-5-96 FOR 5 SECTION HEAD.

SIGNAL HEAD CODE LEGEND

Indication Code	Translation
R	Red ball
Y	Yellow ball
G	Green ball
RLA	Red left arrow
YLA	Yellow left arrow
GLA	Green left arrow
RRA	Red right arrow
YRA	Yellow right arrow
GRA	Green right arrow

MAJOR WORK ITEMS AT THIS INTERSECTION

1. REPLACE ALL SIGNAL HEADS.
2. INSTALL PTZ CAMERA TO SIGNAL POLE 1.
3. INSTALL RADAR DETECTORS AS SHOWN.
4. REPLACE EXISTING SIGNAL CABINET WITH NEW TS-2, TYPE 2 SIGNAL CABINET.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN



DESIGNED BY: J. MAHLE

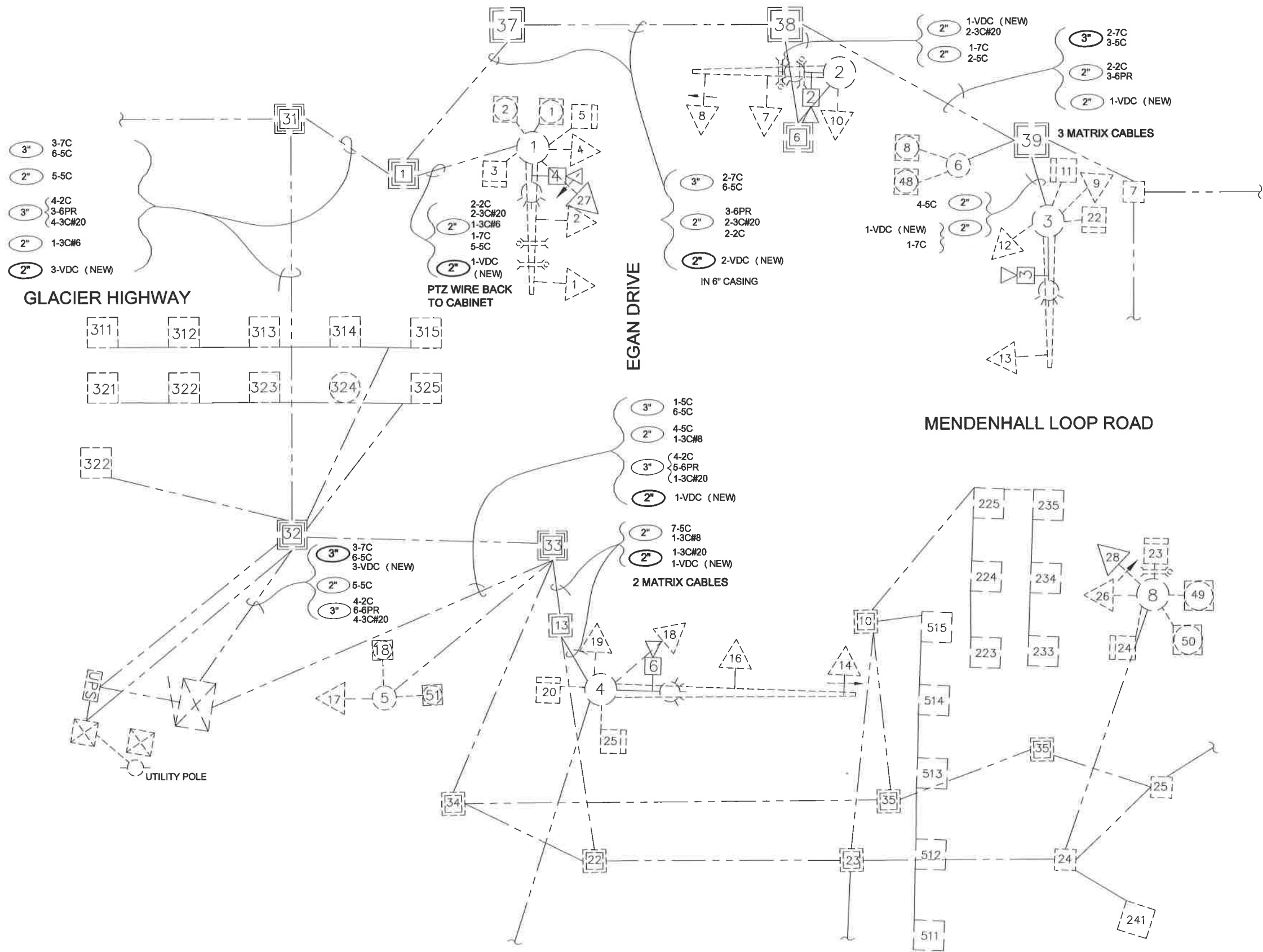
DRAWN BY: D. STEVENS

PATH: Q:\JNU\06584\PLANSET\06584_LOOP RD & EGAN DRIVE.DWG

TAB: MODEL Wednesday, August 19, 2015 7:42:19 AM STEVENS, DAVID A (DOT)

REVISIONS			PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			Z685840000-0003184		2015	F7	29

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGIONJNU-MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEMSIGNAL NO. 4
LOOP ROAD AND EGAN DRIVE

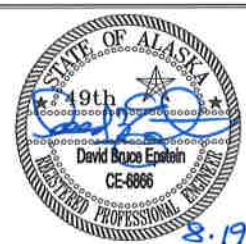


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Tue, 18/Aug/15 02:54PM
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TAB: TYPICALS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

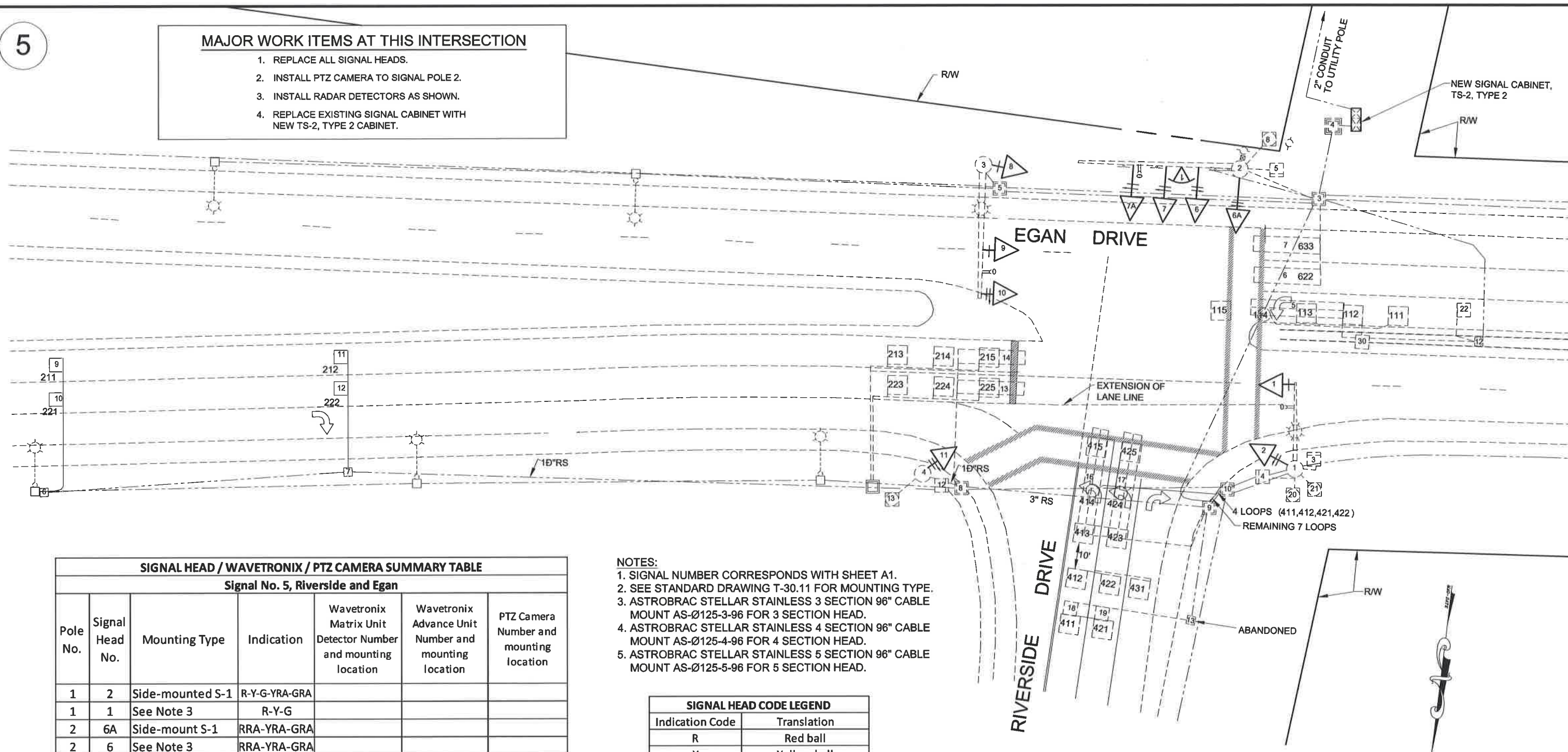
SIGNAL NO. 4
LOOP ROAD AND EGAN DRIVE
WIRING DIAGRAM



DESIGNED BY: D. EPSTEIN	
DRAWN BY: D. STEVENS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
SIGNAL NO. 4 LOOP ROAD AND EGAN DRIVE WIRING DIAGRAM	
PROJECT DESIGNATION NUMBER Z685840000 ~ 0003184	
STATE ALASKA	YEAR 2015
SHEET NUMBER F8	TOTAL SHEETS 29

MAJOR WORK ITEMS AT THIS INTERSECTION

1. REPLACE ALL SIGNAL HEADS.
2. INSTALL PTZ CAMERA TO SIGNAL POLE 2.
3. INSTALL RADAR DETECTORS AS SHOWN.
4. REPLACE EXISTING SIGNAL CABINET WITH NEW TS-2, TYPE 2 CABINET.



SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE

Signal No. 5, Riverside and Egan

Pole No.	Signal Head No.	Mounting Type	Indication	Wavetronix Matrix Unit Detector Number and mounting location	Wavetronix Advance Unit Number and mounting location	PTZ Camera Number and mounting location
1	2	Side-mounted S-1	R-Y-G-YRA-GRA			
1	1	See Note 3	R-Y-G			
2	6A	Side-mount S-1	RRA-YRA-GRA			
2	6	See Note 3	RRA-YRA-GRA			
2	7	See Note 3	RLA-YLA-GLA			
2	7A	See Note 3	RLA-YLA-GLA			
2						1, mast arm
3	8	Side-mounted S-1	R-Y-G			
3	9	See Note 3	R-Y-G			
3	10	See Note 3	RLA-YLA-GLA			
4	11	Side-mounted S-1	RLA-YLA-GLA			

NOTES:

1. SIGNAL NUMBER CORRESPONDS WITH SHEET A1.
2. SEE STANDARD DRAWING T-30.11 FOR MOUNTING TYPE.
3. ASTROBRAC STELLAR STAINLESS 3 SECTION 96" CABLE MOUNT AS-Ø125-3-96 FOR 3 SECTION HEAD.
4. ASTROBRAC STELLAR STAINLESS 4 SECTION 96" CABLE MOUNT AS-Ø125-4-96 FOR 4 SECTION HEAD.
5. ASTROBRAC STELLAR STAINLESS 5 SECTION 96" CABLE MOUNT AS-Ø125-5-96 FOR 5 SECTION HEAD.

SIGNAL HEAD CODE LEGEND

Indication Code	Translation
R	Red ball
Y	Yellow ball
G	Green ball
RLA	Red left arrow
YLA	Yellow left arrow
GLA	Green left arrow
RRA	Red right arrow
YRA	Yellow right arrow
GRA	Green right arrow

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN



DESIGNED BY: J. MAHLE

DRAWN BY: D. STEVENS

PATH: Q:\JNU\08584\PLANSET\08584_RIVERSIDE & EGAN.DWG

TAB: F9 Monday, August 17, 2015 1:30:03 PM

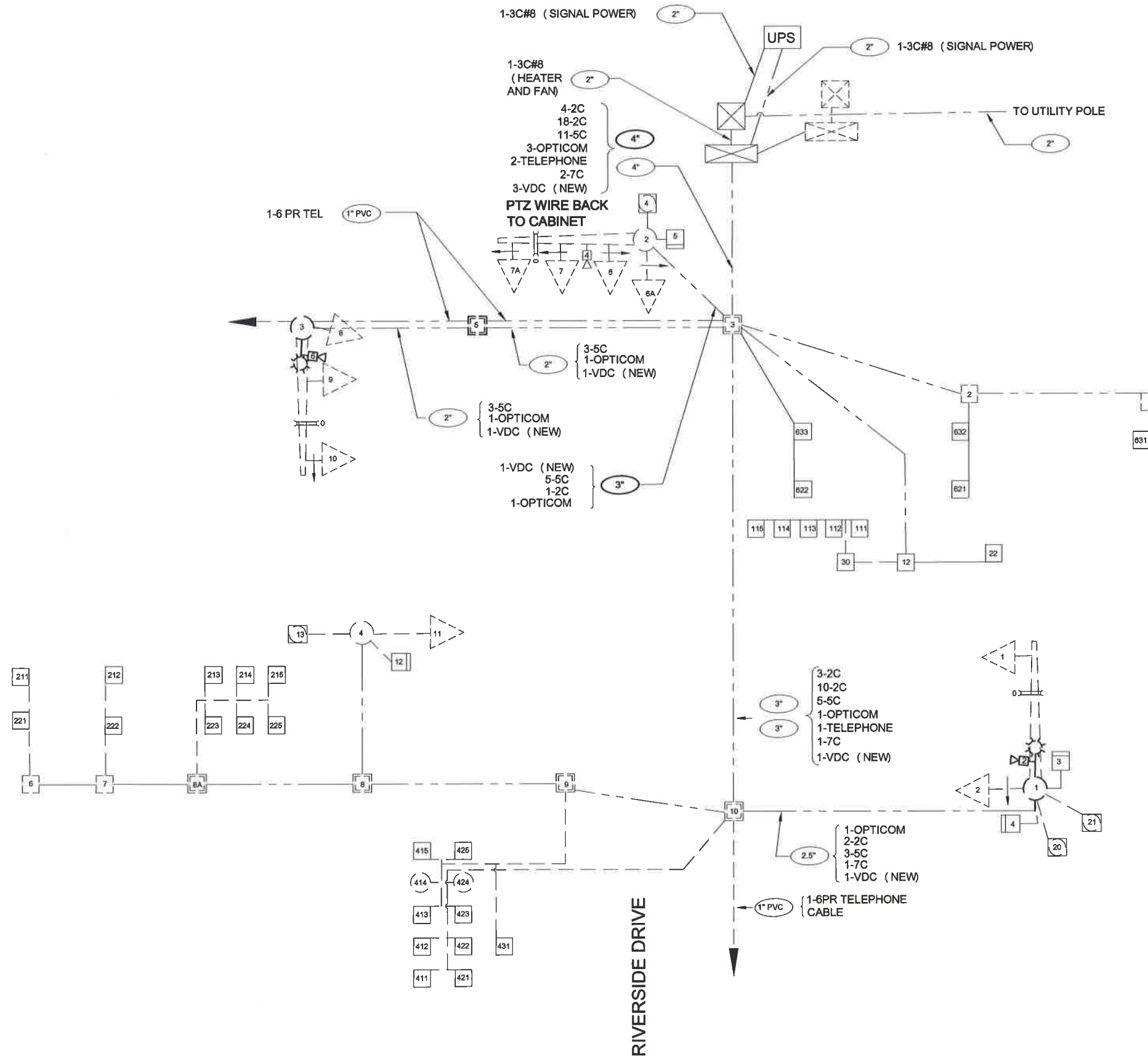
STEVENS, DAVID A (DOT)

REVISIONS		
NO.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGIONJNU-MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEMSIGNAL NO. 5
RIVERSIDE AND EGAN DRIVEPROJECT DESIGNATION
Z685840000-0003184YEAR
2015SHEET
NO. F9TOTAL
SHEETS 29

NOTES:

1. ALL EXISTING ELECTRICAL SHOWN IS TO REMAIN UNLESS OTHERWISE NOTED.



PATH:
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Tue, 18/Aug/15 02:55PM
PLOT:
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TAB: TYPICALS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 5
RIVERSIDE AND EGAN DRIVE
WIRING DIAGRAM



DESIGNED BY: D. EPSTEIN

DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

SIGNAL NO. 5
RIVERSIDE AND EGAN DRIVE
WIRING DIAGRAM

PROJECT DESIGNATION NUMBER

Z685840000 ~ 0003184

STATE YEAR

ALASKA 2015

SHEET NUMBER TOTAL SHEETS

F10 29

SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE

Signal No. 6, Loop Road and Mall Road						
Pole No.	Signal Head No.	Mounting Type	Indication	Wavetronix Matrix Unit Detector Number and mounting location	Wavetronix Advance Unit Number and mounting location	PTZ Camera Number and mounting location
1	3	Side-mounted S-2	RLA-YLA-GLA			
1	4	Share with Signal No. 3	R-Y-G			
1	2	See Note 3	R-Y-G			
2	8	Side-mounted S-1	R-Y-G			
2	5	See Note 3	RLA-YLA-GLA			
2	6	See Note 3	R-Y-G			
2				3, mast arm		
2				4, mast arm		
3	11	Side-mounted S-2	RLA-YLA-GLA			
3	12	Share with Signal No. 11	R-Y-G			
3	10	See Note 3	R-Y-G			
3						1, mast arm
4	15	Side-mounted S-1	R-Y-G			
4	14	See Note 3	R-Y-G			
4	13	See Note 3	RLA-YLA-GLA			
4				1, mast arm		
4				2, mast arm		

MAJOR WORK ITEMS AT THIS INTERSECTION

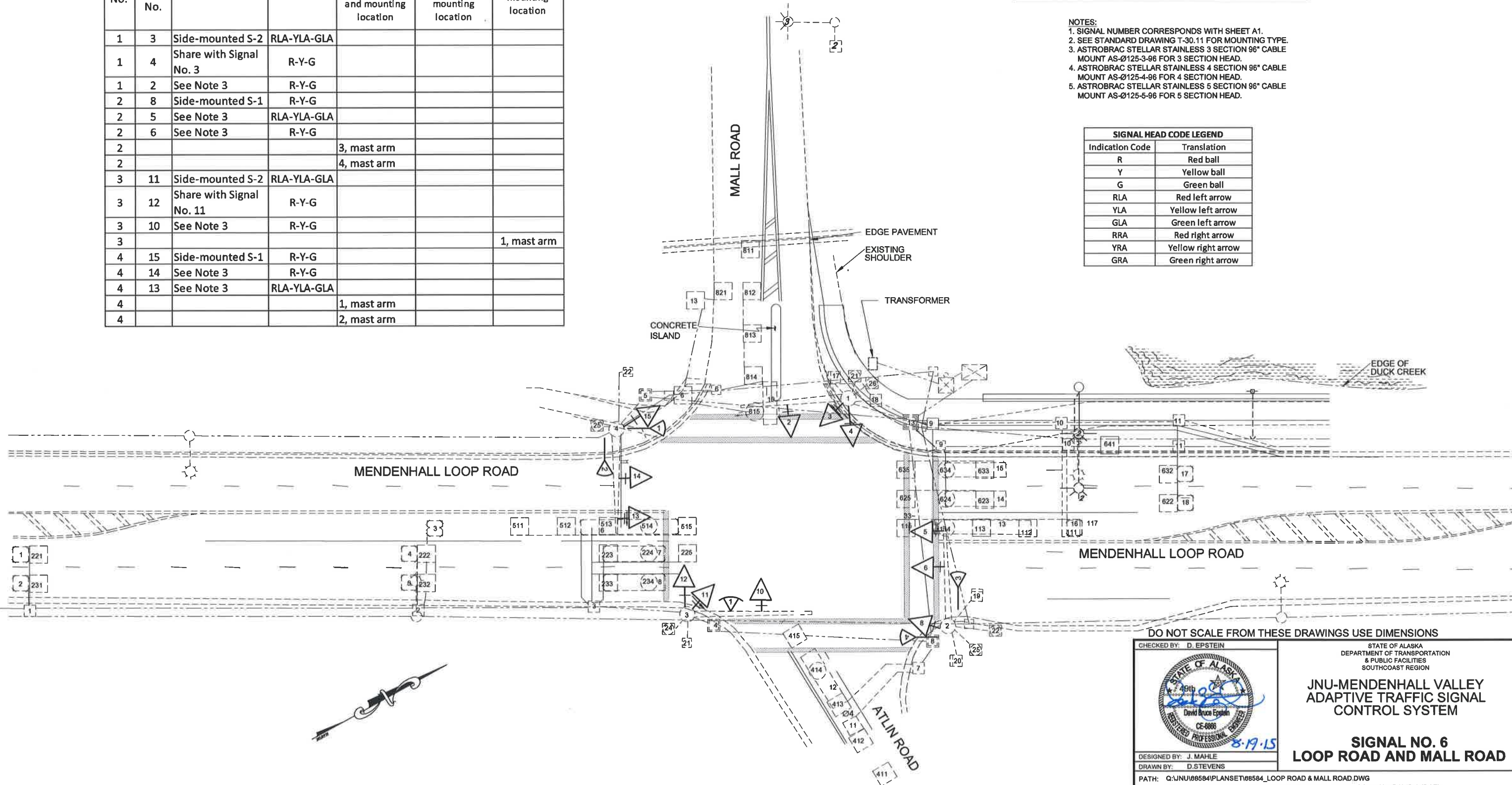
1. REPLACE ALL SIGNAL HEADS.
2. INSTALL PTZ CAMERA TO SIGNAL POLE 3.
3. INSTALL RADAR DETECTORS AS SHOWN.

NOTES:

1. SIGNAL NUMBER CORRESPONDS WITH SHEET A1.
2. SEE STANDARD DRAWING T-30.11 FOR MOUNTING TYPE.
3. ASTROBRAC STELLAR STAINLESS 3 SECTION 96" CABLE MOUNT AS-Ø125-3-96 FOR 3 SECTION HEAD.
4. ASTROBRAC STELLAR STAINLESS 4 SECTION 96" CABLE MOUNT AS-Ø125-4-96 FOR 4 SECTION HEAD.
5. ASTROBRAC STELLAR STAINLESS 5 SECTION 96" CABLE MOUNT AS-Ø125-5-96 FOR 5 SECTION HEAD.

SIGNAL HEAD CODE LEGEND

Indication Code	Translation
R	Red ball
Y	Yellow ball
G	Green ball
RLA	Red left arrow
YLA	Yellow left arrow
GLA	Green left arrow
RRA	Red right arrow
YRA	Yellow right arrow
GRA	Green right arrow



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN



DESIGNED BY: J. MAHLE

DRAWN BY: D. STEVENS

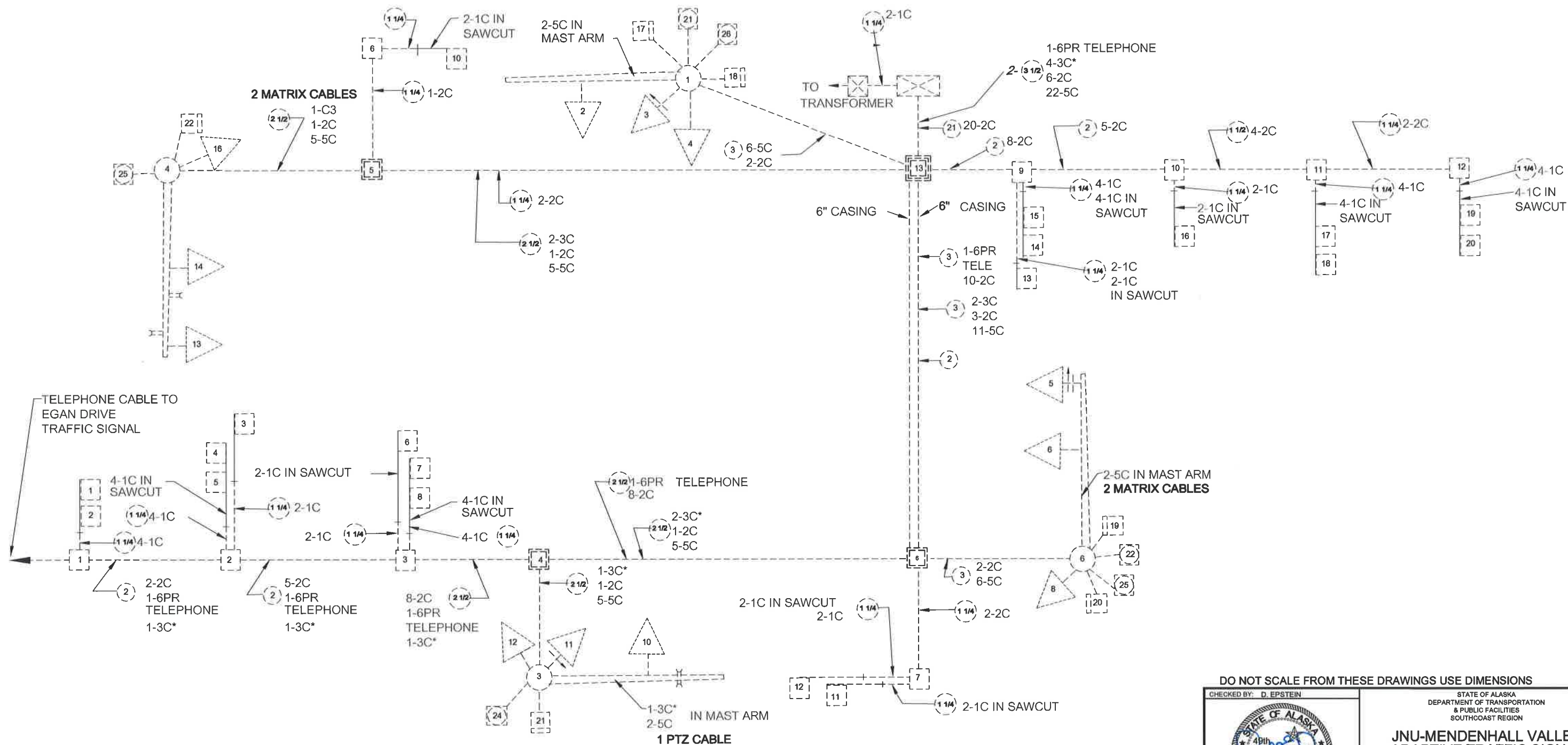
PATH: Q:\JNU\08584\PLANSET\08584_LOOP ROAD & MALL ROAD.DWG

TAB: F11 Tuesday, August 18, 2015 2:41:52 PM STEVENS, DAVID A (DOT)

REVISIONS		
NO.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGIONJNU-MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM**SIGNAL NO. 6**
LOOP ROAD AND MALL ROAD

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
Z685840000~0003184	2015	F11	29



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN



DESIGNED BY: J. MAHLE

DRAWN BY: D. STEVENS

PATH: Q:\JNU\08564\PLANSET\08564_LOOP RD & MALL RD WIRING.DWG

TAB: F12

Tuesday, August 18, 2015 11:12:15 AM

STEVENS, DAVID A (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			Z685840000~0003184	2015	F12	29

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGIONJNU-MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEMSIGNAL NO. 6
LOOP ROAD AND MALL ROAD
WIRING DIAGRAM

POST OFFICE

SIGNAL HEAD CODE LEGEND	
Indication Code	Translation
R	Red ball
Y	Yellow ball
G	Green ball
RLA	Red left arrow
YLA	Yellow left arrow
GLA	Green left arrow
RRA	Red right arrow
YRA	Yellow right arrow
GRA	Green right arrow

- NOTES:
1. SIGNAL NUMBER CORRESPONDS WITH SHEET A1.
 2. SEE STANDARD DRAWING T-30.11 FOR MOUNTING TYPE.
 3. ASTROBRAC STELLAR STAINLESS 3 SECTION 96" CABLE MOUNT AS-Ø125-3-96 FOR 3 SECTION HEAD.
 4. ASTROBRAC STELLAR STAINLESS 4 SECTION 96" CABLE MOUNT AS-Ø125-4-96 FOR 4 SECTION HEAD.
 5. ASTROBRAC STELLAR STAINLESS 5 SECTION 96" CABLE MOUNT AS-Ø125-5-96 FOR 5 SECTION HEAD.

EXISTING CONTROL CABINET AND FOUNDATION

EXISTING LOAD CENTER

SAFEWAY

MAJOR WORK ITEMS AT THIS INTERSECTION

1. REPLACE SIGNAL HEAD AS SHOWN.
2. REPLACE POLE 7 AND PEDESTRIAN HARDWARE.
3. INSTALL PTZ CAMERA ON SIGNAL POLE 1.

SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE

Signal No. 7, Riverside Drive and Mall Road

Pole No.	Signal Head No.	Mounting Type	Indication	Wavetronix Matrix Unit Detector Number and mounting location	Wavetronix Advance Unit Number and mounting location	PTZ Camera Number and mounting location
1						1, signal pole
7	19	Post-mounted T-1	R-Y-G			

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Mon, 17/Aug/15 02:39PM
PLOT:
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TAB: TYPICALS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 7
RIVERSIDE AND MALL ROAD



DESIGNED BY: D. EPSTEIN

DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

SIGNAL NO. 7
RIVERSIDE AND
MALL ROAD

PROJECT DESIGNATION NUMBER

Z685840000 ~ 0003184

STATE

YEAR

ALASKA

2015

SHEET NUMBER

TOTAL SHEETS

F13

29

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 7
RIVERSIDE AND MALL ROAD



DESIGNED BY: D. EPSTEIN

DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

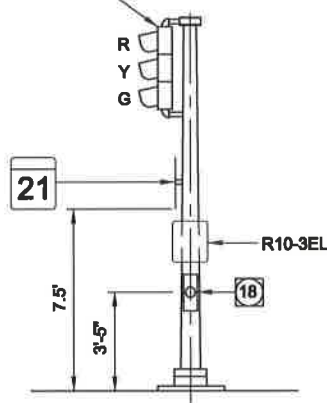
SIGNAL NO. 7
RIVERSIDE AND
MALL ROAD

PROJECT DESIGNATION NUMBER

Z685840000 ~ 0003184

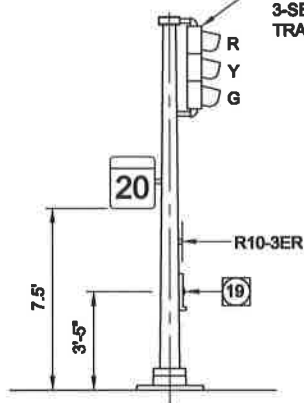
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F 14	29

POST-MOUNTED
3-SECTION HEAD
TRAFFIC SIGNAL #19

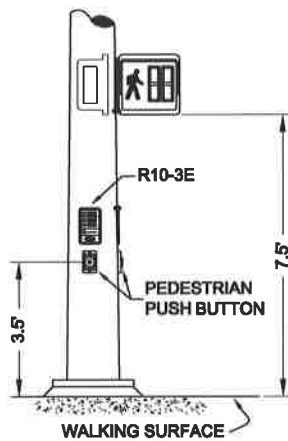


**SIGNAL NO. 7
POLE 7
LOOKING NORTH**

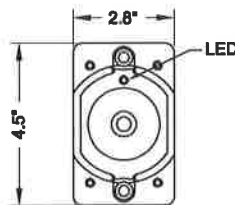
POST-MOUNTED
3-SECTION HEAD
TRAFFIC SIGNAL #19



**SIGNAL NO. 7
POLE 7
LOOKING SOUTH**

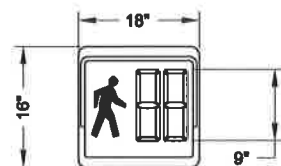


PEDESTRIAN HARDWARE



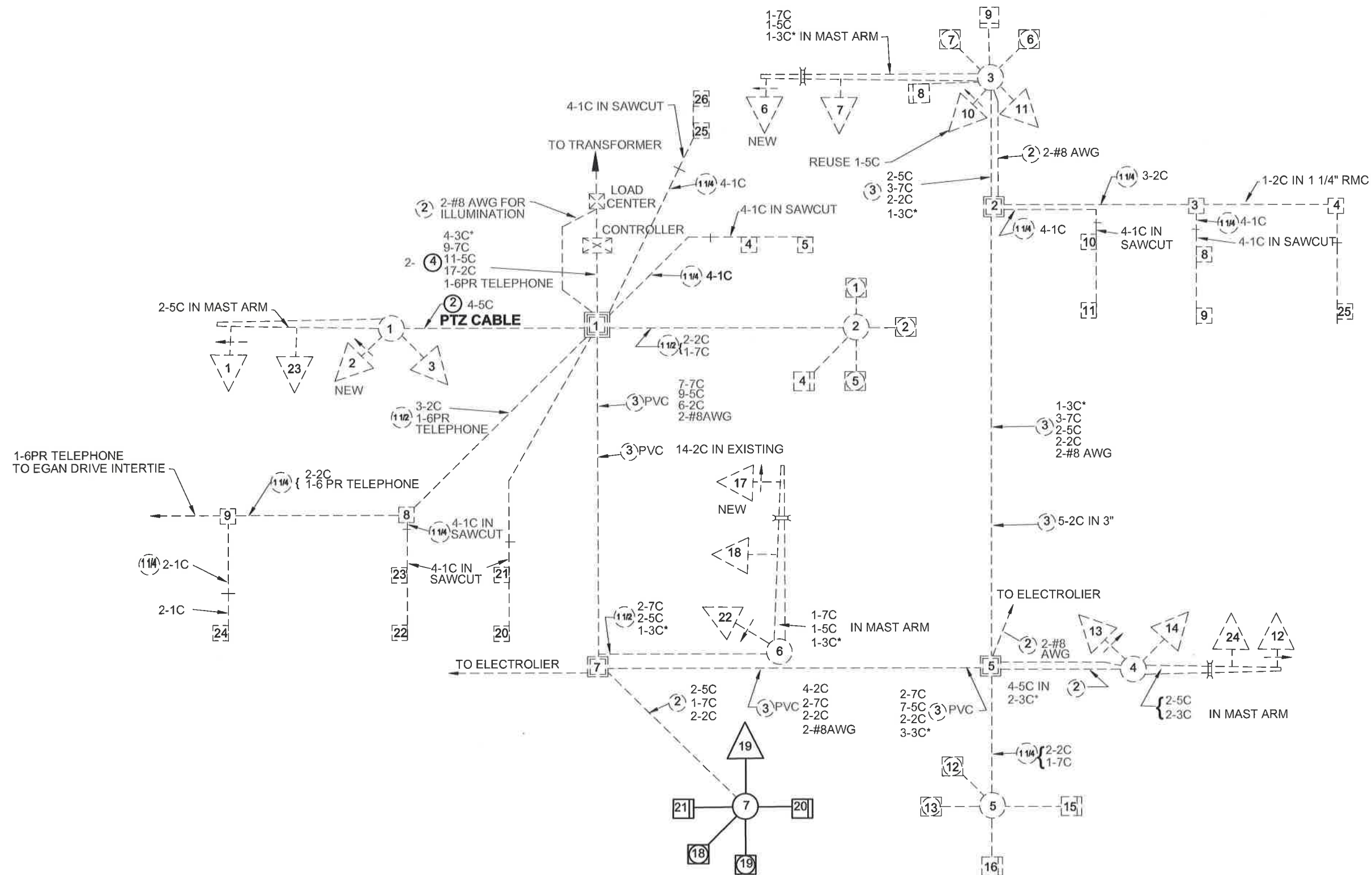
PED PUSH BUTTON

NOTE:
BEEPER TO SOUND SIMULTANEOUSLY
WITH LED FLASH. USE POLARA BULLDOG
PUSHBUTTON OR ENGINEER APPROVED
EQUAL.



**COUNTDOWN PED
SIGNAL**

7



PATH:
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TAB: TYPICALS

ADDENDUM NUMBER

ATTACHMENT NUMBER

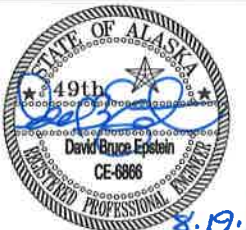
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

Z685840000 ~ 0003184

**SIGNAL NO. 7
RIVERSIDE AND MALL ROAD
WIRING DIAGRAM**



DESIGNED BY: D. EPSTEIN

DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM
SIGNAL NO. 7
RIVERSIDE AND
MALL ROAD
WIRING DIAGRAM

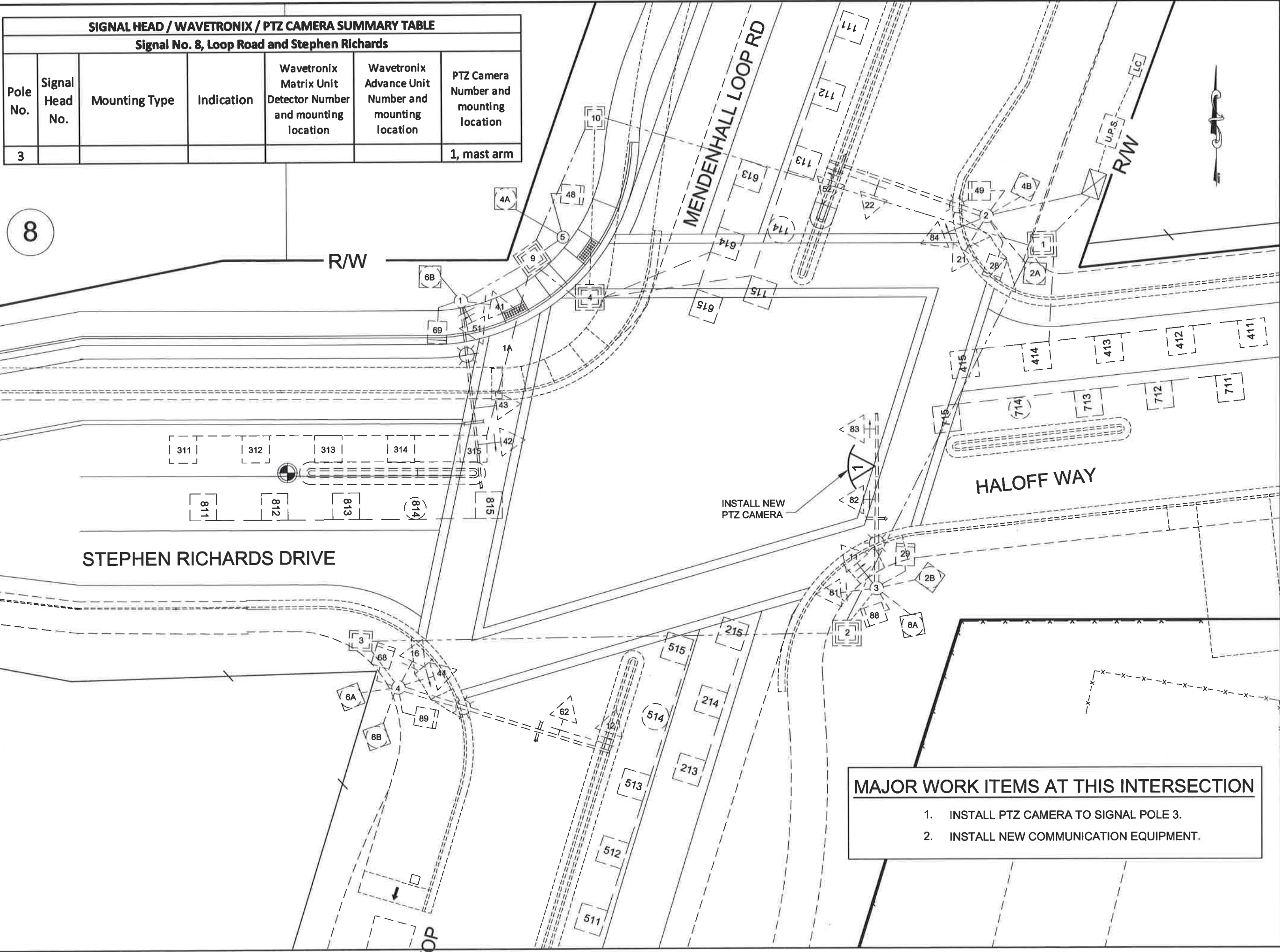
PROJECT DESIGNATION NUMBER

Z685840000 ~ 0003184

STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEET
F15	29

SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE						
Signal No. 8, Loop Road and Stephen Richards						
Pole No.	Signal Head No.	Mounting Type	Indication	Wavetronix Matrix Unit Detector Number and mounting location	Wavetronix Advance Unit Number and mounting location	PTZ Camera Number and mounting location
3						1, mast arm

8



- MAJOR WORK ITEMS AT THIS INTERSECTION**
1. INSTALL PTZ CAMERA TO SIGNAL POLE 3.
 2. INSTALL NEW COMMUNICATION EQUIPMENT.

PATH:
Q:\jnu\68584\Planset\68584_Loop Rd & Step
Tue, 18/Aug/15 02:57PM
PLOT:
PSPACE 1=1 (F) OR MSPACE 1=1 (F)
TAB: TYPICALS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 8
LOOP ROAD AND
STEPHEN RICHARDS

DESIGNED BY: D. EPSTEIN
DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

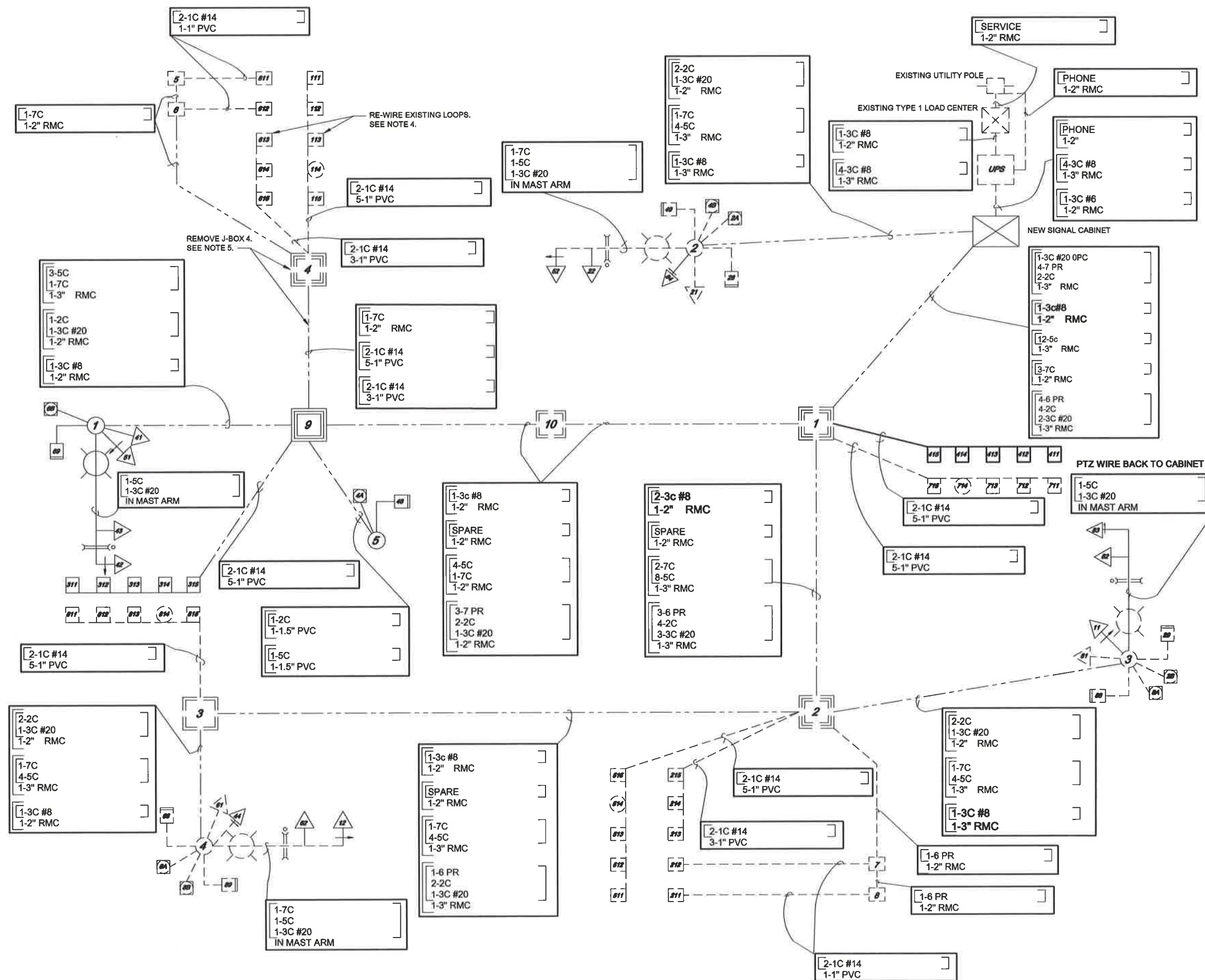
SIGNAL NO. 8
LOOP ROAD AND
STEPHEN RICHARDS

PROJECT DESIGNATION NUMBER
Z685840000 ~ 0003184

STATE	YEAR
ALASKA	2015

SHEET NUMBER	TOTAL SHEETS
F16	29

8



PATH:
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TAB: TYPICALS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

**SIGNAL NO. 8
LOOP ROAD AND STEPHEN RICHARDS
WIRING DIAGRAM**



DESIGNED BY: D. EPSTEIN

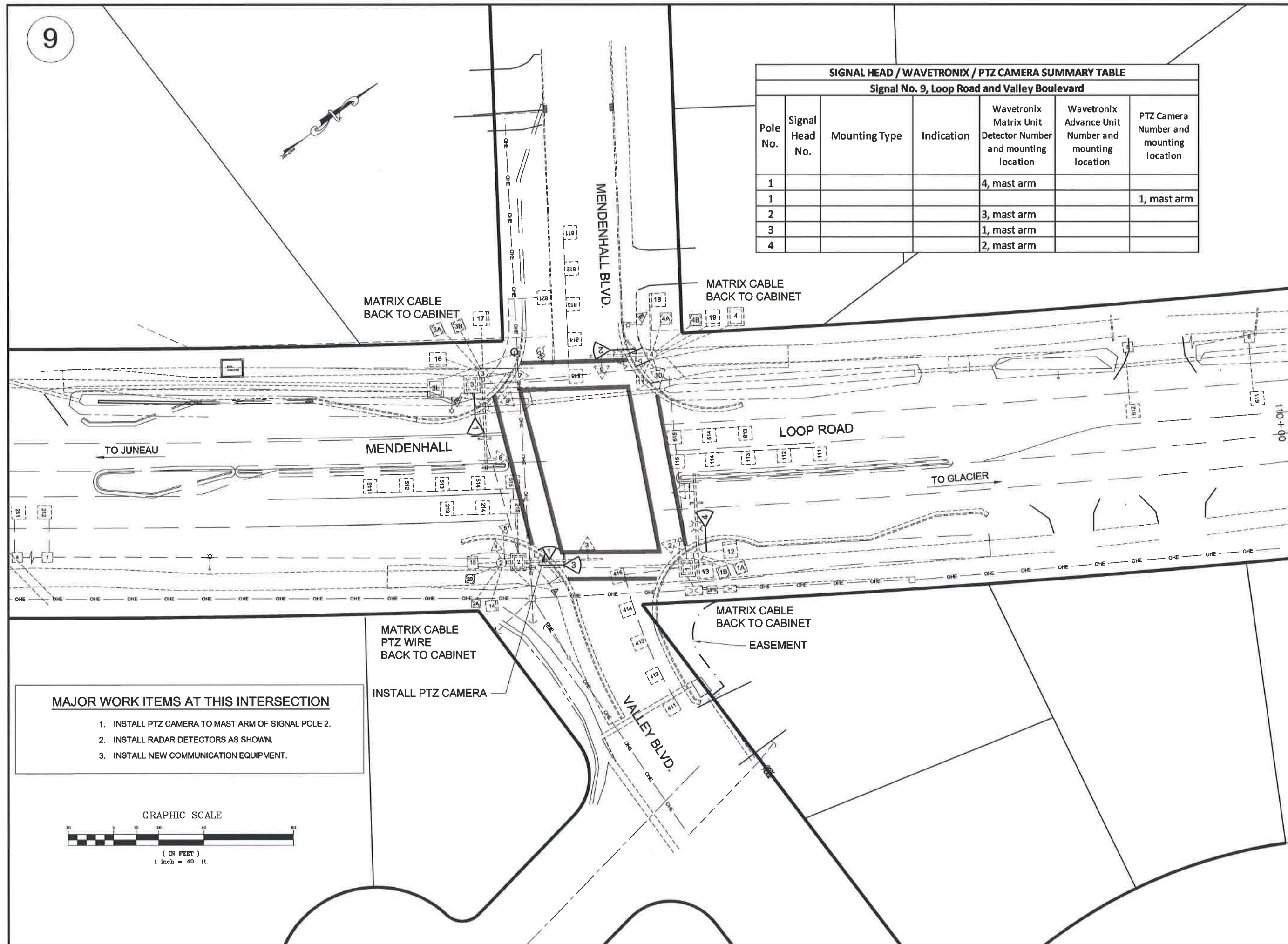
DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC SAFETY
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM
SIGNAL NO. 8
LOOP ROAD AND
STEPHEN RICHARDS
WIRING DIAGRAM

PROJECT DESIGNATION NUMBER

Z685840000 ~ 0003184

STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F17	29



SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE

Signal No. 9, Loop Road and Valley Boulevard

Pole No.	Signal Head No.	Mounting Type	Indication	Wavetronix Matrix Unit Detector Number and mounting location	Wavetronix Advance Unit Number and mounting location	PTZ Camera Number and mounting location
1				4, mast arm		
1						1, mast arm
2				3, mast arm		
3				1, mast arm		
4				2, mast arm		

MATRIX CABLE
BACK TO CABINETMATRIX CABLE
BACK TO CABINET

MENDENHALL

LOOP ROAD

TO GLACIER

MATRIX CABLE
PTZ WIRE
BACK TO CABINET

INSTALL PTZ CAMERA

MATRIX CABLE
BACK TO CABINET

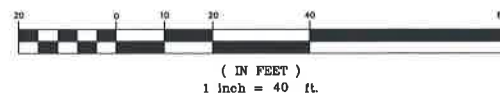
EASEMENT

VALLEY BLVD.

MAJOR WORK ITEMS AT THIS INTERSECTION

1. INSTALL PTZ CAMERA TO MAST ARM OF SIGNAL POLE 2.
2. INSTALL RADAR DETECTORS AS SHOWN.
3. INSTALL NEW COMMUNICATION EQUIPMENT.

GRAPHIC SCALE



PATH:
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Tue, 18/Aug/15 09:12AM
PLOT:
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TAB: TYPICALS

ADDENDUM NUMBER

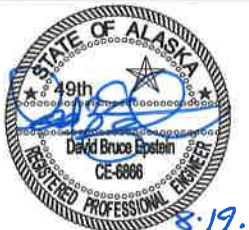
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 9
LOOP ROAD AND
VALLEY BOULEVARD



DESIGNED BY: D. EPSTEIN

DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION

MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

SIGNAL NO. 9
LOOP ROAD AND
VALLEY BOULEVARD

PROJECT DESIGNATION NUMBER

Z685840000 ~ 0003184

STATE

YEAR

ALASKA

2015

SHEET NUMBER

TOTAL SHEETS

F18

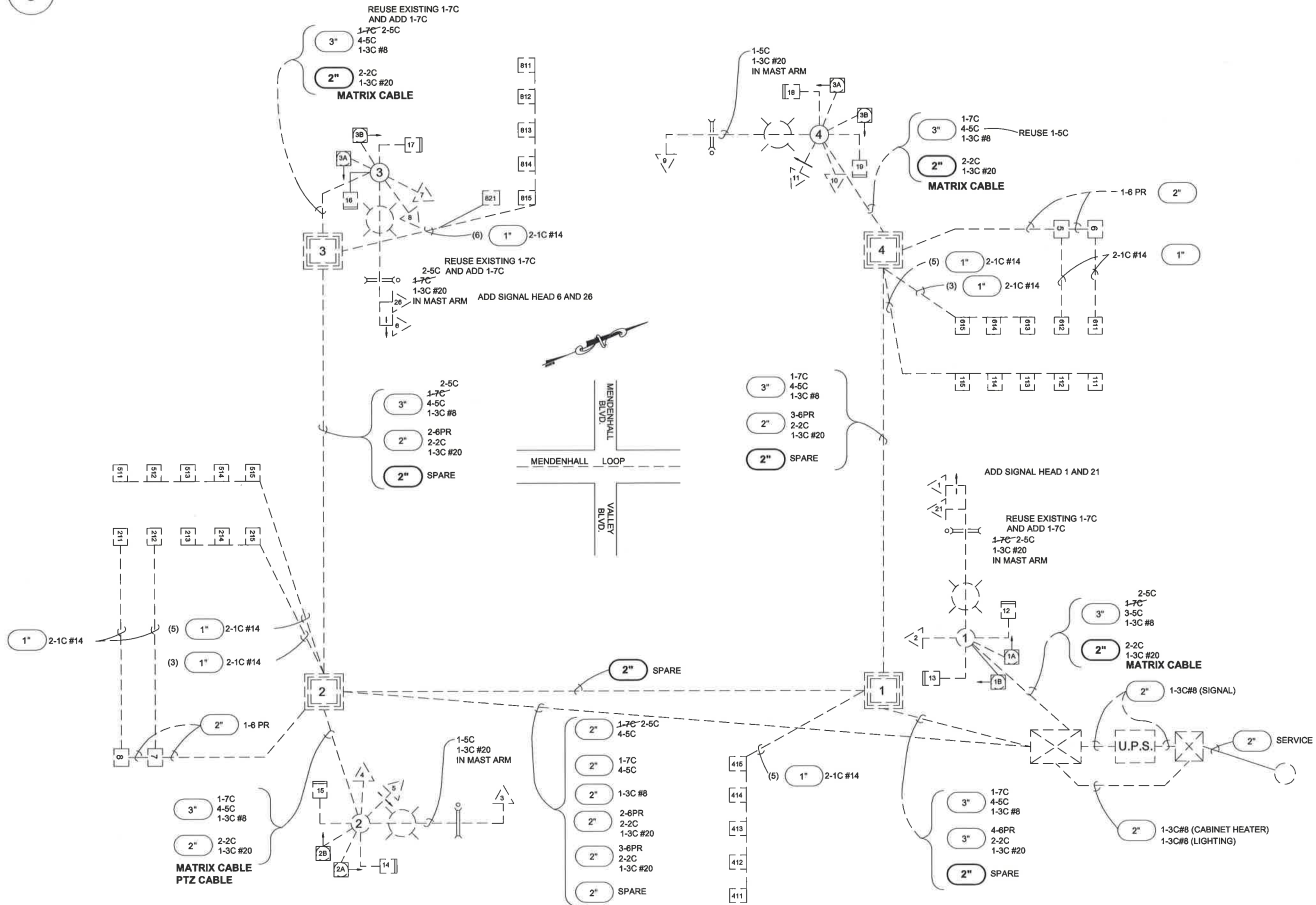
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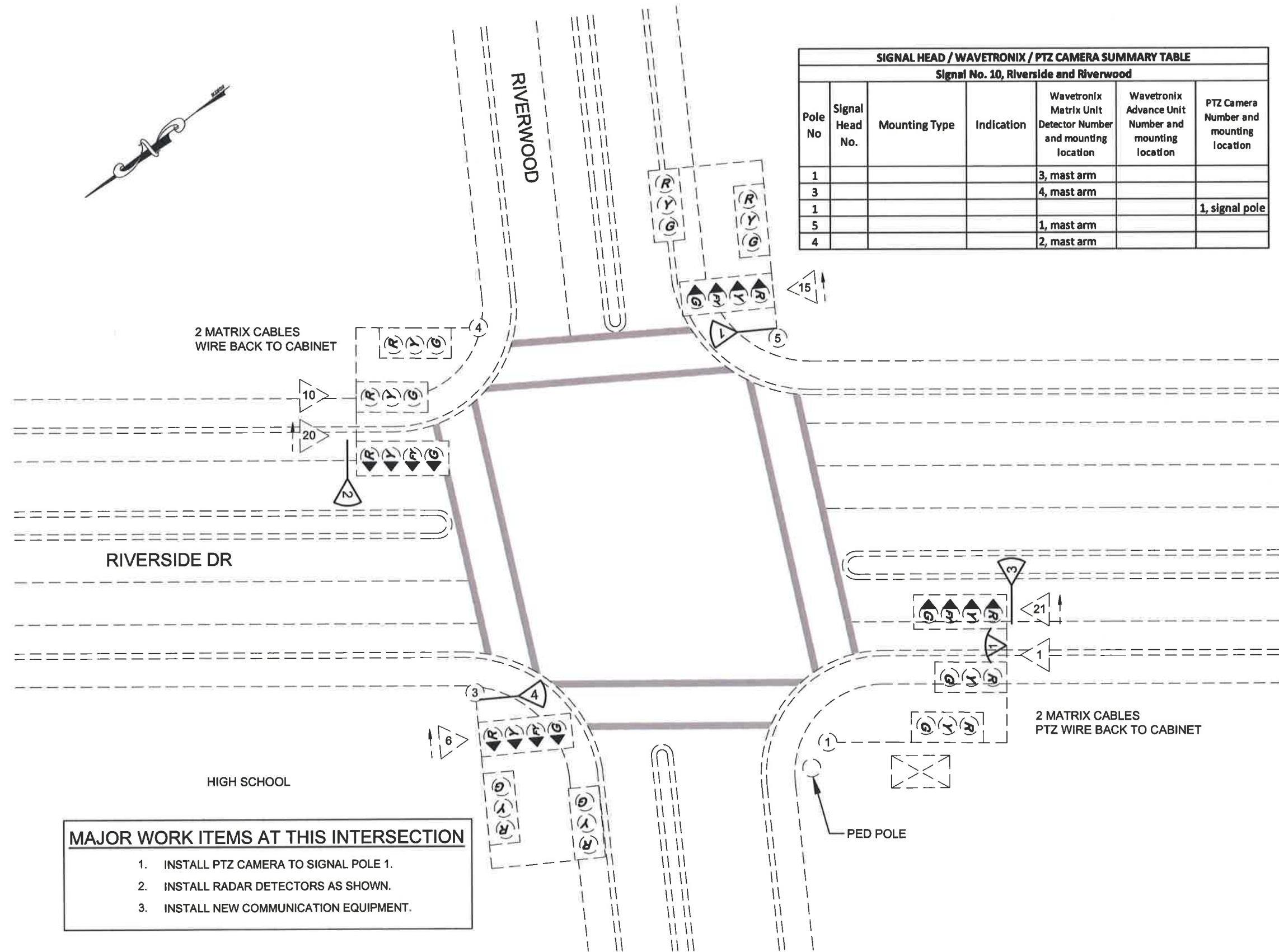
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

STATE OF ALASKA
49th
David Bruce Epstein
CE-6866
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F19	29





Signal Head / WAVETRONIX / PTZ CAMERA SUMMARY TABLE						
Signal No. 10, Riverside and Riverwood						
Pole No	Signal Head No.	Mounting Type	Indication	Wavetronix Matrix Unit Detector Number and mounting location	Wavetronix Advance Unit Number and mounting location	PTZ Camera Number and mounting location
1				3, mast arm		
3				4, mast arm		
1						1, signal pole
5				1, mast arm		
4				2, mast arm		

- MAJOR WORK ITEMS AT THIS INTERSECTION**
- 1. INSTALL PTZ CAMERA TO SIGNAL POLE 1.
 - 2. INSTALL RADAR DETECTORS AS SHOWN.
 - 3. INSTALL NEW COMMUNICATION EQUIPMENT.

PATH: Q:\Jnu\68584\Planset\68584_Riverside & Riverwood.dwg Tue, 18/Aug/15 02:26PM PLOT: PSPACE 1=1 (F) OR MSPACE 1=1 (F) TAB: TYPICALS		
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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

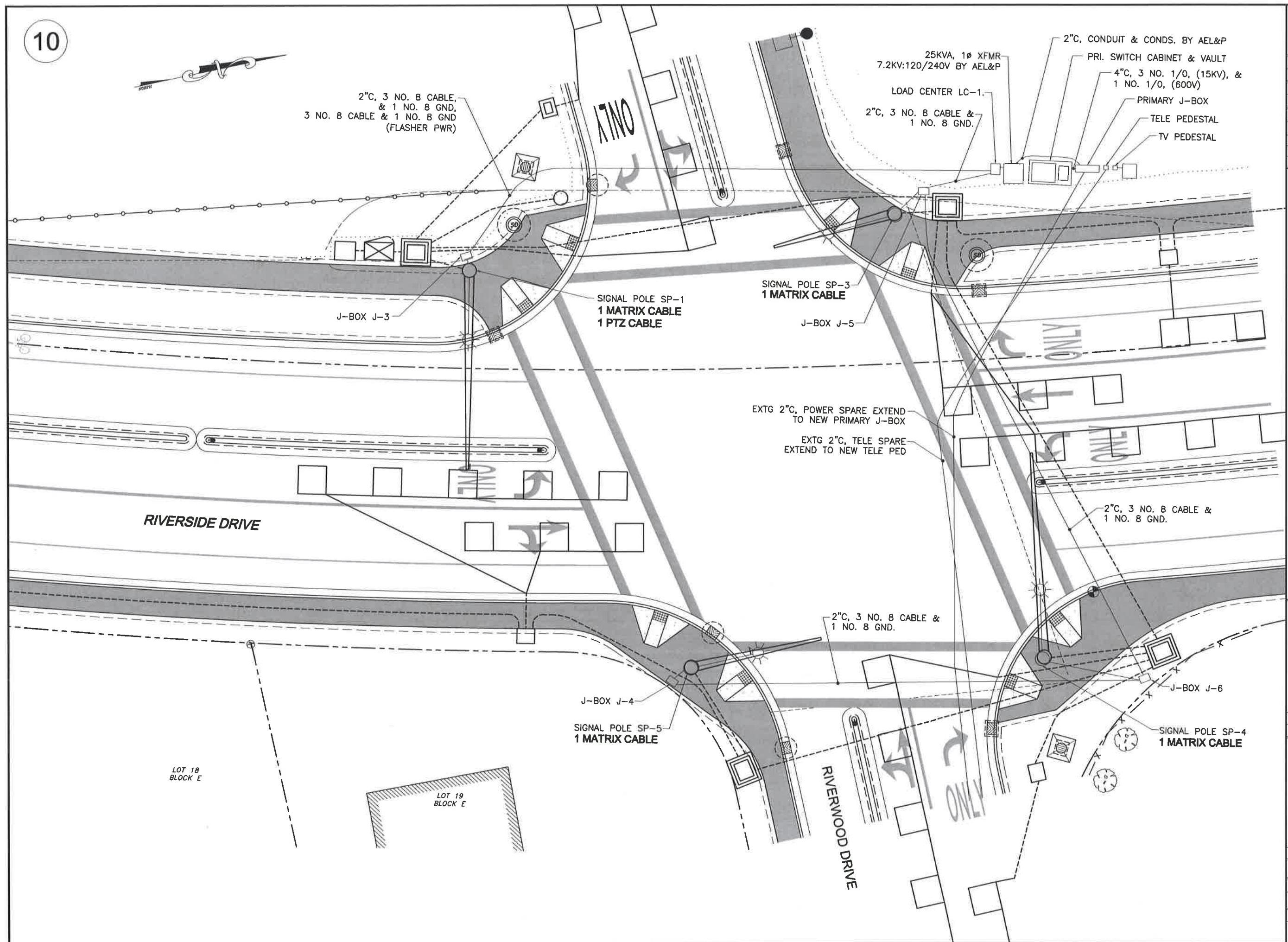
MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 10
RIVERSIDE AND RIVERWOOD



DESIGNED BY: D. EPSTEIN	
DRAWN BY: D. STEVENS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
SIGNAL NO. 10 RIVERSIDE AND RIVERWOOD	
PROJECT DESIGNATION NUMBER Z685840000 ~ 0003184	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F20	29

10



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Wed, 19/Aug/15 09:05AM
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ATTACHMENT NUMBER

RECORD OF REVISIONS

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MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 10
RIVERSIDE AND RIVERWOOD
WIRING DIAGRAM



DESIGNED BY: D. EPSTEIN

DRAWN BY: D. STEVENS

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SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

SIGNAL NO. 10
RIVERSIDE AND
RIVERWOOD
WIRING DIAGRAM

PROJECT DESIGNATION NUMBER

Z685840000 ~ 0003184

STATE

YEAR

ALASKA

2015

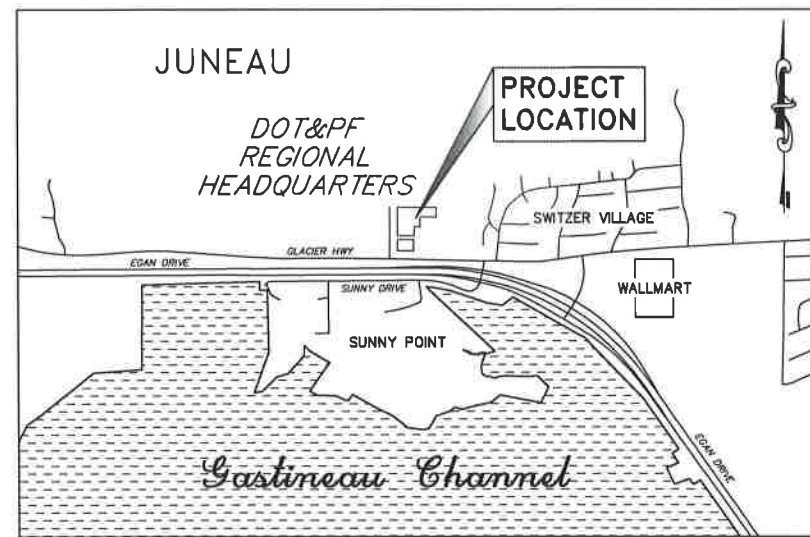
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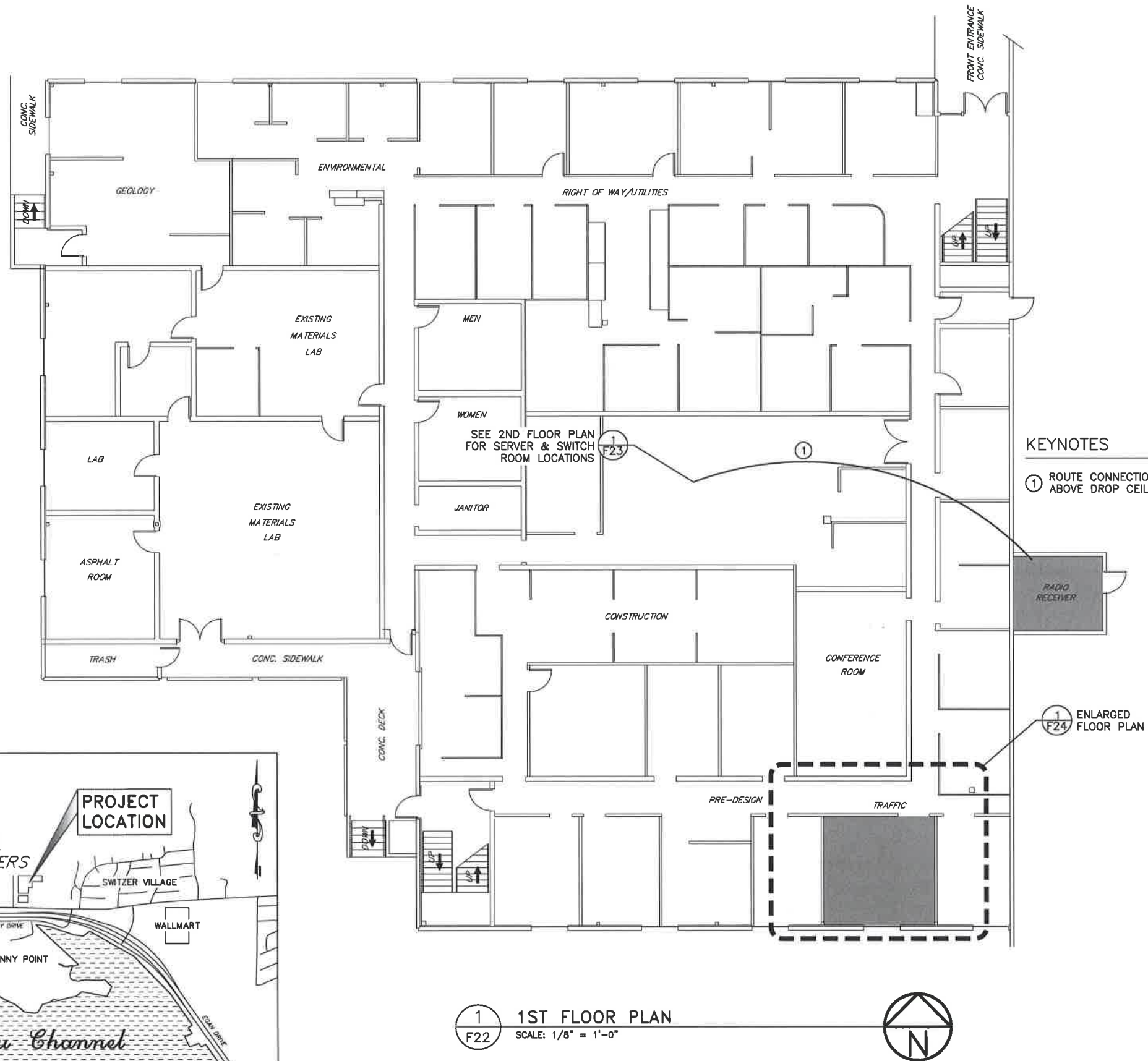
F21

29

PATH: C:\PROJECTS\DOTPF\390_SE Traffic Command Center\DWGS\C\Sheets\F22.dwg



VICINITY MAP



1 1ST FLOOR PLAN
F22 SCALE: 1/8" = 1'-0"

KEYNOTES

1 ROUTE CONNECTION FROM RADIO RECEIVER TO SWITCH RACK ABOVE DROP CEILING, 1-CAT 6.

1 F24 ENLARGED FLOOR PLAN

Mon, 17/Aug/15 10:48AM
PLOT:
PSPACE 1=1 (F) OR MSPACE 1=1 (F)
TAB: TYPICALS

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ATTACHMENT NUMBER

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No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
0003184 ~ Z685840000
SOUTHCOST REGION HEADQUARTERS - 1ST FLOOR PLAN



DEVELOPED BY: KINNEY ENGINEERING, LLC

DESIGNED BY: W. WEBB

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION

MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

SOUTHCOST REGION
TRAFFIC COMMAND CENTER

PROJECT DESIGNATION NUMBER

0003184~Z685840000

STATE YEAR

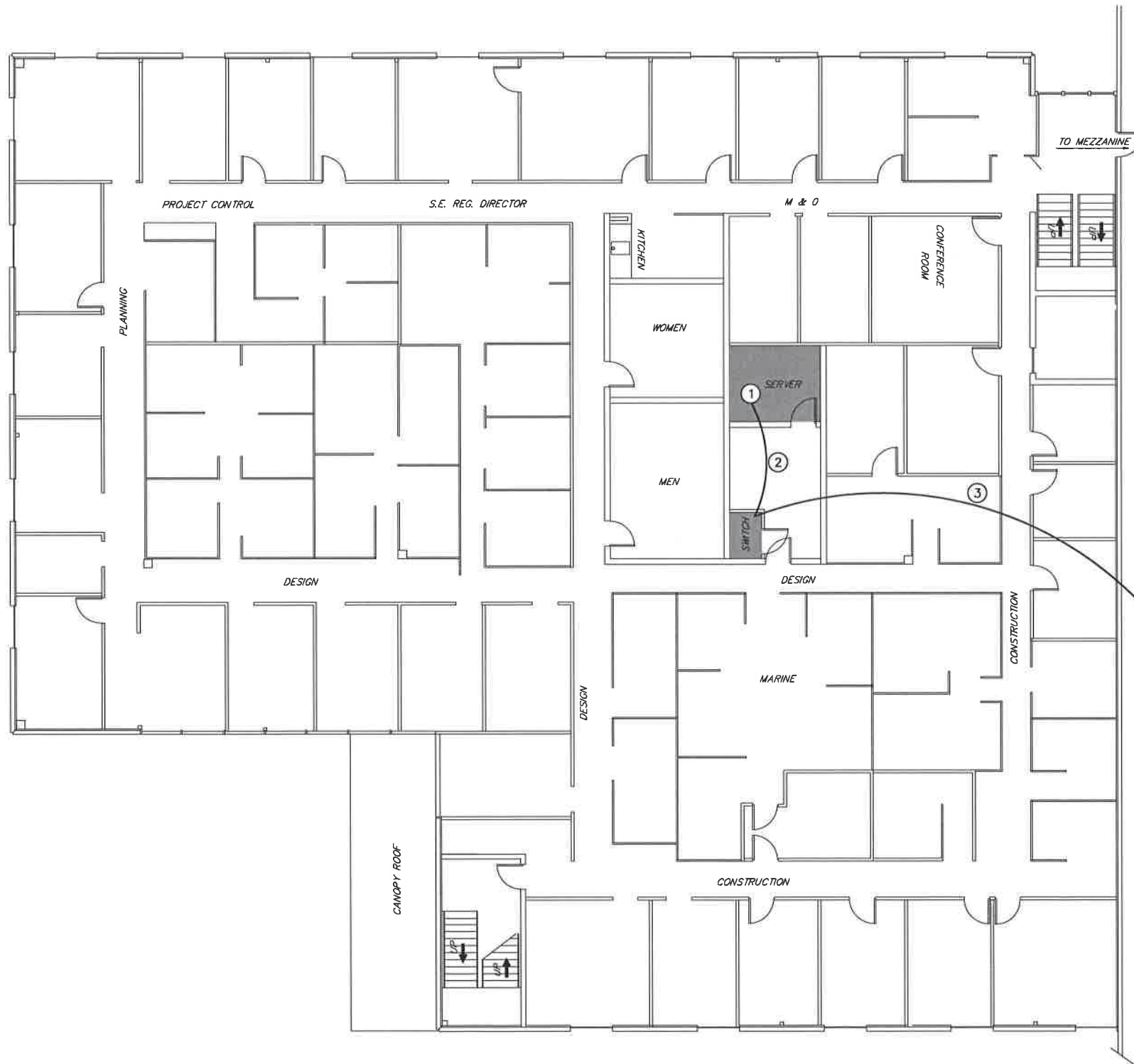
ALASKA 2015

SHEET NUMBER TOTAL SHEETS

F22 29

SOUTHCOST REGION HEADQUARTERS - 1ST FLOOR PLAN

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1 2ND FLOORPLAN
F23 SCALE: 1/8" = 1'-0"



KEYNOTES

- 1 INSTALL NEW SERVER IN EXISTING RACK
 - 2 ROUTE CONNECTION FROM SERVER TO SWITCH PANEL, 2--CAT6.
 - 3 ROUTE CONNECTION FROM RADIO RECEIVER TO SERVER ABOVE DROP CEILING
- 1 F22 SEE 1ST FLOOR PLAN FOR RADIO RECEIVER ROOM LOCATION

Mon, 17/Aug/15 10:46AM
PLOT:
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TAB: TYPICALS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
0003184 ~ Z685840000
SOUTHCOST REGION HEADQUARTERS - 2ND FLOOR PLAN



DEVELOPED BY: KINNEY ENGINEERING, LLC

DESIGNED BY: W. WEBB

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION

MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

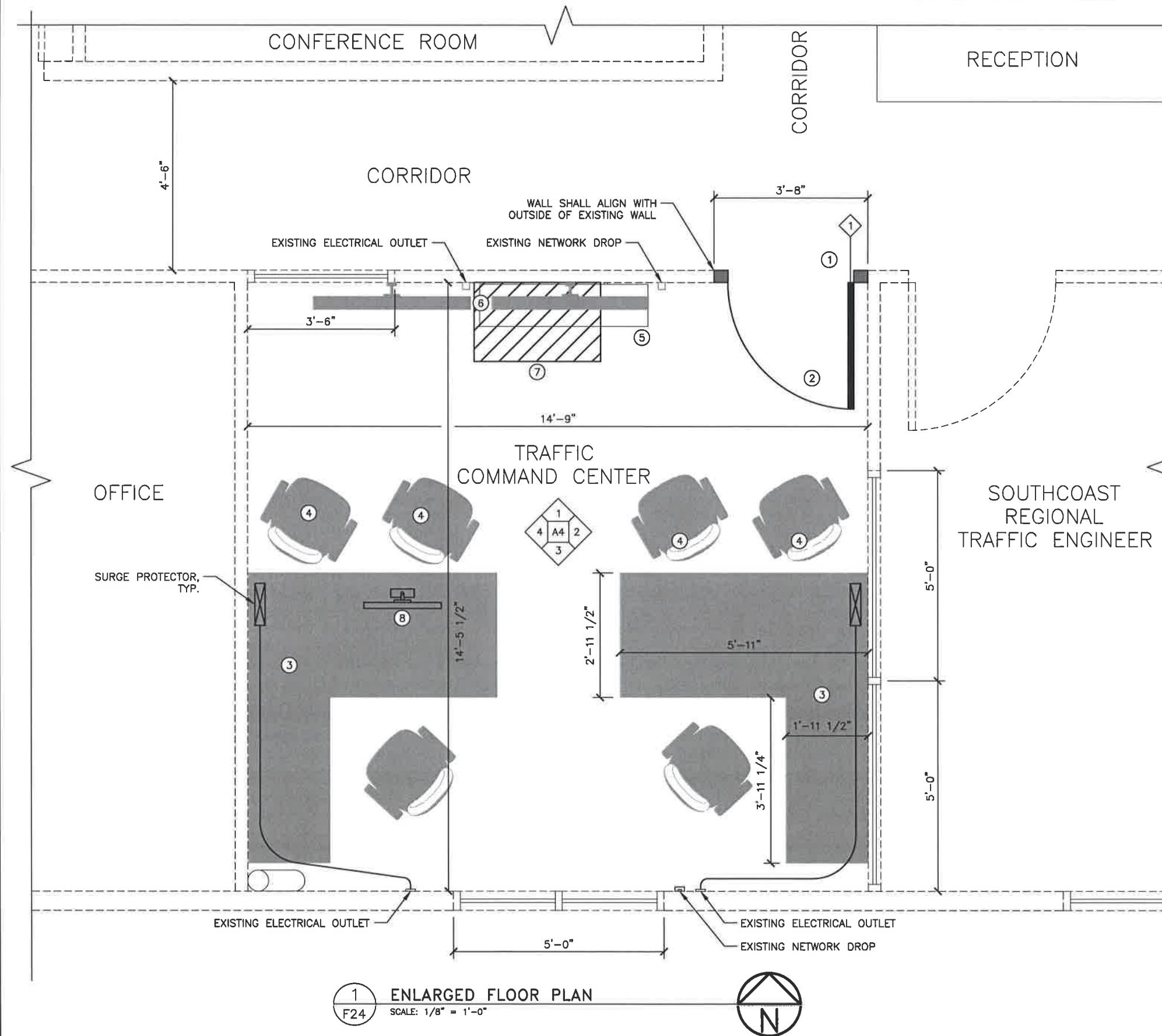
SOUTHCOST REGION
TRAFFIC COMMAND CENTER

PROJECT DESIGNATION NUMBER

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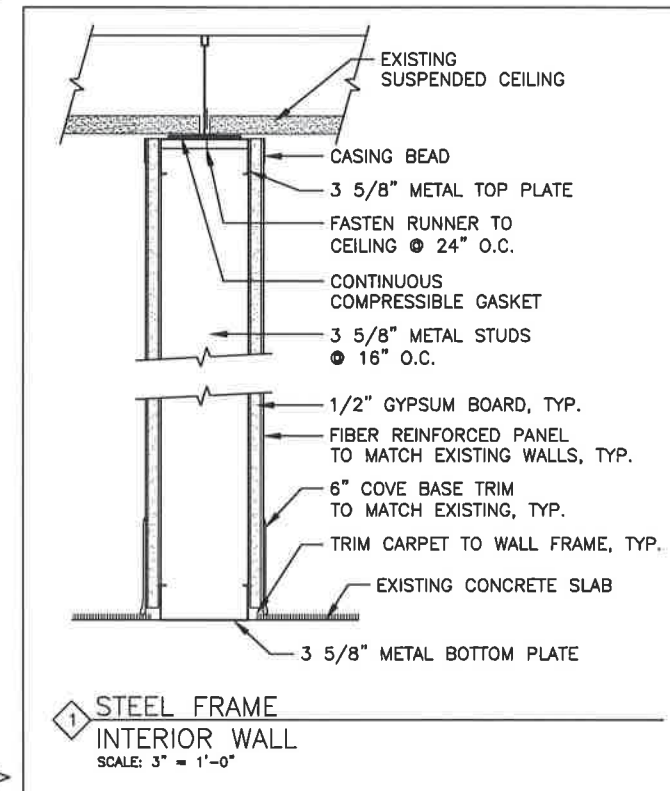
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F23	29

PATH: C:\PROJECTS\DOT\F390_se traffic command center\DWGS\C\Sheets\F24.dwg



1 ENLARGED FLOOR PLAN
F24 SCALE: 1/8" = 1'-0"

ENLARGED FLOOR PLAN



KEYNOTES

- 1 NEW WALL AND HEADER
- 2 NEW DOOR (SEE SCHEDULE ON SHEET F25)
- 3 NEW DESK
- 4 NEW CHAIR
- 5 REMOVE EXISTING WALL MOUNTED SHELVING
- 6 NEW 55" MONITORS
- 7 NEW CABINET HOUSING TCC WORKSTATION
- 8 TCC WORKSTATION MONITOR

NOTES:

1. PROVIDE SURGE PROTECTORS UNDER EACH DESK AND MOUNTED ON THE INSIDE OF THE NEW CABINET. CORD LENGTHS TO BE: 2 AT 12' AND 1 AT 6'.
2. PROVIDE CAT 6 PATCH CABLES FOR EACH DESK AND FOR NEW CABINET. CORD LENGTHS TO BE: 2 AT 16' AND 1 AT 6'.
3. PROVIDE 26' CABLE FOR TCC WORKSTATION MONITOR.
4. CONTRACTOR TO VERIFY ALL CORD LENGTHS PRIOR TO PURCHASING.
5. DESK DIMENSIONS ARE TYPICAL AND APPROXIMATE.
6. EXISTING DUAL MONITOR COMPUTER WORKSTATIONS TO BE INSTALLED ON DESKS BY DOT STAFF.

Mon, 17/Aug/15 10:53AM
PLOT:
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TAB: TYPICALS

ADDENDUM NUMBER		
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RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
0003184 ~ Z685840000
ENLARGED FLOOR PLAN

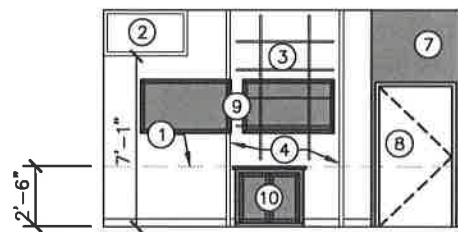


DEVELOPED BY: KINNEY ENGINEERING, LLC
DESIGNED BY: W. WEBB
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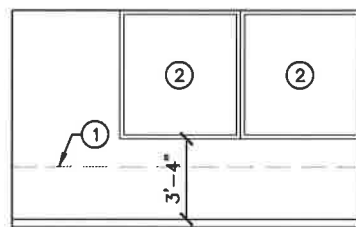
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION
MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM
SOUTHCOST REGION
TRAFFIC COMMAND CENTER

PROJECT DESIGNATION NUMBER	
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F24	29

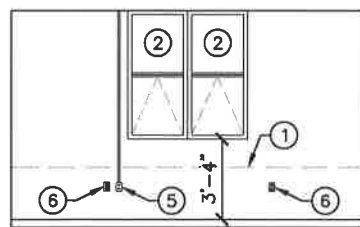
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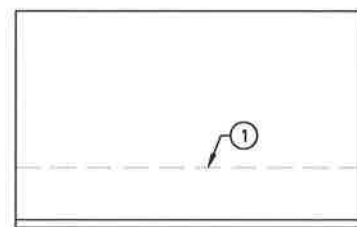
1 NORTH ELEVATION
F25 SCALE: 1/4" = 1'-0"



2 EAST ELEVATION
F25 SCALE: 1/4" = 1'-0"



3 SOUTH ELEVATION
F25 SCALE: 1/4" = 1'-0"



4 WEST ELEVATION
F25 SCALE: 1/4" = 1'-0"

KEYNOTES

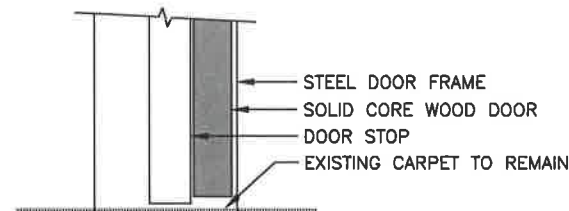
- 1 DESKTOP ELEVATION
- 2 EXISTING WINDOW
- 3 REMOVE EXISTING WALL MOUNTED SHELVING
- 4 EXISTING NETWORK AND ELECTRICAL DROP
- 5 EXISTING NETWORK DROP
- 6 EXISTING ELECTRICAL OUTLET
- 7 NEW WALL AND HEADER
- 8 NEW DOOR (SEE SCHEDULE, THIS SHEET)
- 9 NEW 55" MONITORS
- 10 NEW CABINET HOUSING TCC WORKSTATION

DOOR & FRAME SCHEDULE

DOOR NO.	DOOR SIZE	DOOR MATL.	DOOR FINISH	FRAME MATL.	FRAME FINISH	HDWRE	REMARKS
1	3'0" X 7'0" X 1-3/4"	SCW	PT	HM	PT	1	INSTALL PER MANUFACTURER'S RECOMMENDATIONS

ABBREVIATIONS

HM =HOLLOW METAL SCW = SOLID CORE WOOD
PT =PAINT



5 DOOR THRESHOLD
F25 SCALE: 3" = 1'-0"

2 @ 3 5/8" METAL STUDS,
BACK TO BACK,
TYP. BOTH SIDES

EXISTING WALL

CORRIDOR

SOLID CORE WOOD DOOR

DOOR STOP

STEEL DOOR FRAME

STEEL FRAME INTERIOR WALL,
SEE 1 ON SHEET F24

2 FASTENERS @ 12" O.C.
FOR HEIGHT OF WALL,
TYP. BOTH SIDES

EXISTING WALL

TRAFFIC
COMMAND CENTER

SOUTHCOST
REGIONAL
TRAFFIC ENGINEER

6 DOOR JAMB
F25 SCALE: 3" = 1'-0"

INTERIOR ELEVATIONS

Mon, 17/Aug/15 10:54AM
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MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
0003184 ~ Z685840000
INTERIOR ELEVATIONS



DEVELOPED BY: KINNEY ENGINEERING, LLC

DESIGNED BY: W. WEBB

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOST REGION

MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

SOUTHCOST REGION
TRAFFIC COMMAND CENTER

PROJECT DESIGNATION NUMBER

0003184~Z685840000

STATE YEAR

ALASKA 2015

SHEET NUMBER TOTAL SHEETS

F25 29

TRAFFIC CONTROL NOTES:

- 1. A MINIMUM OF ONE 10 FOOT LANE SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS.
- 2. TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORK HOURS.
- 3. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
- 4. THE LENGTH OF WORK AREA SHALL BE MINIMIZED TO AVOID EXCESSIVE TRAFFIC DELAYS AS DIRECTED BY THE ENGINEER.
- 5. WORK SHALL BE DONE BETWEEN 9:00 PM AND 5:00AM.
- 6. WHEN WORKING ON EGAN DRIVE SHOULDERS, THE CONTRACTOR SHALL CLOSE THE RIGHT LANE.
- 7. TRAFFIC CONTROL PLANS SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. WHERE APPROPRIATE, THEY SHALL INCORPORATE APPLICABLE PORTIONS OF DETAILS ON THESE SHEETS. TRAFFIC CONTROL SHALL CONFORM TO THE ALASKA TRAFFIC MANUAL. WORK ON A SIGNAL SHALL NOT BEGIN UNTIL THE TCP IS APPROVED.
- 8. THE CONTRACTOR MAY NOT WORK ON BOTH CARRIAGEWAYS OF EGAN DRIVE AT THE SAME TIME.
- 9. ACTIVE TRAFFIC LANE (S) SHALL BE CLOSED WHEN WORK IS BEING PERFORMED ABOVE THEM.
- 10. NO FLAGGERS ARE ALLOWED ON EGAN DRIVE/GLACIER HIGHWAY.
- 11. 72 HOURS PRIOR TO PERFORMING ANY WORK THAT REQUIRES SHUTTING OFF SIGNALS AND/OR COVERING SIGNAL HEADS, THE CONTRACTOR SHALL NOTIFY THE SOUTHCOAST REGION TRAFFIC AND SAFETY SECTION (JOSH MAHLE, 465-8945) .

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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
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MENDENHALL VALLEY ADAPTIVE
TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

TRAFFIC CONTROL NOTES



DESIGNED BY: D. EPSTEIN	
DRAWN BY: D. STEVENS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOAST REGION MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
TRAFFIC CONTROL NOTES	
PROJECT DESIGNATION NUMBER	
Z685840000 ~ 0003184	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
S1	29