# STATE OF ALASKA

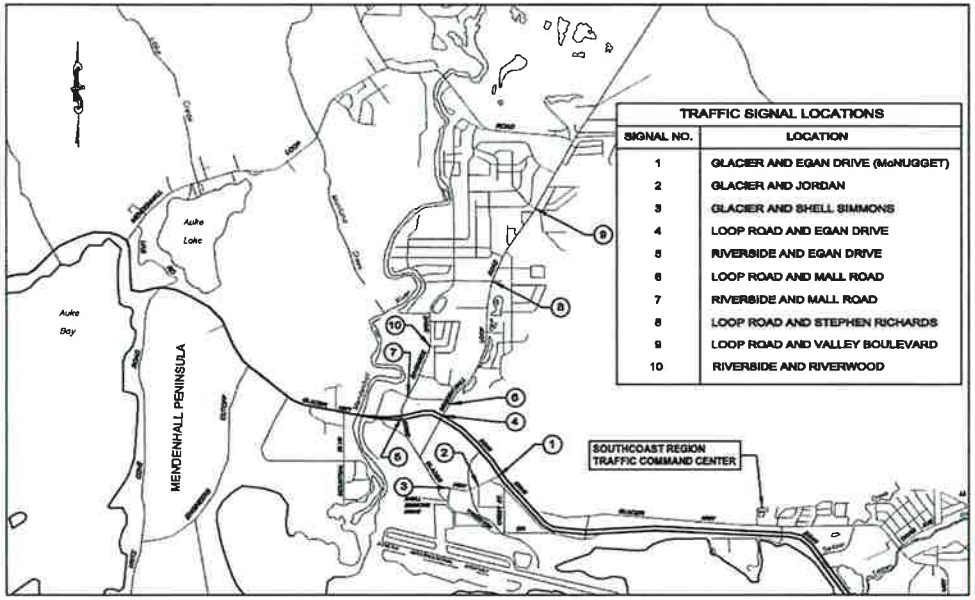
## DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
## SOUTHCOAST REGION

# JUNEAU, ALASKA

## JNU: MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
## PROJECT NO. Z685840000 ~ 0003184

The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.


SOUTHEAST ALASKA




| 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

As-Built

Contractor: Ever Electric

PE: Micheal Hills

Begin Date: 7-8-2016

End Date: 1-16-2017

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

T-30.11

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

## INDEX

| SHEET NO. | DESCRIPTION |
|---|---|
| A1 | TITLE SHEET |
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| 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 |
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| F22-F25 | SOUTHCOAST REGION OFFICE PLAN SHEET |
| S1 | TRAFFIC CONTROL NOTES |

PATH: Q:\Jnu\68584\Planset\68584_A1_Title Sheet.dwg

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

STATE OF ALASKA — DAVID W. GIBSON — CE-9999 — REGISTERED PROFESSIONAL ENGINEER — 8-19-15

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

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

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 |
|---|---|---|
| BLM MONUMENT | ✠ | |
| GLO MONUMENT | ✠ | |
| USC&GS MONUMENT | ▲ | |
| PRIMARY MONUMENT | ✠ | ✠ |
| CENTERLINE MONUMENT IN CASING | ⊕ | ⊕ |
| PRIMARY R.O.W. MONUMENT | ⊕ | ◕ |
| BEARING OBJECT | ✳ | |
| MISCELLANEOUS MONUMENT | ⊗ | |
| LINE OF SIGHT MONUMENT | | ⊕ |
| CONCRETE R.O.W. MONUMENT | ■ | |
| BENCHMARK | | BM |
| REBAR AND CAP | ⊙ | ⊙ |
| REBAR | ● | ● |
| IRON PIPE | ● | |
| PK NAIL | | ▽ |
| SPIKE | | × |
| HUB AND TACK | | ⊡ |
| CONSTRUCTION CENTERLINE | 5+00 | |
| MICELLANEOUS CENTERLINE | 10+00 | |
| STATION EQUATION | "L"48+97.23 POT BK= "O"48+97.23 PC AHD | |
| PROJECT RIGHT-OF-WAY LINE | R/W | |
| EXISTING RIGHT-OF-WAY LINE | | |
| EXISTING PROPERTY LINE | | |
| CONTROLLED ACCESS LINE | C/A | |
| 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 | T. 2 N. / T. 1 N. — T.1 E. / T.2 E. | |
| MEANDER LINE | | |

| | EXISTING | PROPOSED |
|---|---|---|
| SANITARY SEWER (FLOW DIRECTION →) | | |
| FUEL LINE | | |
| GAS LINE | | |
| WATER LINE | | |
| METER, VALVE, FIRE HYDRANT | | |
| EXISTING STORM DRAIN (FLOW DIRECTION →) | | |
| PROPOSED STORM DRAIN | | S-10, S-11, SD, P-11, P-10 |
| FIBER OPTIC LINE | | |
| DIRECT BURIAL TELEPHONE CABLE | | |
| DIRECT BURIAL ELECTRIC CABLE | | |
| ELECTRIC LINE (OVERHEAD) | | |
| POWER POLE LINE | | |
| JOINT USE POWER & TELEPHONE | | |
| TELEPHONE POLE LINE | | |
| POLE ANCHOR | | |
| STUB POLE (POWER OR TELEPHONE) | | |
| TELEPHONE DUCT | | |
| TELEPHONE PEDESTAL | | |
| BURIED CABLE MARKER | | |
| PIPELINE MARKER OR VALVE | | |
| CATCH BASIN OR DROP INLET | | |
| MANHOLE | MH | MH |
| SANITARY SEWER CLEAN OUT | SC | SC |

| | EXISTING | PROPOSED |
|---|---|---|
| ROADWAY/PAVEMENT EDGE | | |
| FENCE | | |
| CURB AND GUTTER | | |
| DETECTABLE WARNINGS | | |
| GUARDRAIL | | |
| CULVERT PIPE | | |
| SIGN | | |
| MAILBOX | MB | MB |
| RAILROAD TRACKS | | |
| RAILROAD DEVICES | CROSS-BUCK, FLASHING LIGHT, CANTILEVER, SWITCH | |
| TREE LINE | | |
| WATER BOUNDARY | | |
| ORDINARY HIGH WATER LINE | | |
| FLOW CENTERLINE | | |
| FLOW DIRECTION | | |
| WETLANDS | | |
| EXISTING BUILDINGS | H<br>H = HOUSE<br>G = GARAGE<br>M = MERCHANT/STORE<br>B = BARN<br>S = SHED<br>P = PRIVY<br>SS= SERVICE STATION<br>W = WAREHOUSE | |
| POST OR BOLLARD | | |
| WELL OR MONITORING WELL | W | |
| SEPTIC PIPE | | |
| FUEL TANK FILL PIPE/VENT | | |
| SATELLITE DISH | SAT. DISH | |
| TEST HOLE | TH | |
| CONIFER TREE | | |
| DECIDUOUS TREE | | |
| GRAVE | | |
| THERMOSIPHON | | |
| PARKING METER | | |
| VEHICLE PLUG-IN | | |
| DELINEATOR/GUIDE MARKER | | |

| | EXISTING | PROPOSED |
|---|---|---|
| JUNCTION BOX, TYPE IA | | 5 |
| JUNCTION BOX, TYPE II | | 6 |
| JUNCTION BOX, TYPE III | | 3 |
| SIGNAL FACE, VEHICULAR | 42 | 42 |
| SIGNAL FACE, BACKPLATE | 42 | 42 |
| SIGNAL FACE, LEFT TURN, BACKPLATE | 43 | 43 |
| SIGNAL FACE, PEDESTRIAN | 9 | 9 |
| LOOP DETECTOR | 33 | 73 |
| VIDEO DETECTOR | 2 | 2 |
| RADAR DETECTOR | 4 | 4A |
| OPTICOM DETECTOR | 1 | 1 |
| PTZ CAMERA | | |
| PEDESTRIAN PUSH BUTTON | 1 | 1 |
| SIGNAL POST W/O MAST ARM | | 1 |
| SIGNAL POLE W/MAST ARM | | 4 |
| SIGNAL CONTROLLER | | |
| LOAD CENTER | | |
| LUMINAIRE | | N |
| RIGID METAL CONDUIT | | |

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MwH Date 5.9.17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY D. EPETEIN

DESIGNED BY J. MAHLE

DRAWN BY D.STEVENS

PATH: G:\JNU\685840\PLANSET\685840_A2_LEGEND.DWG

TAB: A2 Monday, August 17, 2015 8:31:51 AM STEVENS, DAVID A (DOT)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

# JNU-MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

## LEGEND

| REVISIONS NO. | DATE | DESCRIPTION | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|---|
| | | | Z685840000-0003184 | 2015 | A2 | 29 |

This page was replaced with a new sheet C1 in Change Order #1.

| ESTIIMATE 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 |

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5-9-17

PATH: O:\Jnu\68584\Planset\68584_01_Sums.dwg
Tue, 18/Aug/15 02:45PM
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

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

STATE OF ALASKA
49TH
David Bruce Epstein
CE-9999
REGISTERED PROFESSIONAL ENGINEER
8.19.15

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 |

New Sheet C1 - Issued in Change Order # 1

| ESTIMATE OF QUANTITIES | | | |
|---|---|---|---|
| ITEM NUMBER | ITEM DESCRIPTION | PAY UNIT | QUANTITY |
| 640(1) | MOBILIZATION AND DEMOBILIZATION | LUMP SUM | ALL REQUIRED |
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| 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 |
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| 660(23) | SIGNAL NO. 10, RIVERSIDE AND RIVERWOOD TRAFFIC SIGNAL MODIFICATION COMPLETE | LUMP SUM | ALL REQUIRED |
| 680(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, 3 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, 4 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, 1 ADVANCE |
| 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, 2 ADVANCE |
| 660(20) | SIGNAL NO. 7, RIVERSIDE AND MALL ROAD TRAFFIC SIGNAL MODIFICATION COMPLETE | 1 R-Y-G, 1 PTZ, 1 ADVANCE (PROVIDED BY DEPARTMENT) |
| 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 |

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MwH Date 5-9-17

PATH: Q:\JnU\68584\Plotset\68584_01_Sums.dwg
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TAB: TYPICAL5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 – 0003184

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

STATE OF ALASKA 49th — Chad Joyce Epstein — CE-9886 — REGISTERED PROFESSIONAL ENGINEER
5/15/16

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

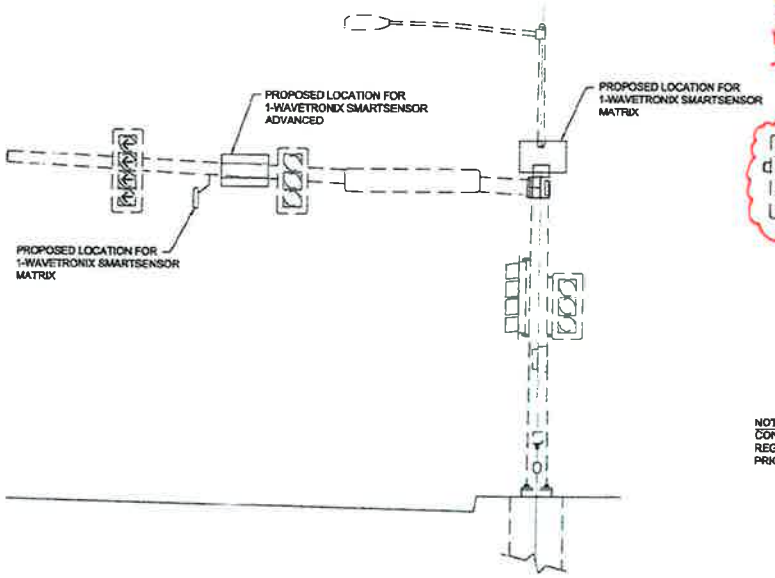
TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

PROJECT DESIGNATION NUMBER
Z685840000 – 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| C1 | 36 |

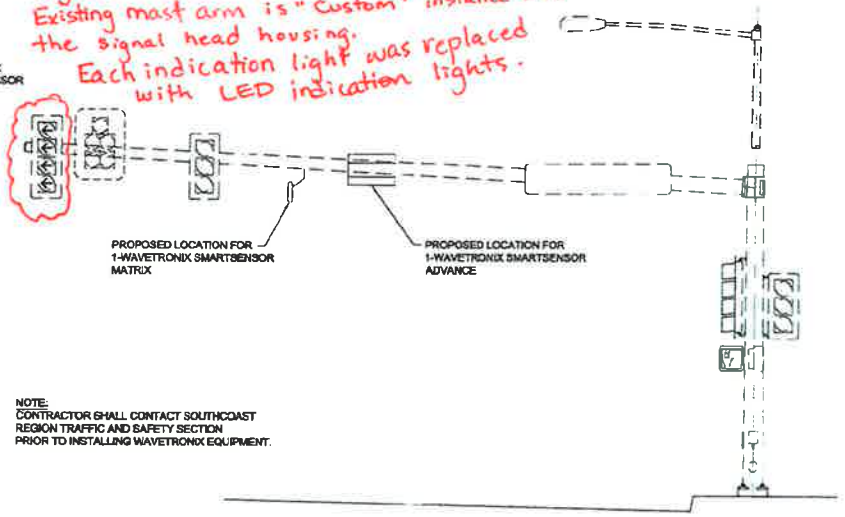
Addendum #1; Attachment #1

1




SIGNAL POLE NO. 3 DETAIL

Signal Head No. 23 could not be replaced. Existing mast arm is "custom" installed into the signal head housing. Each indication light was replaced with LED indication lights.




SIGNAL POLE NO. 2 DETAIL

- Change Order No. 1
  1 additional - Wavetronix Smartsensor Advanced was installed on Signal Pole No. 1
  (see page F1)

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5-9-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY D. EPSTEIN
DESIGNED BY J. MARLE
DRAWN BY D.STEVENS
10.13.15

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTH COAST REGION

JNU-MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

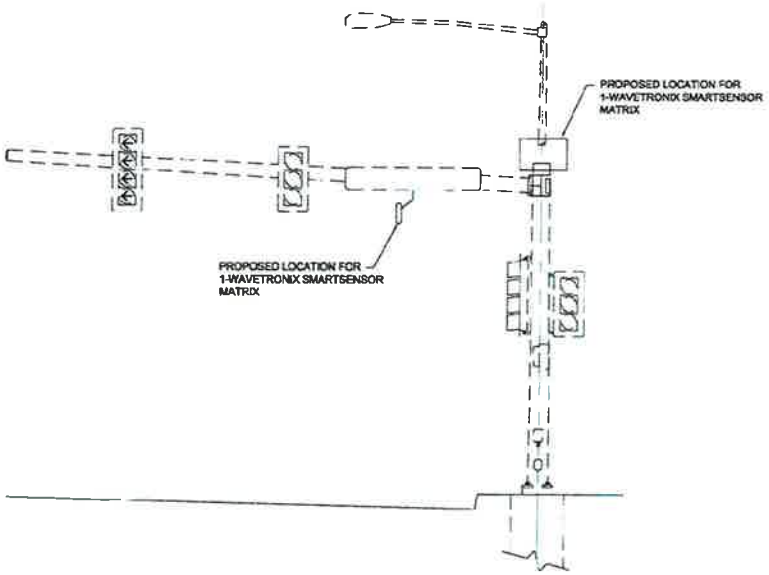
SIGNAL POLE DETAILS
GLACIER AND EGAN DRIVE
(MCNUGGET)

PATH: O:\JNU\68564\PLANSET\68564_E1 SIGNAL POLE DETAILS.DWG
TAB: E1 Monday, October 12, 2015 8:59:47 AM STEVENS, DAVID A (DOT)

| REVISIONS NO | DATE | DESCRIPTION | PROJECT DESIGNATION | YEAR | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|---|---|
| | | | Z685840000-0003184 | 2015 | E1 | 36 |

Addendum #1; Attachment #1

(2)




## SIGNAL POLE NO. 2 DETAIL

NOTE:
CONTRACTOR SHALL CONTACT SOUTHCOAST REGION TRAFFIC AND SAFETY SECTION PRIOR TO INSTALLING WAVETRONIX EQUIPMENT.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5-9-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY D. EPSTEIN

DESIGNED BY J. MAHLE

Drawn BY D.STEVENS

PATH Q:\JNU\685840\PLANSET\685840 E1 SIGNAL POLE DETAILS.DWG

TAB E2 Tuesday, October 13, 2015 1:10:43 PM STEVENS, DAVID A (DOT)

| REVISIONS | | |
|---|---|---|
| NO | DATE | DESCRIPTION |
| | | |

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

10-13-15

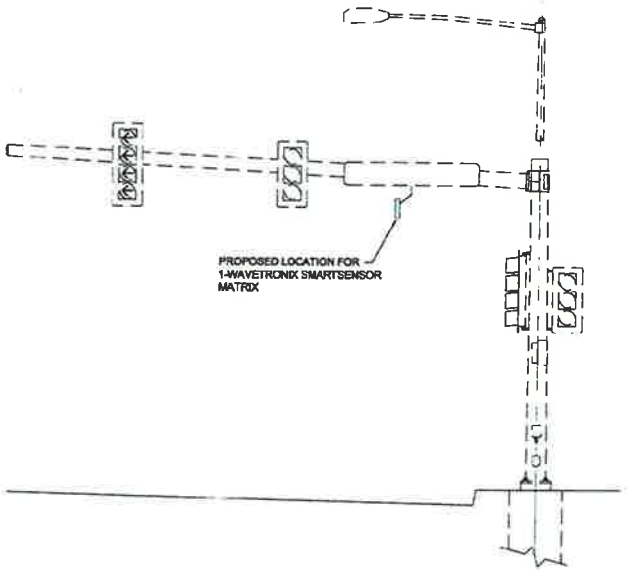
JNU-MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

SIGNAL POLE DETAILS
GLACIER AND JORDAN

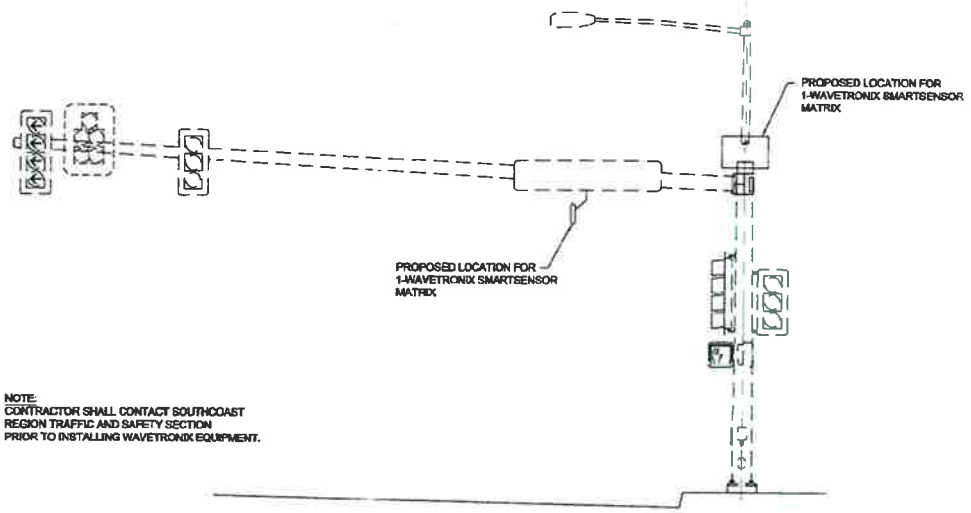
| PROJECT DESIGNATION | YEAR | SHEET NO | TOTAL SHEETS |
|---|---|---|---|
| Z685840000-0003184 | 2015 | E2 | 36 |

Addendum #1; Attachment #1

3




SIGNAL POLE NO. 4 AND NO. 5 DETAIL




SIGNAL POLE NO. 1 DETAIL

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5·9·17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY D. EPSTEIN

DESIGNED BY J. MAHLE

DRAWN BY D.STEVENS

PATH: G:\JNU\SIGNAL\PLANSET\Z685840000_E3 SIGNAL POLE DETAILS.DWG

TAB: E3 Monday, October 12, 2015 8:57:49 AM STEVENS, DAVID A (DOT)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

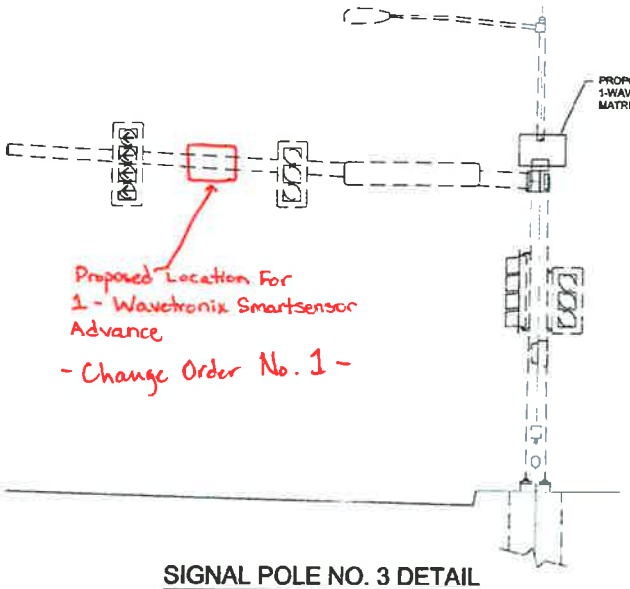
JNU-MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

SIGNAL POLE DETAILS
GLACIER AND SHELL SIMMONS

| REVISIONS NO | DATE | DESCRIPTION | PROJECT DESIGNATION | YEAR | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|---|---|
| | | | Z685840000~0003184 | 2015 | E3 | 36 |

Addendum #1; Attachment #1

4

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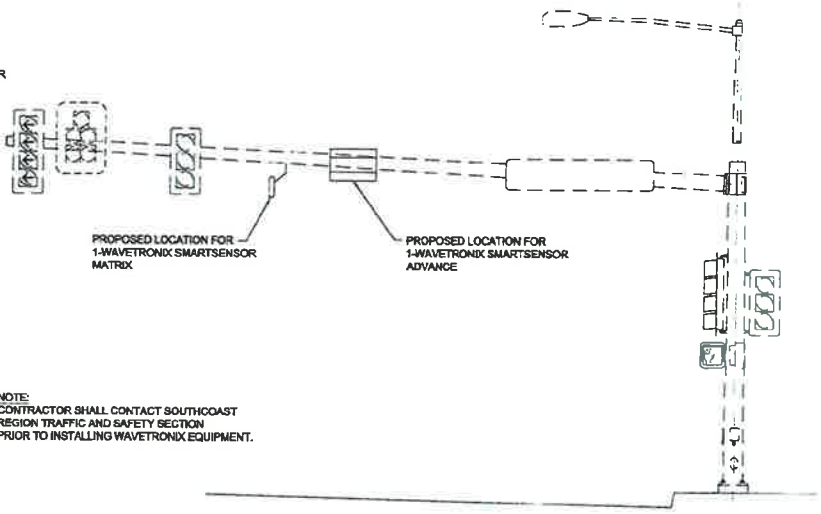
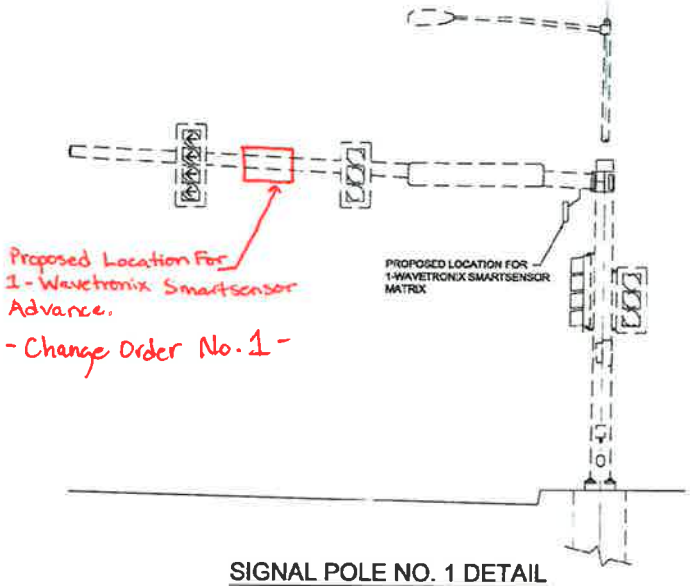



SIGNAL POLE NO. 2 AND NO. 4 DETAIL




SIGNAL POLE NO. 1 DETAIL

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MW Date 5-9-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY J. EPSTEIN

DESIGNED BY J. MAHLE

DRAWN BY O.STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

JNU-MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

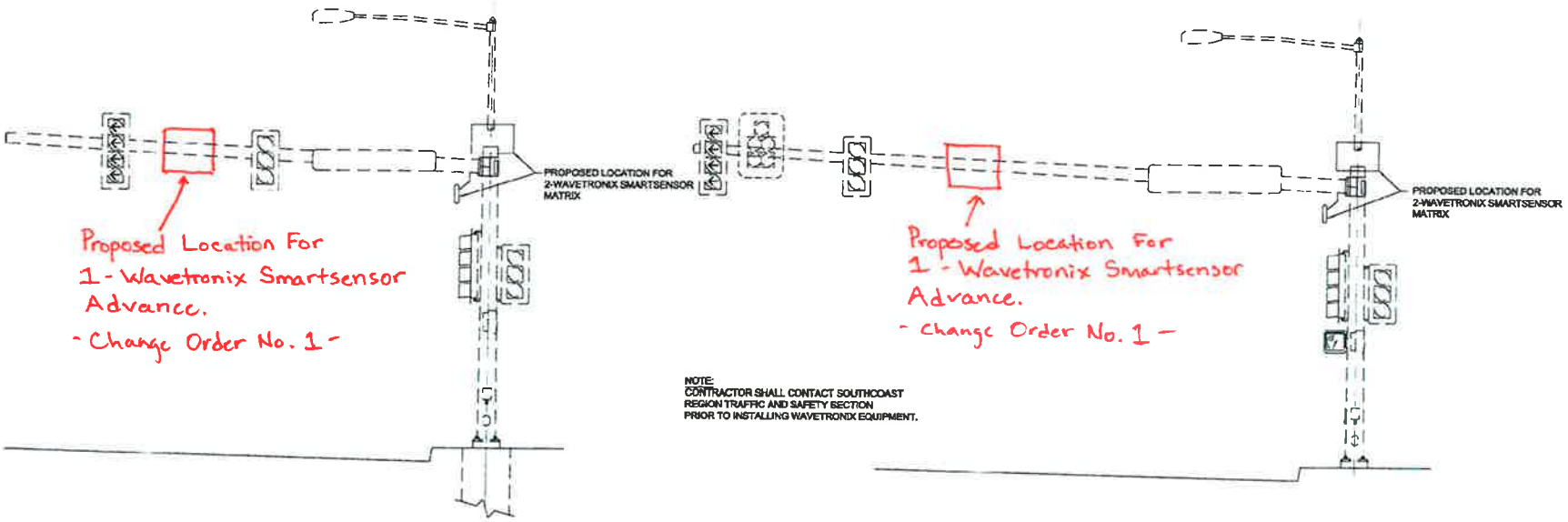
SIGNAL POLE DETAILS
LOOP ROAD AND EGAN DRIVE

PATH: O:\JNU\68584\PLANSET\68584_E1 SIGNAL POLE DETAILS.DWG
TAB: E4 Monday, October 12, 2015 9:07:18 AM STEVENS, DAVID A (DOT)

| NO | REVISIONS DATE | DESCRIPTION | PROJECT DESIGNATION | YEAR | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|---|---|
| | | | Z685840000-0003184 | 2015 | E4 | 36 |

Addendum #1; Attachment #1

6




SIGNAL POLE NO. 4 DETAIL

SIGNAL POLE NO. 2 DETAIL

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MwH Date 5.9.17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY D. EPSTEIN

DESIGNED BY J. MAHLE

DRAWN BY D.STEVENS

PATH G:\JNU\MSM\PLANSET\65584_E1 SIGNAL POLE DETAILS.DWG

TAB: E5 Monday, October 12, 2015 8:58:06 AM STEVENS, DAVID A (DOT)

REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

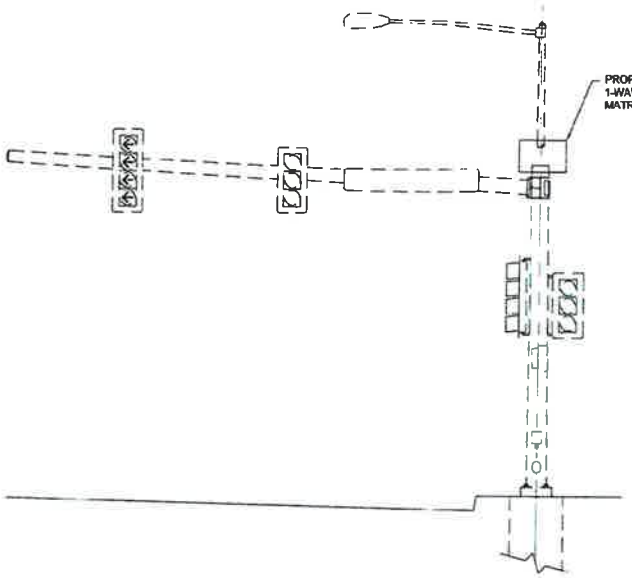
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

JNU-MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

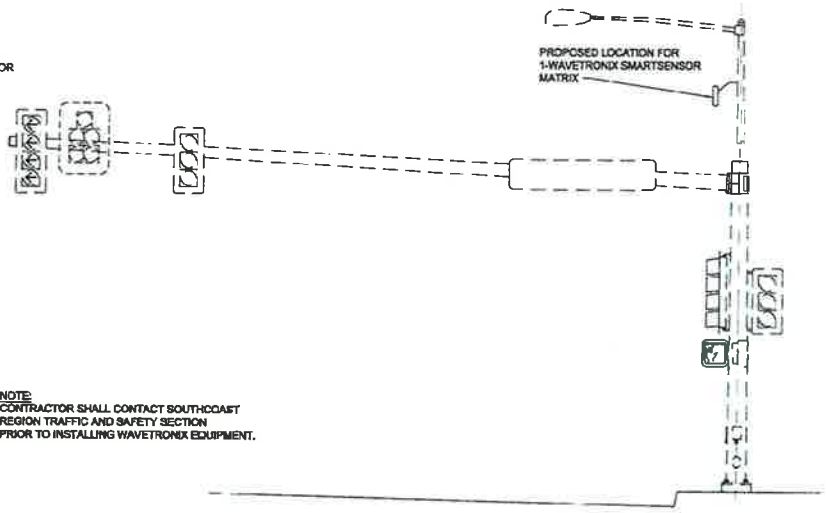
SIGNAL POLE DETAILS LOOP ROAD AND MALL ROAD

| PROJECT DESIGNATION | YEAR | SHEET NO | TOTAL SHEETS |
|---|---|---|---|
| Z685840000~0003184 | 2015 | E5 | 36 |

9




SIGNAL POLE NO. 4 DETAIL




SIGNAL POLE NO. 1, NO. 2, NO. 3 AND NO. 4 DETAIL

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5-9-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY D. EPSTEIN

DESIGNED BY J. MAHLE

DRAWN BY D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

JNU-MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

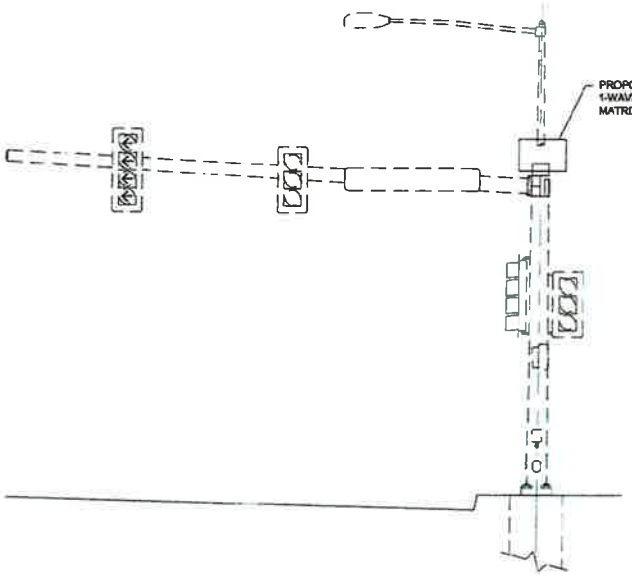
SIGNAL POLE DETAILS
LOOP ROAD AND
VALLEY BOULEVARD

PATH: C:\JNU\8684\PLANSET\8684_E1 SIGNAL POLE DETAILS.DWG
TAB: E6 Monday, October 12, 2015 8:58:11 AM STEVENS, DAVID A (DOT)

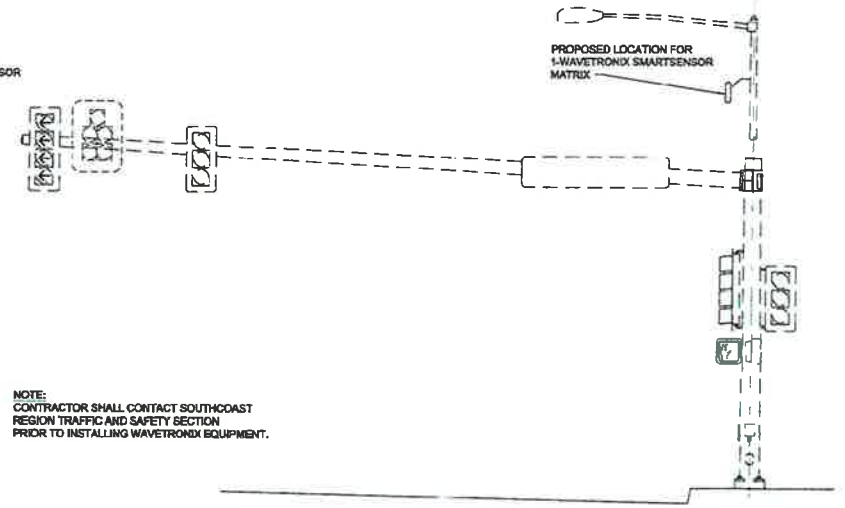
| REVISIONS | | |
|---|---|---|
| NO | DATE | DESCRIPTION |

| PROJECT DESIGNATION | YEAR | SHEET NO | TOTAL SHEETS |
|---|---|---|---|
| Z685840000-0003184 | 2015 | E6 | 36 |

10




SIGNAL POLE NO. 4 DETAIL




NOTE:
CONTRACTOR SHALL CONTACT SOUTHCOAST
REGION TRAFFIC AND SAFETY SECTION
PRIOR TO INSTALLING WAVETRONIX EQUIPMENT.

SIGNAL POLE NO. 2 DETAIL

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MW Date 5-9-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY D. EPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

JNU-MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

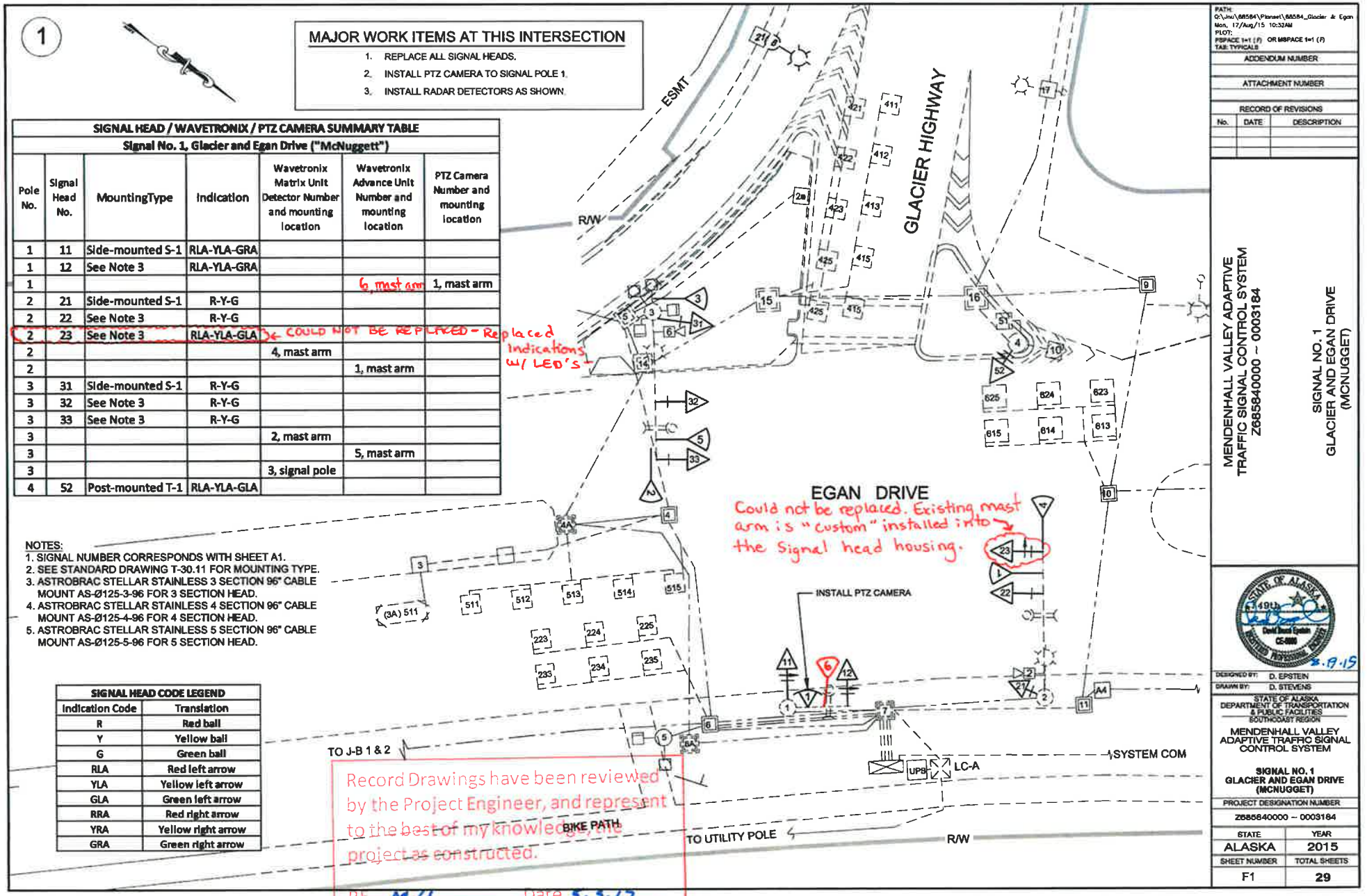
SIGNAL POLE DETAILS
RIVERSIDE AND RIVERWOOD

DESIGNED BY J. MAHLE
DRAWN BY D.STEVENS

PATH: O:\JNU\68584\PLANSET\68584_E1 SIGNAL POLE DETAILS.DWG
TAB: E7 Monday, October 12, 2015 8:58:18 AM STEVENS, DAVID A (DOT)

| NO | DATE | REVISIONS DESCRIPTION |
|---|---|---|
| | | |

| PROJECT DESIGNATION | YEAR | SHEET NO | TOTAL SHEETS |
|---|---|---|---|
| Z685840000-0003184 | 2015 | E7 | 36 |




| SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE<br>Signal No. 1, Glacier and Egan Drive ("McNuggett") | | | | | | |
|---|---|---|---|---|---|---|
| Pole No. | Signal Head No. | MountingType | 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 | | | | | 6, mast arm | 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 | ← COULD NOT BE REPLACED - Replaced Indications w/ LED's | | |
| 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 |

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.5.17

PATH: O:\Jnu\68584\Planset\68584_Glacier & Egan
Mon, 17/Aug/15 10:32AM
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. 1
GLACIER AND EGAN DRIVE
(MCNUGGET)

STATE OF ALASKA
David Bruce Epstein
CE-9999
Registered Professional Engineer
5.9.15

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

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

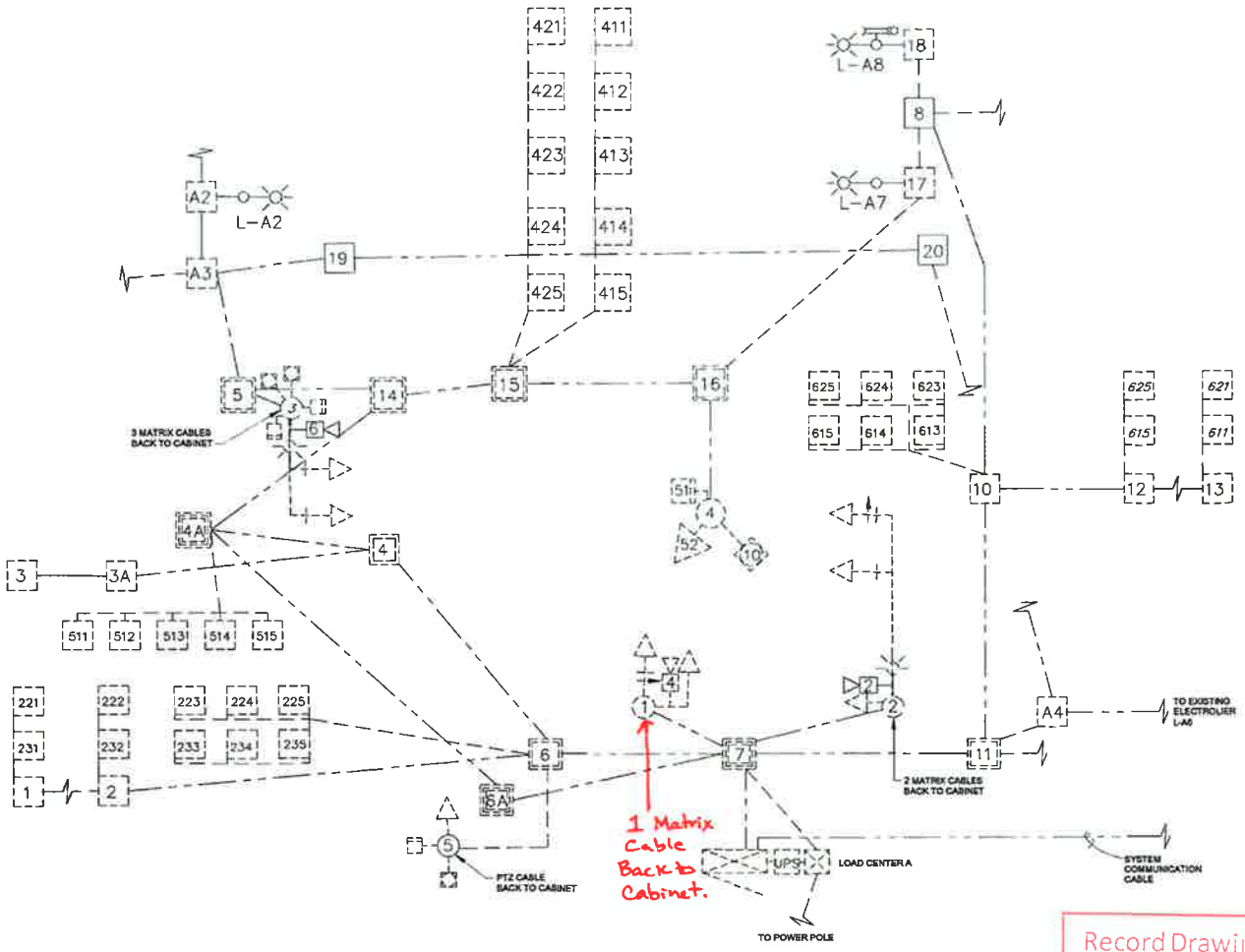
MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

SIGNAL NO. 1
GLACIER AND EGAN DRIVE
(MCNUGGET)

PROJECT DESIGNATION NUMBER
Z685840000 – 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F1 | 29 |

1




Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

PATH: O:\Jobs\58584\Planset\58584_Glacier & Egan
Tue, 18/Aug/15 02:51PM
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PSPACE 1=1 (F) OR MSPACE 1=1 (F)
TAB: TYPICALS

| ADDENDUM NUMBER |
|---|
| |

| ATTACHMENT NUMBER |
|---|
| |

RECORD OF REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
| | | |
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MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
Z885840000 ~ 0003184

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

STATE OF ALASKA 19th David Bruce Epstein CE-6808 REGISTERED PROFESSIONAL ENGINEER
8.19.15

| 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

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

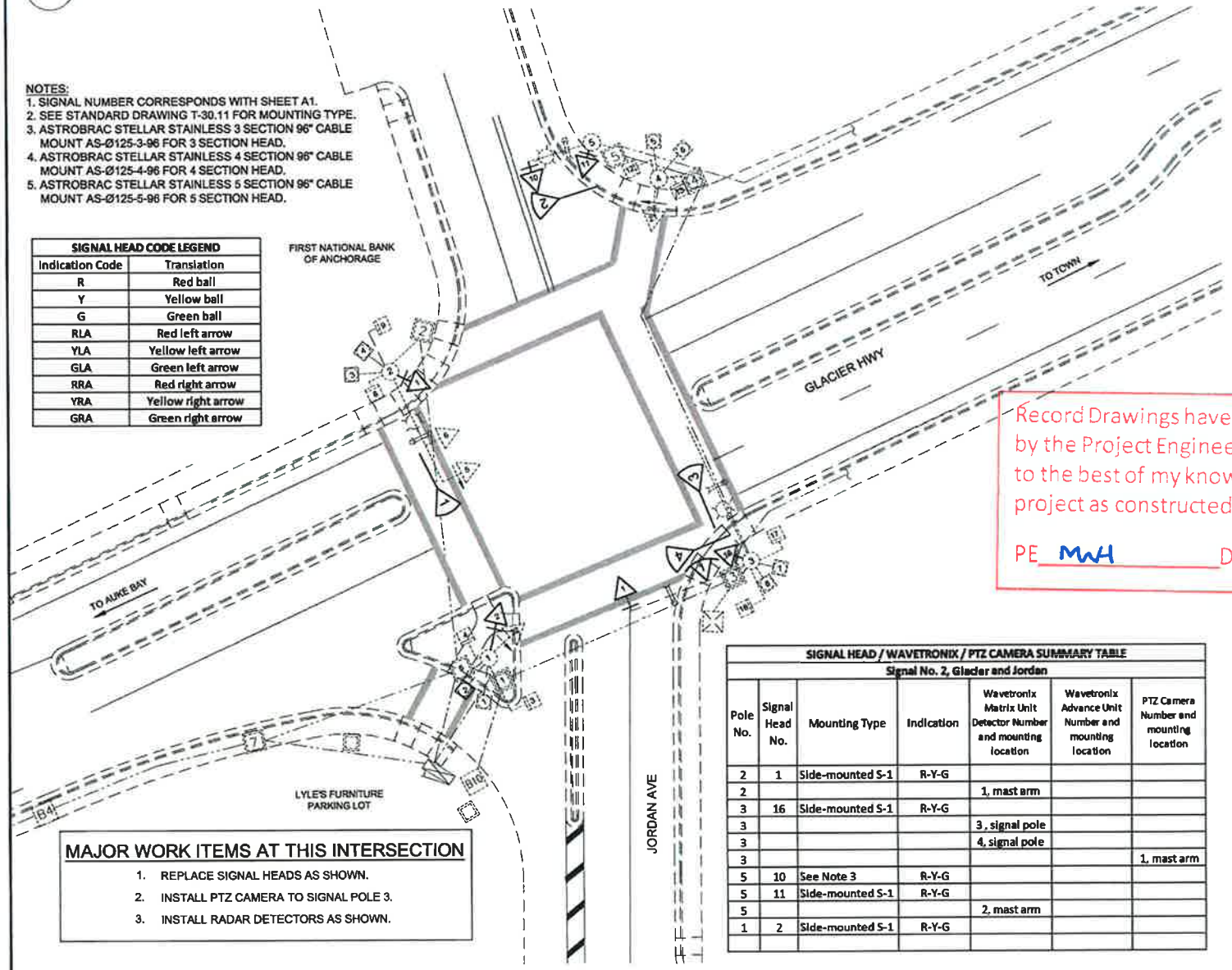
PROJECT DESIGNATION NUMBER
Z885840000 ~ 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F2 | 29 |

2

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 |




Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

| SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE<br>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 | | | |
| | | | | | | |

## 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.

PATH: C:\Jnu\58584\Plotset\58584_Glacier & Jordan
Mon, 17/Aug/15 11:19AM
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. 2
GLACIER AND JORDAN

STATE OF ALASKA — Registered Professional Engineer — CE-9999 — 8-19-15

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

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

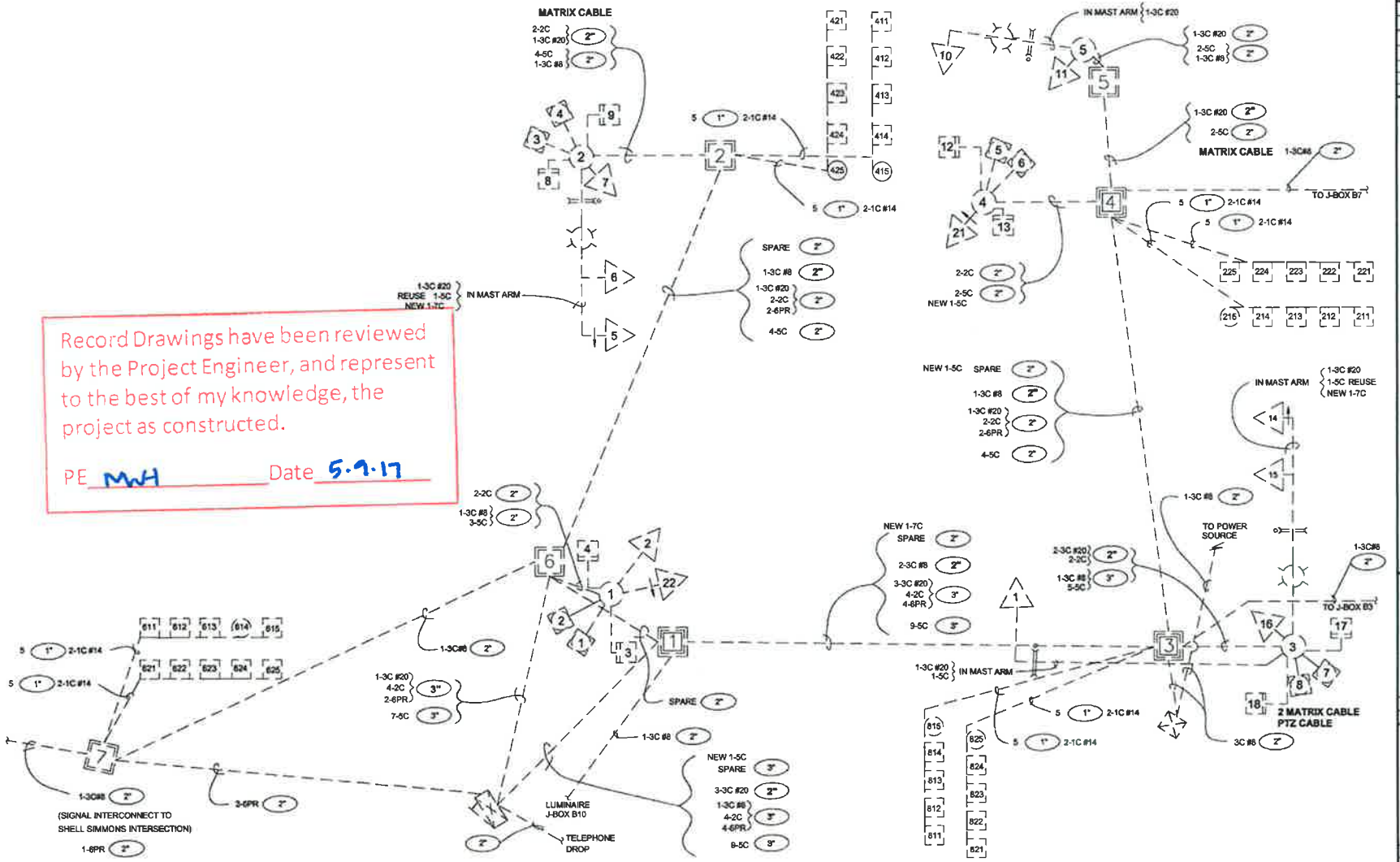
MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

SIGNAL NO. 2
GLACIER AND JORDAN

PROJECT DESIGNATION NUMBER
Z685840000 – 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F3 | 29 |

2




Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

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Tue, 18/Aug/15 02:52PM
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. 2
GLACIER AND JORDAN
WIRING DIAGRAM

STATE OF ALASKA 49th David Bruce Epstein CE-8888 REGISTERED PROFESSIONAL ENGINEER
8-19-15

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

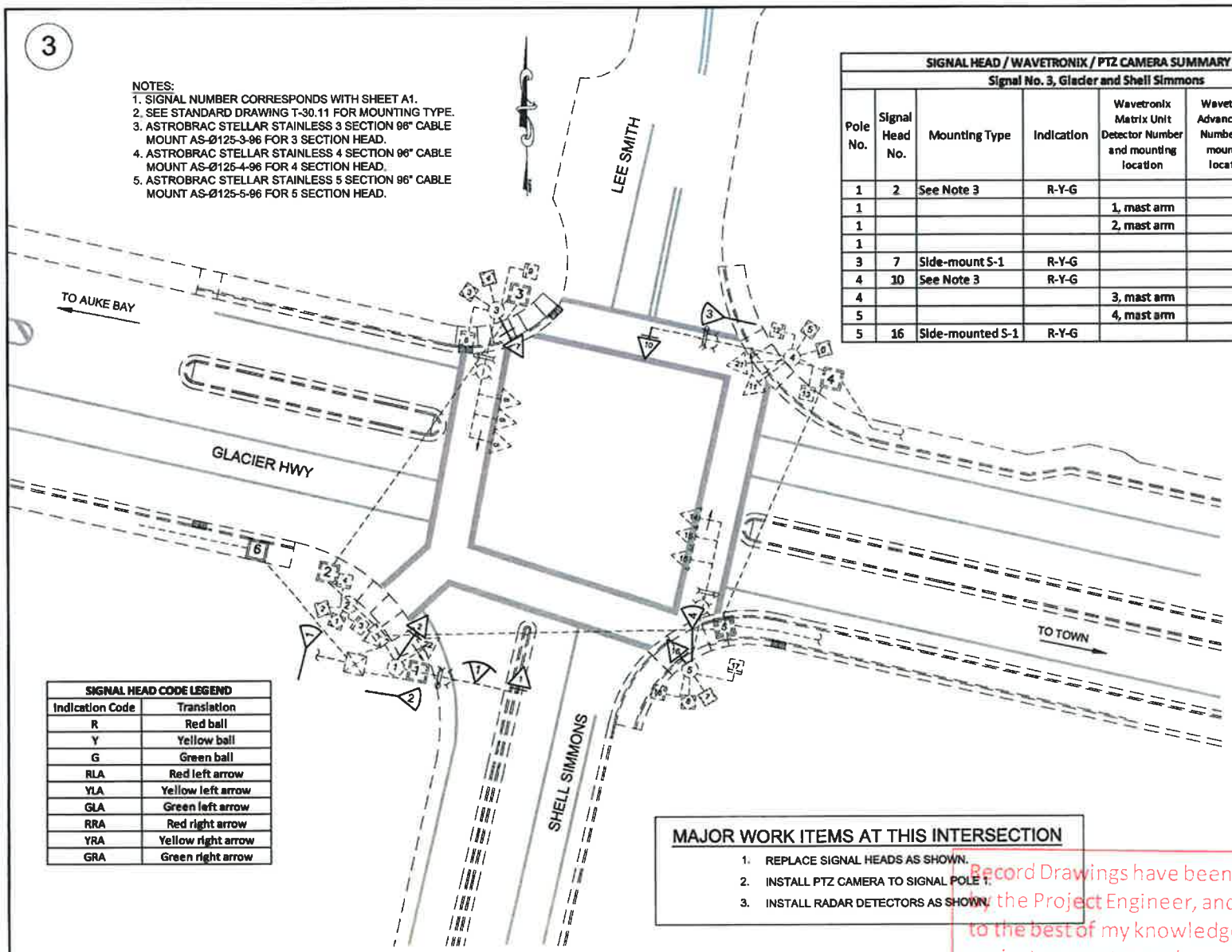
SIGNAL NO. 2
GLACIER AND JORDAN
WIRING DIAGRAM

PROJECT DESIGNATION NUMBER
Z685840000 ~ 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F4 | 29 |

3

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.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MH Date 5.9.17

PATH: O:\Jnu\68564\Pwmark\68564_Glacier & Shell - Mon, 17/Aug/15 11:51AM
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. 3
GLACIER AND SHELL SIMMONS

STATE OF ALASKA 49th
Daniel Bruce Epstein CE-0000
REGISTERED PROFESSIONAL ENGINEER
8.17.15

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

SIGNAL NO. 3
GLACIER AND SHELL SIMMONS

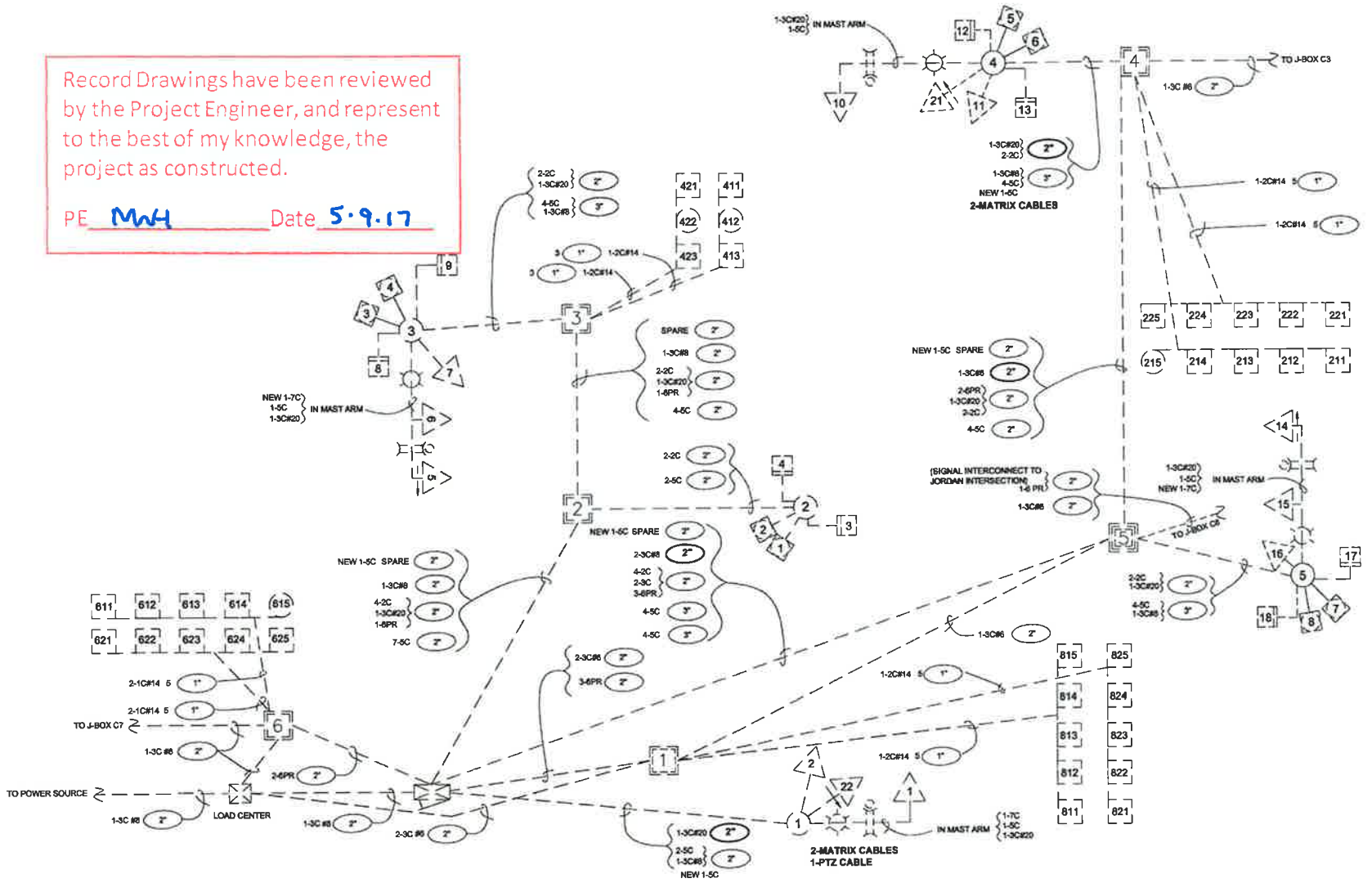
PROJECT DESIGNATION NUMBER
Z685840000 – 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F5 | 29 |

3

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

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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. 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
SOUTHCOAST REGION

MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
SIGNAL NO. 3
GLACIER AND SHELL SIMMONS
WIRING DIAGRAM

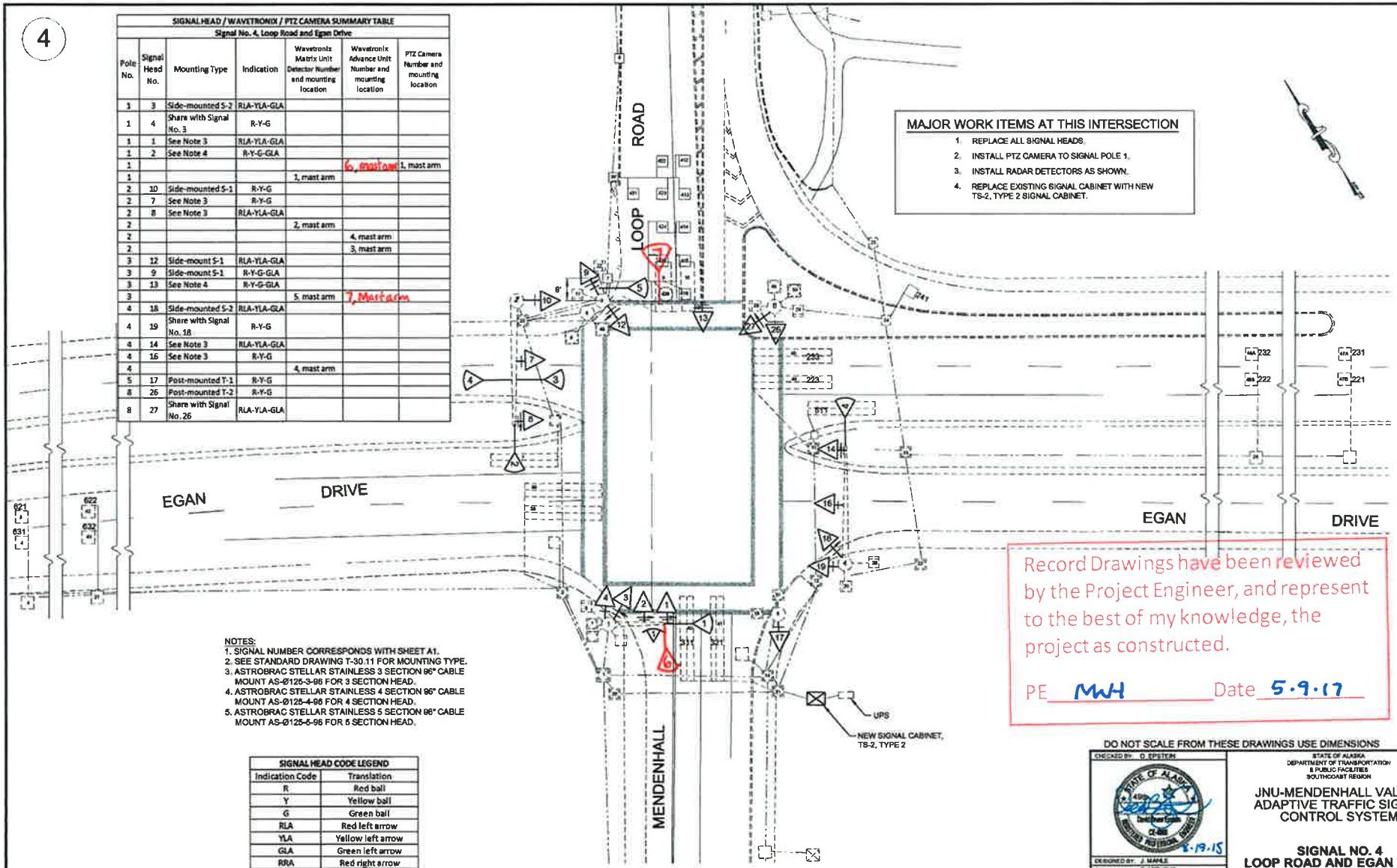
PROJECT DESIGNATION NUMBER
Z685840000 ~ 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F6 | 29 |

4

**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 | | | | | 6, mast arm | 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 | 7, 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 | | | |




**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.

**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 |

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

JNU-MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

**SIGNAL NO. 4 LOOP ROAD AND EGAN DRIVE**

8.19.15

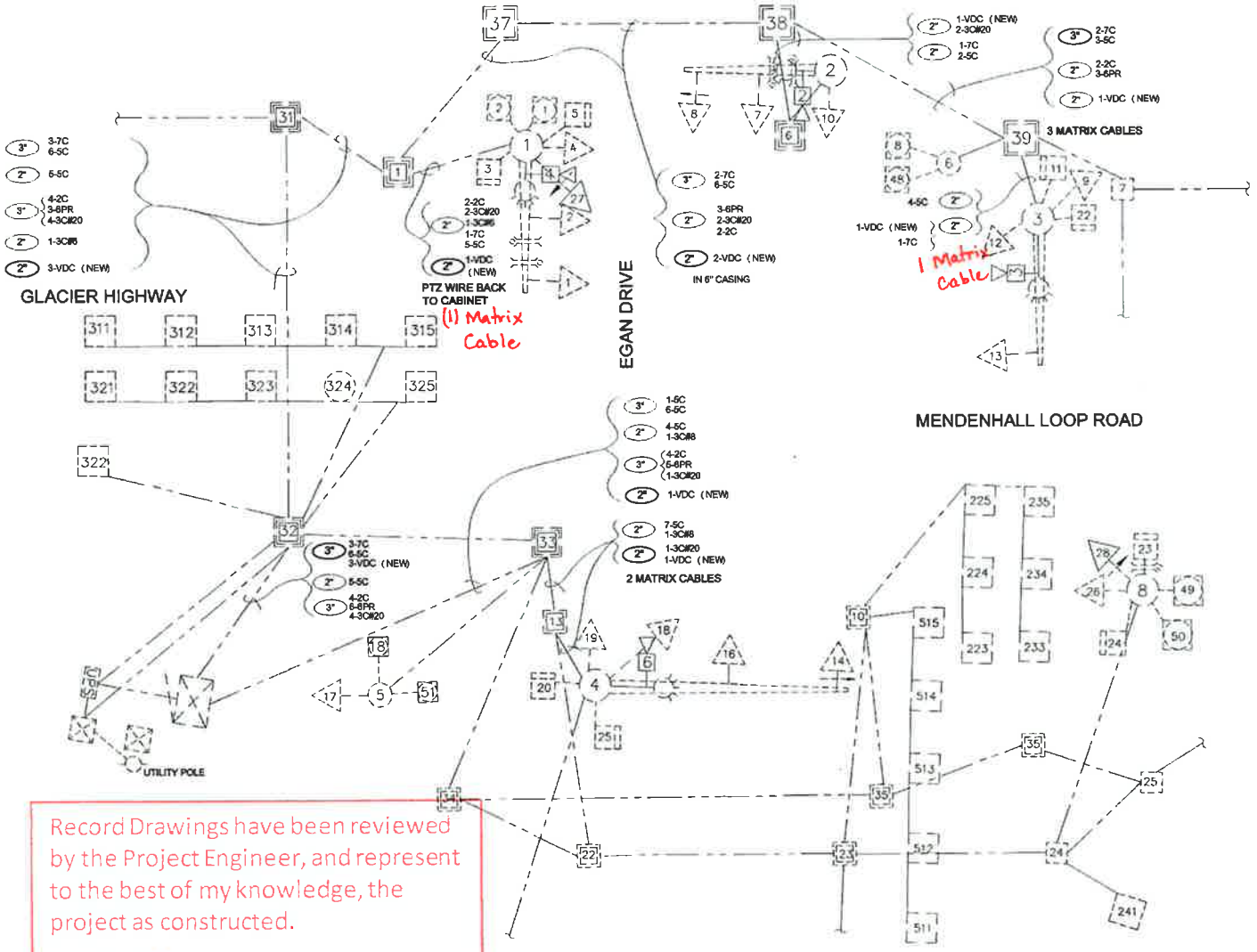
DESIGNED BY: J. MAPLE
DRAWN BY: D.STEVENS

PATH: O:\JNU\685840\PLANSET\685840_LOOP RD & EGAN DRIVE.DWG
TAB: MODEL Wednesday, August 16, 2016 7:42:19 AM STEVENS, DAVID A (DOT)

| REVISIONS NO | DATE | DESCRIPTION |
|---|---|---|
| | | |

| PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| Z685840000~0003184 | 2015 | F7 | 29 |

4




Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MNH Date 5.9.17

PATH: O:\Jnu\68584\Plansel\68584_Loop & Egan wi
Tue 18/Aug/15 02:54PM
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. 4
LOOP ROAD AND EGAN DRIVE
WIRING DIAGRAM

STATE OF ALASKA — 10th — David Bruce Epstein — CE-8888 — TRAFFIC ENGINEER — PROFESSIONAL ENGINEER
8.19.15

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

SIGNAL NO. 4
LOOP ROAD AND EGAN DRIVE
WIRING DIAGRAM

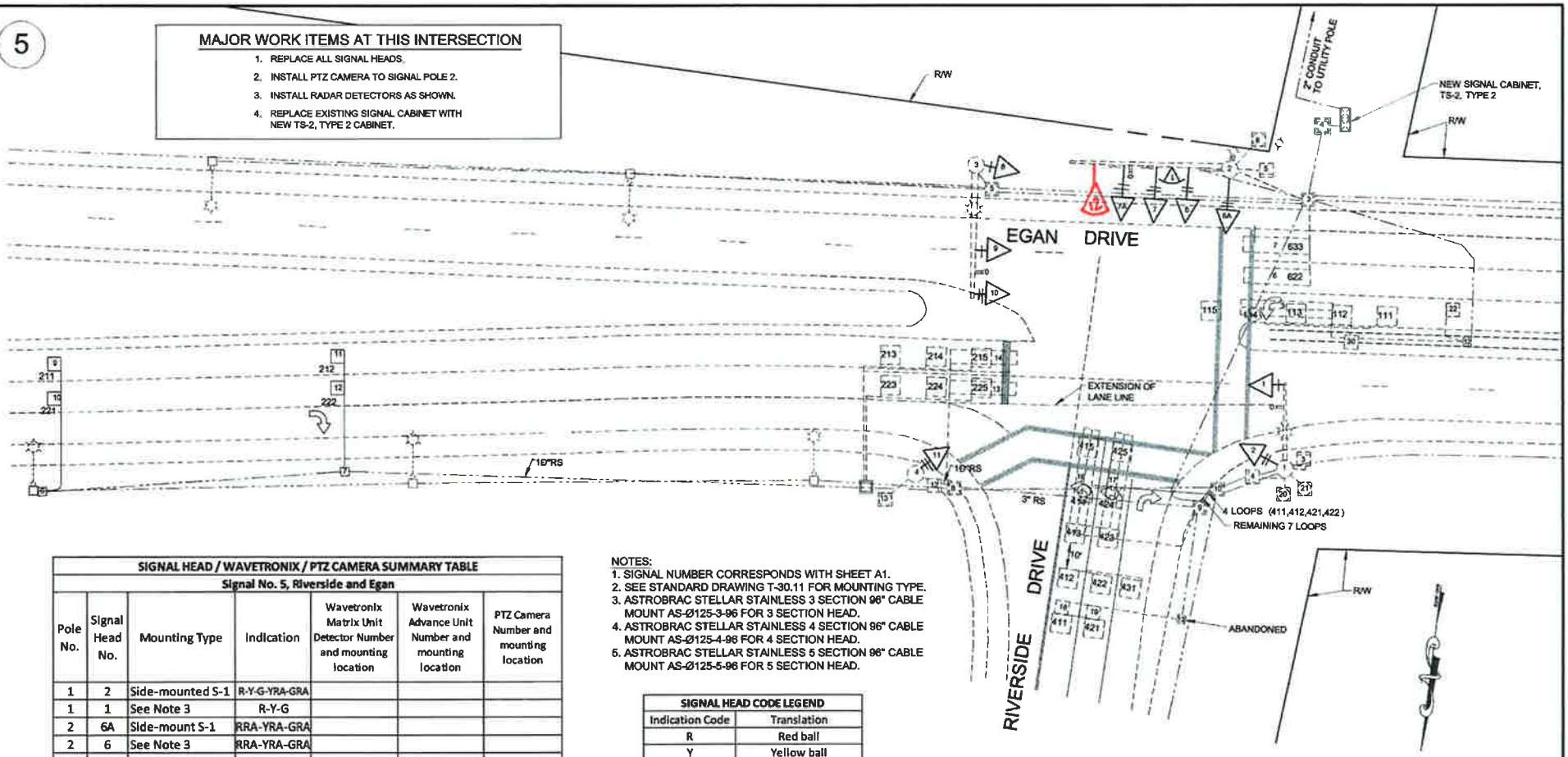
PROJECT DESIGNATION NUMBER
Z685840000 – 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F8 | 29 |

5

## 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 | | | | | 12, Mast Arm | 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 |

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5-9-17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

8-19-15

DESIGNED BY: J. MAHLE
DRAWN BY: D.STEVENS

PATH: G:\JNU\685840\PLANSET\685840_RIVERSIDE & EGAN.DWG
TAB: F9 Monday, August 17, 2015 1:30:03 PM STEVENS, DAVID A (DOT)

| REVISIONS NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

# JNU-MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

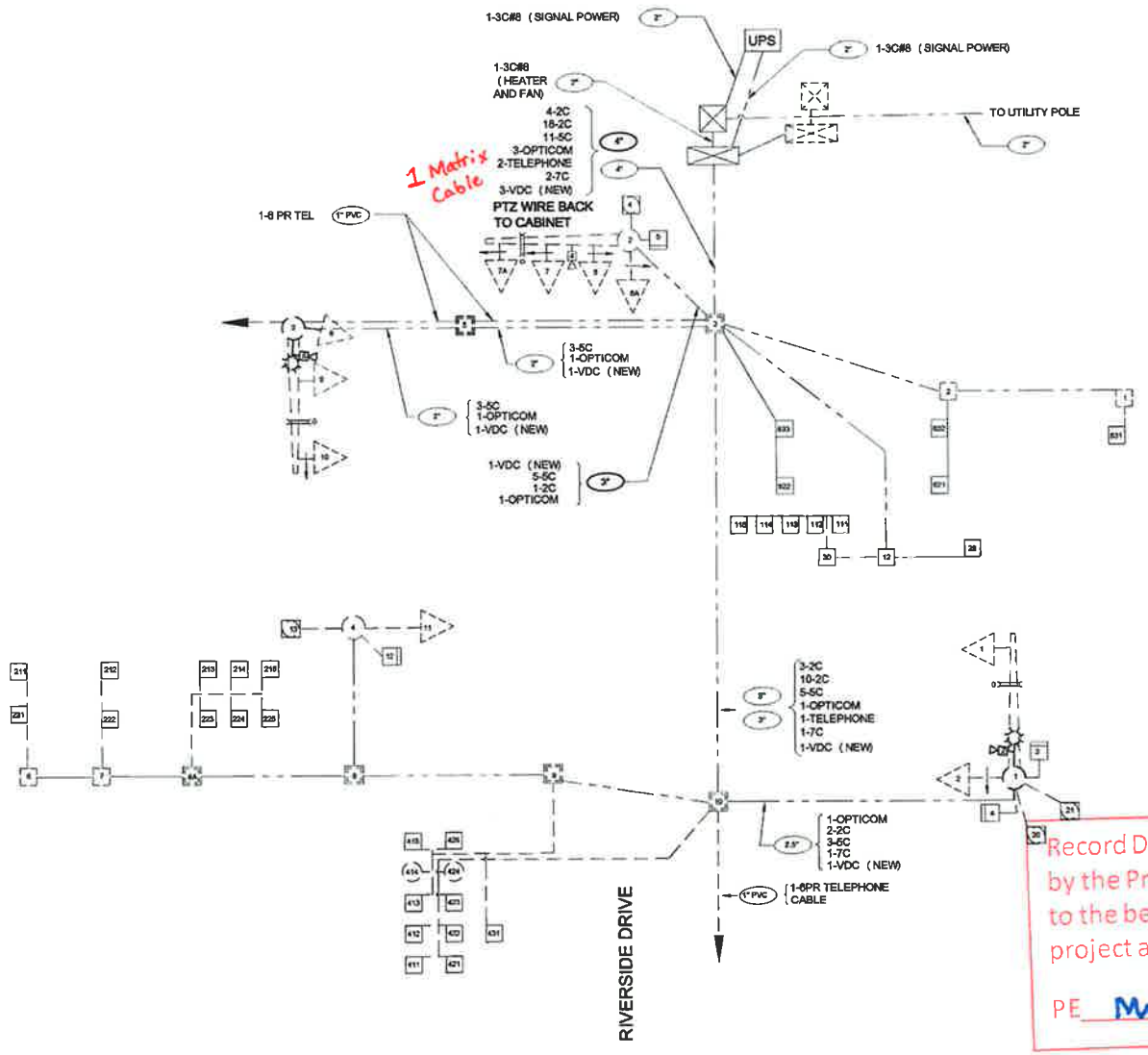
## SIGNAL NO. 5 RIVERSIDE AND EGAN DRIVE

| PROJECT DESIGNATION | YEAR | SHEET NO | TOTAL SHEETS |
|---|---|---|---|
| Z685840000-0003184 | 2015 | F9 | 29 |

5

NOTES:

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




Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MH Date 5.9.17

PATH: O:\pw\68584\Planset\68584_Riverside & Egan
Tue, 18/Aug/15 02:55PM
PLOT:
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TAB: TYPICAL5

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

STATE OF ALASKA
DAVID EPSTEIN
CE-2000
REGISTERED PROFESSIONAL ENGINEER
8.9.15

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

SIGNAL NO. 5
RIVERSIDE AND EGAN DRIVE
WIRING DIAGRAM

PROJECT DESIGNATION NUMBER
Z685840000 – 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F10 | 29 |

6

**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 | 17, 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 | 16, Mast Arm | |
| 4 | | | | 2, mast arm | | |

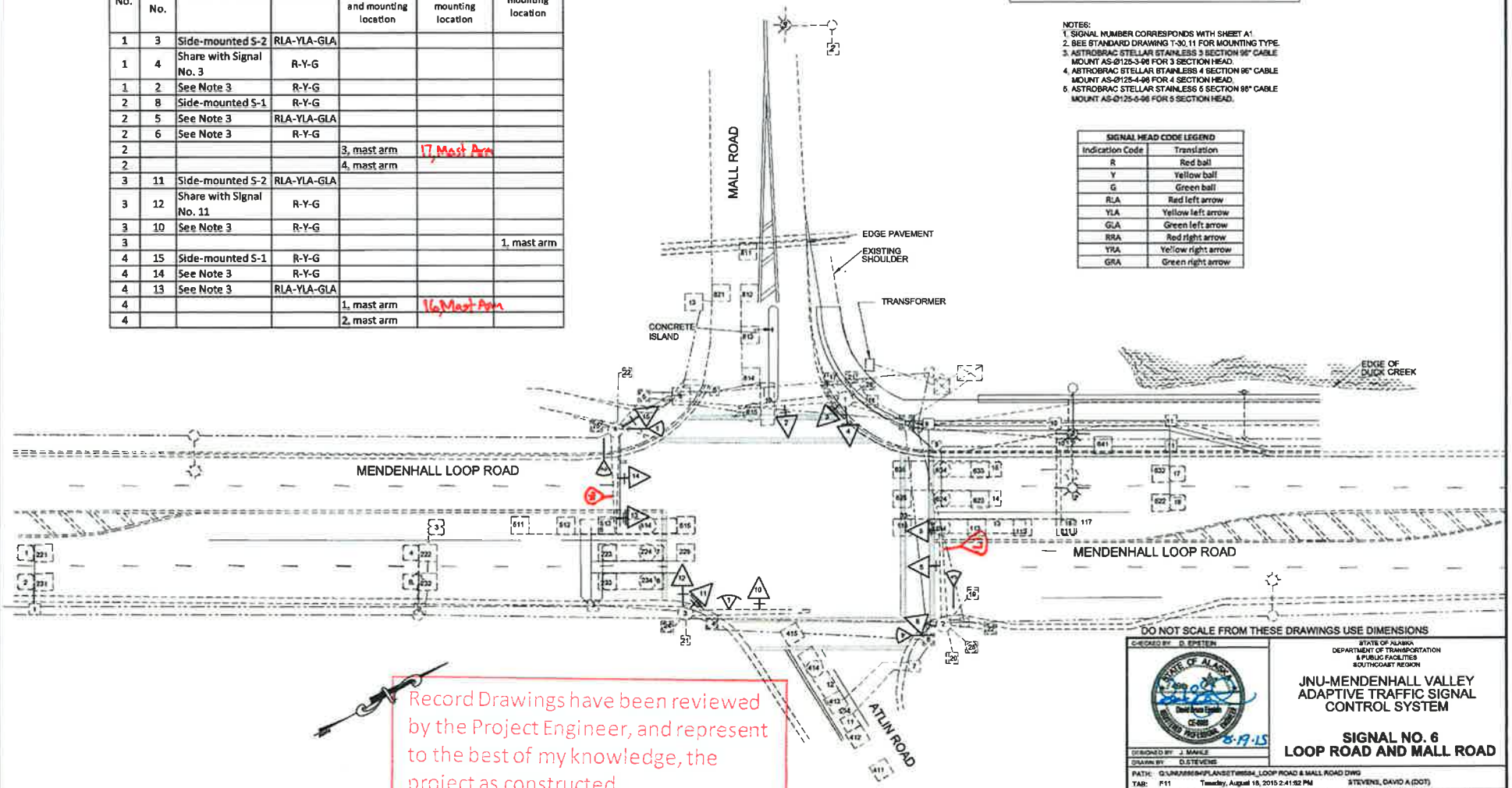
**MAJOR WORK ITEMS AT THIS INTERSECTION**

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-@125-3-96 FOR 3 SECTION HEAD.
4. ASTROBRAC STELLAR STAINLESS 4 SECTION 96° CABLE MOUNT AS-@125-4-96 FOR 4 SECTION HEAD.
5. ASTROBRAC STELLAR STAINLESS 5 SECTION 96° CABLE MOUNT AS-@125-5-96 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 |




Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MW-1 Date 5.9.17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: D. EPSTEIN
DESIGNED BY: J. MARLE
DRAWN BY: D.STEVENS
PATH: G:\JNU\685840\PLANS\ET\685840_LOOP ROAD & MALL ROAD.DWG
TAB: F11 Tuesday, August 18, 2015 2:41:52 PM STEVENS, DAVID A (DOT)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

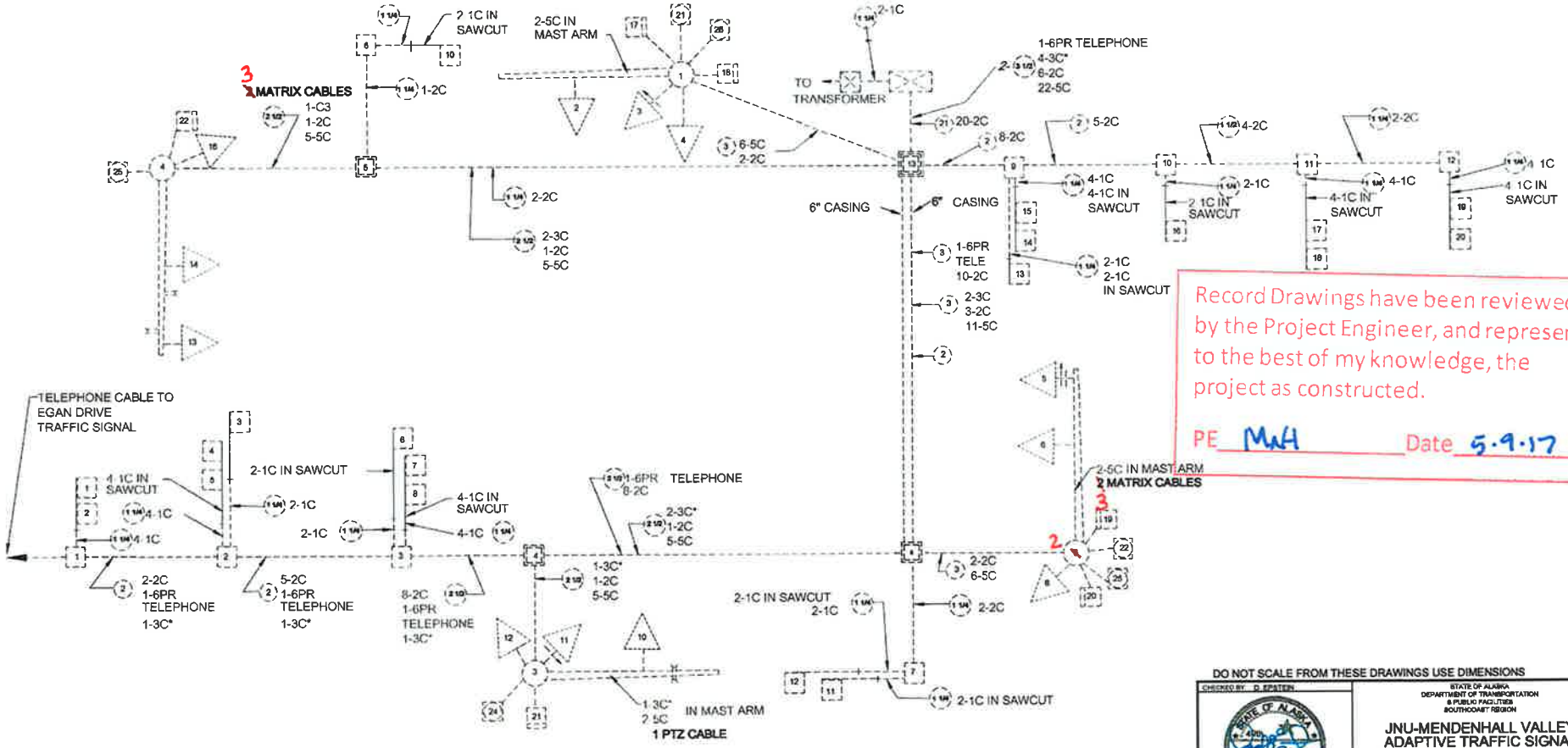
JNU-MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

**SIGNAL NO. 6 LOOP ROAD AND MALL ROAD**

| NO | DATE | REVISIONS DESCRIPTION |
|---|---|---|
| | | |

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

6




Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MH Date 5.9.17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

JNU-MENDENHALL VALLEY
ADAPTIVE TRAFFIC SIGNAL
CONTROL SYSTEM

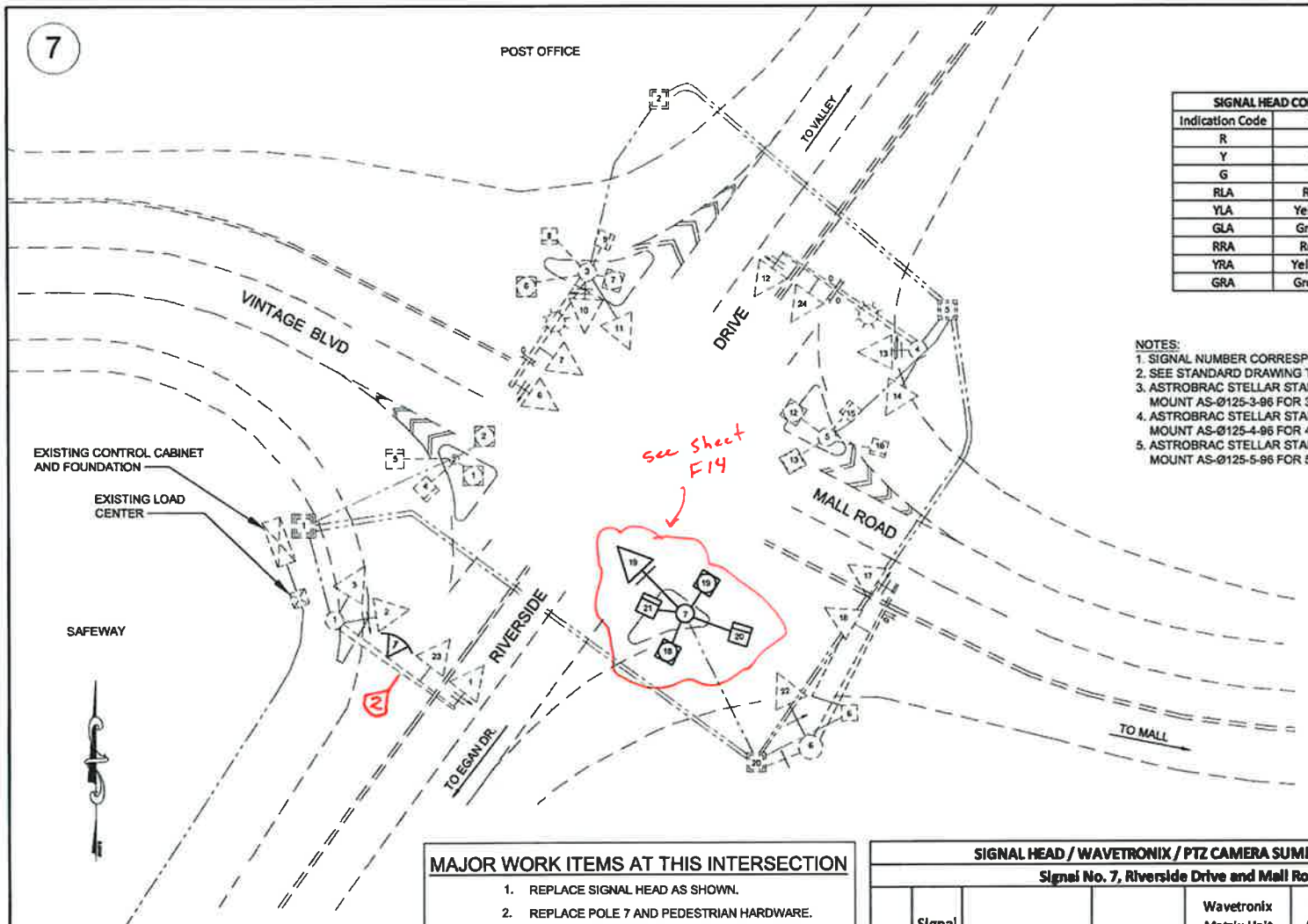
SIGNAL NO. 6
LOOP ROAD AND MALL ROAD
WIRING DIAGRAM

8-A-15

DESIGNED BY: J. MAHLE
DRAWN BY: D.STEVENS

PATH: G:\JNU\685684\PLANSET\685684_LOOP RD & MALL RD WIRING.DWG
TAB: F12 Tuesday, August 18, 2015 11:12:15 AM STEVENS, DAVID A (DOT)

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




| 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.

## 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 | | | | | 2, Mast Arm | 1, signal pole |
| 7 | 19 | Post-mounted T-1 | R-Y-G | | | |

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MH Date 5.9.17

PATH: O:\Anc\68584\Plansel\68584_Riverside & Mall
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
2565840000 – 0003184

SIGNAL NO. 7
RIVERSIDE AND MALL ROAD

STATE OF ALASKA 49th
Daniel Vince Epstein
CE-9888
8.19.15

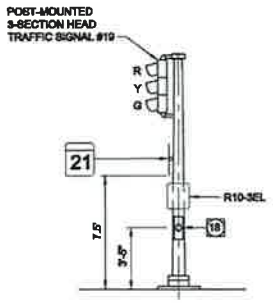
DESIGNED BY: D. EPSTEIN
DRAWN BY: D. STEVENS

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

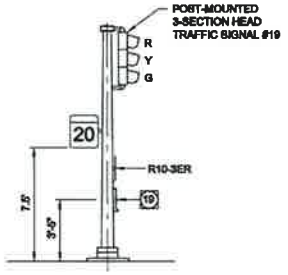
SIGNAL NO. 7
RIVERSIDE AND MALL ROAD

PROJECT DESIGNATION NUMBER
2565840000 – 0003184

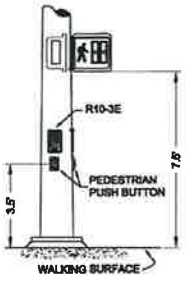
| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F13 | 29 |



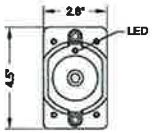

SIGNAL NO. 7
POLE 7
LOOKING NORTH




SIGNAL NO. 7
POLE 7
LOOKING SOUTH

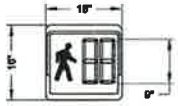



PEDESTRIAN HARDWARE




PED PUSH BUTTON

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




COUNTDOWN PED SIGNAL

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

Signal Pole No.7 → Was not replaced. The design was not what was in the field. The designer of record decided not to install Pole No. 7.

PATH:
G:\jnu\68584\Planset\68584_Riverside & Mall Signal
Mon, 17/Aug/15 02:41PM
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PSPACE 1=1 (F) OR MSPACE 1=1 (F)
TAB: TYPICAL8

| ADDENDUM NUMBER |
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| ATTACHMENT NUMBER |
|---|
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RECORD OF REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
| | | |
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| | | |
| | | |

MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 7
RIVERSIDE AND MALL ROAD

STATE OF ALASKA
David Bruce Epstein
CS-9491
3-9-15

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

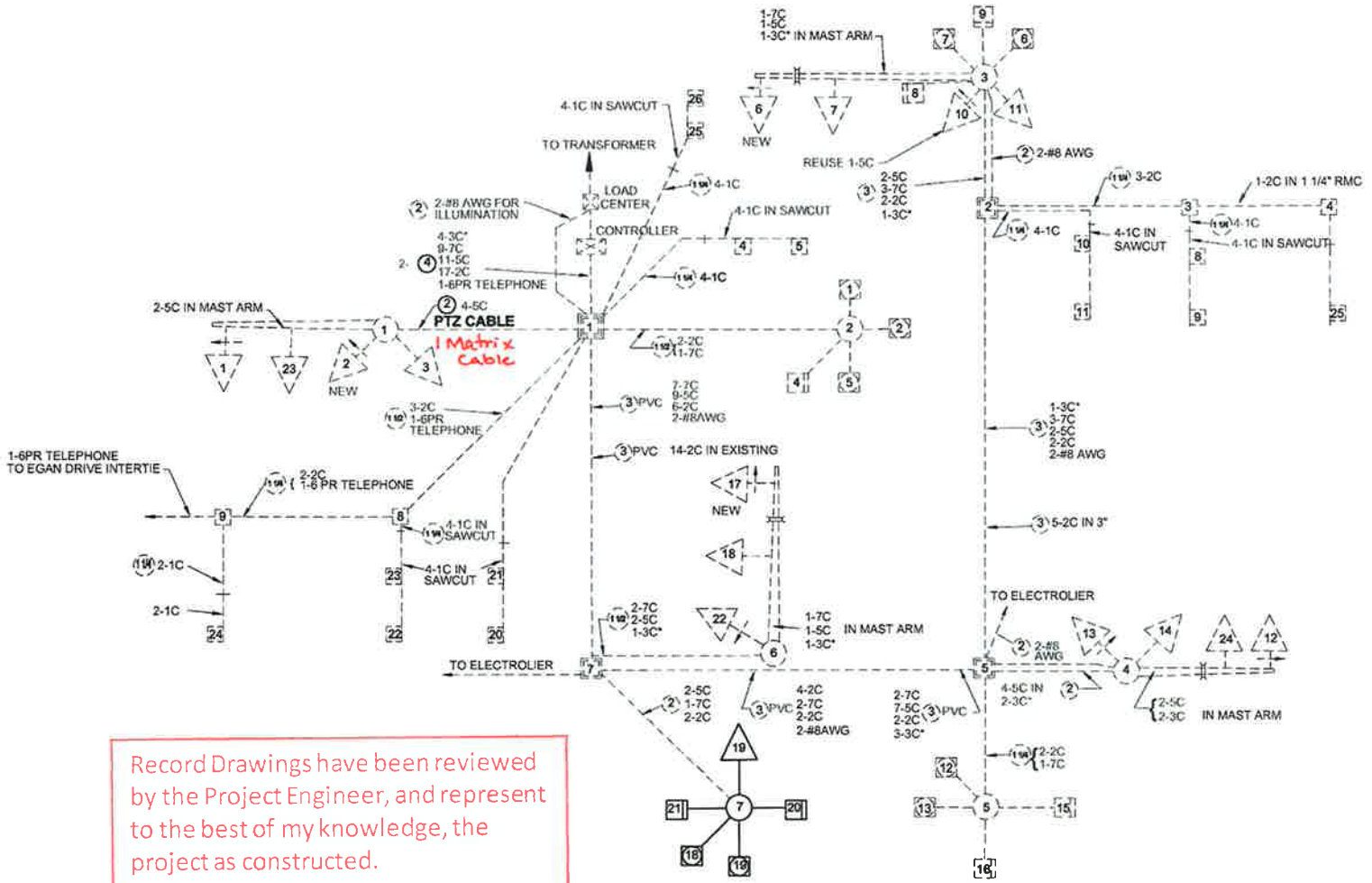
SIGNAL NO. 7
RIVERSIDE AND MALL ROAD

PROJECT DESIGNATION NUMBER
Z685840000 ~ 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |

| SHEET NUMBER | TOTAL SHEETS |
|---|---|
| F14 | 29 |

7




Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5·9·17

PATH: O:\Jnu\68584\Proposal\68584_Riverside & Mall
Tue, 18/Aug/15 02:36PM
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TAB: TYPICALS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | | |

MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
2585840000 – 0003184

SIGNAL NO. 7
RIVERSIDE AND MALL ROAD
WIRING DIAGRAM

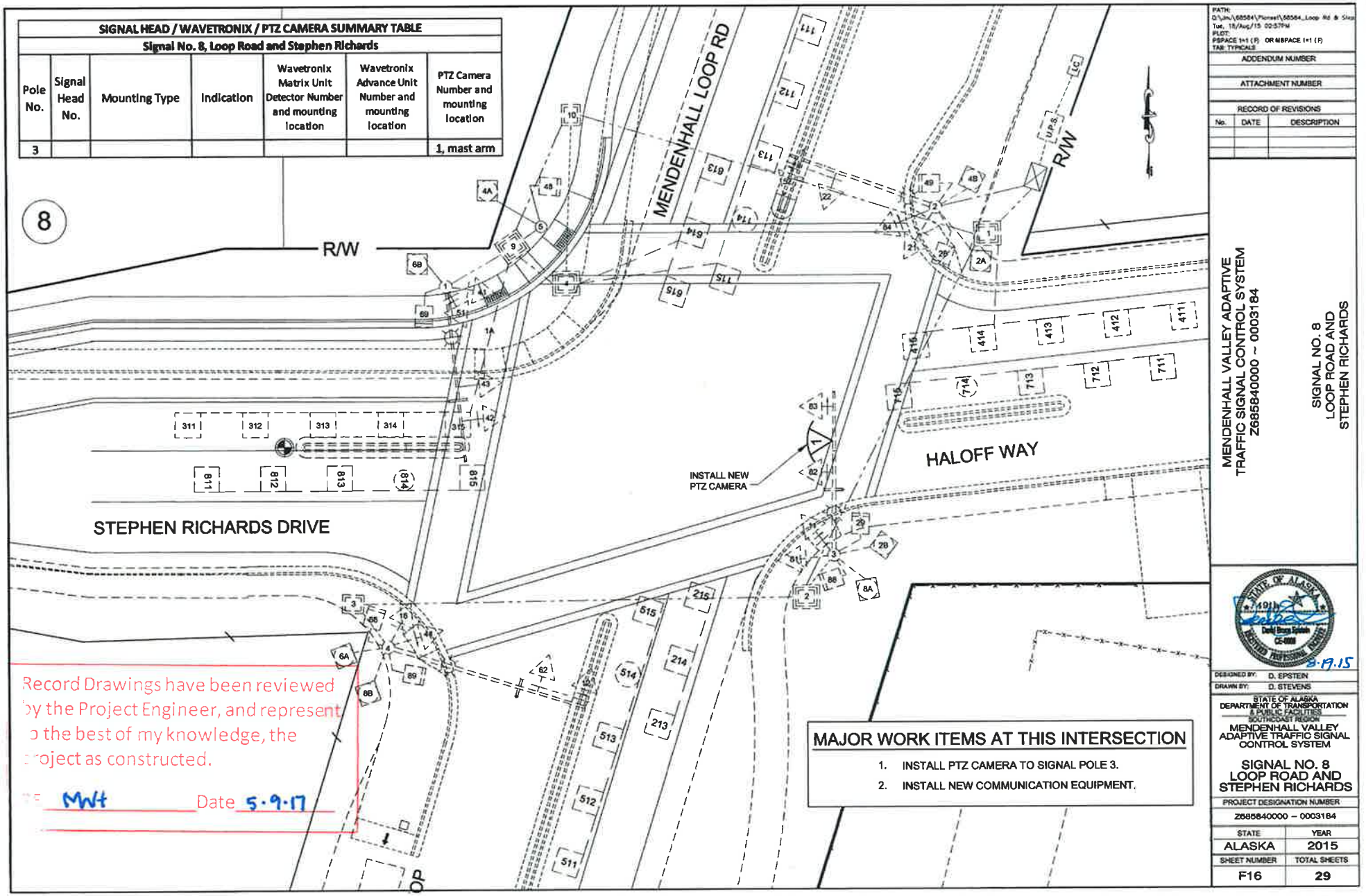
8.19.15

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
SIGNAL NO. 7
RIVERSIDE AND MALL ROAD
WIRING DIAGRAM

PROJECT DESIGNATION NUMBER
2585840000 – 0003184

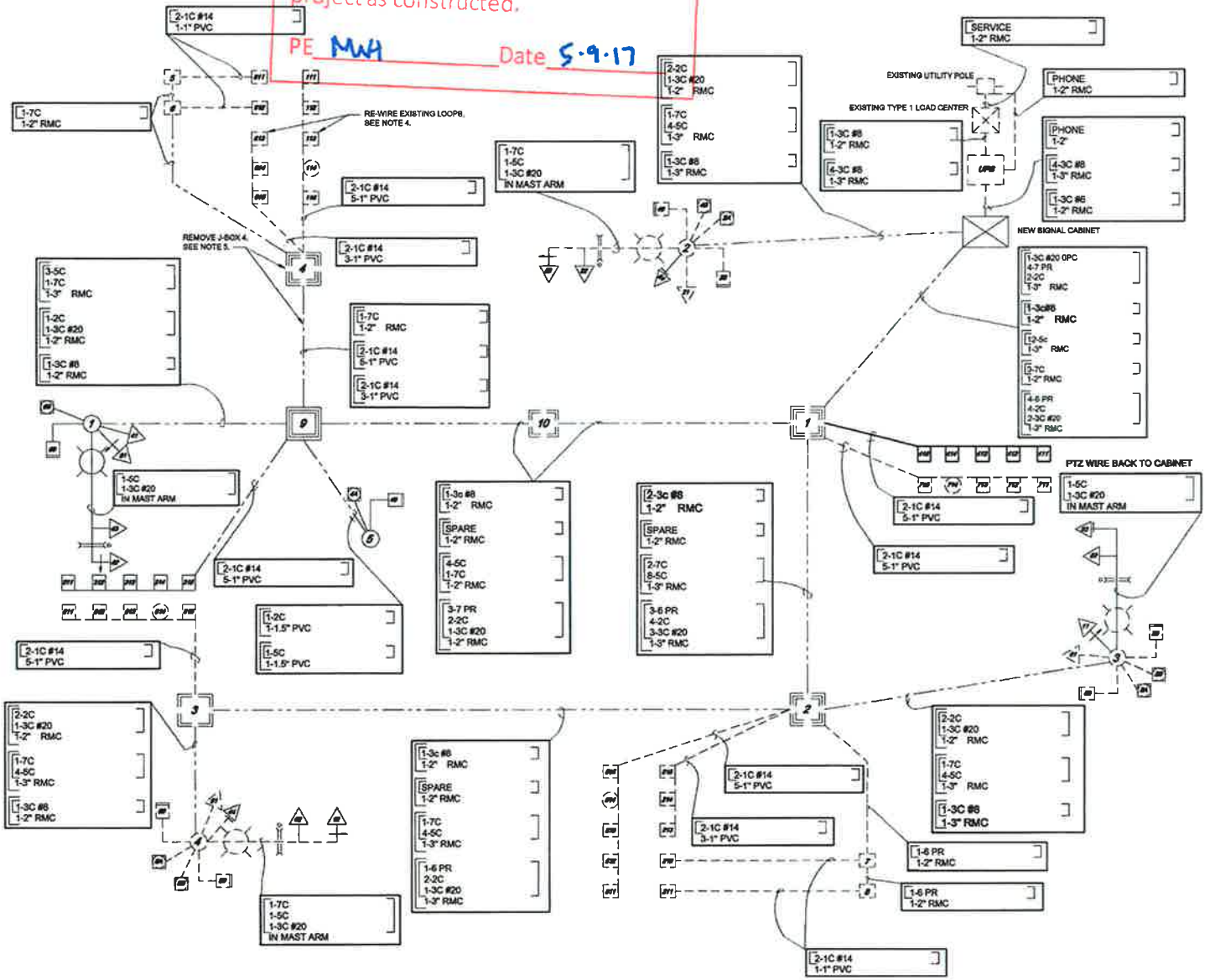
| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F15 | 29 |


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
R/W
MENDENHALL LOOP RD
HALOFF WAY
STEPHEN RICHARDS DRIVE
INSTALL NEW PTZ CAMERA
U.P.S. R/W
MAJOR WORK ITEMS AT THIS INTERSECTION
1. INSTALL PTZ CAMERA TO SIGNAL POLE 3.
2. INSTALL NEW COMMUNICATION EQUIPMENT.
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
Date 5-9-17
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
5-9-15
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
SIGNAL NO. 8
LOOP ROAD AND
STEPHEN RICHARDS
PROJECT DESIGNATION NUMBER
Z685840000 – 0003184
STATE: ALASKA
YEAR: 2015
SHEET NUMBER: F16
TOTAL SHEETS: 29

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5-9-17

8




PATH: O:_Inv_68584\Plansel_68584_Loop rd & Stephen Tue, 18/Aug/15 02:58PM
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TAB: TYPICALS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
| | | |
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MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 ~ 0003184

SIGNAL NO. 8
LOOP ROAD AND STEPHEN RICHARDS
WIRING DIAGRAM

STATE OF ALASKA — REGISTERED PROFESSIONAL ENGINEER — David Bruce Epstein CE-8888

8-19-15

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

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

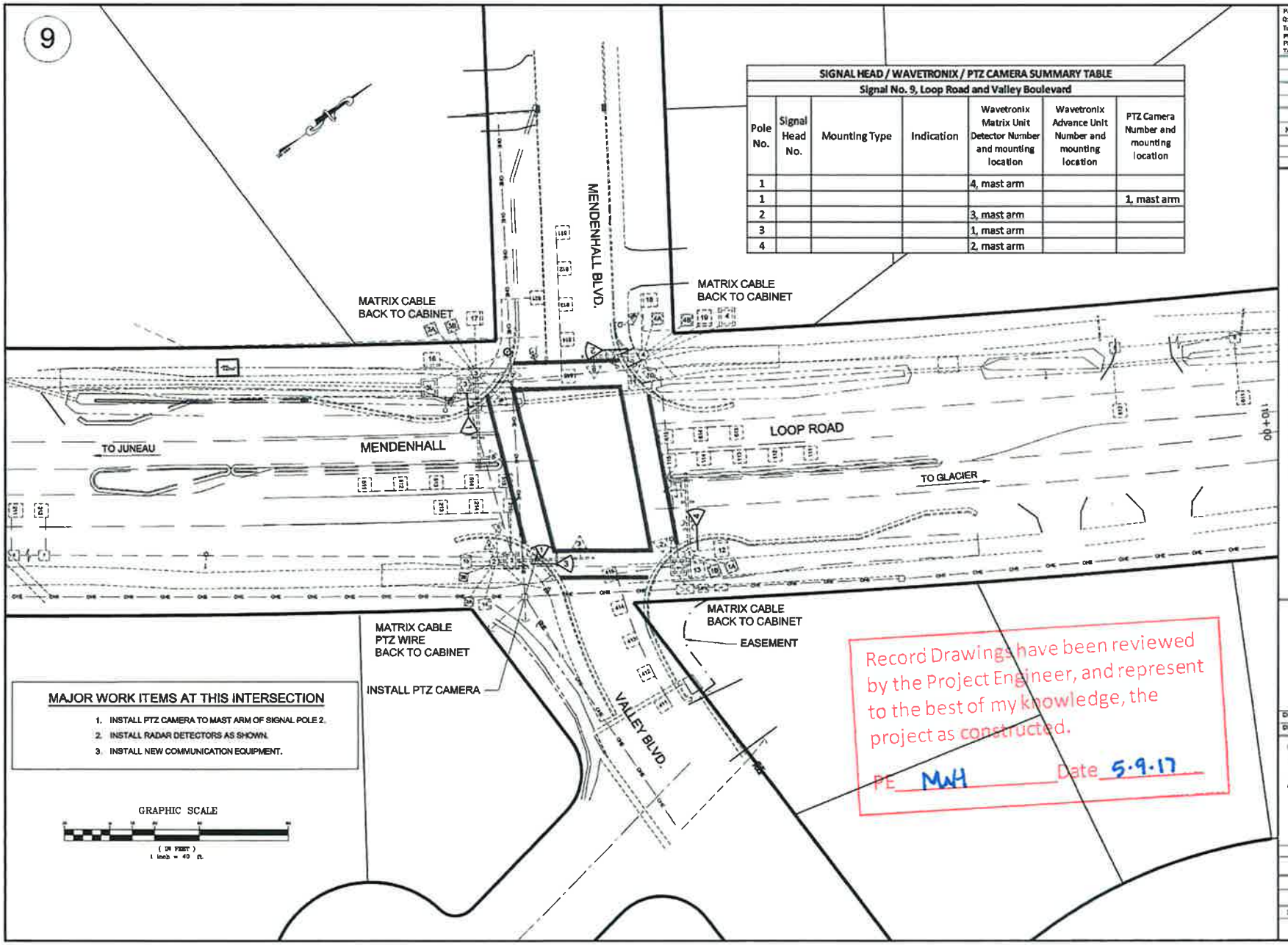
MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

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 |

9




**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 | | |

**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

( IN FEET )
1 inch = 40 ft.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

PATH:
Q:\Jnu\68584\Pioneer\68584_Loop Road & Va
Tue, 18/Aug/15 09:12AM
PLOT:
PSPACE 1=1 (F) OR MSPACE 1=1 (F)
TAB: TYPICALS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
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MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
Z685840000 – 0003184

SIGNAL NO. 9
LOOP ROAD AND
VALLEY BOULEVARD

STATE OF ALASKA
49th
David Bruce Epstein
CE-9999
REGISTERED PROFESSIONAL ENGINEER
8.19.15

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

SIGNAL NO. 9
LOOP ROAD AND
VALLEY BOULEVARD

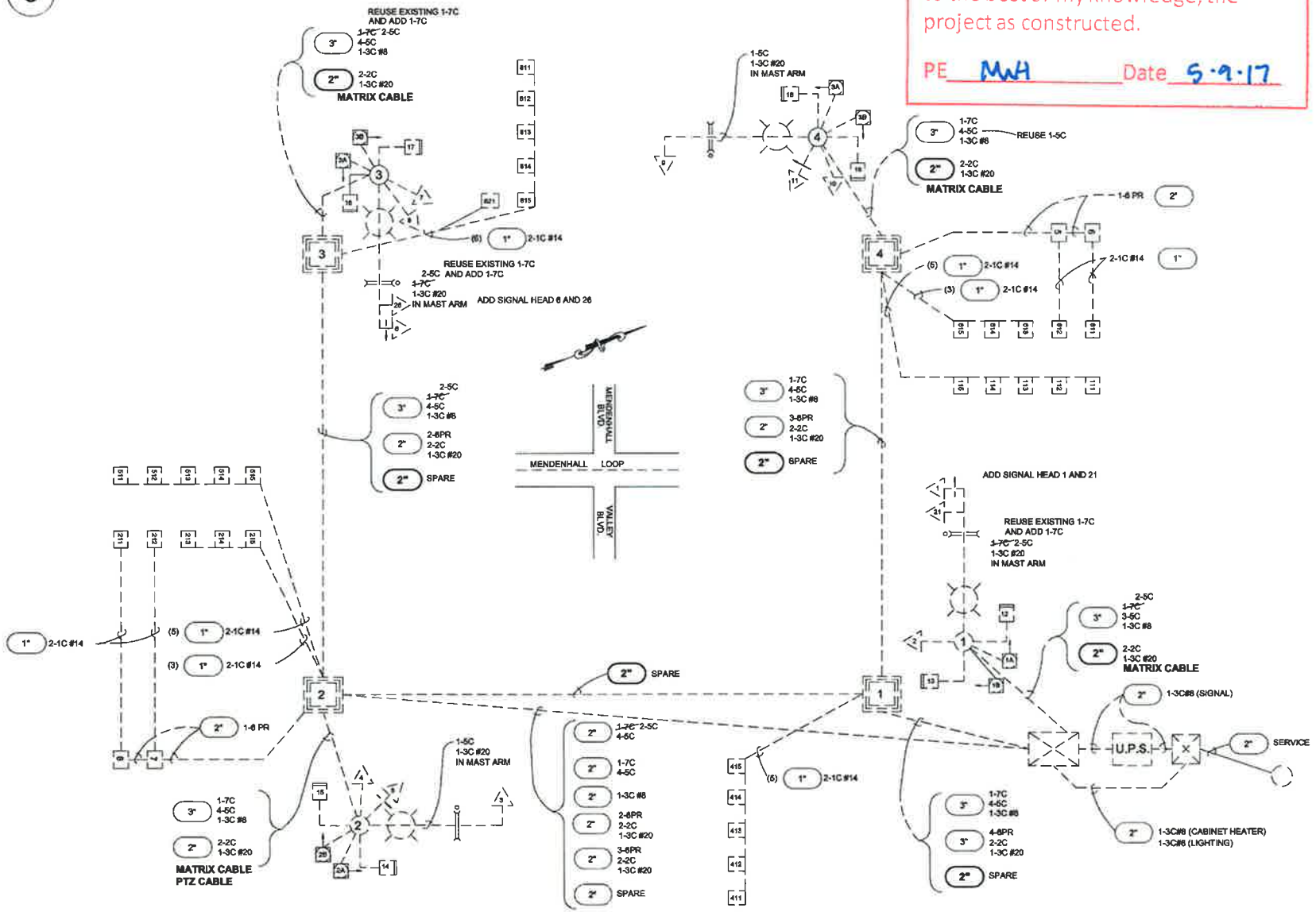
PROJECT DESIGNATION NUMBER
Z685840000 – 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F18 | 29 |

9

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5-9-17

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TAB: TYPICALS

| ADDENDUM NUMBER |
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| 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
WIRING DIAGRAM

STATE OF ALASKA 49th
Daniel Vincent Epstein
CE-9998
REGISTERED PROFESSIONAL ENGINEER
8.19.15

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

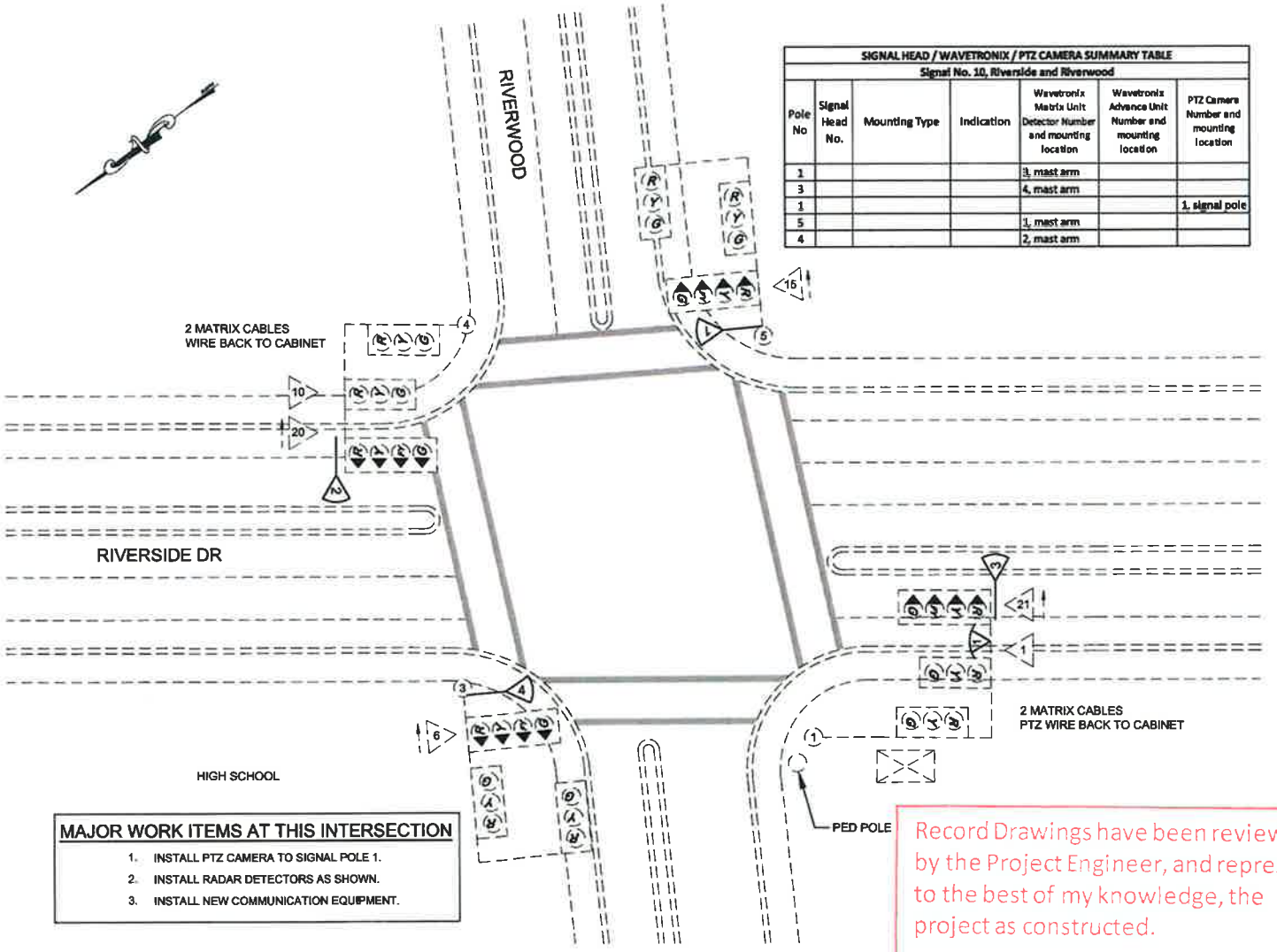
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION
MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

SIGNAL NO. 9
LOOP ROAD AND VALLEY BOULEVARD
WIRING DIAGRAM

PROJECT DESIGNATION NUMBER
Z685840000 – 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F19 | 29 |

10




| SIGNAL HEAD / WAVETRONIX / PTZ CAMERA SUMMARY TABLE<br>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.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MH Date 5.9.17

PATH: Q:\dnu\68584\Plansel\68584_Riverside & Rive
Tue, 18/Aug/15 02:26PM
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. 10
RIVERSIDE AND RIVERWOOD

STATE OF ALASKA
49th
David Bruce Epstein
CE-9999
REGISTERED PROFESSIONAL ENGINEER
8.19.15

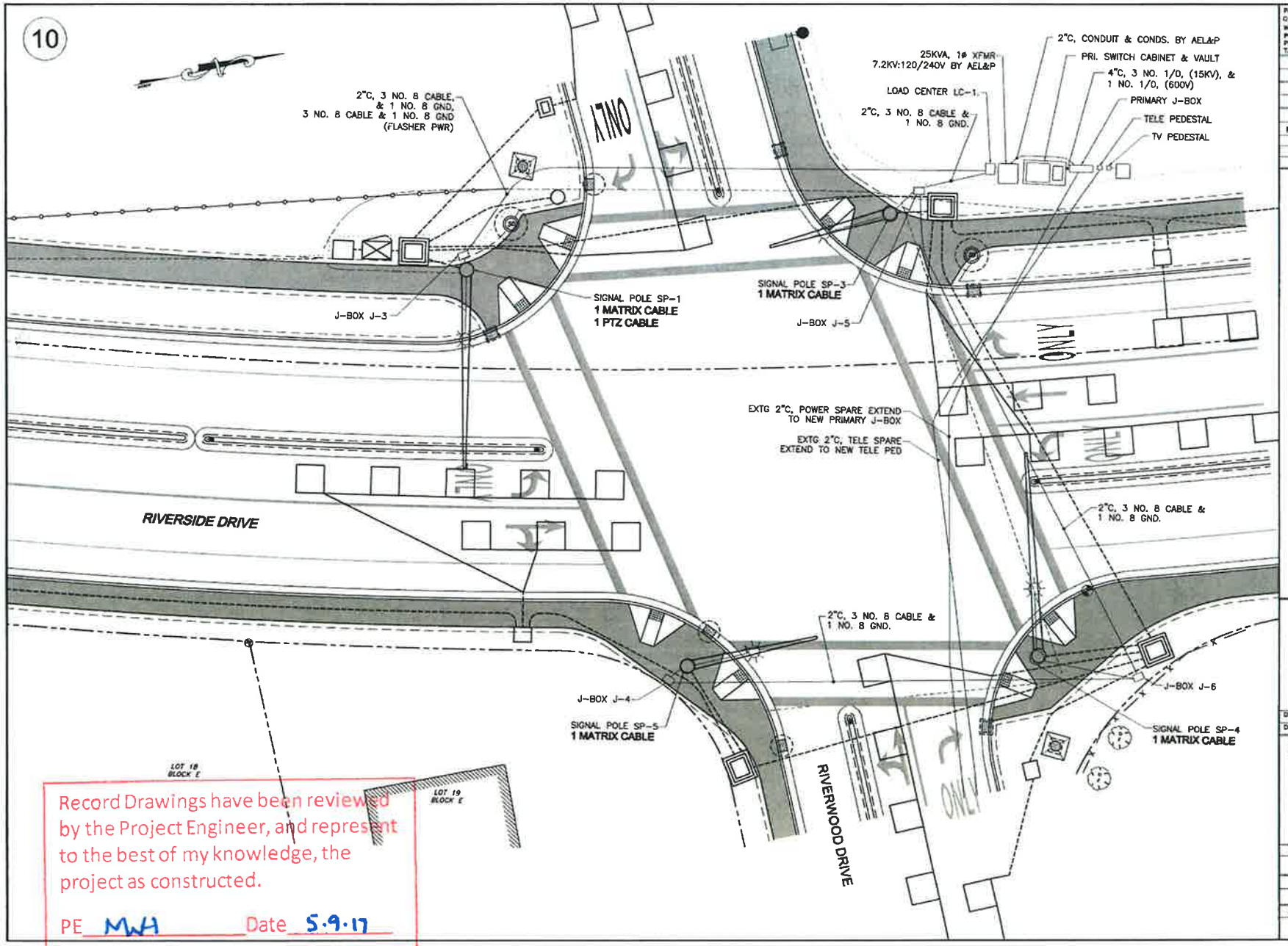
DESIGNED BY: D. EPSTEIN
DRAWN BY: D. STEVENS

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

SIGNAL NO. 10
RIVERSIDE AND RIVERWOOD

PROJECT DESIGNATION NUMBER
Z685840000 ~ 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F20 | 29 |




Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

PATH: G:\pw\68584\Pioneer\68584_Riverside & River... Wed, 19/Aug/15 09:05AM
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. 10
RIVERSIDE AND RIVERWOOD
WIRING DIAGRAM

STATE OF ALASKA
David Bruce Epstein
CE-9881
REGISTERED PROFESSIONAL ENGINEER
8.19.15

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

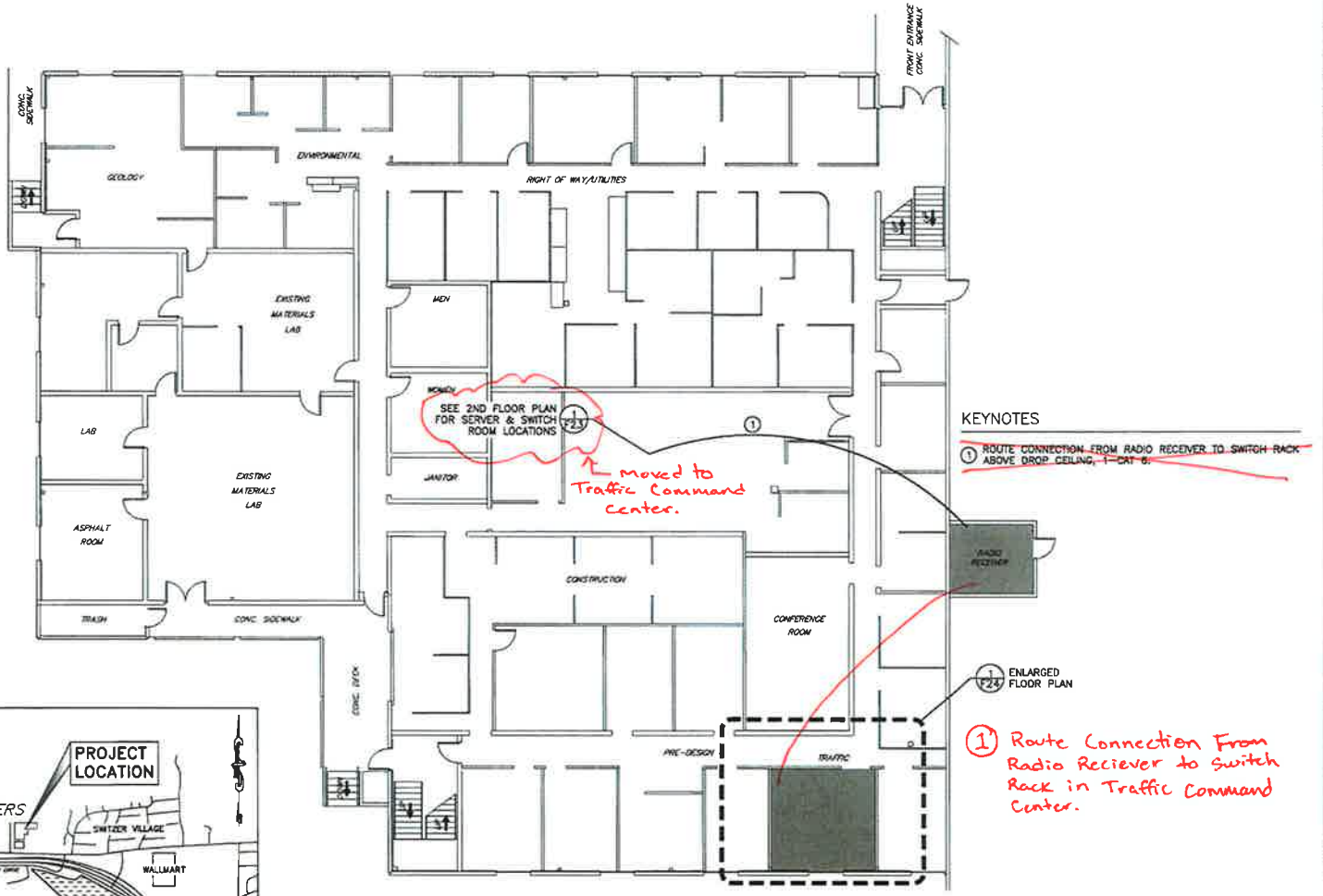
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

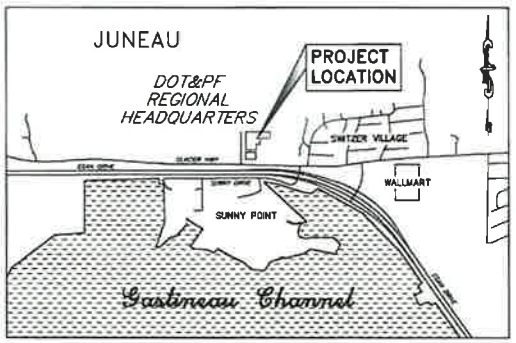
SIGNAL NO. 10
RIVERSIDE AND RIVERWOOD
WIRING DIAGRAM

PROJECT DESIGNATION NUMBER
Z685840000 ~ 0003184

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F21 | 29 |




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




VICINITY MAP

# SOUTHCOAST REGION HEADQUARTERS - 1ST FLOOR PLAN

Mon, 17/Aug/15 10:46AM
PLOT:
PSPACE 1=1 (F) OR MSPACE 1=1 (F)
TAB: TYPICALS

| ADDENDUM NUMBER |
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RECORD OF REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
| | | |

MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
0003184 ~ Z685840000
SOUTHCOAST 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
SOUTHCOAST REGION

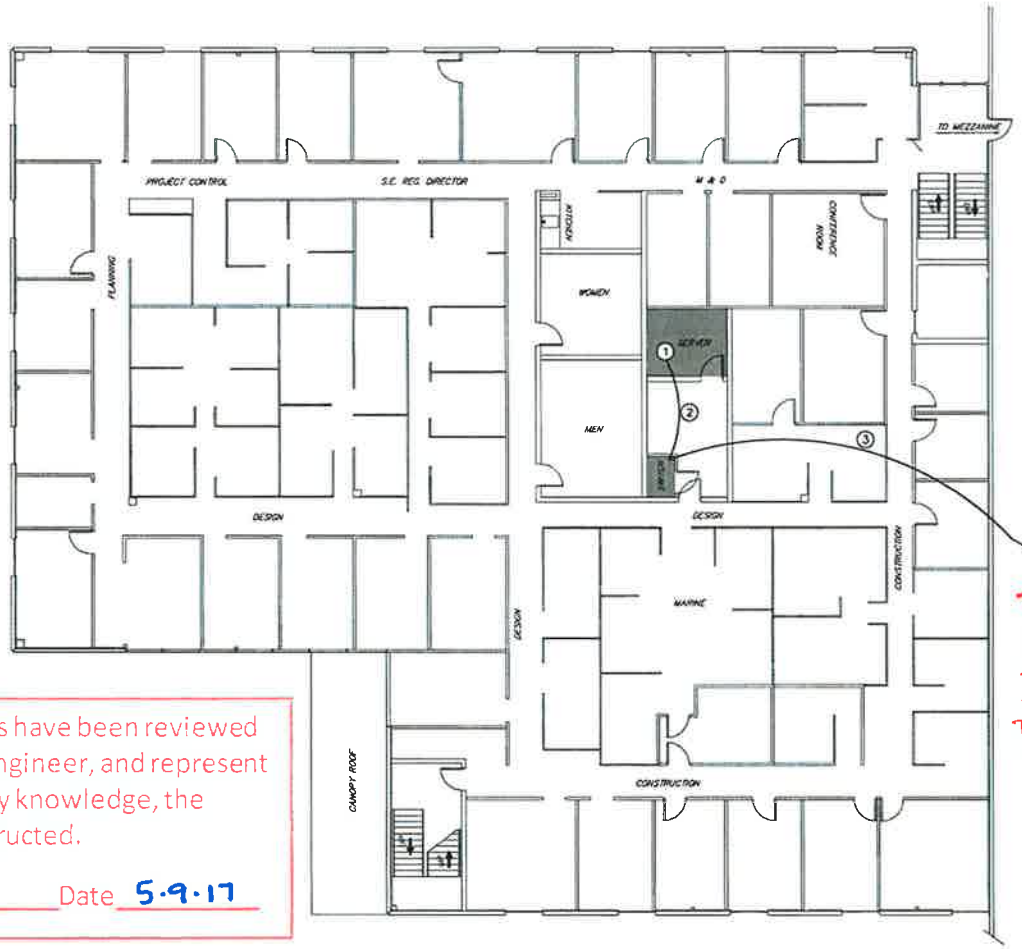
MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
SOUTHCOAST REGION TRAFFIC COMMAND CENTER

| PROJECT DESIGNATION NUMBER | |
|---|---|
| 0003184~Z685840000 | |
| STATE | YEAR |
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F22 | 29 |

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5-9-17

PATH: C:\PROJECTS\0003184_SE Traffic Command Center\DWG\C\Sheets\F22.dwg




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

No equipment was located in the server building. All equipment was re-located to the Traffic command center on 1st Floor.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

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

N

## SOUTHCOAST REGION HEADQUARTERS - 2ND FLOOR PLAN

Mon, 17/Aug/15 10:45AM
PLOT:
PSPACE 1=1 (F) OR MSPACE 1=1 (F)
TAB: TYPICALS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
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| | | |

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

STATE OF ALASKA
WILLIAM A. WEBB
C-12023
REGISTERED PROFESSIONAL ENGINEER

DEVELOPED BY: KINNEY ENGINEERING, LLC
DESIGNED BY: W. WEBB
DRAWN BY: B. PADDOCK

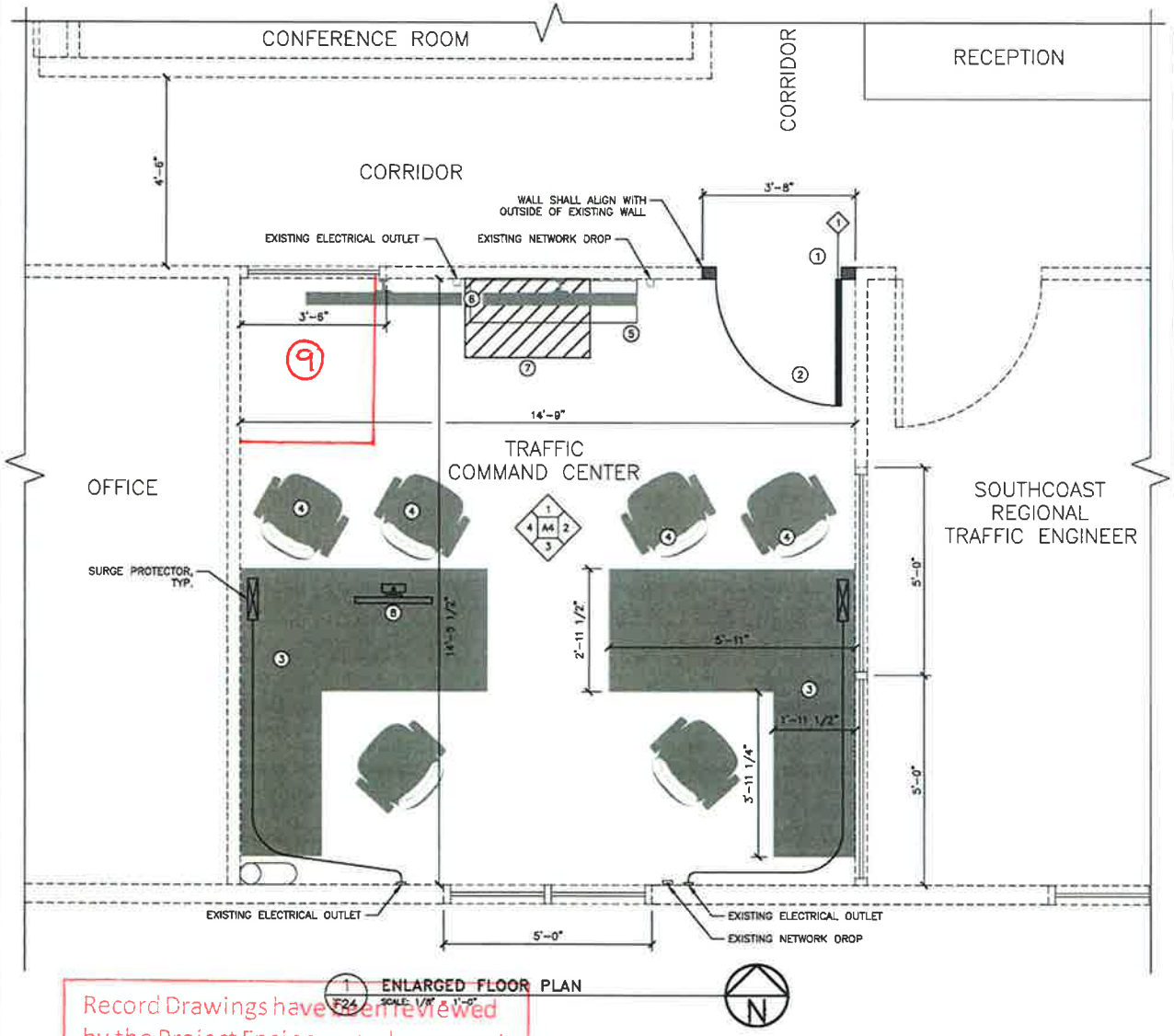
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
SOUTHCOAST REGION TRAFFIC COMMAND CENTER

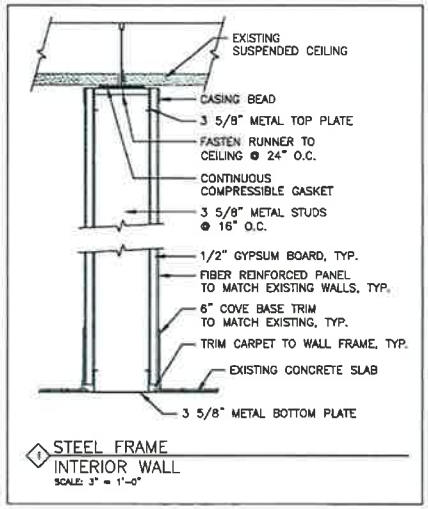
PROJECT DESIGNATION NUMBER
0003184–Z685840000

| STATE | YEAR |
|---|---|
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F23 | 29 |

PATH: C:\PROJECTS\0003184\390_as traffic command center\PROS\C\Sheets\F23.dwg




1 F24 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"




1 STEEL FRAME INTERIOR WALL
SCALE: 3" = 1'-0"

## 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
9. New Servers installed on shelf

## 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 15' AND 1 AT 8'.
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.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MW Date 5.9.17

# ENLARGED FLOOR PLAN

Mon, 17/Aug/15 10:53AM
PLOT:
PSPACE 1=1 (F) OR MSPACE 1=1 (F)
TAB: TYPICALS

| ADDENDUM NUMBER |
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| ATTACHMENT NUMBER |
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RECORD OF REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
| | | |

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

STATE OF ALASKA
WILLIAM A. WEBB
C-12023
REGISTERED PROFESSIONAL ENGINEER

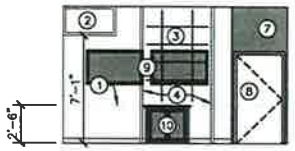
DEVELOPED BY: KINNEY ENGINEERING, LLC
DESIGNED BY: W. WEBB
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

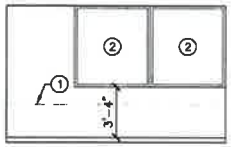
MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
SOUTHCOAST REGION
TRAFFIC COMMAND CENTER

| PROJECT DESIGNATION NUMBER | |
|---|---|
| 0003184~Z685840000 | |
| STATE | YEAR |
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F24 | 29 |

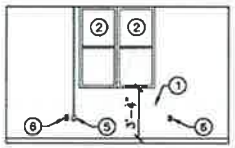
PATH: C:\PROJECTS\0003184_300_ae traffic command center\DWGS\CS\Sheets\F24.dwg



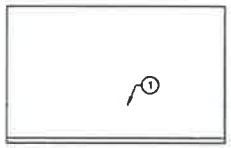
1 F25 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



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



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



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

## KEYNOTES

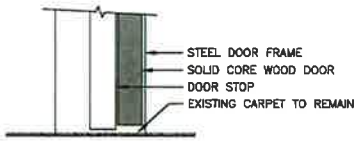
1. DESKTOP ELEVATION
2. EXISTING WINDOW
3. REMOVE EXISTING WALL MOUNTED SHELVING
4. EXISTING NETWORK AND ELECTRICAL DROP
5. EXISTING NETWORK DROP
6. EXISTING ELECTRICAL OUTLET
7. NEW WALL AND HEADER
8. NEW DOOR (SEE SCHEDULE, THIS SHEET)
9. NEW 55" MONITORS
10. NEW CABINET HOUSING TCC WORKSTATION

## DOOR & FRAME SCHEDULE

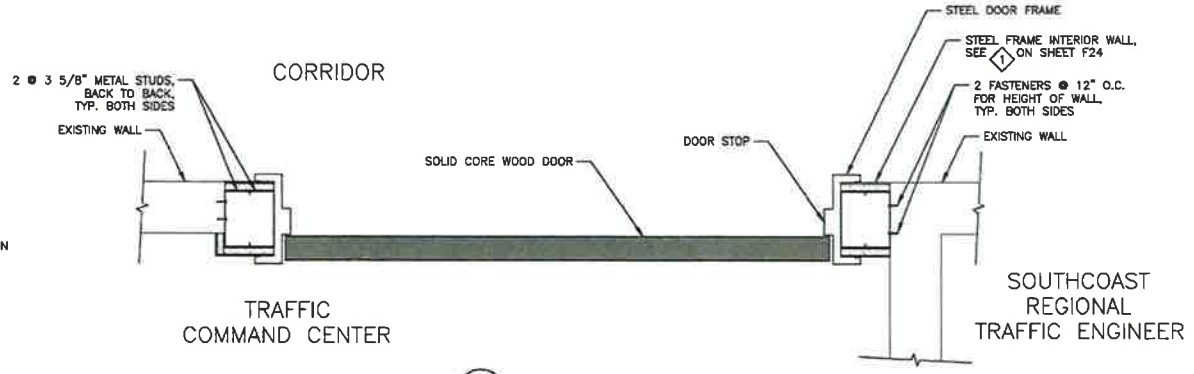
| DOOR NO. | DOOR SIZE | DOOR MATL. | DOOR FINISH | FRAME MATL. | FRAME FINISH | HDWRE | REMARKS |
|---|---|---|---|---|---|---|---|
| 1 | 3'0" X 7'0" X 1-3/4" | SCW | PT | HM | PT | 1 | INSTALL PER MANUFACTURER'S RECOMMENDATIONS |

## ABBREVIATIONS

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




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




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

# INTERIOR ELEVATIONS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

Mon, 17/Aug/15 10:54AM
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
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
SOUTHCOAST REGION

MENDENHALL VALLEY ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM
SOUTHCOAST REGION TRAFFIC COMMAND CENTER

| PROJECT DESIGNATION NUMBER | |
|---|---|
| 0003184~Z685840000 | |
| STATE | YEAR |
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| F25 | 29 |

PATH: C:\PROJECTS\0003184_traffic command center\DWGS\C\Sheets\F25.dwg

## 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) .

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MH Date 5.9.17

PATH:
D:\Jnu\68584\Planset\68584_TCP_Notes.dwg
Tue, 18/Aug/15 09:15PM
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

TRAFFIC CONTROL NOTES

STATE OF ALASKA
David Bruce Epstein
CE-9999
REGISTERED PROFESSIONAL ENGINEER
8.19.15

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

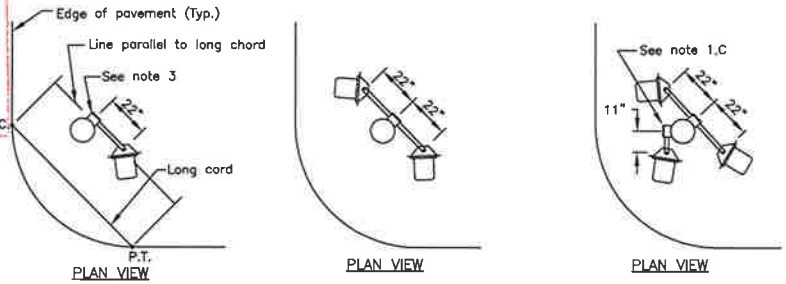
TRAFFIC CONTROL NOTES

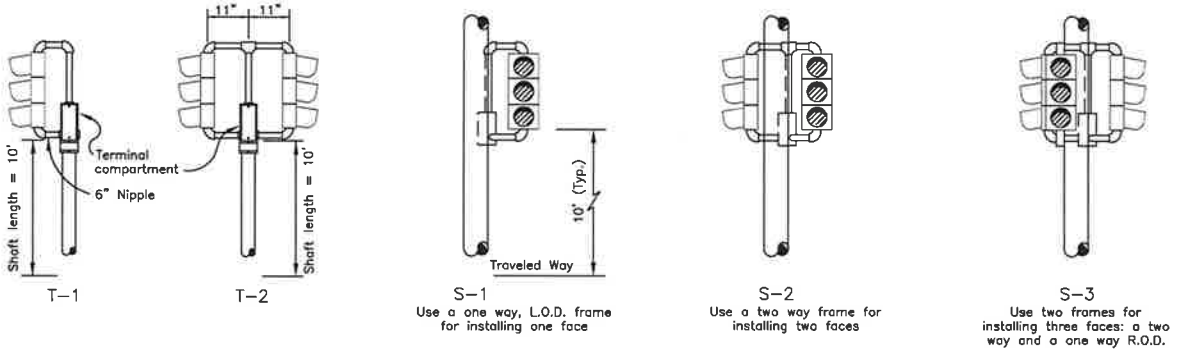
| PROJECT DESIGNATION NUMBER | |
|---|---|
| Z685840000 – 0003184 | |
| STATE | YEAR |
| ALASKA | 2015 |
| SHEET NUMBER | TOTAL SHEETS |
| S1 | 29 |

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5-9-17

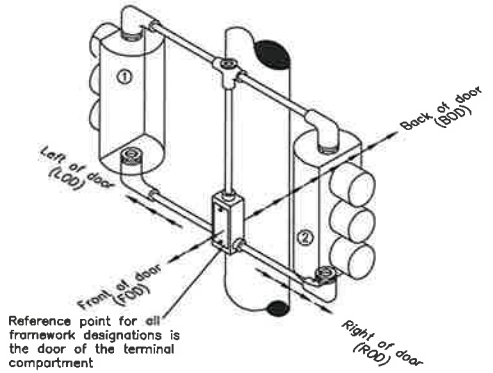
# T-30.11



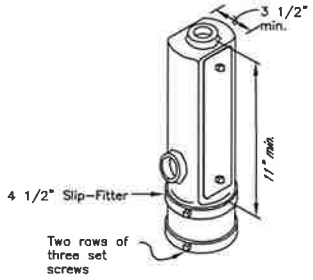




POST MOUNTED SIGNALS
(Shown without backplate)

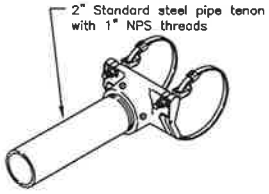
SIDE MOUNTED SIGNAL FRAMES WITH VEHICULAR SIGNALS
(Shown without backplates)



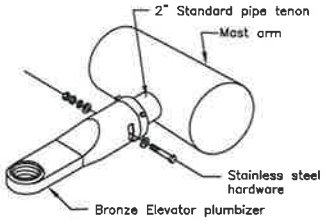

FRAMEWORK DESCRIPTION
Head no. ① offset L.O.D.
Head no. ② offset R.O.D.




TERMINAL COMPARTMENT WITH SLIP FITTER
(See notes 1.C. and 2)




CLAMP ASSEMBLY FOR FIELD INSTALLED PLUMBIZER MOUNT
(See notes 4 and 8)




ELEVATOR PLUMBIZER
(See note 1.A.)

## GENERAL NOTES

1. Install the signal faces in the plans as detailed on this sheet.
   - A. Use elevator plumbizers to install faces on mast arms and whenever 2" pipe tenons are specified. Install the plumbizer between the red and yellow signal indications.
   - B. Use signal frames to install signal faces on the sides of poles and on the tops of posts.
   - C. Use a second signal frame to install the third face when three side mounted signal faces are shown.
2. Furnish all signal frames with terminal compartments.
3. Install one terminal compartment on the side of the pole opposite the midpoint of the radius. Position the terminal compartment at the location where a line parallel to the long cord (P.C. to P.T.) of the radius is tangent to the pole.
4. Field drill the holes needed for attaching all signal hardware. Remove burrs after drilling. Treat the bare steel surfaces in accordance with AASHTO M36.
5. Provide back plates sized for the number of signal sections and mounting type, so that no light is visible between the back plate and the signal face.
6. Attach all back plates using stainless steel rivets with large flange button heads. Install 3/16" diameter by 9/16" long stainless steel rivets that provide at least 535 lb. and 675 lb. shear and tensile strengths, respectively. Bore out the mounting hole in the back plates and signal heads to the diameter recommended by the rivet manufacturer.
7. Before installing the machine screws that secure the visors, coat the threads with an anti-seizing compound.
8. Furnish clamp assemblies for field-installed plumbizer mounts with stainless steel hardware, AB-3007-L as manufactured by Pelco Products, Inc., or approved equivalent. The tenon shall be a 6" length of 2" rigid metal conduit with 1" tapered threads on one end. Drill the tenon to accept the plumbizer through bolt and debur all openings. Coat the tenon threads with Z.R.C. Galvilite, Crown-Gold Galvanizing Compound, or approved equivalent.

| REVISIONS | | |
|---|---|---|
| Date | Description | By |
| | | |

Sheet 1 of 2

State of Alaska
Department of Transportation & Public Facilities

TRAFFIC SIGNAL HARDWARE

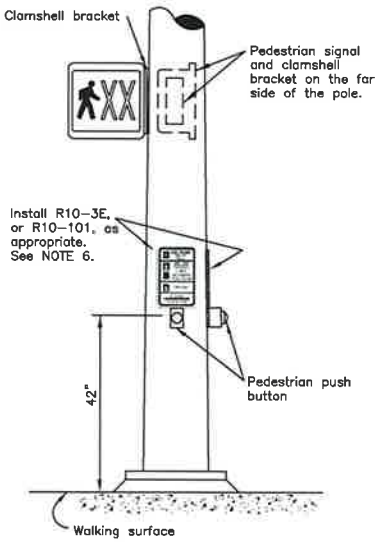
APPROVED
Date 5/31/12

T-30.11 Sheet 1

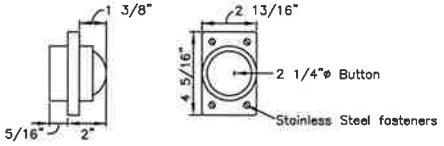
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE MWH Date 5.9.17

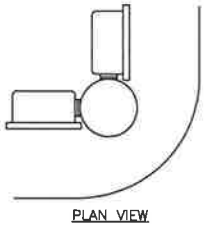
# T-30.11



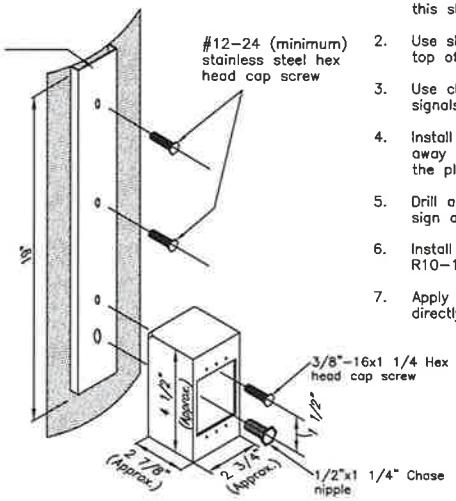

SIGNAL POLE MOUNTED PEDESTRIAN HARDWARE & SIGNAGE



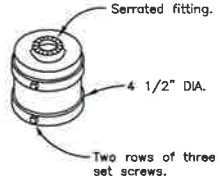

PEDESTRIAN PUSH BUTTON SWITCH



PLAN VIEW



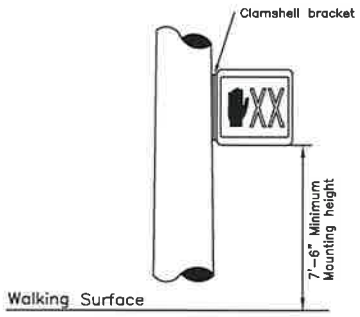

PEDESTRIAN PUSH BUTTON HOUSING



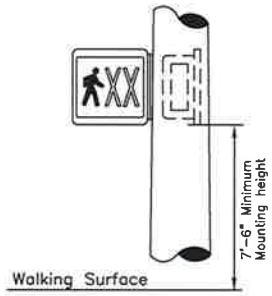

SLIP FITTER
(See note 2)

## GENERAL NOTES

1. Install the signal faces in the plans as detailed on this sheet.
2. Use slip fitters to install pedestrian signals on the top of posts.
3. Use clamshell brackets to install all pedestrian signals except those that are post-top mounted.
4. Install pedestrian signals on the side of poles away from traffic, unless indicated otherwise in the plans.
5. Drill and tap the pole for all mounting holes for sign and pedestrian push button housing.
6. Install R10-3E if a push button is installed. Install R10-101 if no push button is installed.
7. Apply caint-seize compound to cap screws tapped directly into pole.

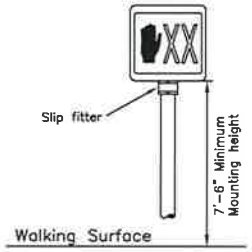



SW-1

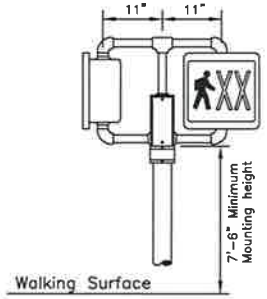



SW-2

SIDE MOUNTED SIGNALS




TW-1




TW-2

POST MOUNTED SIGNALS

| REVISIONS | | |
|---|---|---|
| Date | Description | By |
| 4/28/10 | Notes, signal, signage | KJS |

Sheet 2 of 2

State of Alaska
Department of Transportation & Public Facilities

TRAFFIC SIGNAL HARDWARE

APPROVED
Date 5/31/12

T-30.11 Sheet 2