

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
 SOUTHEAST REGION
 DESIGN AND CONSTRUCTION DIVISION

JUNEAU
 EGAN EXPRESWAY
 SAFETY IMPROVEMENTS
 GRADING, PAVING, DRAINAGE
 AND ILLUMINATION
 PROJECT NO. F-093-2(28)
 (70203)

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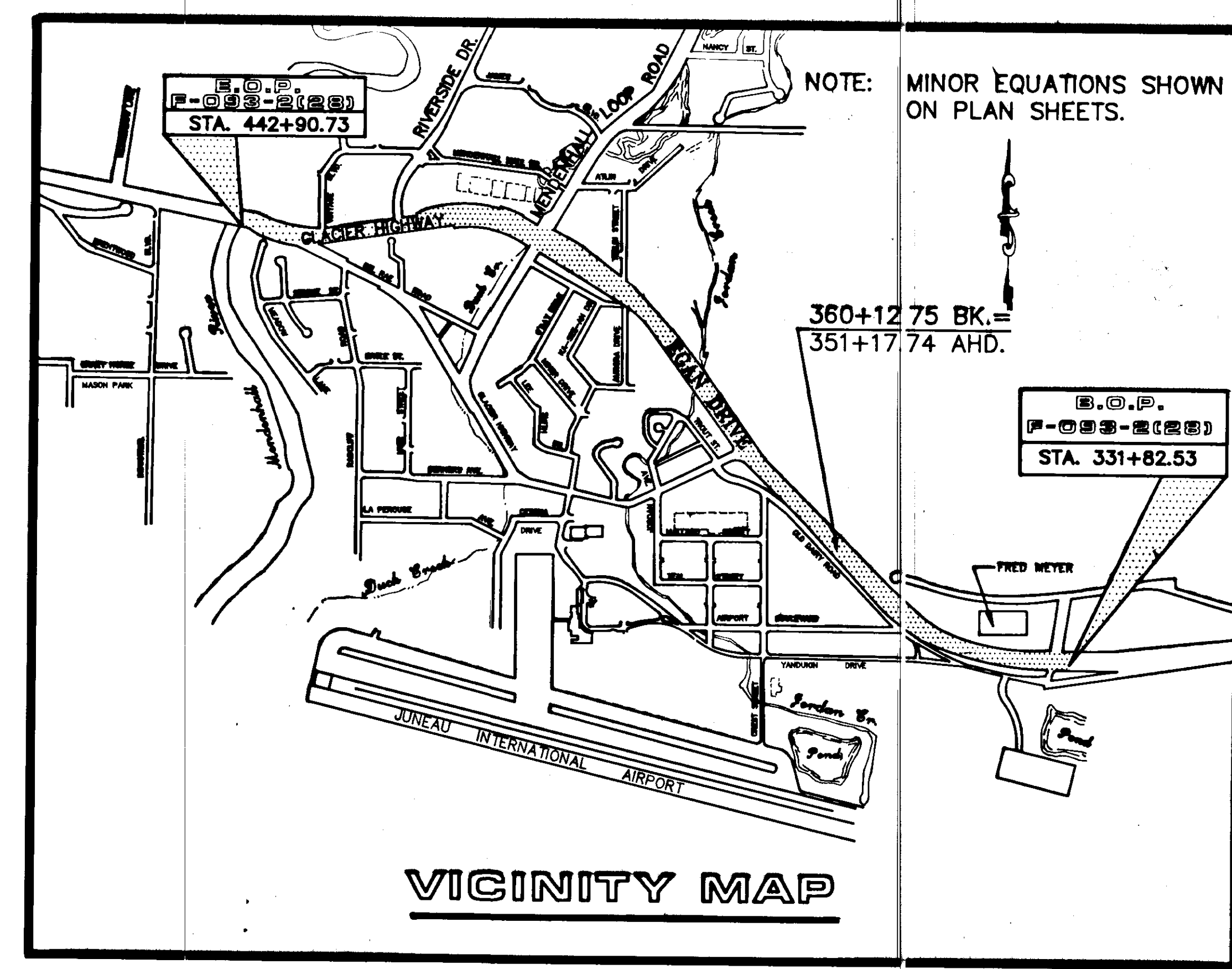
SOUTHEAST ALASKA REGION

PROJECT SUMMARY

PAVEMENT WIDTH = 16 FEET (LEFT TURN LANE ONLY)
 LENGTH OF PAVING = 1,243.62 = 0.24MI. (LEFT TURN LANE ONLY)
 LENGTH OF PROJECT = 9,918.25 = 1.88 MI.

DESIGN DESIGNATION

	EGAN DRIVE YANDUKIN DRIVE (B.O.P.) TO MCNUGGET	EGAN DRIVE MCNUGGET TO MENDENHALL LOOP ROAD	GLACIER HIGHWAY MENDENHALL LOOP ROAD TO MEADOW LANE (E.O.P.)
A.D.T. 1990 =	20,750	17,300	10,000
A.D.T. 2010 =	25,300	21,100	12,300
D.H.V. 13% =	3,289	2,743	1,600
V =	70 MPH	70 MPH	50 MPH
D =	40-60	40-60	40-60
%T =	4%	4%	4%
T.I. E.A.L. =	N/A	9.0	N/A



VICINITY MAP

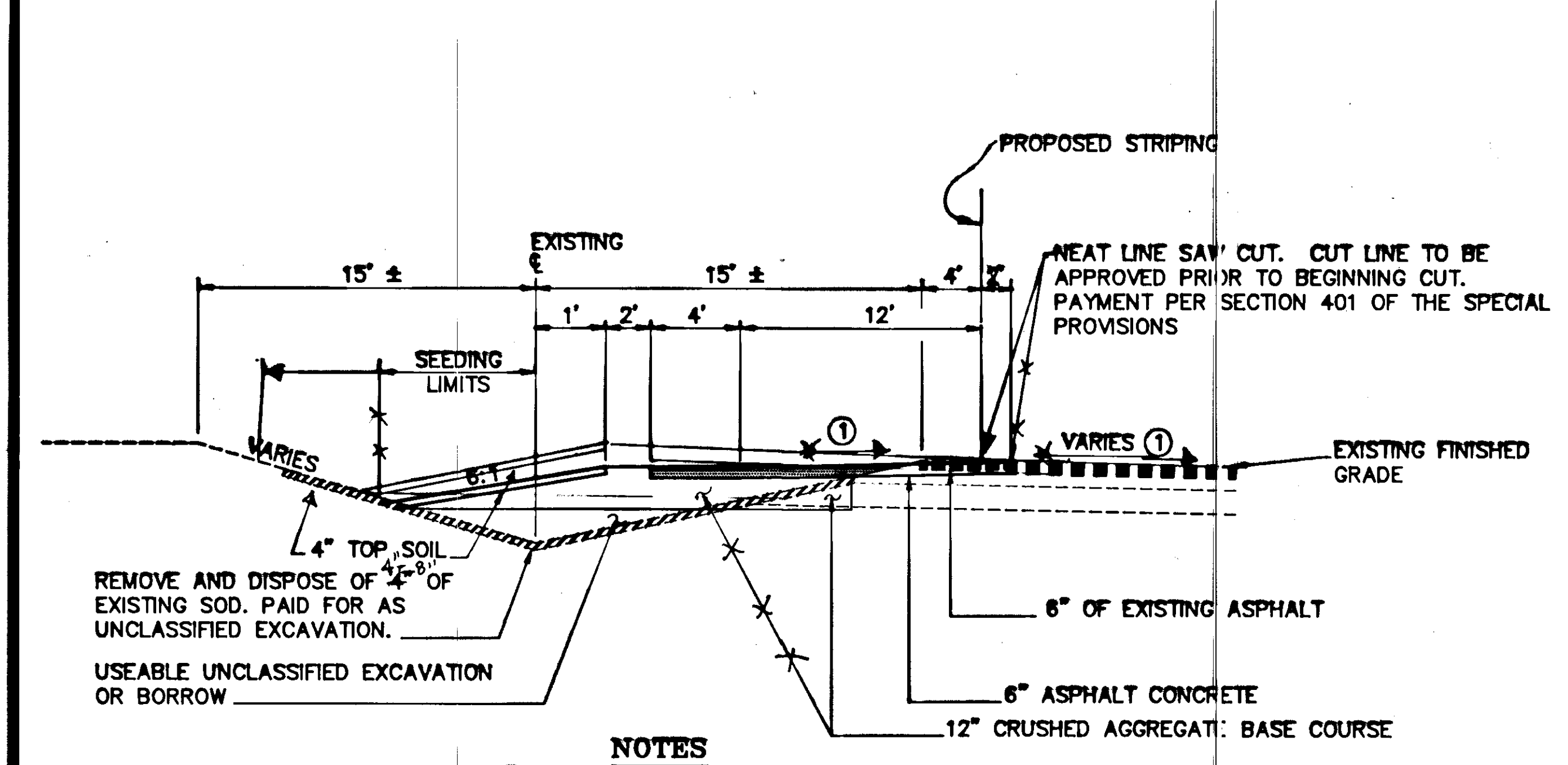
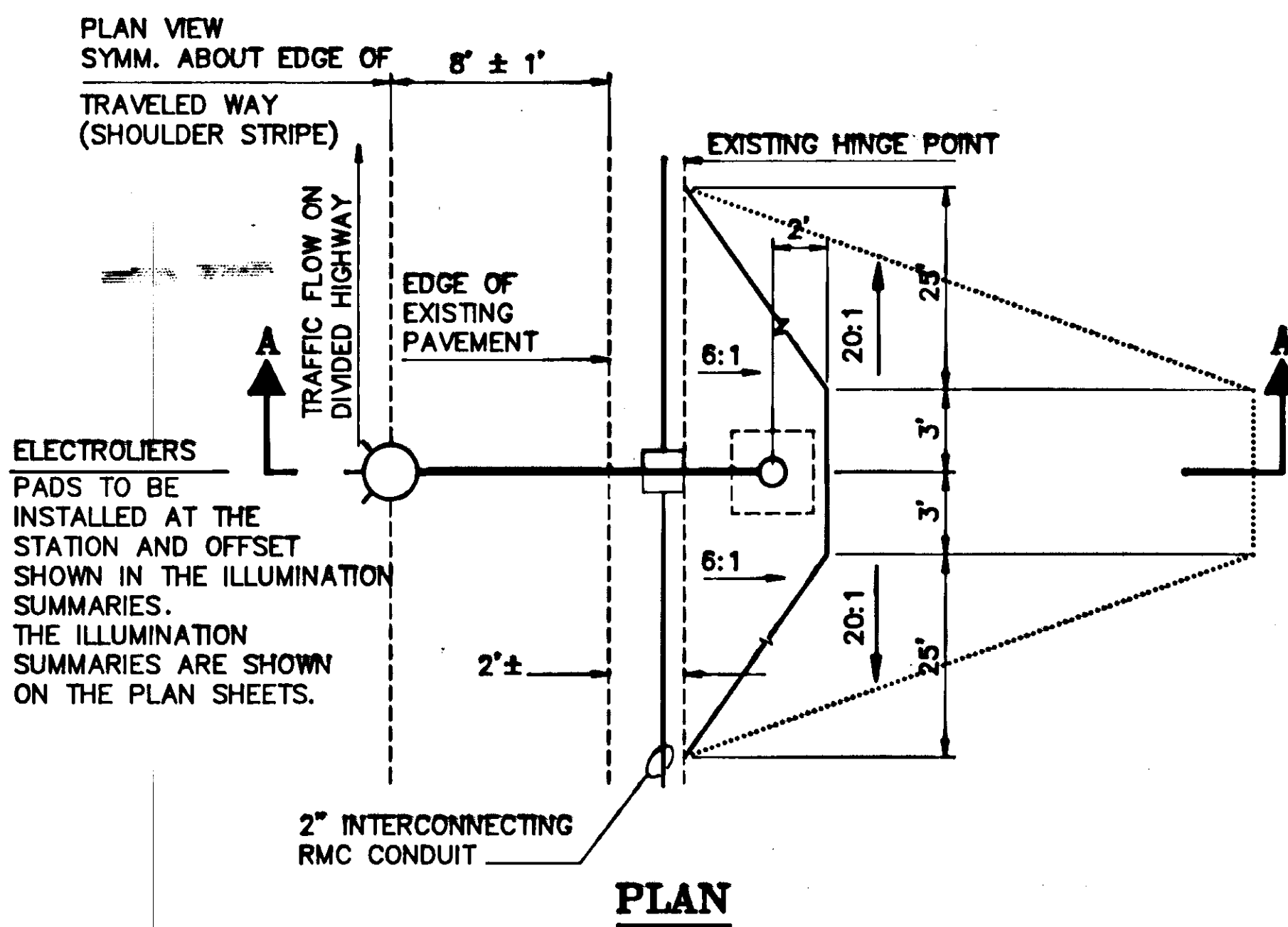
The following Standard Drawings apply to this project :
 A-1, C-01.03, C-03.01, D-01.01, D-04.10, D-05.10, D-24.00, D-27.01,
 D-42.01, D-44.01, F-01.01, I-20.01, L-03.01, L-20.01, L-23.00,
 L-30.01, S-05.00, T-21.01, T-22.01, T-32.00

"AS-BUILT PLANS"
 FOSCO INC.
 SOC KREUZENSTEIN P.O.J. E. NG.
 8-7-1991 to 7-27-1992

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN SECTION

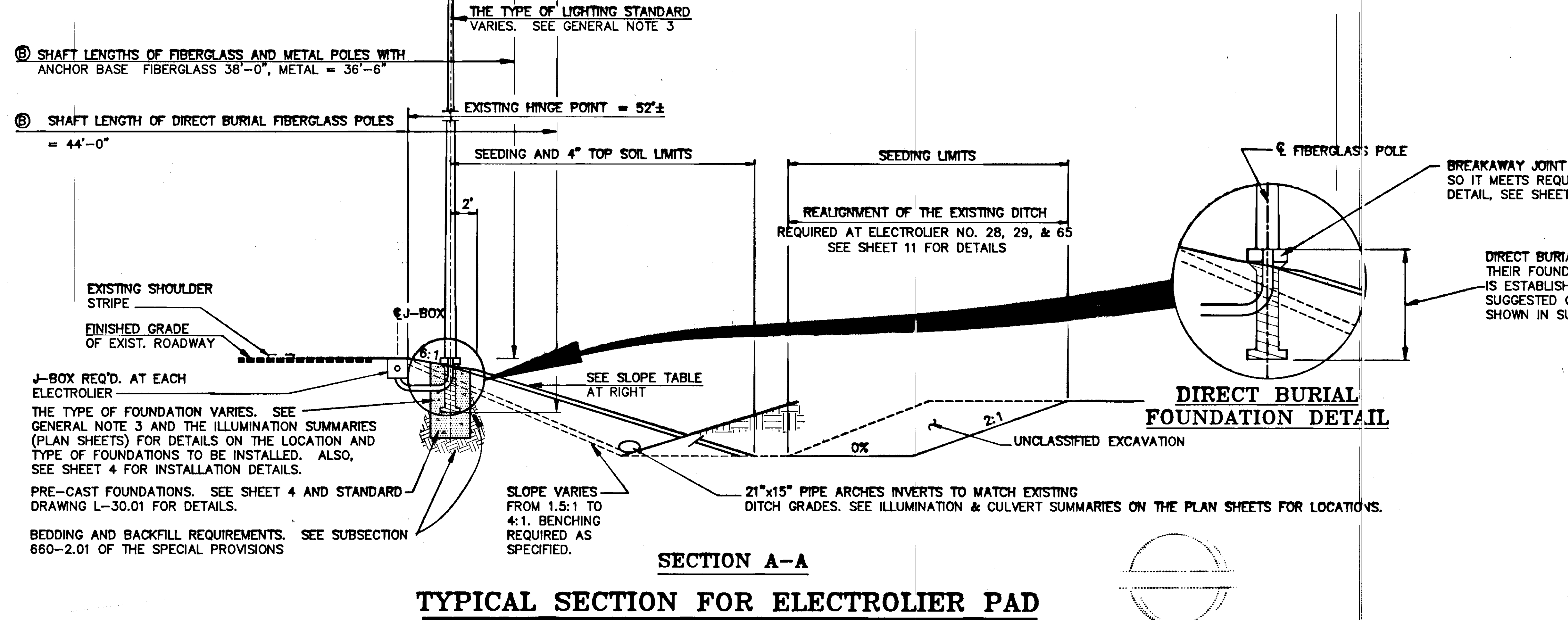
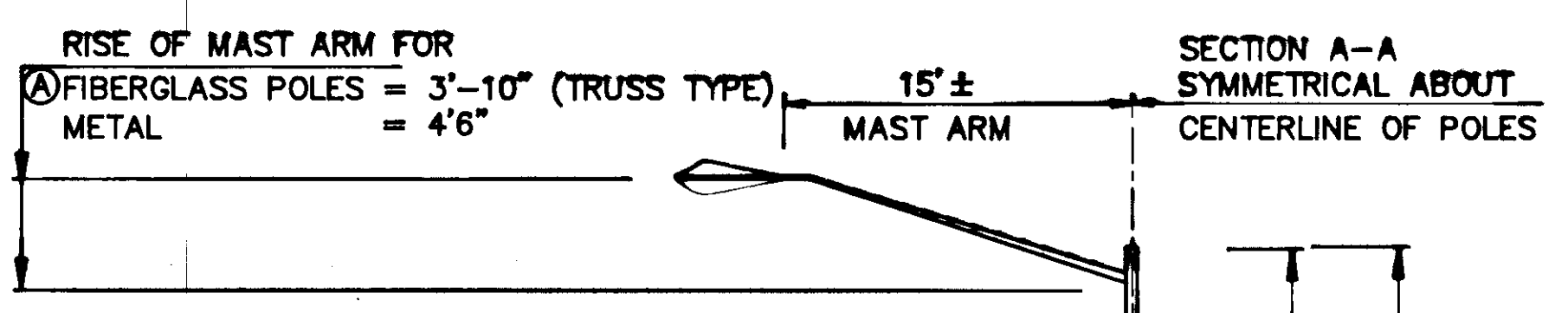
APPROVED _____ Date _____
 Engineering Manager
 APPROVED _____ Date _____
 Director, S.E. Region Design & Construction

ENGINEER'S SEAL 	PROJECT NUMBER: 70203	ENGINEER'S SEAL
	DATE:	
	SHEET 1 OF 14	



GENERAL NOTES :

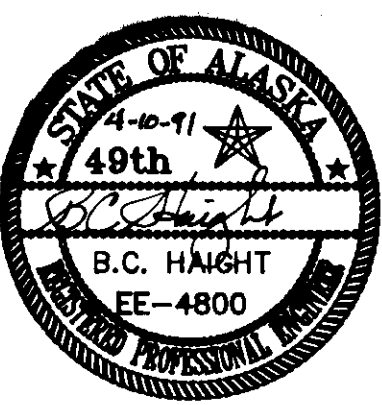
- DESIGN DATA, THE ILLUMINATION SYSTEM INSTALLED UNDER THIS PROJECT IS DESIGNED TO MEET THE FOLLOWING AASHTO REQUIREMENTS:
 MOUNTING HEIGHT - 40 FT.
 ROADWAY CLASSIFICATION - EXPRESSWAY RESIDENTIAL
 AVERAGE ILLUMINANCE - 0.8 FOOT CANDLES
 UNIFORMITY RATIO - 3:1 (avg./min.)
 BREAKAWAY STANDARDS - SECTION 2 OF THE 1985 AASHTO SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
 - PIPE ARCH AND PIPE GAGES FOR THIS PROJECT SHALL BE AS FOLLOWS :
 ALUMINUM = 0.060
 STEEL = 0.064
 - THE FOLLOWING TYPE OF ELECTROLIERS AND FOUNDATIONS SHALL BE INSTALLED ON THIS PROJECT:
- | STA. TO STA. | OFFSET LT. RT. | TYPE OF LIGHTING STANDARD | FOUNDATION TYPE |
|----------------------|----------------|--------------------------------|---------------------|
| 340+00 TO 355+00 AHD | X | FIBERGLASS (FG) | PRE-CAST FIBERGLASS |
| 357+00 AHD TO 390+00 | X | DIRECT BURIAL, FIBERGLASS (DB) | PRE-CAST FIBERGLASS |
| 395+00 TO 404+00 | X | FIBERGLASS (FG) | PRE-CAST FIBERGLASS |
| 338+00 TO 404+00 | X | METAL (M) | PRE-CAST |
- THE SEMI-TANGENTS OF THE HORIZONTAL CURVES SHOWN ON THESE PLAN SHEETS ARE NOT PARALLEL TO THE BACK AND FORWARD TANGENTS. THE P.C. AND P.T. STATIONS HAVE BEEN HELD FOR R.O.W. PURPOSES.
 - EXISTING SIGNS ARE BANNED TO THE EXISTING ELECTROLIERS AND SHALL BE RELOCATED TO THE NEW ELECTROLIERS. THIS WORK IS CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK THAT APPEAR IN THE BID SCHEDULE. THERE ARE 4 SIGNS TO BE RELOCATED ON ELECTROLIER NUMBER 43.



THE GENERAL NOTES FOR THIS PROJECT ARE CONTINUED ON SHEET NO. 4.

SLOPE TABLE

STATION	LT.	RT.	SLOPE
B.O.P.	361+50	X	3.25:1
367+00	388+00	X	4:1
396+50	402+50	X	4:1
B.O.P.	352+00	X	3.25:1
352+00	359+00	X	4:1
364+00	372+00	X	3.25:1
372+00	404+00	X	4:1



NOTE: DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS.

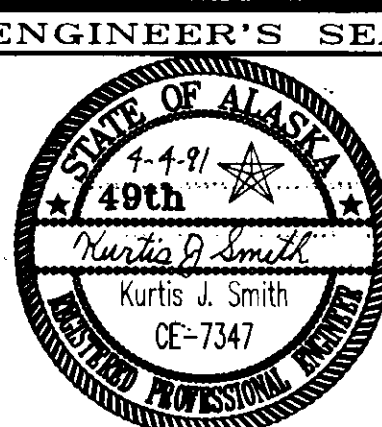
RECORD OF REVISIONS

NO.	DATE	DESCRIPTION OF CHANGE

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 JUNEAU EGAN EXPRESSWAY
 SAFETY IMPROVEMENTS
TYPICAL SECTION OF IMPROVEMENTS

ALASKA
 DESIGNED BY: E. CAVAGNARO
 DRAWN BY: AutoCAD / BWB
 CHECKED BY: K. SMITH
 PROJECT No. 70203
 DATE:
 SHEET 2 OF 14



ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
120(1)	DBE ADJUSTMENT %	C.S.	ALL REQ'D
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS, 3 LUMINAIRES, 3 LUMINAIRE BASES, 4 END SECTIONS, 250 ²⁵⁷ OF FENCE	L.S.	ALL REQ'D
202(2)	REMOVAL OF PAVEMENT LEFT TURN LANES= 490 ⁵⁶⁴ SY LOAD CENTER= 10 ²⁰ SY	S.Y.	500 584
203(3)	UNCLASSIFIED EXCAVATION LEFT TURN LANES= 525 CY ELECTROLIER PADS= 550 CY SLOPE FLATTENING= 25 CY	C.Y.	1,110 1,075
203(6)	BORROW, TYPE A LEFT TURN LANES= 1,500 TONS ELECTROLIER PADS= 2,500 TONS SLOPE FLATTENING= 3,000 TONS	1,497 2,691 TON	7,688 7,000
301(1)	CRUSHED AGGREGATE BASE COURSE	TON	2,053 1,500
401(1)	ASPHALT CONCRETE, TYPE I	TON	738 930
401(2)	AC-5 ASPHALT CEMENT	TON	44 57
603(10)	42X29 INCH CORRUGATED ALUM. PIPE ARCH	L.F.	30
603(15)	ELBOW (42X29 INCH CORRUGATED ALUM PIPE ARCH)	EACH	2
603(17-18)	18 INCH PIPE	L.F.	170 160
603(17-24)	24 INCH PIPE	L.F.	360 300
603(19)	PIPE ARCH (21X15)	L.F.	650 660
604(5B)	INLET, TYPE B	EACH	2
604(5C)	INLET, TYPE C (1-18 INCH, 1-24 INCH)	EACH	2
604(6)	RELOCATE INLET	EACH	2
607(3)	CHAIN LINK FENCE (6 FT.)	L.F.	480 700
609(2)	CURB & GUTTER, TYPE MOUNTABLE	L.F.	201 200
614(3)	ADJUST EXISTING MONUMENTS & CASES	EACH	0 1
618(1)	SEEDING	ACRE	1.85 1.7
618(3)	WATER FOR SEEDING	M.GAL	0 10
620(1)	TOPSOIL	S.Y.	7,060 8,100
640(1)	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQ'D.
641(1)	TEMPORARY EROSION AND POLLUTION CONTROL	C.S.	ALL REQ'D.
642(1)	CONSTRUCTION SURVEYING	L.S.	ALL REQ'D.

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
643(2)	TRAFFIC MAINTENANCE	L.S.	ALL REQ'D.
643(3)	PERMANENT CONSTRUCTION SIGNING	CAL.DAY	152 180
643(4)	CONSTRUCTION SIGNS	EACH PER/DAY	596 3,150
643(5)	TYPE II BARRICADE	EACH PER/DAY	134 160
643(7)	TRAFFIC CONE	EACH PER/DAY	5448 17,000
643(15)	FLAGGING	MAN.HRS	105.5 406
660(1)	TRAFFIC SIGNAL SYSTEM COMPLETE	L.S.	ALL REQ'D.
660(20)	METAL ELECTROLIERS, W/ ANCHOR BASES	EACH	35
660(21)	FIBERGLASS ELECTROLIERS, W/ANCHOR BASES	EACH	16
660(22)	FIBERGLASS ELECTROLIERS, W/ DIRECT BURIAL FOUNDATIONS	EACH	14
660(23)	RECONSTRUCTION OF EXISTING ELECTROLIERS W/SLIP BASES POURED IN PLACE FOUNDATIONS	EACH	1
660(24)	ELECTROLIER FOUNDATION BEDDING	EACH	14
661(2)	LOAD CENTER, TYPE 2	EACH	4
670(1)	PAINTED TRAFFIC MARKINGS 8" WHITE=400'L.F. 4" WHITE=250L.F. LEFT TURN ARROWS=2 ONLY = 2	L.S.	ALL REQ'D.
670(6)	PREFORMED TRAFFIC MARKINGS 8" WHITE=600'L.F. 4" WHITE=1250L.F. LEFT TURN ARROWS=4 ONLY = 4	L.S.	ALL REQ'D.

BASIS OF ESTIMATE

ITEM NO.	DESCRIPTION	EST. FACTOR
203(6)	BORROW, TYPE "A"	1.85 TONS/CY
301(1)	CRUSHED AGGREGATE BASE COURSE	1.92 TONS/CY
401(1)	ASPHALT CONCRETE, TYPE I	116#/S.Y./IN. DEPTH
401(2)	AC-5 ASPHALT CEMENT	6.0% OF 401(1) AND -6.5% 401(1A)
618(1)	SEEDING	SEE SECT 618 OF THE SPECIAL PROVISIONS FOR ESTIMATING FACTORS

DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
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SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU

JUNEAU EGAN EXPRESSWAY
SAFETY IMPROVEMENTS
F-093-2(28)

ESTIMATE OF QUANTITIES

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ALASKA

DESIGNED BY:
E. CAVAGNARO

DRAWN BY:
AUTOCADD/CSA

CHECKED BY:
K. SMITH

PROJECT NO.
F-093-2(28)

DATE:

SHEET 3 OF 14

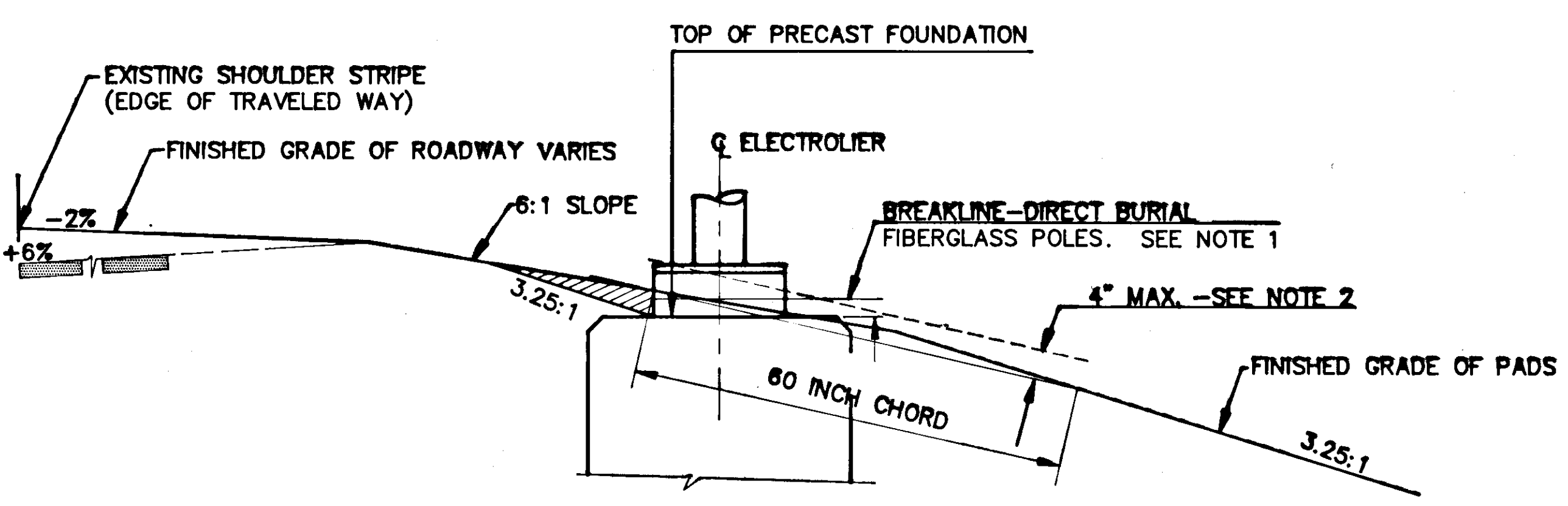


GENERAL NOTES (CONT. FROM SHT. 2)

6. JORDAN CREEK, DUCK CREEK, AND THE FOLLOWING EXISTING HIGHWAY DITCHES ARE COVERED BY THE DEPARTMENTS FISH AND GAME PERMIT. WORKING CONDITIONS IN THESE AREAS ARE COVERED IN SUBSECTION 107-1.09 OF THE SPECIAL PROVISIONS.

EXISTING HIGHWAY DITCHES
 B.O.P. TO "0" 355+00 AHD. RT.
 B.O.P. TO "0" 340+00 LT.
 "0" 385+00 TO "0" 394+00 LT.

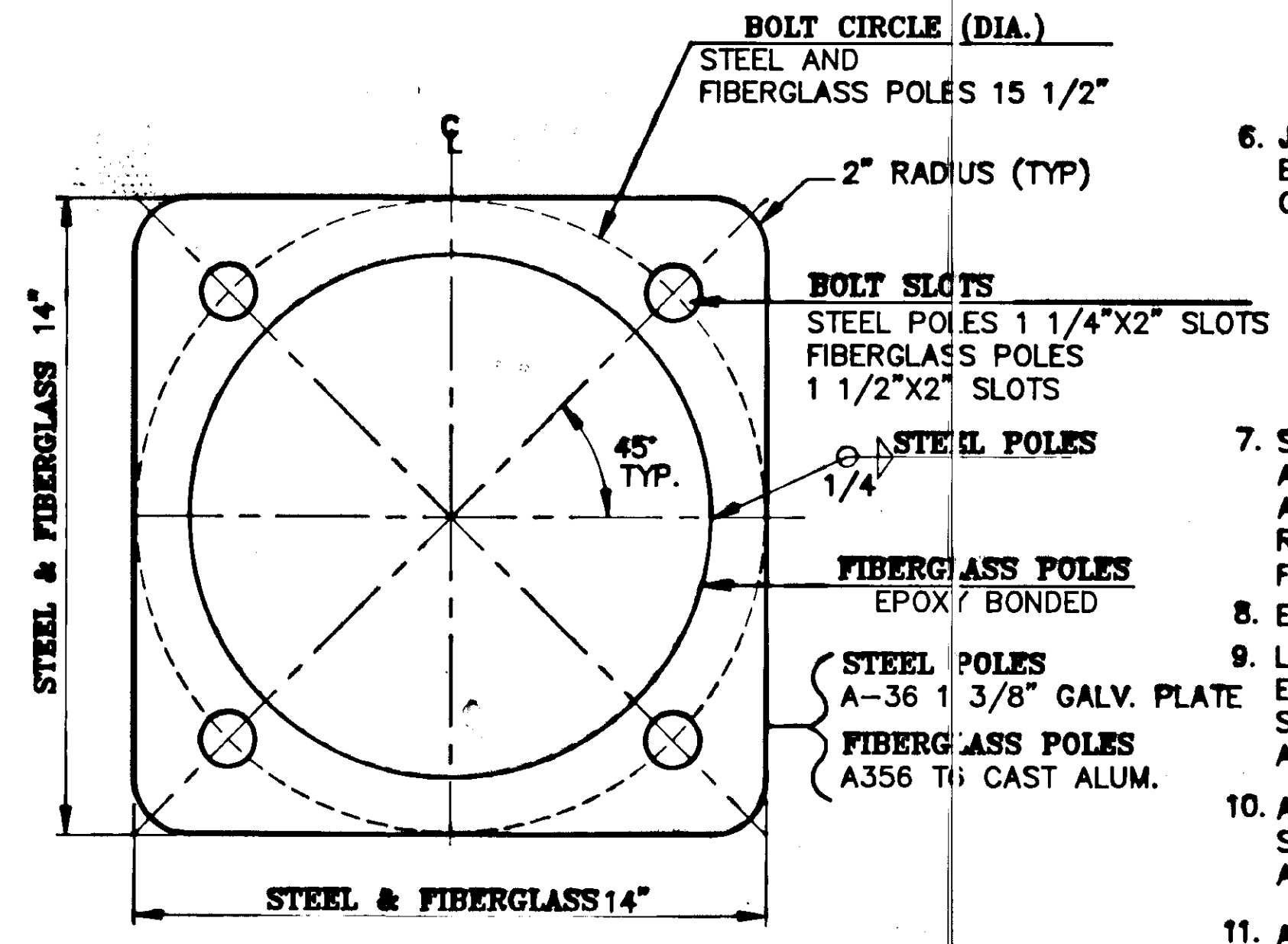
7. STATIONS FOR THE ELECTROLIERS ARE NOTED IN THE ILLUMINATION SUMMARIES AND ARE SUBJECT TO MINOR REVISION (± 5 FEET) WITH THE ENGINEER'S APPROVAL. STATION ADJUSTMENTS BEYOND 5 FEET OR ADJUSTMENT TO THE STATED OFFSET FROM CENTERLINE REQUIRE THE DESIGN ENGINEER'S APPROVAL PRIOR TO BEGINNING INSTALLATION OF THE FOUNDATION(S).
8. EACH ELECTROLIER SHALL BE DESIGNED TO WITHSTAND AN AASHTO 100 MPH WIND LOAD.
9. LUMINAIRES SHALL BE A ANSI-IES (AMERICAN NATIONAL STANDARD INSTITUTE-ILLUMINATION ENGINEERING STANDARDS) MEDIUM SEMI CUTOFF TYPE 3 WITH 250 WATT HIGH PRESSURE SODIUM LAMPS AND A FILTERED OPTICAL ASSEMBLY. LUMINAIRE VOLTAGES, PER CIRCUIT, ARE SHOWN IN THE LOAD CENTER SUMMARY BELOW.
10. ALL METAL MAST ARMS SHALL BE 15 FEET LONG, SEE STD. DWG. L-03.01 FOR DETAILS ON STEEL MAST ARMS. DETAILS FOR THE FIBERGLASS POLES AND ALUMINUM MAST ARMS ARE NOTED IN SUBSECTION 660-2.04 OF THE SPECIAL PROVISIONS.
11. ALL JUNCTION BOXES SHALL BE TYPE ONE. SEE STANDARD DRAWING L-23.00 FOR DETAILS.
12. ALL CONDUIT SHALL BE TWO INCH GALVANIZED RIGID STEEL CONDUIT UNLESS OTHERWISE NOTED ON THE PLANS.
13. THE CIRCUIT NOMENCLATURE AND CONDUCTOR SIZE VARY AND ARE SHOWN ON SHEET 5. THE CIRCUIT NOMENCLATURE SHOWN ON THAT SHEET IS TO BE USED IN LABELING THE CIRCUITS AND LOAD CENTERS.
14. ILLUMINATION LOAD CENTER DETAILS ARE SHOWN BELOW AND ON STANDARD DRAWING L-20.01.
15. PRE-CAST FOUNDATIONS MAY BE TRANSPORTED, USING TWO OR MORE FEMALE CONCRETE ANCHORS, TWO ONE INCH BOLTS, AND A DEVICE THAT SPREADS LOAD EVENLY BETWEEN TWO ANCHORS.
16. PILE FOUNDATIONS MAY BE SUBSTITUTED WITH WRITTEN APPROVAL.
17. THE EXISTING BIKE PATH SHALL NOT BE USED AS A WORK PLATFORM OR ACCESS ROAD TO OTHER WORK SITES WITHOUT WRITTEN APPROVAL. SEE GENERAL TRAFFIC CONTROL NOTES AND SUBSECTION 105-1.12 OF THE SPECIAL PROVISIONS FOR MORE DETAILS.



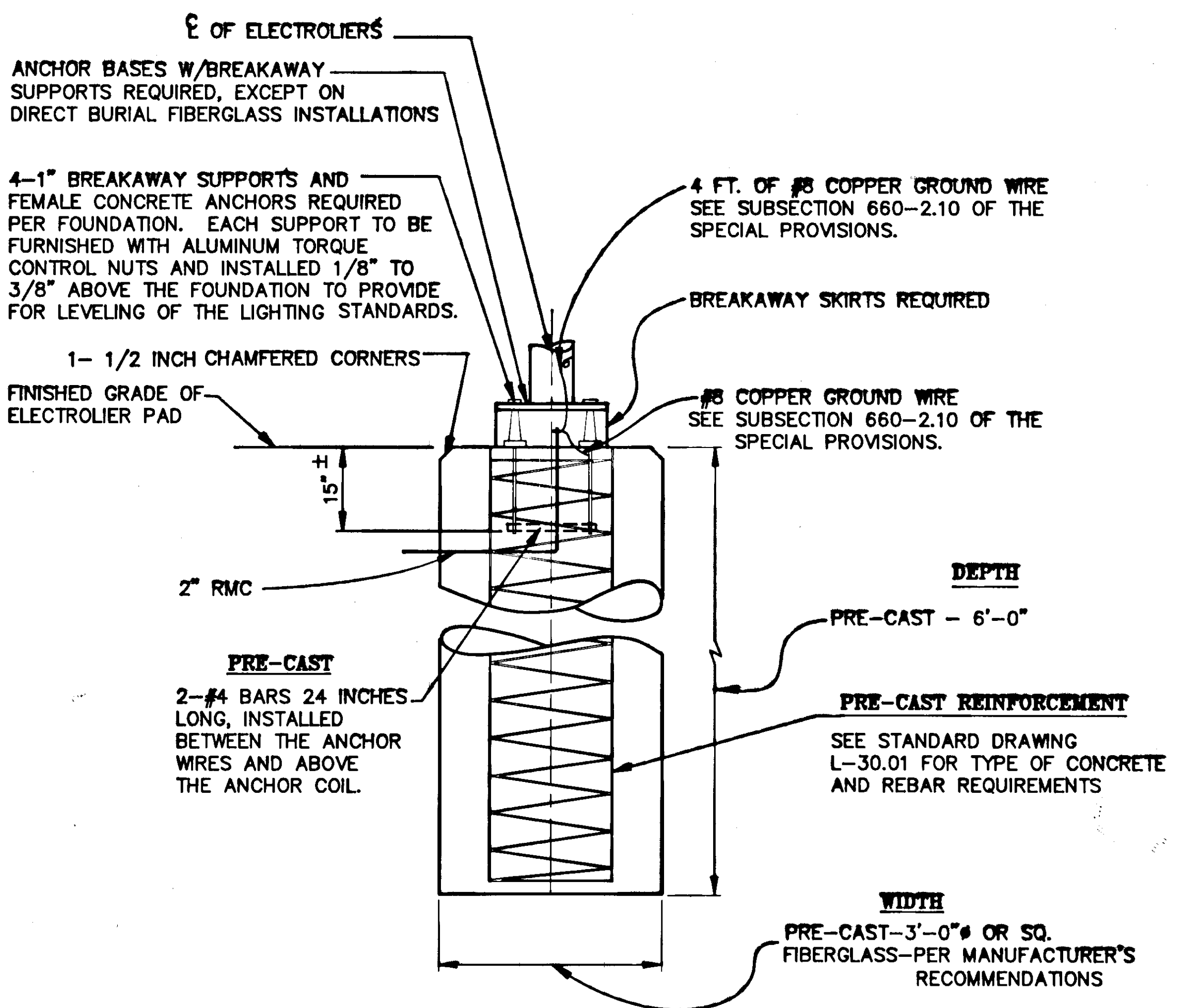
FOUNDATION INSTALLATION DETAIL

NOTES

1. THE BREAKAWAY JOINT ON DIRECT BURIAL FIBERGLASS POLES SHALL BE INSTALLED ONE INCH ABOVE THE FINISHED GRADE OF THE PAD.
2. NON BREAKAWAY PORTIONS OF PRE-CAST, DIRECT BURIED FIBERGLASS AND EXISTING FOUNDATIONS SHALL NOT PROTRUDE MORE THAN 4 INCHES ABOVE ANY 60 INCH CHORD STARTING AND ENDING ON THE FINISHED GRADE OF THE ELECTROLIER PADS.
3. INDICATES EMBANKMENT MATERIAL TO BE REMOVED AROUND BREAKAWAY SKIRTS.



ANCHOR BASE DETAIL

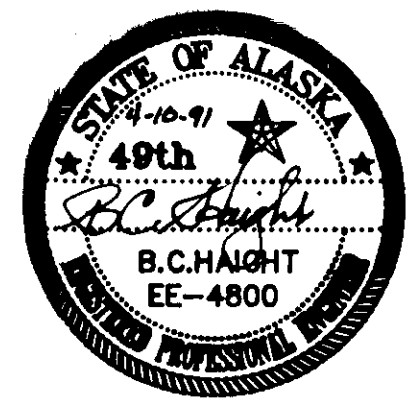


FOUNDATION DETAIL

LOAD CENTER SUMMARY										
LOAD CENTER NO.	STATION	OFFSET		TYPE OF SERVICE	SERVICE RATING		LUMINAIRE VOLTAGES	SERVICE BREAKER RATING/AMPS	CIRCUIT BREAKER RATING/AMPS	CONTACTOR RATING/AMPS
		LT.	RT.		AMPS	VOLTS				
LC-1	"0" 352+00	138'	135'	WOOD POLE W/ UNDERGROUND SERVICE (X)	100	240/480	480	100	CKT. C 15 CKT. D 15	100
LC-2	"0" 353+08		115'	WOOD POLE W/ UNDERGROUND SERVICE (X)	100	240/480	480	100	EKT. E 15 CKT. F 15	100
LC-3	"0" 376+45		99'	WOOD POLE W/ UNDERGROUND SERVICE (X)	100	240/480	480	100	CKT. G 15 CKT. H 15	100
LC-4	"0" 393+00	100'		* WOOD POLE W/ UNDERGROUND SERVICE (X)	100	240/480	480	100	CKT. I 15	100
LC-5	"0" 409+70	85'		EXISTING LOAD CENTER	100 (EXIST)	120/240 (EXIST)	240 (EXIST)	100 (EXIST)	CKT. B ① CKT. A ②	N/A

- ① EXISTING 30 AMP BREAKER TO REMAIN IN SERVICE. ② REPLACE EXISTING BREAKER WITH ONE RATED FOR 20 AMPS.
 (X) POLE MOUNTED W/UNDERGROUND SERVICE FROM NEAREST OVERHEAD UTILITY POLE. LOAD CENTER POLES SHALL BE 13 FOOT LONG 8X8 POSTS, EMBEDDED FIVE FEET AND TREATED IN ACCORDANCE WITH SECTION 714 OF THE STANDARD SPECIFICATIONS.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



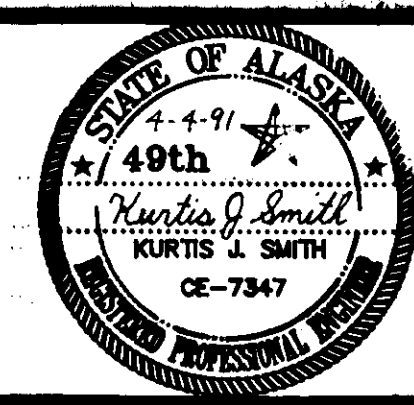
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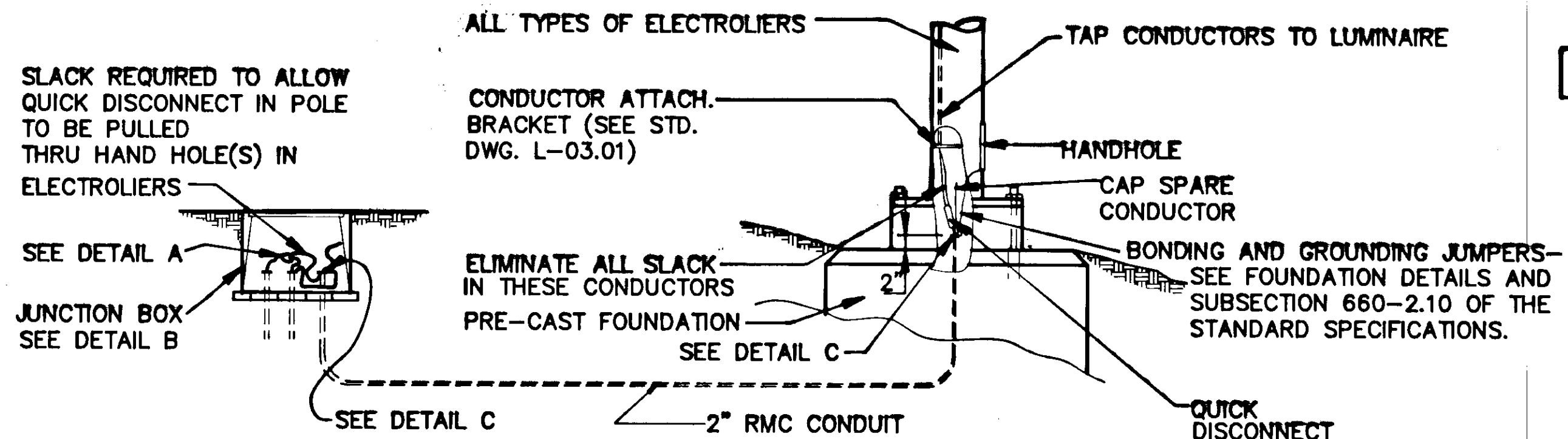
STATE OF ALASKA
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 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 JUNEAU EGAN EXPRESSWAY
 SAFETY IMPROVEMENTS
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ILLUMINATION DETAILS

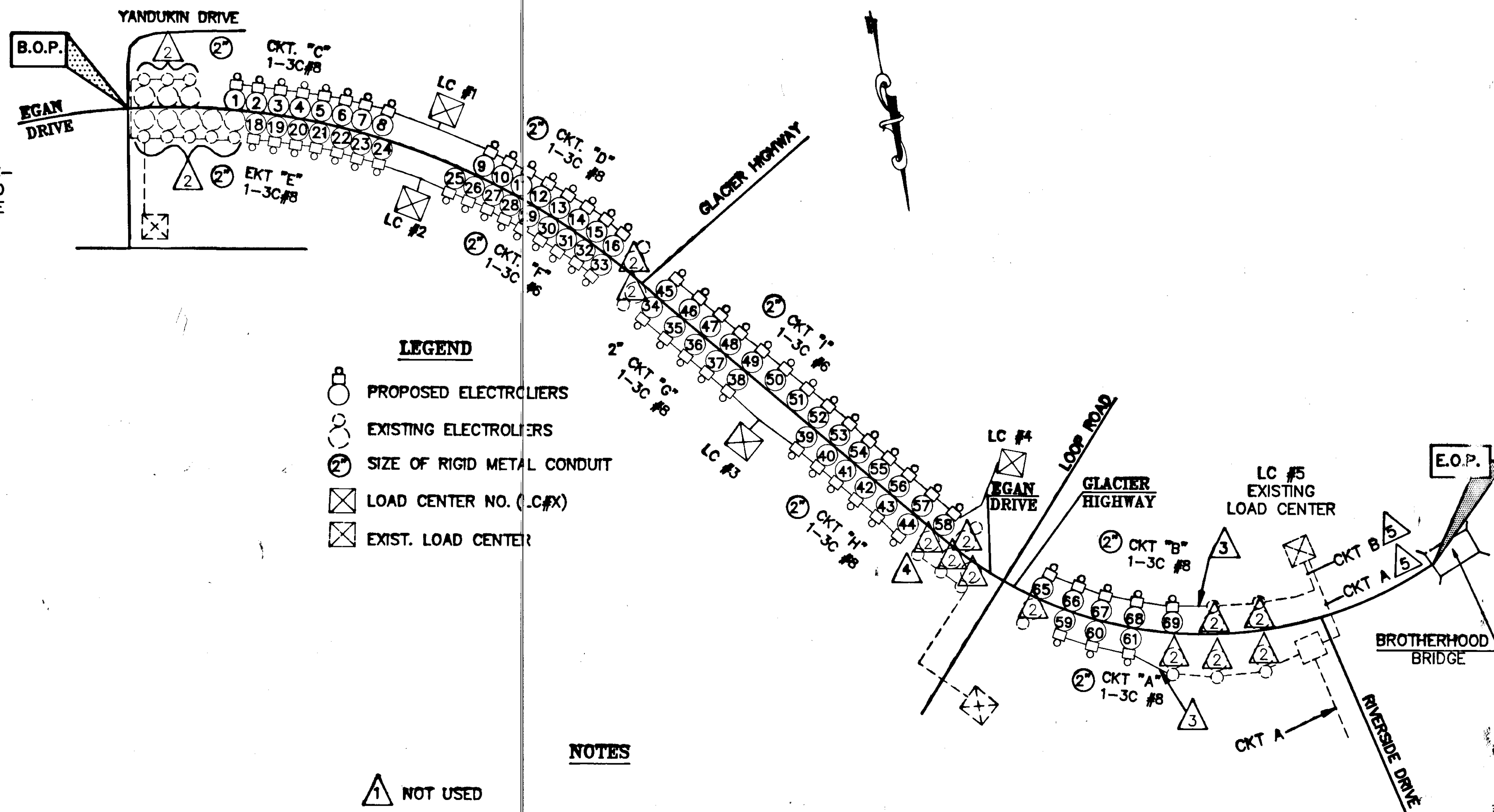
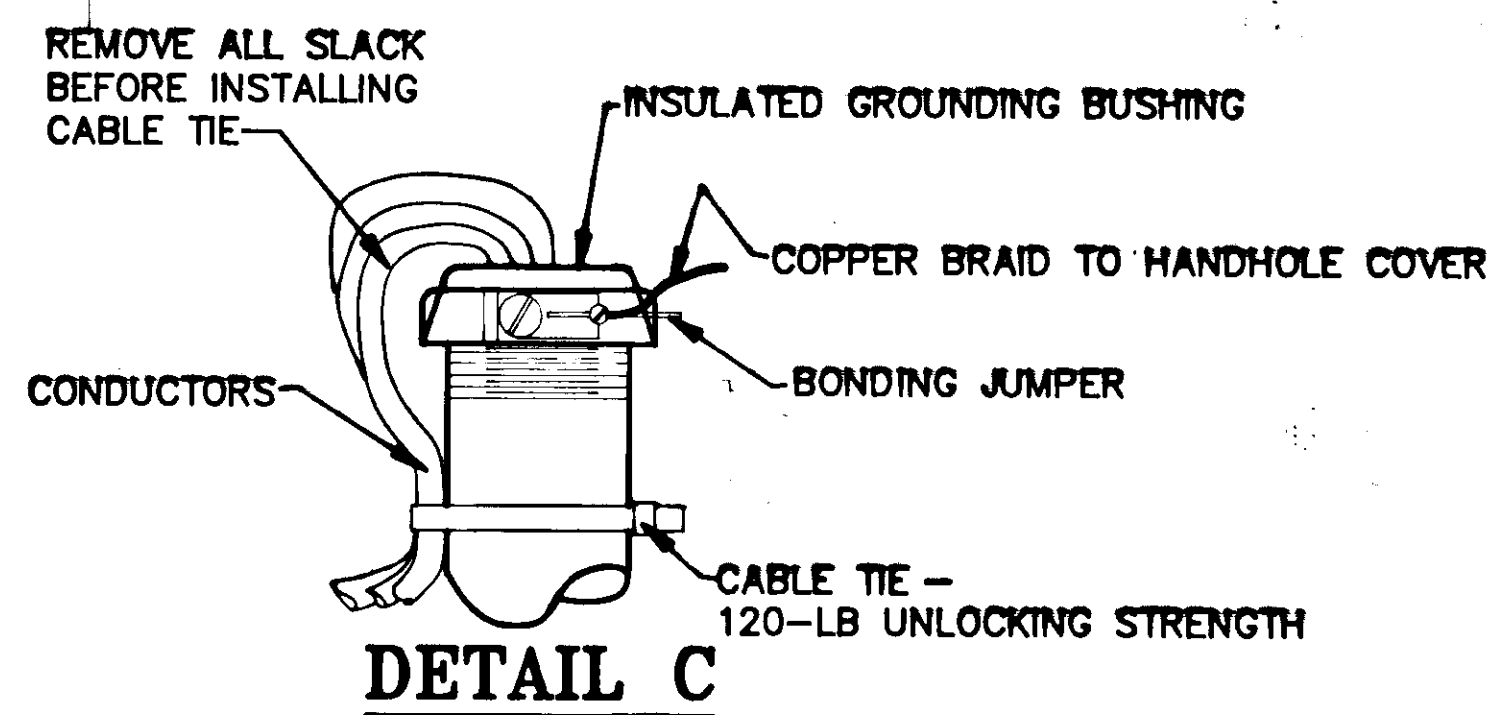
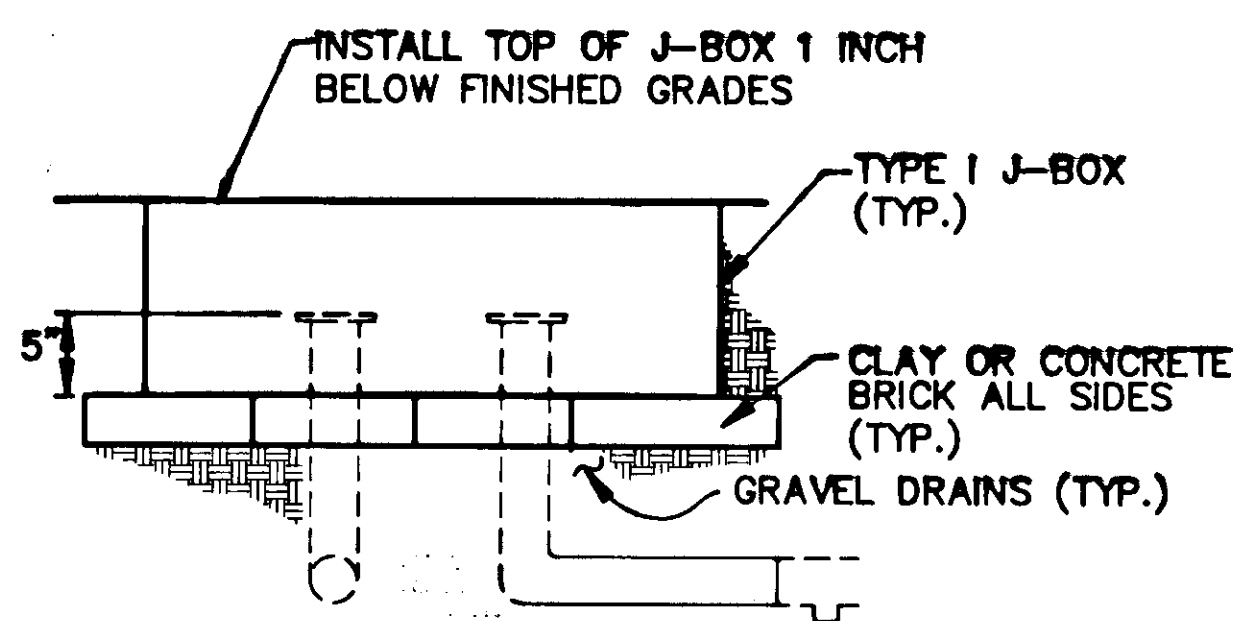
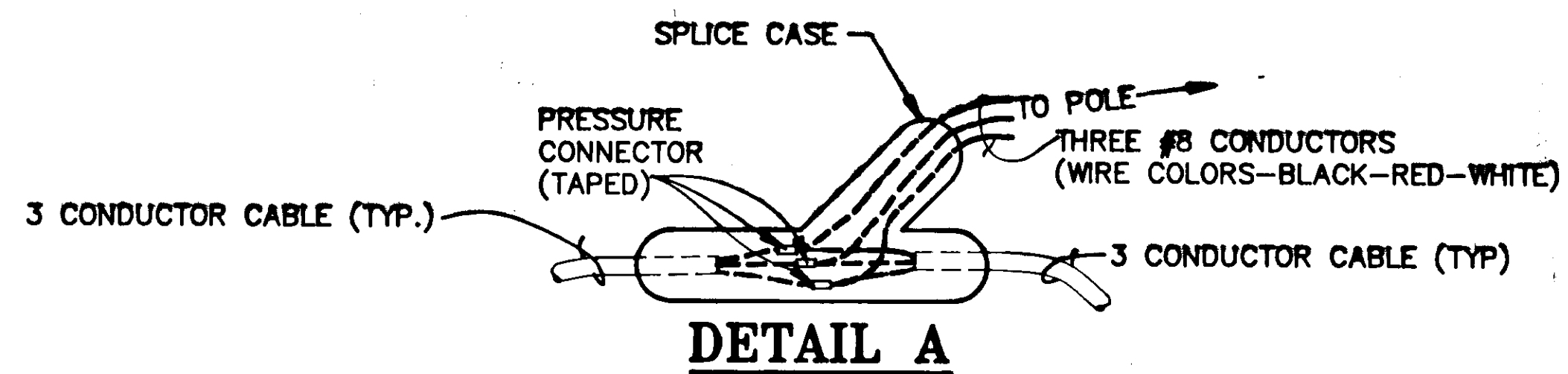
ALASKA
 DESIGNED BY:
 E. CAVAGNARO
 DRAWN BY:
 AUTOCADD / C. Anderson
 CHECKED BY:
 K. SMITH

PROJECT NO.
 F-093-2(28)
 DATE:
 SHEET 4 OF 14





LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS



- LEGEND**
- PROPOSED ELECTROLIERS
 - EXISTING ELECTROLIERS
 - ② SIZE OF RIGID METAL CONDUIT
 - ⊠ LOAD CENTER NO. (LC#X)
 - ⊠ EXIST. LOAD CENTER

- NOTES**
- 1 NOT USED
 - 2 THESE EXISTING ELECTROLIERS ARE TO REMAIN IN SERVICE THROUGHOUT CONSTRUCTION.
 - 3 TIE THE PROPOSED CIRCUITS TO THE EXISTING CIRCUIT.
 - 4 CUT AND CAP THE EXISTING CIRCUIT.
 - 5 LABEL CIRCUITRY FROM LC #5 TO ELECTROLIERS 65 AND 59, PAYMENT INCIDENTAL TO OTHER ITEMS OF WORK SHOWN IN THE BID SCHEDULE.

CIRCUIT MAP DETAIL

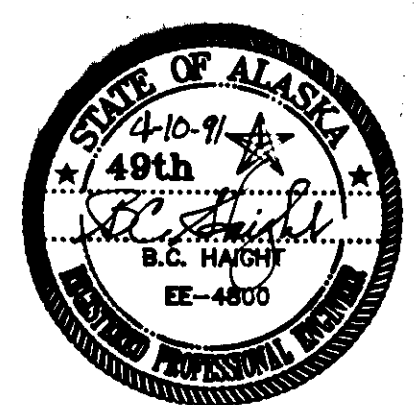
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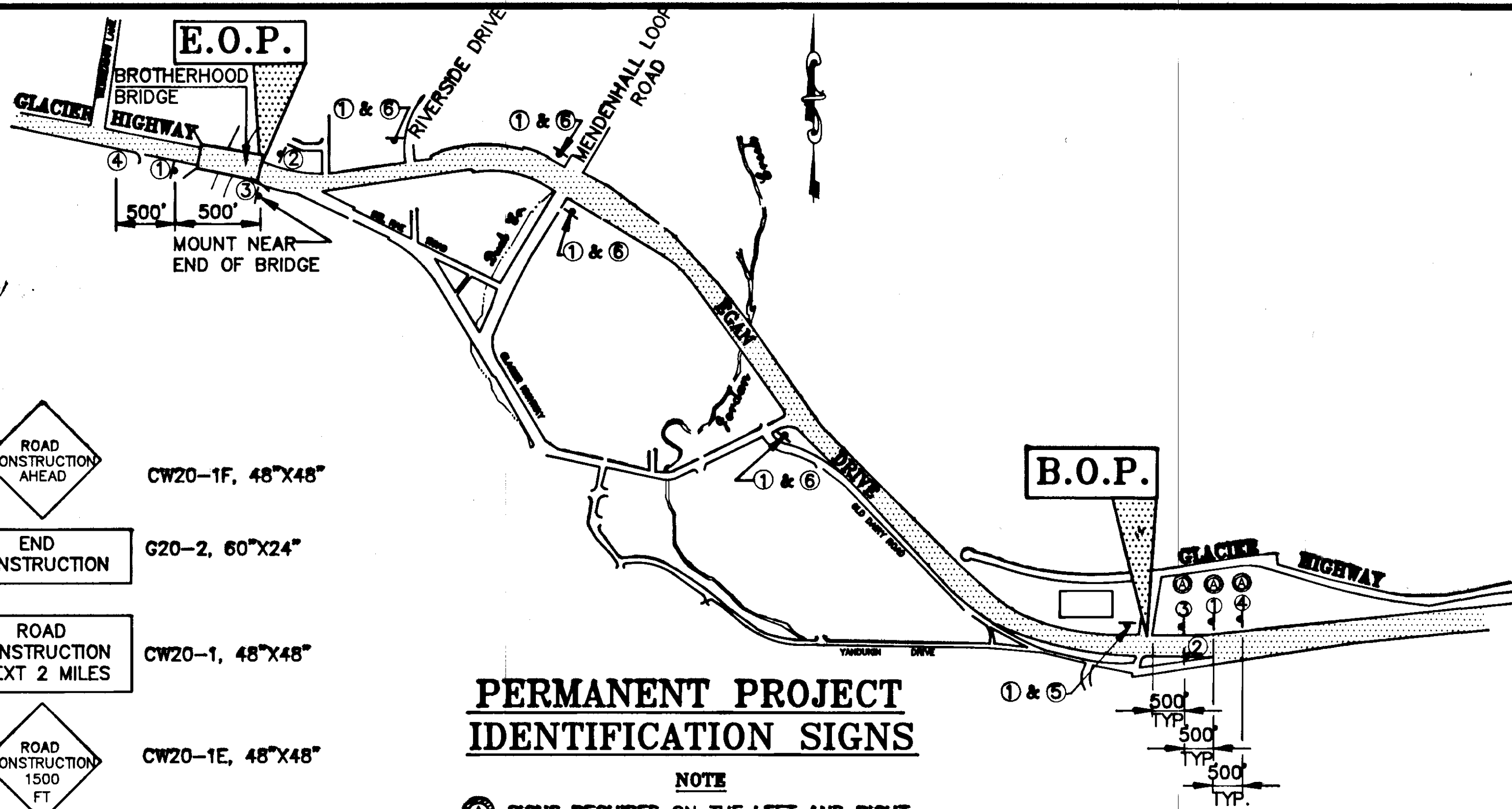
STATE OF ALASKA
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SAFETY IMPROVEMENTS
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ILLUMINATION DETAILS

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ALASKA	DESIGNED BY: E. CAVAGNARO	PROJECT NO. F-093-2(28)
	DRAWN BY: AUTOCADD/C. Anderson	DATE:
	CHECKED BY: K. SMITH	SHEET 5 OF 14

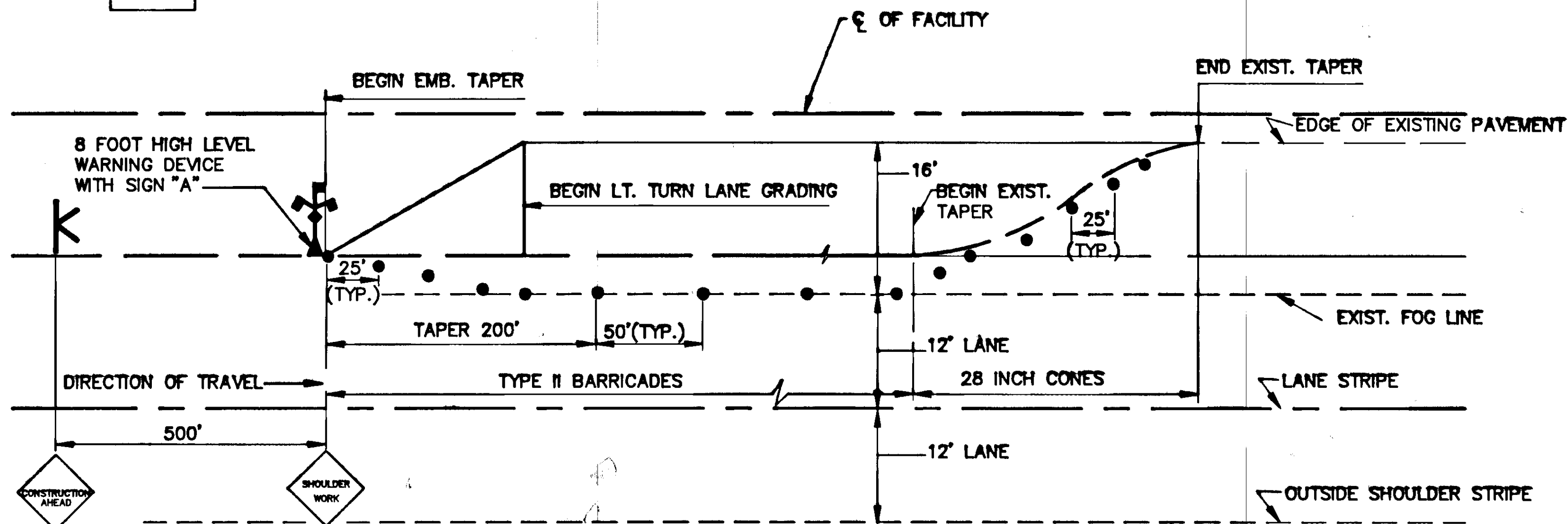




- ① ROAD CONSTRUCTION AHEAD CW20-1F, 48"X48"
- ② END CONSTRUCTION G20-2, 60"X24"
- ③ ROAD CONSTRUCTION NEXT 2 MILES CW20-1, 48"X48"
- ④ ROAD CONSTRUCTION 1500 FT CW20-1E, 48"X48"
- ⑤ → CW-6 RT, 48"X24"
- ⑥ ↔ CW-7, 48"X24"
- ⑦ ← CW-1-6 LT., 48"X24"

PERMANENT PROJECT IDENTIFICATION SIGNS

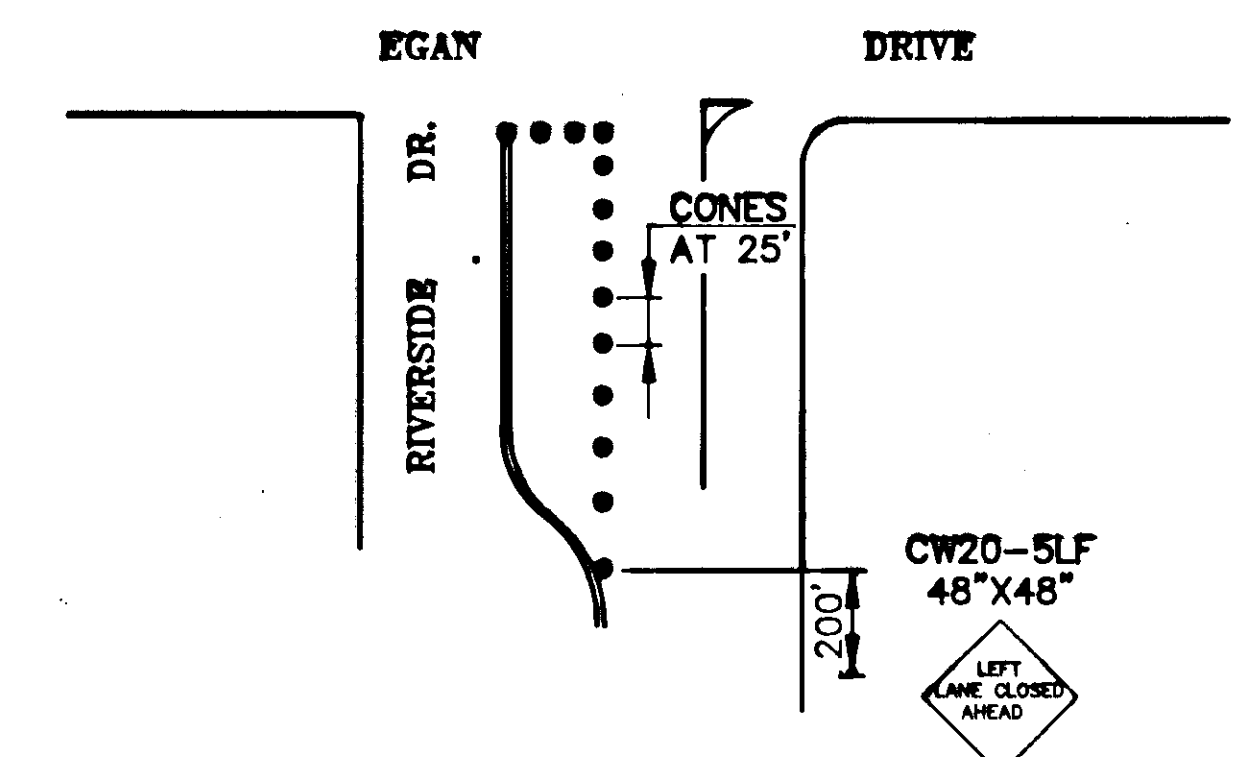
NOTE
 (A) SIGNS REQUIRED ON THE LEFT AND RIGHT SHOULDERS FOR THE EAST BOUND ROAD CONSTRUCTION AHEAD SIGNS (①) ON SIDE STREETS SHALL BE LOCATED 100 FEET FROM THE MAIN STREET EDGE OF PAVEMENT.



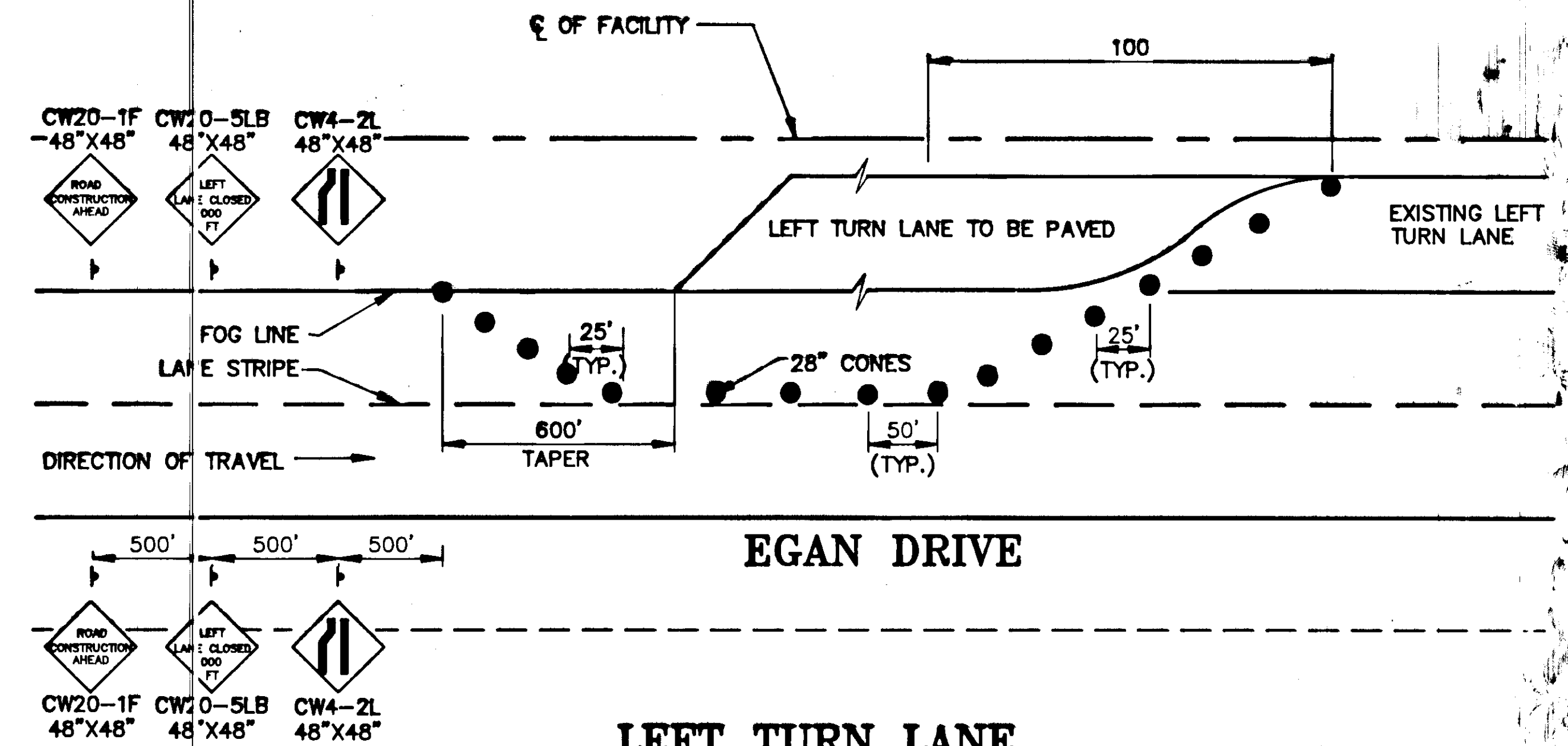
LEFT TURN LANE TRAFFIC CONTROL PLAN DURING GRADING OPERATION (TYPICAL BOTH DIRECTIONS)

GENERAL TCP NOTES

1. TEMPORARY CLOSURES OF THE BIKE PATHS WILL BE PERMITTED TO INSTALL LOAD CENTER CONDUITS AND POLES. CLOSURES SHALL BE LIMITED TO 30 MINUTES AND AUTHORIZED IN WRITING.



RIVERSIDE APPROACH TO EGAN DURING PAVING OF LEFT TURN LANE EASTBOUND ON EGAN



LEFT TURN LANE TRAFFIC CONTROL PLAN DURING PAVING OPERATION (TYPICAL BOTH DIRECTIONS)

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DATE:	DESCRIPTION OF CHANGE:

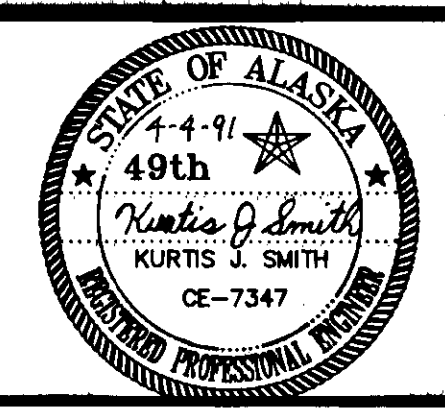
STATE OF ALASKA
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 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 JUNEAU EGAN EXPRESSWAY SAFETY IMPROVEMENTS
 F-093-2(28)
TRAFFIC CONTROL PLAN

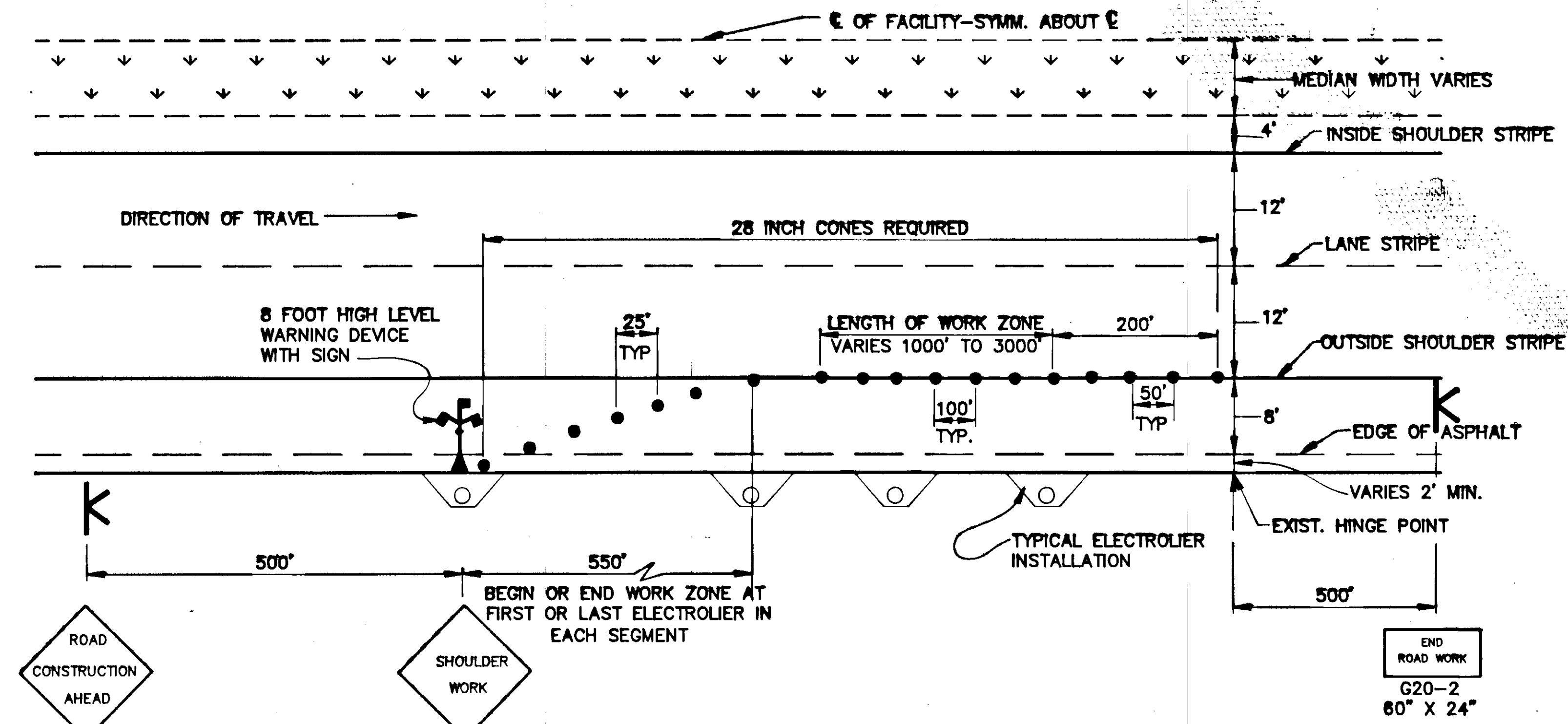
ALASKA

DESIGNED BY: E. CAVAGNARO
 DRAWN BY: AUTOCADD/C. Anderson
 CHECKED BY: K. SMITH

PROJECT NO. F-093-2(28)
 DATE:
 SHEET 6 OF 14



**GRADING AND DRAINAGE WORK BETWEEN
STATION 333+25 AND STATION 339+00**



NOTES

1. THE "TYPICAL LANE CLOSURE-SHORT DURATION" DETAIL SHOWN ON STANDARD DRAWING (S.D.) C-03.01 SHALL BE USED WHILE COMPLETING THE GRADING AND DRAINAGE WORK SHOWN ON SHEETS 8 & 9. TRAFFIC CONTROL DURING THE REMOVAL OF FENCE, INSTALLATION OF CURBING, REINSTALLATION OF THE FENCE, AND THE SEEDING OPERATION SHOWN ON SHEETS 8 & 9 SHALL BE AS SHOWN FOR THE INSTALLATION OF THE ILLUMINATION SYSTEM.
2. ONLY THE GRADING WORK BETWEEN 334+50 AND 336+50 LEFT, MAY BE COMPLETED FROM EGAN DRIVE. ALL OTHER GRADING AND DRAINAGE WORK DETAILED ON SHEET 8 & 9 SHALL BE COMPLETED FROM YANDUKIN DRIVE.
3. DURING NON WORKING HOURS THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC ON YANDUKIN DRIVE.
4. THE SIGN SEPARATION DISTANCES SHOWN ON S.D. C-03.01 MAY BE REDUCED WHEN APPROVED.

NOTES

1. THIS TCP ONLY APPLIES TO SHOULDER WORK. IN-LANE WORK WILL REQUIRE SUBMITTAL OF A NEW TCP.
2. NO VEHICLES WITH LUGS OR OVER WIDTH LOADS SHALL BE ALLOWED IN THIS WORK ZONE(S).
3. TRENCHES AND HOLES REQUIRED TO INSTALL ELECTROLIER FOUNDATIONS, J-BOXES, AND CONDUITS SHALL BE BACKFILLED PRIOR TO THE END OF EACH WORK DAY.

**ILLUMINATION
TRAFFIC CONTROL PLAN**

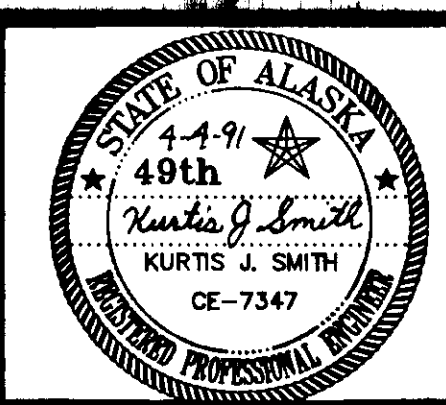
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
RIVERSIDE DRIVE RECONSTRUCTION
STAGE II
F-093-2(28)
ALASKA
TRAFFIC CONTROL PLAN

DESIGNED BY: E. CAVAGNARO	PROJECT NO. F-093-2(28)
DRAWN BY: AUTOCADD / C. Anderson	DATE:
CHECKED BY: K. SMITH	SHEET 7 OF 14



HORIZONTAL CONTROL

THE BASIS OF BEARING IS A BEARING OF N. 88° 56' 17" E. BETWEEN THE B.O.P. CENTERLINE MONUMENT AT "AS-BUILT" STATION "O" 331+82.53 AND THE CENTERLINE MONUMENT AT "AS-BUILT" STATION "O" 334+32.94.

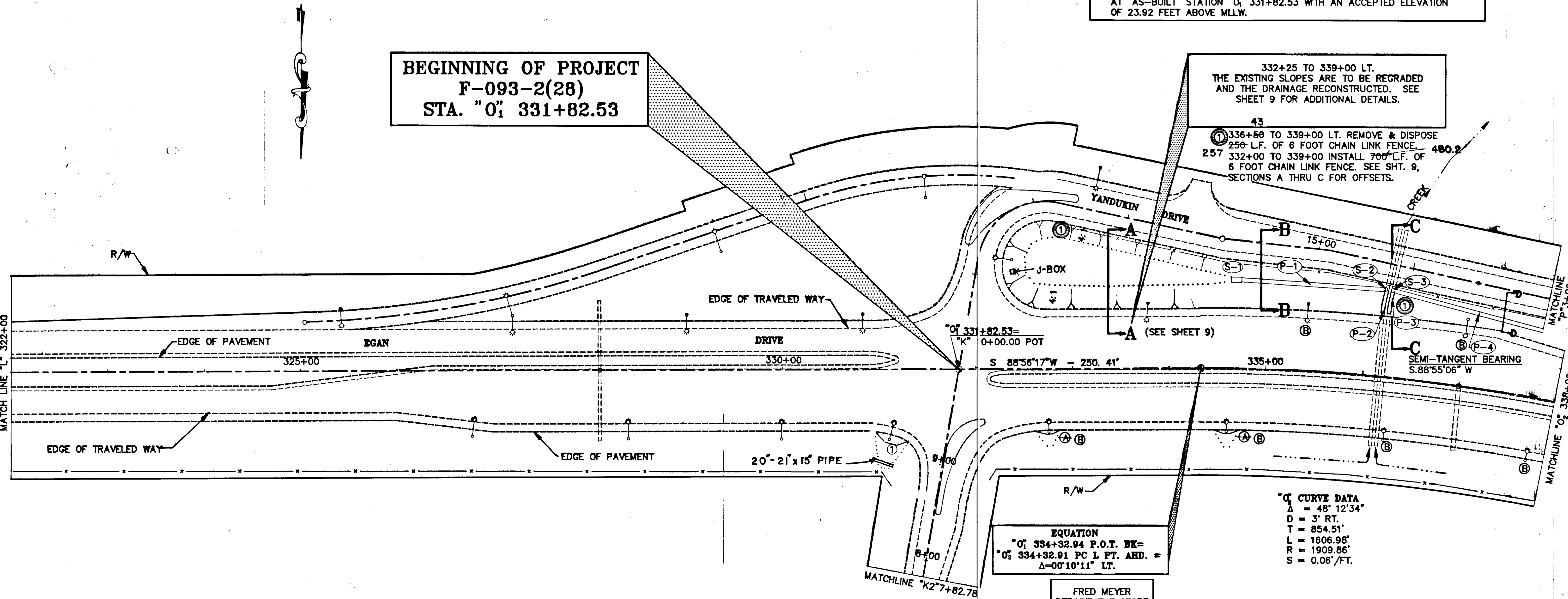
VERTICAL CONTROL

THE BASIS OF VERTICAL CONTROL IS THE B.O.P. INTERSECTION MONUMENT AT "AS-BUILT" STATION "O" 331+82.53 WITH AN ACCEPTED ELEVATION OF 23.92 FEET ABOVE MLLW.

BEGINNING OF PROJECT
F-093-2(28)
STA. "O" 331+82.53

332+25 TO 339+00 LT.
 THE EXISTING SLOPES ARE TO BE REGRADED AND THE DRAINAGE RECONSTRUCTED. SEE SHEET 9 FOR ADDITIONAL DETAILS.

43
 ① 336+50 TO 339+00 LT. REMOVE & DISPOSE 250' L.F. OF 6 FOOT CHAIN LINK FENCE.
 257 332+00 TO 339+00 INSTALL 700' L.F. OF 6 FOOT CHAIN LINK FENCE. SEE SHT. 9, SECTIONS A THRU C FOR OFFSETS.

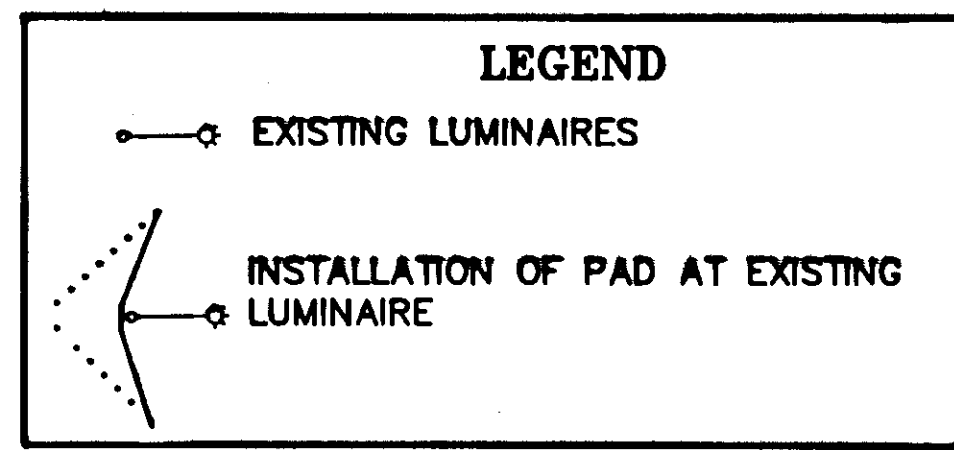


① INDICATES RECONSTRUCTION OF EXISTING ELECTROLIERS WITH SLIP BASES AND POURED IN PLACE FOUNDATIONS. SEE SUBSECTION 660-1.01

Ⓐ INDICATES CONSTRUCTION OF AN ELECTROLIER PAD AROUND EXISTING ILLUMINAIRES. SEE SHEET 2 AND 4 FOR INSTALLATION DETAILS. PAYMENT FOR THESE PADS SHALL BE MADE UNDER ITEMS 203(6A), 618(1&3), PLUS 620(1).

Ⓑ INDICATES REMOVAL OF 2 TO 6 INCHES OF SANDY SILT AND SOD FROM BASE OF EXISTING ELECTROLIER. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK APPEARING IN THE BID SCHEDULE.

CURVE DATA
 $\Delta = 48^\circ 12' 34"$
 $D = 3'$ RT.
 $T = 854.51'$
 $L = 1606.98'$
 $R = 1909.86'$
 $S = 0.06'/FT.$



NOTE: DO NOT SCALE FROM THESE PLANS USE DIMENSIONS

DATE:	DESCRIPTION OF CHANGE:

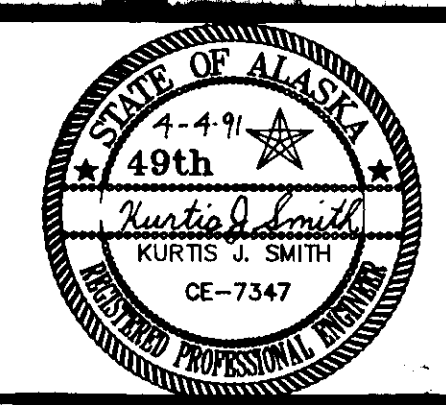
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 JUNEAU EGAN EXPRESSWAY
 SAFETY IMPROVEMENTS
 F-093-2(28)

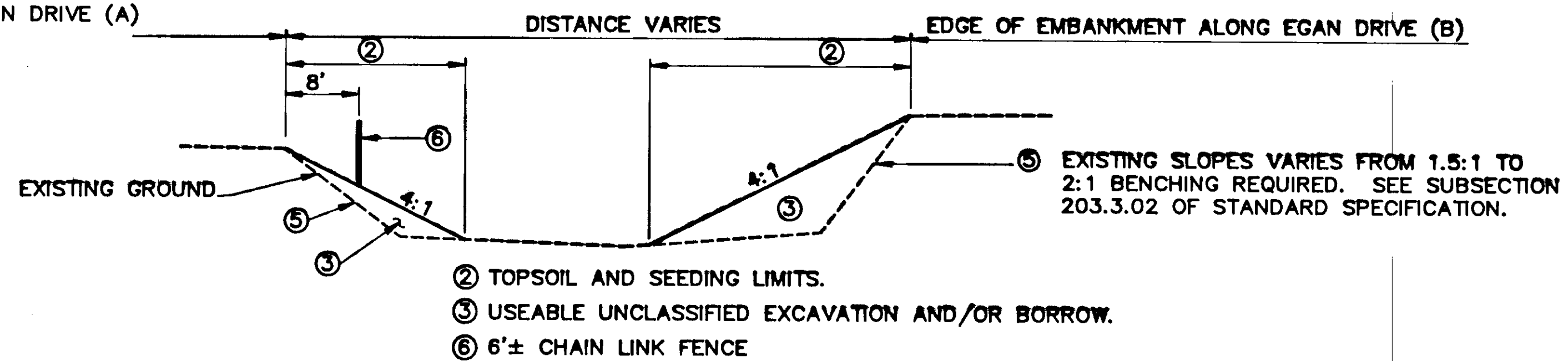
FRED MEYER INTERSECTION

ALASKA
 DESIGNED BY:
 T. SAUNDERS
 DRAWN BY:
 AUTOCADD/c. Anderson
 CHECKED BY:
 E. CAVAGNARO

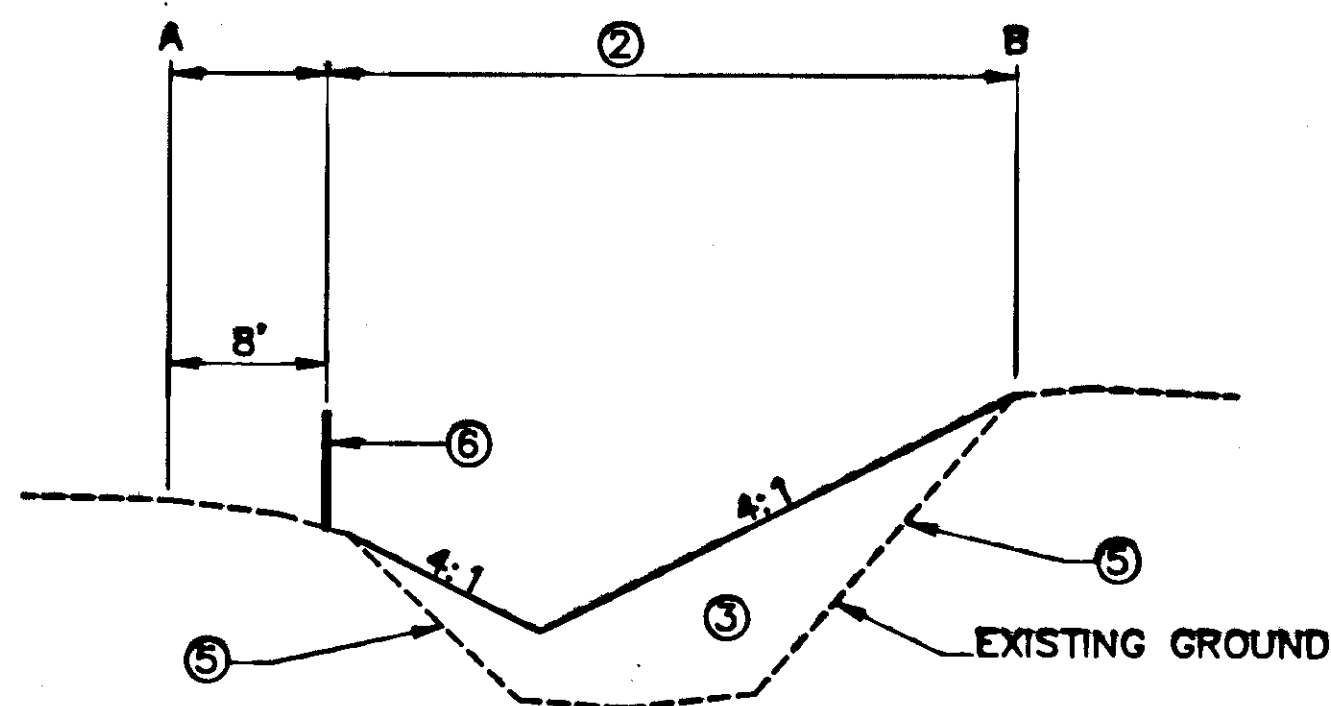
PROJECT NO.
 F-093-2(28)
 DATE:
 SHEET 8 OF 14



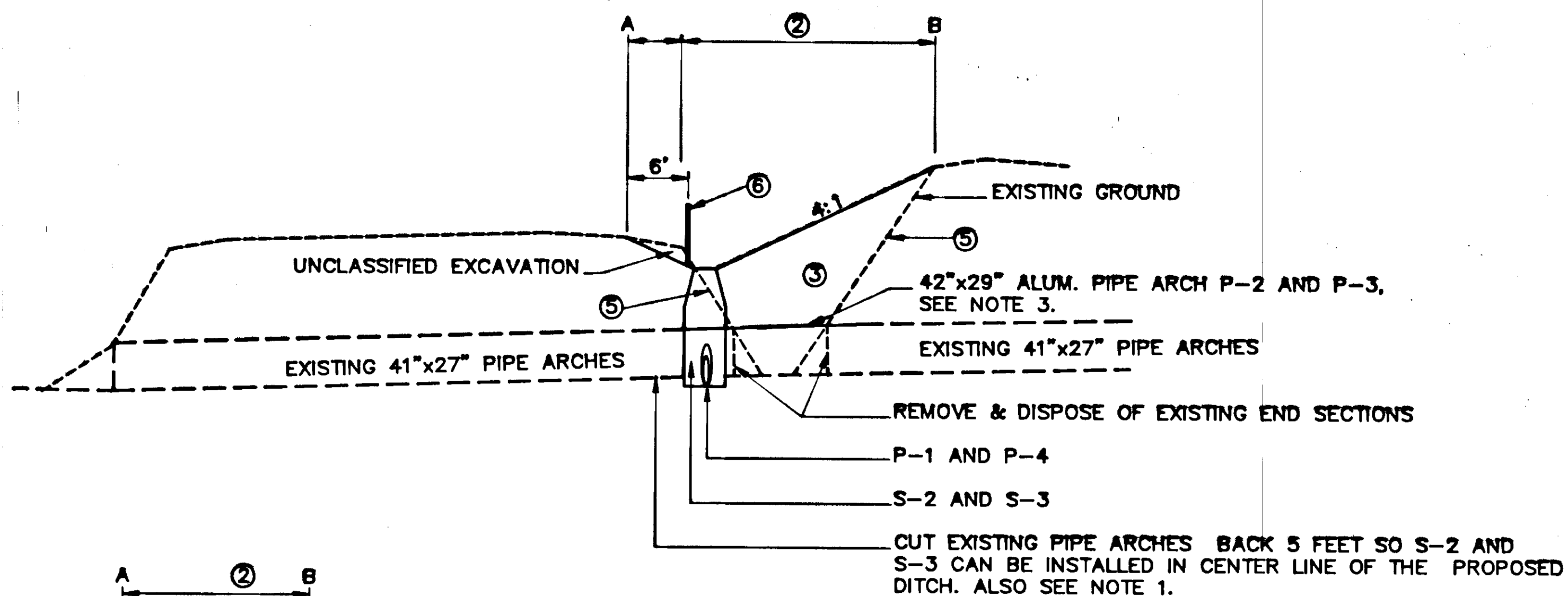
EDGE OF PAVEMENT
YANDUKIN DRIVE (A)



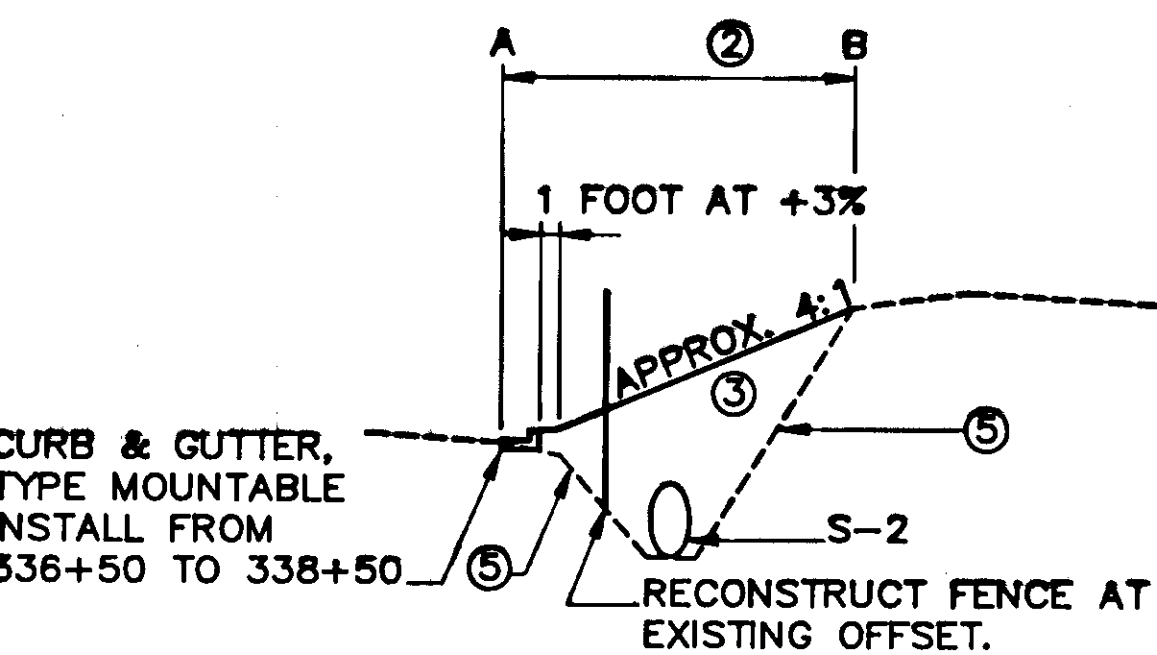
SECTION A-A
(SEE SHEET 8)



SECTION B-B
(SEE SHEET 8)



SECTION C-C
(SEE SHEET 8)



SECTION D-D
(SEE SHEET 8)

STRUCTURE SUMMARY						
Structure No.	Inlet Type	Station	Offset		Top of Grade El.	Invert El.
			Left	Right		
S-1	C	333+65	85		19.40 (A)	18.50
S-2	B (B)	336+10	91.3		22.50 (C)	16.75
S-3	B (B)	336+18	91.7		22.50 (C)	16.75
S-4	C	339+15	70		20.20 (A)	19.70

- (A) HEAVY DUTY GRATE REQUIRED.
- (B) PRE-CAST INLETS ARE REQUIRED. SEE STANDARD DRAWING D-27.01.
- (C) GUTTER GRATES REQUIRED. SEE STANDARD DRAWING D-24.00.

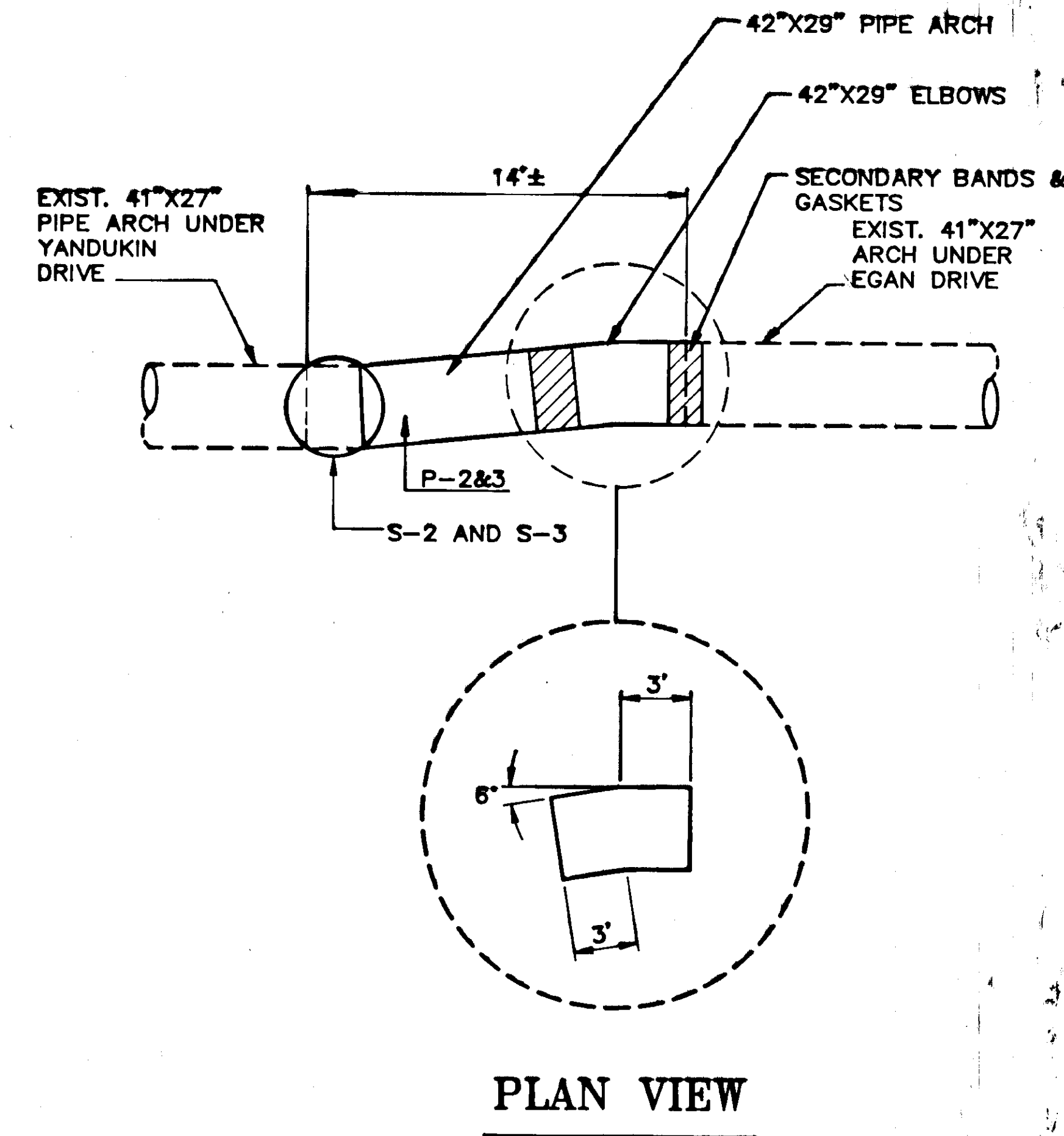
PIPE SUMMARY						
Pipe No.	Diameter	L.F.	Offset		To	
			Structure No.	EL.	Structure No.	EL.
P-1	18	160	S-1	18.50	S-2	16.75
P-2	42x29	8	OUTFALL	16.75		16.75
P-3	42x29	8	OUTFALL	17.50		16.75
P-4	24	300	S-4	19.70	S-3	16.75

NOTE :

1. THE CONTRACTOR SHALL FIELD VERIFY THE FOLLOWING ASBUILT PIPE INFORMATION. SEE NUMBER 2 SUBSECTION 108-1.03 OF STANDARD SPECIFICATIONS.

AS BUILT PIPE INFORMATION

PIPE ARCH SIZE - SPAN 41 INCHES
- RISE 27 INCHES
PIPE CORRUGATIONS - NO DESIGN INFO



PLAN VIEW

DATE:	DESCRIPTION OF CHANGE:

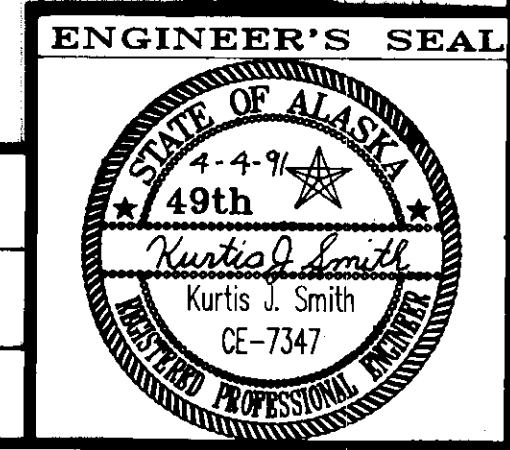
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
JUNEAU EGAN EXPRESSWAY
SAFETY IMPROVEMENTS
F-093-2(28)

ALASKA

DESIGNED BY:
E. CAVAGNARO
DRAWN BY:
AutoCAD / EWB
CHECKED BY:
E. CAVAGNARO

PROJECT No.
F-093-2(28)
DATE:
SHEET 9 OF 14



SLOPE FLATTENING DETAILS

ELECTROLIER NO.	STATION	OFFSET		TYPE OF POLE			L.F. OF PIPE ARCH REQ'D		TYPE OF FOUNDATION	
		LT.	RT.	M	FG	DB	LT.	RT.	PRE-CAST	FIBERGLASS
1	338+75.00	58'		X					X	
2	340+40.00	58'		X			30		X	
18	340+70.00		69'	X	X				X	SEE POLE # 8
3	342+05.00	58'		X			30		X	
19	342+20.00		63'		X				X	
4 & 20	343+70.00	58'	56'	X	X		30		X X	
5 & 21	345+74.00	58'	58'	X	X		30		X X	
6 & 22	347+77.00	58'	58'	X	X		30		X X	
7 & 23	349+81.00	58'	58'	X	X		30		X X	
SHEET TOTAL					8 7	5 6	180		13	

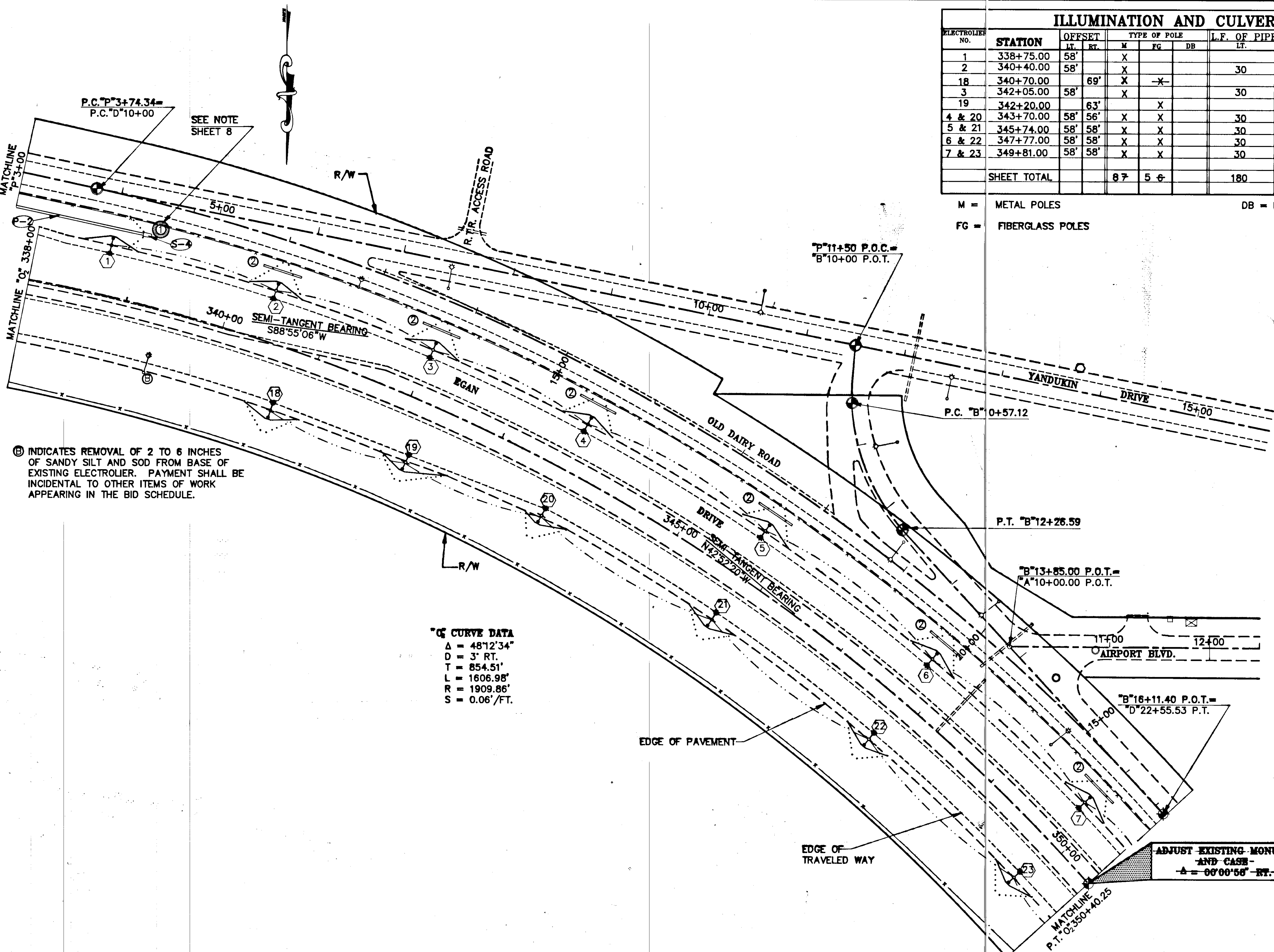
M = METAL POLES

DB = DIRECT BURIAL FIBERGLASS POLES

FG = FIBERGLASS POLES

LEGEND

- EXISTING LUMINAIRES
- NEW LUMINAIRES, J-BOX, PAD AND SLOPES
- LUMINAIRE NUMBER
- 30
② INSTALL 40' L.F. OF 21X15 INCH PIPE ARCH
- PROPOSED LIGHTING CIRCUITS



DATA OF CURVE DATA
 $\Delta = 48^\circ 12' 34''$
 $D = 3' \text{ RT.}$
 $T = 854.51'$
 $L = 1606.98'$
 $R = 1909.86'$
 $S = 0.06' / \text{FT.}$

⊕ INDICATES REMOVAL OF 2 TO 6 INCHES OF SANDY SILT AND SOD FROM BASE OF EXISTING ELECTROLIER. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK APPEARING IN THE BID SCHEDULE.

ADJUST EXISTING MONUMENT AND CASE - $\Delta = 00^\circ 00' 58'' \text{ RT.}$

NOTE: DO NOT SCALE FROM THESE PLANS, USE DIMENSIONS

DATE:	DESCRIPTION OF CHANGE:

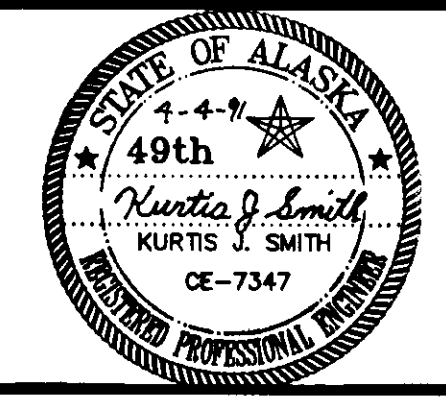
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

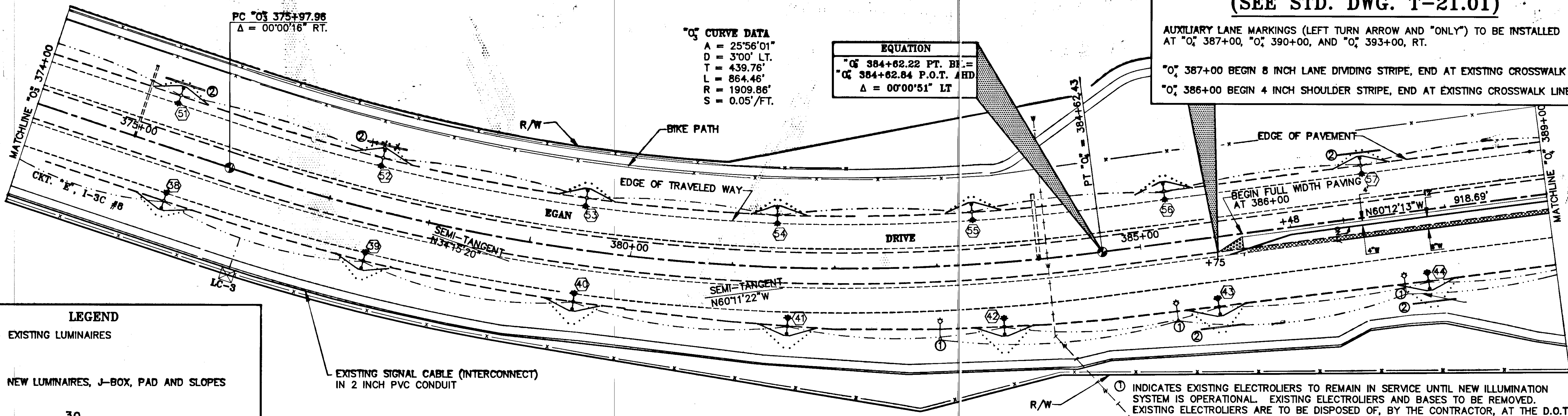
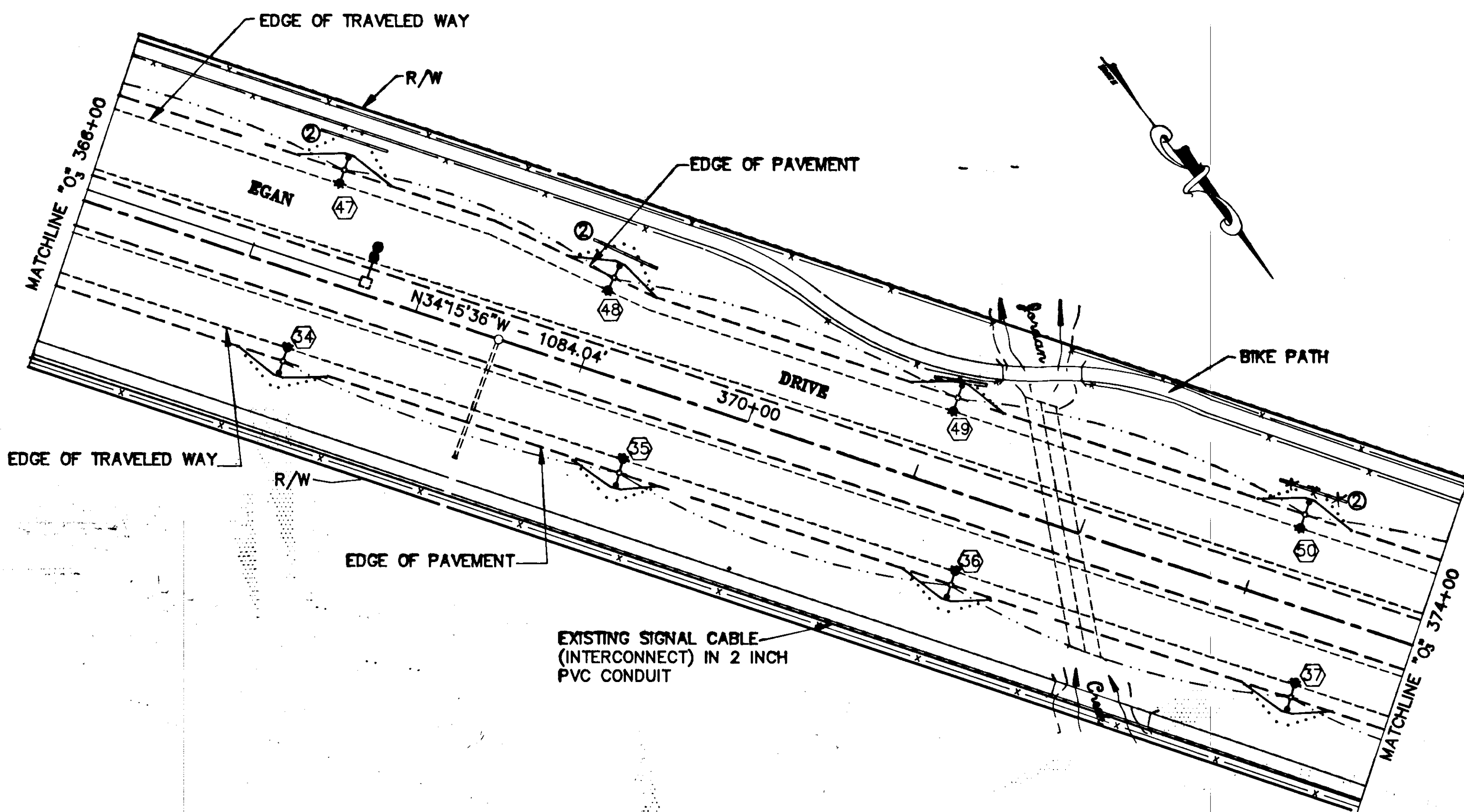
JUNEAU
 JUNEAU EGAN EXPRESSWAY
 SAFETY IMPROVEMENTS
 F-093-2(28)

OLD DAIRY ROAD INTERSECTION

ALASKA

DESIGNED BY: T. SAUNDERS	PROJECT NO. F-093-2(28)
DRAWN BY: AUTOCADD/ C. Anderson	DATE:
CHECKED BY: E. CAVAGNARO	SHEET 10 OF 14





ELECTROLIER NO.	STATION	OFFSET		TYPE OF POLE			L.F. OF PIPE ARCH REQ'D		TYPE OF FOUNDATION	
		LT.	RT.	M	FG	DB	LT.	RT.	PRE-CAST	FIBERGLASS
47	367+34.00	70'		X			30		X	
34	367+37.00		58'			X				X
48	369+00.00	61'		X			30		X	
35	369+39.00		58'			X				X
49	371+10.00	58'		X			30		X	
36	371+41.00		58'			X				X
50	373+20.00	58'		X			30		X	
37	373+44.00		58'			X				X
51	375+30.00	58'		X			30		X	
38	375+46.00		58'			X				X
52	377+40.00	58'		X			30		X	
39	377+48.00		58'			X				X
53 & 40	379+50.00	58'	58'	X	X				X	X
54	381+43.00	58'		X					X	
41	381+56.00		64'			X				X
55	383+37.00	58'		X					X	
42	383+62.00		70'			X				X
56	385+30.00	58'		X					X	
43	385+69.00		70'			X		30		X
57	387+23.00	58'		X			30	30	X	
44	387+75.00		72'			X	30	30		X
SHEET TOTAL				11		11	150+80-	60	11	11

M = METAL POLES
 FG = FIBERGLASS POLES
 DB = DIRECT BURIAL FIBERGLASS POLES

LEFT TURN BAY EXTENSION
 (SEE TYPICAL SECTION, SHEET 2)

INDICATES REMOVAL OF EXISTING ASPHALT. DISPOSAL TO BE IN ASPHALT STORAGE AREA LEFT OF 396+18.

INDICATES EMBANKMENT TRANSITION.

TRAFFIC MARKINGS
 (SEE STD. DWG. T-21.01)

AUXILIARY LANE MARKINGS (LEFT TURN ARROW AND "ONLY") TO BE INSTALLED AT 03 387+00, 03 390+00, AND 03 393+00, RT.

03 387+00 BEGIN 8 INCH LANE DIVIDING STRIPE, END AT EXISTING CROSSWALK LINE.

03 386+00 BEGIN 4 INCH SHOULDER STRIPE, END AT EXISTING CROSSWALK LINE.

LEGEND

- EXISTING LUMINAIRES
- NEW LUMINAIRES, J-BOX, PAD AND SLOPES
- INSTALL 30 L.F. OF 21 X 15 INCH PIPE ARCH
- PROPOSED LUMINAIRE NUMBER
- PROPOSED LIGHTING CIRCUITS
- EXISTING LIGHTING CIRCUITS
- EXISTING SIGNAL CIRCUITS

EXISTING SIGNAL CABLE (INTERCONNECT) IN 2 INCH PVC CONDUIT

NOTE: DO NOT SCALE FROM THESE PLANS USE DIMENSIONS

DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 JUNEAU EGAN EXPRESSWAY
 SAFETY IMPROVEMENTS
 F-093-2(28)
 STA. "0" 366+00 TO STA. "0" 389+00

ALASKA
 DESIGNED BY: T. SAUNDERS
 DRAWN BY: AUTOCADD/C. Anderson
 CHECKED BY: E. CAVAGNARO

PROJECT NO. F-093-2(28)
 DATE:
 SHEET 12 OF 14



LEFT TURN LANE EXTENSION

SEE TYPICAL SECTION, SHEET 2

INDICATES REMOVAL OF EXISTING ASPHALT. DISPOSAL TO BE IN ASPHALT STORAGE AREA LEFT OF 396+18.

INDICATES EMBANKMENT TRANSITION.

TRAFFIC MARKINGS

(SEE STD. DWG. T-21.01)

AUXILIARY LANE MARKINGS (LEFT TURN ARROW AND "ONLY") TO BE INSTALLED AT "O" 394+75, "O" 397+50, AND "O" 400+50, LT.

"O" 400+75 BEGIN 8 INCH LANE DIVIDER STRIPE, END AT EXISTING CROSSWALK LINE.
"O" 401+75 BEGIN 4 INCH SHOULDER STRIPE, END AT EXISTING CROSSWALK LINE.

LEGEND

- EXISTING LUMINAIRES
- INSTALLATION OF PAD AT EXIST. LUMINAIRE
- INSTALL 30 LF OF 21 X 15 INCH PIPE ARCH
- LUMINAIRE NUMBER
- EXISTING SIGNAL CIRCUITS
- PROPOSED LIGHTING AND SIGNAL CIRCUITS
- EXISTING LIGHTING

"O" CURVE DATA
 $\Delta = 40^{\circ}26'27"$
 $D = 4'30"$
 $TS = 581.99'$
 $LC = 674.06'$
 $OS = 5'03'45"$
 $LS = 225.00'$
 $S = 0.06'/FT.$

EQUATION
 "O" 393+93.42 P.O.T. BK=
 "O" 393+93.63 T.S. AHD.

EQUATION
 "O" 393+81.54 P.O.T. BK=
 "O" 393+81.12 P.O.T. AHD.
 "ML" 25+48.11

EQUATION
 "O" 400+81.38 P.O.C.=
 "O" 401+00.00 P.O.C.

ILLUMINATION AND CULVERT SUMMARY

SECTION NO.	STATION	OFFSET		TYPE OF POLE			L.F. OF PIPE ARCH REQ'D		TYPE OF FOUNDATION	
		LT.	RT.	M	FG	DB	LT.	RT.	PRE-CAST	FIBERGLASS
58	389+17.00	58'		X			30'			X
65	395+40.00	69'		X						X
66	397+30.00	59'		X			30'			X
59	398+43.00		58'		X					X
67	399+21.00	58'		X						X
60	400+32.00	58'			X					X
68	401+29.00	58'		X						X
61	402+40.00		58'		X					X
69	403+20.00	58'		X						X
SHEET TOTAL				6	3		30-60'			9

M = METAL POLES
FG = FIBERGLASS POLES

DB = DIRECT BURIAL FIBERGLASS POLES

NOTE: DO NOT SCALE FROM THESE PLANS USE DIMENSIONS

LEFT TURN LANE EXTENSION

SEE TYPICAL SECTION, SHEET 2

INDICATES REMOVAL OF EXISTING ASPHALT. DISPOSAL TO BE IN ASPHALT STORAGE AREA LEFT OF 396+18.

INDICATES EMBANKMENT TRANSITION.

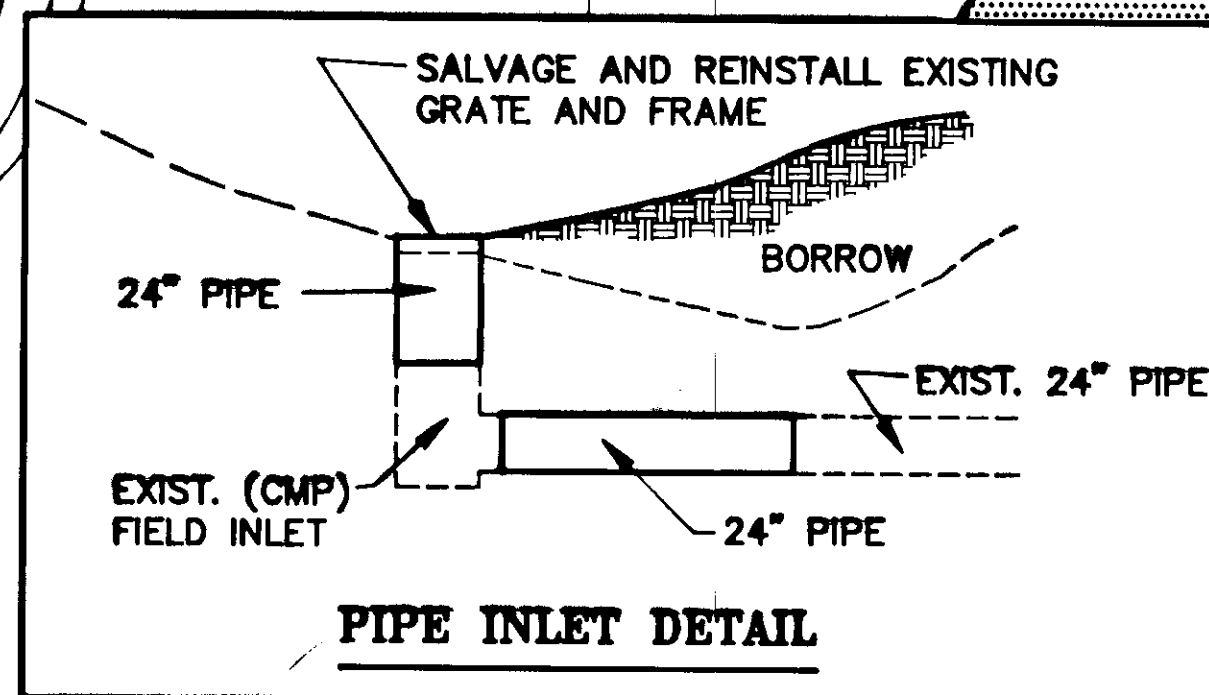
TRAFFIC MARKINGS

(SEE STD. DWG. T-21.01)

AUXILIARY LANE MARKINGS (LEFT TURN ARROW AND "ONLY") TO BE INSTALLED AT "O" 387+50 LEFT.

"O" 388+00 BEGIN 8 INCH LANE DIVIDER STRIPE, END AT EXISTING CROSSWALK LINE.

"O" 385+90 RIGHT BEGIN 4 INCH SHOULDER STRIPE, END AT EXISTING CROSSWALK LINE.



PIPE INLET DETAIL

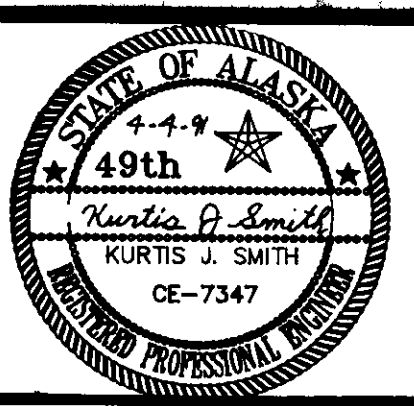
DATE	DESCRIPTION OF CHANGE

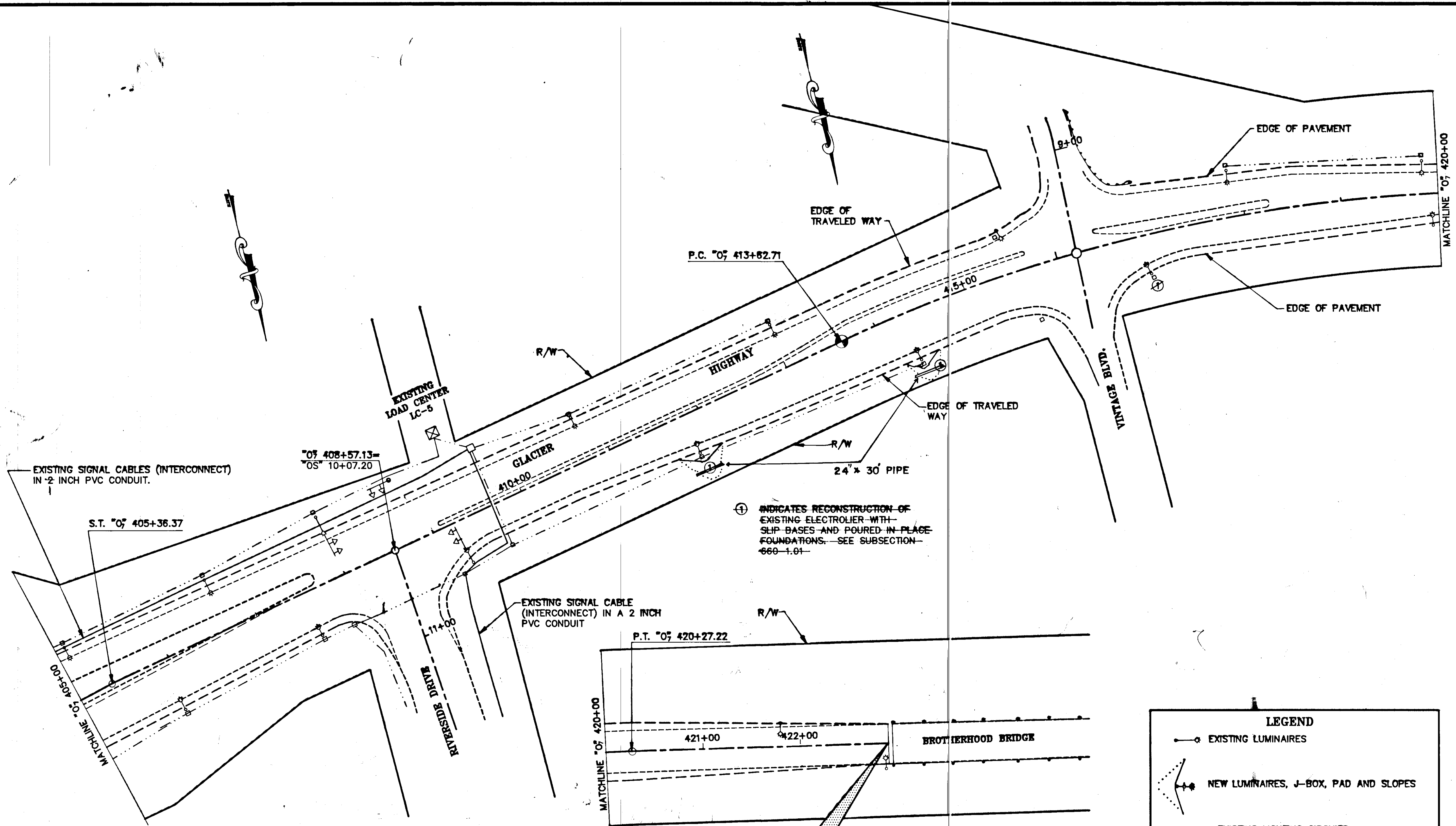
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 JUNEAU EGAN EXPRESSWAY
 SAFETY IMPROVEMENTS
 F-093-2(28)

MENDENHALL LOOP ROAD INTERSECTION

ALASKA
 DESIGNED BY: T. SAUNDERS
 DRAWN BY: AUTOCADD/C. Anderson
 CHECKED BY: E. CAVAGNARO
 PROJECT NO. F-093-2(28)
 DATE:
 SHEET 13 OF 14





END OF PROJECT
F-093-2(28)
STA. "0", 422+90.73

LEGEND

- EXISTING LUMINAIRES
- NEW LUMINAIRES, J-BOX, PAD AND SLOPES
- EXISTING LIGHTING CIRCUITS
- EXISTING SIGNAL CABLE
- ⊕ LUMINAIRE NUMBER

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

JUNEAU
 JUNEAU-EGAN EXPRESSWAY
 SAFETY IMPROVEMENTS
 F-093-2(28)

STA. 405+00 TO E.O.P.

ALASKA

DESIGNED BY:
 T. SANDERS
 DRAWN BY:
 AUTOCADD / C. Anderson
 CHECKED BY:
 E. CAVAGNARO

PROJECT NO.
 F-093-2(28)
 DATE:
 SHEET 14 OF 14

