

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION
DESIGN AND CONSTRUCTION DIVISION
PRINCE OF WALES ISLAND THORNE BAY, ALASKA
**SOUTH THORNE BAY ROAD
TO
KASAAN ROAD**
PROJECT NO. STP-0003(46)-71947
GRADING AND DRAINAGE

<i>INDEX OF SHEETS</i>	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	ESTIMATE OF QUANTITIES ~ TYPICAL SECTIONS
4-5	DRAINAGE DETAILS
6	LOON CREEK CROSSING DETAILS
7	SIGNING DETAILS
8-12	EROSION AND SEDIMENT CONTROL PLAN
13-22	PLAN AND PROFILE SHEETS

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
E-00.00, S-00.00, S-05.00, S-30.01
(THESE STANDARD DRAWINGS ARE ATTACHED TO THE BACK OF THE CONTRACT DOCUMENT AND SPECIFICATION ASSEMBLY).

NOTE
THIS PROJECT WAS DESIGNED BY
AND CONSTRUCTED FOR THE
CITY OF THORNE BAY.

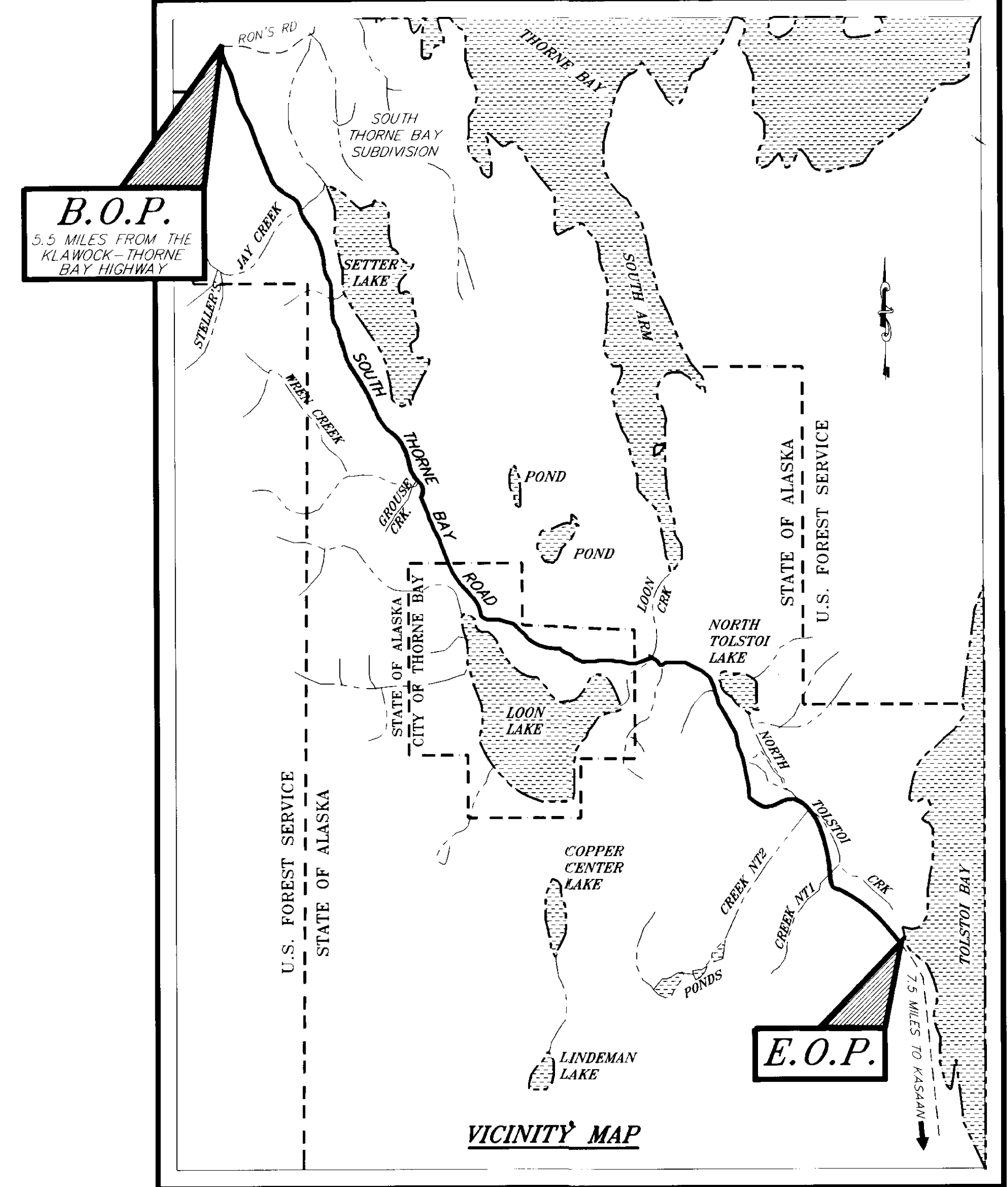
DESIGN DESIGNATION

- ADT 1997.....45
- ADT 2017.....50
- DHV 20% (2017).....10
- % T.....16.5%
- V.....20 MPH
- EAL'S.....21,000

PROJECT SUMMARY

LENGTH OF GRADING..... 28,428 FEET
OR 5.4 MILES

THE FOLLOWING EXCEPTIONS TO DESIGN STANDARDS
WERE APPROVED ON SEPTEMBER 19, 1995:
CONSTRUCTION OF A ONE LANE ROADWAY
20 MPH DESIGN SPEED, AND CONSTRUCTION
OF THE LOG STRINGER BRIDGE WITHOUT
APPROVED BRIDGE RAIL.



"AS-BUILT" PLANS
CONTRACTOR: McCallen Construction
PROJECT ENGINEER: Mark Figley
Begin Construction: 3-11-96
End Construction: 3-21-97
Contract Amount: \$1,889,071.51

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

APPROVED Date 11/2/95
Regional Preconstruction Engineer

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

PROJECT NUMBER: 71947	ENGINEER'S SEAL 	ENGINEER'S SEAL
DATE: 1995		
SHEET 1 OF 22		

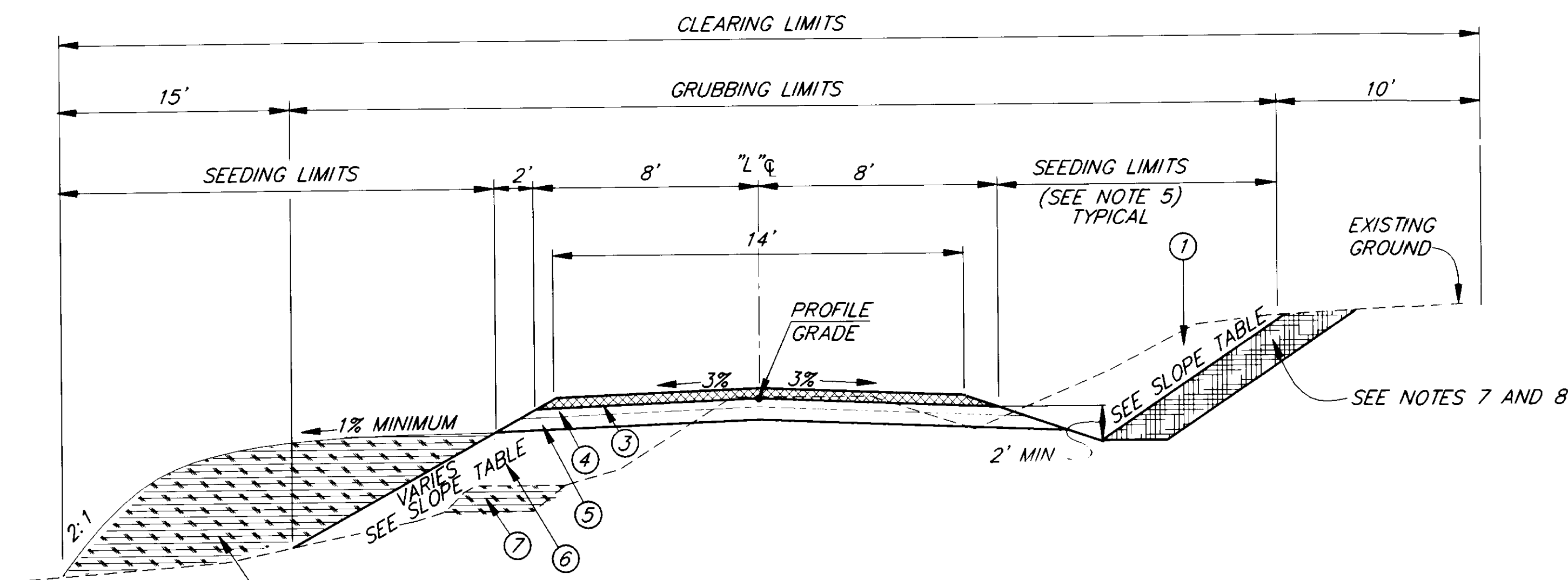
P:\PDM\71947\DR1\TSHEET 1-1

GENERAL NOTES

1. THERE HAS NOT BEEN AN ENGINEERING GEOLOGY OR SOILS REPORT COMPLETED ON THIS PROJECT. HOWEVER, SOME PRELIMINARY SOIL PROBES WERE COMPLETED ALONG THE "P" LINE. THAT INFORMATION IS CONTAINED IN APPENDIX D, ATTACHED TO THE CONTRACT DOCUMENTS. BASED ON THAT INFORMATION AND A FIELD INSPECTION, IT HAS BEEN DETERMINED THAT ALL EXCAVATION EXCEPT ROCK IS CONSIDERED WASTE.
2. THE ALIGNMENT AND GRADE ARE SUBJECT TO MINOR REVISIONS AS APPROVED BY THE ENGINEER. INFORMATION ON THE PERCENT OF GRADE, THE MAXIMUM ALGEBRAIC DIFFERENCE IN GRADES, AND THE MINIMUM LENGTH OF VERTICAL CURVES CAN BE OBTAINED FROM SECTION 642 OF THE SPECIFICATIONS.
3. EACH CURVE SHALL BE SUPERELEVATED WITH 4% SUPER ROTATED ABOUT THE CENTERLINE ("L") FOR THE ENTIRE LENGTH OF THE CURVE. A 100 FOOT SUPERELEVATION TRANSITION SHALL BE USED AT EACH END OF ALL CURVES.
4. THE REMOVAL OF STRUCTURES AND OBSTRUCTIONS ON THIS PROJECT CONSISTS OF THE FOLLOWING:
1.) REMOVAL OF ANY METAL WITHIN THE CLEARING LIMITS, 2.) THE REMOVAL OF BEAVER DAMS NEAR THE INLETS OF CULVERTS AS DIRECTED, 3.) THE REMOVAL OF EXISTING TIMBER STRUCTURES.
THE METAL CONSISTS OF DRUMS, CABLE, ETC. FROM A PREVIOUS LOGGING OPERATION. ALL METAL SHALL BE DISPOSED OF AT THE CITY OF THORNE BAY'S LANDFILL AND THE BEAVER DAMS SHALL BE DISPOSED OF IN THE WASTE BERM.
5. ALL SLOPES EXCEPT ROCK SLOPES SHALL BE SEEDED, SEE NOTES ON SHEET 9.
6. THE RIGHT OF WAY FOR THIS PROJECT IS SUBJECT TO THE PROVISIONS OF THE DIVISION OF LAND'S EARLY ENTRY PERMIT NO. 105577. A COPY OF THAT PERMIT IS LOCATED IN APPENDIX "A". THE EARLY ENTRY PERMIT IS FOR A RIGHT OF WAY CORRIDOR THAT IS 200 FEET WIDE, 100 FEET ON EACH SIDE OF THE "L" LINE.
7. A 6 FOOT FLAT BOTTOM DITCH SHALL BE PROVIDED ON THE INSIDE OF ALL CURVES WHERE THE RADIUS IS LESS THAN 350 FEET, ON ALL CUT SLOPES GREATER THAN 10 FEET IN HEIGHT AND IN MUSKEG SIDE SLOPE CONSTRUCTION AREAS.
8. ALL PIONEERING OPERATIONS REQUIRED TO ACCESS THE TOP OF CUT SLOPES OR TOE OF FILL SLOPES SHALL NOT UNDERCUT FINAL CUT SLOPES, DEPOSIT USEABLE EXCAVATION OUTSIDE THE TOE OF THE ROADWAY FILL, OR RESTRICT DRAINAGE.
9. PRIOR TO FALLING ANY TIMBER ON STATE LANDS, THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF NATURAL RESOURCES, DIVISION OF FORESTRY IN KETCHIKAN, AND THE PROJECT ENGINEER.

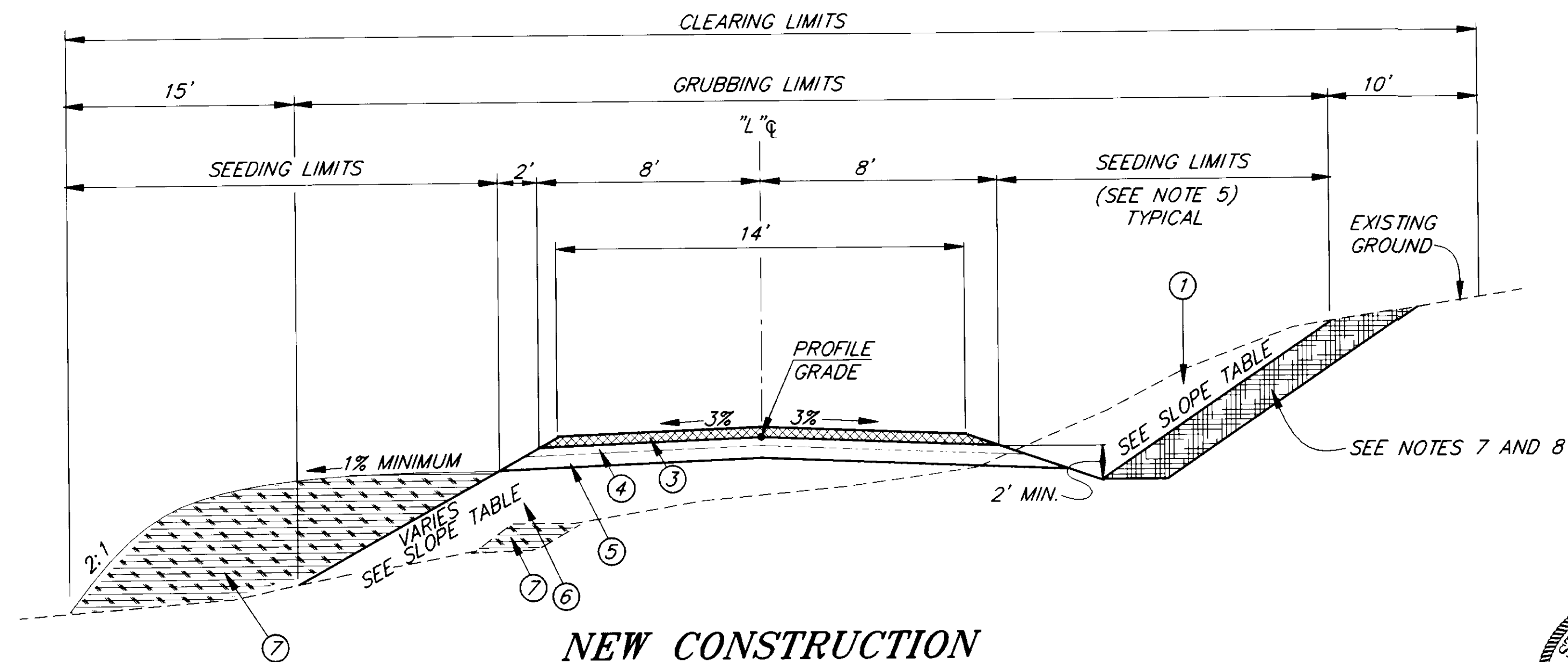
THE DEPARTMENT OF NATURAL RESOURCES ADDRESS IN KETCHIKAN IS AS FOLLOWS:

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY
2030 SEALEVEL DRIVE, SUITE 217
KETCHIKAN, ALASKA 99901
PHONE NO. (907) 225-3070
10. PLACEMENT OF THE TURNOUTS AND TWO LANE SECTION SHOWN ON THE PLAN AND PROFILE SHEETS ARE APPROXIMATE AND WILL BE ADJUSTED BY THE ENGINEER TO PROVIDE A SAFE TWO-DIRECTIONAL, ONE LANE ROADWAY WITH INTERVISIBLE TURNOUTS. CONSTRUCTION OF ADDITIONAL TWO-LANE SEGMENTS MAY BE REQUIRED WHEN THE FINAL HORIZONTAL AND VERTICAL ALIGNMENTS ARE ESTABLISHED BY THE ENGINEER.



RECONSTRUCTION OF OLD LOGGING ROAD

(THERE IS APPROXIMATELY 3.5 MILES OF THIS TYPE OF RECONSTRUCTION)



NEW CONSTRUCTION

(THERE IS APPROXIMATELY 2 MILES OF THIS TYPE OF CONSTRUCTION)

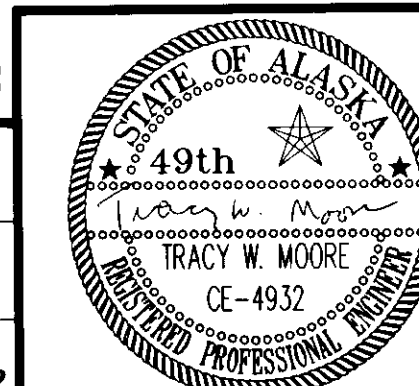
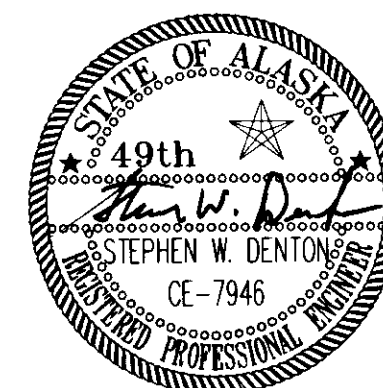
①	EXCAVATION (SEE SECTION 207 OF THE SPECIFICATIONS AND NOTE 1 ABOVE)
③	4" OF SUBBASE, GRADING "B" (FUTURE WORK, NOT IN THIS CONTRACT)
④	8" OF SELECTED MATERIAL, TYPE "D"
⑤	MINIMUM DEPTH OF EMBANKMENT VARIES. SEE TABLE BELOW. ALSO SEE SECTION 207 OF THE SPECIFICATIONS.
⑥	EMBANKMENT. SEE SECTION 207 OF THE SPECIFICATIONS.
⑦	WASTE BERM-SEE SECTION 207 OF THE SPECIAL PROVISIONS FOR DETAILS.

FOUNDATION MATERIAL	DEPTH (INCHES)
ROCK	8
GRANULAR SOIL	12
SILT	24
MUSKEG	48

DEPTH MAY BE ADJUSTED BY THE ENGINEER

MATERIAL	CUT	FILL
GRANULAR SOILS	1.5:1	1.5:1
MUSKEG	0.5:1	1.25:1
ROCK	0.25:1	1.5:1
SILT	1.5:1	N/A

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

PRINCE OF WALES, ISLAND THORNE BAY, ALASKA
SOUTH THORNE BAY ROAD TO KASAAN ROAD
GRADING AND DRAINAGE
PROJECT NO. STP-0003(46)-71947
TYPICAL SECTIONS

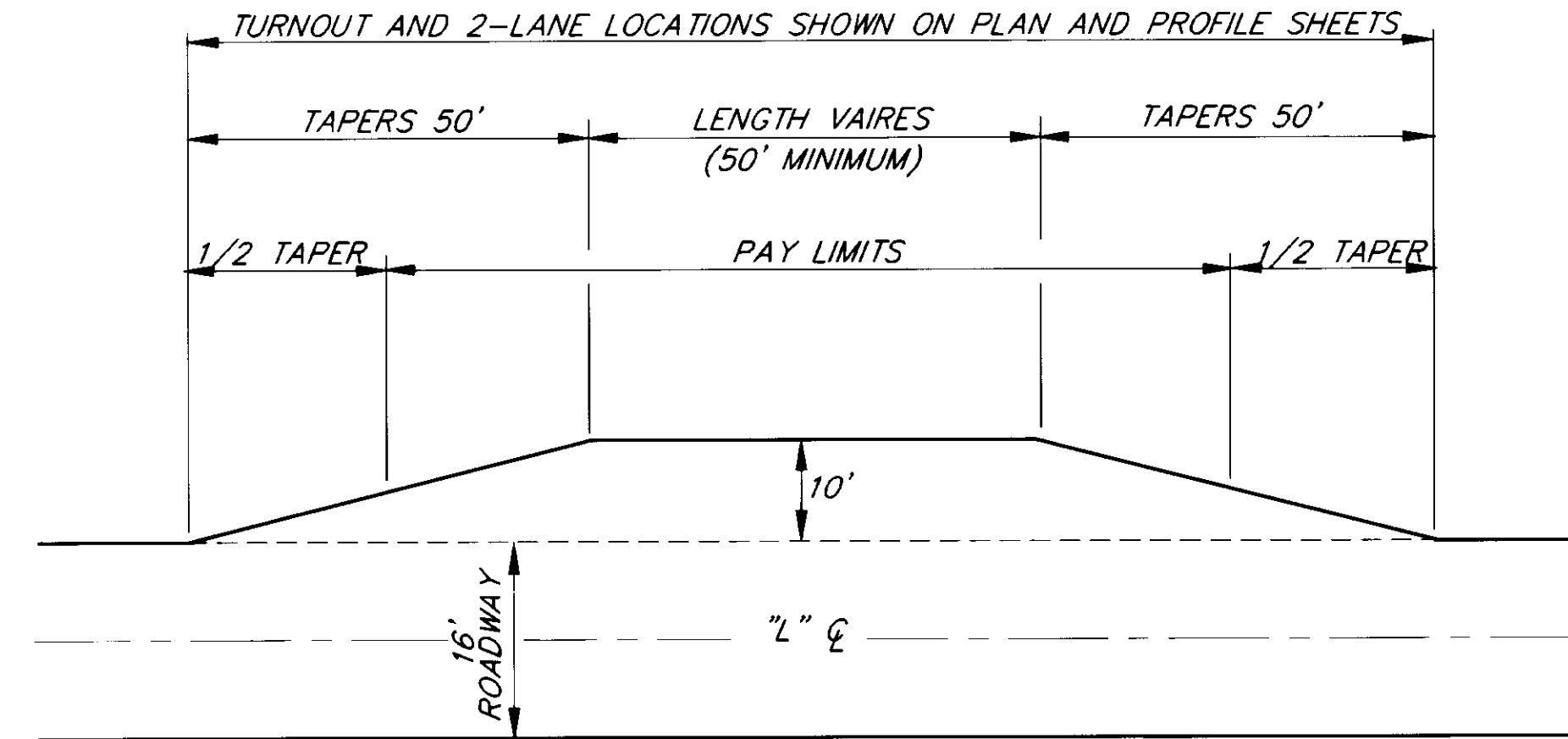
DESIGNED BY: E. CAVAGNARO	PROJECT NO. 71947
DRAWN BY: C. ANDERSON	DATE: 1995
CHECKED BY: T. MOORE	SHEET 2 OF 22

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
120(1)	DBE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D.
201(6)	SELECTIVE TREE REMOVAL	EACH	6 -50
203(13)	DITCH BLOCK	EACH	19 +100
203(14)	SELECTED MATERIAL, TYPE "D", 8" DEPTH	SQUARE YARD	80,244.15 65,000
203(15)	Extra Select Material Handling	C.O.3 LUMP SUM	All Req'd.
207(1)	COMPOSITE ROAD CONSTRUCTION	LANE STATION	518.49 -410
109(1)	CDE Shutdown Impact Costs	C.O.3 LUMP SUM	All Req'd.
510(1a)	LOON CREEK CROSSING	C.O.2 LUMP SUM	ALL REQ'D.
603(17-24)	24 INCH PIPE	LINEAR FOOT	2,751 2,520
603(17-36)	36 INCH PIPE	LINEAR FOOT	634 -560
603(17-48)	48 INCH PIPE	LINEAR FOOT	190 -200
603(17-60)	60 INCH PIPE	LINEAR FOOT	60
603(19-66X51)	PIPE ARCH	LINEAR FOOT	60 -40
603(19-81X59)	PIPE ARCH	LINEAR FOOT	120 +100
603(19-95X67)	PIPE ARCH	LINEAR FOOT	60
603(19-117X79)	PIPE ARCH	LINEAR FOOT	120
109(2)	Wetlands Reclamation & Creation	C.O.4 LUMP SUM	All Req'd.
615(1)	STANDARD SIGNS	SQUARE FOOT	66.25
618(1)	SEEDING	ACRE	0.3
618(3)	WATER FOR SEEDING	M. GAL	0 -50
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D.
641(1)	TEMPORARY EROSION AND POLLUTION CONTROL ADMIN.	LUMP SUM	ALL REQ'D.
641(2)	TEMPORARY EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQ'D.
641(4)	ROCK CHECK DAMS	EACH	1 +100
641(5)	HAND SEEDING	MSF	1,286.5 +100
641(6)	SOIL STABILIZATION MATTING	MSF	24.1 +0
641(7)	SILT FENCING	LINEAR FOOT	2,000
641(8)	STRAW BALES	EACH	50
642(2)	TWO PERSON SURVEY PARTY	HOUR	4.6 -50
642(3)	AS-BUILT	LUMP SUM	ALL REQ'D.
643(1)	ROAD CLOSURE GATE	LUMP SUM	ALL REQ'D.
644(1)	FIELD OFFICE	LUMP SUM	ALL REQ'D.
644(2)	FIELD LABORATORY	LUMP SUM	ALL REQ'D.
644(6)(a)	ENGINEERING TRANSPORTATION	C.O.1 LUMP SUM	ALL REQ'D.
644(1)	Additional Contractor Furnished Services	C.O.3 LUMP SUM	All Req'd.

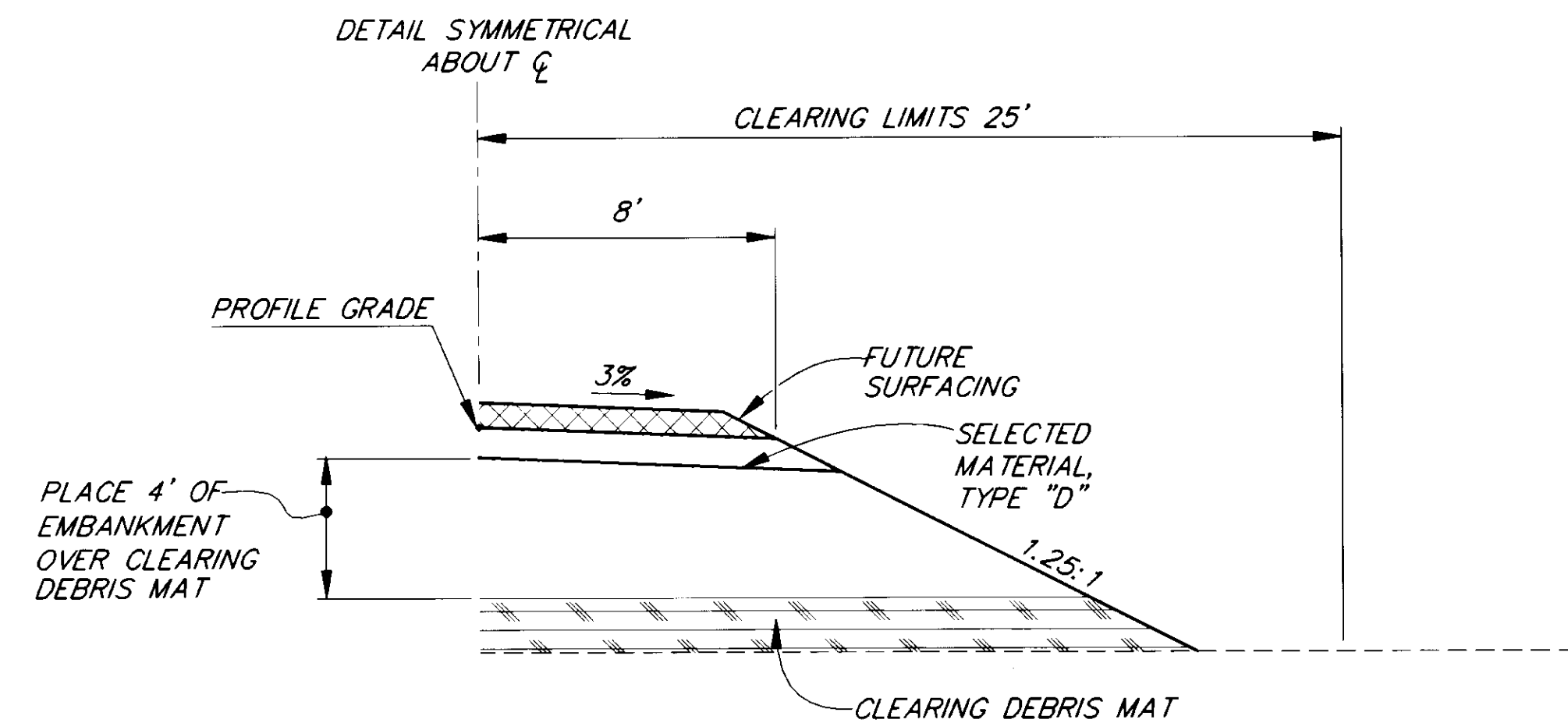
BASIS OF ESTIMATE

ITEM NO.	ESTIMATING FACTOR
207(1)	COMPOSITE ROAD CONSTRUCTION - INCLUDES APPROXIMATELY 40 ACRES OF CLEARING, 25 ACRES OF GRUBBING AND 170,000 CUBIC YARDS OF EXCAVATION, 100,000 CUBIC YARDS OF EMBANKMENT, 700 CUBIC YARDS OF CLASS II RIPRAP, AND THE REQUIRED CONSTRUCTION SURVEYS.
510(1)	LOON CREEK CROSSING - ^{40" steel girder bridge} NATIVE LOG STRINGER BRIDGE, EMBANKMENT MATERIAL AND GEOTEXTILE AS NOTED ON SHEET 6.
643(1)	2 GATES REQUIRED
644(1 & 2)	1 EACH REQUIRED
644(6)	3 TRUCKS AND 1 BOAT REQUIRED



TURNOUT OR 2 LANE WIDENING DETAILS

(SYMMETRICAL ABOUT CENTERLINE)



MUSKEG CONSTRUCTION DETAIL

APPROXIMATE AREAS ARE AS FOLLOWS, OTHER AREAS WILL BE AS DIRECTED.

"L" STATION	TO	"L" STATION
140+00	TO	144+00
156+00	TO	158+00
161+00	TO	167+00
201+00	TO	203+00
208+00	TO	213+00

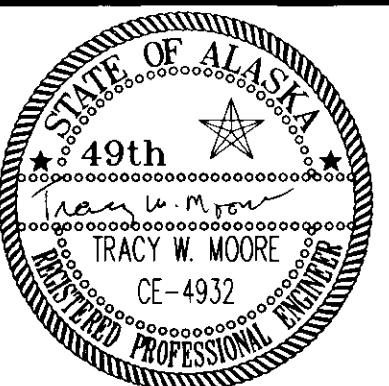
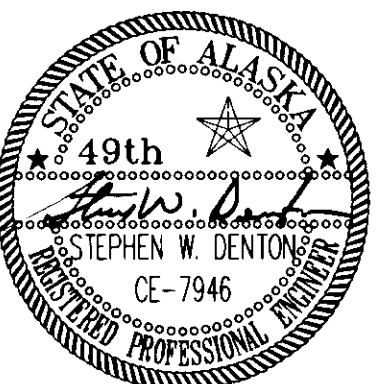
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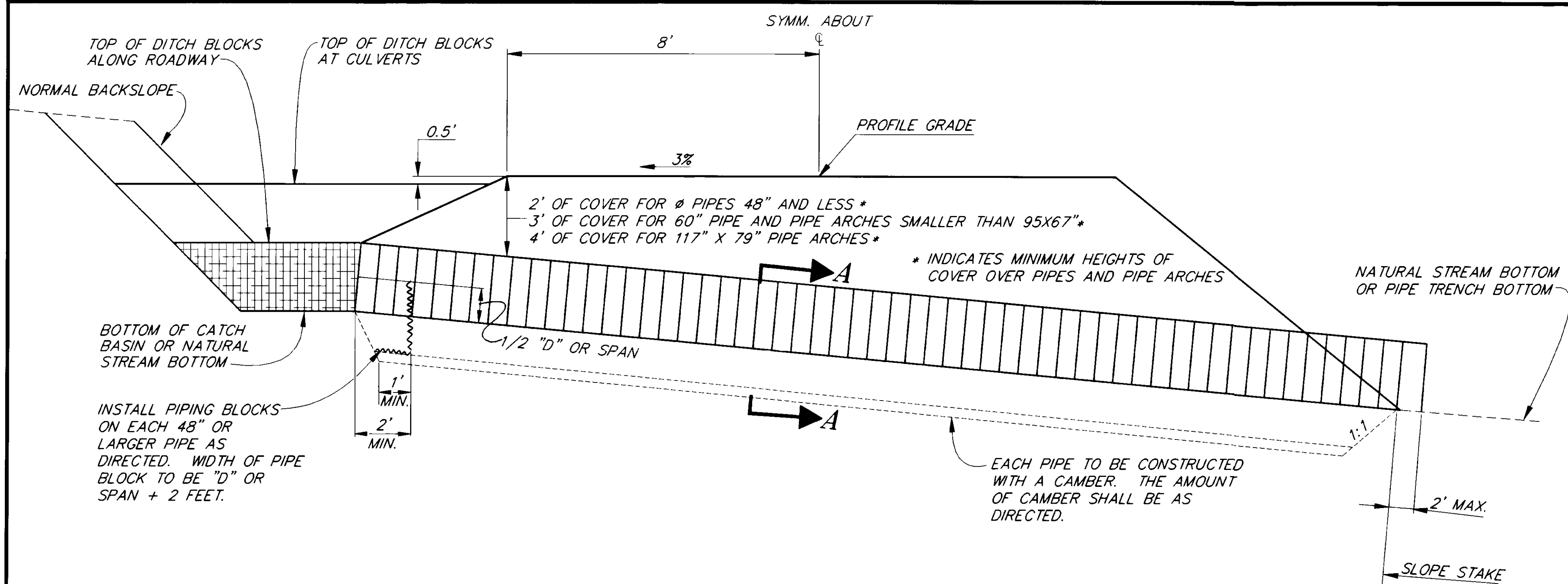
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BY:	DATE:	DESCRIPTION OF CHANGE:

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

PRINCE OF WALES ISLAND
THORNE BAY, ALASKA
SOUTH THORNE BAY ROAD TO KASAAN ROAD
GRADING AND DRAINAGE
PROJECT NO. STP-0003(46)-71947
ESTIMATE OF QUANTITIES

DESIGNED BY: E. CAVAGNARO	PROJECT NO. 71947
DRAWN BY: C. ANDERSON	DATE: 1995
CHECKED BY: T. MOORE	SHEET 3 OF 22

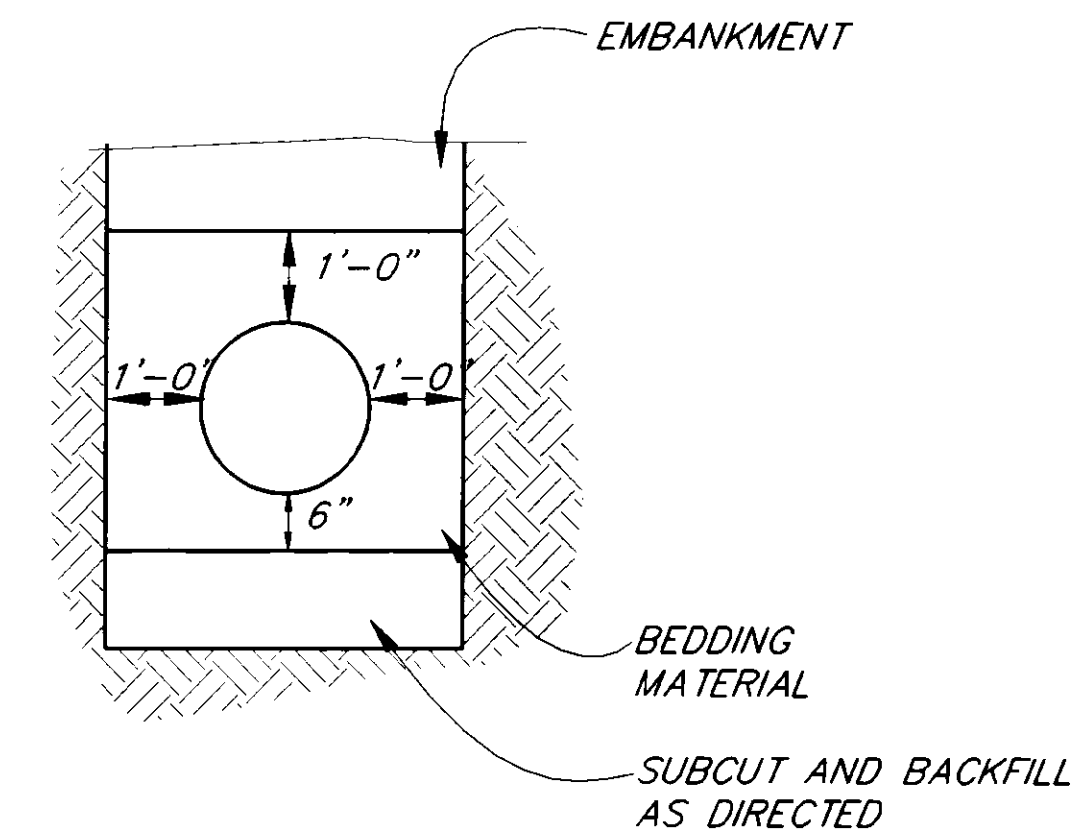




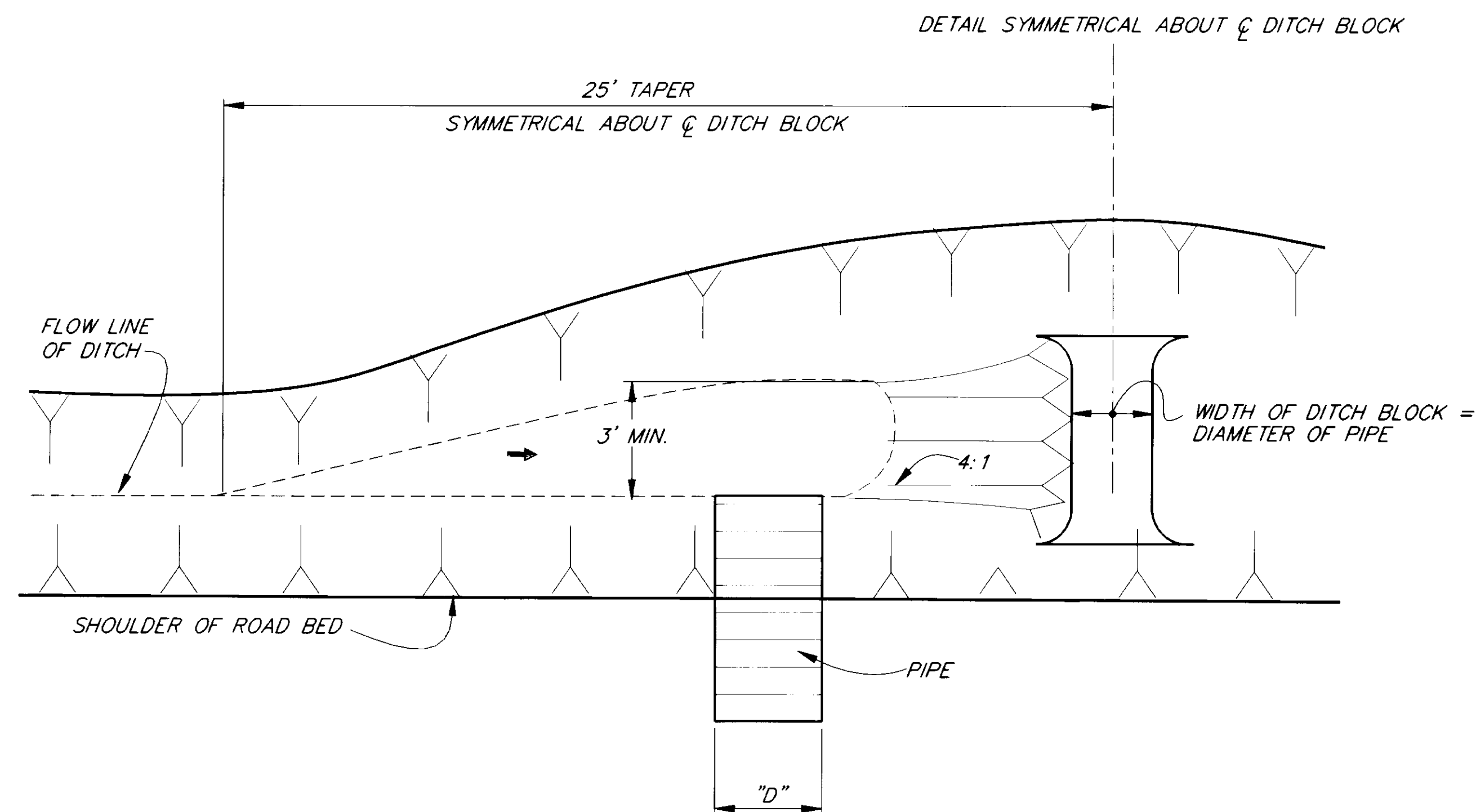
TYPICAL PIPE INSTALLATION

SEE SHEET FOR ADDITIONAL INSTALLATION DETAILS ON PIPE ARCHES

- PIPE NOTES**
1. PIPE LOCATIONS AS SHOWN ON THE PLAN AND PROFILE SHEETS ARE APPROXIMATE.
 2. PIPE ALIGNMENTS AND GRADIENTS SHALL MATCH THE NATURAL STREAM BEDS, UNLESS OTHERWISE DIRECTED, OR HAVE A MINIMUM PIPE GRADE OF 2%.
 3. ALL PIPE AND PIPE ARCHES SHALL BE FURNISHED IN 12 GAUGE (0.105"±). ALL PIPE ARCHES SHALL BE FURNISHED IN 3" X 1" CORRUGATIONS.
 4. ALL PIPES SHALL BE INSTALLED AS NOTED IN THE EROSION AND SEDIMENT CONTROL PLAN.



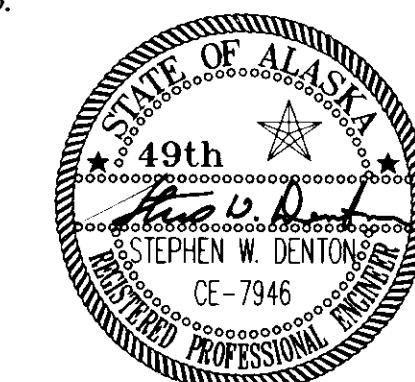
SECTION A-A



TYPICAL DITCH BLOCK DETAIL AT CULVERTS ON GRADES OF 6 PERCENT OR MORE

STREAM NAME	APPROX. "P" LINE STATION	APPROX. AREA ACRE	DESIGN AREA Q50	DESIGN HIGH WATER D	EXCEEDANCE PROBABILITY	NATURAL STREAM GRADE AT CROSSING	PIPE OR BRIDGE DATA	
							SIZE	ESTMTD. LENGTH
STELLER'S JAY CREEK	38+30 (A)	364	300	1.0	0.02	2%	117 X 79	50-60'
WREN CREEK NORTH CHANNEL	8+80 (A)	290	230	1.0	0.02	-2% - 0%	81 X 59	46-60'
WREN CREEK SOUTH CHANNEL	99+63 (A)	230	180	1.0	0.02	-2% - 1%	95 X 67	46-60'
GROUSE CREEK	100+50 (A)	290	230	1.0	0.02	-1% - 0%	81 X 59	46-60'
LOON CREEK CROSSING	182+75 (A)	1290	1030	1.0	0.02	3%	BRIDGE	
UNNAMED	101+00	185+25		1.0	0.02	-+ 0%	48"	66-80'
UNNAMED	194+00	200+20		1.0	0.02	-+ 0%	48"	46-50'
UNNAMED	212+70			1.0	0.02	+	48"	40'
UNNAMED	219+93	223+00		1.0	0.02	-+ 0%	60"	60'
NORTH TOLSTOI CR. TRIBUTARY #2	234+70 (A)	111+00317	310	1.0	0.02	4%	117 X 79	56-60'
NORTH TOLSTOI CR. TRIBUTARY #1	257+30 (A)	150+00327	72	1.0	0.02	3%	66 X 51	46-60'
UNNAMED	278+55 (A)	210+00120	97	1.0	0.02	-+ 1%	48"	48-60'

(A) SEE APPENDIX "A" FOR IN-WATER WORK DATES AND OTHER RESTRICTIONS * MATCH SLOPE OF EXISTING STREAM BEDS.
 (B) PIPE CAMBER NOT REQUIRED



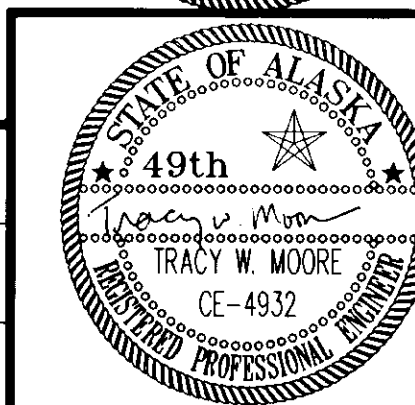
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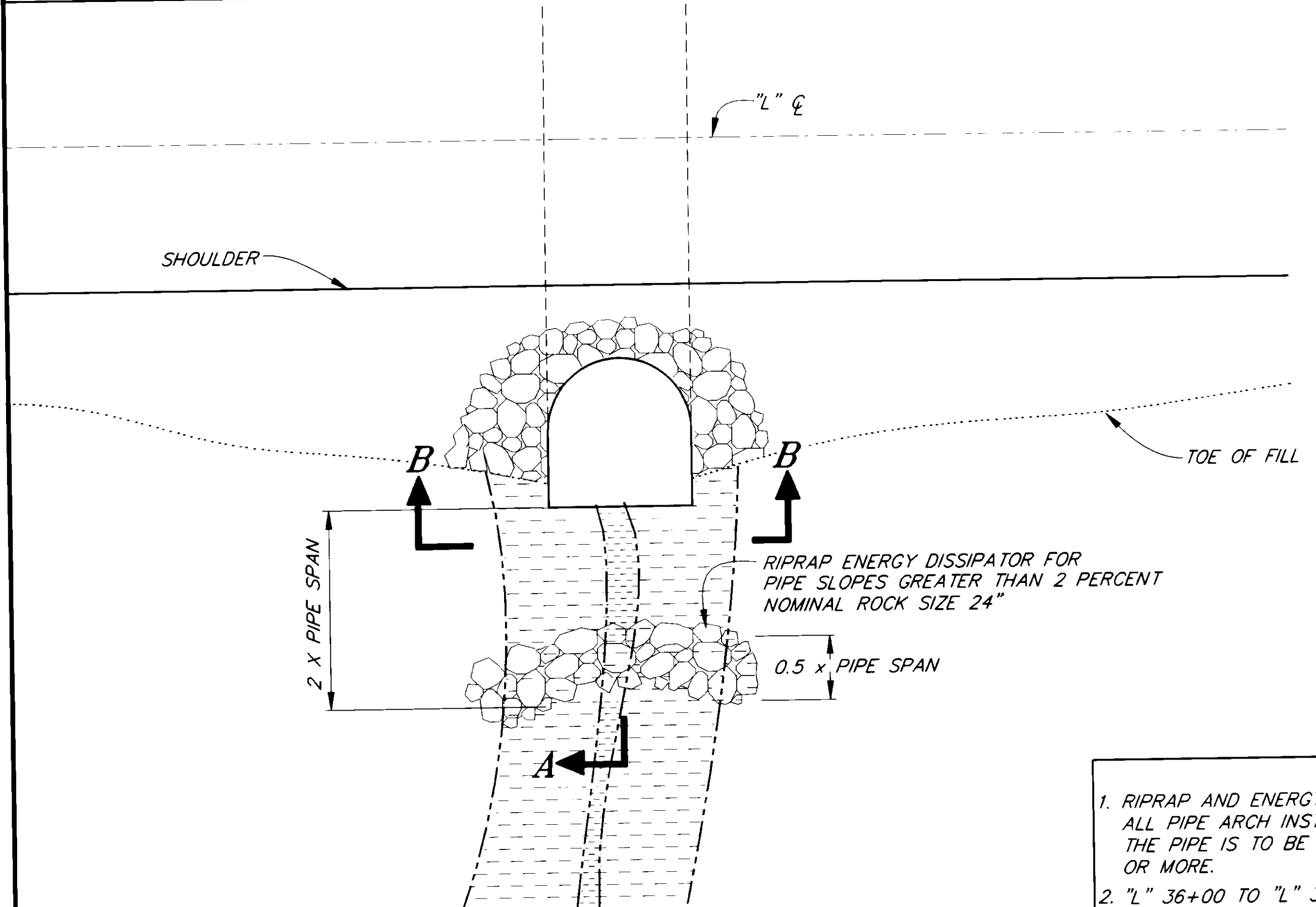
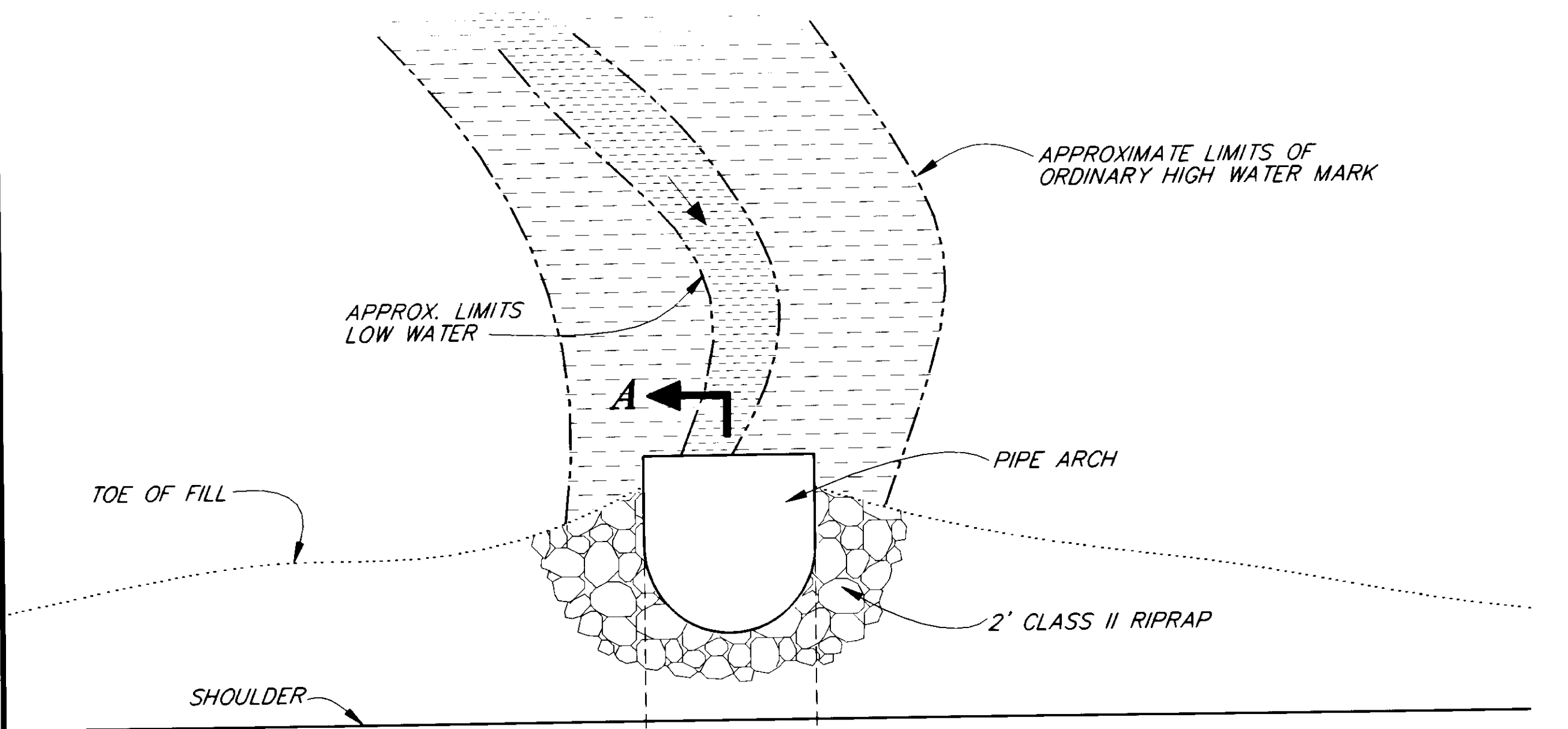
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BY: _____	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	SOUTH THORNE BAY ROAD TO KASAAN ROAD GRADING AND DRAINAGE PROJECT NO. STP-0003(46)-71947	
DATE: _____	SOUTHEAST REGION DESIGN & CONSTRUCTION	DRAINAGE DETAILS	
DESCRIPTION OF CHANGE: _____		DESIGNED BY: E. CAVAGNARO	PROJECT NO. 71947
		DRAWN BY: C. ANDERSON	DATE: 1995
		CHECKED BY: T. MOORE	SHEET 4 OF 22

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

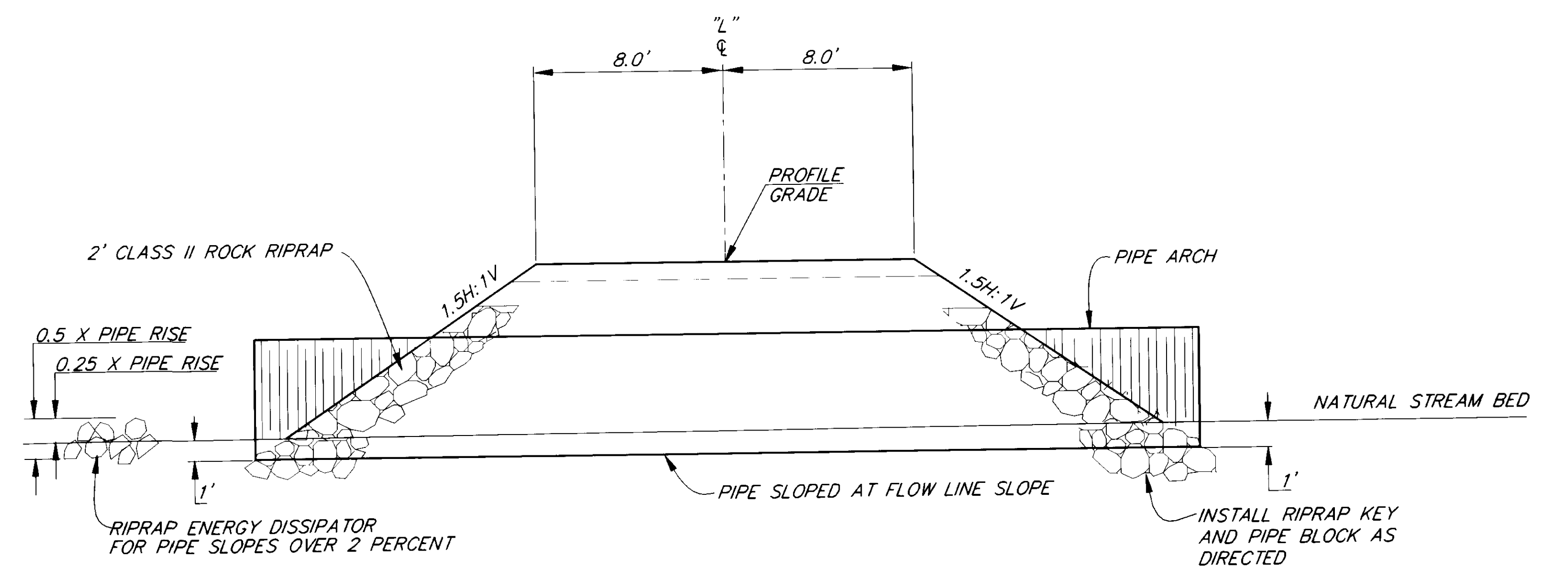
PRINCE OF WALES, ISLAND
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DESIGNED BY: E. CAVAGNARO
 DRAWN BY: C. ANDERSON
 CHECKED BY: T. MOORE
 PROJECT NO. 71947
 DATE: 1995
 SHEET 4 OF 22

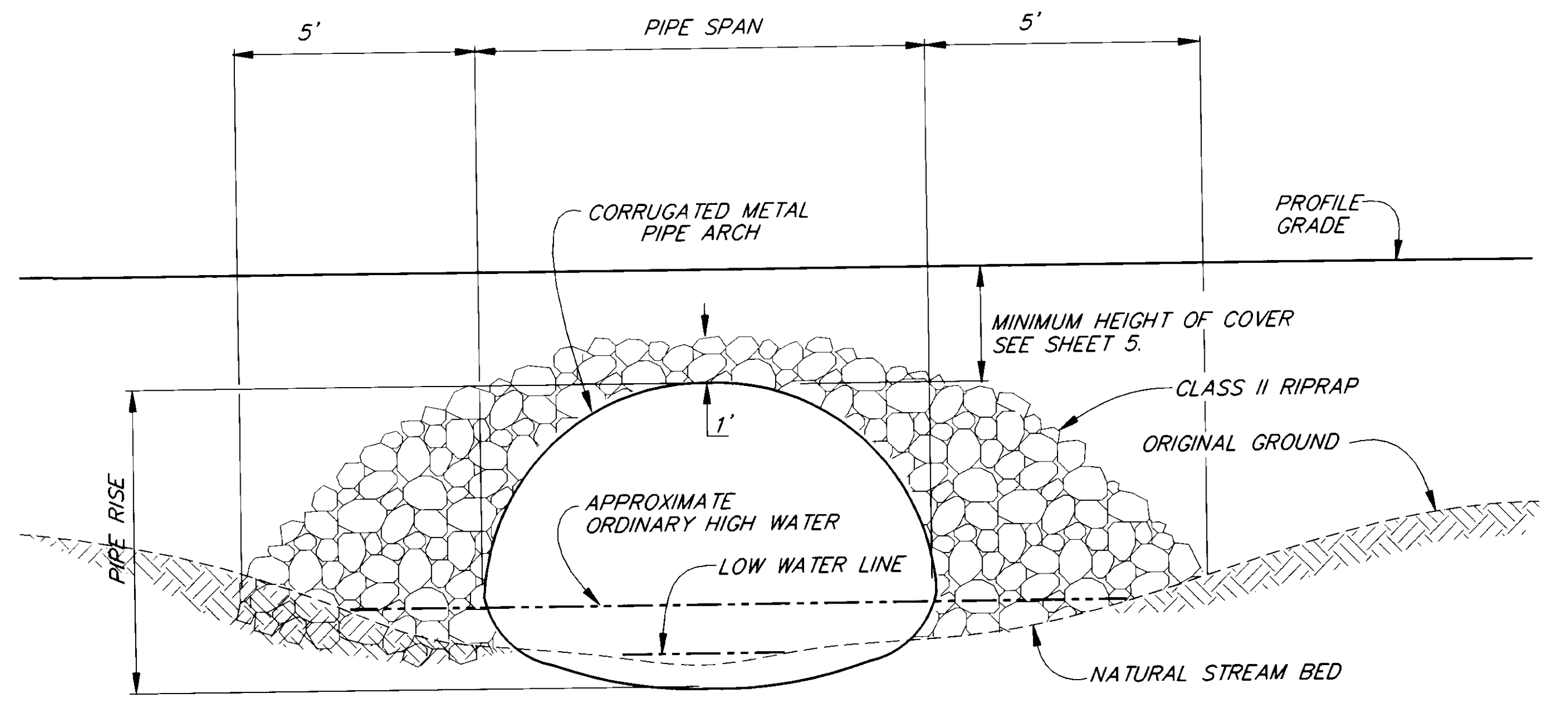




**PLAN
PIPE ARCH**



SECTION A-A



SECTION B-B

NOTES:

- RIPRAP AND ENERGY DISSIPATORS REQUIRED AT ALL PIPE ARCH INSTALLATIONS WHERE THE GRADE THE PIPE IS TO BE INSTALLED ON IS 2 PERCENT OR MORE.
- "L" 36+00 TO "L" 38+00 AND "L" 98+00 TO "L" 101+00 RT., INSTALL 2 FEET OF CLASS II RIPRAP ON ALL EMBANKMENT SLOPES.

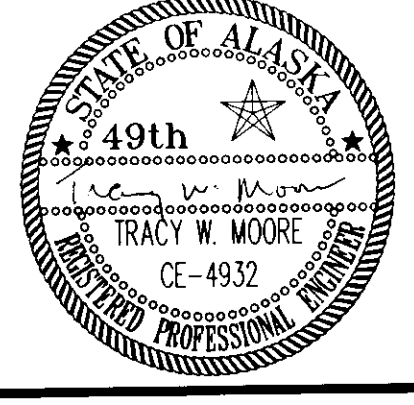
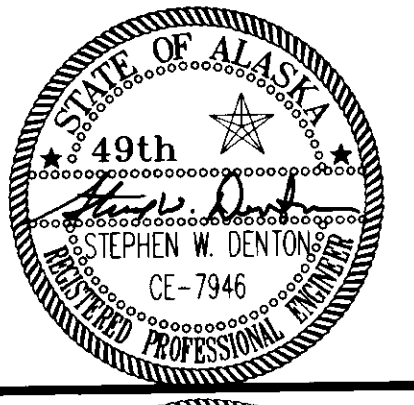
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RECORD OF REVISIONS		

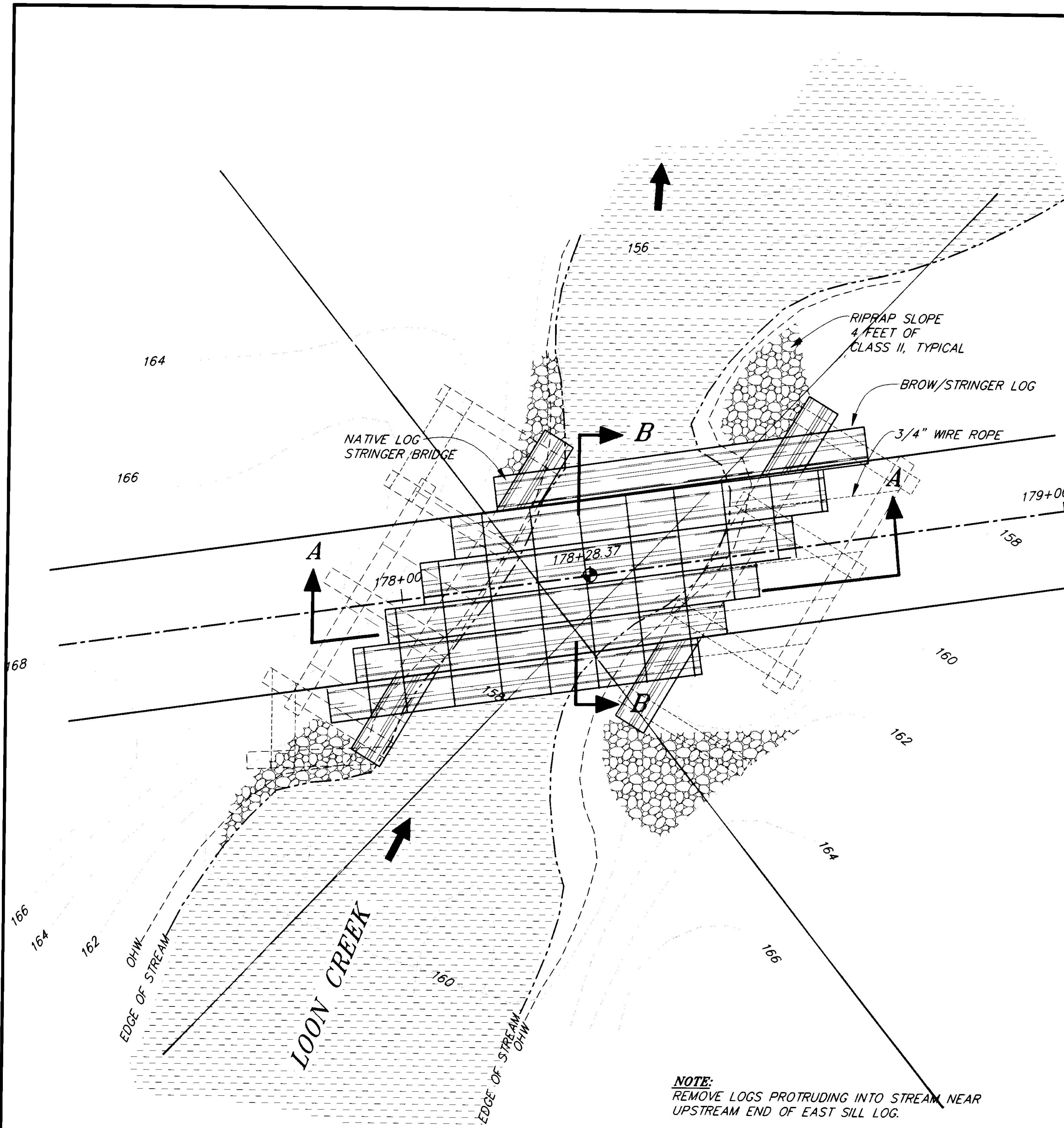
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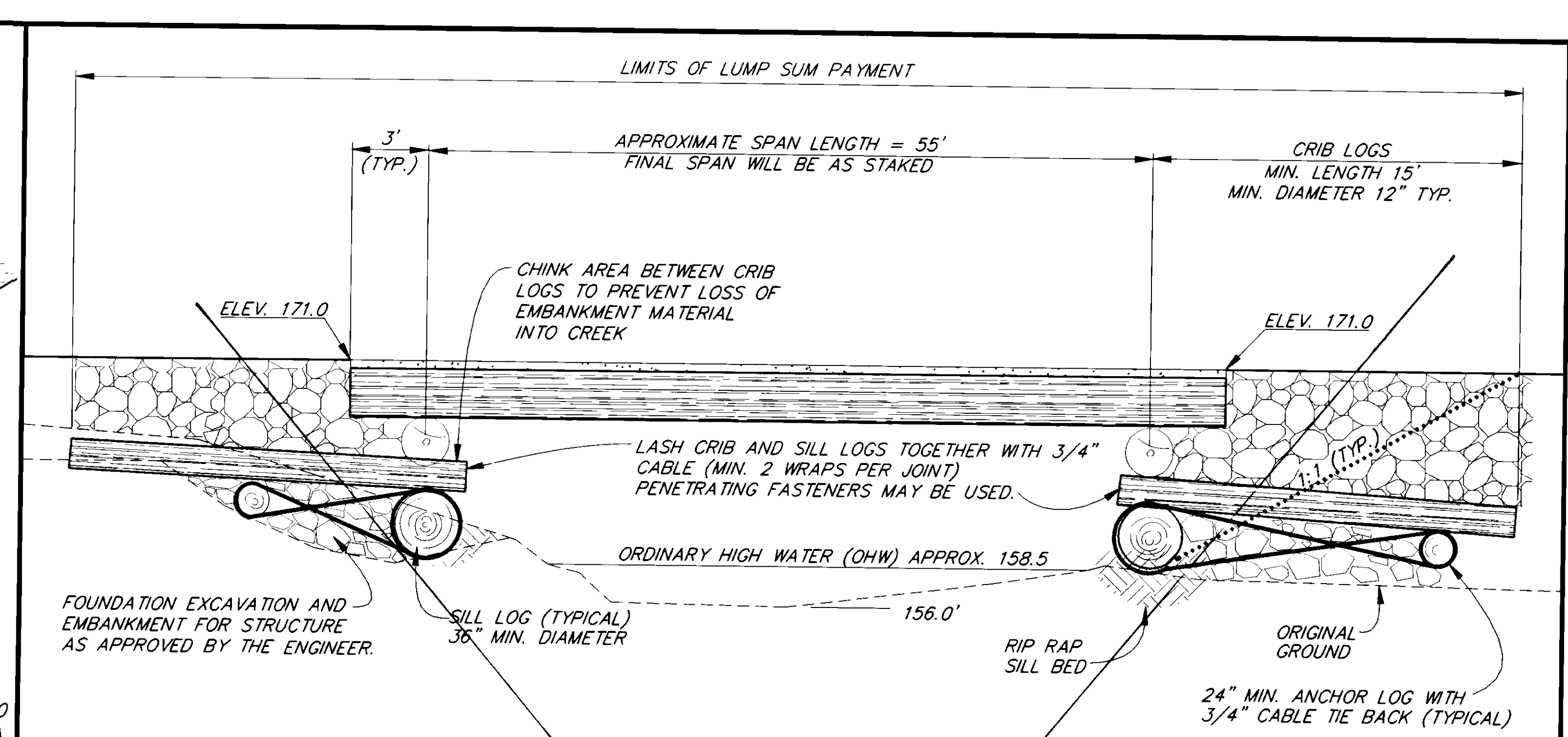
DESIGNED BY: C. HAKARI	PROJECT NO. 71947
DRAWN BY: C. ANDERSON	DATE: 1995
CHECKED BY: T. MOORE	SHEET 5 OF 22



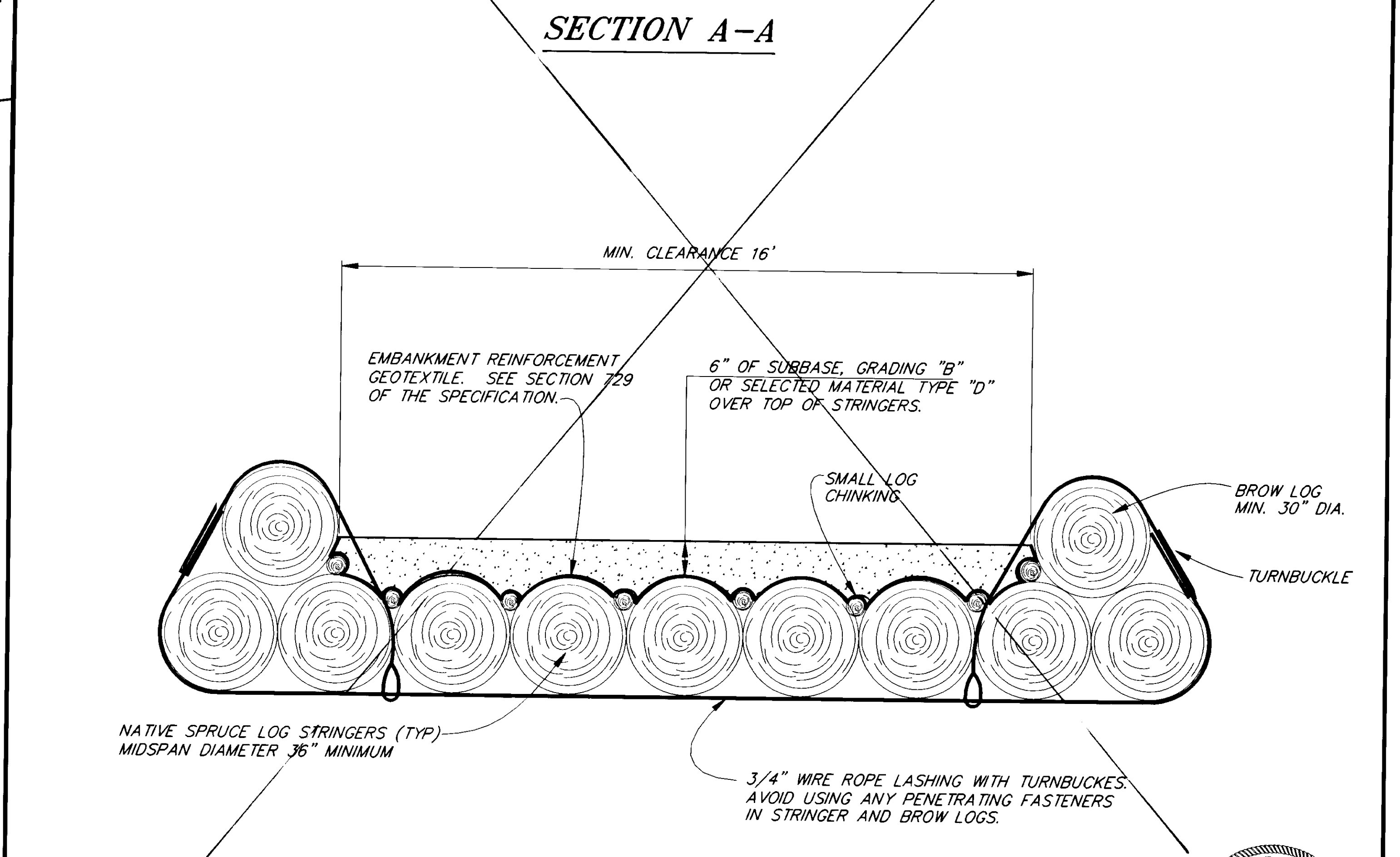


LOON CREEK BRIDGE SITE PLAN

NOTE:
REMOVE LOGS PROTRUDING INTO STREAM NEAR
UPSTREAM END OF EAST SILL LOG.



SECTION A-A



SECTION B-B

Not Used

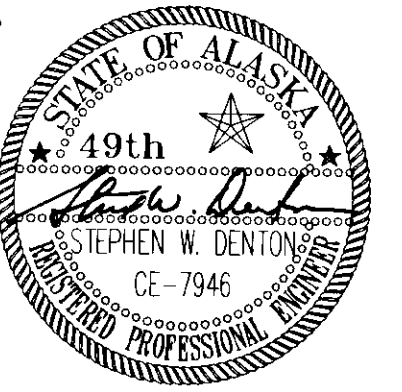
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RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

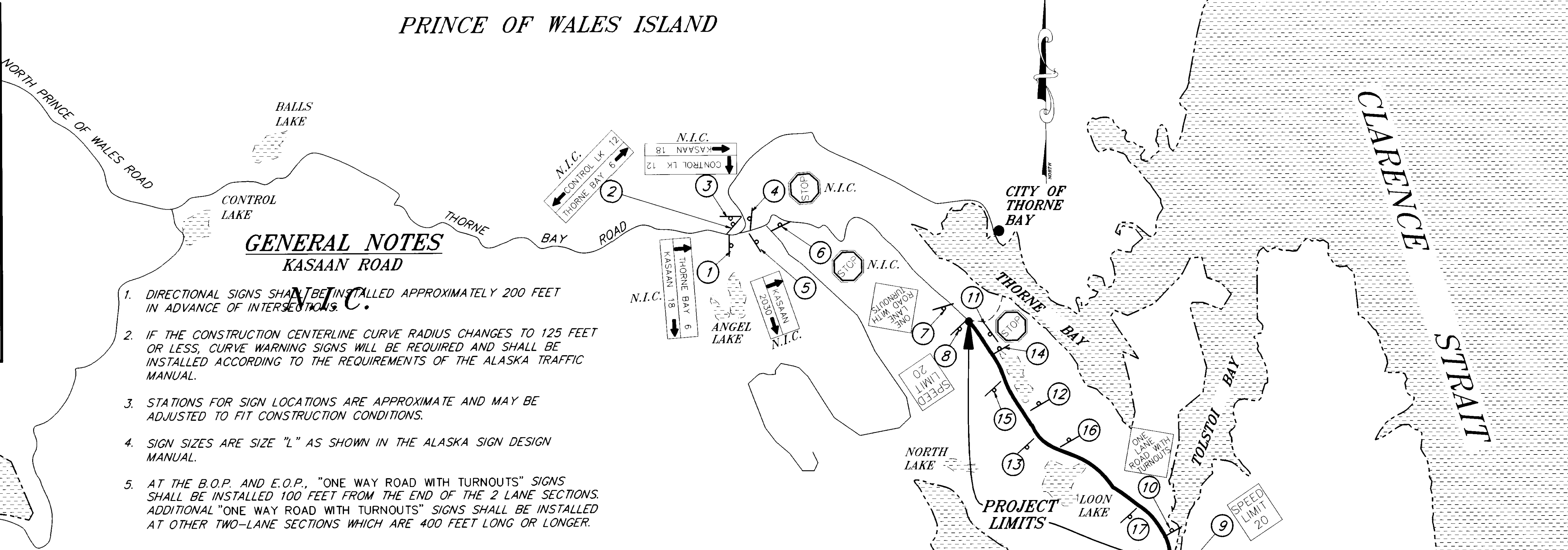
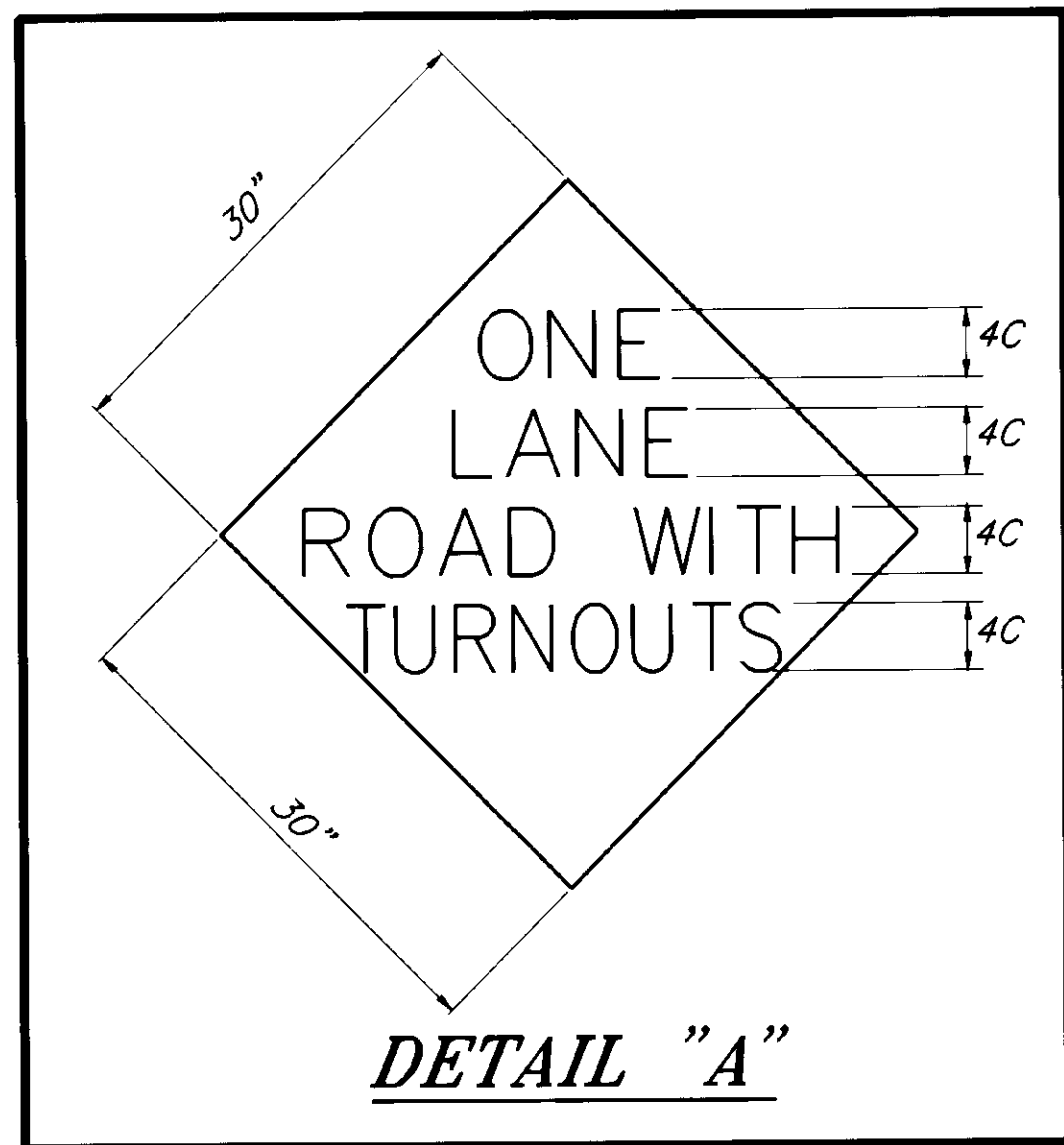
STATE OF ALASKA
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PRINCE OF WALES, ISLAND THORNE BAY, ALASKA
SOUTH THORNE BAY ROAD TO KASAAN ROAD
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PROJECT NO. STP-0003(46)-71947
LOON CREEK BRIDGE DETAILS

DESIGNED BY: <i>C. HAKARI</i>	PROJECT NO. 71947
DRAWN BY: <i>C. ANDERSON</i>	DATE: 1995
CHECKED BY: <i>T. MOORE</i>	SHEET 6 OF 22



PRINCE OF WALES ISLAND



GENERAL NOTES
KASAAN ROAD

1. DIRECTIONAL SIGNS SHALL BE INSTALLED APPROXIMATELY 200 FEET IN ADVANCE OF INTERSECTIONS.
2. IF THE CONSTRUCTION CENTERLINE CURVE RADIUS CHANGES TO 125 FEET OR LESS, CURVE WARNING SIGNS WILL BE REQUIRED AND SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS OF THE ALASKA TRAFFIC MANUAL.
3. STATIONS FOR SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO FIT CONSTRUCTION CONDITIONS.
4. SIGN SIZES ARE SIZE "L" AS SHOWN IN THE ALASKA SIGN DESIGN MANUAL.
5. AT THE B.O.P. AND E.O.P., "ONE WAY ROAD WITH TURNOUTS" SIGNS SHALL BE INSTALLED 100 FEET FROM THE END OF THE 2 LANE SECTIONS. ADDITIONAL "ONE WAY ROAD WITH TURNOUTS" SIGNS SHALL BE INSTALLED AT OTHER TWO-LANE SECTIONS WHICH ARE 400 FEET LONG OR LONGER.

SIGN SUMMARY

NO.	STATION	REF. &	TYPE	FACING	LEGEND	NO. OF POSTS	WDTH. IN.	HI. IN.	AREA SQ. FT.	REMARKS	
1	-	RT	D1-2A	NB	↑ THORNE BAY 6 KASAAN 19 →	2	90	24	15.00	6 INCH U.C., 4.5 INCH L.C.	
2	-	BEHIND	D1-2A	EB	← THORNE BAY 6 CONTROL LK 12 →	2	96	24	16.00	6 INCH U.C., 4.5 INCH L.C.	
3	-	LT	D1-2A	SB	↑ CONTROL LK ← KASAAN 18	2	90	24	15.00	6 INCH U.C., 4.5 INCH L.C.	
4	-	LT	R1-1	WB	STOP	1	30	30	6.25		
5	-	RT	D1-2	EB	↑ KASAAN ← 2030	2	60	24	10.00	6 INCH U.C., 4.5 INCH L.C.	
6	-	RT	R1-1	NB	STOP	1	30	30	6.25		
7	-	RT	W-SPECIAL	SB	ONE LANE ROAD WITH TURNOUTS	1	30	30	6.25	SEE DETAIL "A" AND NOTE 5 ABOVE	
8	B.O.P.	RT	R1-2	SB	SPEED LIMIT 20	1	24	30	5.00	SEE SIGN DESIGN MANUAL	
9	E.O.P.	LT	R2-1	NB	SPEED LIMIT 20	1	24	30	5.00	SEE SIGN DESIGN MANUAL	
10	-	LT	W-SPECIAL	NB	ONE LANE ROAD WITH TURNOUTS	1	30	30	6.25	SEE DETAIL "A" AND NOTE 5 ABOVE	
11	RON'S ROAD/ B.O.P.	LT	R1-1	EB	STOP	1	30	30	6.25		
12	43+00	LT	W-SPECIAL	NB	ONE LANE ROAD WITH TURNOUTS	1	30	30	6.25	SEE DETAIL "A" AND NOTE 5 ABOVE	
13	53+00	RT	W-SPECIAL	SB	ONE LANE ROAD WITH TURNOUTS	1	30	30	6.25	SEE DETAIL "A" AND NOTE 5 ABOVE	
14	32+00	LT	W-SPECIAL	NB	ONE LANE ROAD WITH TURNOUTS	1	30	30	6.25	SEE DETAIL "A" AND NOTE 5 ABOVE	
15	36+50	RT	W-SPECIAL	SB	ONE LANE ROAD WITH TURNOUTS	1	30	30	6.25	SEE DETAIL "A" AND NOTE 5 ABOVE	
16	102+50	LT	W-SPECIAL	NB	ONE LANE ROAD WITH TURNOUTS	1	30	30	6.25	SEE DETAIL "A" AND NOTE 5 ABOVE	
17	106+25	RT	W-SPECIAL	SB	ONE LANE ROAD WITH TURNOUTS	1	30	30	6.25	SEE DETAIL "A" AND NOTE 5 ABOVE	
									TOTAL	66.25 SQ.FT.	

NOT IN CONTRACT

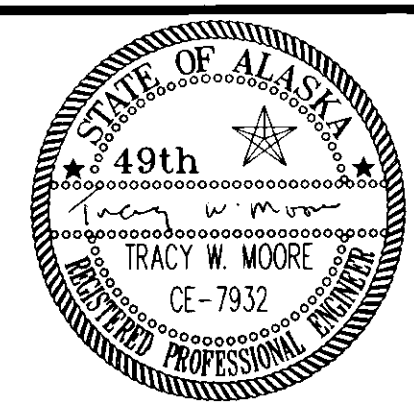
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

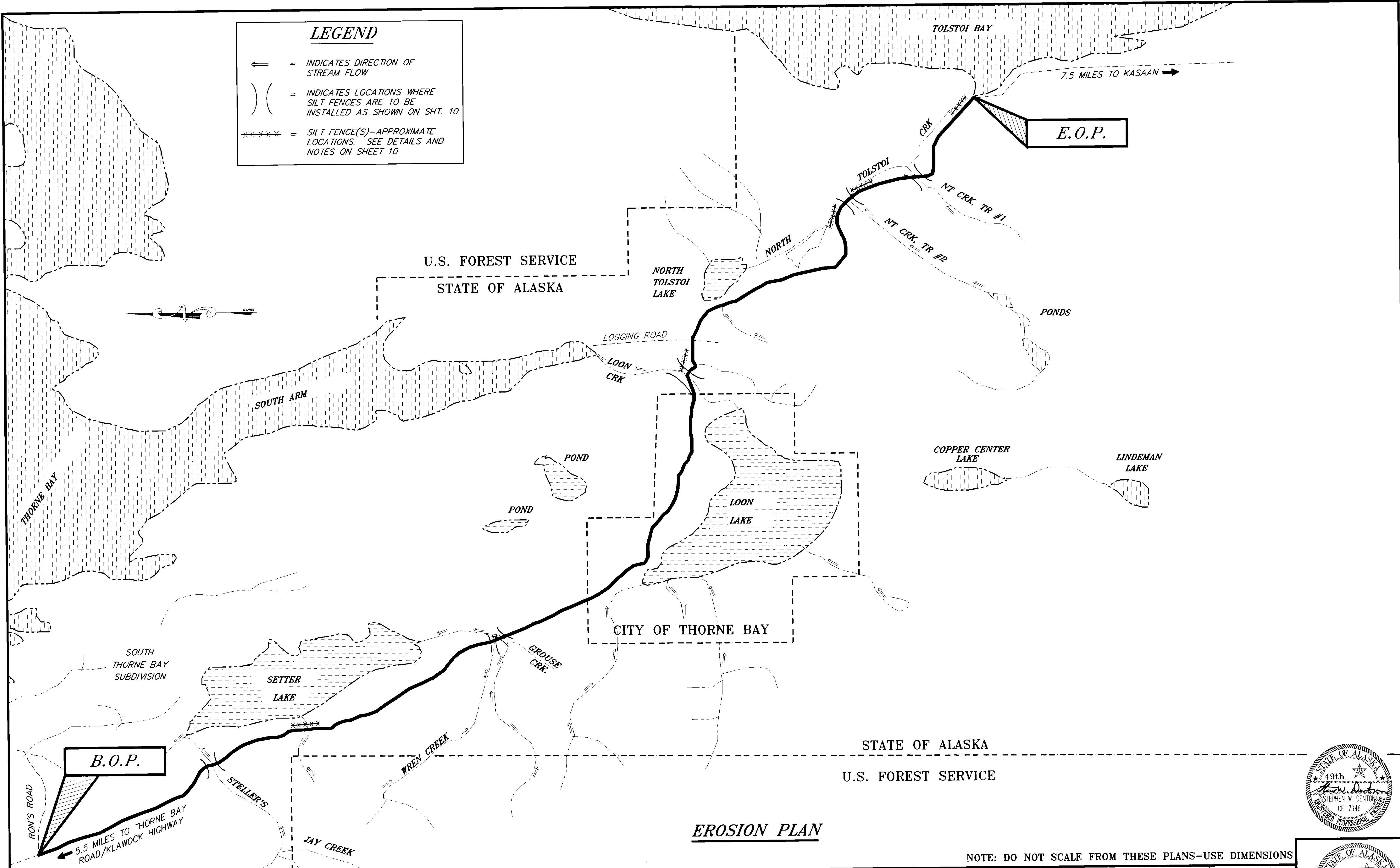
PRINCE OF WALES ISLAND
SOUTH THORNE BAY ROAD TO KASAAN ROAD
GRADING AND DRAINAGE
PROJECT NO. STP-0003(46)-71947
SIGNING AND SUMMARIES

DESIGNED BY: JON AHLGREN	PROJECT NO. 71947
DRAWN BY: C. ANDERSON	DATE: 1995
CHECKED BY: T. MOORE	SHEET 7 OF 22



LEGEND

- ← = INDICATES DIRECTION OF STREAM FLOW
-) (= INDICATES LOCATIONS WHERE SILT FENCES ARE TO BE INSTALLED AS SHOWN ON SHT. 10
- ***** = SILT FENCE(S)-APPROXIMATE LOCATIONS. SEE DETAILS AND NOTES ON SHEET 10



EROSION PLAN

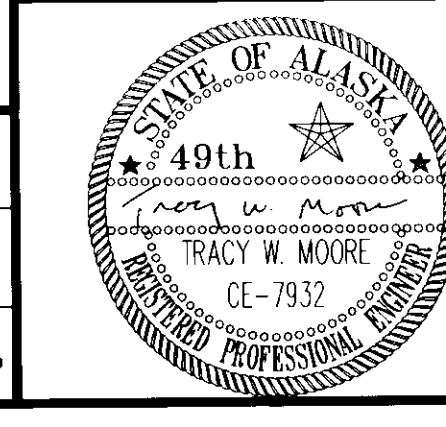
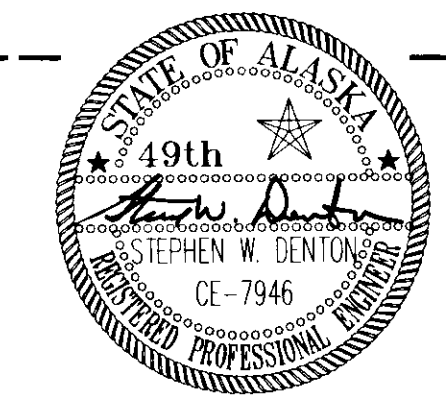
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RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

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

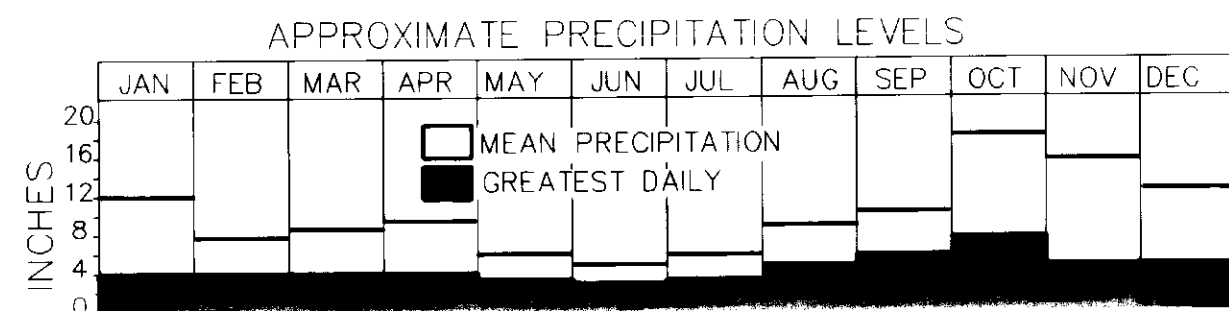
PRINCE OF WALES, ISLAND
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46)-71947
EROSION & SEDIMENT CONTROL PLAN

DESIGNED BY: E. CAVAGNARO	PROJECT NO. 71947
DRAWN BY: C. ANDERSON	DATE: 1995
CHECKED BY: T. MOORE	SHEET 8 OF 22



TEMPORARY EROSION AND SEDIMENT CONTROL NOTES

1. THE AREA TO BE GRUBBED UNDER THIS PROJECT IS APPROXIMATELY 25 ACRES, WHILE THE AREA TO BE CLEARED IS APPROXIMATELY 40 ACRES.
2. COPIES OF THE LATEST EDITION OF THE CONTRACTOR GUIDANCE FOR PREPARING AND EXECUTING STORM WATER POLLUTION PREVENTION PLANS CAN BE OBTAINED BY WRITING MR. JERRY MURPHY, 3132 CHANNEL DRIVE, JUNEAU, ALASKA 99801-7898; OR BY CALLING HIM AT (907) 465-2985. THERE IS A \$20.00 CHARGE FOR EACH COPY OF THE BOOKLET.
3. THE MEAN PRECIPITATION RATE IN THE THORNE BAY AREA IS APPROXIMATELY 120 INCHES PER YEAR AND INCLUDES ABOUT 40 INCHES OF SNOW AT THE HIGHER ELEVATIONS. THE FOLLOWING GRAPH INDICATES THE APPROXIMATE MEAN ANNUAL PRECIPITATION LEVELS AND THE GREATEST DAILY RAIN FALL LEVELS IN THE THORNE BAY AREA.



8. AS THE ROADWAY IS CONSTRUCTED, CHECK DAMS SHALL BE INSTALLED AT THE TOE OF GRANULAR CUTS AS REQUIRED TO STOP SEDIMENT FROM REACHING THE ANADROMOUS FISH STREAMS.
9. IF GRANULAR CUT SLOPES BEGIN TO SHOW EVIDENCE OF SHEET OR RILL TYPE EROSION, SILT FENCES SHALL BE INSTALLED ALONG THE SLOPE AS DIRECTED.
10. ROCK CHECK DAMS AS DETAILED ON SHEET 12 SHALL BE INSTALLED AS SOON AS THE DITCHLINE IS ESTABLISHED.
11. SILT FENCE SHALL BE INSTALLED ALONG THE DOWNHILL SIDE OF THE ROADWAY TO PROTECT WATER BODIES. THESE LOCATIONS SHALL BE ESTABLISHED BY THE ENGINEER AND ARE AREAS WHERE THERE IS INSUFFICIENT NATURAL COVER TO ADEQUATELY FILTER SEDIMENT.

4. THE FOLLOWING TEMPORARY EROSION AND SEDIMENT CONTROL MATERIALS SHALL BE STOCK-PILED IN THORNE BAY PRIOR TO BEGINNING ANY GRUBBING OR EXCAVATION ACTIVITIES:
 - A. 20,000 SQ. FT. OF SOIL STABILIZATION MATERIAL
 - B. 2,000 LINEAR FEET OF SILT FENCE.
 - C. 50 STRAW BALES
 - D. ALL SEEDING AND FERTILIZER REQUIRED TO COMPLETE THE HAND SEEDING OPERATION.
5. PRIOR TO BEGINNING ANY GRUBBING OR EXCAVATION ACTIVITIES NEAR THE FOLLOWING ANADROMOUS FISH STREAMS, SILT FENCES AND CHECK DAMS, AS DETAILED ON SHEET 10 SHALL BE INSTALLED. INSTALLATION OF THESE SILT FENCES MAY BE COMPLETED AT ANYTIME. HOWEVER, THE INSTALLATION OF THE FISH PROOF FENCES, DAMS, PUMPS, SUMPS, PIPES ETC., MAY ONLY BE COMPLETED DURING THE IN-WATER DATES NOTED IN APPENDIX A & B.

NAME OF STREAM	APPROXIMATE "P" LINE STATION
STELLER'S JAY CREEK	38+30
NORTH CHANNEL WREN CREEK	102+20
SOUTH CHANNEL WREN CREEK	103+05
GROUSE CREEK	103+80
LOON CREEK	183+70
NORTH TOLSTOI CREEK, TRIBUTARY NO. 2.	234+70
NORTH TOLSTOI CREEK, TRIBUTARY NO. 1.	257+30

PERMANENT EROSION AND SEDIMENT CONTROL NOTES

1. CHECK DAMS INSTALLED AS TEMPORARY EROSION CONTROL MEASURES ALONG THE TOE OF GRANULAR SLOPE(S) OR ON GRADES OF 6 PERCENT OR GREATER, SHALL BE CLEANED OF SEDIMENTS AND BE LEFT IN PLACE AS DITCH BLOCKS.
2. DITCH BLOCK/CHECK DAMS SHALL BE INSTALLED PRIOR TO DITCHES OUTLETING INTO ANADROMOUS FISH STREAMS.
3. PRIOR TO FINAL INSPECTION, HAND SEEDED AREAS NOT SHOWING A UNIFORM PERENNIAL VEGETATIVE COVER OF 70 PERCENT SHALL BE HYDRO SEEDED AND PAID FOR UNDER ITEM 618(1).

INSTALLATION OF OTHER SILT FENCES WILL BE AS DIRECTED AND PAID FOR UNDER ITEM 641(2).

SILT FENCES LOCATED WITHIN THE EMBANKMENT LIMITS MAY BE ABANDONED IN PLACE.

SILT FENCE LOCATED OUTSIDE EMBANKMENT LIMITS SHALL BE REMOVED SO THAT THE SILT IS NOT DEPOSITED IN THE STREAM.

THE USED SILT FENCING FABRIC SHALL BE REMOVED FROM THE PROJECT LIMITS.

THE SILT FENCES INSTALLED PARALLEL TO THE STREAM AND OUTSIDE THE ROADBED LIMITS SHALL BE MAINTAINED UNTIL THE GRANULAR SLOPES DRAINING TO THESE STREAMS HAVE BEEN SEEDED AND A UNIFORM (PERENNIAL) VEGETATIVE COVER IS GROWING ON 70 PERCENT OF THE AREA(S) REQUIRING SEEDING.

6. SEEDING OF GRANULAR SLOPES. ALL SLOPES COMPLETED BETWEEN APRIL 15 AND SEPTEMBER 15 SHALL BE HAND SEEDED EVERY 14 DAYS OR UPON COMPLETION OF 10,000 SQUARE FEET OF SLOPE.

SLOPES COMPLETED BETWEEN SEPTEMBER 16 AND APRIL 14 SHALL BE COVERED WITH SOIL STABILIZATION MATTING AND SEEDED BETWEEN APRIL 15 AND SEPTEMBER 15.

SEEDING DATES MAY BE ADJUSTED TO FIT THE WEATHER CONDITIONS OCCURING DURING CONSTRUCTION OF THE SLOPES.

PRIOR TO FINAL INSPECTION, HAND SEEDED AREAS NOT SHOWING A UNIFORM PERENNIAL VEGETATIVE COVER OF 70 PERCENT SHALL BE HYDRO SEEDED AND PAID FOR UNDER ITEM 618(1).

7. THE CONTRACTOR IS REQUIRED TO IDENTIFY THE INSTALLATIONS OF THE SILT FENCES IN THE S.W.P.P.P. AND PRESENT THE S.W.P.P.P. 5 DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCE.

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

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

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

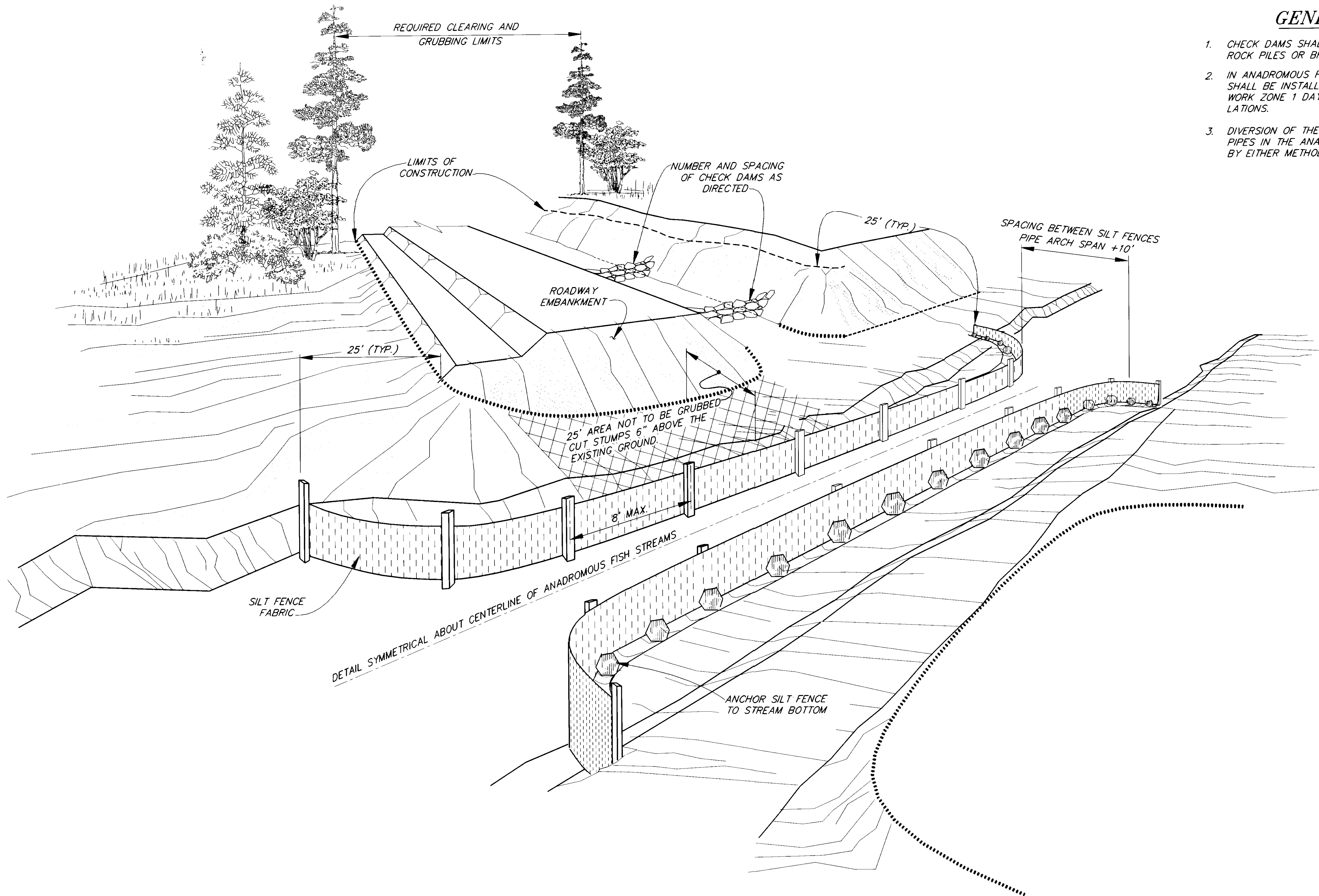
PRINCE OF WALES, ISLAND
THORNE BAY, ALASKA
SOUTH THORNE BAY ROAD TO KASAAN ROAD
GRADING AND DRAINAGE
PROJECT NO. STP-0003(46)-71947
EROSION & SEDIMENT CONTROL NOTES

DESIGNED BY: <i>E. CAVAGNARO</i>	PROJECT NO. 71947
DRAWN BY: <i>C. ANDERSON</i>	DATE: 1995
CHECKED BY: <i>T. MOORE</i>	SHEET 9 OF 22



GENERAL NOTES

1. CHECK DAMS SHALL CONSIST OF STRAW BALES, ROCK PILES OR BRUSH BERMS AT THE CONTRACTOR'S OPTION.
2. IN ANADROMOUS FISH STREAMS, THE FISH PROOF FENCES SHALL BE INSTALLED AND THE FISH EXCLUDED FROM THE WORK ZONE 1 DAY PRIOR TO BEGINNING THE PIPE INSTALLATIONS.
3. DIVERSION OF THE CREEK DURING INSTALLATION OF THE PIPES IN THE ANADROMOUS FISH CREEKS MAY BE DONE BY EITHER METHOD SHOWN ON SHEET 11.



ANADROMOUS FISH STREAM CROSSING DETAILS

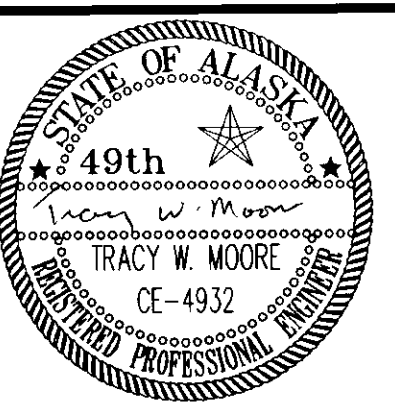
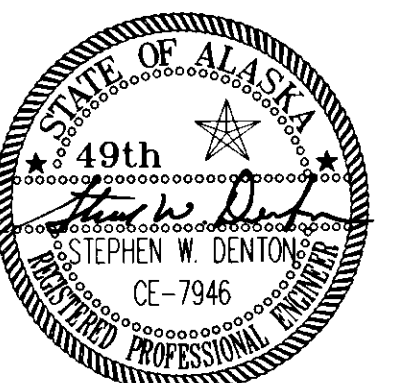
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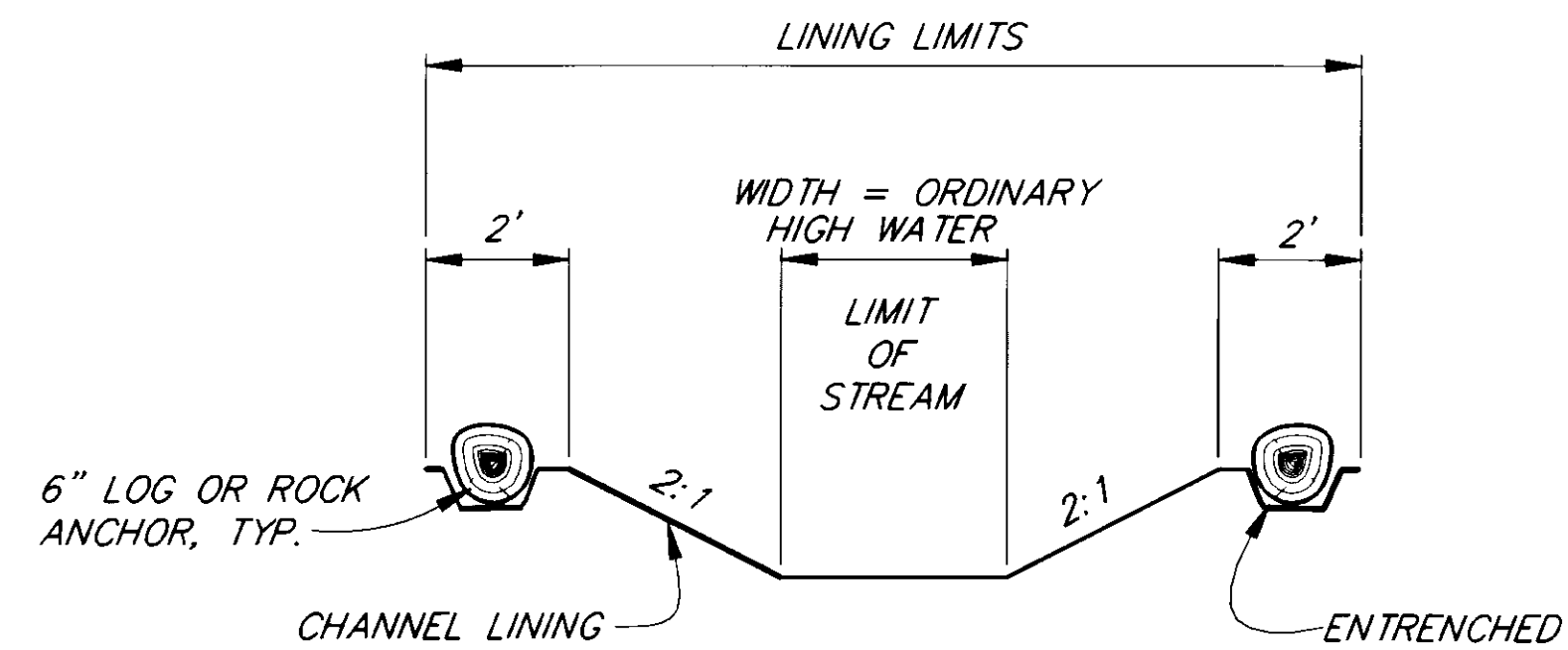
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RECORD OF REVISIONS		

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

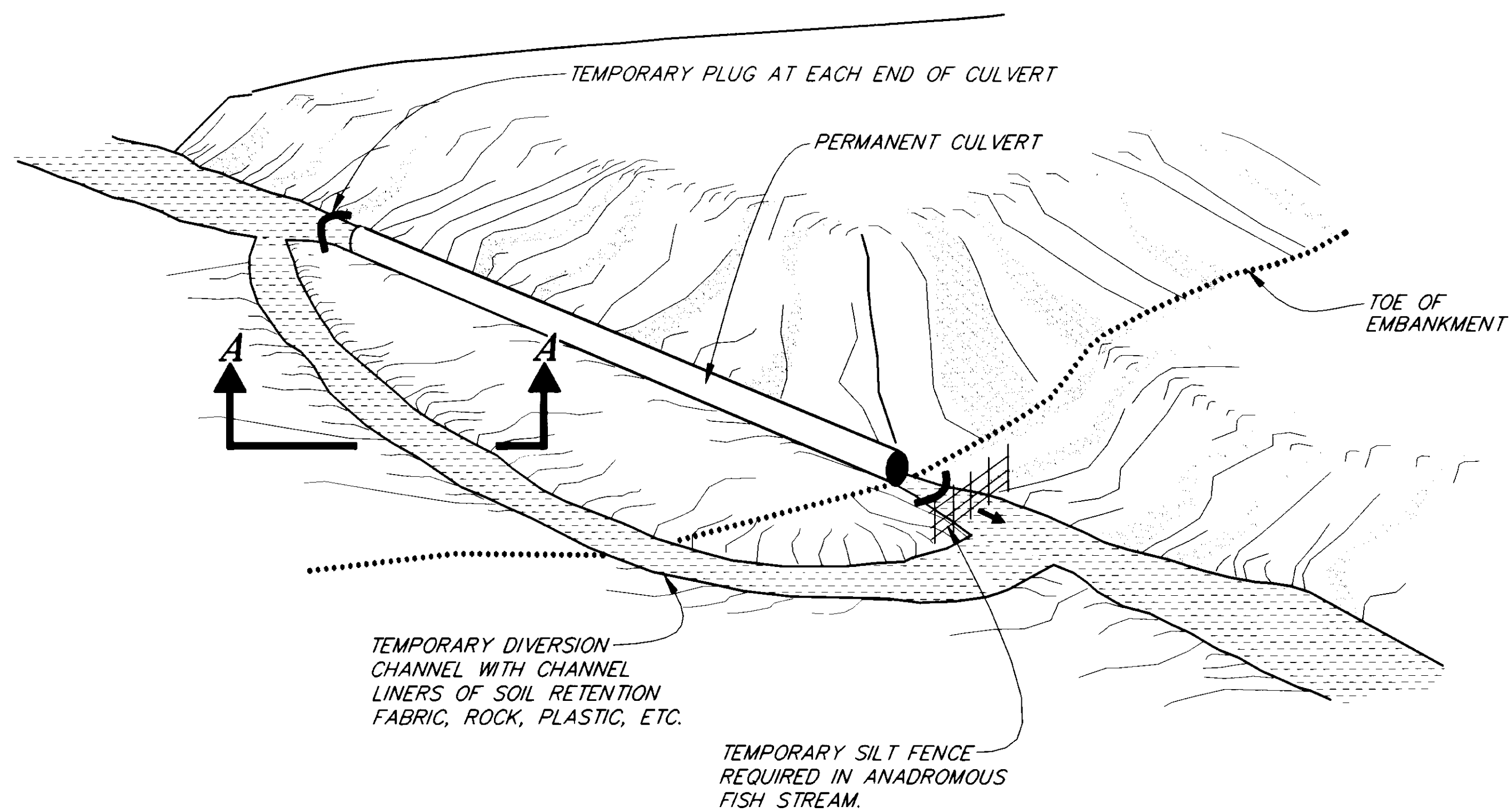
PRINCE OF WALES, ISLAND THORNE BAY, ALASKA
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46)-71947
EROSION AND SEDIMENT CONTROL

DESIGNED BY: E. CAVAGNARO	PROJECT NO. 71947
DRAWN BY: C. ANDERSON	DATE: 1995
CHECKED BY: T.W. MOORE	SHEET 10 OF 22





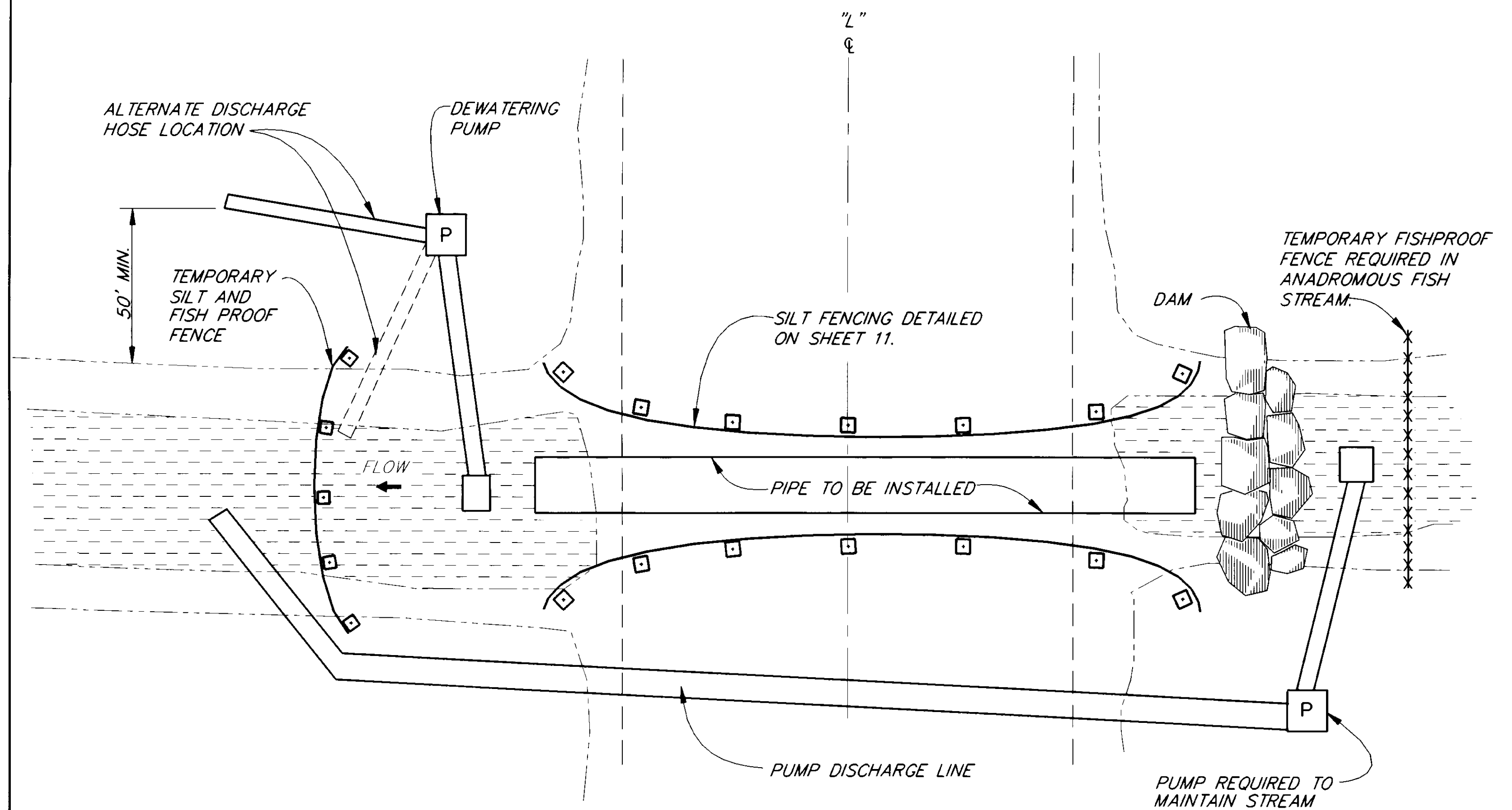
SECTION A-A



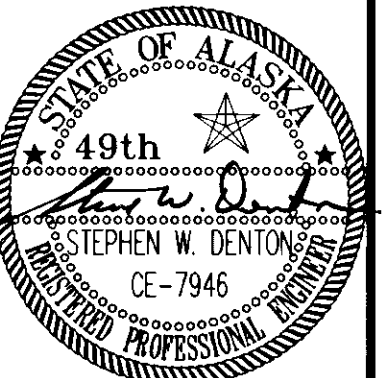
**TYPICAL CULVERT INSTALLATION DETAIL
USING A DIVERSION CHANNEL**

GENERAL NOTES

1. THE CONTRACTOR MAY USE EITHER DETAIL TO INSTALL THE PIPES ON THIS PROJECT OR PROPOSE OTHERS IN HIS S.W.P.P.P.
2. THE INSTALLATION OF SILT AND FISH PROOF FENCES ARE ONLY REQUIRED IN ANADROMOUS FISH STREAMS.



TYPICAL CULVERT INSTALLATION DETAIL USING PUMPS



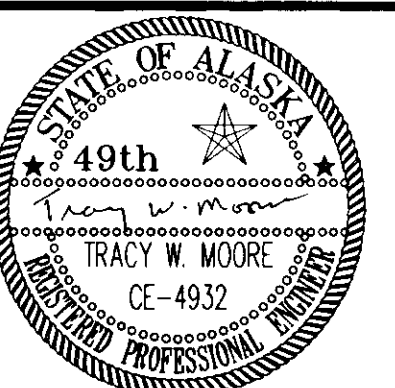
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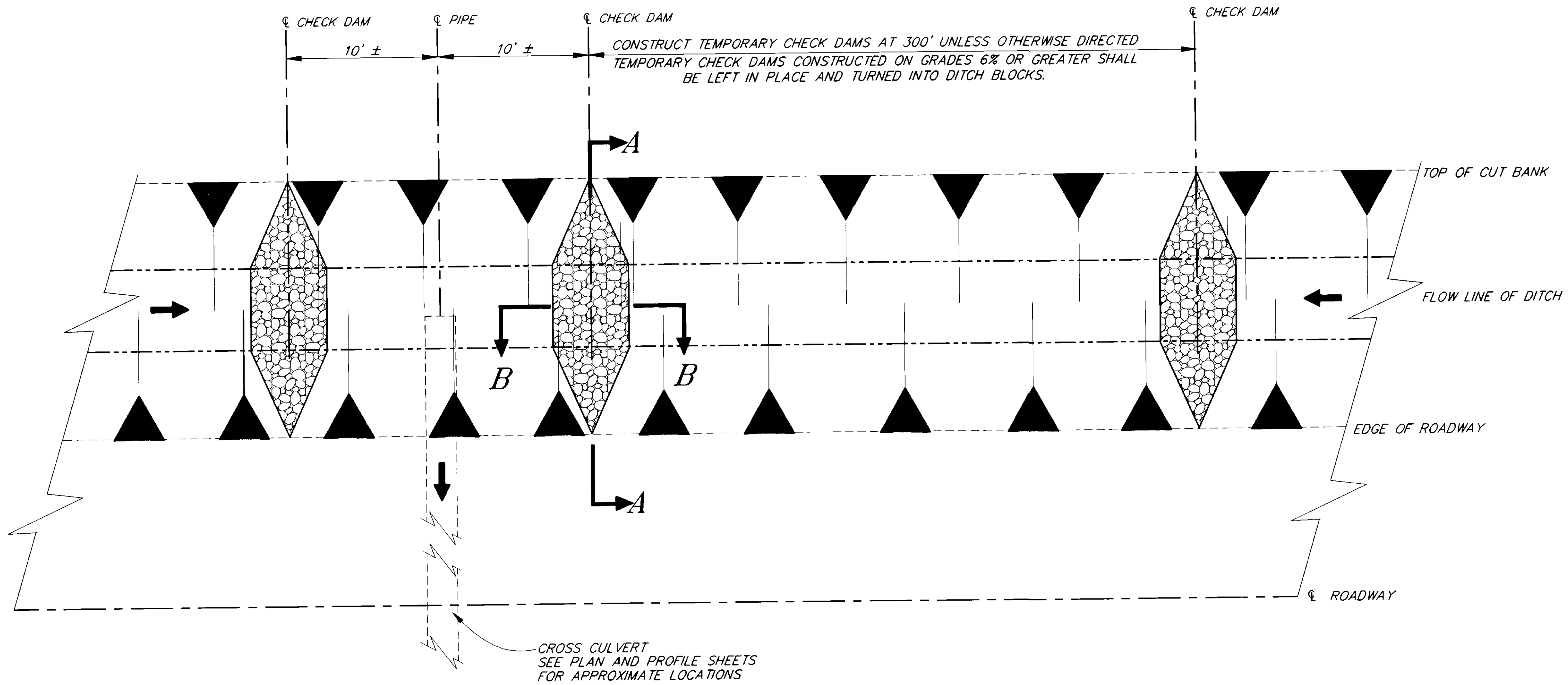
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

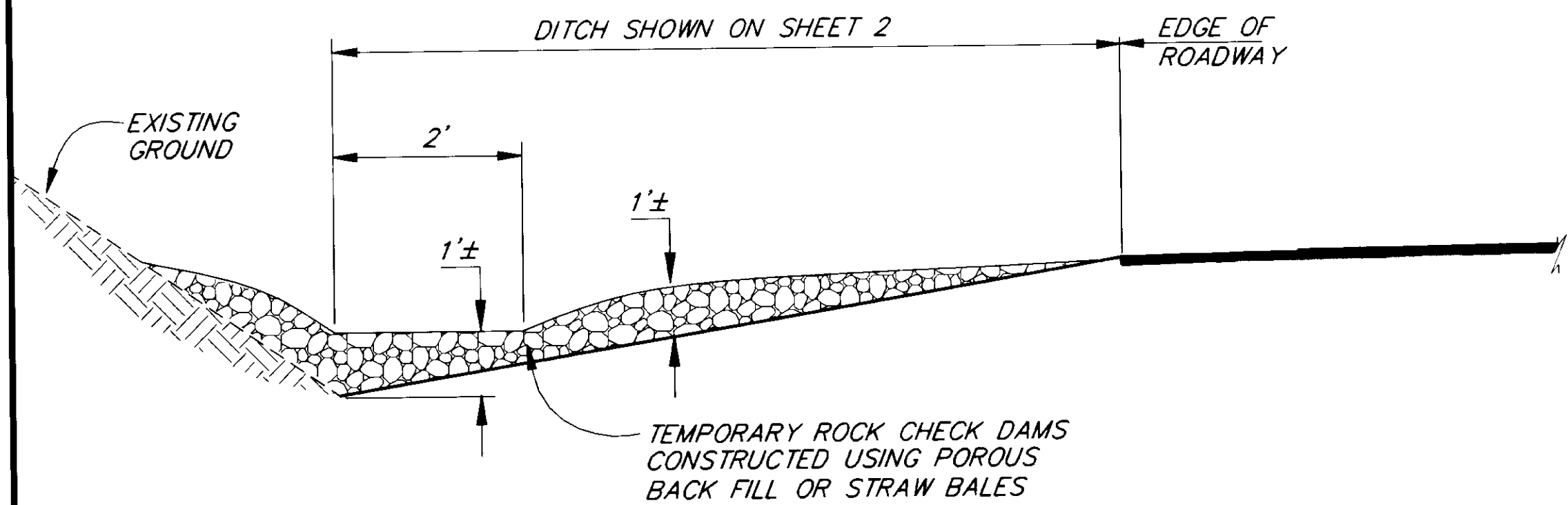
PRINCE OF WALES, ISLAND THORNE BAY, ALASKA
SOUTH THORNE BAY ROAD TO KASAAN ROAD
GRADING AND DRAINAGE
PROJECT NO. STP-0003(46)-71947
EROSION AND SEDIMENT CONTROL

DESIGNED BY: E. CAVAGNARO	PROJECT NO. 71947
DRAWN BY: C. ANDERSON	DATE: 1995
CHECKED BY: T.W. MOORE	SHEET 11 OF 22

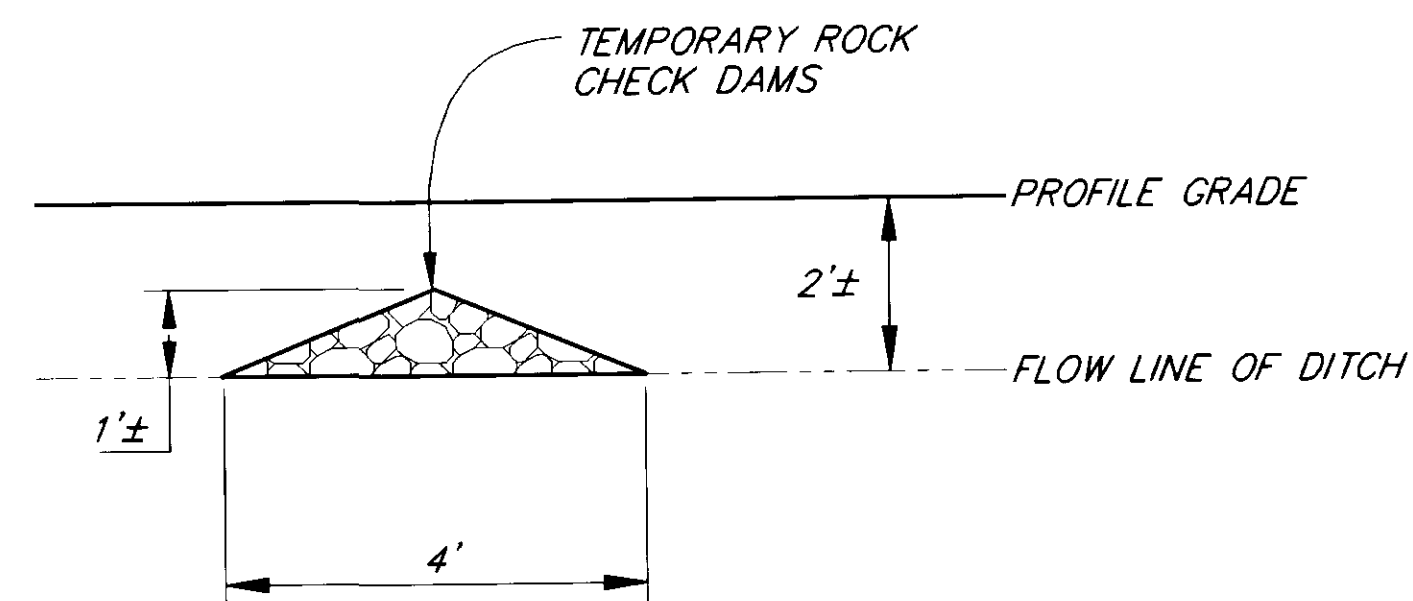




PLAN



SECTION A-A



SECTION B-B

TEMPORARY ROCK CHECK DAM/DITCH BLOCK DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

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

PRINCE OF WALES, ISLAND

THORNE BAY, ALASKA
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46)-71947
EROSION & SEDIMENT CONTROL PLAN

DESIGNED BY:	E. CAVAGNARO	PROJECT NO.	71947
DRAWN BY:	C. ANDERSON	DATE:	1995
CHECKED BY:	T. MOORE	SHEET	12 OF 22



LEGEND

2 LN (LT OR RT) = CONSTRUCT A 2 LANE ROADWAY LEFT OR RIGHT OF THE "L"-LINE.
 TOL OR TOR = CONSTRUCT A TURNOUT LEFT OR RIGHT OF THE "L"-LINE.

THE P AND PR-LINES ARE BASIS OF THE LOCATION SURVEY. THE L-LINE IS THE C THAT THE PROJECT WILL BE BUILT TO.

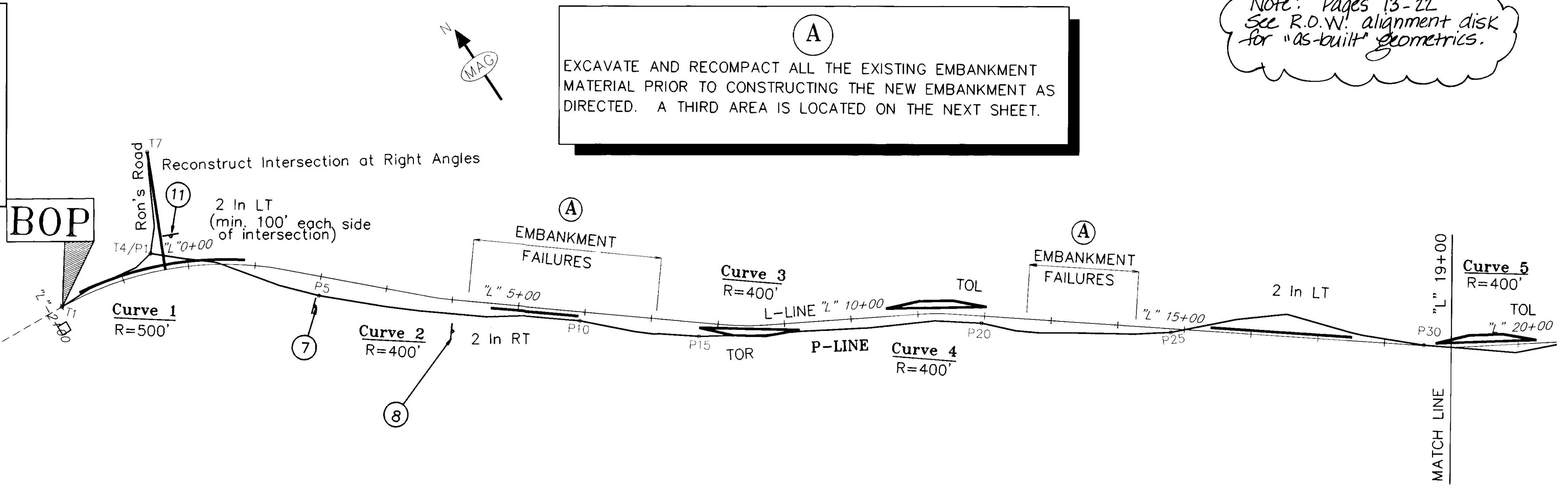
HORIZONTAL CONTROL

THE BASIS OF HORIZONTAL CONTROL FOR THE P-LINE IS A MAGNETIC COMPASS READING. THE ASSUMED COORDINATES FOR T1 ARE N.10,000.00, E.000.00.

STAKING NOTICE

L-LINE PI'S SHALL BE LOCATED USING HORIZONTAL OFFSETS FROM THE 2 NEAREST UNDISTURBED P-LINE POINTS. COORDINATES FOR THE P-LINE AND L-LINE CAN BE FOUND IN APPENDIX C.

Note: Pages 13-22 See R.O.W. alignment disk for "as-built" geometrics.

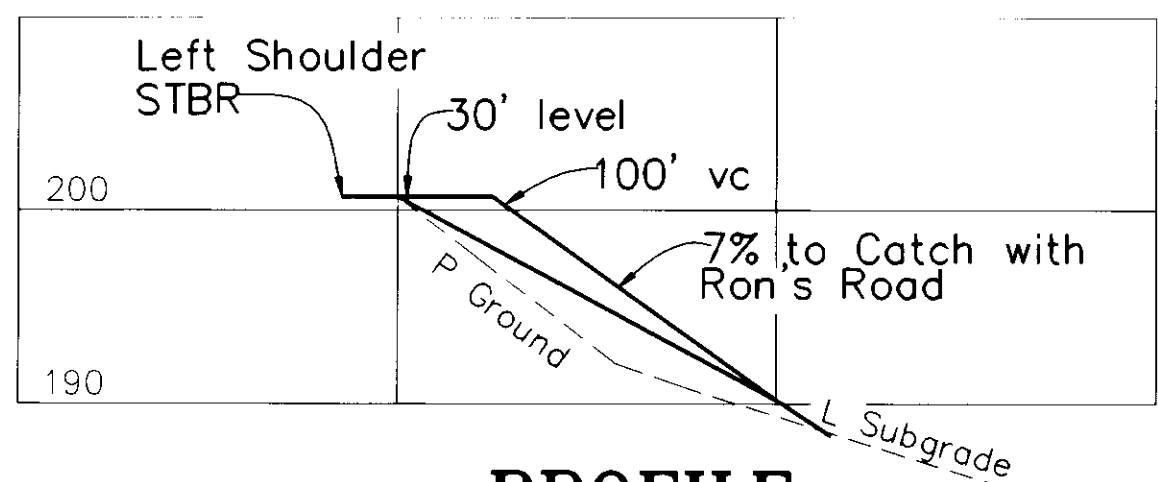


VERTICAL CONTROL

THE BASIS OF THE VERTICAL CONTROL FOR THE P-LINE IS AN ASSUMED ELEVATION OF 200.00' FOR POINT T1.

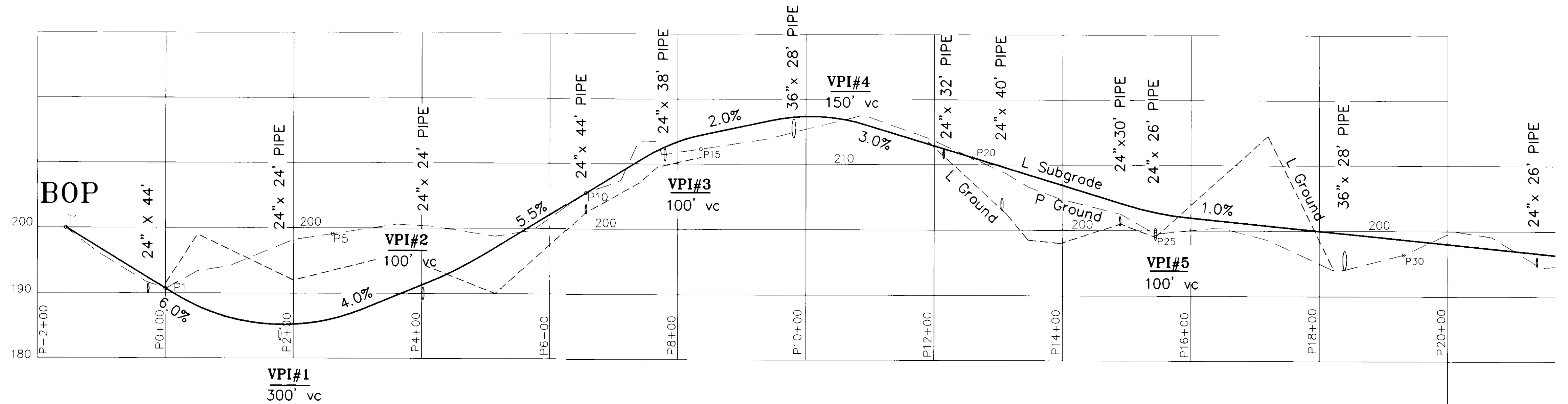
STAKING NOTICE

STAKE THE VPI'S USING THE STATIONS AND ELEVATIONS LOCATED IN APPENDIX "C"



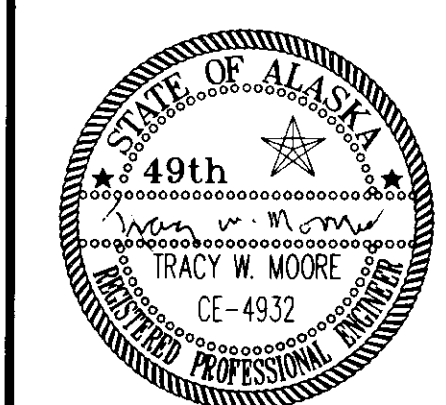
PROFILE

RON'S ROAD INTERSECTION



NOTE: STATIONING SHOWN IN THE PLAN VIEW IS BASED ON THE "L" LINE. THE STATIONING SHOWN IN THE PROFILE VIEW IS BASED ON THE PROFILE STATION 0+00 WHICH IS NOT SHOWN IN THE PLAN VIEW. USE P# POINTS TO COORDINATE THE PLAN AND PROFILE.

DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



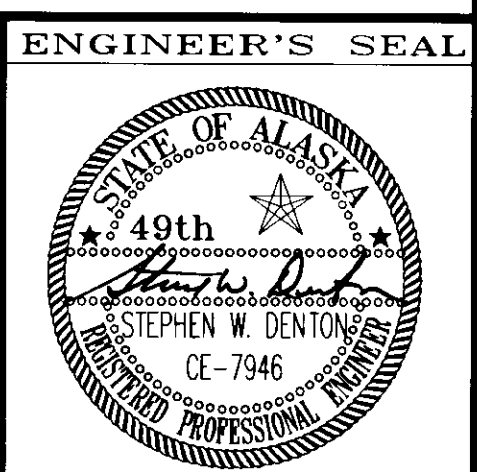
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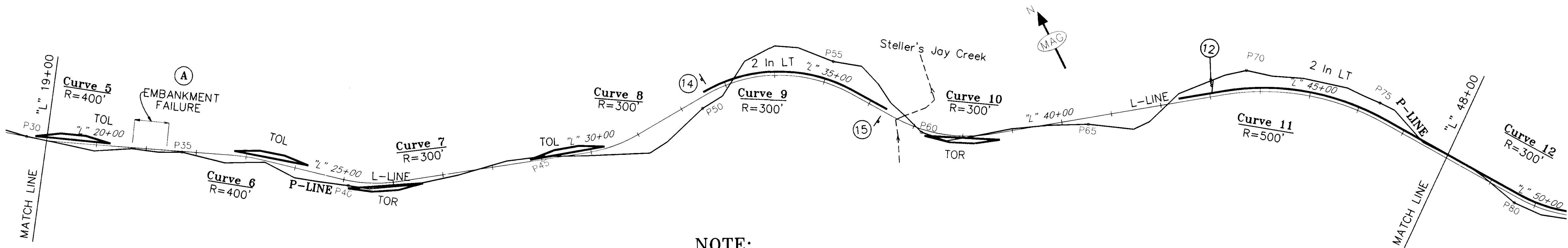
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

PRINCE OF WALES ISLAND THORNE BAY, ALASKA
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46) - 71947
PLAN AND PROFILE
 STA. "L" -2+00 TO STA. "L" 19+00

DESIGNED BY: S. Denton
 DRAWN BY: S. Denton
 CHECKED BY: T.W. MOORE

PROJECT NO. 71947
 DATE: 1995
 SHEET 13 OF 22





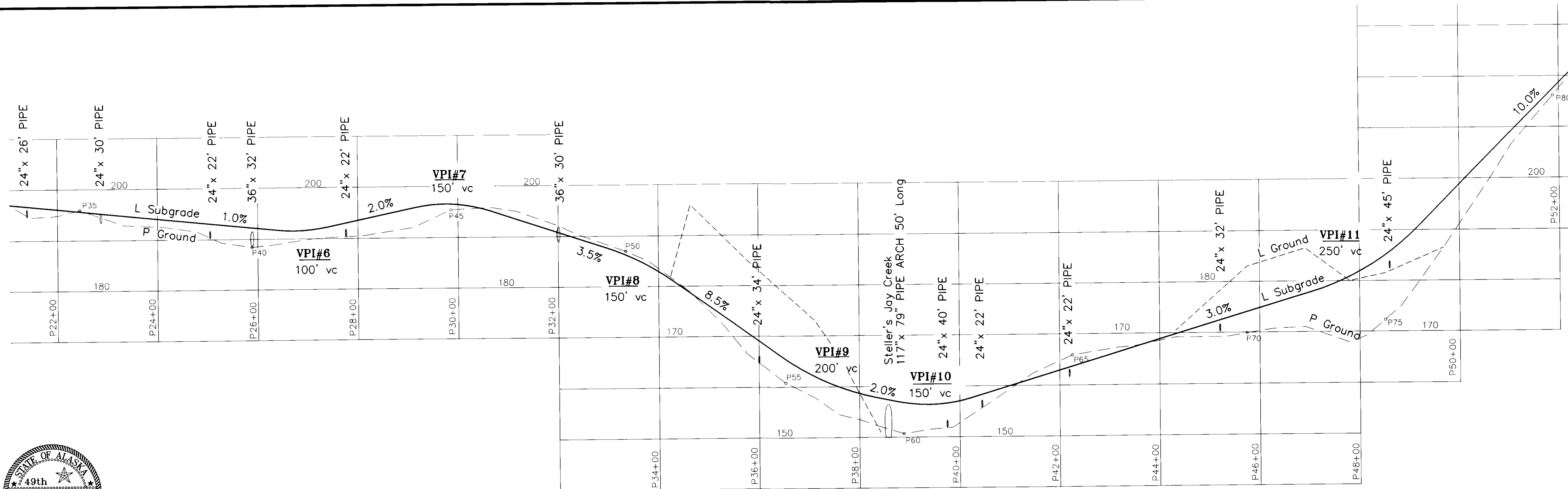
LEGEND

2 LN (LT OR RT) = CONSTRUCT A 2 LANE ROADWAY LEFT OR RIGHT OF THE "L"-LINE.

TOL OR TOR = CONSTRUCT A TURNOUT LEFT OR RIGHT OF THE "L"-LINE.

NOTE:

"L" 36+00 TO "L" 38+00, RT.
 INSTALL 2' OF CLASS II RIPRAP ON ALL EMBANKMENT SURFACES



NOTE: STATIONING SHOWN IN THE PLAN VIEW IS BASED ON THE "L" LINE. THE STATIONING SHOWN IN THE PROFILE VIEW IS BASED ON THE PROFILE STATION 0+00 WHICH IS NOT SHOWN IN THE PLAN VIEW. USE P# POINTS TO COORDINATE THE PLAN AND PROFILE.

DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

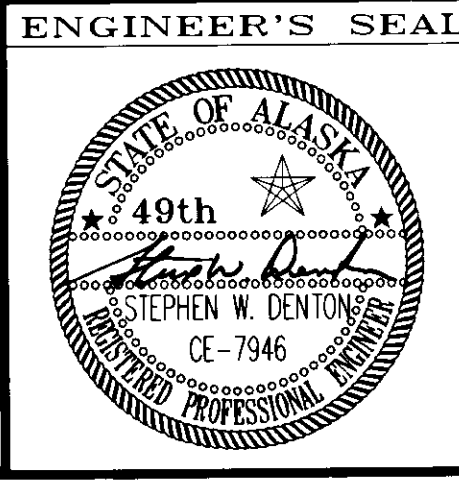
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

PRINCE OF WALES ISLAND THORNE BAY, ALASKA
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46) - 71947
PLAN AND PROFILE
 STA. "L" 19+00 TO STA. "L" 48+00

DESIGNED BY:	S. Denton	PROJECT NO.	71947
DRAWN BY:	S. Denton	DATE:	1995
CHECKED BY:	T.W. MOORE	SHEET	14 OF 22

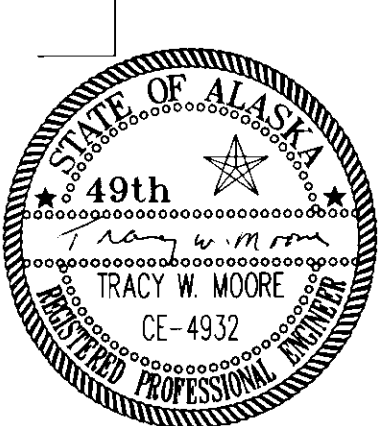
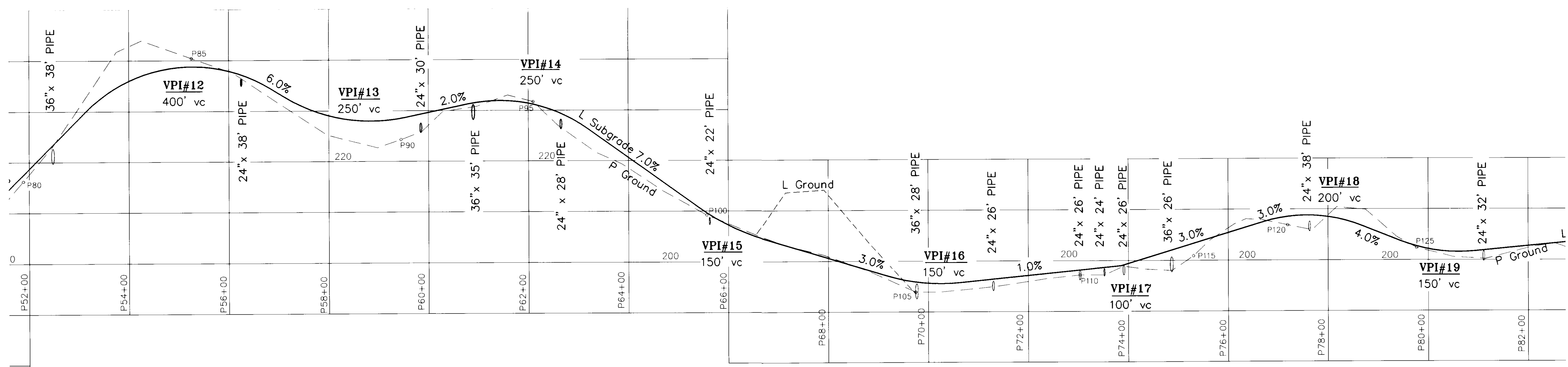
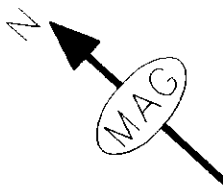
RECORD OF REVISIONS



LEGEND

2 LN (LT OR RT) = CONSTRUCT A 2 LANE ROADWAY LEFT OR RIGHT OF THE "L"-LINE.

TOL OR TOR = CONSTRUCT A TURNOUT LEFT OR RIGHT OF THE "L"-LINE.



NOTE: STATIONING SHOWN IN THE PLAN VIEW IS BASED ON THE "L" LINE. THE STATIONING SHOWN IN THE PROFILE VIEW IS BASED ON THE PROFILE STATION 0+00 WHICH IS NOT SHOWN IN THE PLAN VIEW. USE P# POINTS TO COORDINATE THE PLAN AND PROFILE.

DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

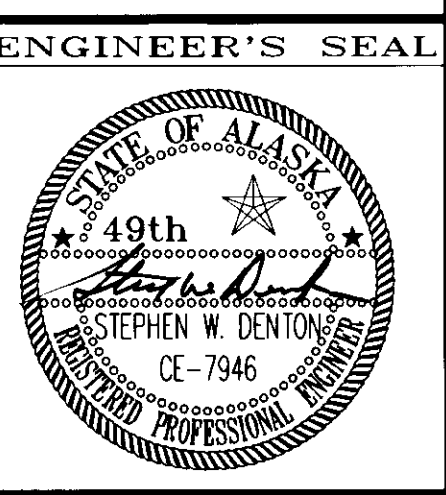
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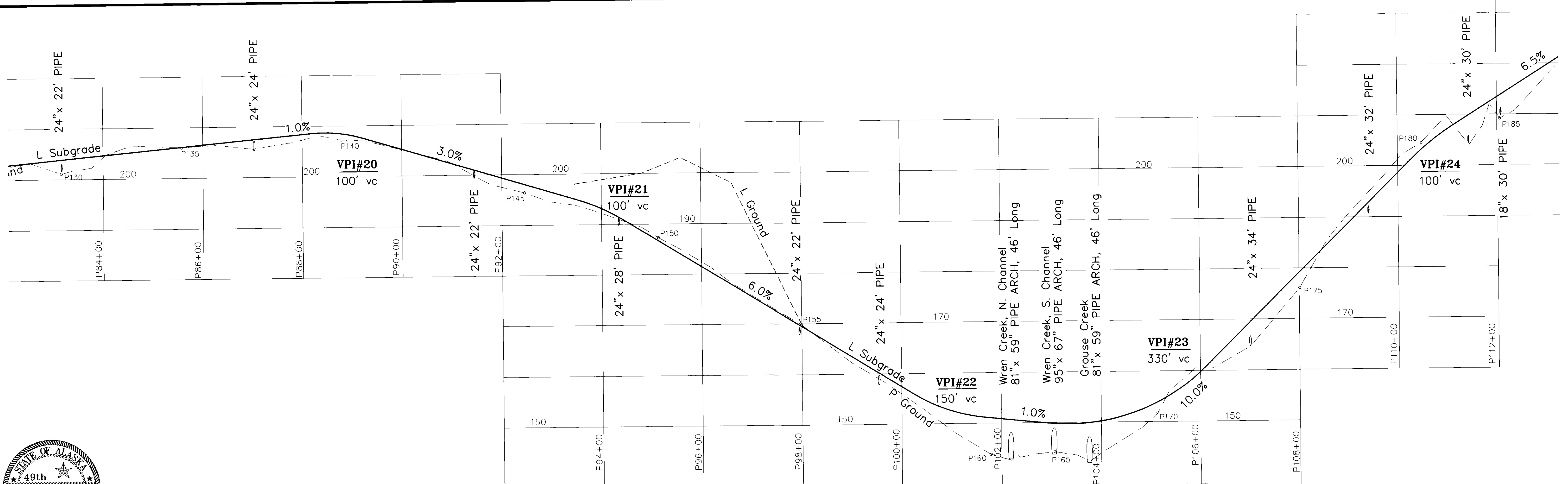
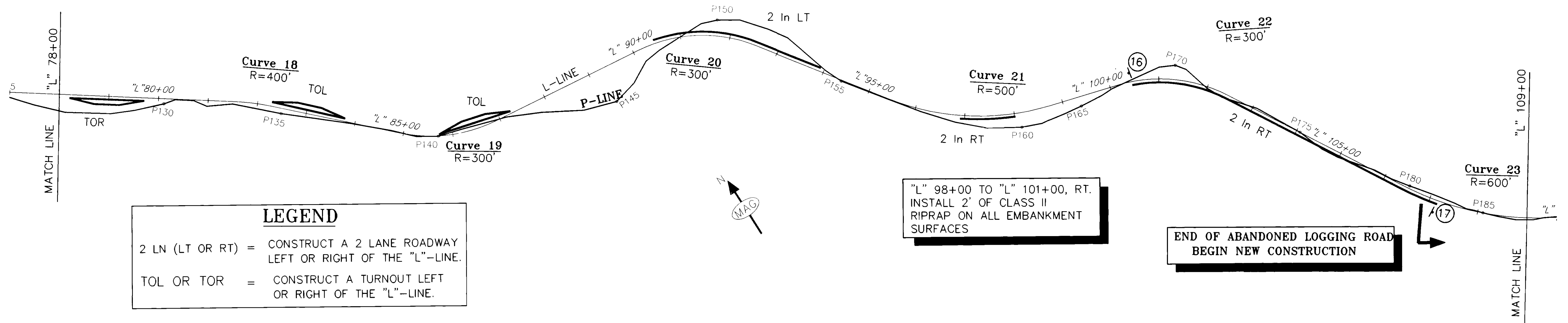
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

PRINCE OF WALES ISLAND THORNE BAY, ALASKA
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46) - 71947
PLAN AND PROFILE
 STA. "L" 48+00 TO STA. "L" 78+00

DESIGNED BY: S. Denton
 DRAWN BY: S. Denton
 CHECKED BY: T.W. MOORE

PROJECT NO. 71947
 DATE: 1995
 SHEET 15 OF 22





NOTE: STATIONING SHOWN IN THE PLAN VIEW IS BASED ON THE "L" LINE. THE STATIONING SHOWN IN THE PROFILE VIEW IS BASED ON THE PROFILE STATION 0+00 WHICH IS NOT SHOWN IN THE PLAN VIEW. USE P# POINTS TO COORDINATE THE PLAN AND PROFILE.

DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

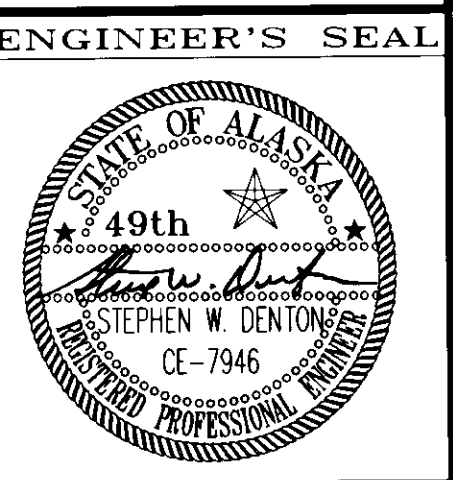
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BY:	DATE:
DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

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

PRINCE OF WALES ISLAND THORNE BAY, ALASKA
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46) - 71947
PLAN AND PROFILE
 STA. "L" 78+00 TO STA. "L" 109+00

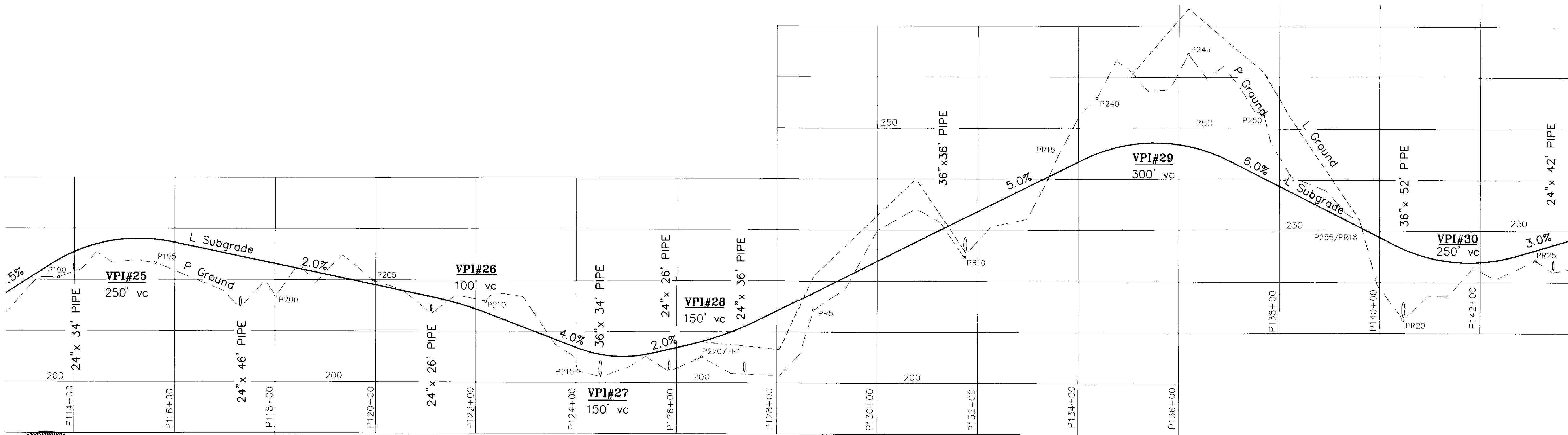
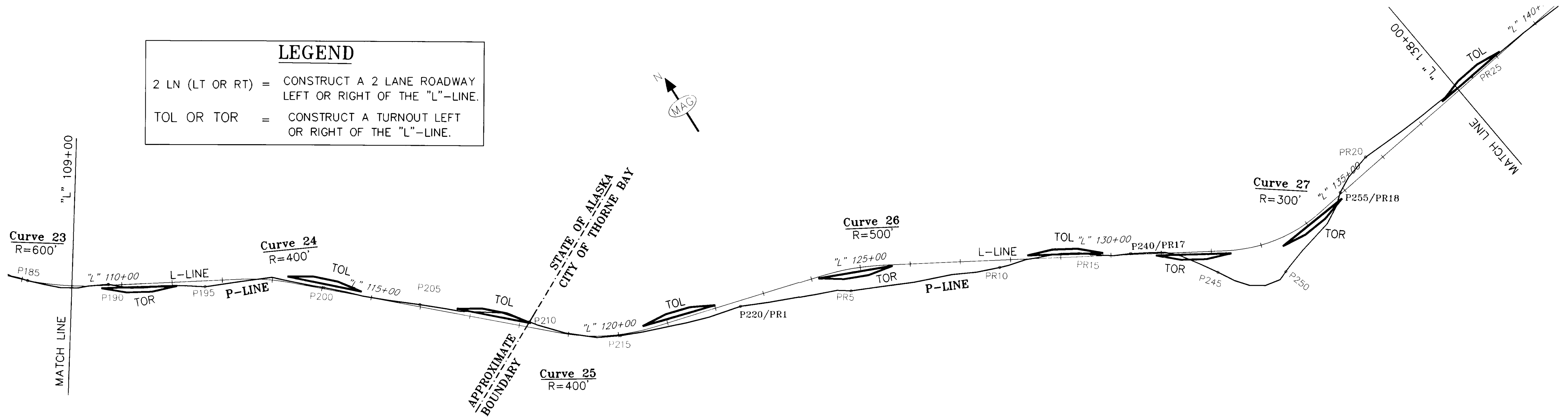
DESIGNED BY:	S. Denton	PROJECT NO.	71947
DRAWN BY:	S. Denton	DATE:	1995
CHECKED BY:	T.W. MOORE	SHEET	16 OF 22



LEGEND

2 LN (LT OR RT) = CONSTRUCT A 2 LANE ROADWAY LEFT OR RIGHT OF THE "L"-LINE.

TOL OR TOR = CONSTRUCT A TURNOUT LEFT OR RIGHT OF THE "L"-LINE.



NOTE: STATIONING SHOWN IN THE PLAN VIEW IS BASED ON THE "L" LINE. THE STATIONING SHOWN IN THE PROFILE VIEW IS BASED ON THE PROFILE STATION 0+00 WHICH IS NOT SHOWN IN THE PLAN VIEW. USE P# POINTS TO COORDINATE THE PLAN AND PROFILE.

DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS



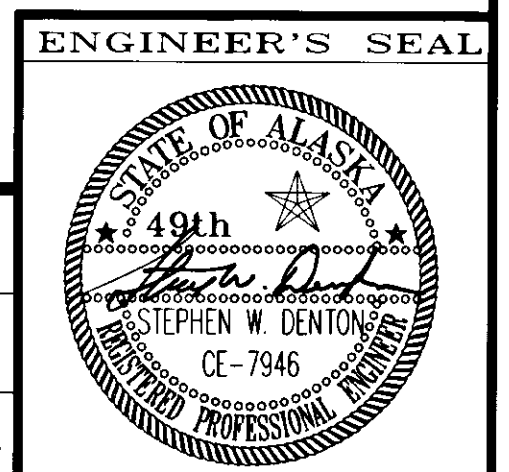
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

PRINCE OF WALES ISLAND THORNE BAY, ALASKA
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46) - 71947
PLAN AND PROFILE
 STA. "L" 109+00 TO STA. "L" 138+00

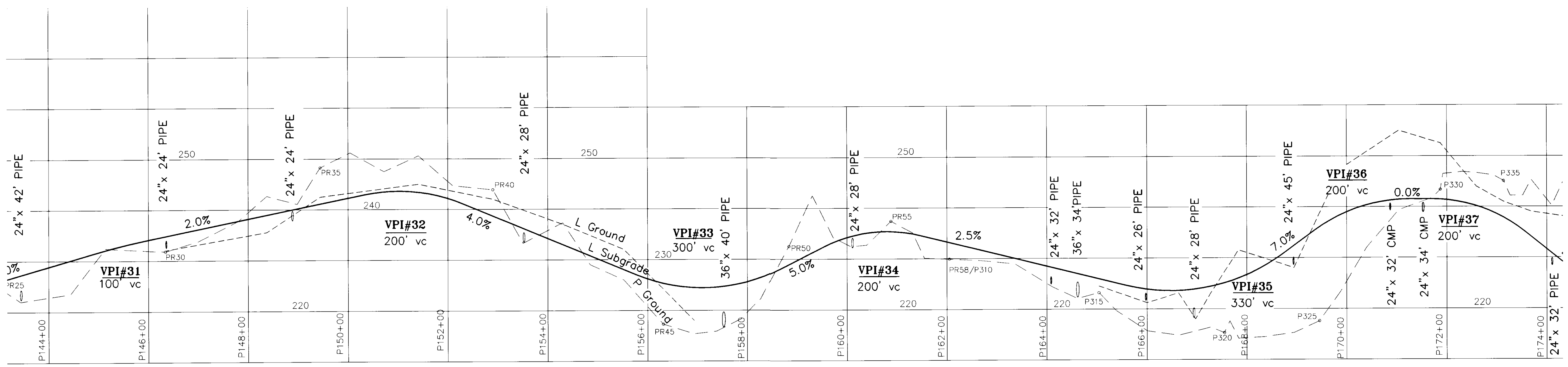
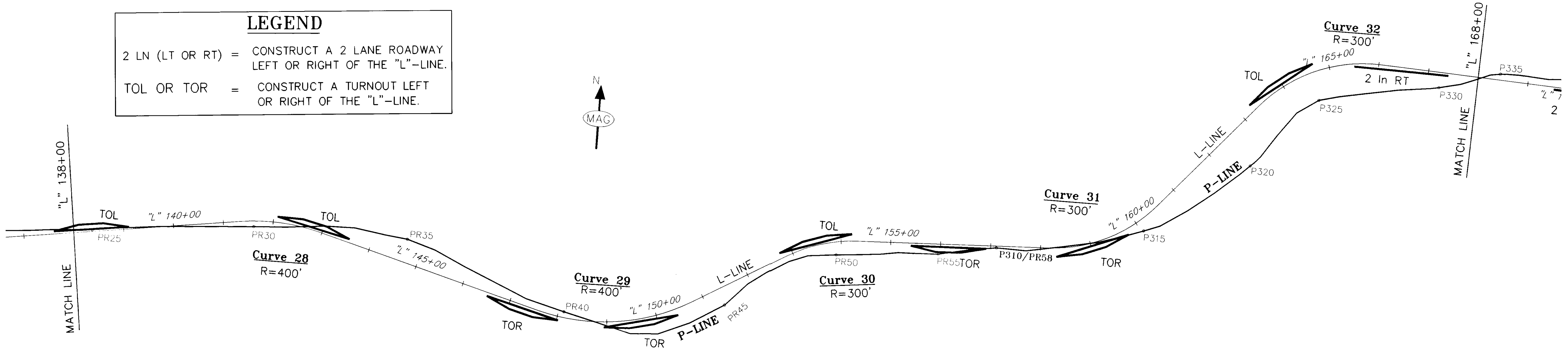
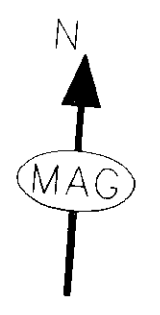
DESIGNED BY: S. Denton
 DRAWN BY: S. Denton
 CHECKED BY: T.W. MOORE

PROJECT NO. 71947
 DATE: 1995
 SHEET 17 OF 22



LEGEND

2 LN (LT OR RT) = CONSTRUCT A 2 LANE ROADWAY LEFT OR RIGHT OF THE "L"-LINE.
 TOL OR TOR = CONSTRUCT A TURNOUT LEFT OR RIGHT OF THE "L"-LINE.



NOTE: STATIONING SHOWN IN THE PLAN VIEW IS BASED ON THE "L" LINE. THE STATIONING SHOWN IN THE PROFILE VIEW IS BASED ON THE PROFILE STATION 0+00 WHICH IS NOT SHOWN IN THE PLAN VIEW. USE P# POINTS TO COORDINATE THE PLAN AND PROFILE.

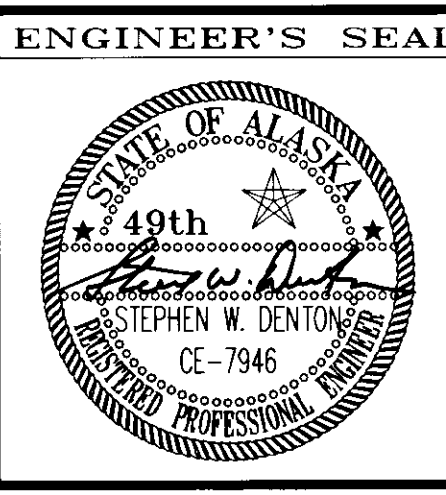
DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

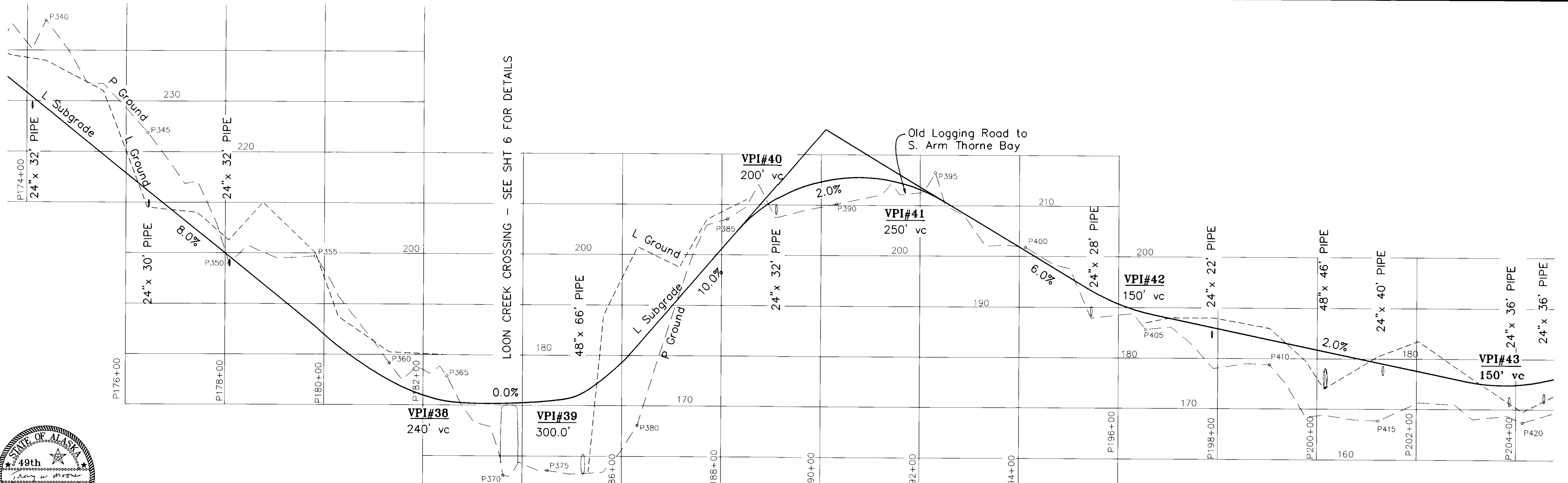
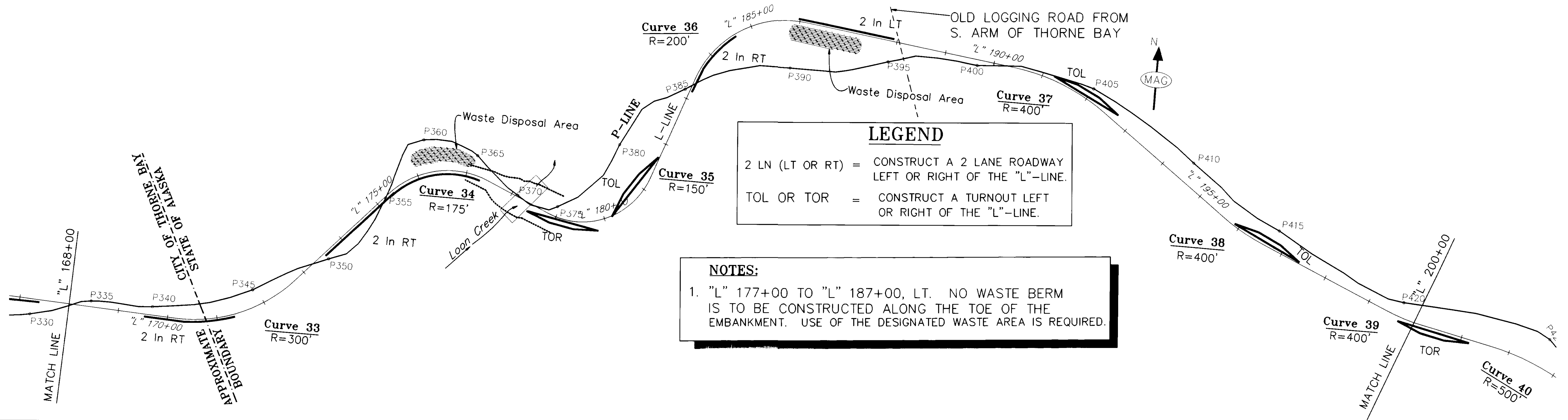
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BY:	DATE:
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RECORD OF REVISIONS	

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

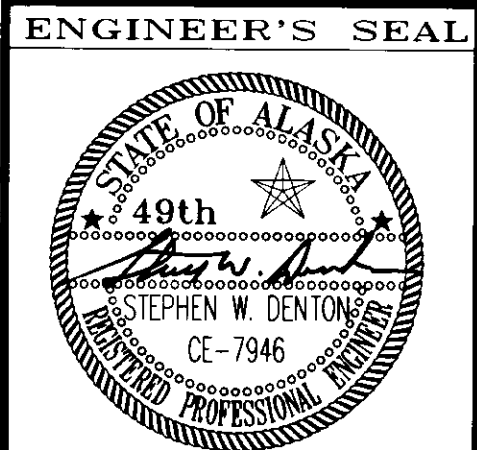
PRINCE OF WALES ISLAND THORNE BAY, ALASKA
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46) - 71947
PLAN AND PROFILE
 STA. "L" 138+00 TO STA. "L" 168+00

DESIGNED BY:	S. Denton	PROJECT NO.	71947
DRAWN BY:	S. Denton	DATE:	1995
CHECKED BY:	T.W. MOORE	SHEET	18 OF 22





NOTE: STATIONING SHOWN IN THE PLAN VIEW IS BASED ON THE "L" LINE. THE STATIONING SHOWN IN THE PROFILE VIEW IS BASED ON THE PROFILE STATION 0+00 WHICH IS NOT SHOWN IN THE PLAN VIEW. USE P# POINTS TO COORDINATE THE PLAN AND PROFILE.



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BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

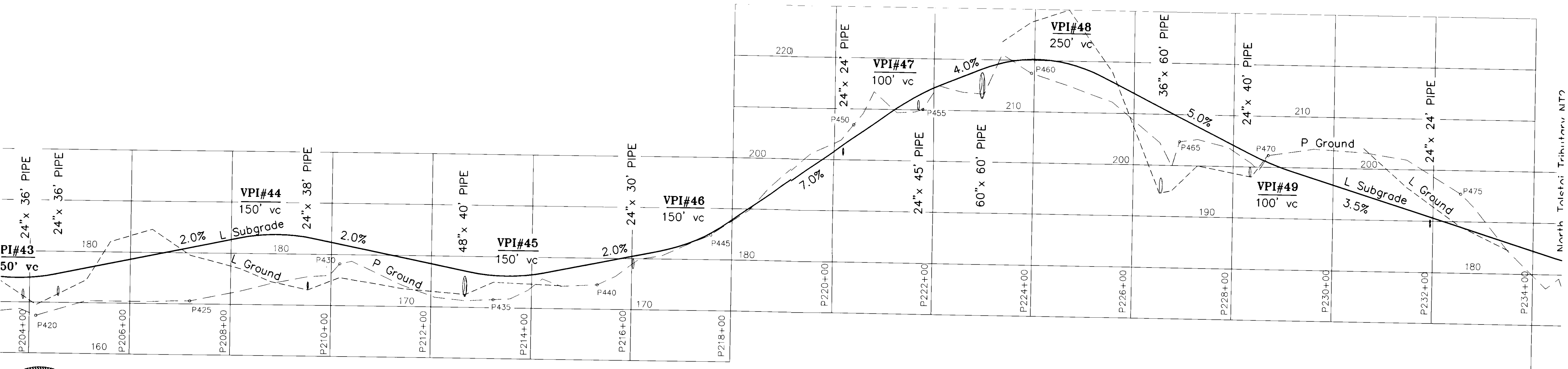
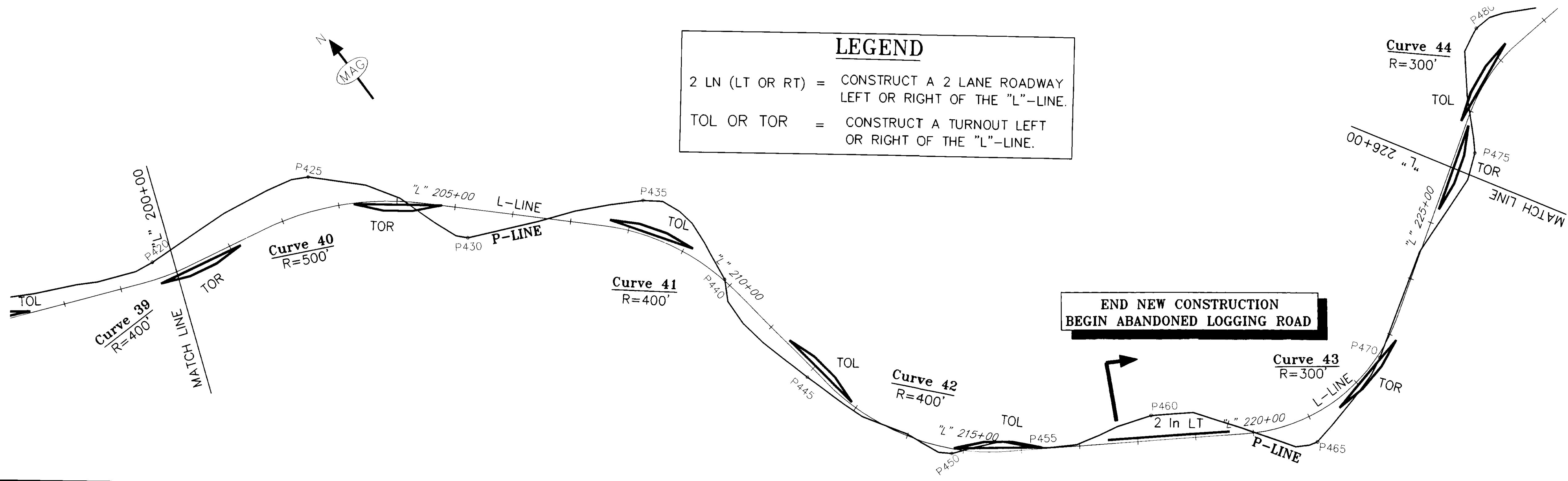
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

PRINCE OF WALES ISLAND THORNE BAY, ALASKA
SOUTH THORNE BAY ROAD TO KASAAN ROAD
GRADING AND DRAINAGE
PROJECT NO. STP-0003(46) - 71947
PLAN AND PROFILE
STA. "L" 168+00 TO STA. "L" 200+00

DESIGNED BY:	S. Denton	PROJECT NO.	71947
DRAWN BY:	S. Denton	DATE:	1995
CHECKED BY:	T.W. MOORE	SHEET	19 OF 22

DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

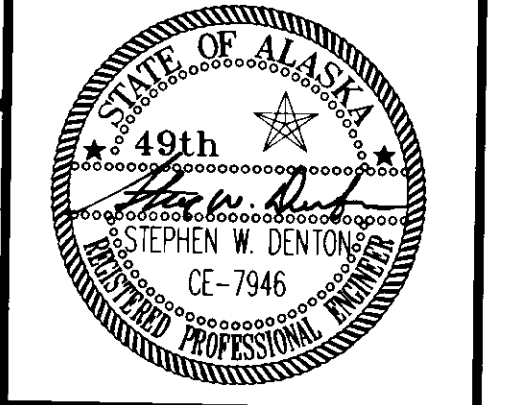
LEGEND
 2 LN (LT OR RT) = CONSTRUCT A 2 LANE ROADWAY LEFT OR RIGHT OF THE "L"-LINE.
 TOL OR TOR = CONSTRUCT A TURNOUT LEFT OR RIGHT OF THE "L"-LINE.



NOTE: STATIONING SHOWN IN THE PLAN VIEW IS BASED ON THE "L" LINE. THE STATIONING SHOWN IN THE PROFILE VIEW IS BASED ON THE PROFILE STATION 0+00 WHICH IS NOT SHOWN IN THE PLAN VIEW. USE P# POINTS TO COORDINATE THE PLAN AND PROFILE.



ENGINEER'S SEAL



RECORD OF REVISIONS		
DATE:	BY:	DESCRIPTION OF CHANGE:

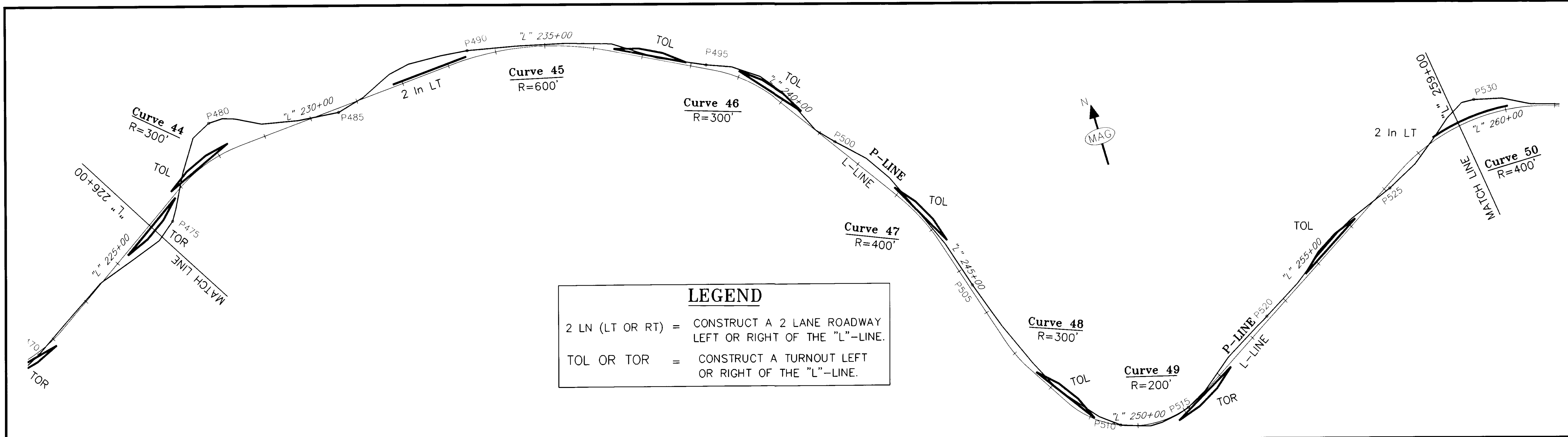
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

PRINCE OF WALES ISLAND
 THORNE BAY, ALASKA
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46) - 71947
PLAN AND PROFILE
 STA. "L" 200+00 TO STA. "L" 226+00

DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: S. Denton
 DRAWN BY: S. Denton
 CHECKED BY: T.W. MOORE

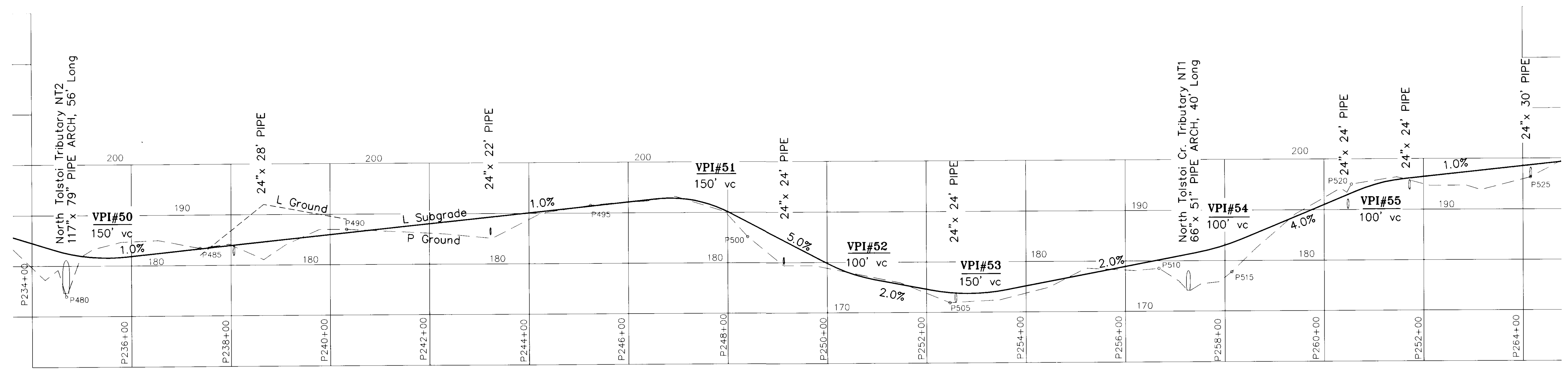
PROJECT NO. 71947
 DATE: 1995
 SHEET 20 OF 22



LEGEND

2 LN (LT OR RT) = CONSTRUCT A 2 LANE ROADWAY LEFT OR RIGHT OF THE "L"-LINE.

TOL OR TOR = CONSTRUCT A TURNOUT LEFT OR RIGHT OF THE "L"-LINE.



NOTE: STATIONING SHOWN IN THE PLAN VIEW IS BASED ON THE "L" LINE. THE STATIONING SHOWN IN THE PROFILE VIEW IS BASED ON THE PROFILE STATION 0+00 WHICH IS NOT SHOWN IN THE PLAN VIEW. USE P# POINTS TO COORDINATE THE PLAN AND PROFILE.

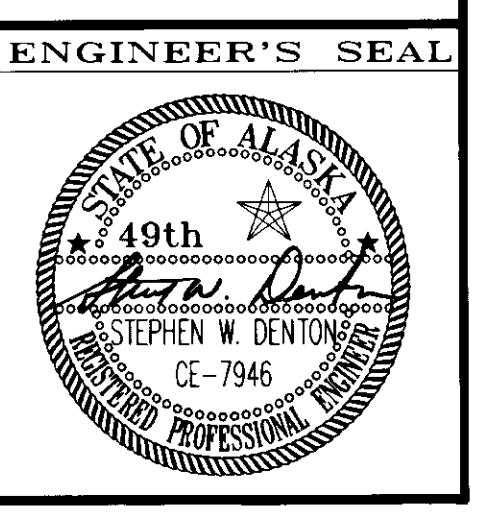
DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

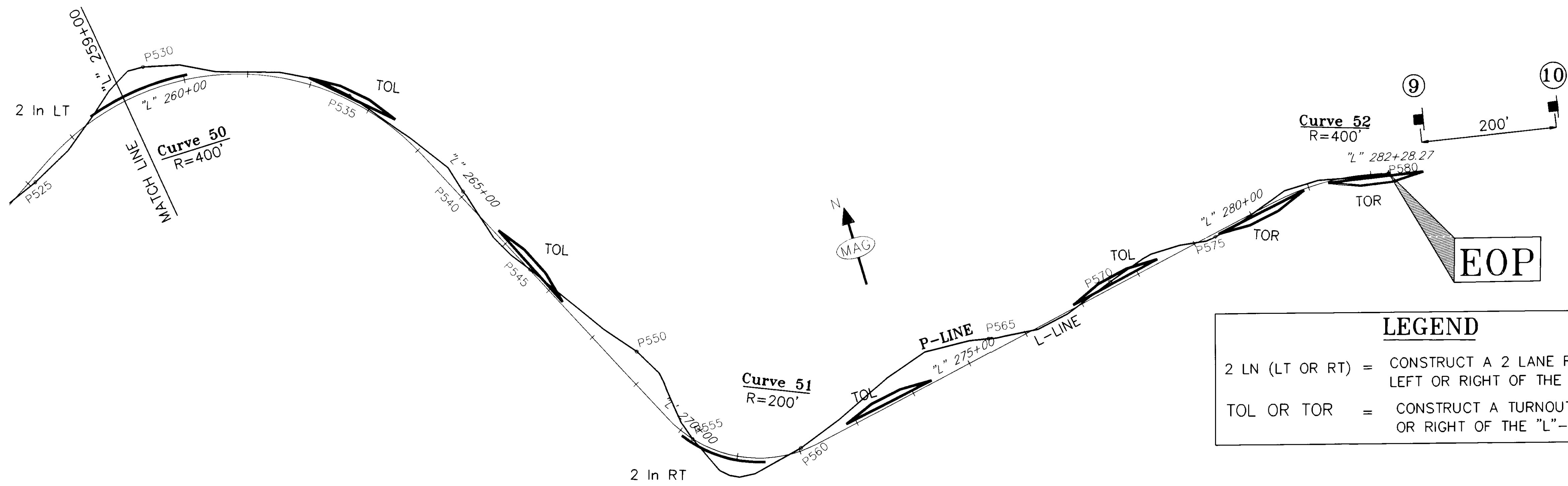
RECORD OF REVISIONS		
NO.	DATE	DESCRIPTION OF CHANGE

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

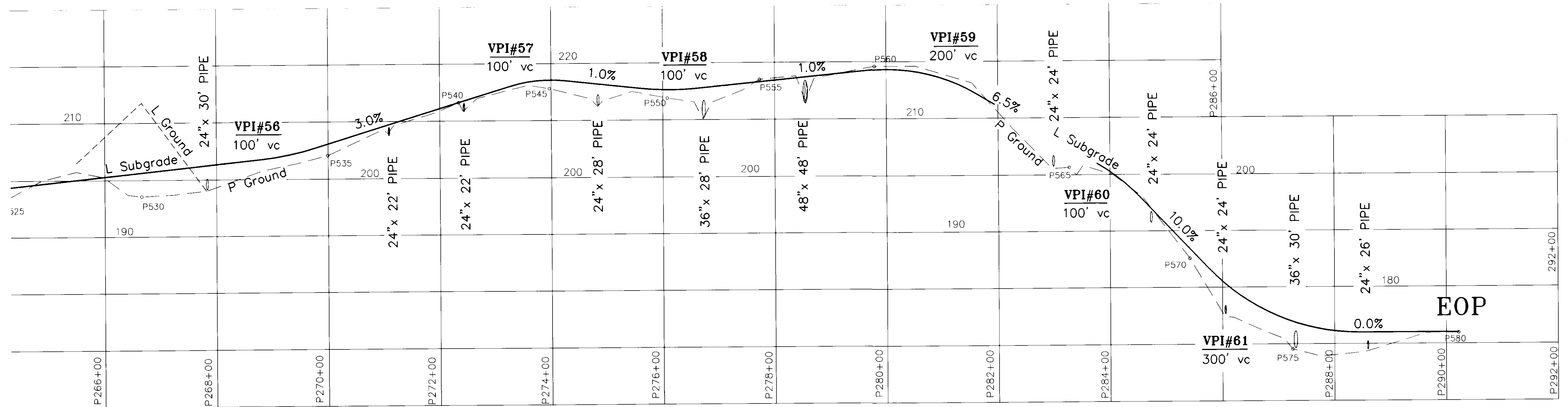
PRINCE OF WALES ISLAND THORNE BAY, ALASKA
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46) - 71947
PLAN AND PROFILE
 STA. "L" 226+00 TO STA. "L" 259+00

DESIGNED BY: <i>S. Denton</i>	PROJECT NO. 71947
DRAWN BY: <i>S. Denton</i>	DATE: 1995
CHECKED BY: <i>T.W. MOORE</i>	SHEET 21 OF 22





LEGEND	
2 LN (LT OR RT)	= CONSTRUCT A 2 LANE ROADWAY LEFT OR RIGHT OF THE "L"-LINE.
TOL OR TOR	= CONSTRUCT A TURNOUT LEFT OR RIGHT OF THE "L"-LINE.



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DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

RECORD OF REVISIONS		
PATH:	P:\POW\71947\EN\PSPLAN3 PLAN10.SCR	
BY:	DATE:	DESCRIPTION OF CHANGE:

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

PRINCE OF WALES ISLAND THORNE BAY, ALASKA
 SOUTH THORNE BAY ROAD TO KASAAN ROAD
 GRADING AND DRAINAGE
 PROJECT NO. STP-0003(46) - 71947
PLAN AND PROFILE
 STA. "L" 259+00 TO STA. "L" 282+28.27

DESIGNED BY:	S. Denton	PROJECT NO.	71947
DRAWN BY:	S. Denton	DATE:	1995
CHECKED BY:	T.W. MOORE	SHEET	22 OF 22

