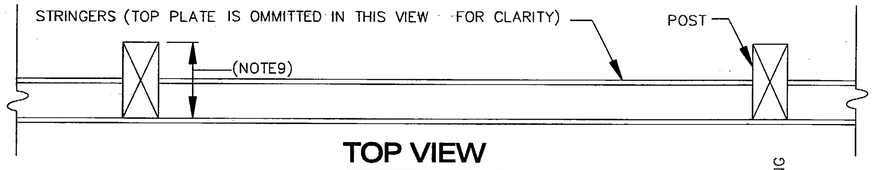
NOISE BARRIER FENCE SCHEDULE (B1 DESIGN LOADING NOTE 11)

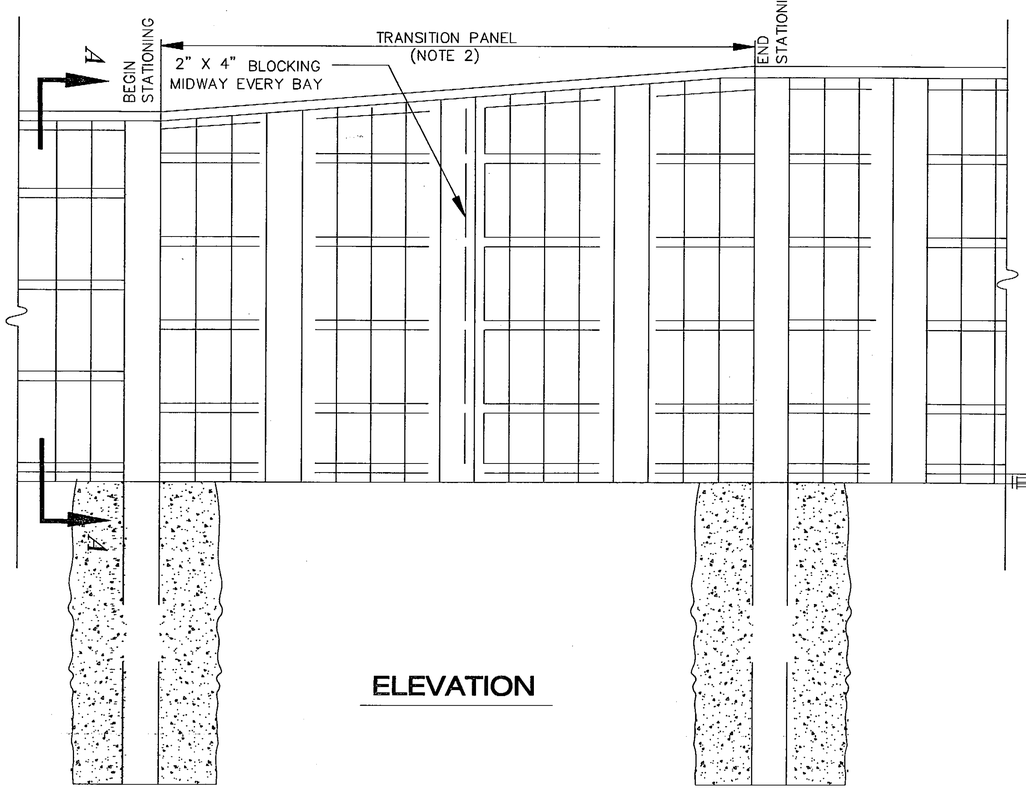
POST (NOTE 8)					STRINGER (NOTE 8)	
FENCE HEIGHT (FT)	SIZE (IN X IN)	SPACING (FT)	EMBEDMENT DEPTH d (FT)	HOLE DIAMETER (IN)	NO. REQ'D	SIZE (IN X IN)
6	4 X 6	8	8	14	4	2 X 4
8	4 X 8	8	8	14	4	2 X 4
10	4 X 12	12	8	24	5	2 X 6
12	4 X 14	12	10	20	6	2 X 6
14	6 X 14	12	10	22	7	2 X 6

NOISE BARRIER FENCE SCHEDULE (B2 DESIGN LOADING NOTE 11)

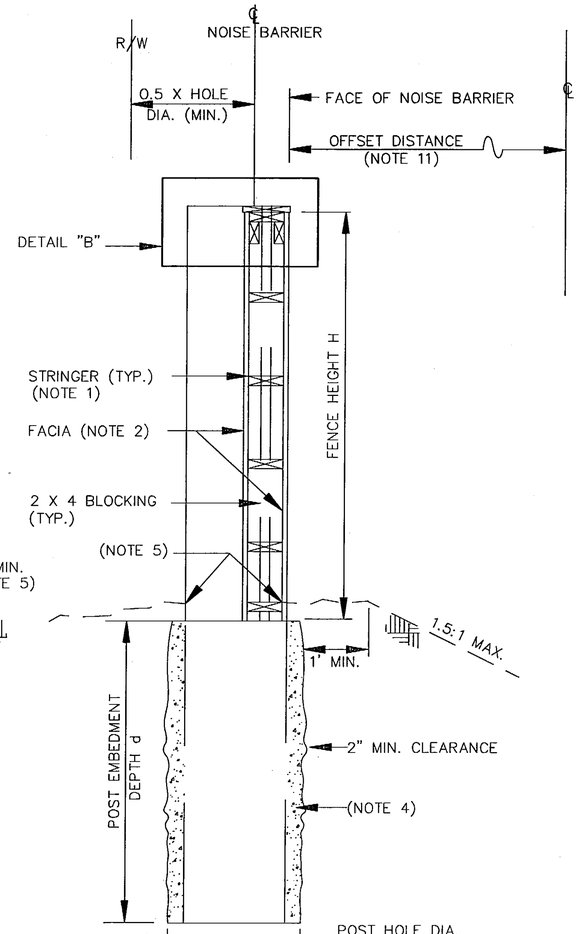
POST (NOTE 8)					STRINGER (NOTE 8)	
FENCE HEIGHT (FT)	SIZE (IN X IN)	SPACING (FT)	EMBEDMENT DEPTH d (FT)	HOLE DIAMETER (IN)	NO. REQ'D	SIZE (IN X IN)
6	4 X 8	8	8	16	4	2 X 4
8	4 X 12	12	10	20	5	2 X 6
10	6 X 12	12	10	22	6	2 X 6
12	6 X 14	12	10	26	7	2 X 6
14	6 X 16	12	10	30	8	2 X 6



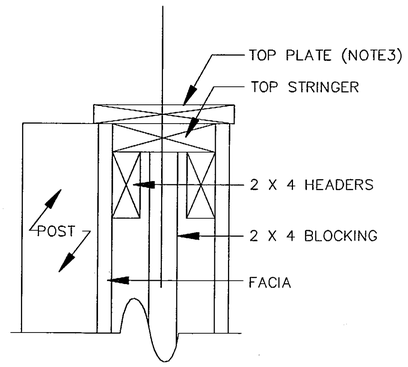
TOP VIEW



ELEVATION



SECTION A-A END VIEW



DETAIL"B"
(NOTE 14)

NOISE BARRIER FENCE NOTES

1. ATTACH STRINGERS TO POST USING 18 GAGE FRAMING ANCHORS AT EACH END AND 10d NAILS. STRINGERS SHALL BE EVENLY SPACED AND CENTERED ON POST.
2. VERTICAL FACIA BOARDS SHALL BE 1–INCH X 6–INCH (NOMINAL) CEDAR WITH SHIPLAPPED EDGES. FASTEN TO EACH STRINGER USING 2–10d NAILS.
3. TOP PLATES SHALL BE 1–INCH (NOMINAL) CEDAR. WIDTH SHALL BE 2–INCHES GREATER THAN STRINGER. FASTEN USING 2–10d NAILS AT 24–INCH O.C.
4. CLASS W CONCRETE USED FOR FILLING POST HOLES SHALL BE INCLUDED IN THE PRICE PAID FOR THE FENCE.
5. GRADE THE GROUND AT THE BASE OF THE WALL PANELS SUCH THAT ALL FACIA BOARDS ARE BURIED A MINIMUM OF 1–INCH.
6. LOCATE UTILITIES PRIOR TO POST EXCAVATION.
7. STAKE RIGHT OF WAY AND FENCE LINES FOR INSPECTION BY THE ENGINEER PRIOR TO BEGINNING FENCE CONSTRUCTION.
8. GRADING OF LUMBER AS STATED IN TIMBER CONSTRUCTION MANUAL, 2ND EDITION AMERICAN INSTITUTE OF TIMBER CONSTRUCTION FOR HEM FIR #1 OR BETTER. POSTS SHALL BE GRADED DENSE NO. 1. STRINGERS SHALL BE GRADED NO. 2.
9. INSTALL POSTS WITH LARGE DIMENSION PERPENDICULAR TO FACE OF WALL.
10. INSTALL POSTS AT ALL ANGLE POINTS.
11. REFER TO NOISE BARRIER FENCE SUMMARY TABLE FOR STATION, OFFSET HEIGHT, AND APPLICABLE DESIGN LOADING (B1 OR B2) DATA.
12. TRANSITION PANEL STRINGERS AND POST REQUIREMENTS SHALL BE THOSE OF THE HIGHER FENCE.
13. ALL POSTS AND STRINGERS SHALL BE TREATED IN ACCORDANCE WITH SECTION 714, PRESERVATIVES AND PRESERVATIVE TREATMENT PROCESSES FOR WOOD MATERIALS.
14. FOR 12–FOOT POST SPACING, INSTALL 2–INCH X 4–INCH HEADER BOARDS TO TOP AS SHOWN IN DETAIL "B. USE 16d 12–INCH O.C. CONNECT ENDS OF 2 X 4 HEADER BOARDS TO POST USING 18 GAGE FRAMING ANCHORS AND 10d NAILS.
15. ALL NAILS AND ANCHOR PLATES SHALL BE GALVANIZED

PATH: Q:\Ktn\71811A\Planset\0_Noise.DWG
Mon, 06/May/02 09:44AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Noise Barrier Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th — Tracy W. Moore CE-4932 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION PROJECT NO. 68490

Noise Barrier Details

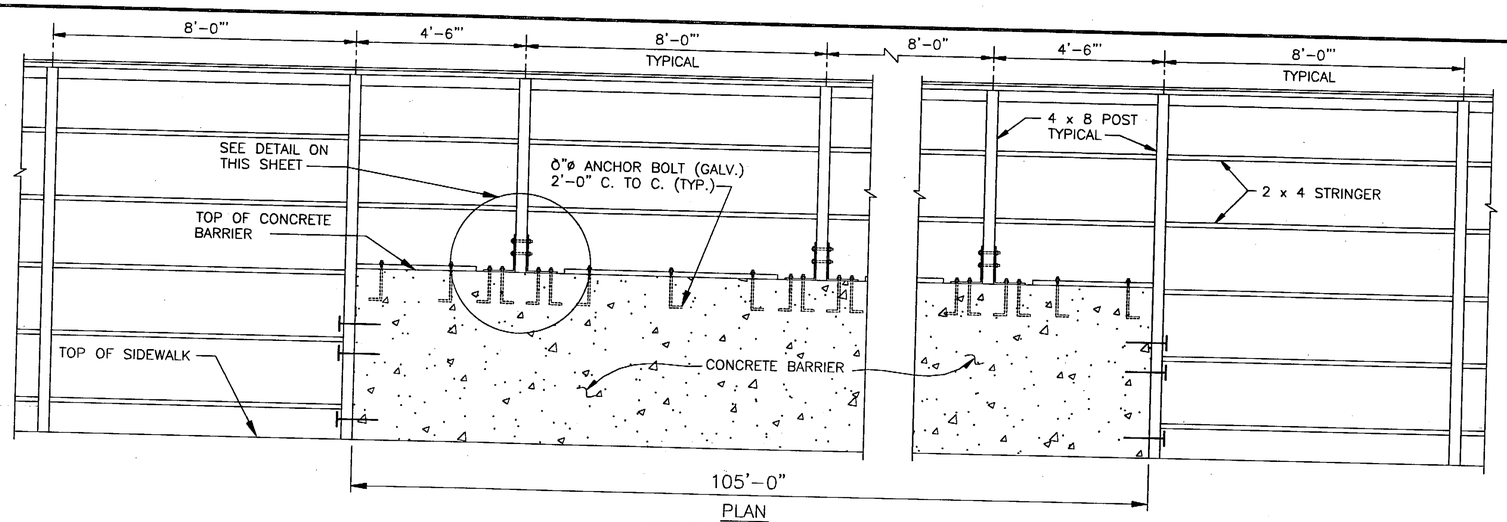
PROJECT DESIGNATION NUMBER

STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
01	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

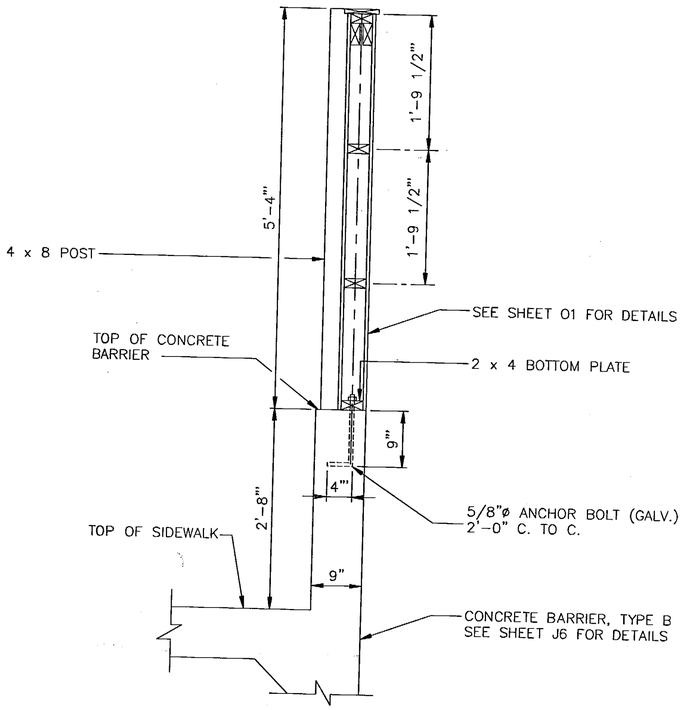
Proj. Eng _____ Date 10.31.06



PLAN

POST LAYOUT

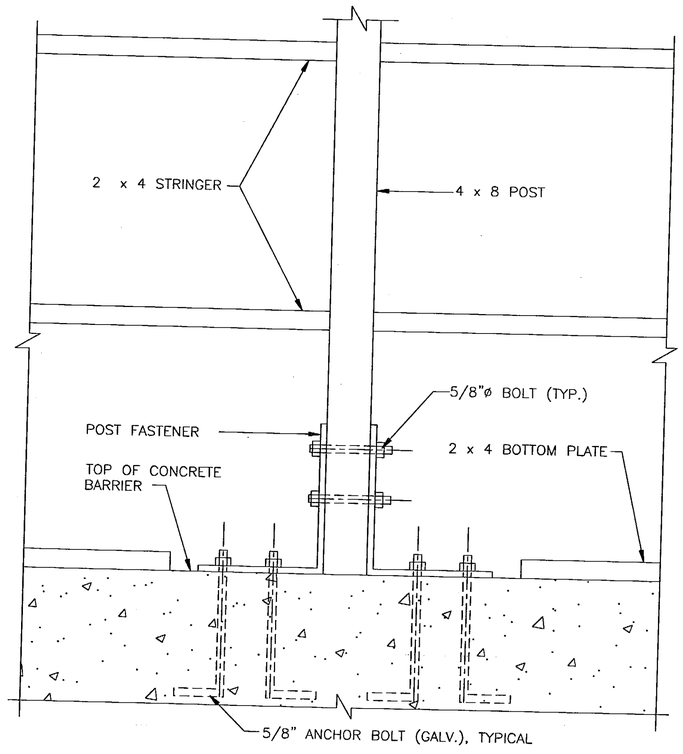
STA. "O" 24+70, RT., TO STA. "O" 25+75, RT.



SIDE VIEW

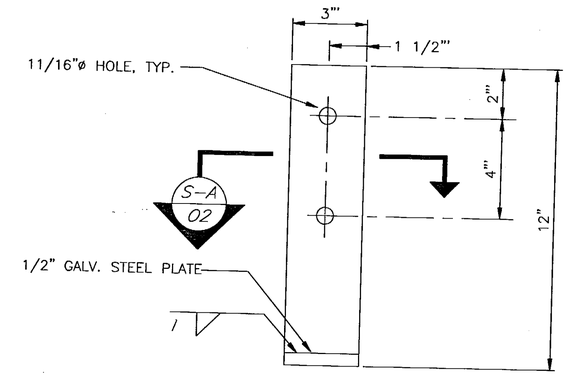
NOISE BARRIER ABOVE CONCRETE BARRIER

STA. "O" 24+70, RT., TO STA. "O" 25+75, RT.

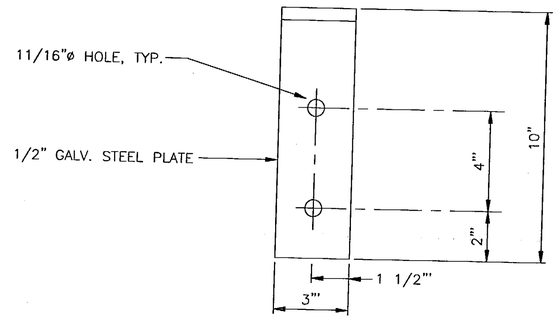


FRONT VIEW

POST CONNECTION



SIDE VIEW



SECTION VIEW (A)

POST FASTENER

PATH: Q:\Ktn\71811A\Planset\O_Noise.DWG
Mon, 06/May/02 09:44AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Noise Barrier Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Noise Barrier Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
02	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10/31/06

State of Alaska

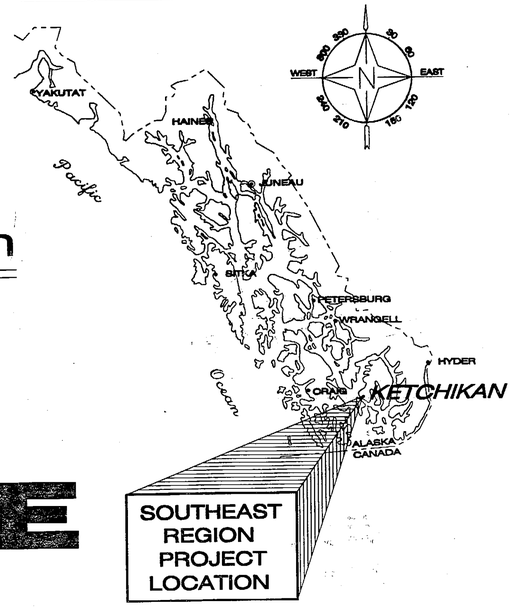
Department of Transportation and Public Facilities

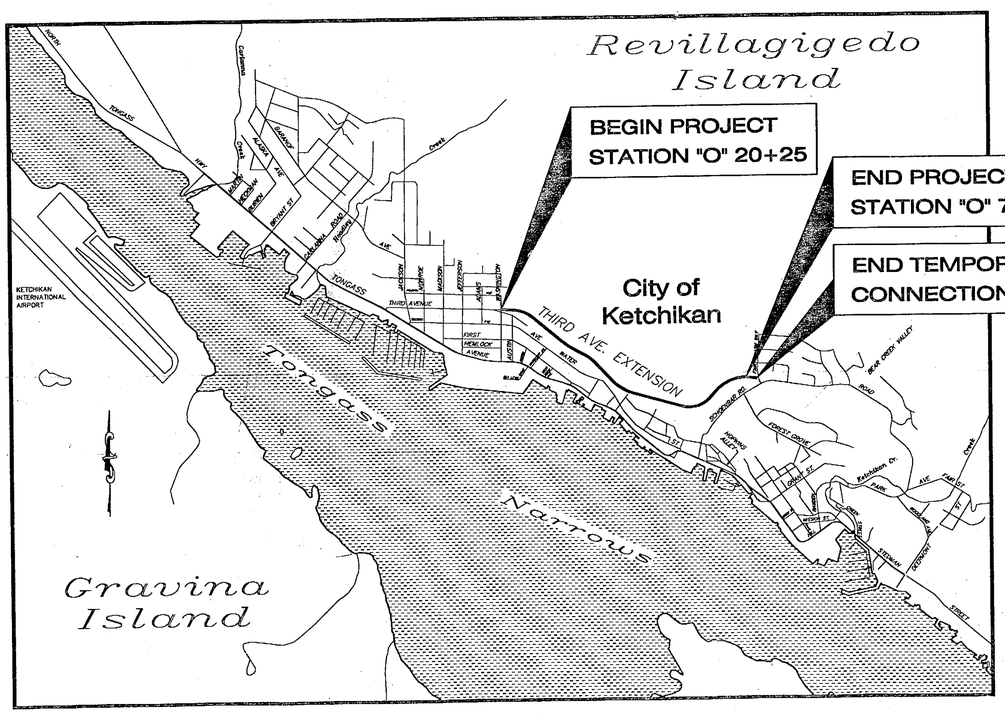
Statewide Design and Engineering Services Division

KETCHIKAN, ALASKA

KTN-THIRD AVENUE EXTENSION

STP-MG-0904(2)~68490





VICINITY MAP

AS BUILT PLAN
Contractor: SECON, INC.
Project Engineer: Allen Shepard
Start: JULY 15, 2002
End: JUNE 21, 2006

DESIGN DESIGNATIONS

	2002	2023
A.D.T. (EST)	2300	4600
D.H.V. 10%	230	460
DESIGN SPEED	35 MPH	35 MPH
%T.	5	5
DESIGN EAL	<500K	<500K

PROJECT SUMMARY

CDS ROUTE NO.	NA
CDS MILEPOINT TO	NA
LENGTH OF PROJECT	5305 FT. (1.01 MI)
LENGTH OF GRADING	5305 FT. (1.01 MI)
LENGTH OF PAVING	5305 FT. (1.01 MI)
WIDTH OF PAVING	VARIES (31' TO 32.5')

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	D-23.00	G-45.01	L-26.00	S-30.02
B-04.00	D-24.00	I-20.13	L-30.02	T-20.01
B-05.00	D-26.02	I-81.00	M-01.00	T-21.02
D-01.02	D-35.00	L-03.03	M-13.01	T-22.03
D-04.20	D-37.01	L-10.03	M-16.01	T-23.00
D-07.00	E-00.00	L-23.01	S-00.00	
D-20.03	E-13.00	L-24.00	S-05.01	
D-22.00	F-01.01	L-25.00	S-20.00	

INDEX

PATH: Q:\Ktn\71811A\Planset\A_Tsht.dwg
Mon, 06/May/02 09:17AM Michael Limbaugh

PLOT: PSPACE OR MSPACE: 1000mm=1m(F) TAB: TSHT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

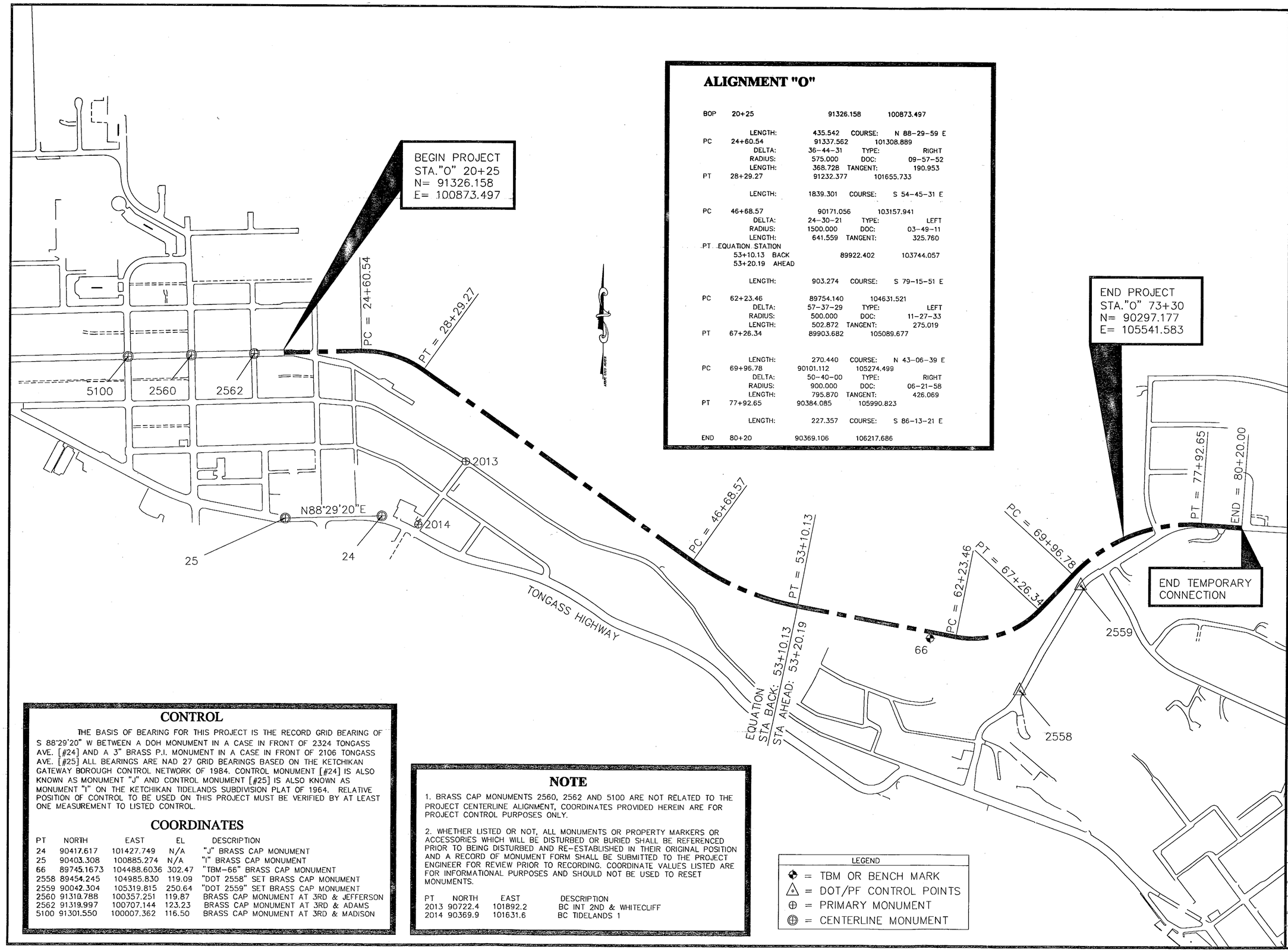
RECOMMENDED FOR APPROVAL:
Tracy Moore 5/3/02
for PATRICK J. KEMP, P.E. DATE
REGIONAL PRECONSTRUCTION ENGINEER

APPROVED:
5/3/02
ROBERT DOLL DATE
DIRECTOR, S.E. REGION

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

CONSTRUCTION PROJECT MANAGER DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-MG-0904(2)	2002	A1	146



ALIGNMENT "O"

BOP	20+25		91326.158		100873.497
	LENGTH:	435.542	COURSE:	N 88-29-59 E	
PC	24+60.54		91337.562		101308.889
	DELTA:	36-44-31	TYPE:	RIGHT	
	RADIUS:	575.000	DOC:	09-57-52	
	LENGTH:	368.728	TANGENT:	190.953	
PT	28+29.27		91232.377		101655.733
	LENGTH:	1839.301	COURSE:	S 54-45-31 E	
PC	46+68.57		90171.056		103157.941
	DELTA:	24-30-21	TYPE:	LEFT	
	RADIUS:	1500.000	DOC:	03-49-11	
	LENGTH:	641.559	TANGENT:	325.760	
PT	EQUATION STATION				
	53+10.13 BACK		89922.402		103744.057
	53+20.19 AHEAD				
	LENGTH:	903.274	COURSE:	S 79-15-51 E	
PC	62+23.46		89754.140		104631.521
	DELTA:	57-37-29	TYPE:	LEFT	
	RADIUS:	500.000	DOC:	11-27-33	
	LENGTH:	502.872	TANGENT:	275.019	
PT	67+26.34		89903.682		105089.677
	LENGTH:	270.440	COURSE:	N 43-06-39 E	
PC	69+96.78		90101.112		105274.499
	DELTA:	50-40-00	TYPE:	RIGHT	
	RADIUS:	900.000	DOC:	06-21-58	
	LENGTH:	795.870	TANGENT:	426.069	
PT	77+92.65		90384.085		105990.823
	LENGTH:	227.357	COURSE:	S 86-13-21 E	
END	80+20		90369.106		106217.686

CONTROL

THE BASIS OF BEARING FOR THIS PROJECT IS THE RECORD GRID BEARING OF S 88°29'20" W BETWEEN A DOH MONUMENT IN A CASE IN FRONT OF 2324 TONGASS AVE. [#24] AND A 3" BRASS P.I. MONUMENT IN A CASE IN FRONT OF 2106 TONGASS AVE. [#25] ALL BEARINGS ARE NAD 27 GRID BEARINGS BASED ON THE KETCHIKAN GATEWAY BOROUGH CONTROL NETWORK OF 1984. CONTROL MONUMENT [#24] IS ALSO KNOWN AS MONUMENT "J" AND CONTROL MONUMENT [#25] IS ALSO KNOWN AS MONUMENT "I" ON THE KETCHIKAN TIDELANDS SUBDIVISION PLAT OF 1964. RELATIVE POSITION OF CONTROL TO BE USED ON THIS PROJECT MUST BE VERIFIED BY AT LEAST ONE MEASUREMENT TO LISTED CONTROL.

COORDINATES

PT	NORTH	EAST	EL	DESCRIPTION
24	90417.617	101427.749	N/A	"J" BRASS CAP MONUMENT
25	90403.308	100885.274	N/A	"I" BRASS CAP MONUMENT
66	89745.1673	104488.6036	302.47	"TBM-66" BRASS CAP MONUMENT
2558	89454.245	104985.830	119.09	"DOT 2558" SET BRASS CAP MONUMENT
2559	90042.304	105319.815	250.64	"DOT 2559" SET BRASS CAP MONUMENT
2560	91310.788	100357.251	119.87	BRASS CAP MONUMENT AT 3RD & JEFFERSON
2562	91319.997	100707.144	123.23	BRASS CAP MONUMENT AT 3RD & ADAMS
5100	91301.550	100007.362	116.50	BRASS CAP MONUMENT AT 3RD & MADISON

NOTE

1. BRASS CAP MONUMENTS 2560, 2562 AND 5100 ARE NOT RELATED TO THE PROJECT CENTERLINE ALIGNMENT, COORDINATES PROVIDED HEREIN ARE FOR PROJECT CONTROL PURPOSES ONLY.

2. WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS OR ACCESSORIES WHICH WILL BE DISTURBED OR BURIED SHALL BE REFERENCED PRIOR TO BEING DISTURBED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION AND A RECORD OF MONUMENT FORM SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO RECORDING. COORDINATE VALUES LISTED ARE FOR INFORMATIONAL PURPOSES AND SHOULD NOT BE USED TO RESET MONUMENTS.

PT	NORTH	EAST	DESCRIPTION
2013	90722.4	101892.2	BC INT 2ND & WHITECLIFF
2014	90369.9	101631.6	BC TIDELANDS 1

LEGEND

- ◈ = TBM OR BENCH MARK
- △ = DOT/PF CONTROL POINTS
- ⊕ = PRIMARY MONUMENT
- ⊕ = CENTERLINE MONUMENT

PATH:
Q:\Ktn\71811A\Planset\A2_Control.dwg
Mon, 06/May/02 10:01AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PLANVIEW

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Survey Control Layout Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Garrith Mclean
S-9019
REGISTERED PROFESSIONAL SURVEYOR

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Survey Control Layout Plan

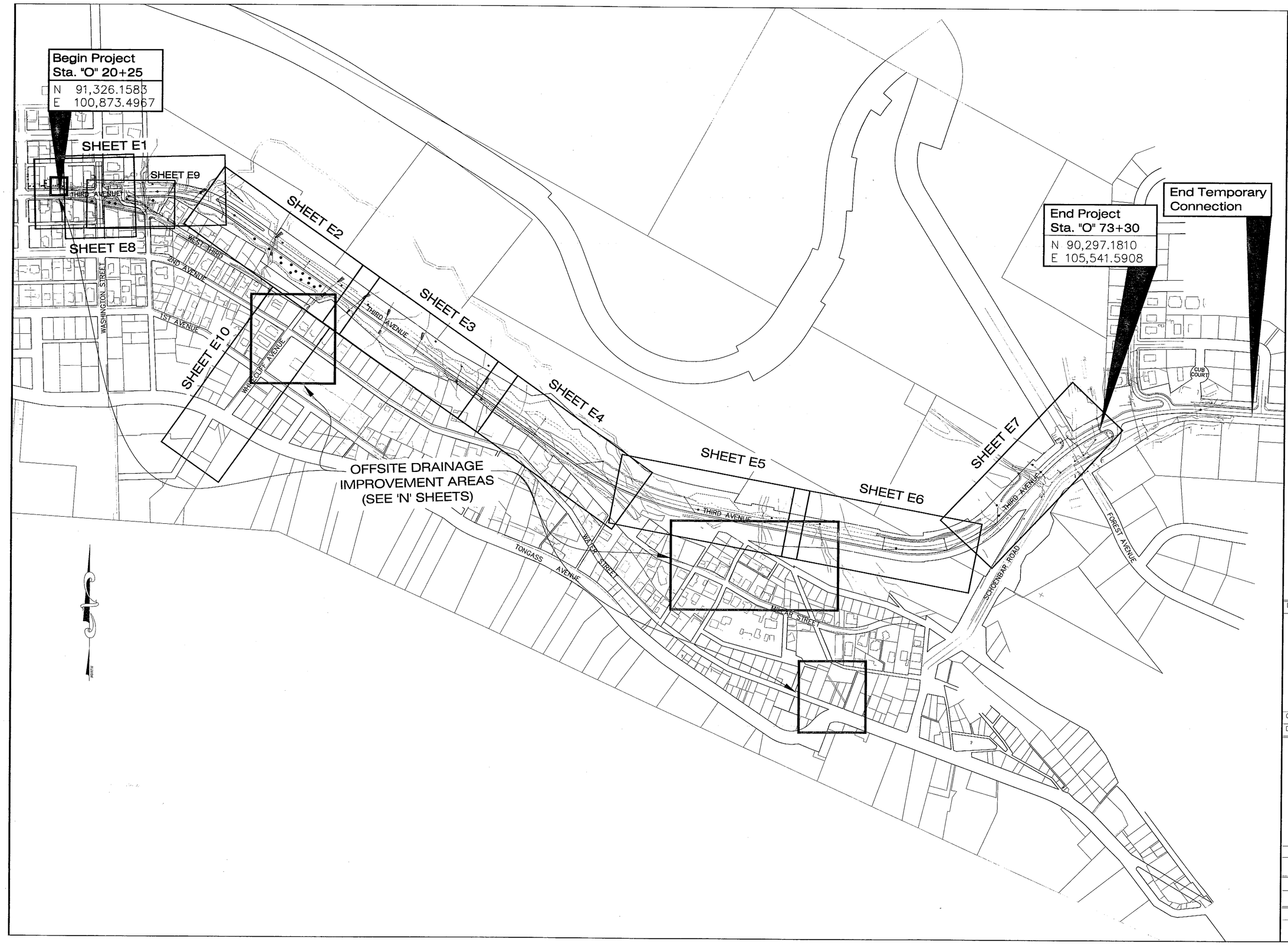
PROJECT DESIGNATION NUMBER

STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
A2	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 8.3.06



PATH:
Q:\Ktn\71811A\Planset\A3_General Layout.dwg
Tue, 07/May/02 03:22PM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

General Layout Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K./R.S./M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

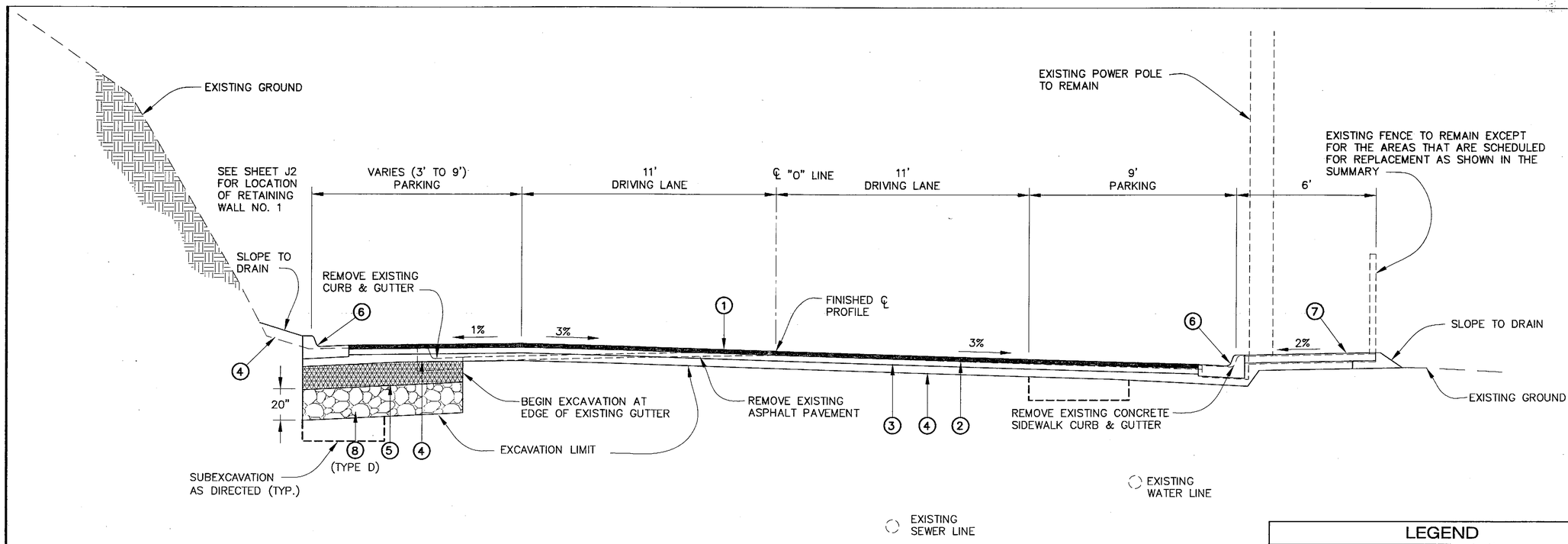
THIRD AVENUE EXTENSION
PROJECT NO. 68490

General Layout Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
A3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10-3-06

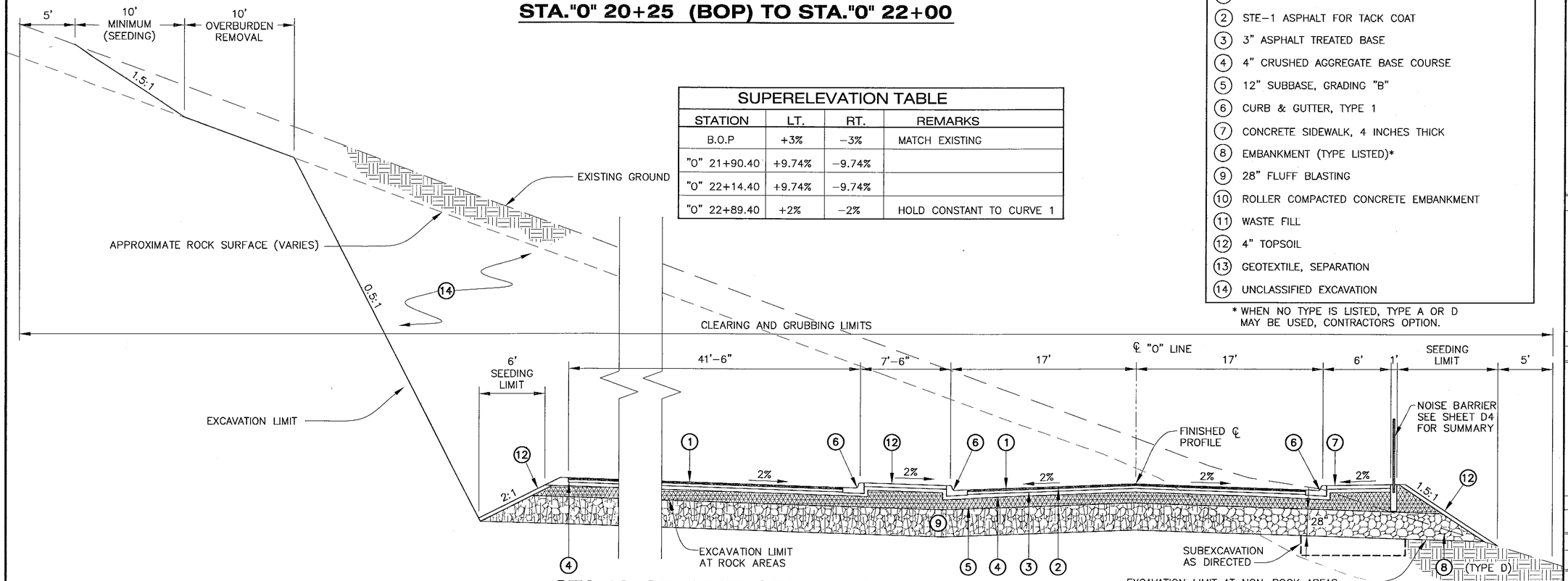


STA."0" 20+25 (BOP) TO STA."0" 22+00

SUPERELEVATION TABLE			
STATION	LT.	RT.	REMARKS
B.O.P	+3%	−3%	MATCH EXISTING
"0" 21+90.40	+9.74%	−9.74%	
"0" 22+14.40	+9.74%	−9.74%	
"0" 22+89.40	+2%	−2%	HOLD CONSTANT TO CURVE 1

LEGEND	
(1)	2 " ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A
(2)	STE−1 ASPHALT FOR TACK COAT
(3)	3" ASPHALT TREATED BASE
(4)	4" CRUSHED AGGREGATE BASE COURSE
(5)	12" SUBBASE, GRADING "B"
(6)	CURB & GUTTER, TYPE 1
(7)	CONCRETE SIDEWALK, 4 INCHES THICK
(8)	EMBANKMENT (TYPE LISTED)*
(9)	28" FLUFF BLASTING
(10)	ROLLER COMPACTED CONCRETE EMBANKMENT
(11)	WASTE FILL
(12)	4" TOPSOIL
(13)	GEOTEXTILE, SEPARATION
(14)	UNCLASSIFIED EXCAVATION

* WHEN NO TYPE IS LISTED, TYPE A OR D MAY BE USED, CONTRACTORS OPTION.



STA. "0" 27+00 TO STA. "0" 30+00

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\Ktn\71811A\Planset\B_Typs.dwg
Mon, 06/May/02 10:30AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: B1

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: M.L. / K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

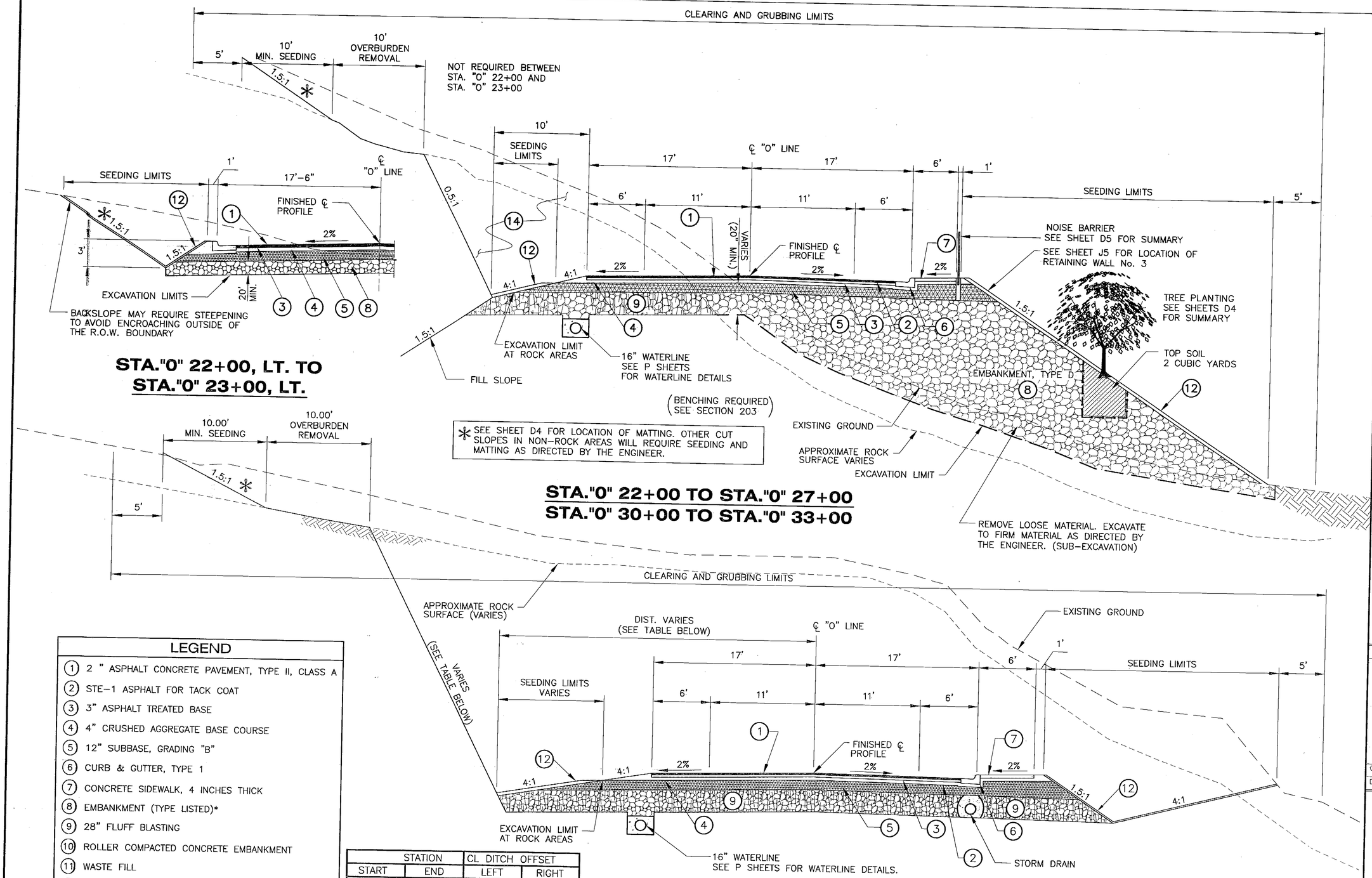
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
B1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06



LEGEND

1. 2 " ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A
2. STE-1 ASPHALT FOR TACK COAT
3. 3" ASPHALT TREATED BASE
4. 4" CRUSHED AGGREGATE BASE COURSE
5. 12" SUBBASE, GRADING "B"
6. CURB & GUTTER, TYPE 1
7. CONCRETE SIDEWALK, 4 INCHES THICK
8. EMBANKMENT (TYPE LISTED)*
9. 28" FLUFF BLASTING
10. ROLLER COMPACTED CONCRETE EMBANKMENT
11. WASTE FILL
12. 4" TOPSOIL
13. GEOTEXTILE, SEPARATION
14. UNCLASSIFIED EXCAVATION

* WHEN NO TYPE IS LISTED, TYPE A OR D MAY BE USED, CONTRACTORS OPTION.

STATION		CL DITCH OFFSET	
START	END	LEFT	RIGHT
33+00	34+25	27	
34+25	35+50	33	
35+50	38+25	36	
38+25	38+50	33	
38+50	40+00	27	

ROCK CUT SLOPE	
STATION	SLOPE
"O" 25+00 TO "O" 34+50	.5:1
"O" 34+50 TO "O" 40+00	.25:1

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\Ktn\71811A\Planset\B_Typs.dwg
Mon, 06/May/02 10:29AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: B2

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: M.L. / K.K.

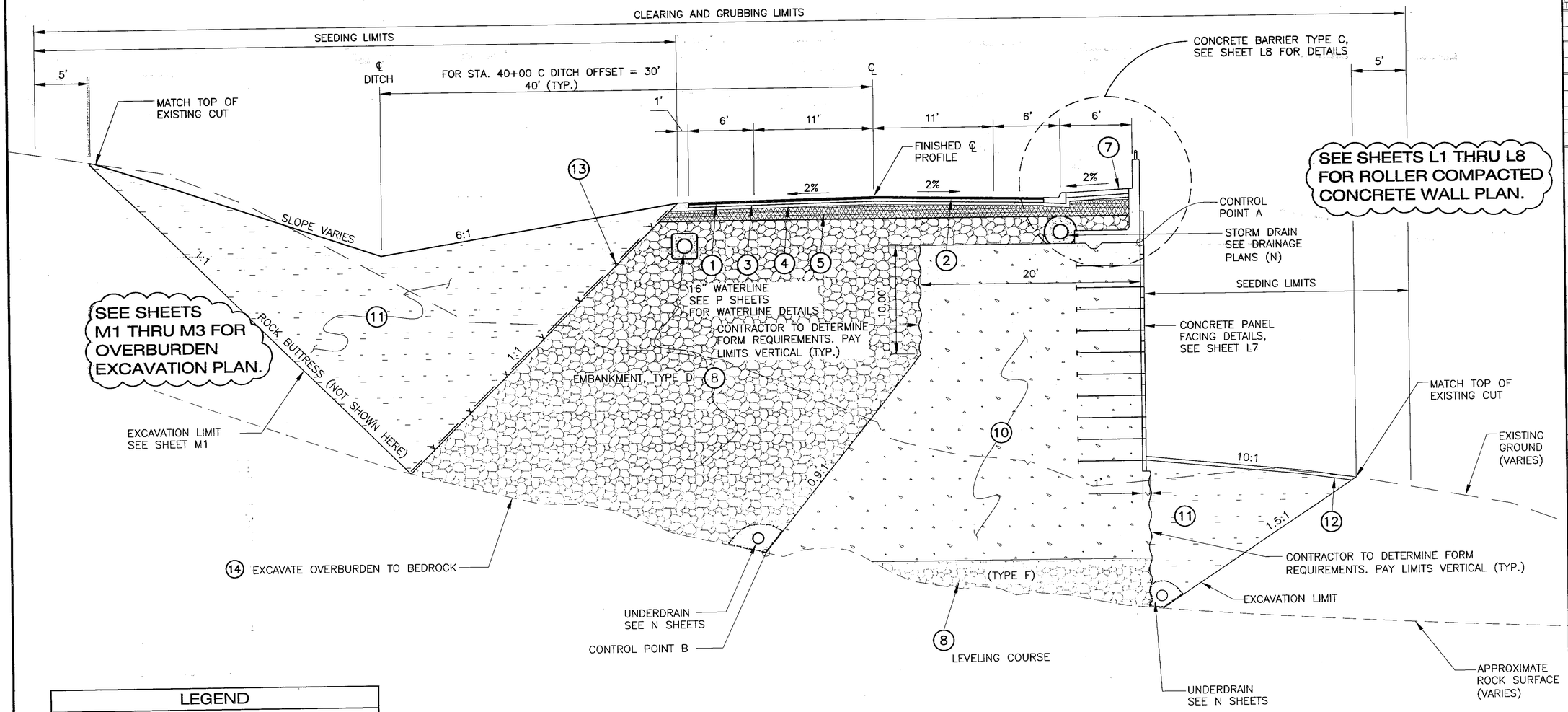
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
B2	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10/31/06



LEGEND

1	2 " ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A
2	SIE–1 ASPHALT FOR TACK COAT
3	3" ASPHALT TREATED BASE
4	4" CRUSHED AGGREGATE BASE COURSE
5	12" SUBBASE, GRADING "B"
6	CURB & GUTTER, TYPE 1
7	CONCRETE SIDEWALK, 4 INCHES THICK
8	EMBANKMENT (TYPE LISTED)*
9	28" FLUFF BLASTING
10	ROLLER COMPACTED CONCRETE EMBANKMENT
11	WASTE FILL
12	4" TOPSOIL
13	GEOTEXTILE, SEPARATION
14	UNCLASSIFIED EXCAVATION

* WHEN NO TYPE IS LISTED, TYPE A OR D MAY BE USED, CONTRACTORS OPTION.

STA."0" 40+00 TO STA."0" 44+00

* TRANSITION BETWEEN 44+00 LT. AND 44+50 LT. TO BE DETERMINED IN FIELD BY THE ENGINEER.

NOTES:

1. NO LEVELING COURSE ON BEDROCK SLOPES STEEPER THAN 15° PERPENDICULAR TO CENTERLINE. LEVELING COURSE MAY BE USED AT APPROXIMATE STATIONS 40+00 TO 42+75.
2. 10.00' MINIMUM KEYWAY, SPECIAL CLEANING, BONDING, DENTAL CONCRETE, AND BEDDING MORTAR REQUIRED WHERE BEDROCK SLOPES EXCEED 4H:1V. THIS WORK REQUIRED AT APPROXIMATE STATIONS 42+75 TO 44+25. SEE SHEET B5 FOR DETAILS.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
Q:\ktn\71811A\Planset\B_Typs.dwg
Mon, 06/May/02 10:30AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: B3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: M.L. / K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

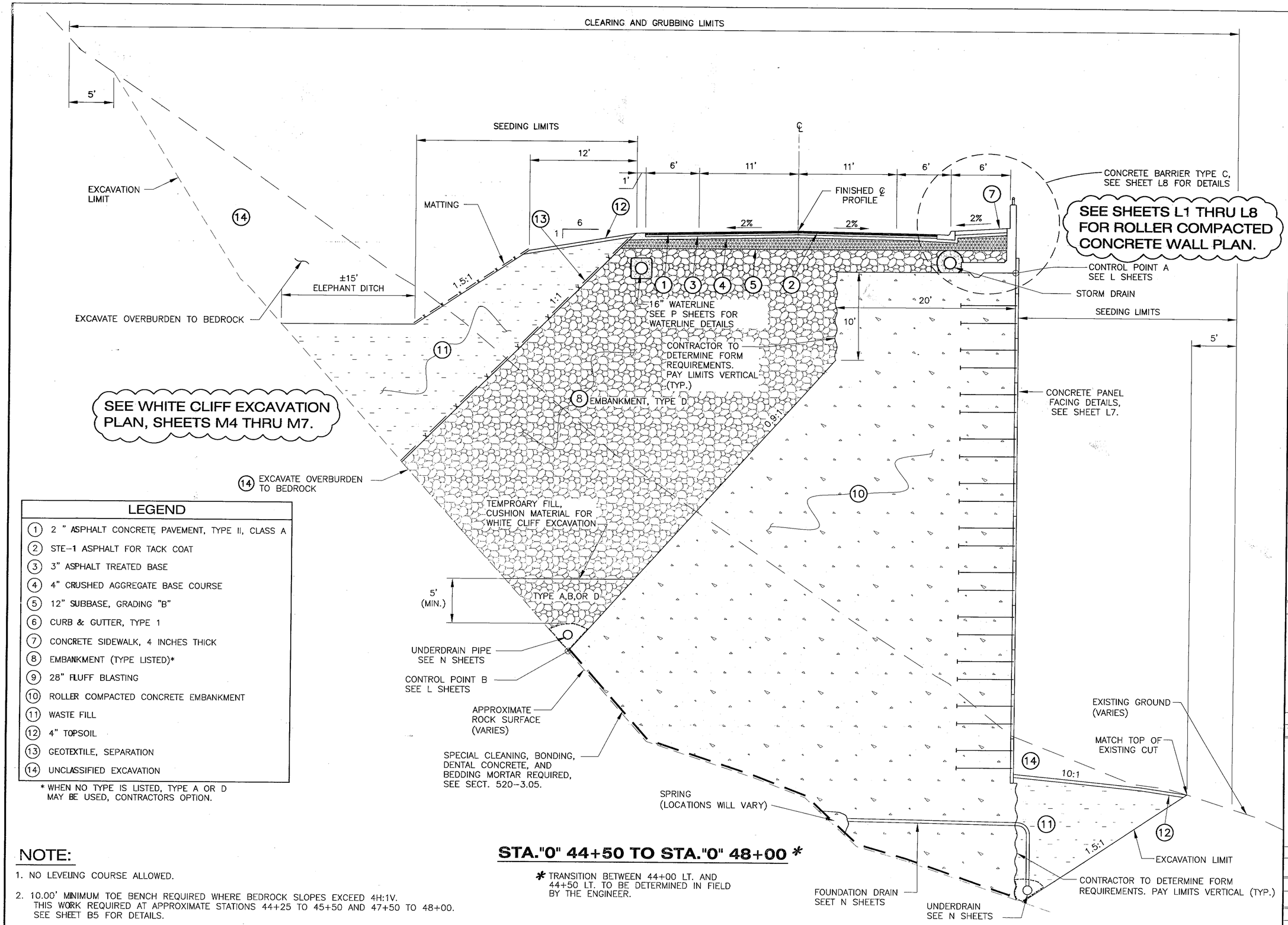
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
B3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



LEGEND

1	2 " ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A
2	STE-1 ASPHALT FOR TACK COAT
3	3" ASPHALT TREATED BASE
4	4" CRUSHED AGGREGATE BASE COURSE
5	12" SUBBASE, GRADING "B"
6	CURB & GUTTER, TYPE 1
7	CONCRETE SIDEWALK, 4 INCHES THICK
8	EMBANKMENT (TYPE LISTED)*
9	28" FLUFF BLASTING
10	ROLLER COMPACTED CONCRETE EMBANKMENT
11	WASTE FILL
12	4" TOPSOIL
13	GEOTEXTILE, SEPARATION
14	UNCLASSIFIED EXCAVATION

* WHEN NO TYPE IS LISTED, TYPE A OR D MAY BE USED, CONTRACTORS OPTION.

NOTE:

1. NO LEVELING COURSE ALLOWED.
2. 10.00' MINIMUM TOE BENCH REQUIRED WHERE BEDROCK SLOPES EXCEED 4H:1V. THIS WORK REQUIRED AT APPROXIMATE STATIONS 44+25 TO 45+50 AND 47+50 TO 48+00. SEE SHEET B5 FOR DETAILS.

STA."0" 44+50 TO STA."0" 48+00 *

* TRANSITION BETWEEN 44+00 LT. AND 44+50 LT. TO BE DETERMINED IN FIELD BY THE ENGINEER.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
Q:\Ktn\71811A\Planset\B_Typs.dwg
Mon, 06/May/02 10:30AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: B4

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: M.L. / K.K.

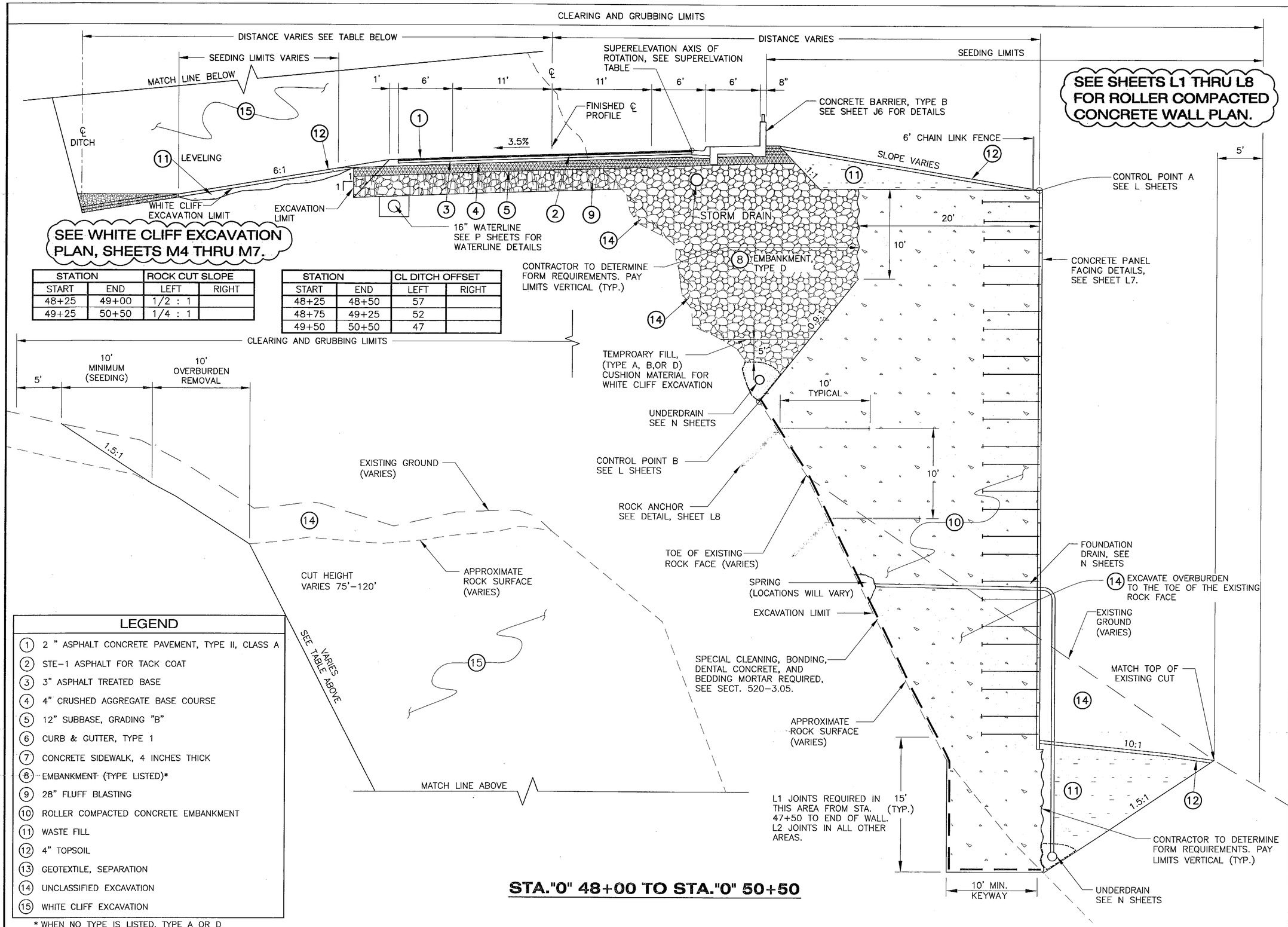
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
B4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06



STATION		ROCK CUT SLOPE	
START	END	LEFT	RIGHT
48+25	49+00	1/2 : 1	
49+25	50+50	1/4 : 1	

STATION		CL DITCH OFFSET	
START	END	LEFT	RIGHT
48+25	48+50	57	
48+75	49+25	52	
49+50	50+50	47	

LEGEND

1. 2 " ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A
2. STE–1 ASPHALT FOR TACK COAT
3. 3" ASPHALT TREATED BASE
4. 4" CRUSHED AGGREGATE BASE COURSE
5. 12" SUBBASE, GRADING "B"
6. CURB & GUTTER, TYPE 1
7. CONCRETE SIDEWALK, 4 INCHES THICK
8. EMBANKMENT (TYPE LISTED)*
9. 28" FLUFF BLASTING
10. ROLLER COMPACTED CONCRETE EMBANKMENT
11. WASTE FILL
12. 4" TOPSOIL
13. GEOTEXTILE, SEPARATION
14. UNCLASSIFIED EXCAVATION
15. WHITE CLIFF EXCAVATION

* WHEN NO TYPE IS LISTED, TYPE A OR D MAY BE USED, CONTRACTORS OPTION.

STA."0" 48+00 TO STA."0" 50+50

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\Ktn\71811A\Planset\B_Typs.dwg
Mon, 06/May/02 10:30AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: B5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: M.L. / K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

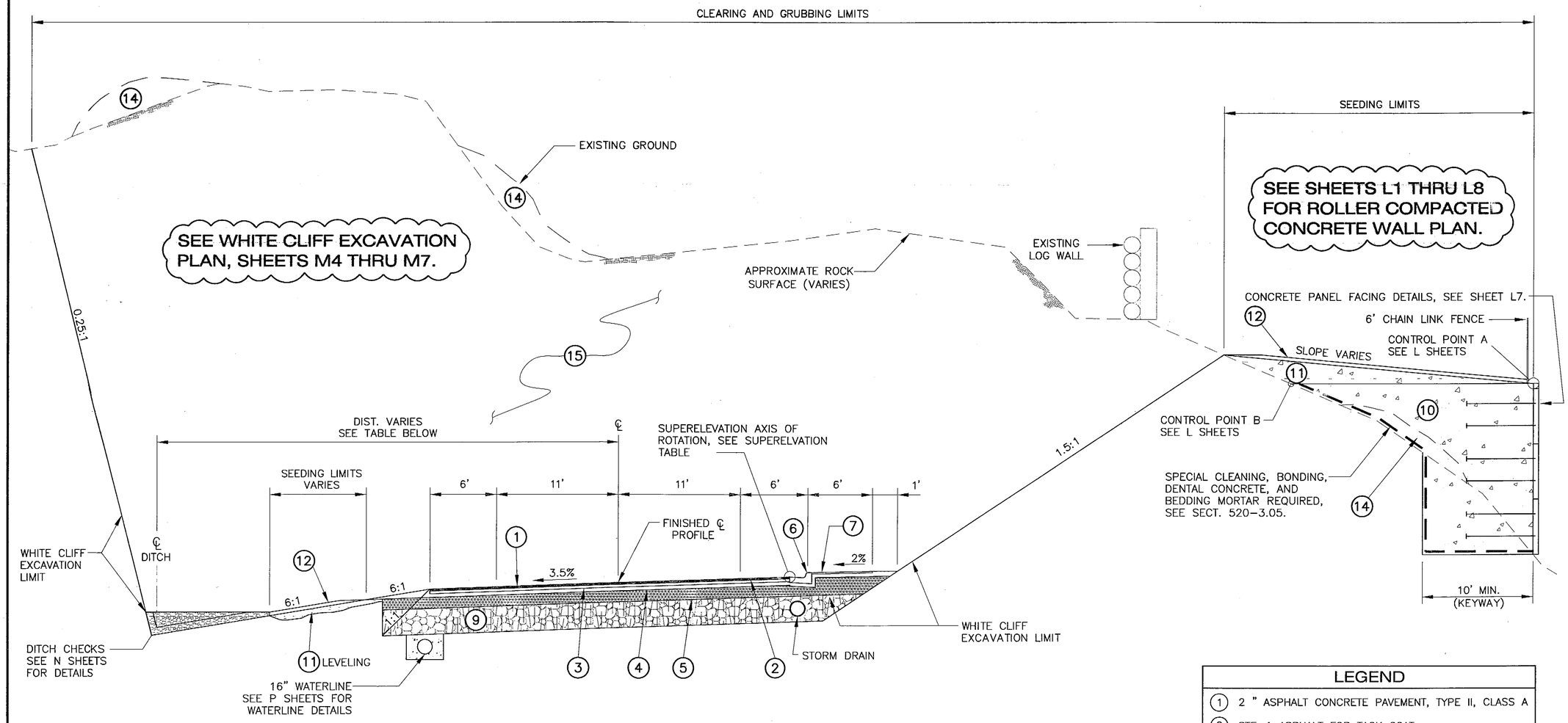
Typical Sections

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
B5	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10/31/06



STATION		CL DITCH OFFSET	
START	END	LEFT	RIGHT
	50+50	47	
50+75	52+50	42	

STA."0" 50+50 TO STA."0" 52+50

LEGEND

(1)	2 " ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A
(2)	STE-1 ASPHALT FOR TACK COAT
(3)	3" ASPHALT TREATED BASE
(4)	4" CRUSHED AGGREGATE BASE COURSE
(5)	12" SUBBASE, GRADING "B"
(6)	CURB & GUTTER, TYPE 1
(7)	CONCRETE SIDEWALK, 4 INCHES THICK
(8)	EMBANKMENT (TYPE LISTED)*
(9)	28" FLUFF BLASTING
(10)	ROLLER COMPACTED CONCRETE EMBANKMENT
(11)	WASTE FILL
(12)	4" TOPSOIL
(13)	GEOTEXTILE, SEPARATION
(14)	UNCLASSIFIED EXCAVATION
(15)	WHITE CLIFF EXCAVATION

* WHEN NO TYPE IS LISTED, TYPE A OR D MAY BE USED, CONTRACTORS OPTION.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\Ktn\71811A\Planset\B_Typs.dwg
Mon, 06/May/02 10:30AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: B6

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: M.L. / K.K.

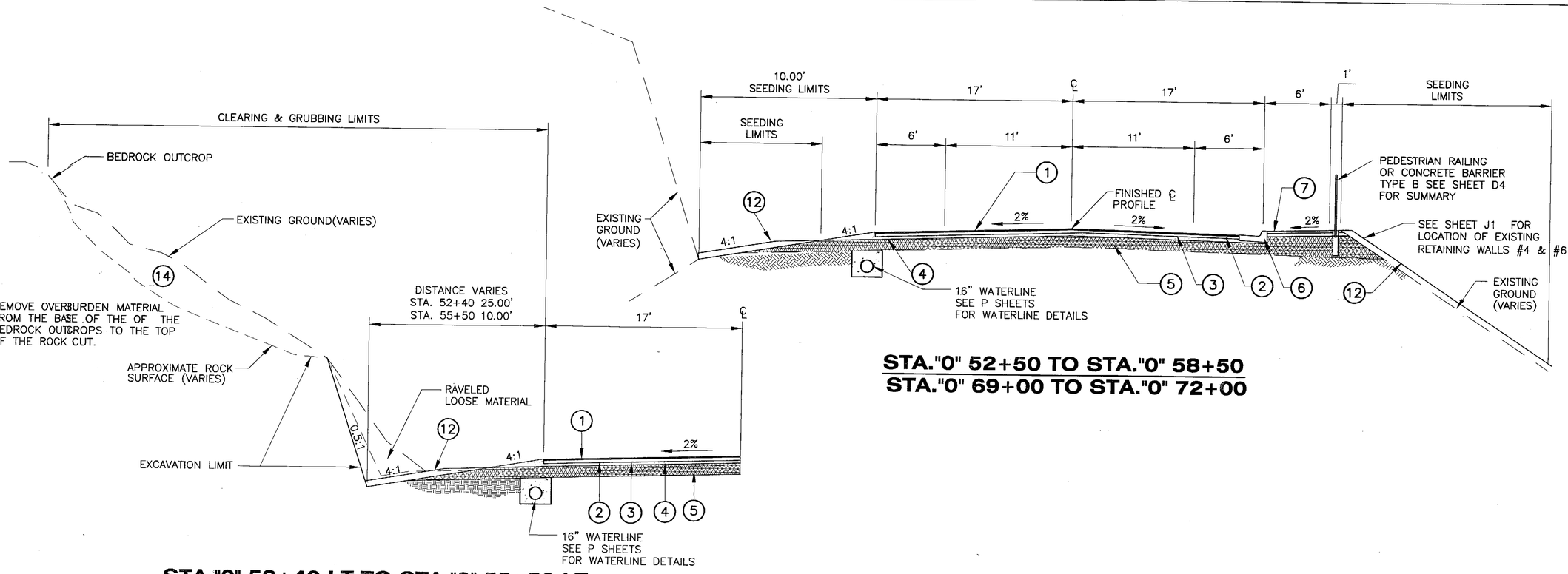
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

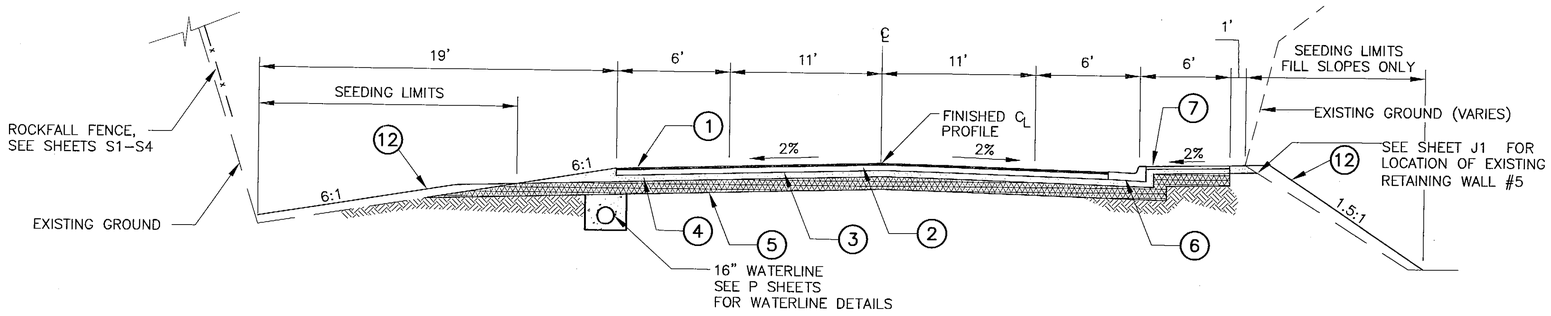
PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
B6	146

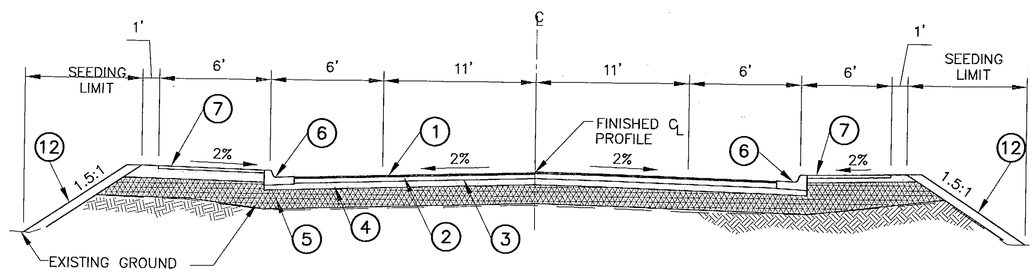


STA."0" 52+40 LT TO STA."0" 55+50 LT

STA."0" 52+50 TO STA."0" 58+50
STA."0" 69+00 TO STA."0" 72+00



STA."0" 58+50 TO STA."0" 69+00



STA."0" 72+00 TO STA. "O" 73+30
(MATCH EXISTING)

LEGEND

1	2 " ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A
2	STE–1 ASPHALT FOR TACK COAT
3	3" ASPHALT TREATED BASE
4	4" CRUSHED AGGREGATE BASE COURSE
5	12" SUBBASE, GRADING "B"
6	CURB & GUTTER, TYPE 1
7	CONCRETE SIDEWALK, 4 INCHES THICK
8	EMBANKMENT (TYPE LISTED)*
9	28" FLUFF BLASTING
10	ROLLER COMPACTED CONCRETE EMBANKMENT
11	WASTE FILL
12	4" TOPSOIL
13	GEOTEXTILE, SEPARATION
14	UNCLASSIFIED EXCAVATION

* WHEN NO TYPE IS LISTED, TYPE A OR D MAY BE USED, CONTRACTORS OPTION.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
O:\Ktn\71811A\Planset\B_Typs.dwg
Mon, 06/May/02 10:30AM Michael Limbough
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: B7

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: M.L. / K.K.

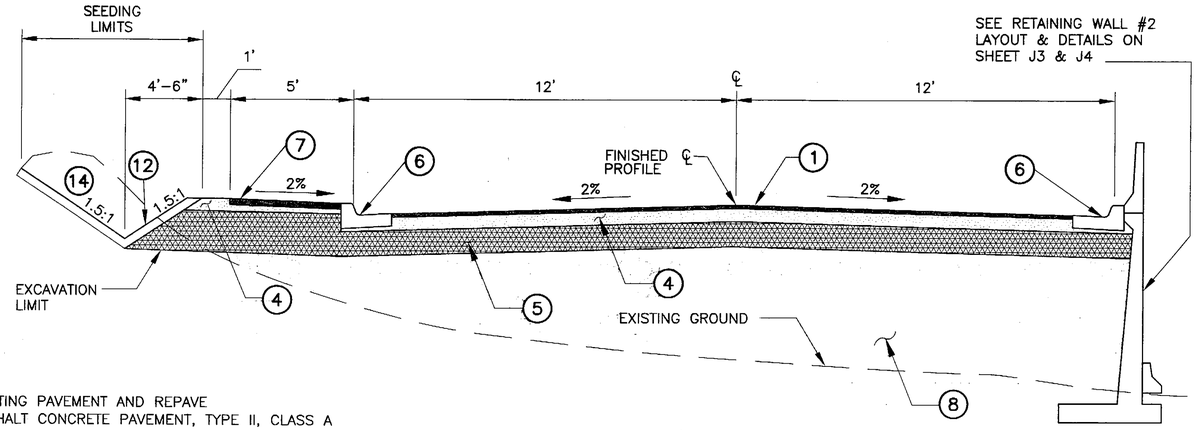
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

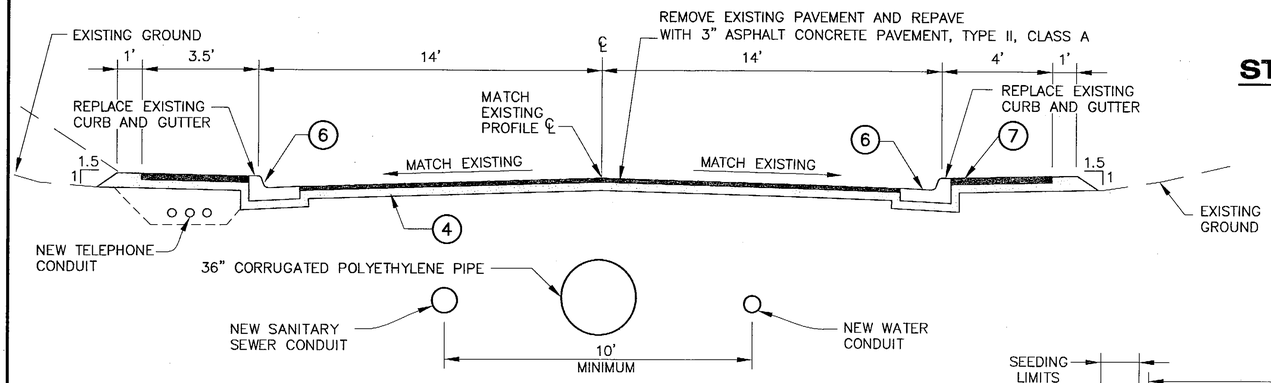
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
B7	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10-21-06

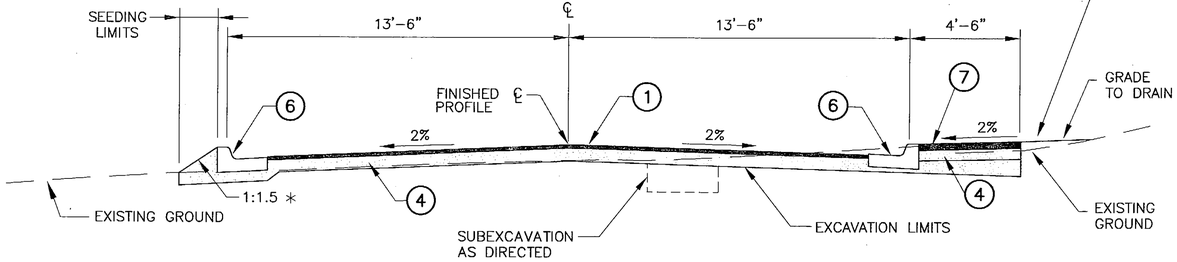


STA. "A" 10+23 TO STA. "A" 12+80



STA. "WC" 0+00 TO STA. "WC" 4+94.19

NOTE: SEE P SHEETS FOR WHITECLIFF DETAILS AND UTILITY PLANS



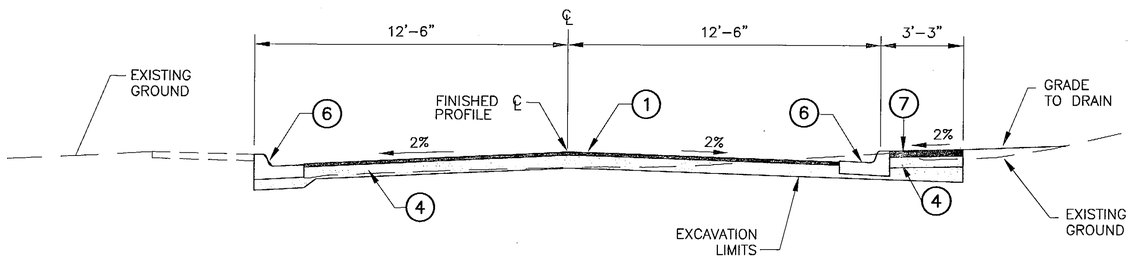
STA. "W" 11+50 TO STA. "W" 14+00

* STEEPENED SLOPE AS NECESSARY TO STAY WITHIN R.O.W. BOUNDARY

LEGEND

(1)	2 " ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS A
(4)	4" CRUSHED AGGREGATE BASE COURSE
(5)	12" SUBBASE, GRADING "B"
(6)	CURB & GUTTER, TYPE 1
(7)	CONCRETE SIDEWALK, 4 INCHES THICK
(8)	EMBANKMENT (TYPE LISTED)*
(12)	4" TOPSOIL
(14)	UNCLASSIFIED EXCAVATION

*WHEN NO TYPE IS LISTED, TYPE A OR D MAY BE USED, CONTRACTORS OPTION.



STA. "W2" 10+00 TO STA. "W2" 10+43.48

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\Ktn\71811A\Planset\B_Typs.dwg
Mon, 06/May/02 10:30AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: B8

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: M.L. / K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
B8	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 9.31.06

ESTIMATE OF QUANTITIES

ITEM No.	ITEM	UNIT	PROJECT No. 68490	KPU (WATER)	CITY OF KETCH.	TOTAL
201 (3B)	Clearing and Grubbing	Lump Sum	All Required			All Required
202 (1)	Removal of Structures and Obstructions	Lump Sum	All Required			All Required
202 (2)	Removal of Pavement	Square Yard	~~3150~~ 2133.9		~~750~~ 1197.6	~~3900~~ 4331.5
202 (3)	Removal of Sidewalk	Square Yard	~~185~~ 344.21		~~400~~ 463	~~585~~ 797.21
202 (4)	Removal of Culvert Pipe	Linear Foot	~~651~~ 678.6			~~651~~ 678.6
202 (9)	Removal of Curb and Gutter	Linear Foot	~~1150~~ 1226.3	~~920~~	1103.3	~~2070~~ 2329.61
202(13)	Removal/Securing of Rocks	Contingent Sum	All Required			All Required
203 (3)	Unclassified Excavation	Cubic Yard	~~165000~~		100'	~~165100~~
203 (5)	Embankment	Cubic Yard	~~60000~~		100'	~~60100~~ 79228.4
203(10)	Controlled Blasting	Linear Foot	~~18100~~			~~18100~~ 25429.1
203(11)	White Cliff Excavation	Lump Sum	All Required			All Required
203(12)abc	Rock Bolts + CO#6, CO# 8, CO #23	Each	~~50~~ 88			~~50~~ 88
203(13)	Rock Dowels	Each	~~50~~ 0			~~50~~ 0
203(14)	Drain Holes	Each	~~100~~ 173			~~100~~ 173
203(15)	Pre-Blast Survey	Each	~~50~~ 29			~~50~~ 29
203(16)	Contractor's Blasting Consultant	Lump Sum	All Required			All Required
203(17)	Occupant Relocation	Lump Sum	All Required			All Required
203(18)a	~~Dewatering Wells~~ Trench Drain Buttress CO #3	~~Linear Each~~ Foot	~~10~~ 1200			~~10~~ 1200
203(19)	Blasting Price Adjustment	Contingent Sum	All Required			All Required
301 (1)	Aggregate Base Course	Ton	~~7070~~ 8410.2		~~300~~ 622.79	~~7370~~ 9033
304 (1)	Subbase, Grading B	Ton	~~20600~~			~~20600~~ 18974.7
306 (1)	Asphalt Treated Base	Ton	~~3600~~			~~3600~~ 3234.7
401 (1)	Asphalt Concrete Pavement, Type II, Class A	Ton	~~2700~~		~~100~~ 141	~~2800~~ 3137.2
401 (2)	PG 58-28 Asphalt Cement	Ton	~~306~~ 291.8		~~6~~ 7.48	~~312~~ 298.95
401 (6)	Asphalt Price Adjustment	Contingent Sum	All Required			All Required
402 (1)	STE-1 Asphalt for Tack Coat	Ton	~~9~~ 5.23			~~9~~ 5.23
501 (4)	Concrete, Class A	Cubic Yard	~~38~~ 47.3			~~38~~ 47.3
501 (7)	Class A Concrete Retaining Wall	Square Foot	~~1100~~ 1847.6		~~90~~ 53.9	~~1190~~ 1901.5
506 (1)a	Treated Timber CO. #15	Lump Sum	All Required			All Required
507(6A)	Concrete Barrier-Type A	Linear Foot	~~90~~ 75			~~90~~ 75
507(6B)E	Concrete Barrier-Type B Ref. CO#5	Linear Foot	~~1140~~ 1027.5			~~1140~~ 1027.5
507 (6B)F	Concrete Barrier-Type C Ref. CO#5	Linear Foot	~~830~~ 820.8			~~830~~ 820.8
514 (1)	Temporary Rock Catchment Barrier	Linear Foot	~~350~~ 211.5			~~350~~ 211.5
514 (2)	Rockfall Fence	Square Foot	~~8400~~ 8506.9			~~8400~~ 8506.9
514 (3)	Draped Mesh	Square Foot	~~27125~~			~~27125~~
515 (1)	Interpretive Sign Support	Each	3			3
515 (2)	Interpretive Signs	Contingent Sum	All Required			All Required
516 (1)	Mechanically Stabilized Embankment Retaining Wall	Square Foot	~~1630~~ 1124.5			~~1630~~ 1124.5
516 (2)	Modification of existing MSE Wall	Lump Sum	All Required			All Required
520 (1)	Roller Compacted Concrete Embankment	Cubic Yard	~~60000~~			~~60000~~ 55716
520 (2)	Portland Cement	Ton	~~4500~~ 5279.6			~~4500~~ 5279.6
520 (3)	Fly Ash	Ton	~~3300~~ 3190.8			~~3300~~ 3190.8
520 (4)-a	Precast Panel System Ref. CO #5	Lump Sum	All Required			All Required
603 (1-12)	12-Inch CSP	Linear Foot	~~119~~ 224.9			~~119~~ 224.9
603(21-12)	12-Inch Corrugated Polyethylene Pipe	Linear Foot	~~510~~ 391			~~510~~ 391
603(21-18)	18-Inch Corrugated Polyethylene Pipe	Linear Foot	~~2384~~ 1819.4			~~2384~~ 1819.4
603(21-24)	24-Inch Corrugated Polyethylene Pipe	Linear Foot	~~1768~~ 1624.5			~~1768~~ 1624.5
603(21-36)	36-Inch Corrugated Polyethylene Pipe	Linear Foot	~~640~~ 736.8			~~640~~ 736.8
604 (1A)	Storm Sewer Manhole, Type 1	Each	~~19~~ 17			~~19~~ 17
604 (1B)	Storm Sewer Manhole, Type 2	Each	~~3~~ 4			~~3~~ 4
604 (2)	Sanitary Sewer Manhole CO#1 added item to 68490	Each	2		~~6~~ 5	~~6~~ 7
604 (3)	Reconstruct Existing Manhole	Each	~~1~~ 0			~~1~~ 0
604 (4)	Adjust Existing Manhole	Each	~~4~~ 2		~~6~~ 3	~~10~~ 5
604 (5)	Inlet, Type "A"	Each	~~33~~ 32			~~33~~ 32
605 (8)	12 Inch HDPE Underdrain	Linear Foot	~~2500~~ 1292.5			~~2500~~ 1292.5
605 (9)	Foundation Drain	Each	~~50~~ 28			~~50~~ 28
607 (3)	Chain-Link Fence	Linear Foot	900			900
607 (7)	Noise Barrier	Square Foot	~~3720~~ 3626.2			~~3720~~ 3626.2

UPDATED 03/05/2002 15:52

BASIS OF ESTIMATE

ITEM No.	ITEM	ESTIMATING FACTOR
301 (1)	CRUSHED AGGREGATE BASE COURSE	1.96 TONS/CY
401 (1)	ASPHALT CONCRETE PAVEMENT	116 lbs/SY/INCH DEPTH OF ASPHALT CONCRETE
401 (2)	PG 58-28 ASPHALT CEMENT	6% OF 401 (1) & 4% OF 306 (1)
402 (1)	STE-1 ASPHALT FOR TACK COAT	0.10 GAL/SY. 233 GAL/TON
520 (2)	CEMENT	150 LBS/CY
520 (3)	FLY ASH	110 LBS/CY

GENERAL NOTES:

1. ALL NON-ROCK EXCAVATION IS CONSIDERED WASTE.
2. TRANSITIONS BETWEEN ROCK CUT SLOPES SHALL BE SMOOTH.
3. ALL SOIL SLOPES SHALL BE SEEDED UNLESS SHOWN OTHERWISE.

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	PROJECT No. 68490	KPU (WATER)	CITY OF KETCHIKAN	TOTAL
202(14)	Hazardous Tree Removal - CO# 28	Contingent Sum	All Required			All Required
~~203(9)~~	~~Utility + Misc. Adjustments - CO#~~	~~Lump Sum~~	~~All Required~~			~~All Required~~
203(11b)	Vibration Monitoring: Seismic Surveying - CO# 4	Days	4			4
203(11c)	Vibration Monitoring: Prisms - CO#4	Lump Sum	All Required			All Required
203(11d)	Vibration Monitoring: Prism Installation - CO# 4	Hours	17			17
203(11e)	Vibration Monitoring: Prism Surveying - CO# 4	Hours	502			502
203(11f)	Extra Prisms - CO#14	Lump Sum	All Required			All Required
501(4a)	Stockpile Concrete Flumes - CO# 24	Lump Sum	All Required			All Required
501(4b)	Stockpile Concrete Special Inlet - CO# 24	Lump Sum	All Required			All Required
~~501(5)~~	~~Class AA Concrete - CO#~~	~~Lump Sum~~	~~All Required~~			~~All Required~~
501 (8)	Wall 1 Extra Work - CO# 25	Lump Sum	All Required			All Required
507(6B)	Barrier Handrail Extensions - CO#19	Linear Foot	1526			1526
514(4)	10' Temporary Rock Catchment Barrier - CO#5	Linear Foot	290.6			290.6
514(5)	12' Temporary Rock Catchment Barrier - CO#5	Linear Foot	124.2			124.2
514(6)	18' Temporary Rock Catchment Barrier - CO#5	Linear Foot	149.3			149.3
516(3)	MSE Wall Modifications - CO#20	Lump Sum	All Required			All Required
520(5)	RCC Chamfer Strip - CO#22	Lump Sum	All Required			All Required
603(22)	Sea Level Drive Drainage - CO#2	Lump Sum	All Required			All Required
607(5)	White Cliff Chain Link Fence - CO#17	Linear Foot	809.4			809.4
606(1)	Guardrail Installation - CO#27	Lump Sum	All Required	-	-	All Required
606(13)	F-SHAPED BARRIER - CO# 30	LUMP SUM	ALL REQ'D	-	-	ALL REQ'D
611(4)	TRAIL STABILIZATION - CO# 29	LUMP SUM	ALL REQ'D			ALL REQ'D
606(9)	MISC. DRAINAGE ADJUSTMENTS - C.O.# 31	LUMP SUM	ALL REQ'D			ALL REQ'D.
604(2)	MISC. UTILITY ADJUSTMENTS - CO# 32	LUMP SUM	ALL REQ'D			ALL REQ'D.
203(20)	ROADWAY STAGING SETTLEMENT - C.O.# 33	LUMP SUM	ALL REQ'D			ALL REQ'D.

-continued on page C2

PATH: Q:\Ktn\71811A\Planset\C_Est120701.dwg
Mon, 06/May/02 09:25AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Estimate of Quantities

DESIGNED BY: C. HOWARD

STATE OF ALASKA · 49th · Tracy W. Moore · CE-4932 · REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Estimate of Quantities

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
C1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.3.02

ESTIMATE OF QUANTITIES

ITEM No.	ITEM	UNIT	PROJECT No. 68490	KPU (WATER)	CITY OF KETCH.	TOTAL
608 (1A)	Concrete Sidewalk, 4 inches thick	Square Yard	~~3100~~ 2666.25		~~400~~ 249.37	~~3500~~ 2961.6
608 (1B)	Concrete Sidewalk, 6 inches thick	Square Yard	~~60~~ 281.24		~~60~~ 180.54	~~120~~ 461.78
608 (3)	Asphalt Sidewalk	Square Yard	~~30~~ 225.1			~~30~~ 225.1
608 (6)	Curb Ramp	Each	~~17~~ 9		~~17~~ 3	~~34~~ 12
609 (2)	Curb And Gutter, Type 1	Linear Foot	~~7300~~ 7227.35		~~920~~ 1131.7	~~8220~~ 8409.1
611 (3)	Slope Stabilization	Square Yard	~~2000~~ 719.93			~~2000~~ 719.93
615 (1)	Standard Signs	Square Foot	~~223.6~~ 181.25			~~223.6~~ 181.25
618 (1)A	Seeding CO. #10	Acre	7.5			7.5
619 (2)	Matting	Square Yard	~~2500~~ 3039.2			~~2500~~ 3039.2
620 (1)	Top Soil	Square Yard	~~18500~~ 9604			~~18500~~ 9604
621 (1)	Tree	Each	~~120~~ 93			~~120~~ 93
625 (1)	Pedestrian Railing	Linear Foot	~~364~~ 352.4			~~364~~ 352.4
625 (2)	Bike Rack	Each	2			2
~~626 (1-4)~~	~~Sanitary Sewer Conduit, 4 Inch~~ Del. by CO#1	Linear Foot			~~160~~ 0	~~160~~ 0
626 (1-6)	Sanitary Sewer Conduit, 6-Inch	Linear Foot			~~100~~ 244.35	~~100~~ 244.35
626 (1-8)	Sanitary Sewer Conduit, 8-Inch	Linear Foot			~~562~~ 348.5	~~562~~ 348.5
626 (1-12)	Sanitary Sewer Conduit, 12-Inch	Linear Foot			~~280~~ 276.6	~~280~~ 276.6
626 (2)	Sanitary Service Connection	Each			~~11~~ 9	~~11~~ 9
627 (1-8)	8-Inch Ductile Iron Water Conduit	Linear Foot		~~340~~ 352.8		~~340~~ 352.8
627 (1-16)	16-Inch Ductile Iron Water Conduit	Linear Foot		~~4900~~ 4847.9		~~4900~~ 4847.9
627 (3)	Install Valve Box	Each		~~14~~ 17		~~14~~ 17
627 (5)	Fire Hydrant Installation	Each		~~11~~ 9		~~11~~ 9
627 (9-6)	Install 6-Inch Gate/Butterfly Valve	Each		~~1~~ 2		~~1~~ 2
627 (9-8)	Install 8-Inch Gate/Butterfly Valve	Each		~~4~~ 3		~~4~~ 3
627 (9-16)	Install 16-Inch Gate/Butterfly Valve	Each		~~12~~ 10		~~12~~ 10
627(10)	Adjustment of Valve Box	Each	~~12~~ 11			~~12~~ 11
627(11)	Air Release Valve Assembly	Each		~~2~~ 3		~~2~~ 3
627(12)	Sewer Crossing Encasement	Each		~~12~~ 5		~~12~~ 5
630 (1)	Geotextile, Separation	Square Yard	~~4000~~ 294.4	[illegible]		~~4000~~ 294.4
635 (1)	Insulation Board	Square Foot		~~1650~~ 4636.8		~~1650~~ 4536.8
639 (1)	Residence Driveway	Each	7		9	16
640 (1)	Mobilization and Demobilization	Lump Sum	All Required	All Required	All Required	All Required
641 (1)	Erosion and Pollution Control Administration	Lump Sum	All Required	All Required	All Required	All Required
641 (2)	Erosion and Pollution Control	Contingent Sum	All Required	All Required	All Required	All Required
641 (3)	Ditch Block	Each	~~25~~ 10			~~25~~ 10
641 (4)	Straw Bale	Each	~~20~~ 284			~~20~~ 284
641 (5)	Sediment Mat	Square Yard	~~625~~ 76.4			~~625~~ 76.4
641 (6)	Temporary Seeding	Acre	~~30~~ 0.052			~~3~~ 0.052
641 (7)	Inlet Control Barrier	Each	~~57~~ 15			~~57~~ 15
641 (8)	Sediment Control Barrier	Linear Foot	~~5210~~ 1521.9			~~5210~~ 1521.9
641 (9)	Sediment Filter Bag	Each	~~6~~ 4.706	0.222	0.072	~~6~~ 5
641 (10)	Erosing and Pollution Control Price Adjustment	Contingent Sum	All Required			All Required
642 (1)	Construction Surveying	Lump Sum	All Required	All Required	All Required	All Required
642 (3)	Three Person Survey Party	Hour	~~30~~ 39.92			~~30~~ 39.92
642 (4)	Set Primary Monument	Each	8			8
642(10)	Monument Cases	Each	8			8
643 (2)	Traffic Maintenance	Lump Sum	All Required	All Required	All Required	All Required
643(25)	Public Informational Program	Lump Sum	All Required			All Required
644 (6)	Vehicles	Lump Sum	All Required			All Required
645 (1)	Training Program for 2 Trainee/Apprentice	Labor Hour	1000			1000
646 (1)	CPM Scheduling	Lump Sum	All Required			All Required
660 (3)	Highway Lighting System Complete	Lump Sum	All Required			All Required
~~660 (14)~~	~~Telephone Conduit Installation~~ Del. by CO#1	~~Lump Sum~~		~~All Required~~		~~All Required~~
661 (1)	Load Center, Type 1	Each	2			2
669 (1)	Permanent Traffic Recorder System Complete	Lump Sum	All Required			All Required
670 (8)	Recessed Pavement Markers	Each	~~108~~ 90			~~108~~ 90
670(10)	Methyl Methacrylate Pavement Markings	Lump Sum	All Required			All Required

UPDATED 01/05/2002 11:26

ESTIMATE OF EXCAVATION QUANTITIES

APPROXIMATE LOCATION	FROM STATION	TO STATION	ROCK (yd^3)	NON-ROCK (yd^3)	TOTAL (yd^3)
BOP TO PARKING AREA	20+25	27+00	4,000	2,000	6,000
PARKING AREA	27+00	30+00	40,000	4,000	44,000
PARKING AREA TO LOWER RCC WALL	30+00	40+00	35,000	10,000	45,000
LOWER RCC WALL TO WHITECLIFF	40+00	48+00	500	59,500	60,000
WHITECLIFF (NON-ROCK)	48+00	53+00		2,000	2,000
OVERBURDEN REMOVAL	52+40	55+50		6,000	6,000
OVERBURDEN REMOVAL TO EOP	55+50	73+30		1,500	1,500
	TOTALS		79,500	85,000	
	TOTAL UNCLASSIFIED EXCAVATION = 164,500				

WHITECLIFF EXCAVATION

WHITECLIFF EXCAVATION	48+50	53+00	60,000	UNCLASSIFIED ABOVE
	TOTAL WHITECLIFF EXCAVATION = 60,000			

ESTIMATE OF WASTE FILL QUANITIES

APPROXIMATE LOCATION	FROM STATION	TO STATION	TOTAL (yd^3)
LOWER RCC WALL AREA	40+00	50+70	18,000

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	PROJECT No. 68490	KPU (WATER)	CITY OF KETCHIKAN	TOTAL
608(1C)	Sidewalk Modification: Washington St - CO#21	Lump Sum	All Required			All Required
~~608(6A)~~	~~Detectable Warning Strips - CO#~~					
625(3)	Wooden Pedestrian Railing - CO#12	Lump Sum	All Required			All Required
627(1-6)	6 INCH DUCTILE IRON CONDUIT - CO#18	Lump Sum		All Required		All Required
641(11)	Miscellaneous Drainage Work - CO#26	Lump Sum	All Required			All Required
660(15)	Electrical Trench Widening - CO#7	Lump Sum		All Required		All Required

PATH:
Q:\Ktn\71811A\Planset\C_Est120701.dwg
Mon, 06/May/02 09:25AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Estimate of Quantities

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Estimate of Quantities

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
C2	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06

DRAINAGE STRUCTURE SUMMARY

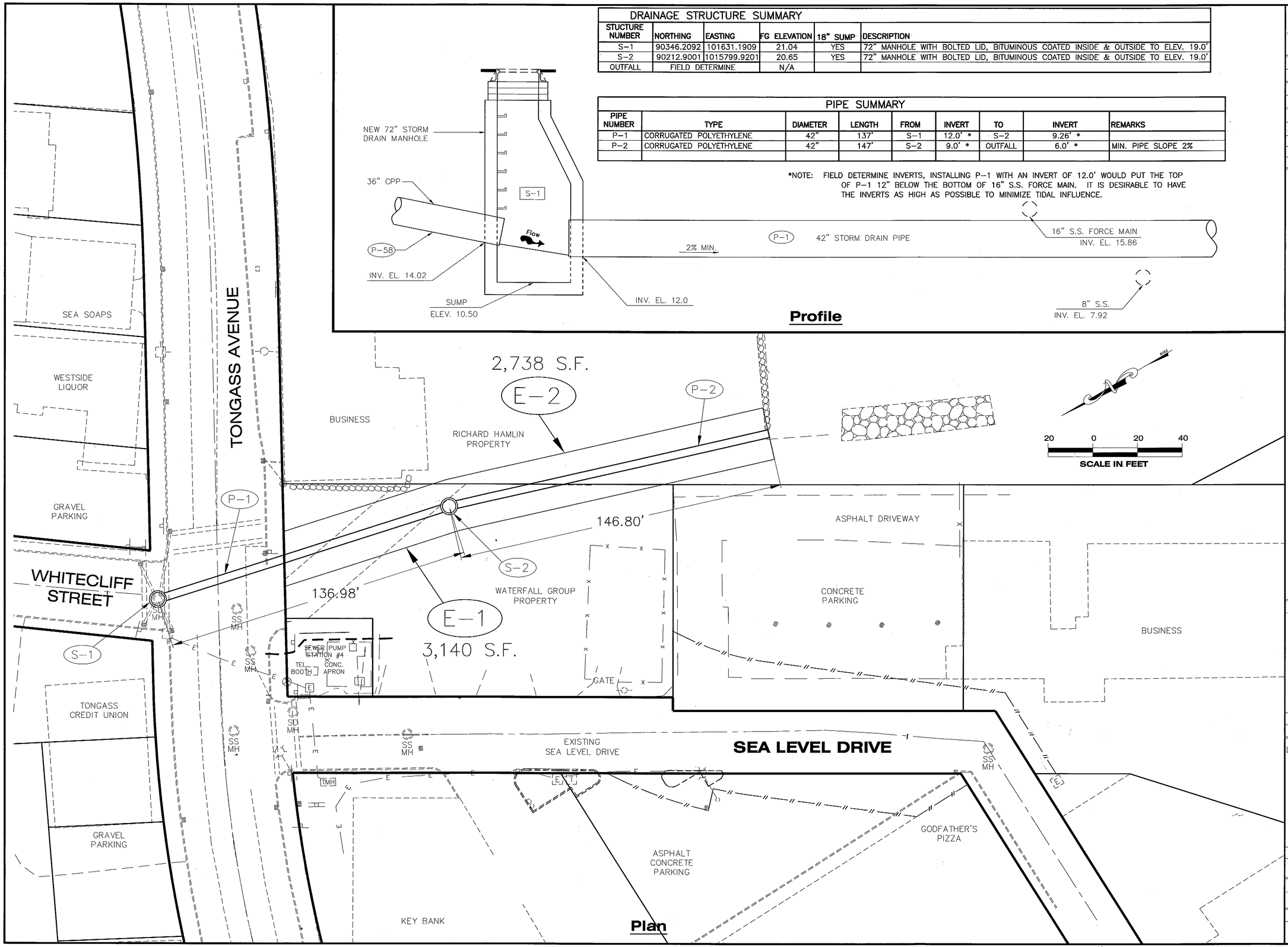
STUCTURE NUMBER	NORTHING	EASTING	FG ELEVATION	18" SUMP	DESCRIPTION
S-1	90346.2092	101631.1909	21.04	YES	72" MANHOLE WITH BOLTED LID, BITUMINOUS COATED INSIDE & OUTSIDE TO ELEV. 19.0'
S-2	90212.9001	1015799.9201	20.65	YES	72" MANHOLE WITH BOLTED LID, BITUMINOUS COATED INSIDE & OUTSIDE TO ELEV. 19.0'
OUTFALL	FIELD DETERMINE		N/A		

PIPE SUMMARY

PIPE NUMBER	TYPE	DIAMETER	LENGTH	FROM	INVERT	TO	INVERT	REMARKS
P-1	CORRUGATED POLYETHYLENE	42"	137'	S-1	12.0' *	S-2	9.26' *	
P-2	CORRUGATED POLYETHYLENE	42"	147'	S-2	9.0' *	OUTFALL	6.0' *	MIN. PIPE SLOPE 2%

*NOTE: FIELD DETERMINE INVERTS, INSTALLING P-1 WITH AN INVERT OF 12.0' WOULD PUT THE TOP OF P-1 12" BELOW THE BOTTOM OF 16" S.S. FORCE MAIN. IT IS DESIRABLE TO HAVE THE INVERTS AS HIGH AS POSSIBLE TO MINIMIZE TIDAL INFLUENCE.

Profile



Plan

PATH: Q:\Ktn\71811A\Dr\SEALEVEL_Revision.dwg
Wed, 10/Aug/05 10:12AM rksnyder
TAB: PLAN-PRO

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

Work completed under C.O. # 2

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Plan & Profile

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 12.5.06

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th TRACY W. MOORE CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: R.S. / M.L.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Plan & Profile

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
CO# 2	146

DRAINAGE STRUCTURE SUMMARY

STRUCTURE NUMBER	STATION	OFFSET	ELEVATION	SUMP	REMARKS
S-1	"W" 14+00.0	LT 14.0	173.50'	YES	Inlet, Type A
S-2	"W" 14+00.0	RT 14.0	173.50'	YES	Inlet, Type A
S-3	"W" 13+16.6	RT 14.5	156.21'	YES	Inlet, Type A
S-4	"W" 13+16.3	LT 14.0	156.15'	YES	Inlet, Type A
S-5	"O" 22+13.0	RT 16.6	148.55'	YES	Storm Sewer Manhole, Type 1
S-6	"W" 11+63.5	RT 14.0	131.08'	YES	Inlet, Type A
S-7	"W" 11+63.5	LT 14.0	131.08'	YES	Inlet, Type A
S-8	"O" 22+42.6	RT 17.5	150.74'	YES	Inlet, Type A
S-9	"O" 22+42.3	LT 27.4	148.34'	YES	Inlet, Type A w/ Beehive Grate
S-10	"A" 10+61.4	LT 14.0	150.39'	YES	Storm Sewer Manhole, Type 1
S-11	"A" 11+30.7	RT 14.0	141.29'	YES	Storm Sewer Manhole, Type 1
S-12	"A" 11+60.1	RT 13.1	140.41'	YES	Storm Sewer Manhole, Type 1
S-13	"A" 11+51.3	LT 1.8	139.64'	YES	Storm Sewer Manhole, Type 2
S-14	"A" 11+49.6	LT 14.0	139.90'	YES	Inlet, Type A
S-15A	"O" 23+95.7	LT 42.2	155.34'	YES	Special Inlet, see sheet N14
S-15B	"O" 24+00.4	RT 17.5	161.66'	YES	Storm Sewer Manhole, Type 2
S-15	"O" 23+35.6	RT 17.5	157.18'	YES	Inlet, Type A
~~S-17A~~	~~"O" 25+10.5~~	~~RT 17.5~~	~~169.75'~~	~~YES~~	~~Storm Sewer Manhole, Type 1~~
S-17B	"O" 25+31.1	LT 30.5	167.23'	YES	Inlet, Type A w/ Beehive Grate
~~S-18~~	~~"O" 26+29.1~~	~~RT 17.5~~	~~176.95'~~	~~YES~~	~~Storm Sewer Manhole, Type 1~~
S-19 ~~"O" 25+81.6~~	"O" ~~26+48.5~~	LT 27.0	177.29'	YES	Inlet, Type A w/ Beehive Grate
S-20	"O" 27+29.4	LT 24.0	185.60'	YES	Storm Sewer Manhole, Type 1
S-21	"O" 27+79.7	RT 17.5	186.67'	YES	Storm Sewer Manhole, Type 1
S-22	"O" 27+52.5	LT 74.1	184.83'	YES	Inlet, Type A w/ Beehive Grate
S-23A	"O" 28+99.3	RT 17.5	191.82'	YES	Inlet, Type A
S-23B	"O" 30+35.9	LT 26.9	192.59'	YES	Storm Sewer M.H. Type I ~~Inlet, Type A~~ w/ Beehive Grate
S-24	"O" 30+66.1	RT 17.5	196.03'	YES	Inlet, Type A
S-25A	"O" 32+21.5	RT 17.5	199.97'	YES	Inlet, Type A
S-25B	"O" 32+21.5	LT 27.0	197.40'	YES	Inlet, Type A
S-26A	"O" 33+68.5	RT 17.5	203.79'	YES	Storm Sewer Manhole, Type 2
S-26B	"O" 33+78.3	LT 27.0	200.86'	YES	Inlet, Type A w/ Beehive Grate
S-27A	"O" 35+15.1	LT 33.2	202.75'	YES	Inlet, Type A w/ Beehive Grate
S-27B	"O" 35+27.4	RT 17.5	207.71'	YES	Inlet, Type A
S-28A	"O" 36+47.1	LT 36.0	205.68'	YES	Inlet, Type A w/ Beehive Grate
S-28B	"O" 37+03.0	RT 17.5	211.58'	YES	Inlet, Type A
~~S-29A~~	~~"O" 38+33.6~~	~~LT 34.5~~	~~208.36'~~	~~YES~~	~~Inlet, Type A w/ Beehive Grate~~
S-29B	"O" 38+79.6	RT 17.5	213.98'	YES	Inlet, Type A
S-30A	"O" 40+53.7	LT 40.0	211.84'	YES	Storm Sewer M.H. Type I ~~Inlet, Type A~~ w/ Beehive Grate
S-30B	"O" 40+84.3	RT 17.5	216.15'	NO	RCC Inlet Type 1
S-31A	"O" 41+85.3	LT 40.0	213.27'	YES (4')	Storm Sewer M.H. Type I ~~Inlet, Type A~~ w/ Beehive Grate
S-31B	"O" 42+90.5	RT 17.5	218.46'	NO	RCC Inlet Type 1
S-32A	"O" 44+82.0	RT 17.5	224.37'	NO	RCC Inlet Type 1
S-32B	"O" 44+~~78.1~~	~~RT LT 48.0 17.5~~	~~209.06'~~	~~YES NO~~	Storm Sewer Manhole, Type 1 ~~w/ Beehive Grate~~
S-32C	"O" 44+78.4	LT 66.6	203.06'	YES (4')	Storm Sewer Manhole, Type 1 w/ Beehive Grate
~~S-32D~~ 32	"O" ~~46+72.9~~ 30	LT 66.4	~~213.86'~~	YES (4')	Inlet, Type A w/ Beehive Grate
S-33A	"O" 47+29.3	RT 17.5	240.08'	NO	RCC Inlet Type 1
S-33B	"O" 48+25.0	LT 57.0	240.57'	YES (5')	Storm Sewer Manhole, Type 1 w/ Beehive Grate
~~S-34~~	~~"O" 48+86.5~~	~~RT 17.5~~	~~254.73'~~	~~YES~~	~~Storm Sewer Manhole, Type 1~~
~~S-35~~	~~"O" 50+50.2~~	~~RT 17.5~~	~~268.94'~~	~~YES~~	~~Storm Sewer Manhole, Type 1~~
~~S-36~~	~~"O" 52+36.9~~	~~LT 42.6~~	~~273.24'~~	~~YES~~	~~Inlet, Type A w/ Beehive Grate~~
S-37	"O" 52+99.1	RT 17.5	280.92'	YES	Storm Sewer Manhole, Type 1
S-38	"O" 54+64.7	RT 17.5	–	YES	Reducer and Grate Only
S-39	"O" 55+79.3	RT 17.5	–	YES	Reducer and Grate Only
S-40	"O" 57+76.7	RT 17.5	–	YES	Reducer and Grate Only
S-41	"O" 69+98.2	RT 17.5	–	YES	New installation ~~Reducer and Grate Only~~
S-42	"F" 10+37.0	LT 26.1	254.97'	YES	Inlet, Type A w/ Beehive Grate
~~S-43~~	~~"F" 10+40.0~~	~~LT 14.5~~	~~257.53'~~	~~YES~~	~~Inlet, Type A~~
S-44	"F" 10+40.2	RT 14.8	257.53'	YES	Inlet, Type A
S-45	"O" 72+00.7	RT 17.5	254.74'	YES	Inlet, Type A
~~S-46~~	~~"O" 46+50.0~~	~~LT 29.7~~	~~165.98'~~	~~YES~~	~~Storm Sewer Manhole, Type 1 w/ Beehive Grate underdrain collector~~

UPDATED 03/05/2002 14:28

NOTE:
1. STATION, OFFSETS, AND ELEVATIONS FOR CURB INLETS ARE MEASURED TO THE TOP BACK OF CURB (TBC). FIELD INLETS ARE MEASURED TO THE CENTER OF STRUCTURE.

2. ALL STRUCTURES SHALL HAVE STANDARD 18" SUMP, UNLESS OTHERWISE NOTED IN THE TABLE ABOVE. DEVIATIONS FROM THE STANDARD SUMP DEPTH ARE SHOWN IN PARENTHESES.

3. INLET INFORMATION AND SPECIAL DETAILS SHOWN ON SHEET N5.

4 BEEHIVE GRATES SHALL BE THE NEENAH TYPE R-2560-E10, OR APPROVED EQUAL.

SLOPE PROTECTION AT PIPE END

PIPE	SLOPE PROTECTION TYPE	REMARKS
P-17	III	
P-19	III	
P-22	II	
P-25	I & III	
P-29	III	
P-30	II	
P-32	I & III	
P-34	I & III	
P-36	I & III	
P-38	I	
P-40	II & III	
P-43a	II	

UPDATED 02/05/2002 10:15

DRAINAGE STRUCTURE SUMMARY - CONTINUED (ADDITIONAL STRUCTURES)

APPROXIMATE LOCATION	REMARKS
≈ "WC" 4+85	TYPE II Storm Sewer Manhole
≈ "WC" 2+70 20'LT	INLET, TYPE A
≈ "WC" 4+75 35' RT	INLET, TYPE A
1900/1902 Second Ave	INLET, TYPE A on property Ref. CO #26
1900/1902 Second Ave	INLET, TYPE A in gutter-2nd Ave Ref. CO #26
White Cliff St. + Tongass Ave. intersection N 90346.2032 E 101631.1909	TYPE II Storm Sewer Manhole Ref. CO #2
South of Tongass Ave., East of Sea Level Dr. N 90212.9001 E 101599.9201	TYPE II Storm Sewer Manhole Ref. CO #2

SLOPE STABILIZATION

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	REMARKS
"O" 30+75	LT	"O" 31+75	LT	INSTALL AT CUT BACKSLOPE

UPDATED 02/05/2002 10:17

NOTES:
1. STATION AND OFFSET ARE ONLY APPROXIMATE AND MAYBE ADJUSTED AS DIRECTED BY THE ENGINEER.
2. OTHER AREAS MAY REQUIRE SLOPE STABILIZATION AS DIRECTED BY THE ENGINEER.
3. SEE SHEET N8 FOR DETAILS.

VALVE BOX ADJUSTMENT SUMMARY

STATION	OFFSET LEFT	OFFSET RIGHT	REMARKS
"W" 12+42.7	17.9'		
"W" 12+40.4	9.9'		
"W" 12+42.7	9.2'		
"W" 12+40.8	6.7'		
"W" 13+00	8.5'		
"W" 13+35.5	10.3'		
"A" 11+79.9	3.6'		
"A" 11+79.8	4.4'		
"A" 11+83.6	4.4'		
"A" 11+85.1	7.1'		
"A" 11+84.8	14.1'		
"A" 11+86.1	19.1'		

UPDATED 26/04/2002 9:19

PATH: Q:\Ktn\71811A\Planset\D_Sums.dwg
Mon, 06/May/02 09:28AM Michael Limbaug
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SUM1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Miscellaneous Summaries

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION PROJECT NO. 68490

Miscellaneous Summaries

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
D1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06

PIPE SUMMARY

PIPE NUMBER	TYPE	DIAMETER (in)	LENGTH (ft)	FROM STRUCTURE/STATION	INVERT	TO STRUCTURE/STATION	INVERT	SLOPE	REMARKS
P-1a	CPP	12"	26	S-1	168.28	S-2	168.23	0.2%	
P-1b	~~CPP~~ CMP	12"	10.0	"W" 14+02.51, 13.0 RT	168.24	S-2	168.23	1.0%	
P-2	CPP	12"	~~84~~ 85.0	S-2	168.15	S-3	152.88	18.2%	
P-3	CPP	12"	~~27~~ 26.0	S-4	152.92	S-3	152.80	0.4%	
P-4	CPP	12"	53.5	S-3	152.71	S-5	142.51	19.2%	
P-5a	CPP	12"	~~100~~ 101.5	S-5	142.43	S-6	124.00	18.5%	
P-5b	~~CPP~~ CMP	12"	11.0	S-6	123.92	"W" 11+60.03, 13.0 RT	123.91	1.0%	
P-6	CPP	12"	26	S-7	124.05	S-6	124.00	0.2%	
P-7	CPP	12"	~~30~~ 29.5	S-8	142.65	S-5	142.51	0.5%	
P-8	CPP	12"	~~44~~ 43.5	S-9	142.81	S-8	142.72	0.2%	
P-9	CPP	18"	69	S-10	146.74	S-11	137.64	13.1%	
P-10	CPP	18"	~~22~~ 21	S-11	137.50	S-12	136.76	3.4%	
P-11	CPP	18"	16	S-12	136.70	S-13	135.99	4.5%	
P-12	CPP	18"	~~12~~ 13.5	S-14	136.25	S-13	136.00	2.2%	
P-13a	CPP	36"	~~67~~ 69.8	S-15b	142.16	S-13	131.40	16.2%	
P-13b	CPP	36"	~~24~~ 31.4	S-13	131.30	"A" 11+75.5, 1.6 RT	130.75	2.3%	
P-14	CPP	36"	~~53~~ 55.5	S-15a	153.24	S-15b	146.87	12.1%	
P-15	CPP	18"	65	S-16	153.00	S-15b	152.70	0.5%	
~~P-16~~	~~CPP~~	~~24"~~	~~109~~	~~S-17a~~	~~162.02~~	~~S-15b~~	~~157.01~~	~~4.6%~~	DELETED
P-17b	CPP	24"	~~48~~ 135	S-17b	162.19	~~S-17a~~ S-15b	162.10	0.2%	
~~P-18~~	~~CPP~~	~~24"~~	~~115~~	~~S-18~~	~~173.49~~	~~S-17a~~	~~165.10~~	~~7.3%~~	DELETED
P-19b	CPP	24"	~~43~~ 62	S-19	174.13	S-~~18~~ 17b	173.57	1.3%	
P-20	CPP	18"	~~65~~ 60.3	S-20	181.29	S-21	181.14	0.2%	
P-21	CPP	18"	~~93~~ 55.4	S-22	181.48	S-20	181.37	0.1%	
P-22	CPP	24"	~~27~~ 30	S-21	175.00	"O" 27+87.0, 43.0' RT	173.94	3.9%	
P-23	CPP	18"	~~118~~ 117	S-23a	187.67	S-21	179.50	6.9%	
P-24	–	–	–	–	–	–	–	–	NOT USED
P-25	CPP	~~24"~~ 36"	~~65~~ 68	S-23b	187.03	"O" 30+60.9, 38.8' RT	185.75	2.0%	
P-26	CPP	18"	155	S-24	192.38	S-25a	191.90	0.3%	
P-27	CPP	~~24"~~ 18"	~~33~~ 44	S-25b	191.56	S-25a	191.49	0.2%	
P-28	CPP	24"	~~147~~ 146	S-25a	191.41	S-26a	190.35	0.7%	
P-29	CPP	24"	~~44~~ 46	S-26b	195.56	S-26a	~~194.68~~	2.0%	
P-30	CPP	36"	~~27~~ 30	S-26a	190.00	"O" 33+62.3, 45.4' RT	189.50	1.9%	
P-31	CPP	24"	~~159~~ 158	S-27b	203.56	S-26a	190.40	8.3%	
P-32	CPP	24"	~~76~~ 82	S-27a	199.02	"O" 34+94.7, 44.8' RT	~~197.50~~	2.0%	
P-33	CPP	24"	~~176~~ 174	S-28b	207.43	S-27b	203.70	2.1%	
P-34	CPP	24"	~~73~~ 126	S-28a	202.68	"O" 36+61.5, 38.5' RT	201.23	2.0%	
P-35	CPP	24"	~~177~~ 176	S-29b	210.24	S-28b	207.50	1.6%	
~~P-36~~	~~CPP~~	~~24"~~	~~76~~	~~S-29a~~	~~205.36~~	~~"O" 38+40.9, 41.9' RT~~	~~203.90~~	~~1.9%~~	
P-37	CPP	18"	205	S-30b	212.75	S-29b	210.33	1.2%	
P-38	CPP	24"	~~66~~ 67	S-30a	207.84	"O" 40+71.3, 24.7' RT	207.84	0.0%	
P-39	CPP	18"	~~206~~ 207.5	S-31b	215.23	S-30b	212.83	1.2%	
P-40	CPP	24"	~~69~~ 65	S-31a	209.27	"O" 42+09.0, 26.2' RT	209.27	0.0%	
P-41	–	–	–	–	–	–	–	–	NOT USED
P-42	CPP	18"	~~192~~ 193.5	S-32a	221.14	S-31b	215.31	3.0%	
P-43a	CPP	24"	~~19~~ 94	S-32c	200.06	S-32b	200.06	0.0%	
~~P-43b~~	~~CPP~~	~~24"~~	~~73~~	~~S-32b~~	~~173.80~~	~~"O" 44+96.1, 24.7' RT~~	~~173.80~~	~~0.0%~~	See Pipe 44b
P-44a	CPP	18"	248	S-33a	236.02	S-32a	221.22	6.0%	
P-44b	CPP	24"	~~191~~ 196.5	S-~~32d~~ 32c	210.81	S-32c	199.66	5.8%	
P-45	–	–	–	–	–	–	–	–	NOT USED
~~P-46~~	~~CPP~~	~~18"~~	~~95~~	~~S-34~~	~~251.29~~	~~S-33b~~	~~238.07~~	~~13.9%~~	
P-47	CPP	18"	~~120~~ 121.5	S-33b	237.99	S-33a	236.10	1.6%	
~~P-48~~	~~CPP~~	~~18"~~	~~165~~	~~S-35~~	~~265.17~~	~~S-34~~	~~251.23~~	~~8.4%~~	
~~P-49~~	~~CPP~~	~~18"~~	~~194~~	~~S-36~~	~~269.74~~	~~S-35~~	~~265.25~~	~~2.3%~~	
P-50	CPP	18"	~~75~~ 72	S-37	276.25	"O" 53+84, 16.5' RT	275.50	1.0%	CONNECT TO EX. PIPE STUB
P-51	CPP	18"	~~13~~ 43	S-42	250.50	~~S-43~~ S-44	250.37	1.0%	
~~P-52~~	~~CPP~~	~~18"~~	~~27~~	~~S-43~~	~~250.29~~	~~S-44~~	~~249.67~~	~~2.3%~~	
P-53	CPP	18"	~~58~~ 46	S-44	249.59	S-45	248.38	2.1%	
~~P-54~~	~~CPP~~	~~18"~~	~~171.5~~	~~S-46~~	~~160.40~~	~~"O" 44+76.80~~	~~157.80~~	~~1.5%~~	Not on plans
P-55	CMP	12"	60	"O" 33+~~81.4~~88	27.0' LT	200.86	"O" 33+~~68.7~~80	31.3' RT	199.25	2.7%	UTILITY PIPE
P-56	CMP	12"	~~50~~ 60	39+80 "O" ~~38+36.2~~,	34.4' LT	208.36	34+80 "O" ~~38+43.8~~,	37.8.' RT	203.80	7.7%	UTILITY PIPE
P-57	CPP	36"	~~234~~ 233	"WC" 14+95.30,	3.4' LT	81.30	"WC" 12+64.12,	1.3' LT	44.58	15.7%	
P-58	CPP	36"	~~239~~ 237	"WC" 12+64.12,	1.3' LT	43.78	"WC" 10+27.15,	1.3' LT	14.02	12.5%	
~~P-59~~	~~CPP~~	~~24"~~	~~22~~	~~"O" 64+95~~	~~123.3' RT~~	~~260.73~~	~~"O" 64+89.92,~~	~~34' RT~~	~~260.35~~		
~~P-59a~~	~~CPP~~	~~24"~~	~~45~~	~~"O" 64+95~~			~~5-41~~				

UPDATED 5/2/2002 10:32

CPP = CORRUGATED POLYETHYLENE PIPE

CENTERLINE MONUMENTS & CASES

STATION	REMARKS
"O" 23+00.00	P.O.T.
"O" 24+60.54	P.C.
"O" 28+29.27	P.T.
"O" 46+68.57	P.C.
"O" 53+10.13 BK.	P.T. EQ.
"O" 62+23.46	P.C.
"O" 67+26.34	P.T.
"O" 69+96.78	P.C.

UPDATED 26/04/2002 9:23

TEMPORARY DITCH BLOCKING SUMMARY
(SEE SHEET N6 FOR DETAILS)

STATION	OFFSET LEFT	OFFSET RIGHT	REMARKS
"O" 24+30		X	
"O" 26+45		X	
"O" 30+70		X	
"O" 34+00		X	
"O" 35+50		X	
"O" 38+90		X	
"O" 41+55		X	
"O" 56+50		X	
"O" 59+00		X	
"O" 67+50		X	
"O" 70+00		X	

UPDATED 26/04/2002 9:22

INSULATION BOARD SUMMARY

LOCATION STORM PIPE CROSSING OVER OR UNDER WATER & SEWER LINE	REMARKS
P-1	
P-3	
P-4	
P-6	
P-8	WATER OVER S.D.
P-14	WATER OVER S.D.
P-17	WATER OVER S.D.
P-19	WATER OVER S.D.
P-20	WATER UNDER S.D.
P-25	WATER OVER S.D.
P-27	WATER OVER S.D.
P-29	WATER OVER S.D.
P-32	WATER OVER S.D.
P-34	WATER OVER S.D.
P-36	WATER OVER S.D.
P-47	WATER UNDER S.D.
P-49	WATER UNDER S.D.

UPDATED 26/04/2002 9:17

DITCH CHECKS

STATION	OFFSET LEFT	OFFSET RIGHT	REMARKS
48+25 To 52+20		VARIES	SEE N SHEETS FOR SPECIAL DITCHING
62+60		35'	
64+15		35'	
65+70		35'	

UPDATED 02/05/2002 11:00

PATH: Q:\Ktn\71811A\Planset\D_Sums.dwg
Mon, 06/May/02 09:28AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SUM2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Miscellaneous Summaries

DESIGNED BY: C. HOWARD

STATE OF ALASKA · 49th · Tracy W. Moore CE-4932 · REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION PROJECT NO. 68490

Miscellaneous Summaries

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
D2	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06

UNDERDRAIN SUMMARY

PIPE NO.	TYPE	PERFORATED	DIAMETER (in)	LENGTH (ft)	STATION	FROM OFFSET	INVERT	STATION	TO OFFSET	INVERT	CLEANOUT	*LOCATION	REMARKS
U-1	HDPE	YES	12	300.0	40+00	0.0	201.4	43+00	15.5 LT	188.5	YES	A	
U-2	HDPE	YES	12	206.5	40+00	25.0 RT	200.0	42+04	28.7 RT	189.1	YES	C	
U-3	HDPE	YES	12	81.0	42+20	25.0 RT	182.5	42+99	29.4 RT	177.1	YES	C	
U-4	HDPE	NO	12	44.5	43+00	15.5 LT	188.5	43+00	30.0 RT	187.8	YES	B	SLOPE PROTECTION, TYPE II
U-5	HDPE	YES	12	176.3	44+75	20.0 LT	188.7	43+00	15.5 LT	188.5	YES	A	
U-6	HDPE	YES	12	166.7	43+07	26.0 RT	174.3	44+73	26.0 RT	163.4	YES	C	
U-7	HDPE	NO	12	45.5	44+75	20.0 LT	175.0	44+75	26.0 RT	174.2	YES	B	SLOPE PROTECTION, TYPE II
U-8	HDPE	YES	12	178.0	44+75	20.0 LT	188.7	46+50	50.0 LT	201.9	NO	A	HIGH POINT IN CENTER
U-9	HDPE	YES	12	171.5	46+48	27.5 RT	160.3	44+80	27.5 RT	157.8	YES	C	
U-10	HDPE	NO	12	77.2	46+50	50.0 LT	162.0	S-46		160.9	YES	B	
U-11	HDPE	NO	12	77.2	46+50	50.0 LT	165.5	S-46		163.3	NO	B	RELIEF PIPE
U-12	HDPE	YES	12	20.0	46+40	50.0 LT	165.5	46+60	50.0 LT	165.5	NO	A	RELIEF PIPE
U-13	HDPE	YES	12	149.5	48+00	24.5 LT	201.9	46+50	50.0 LT	162.0	NO	A	
U-14	HDPE	NO	12	55.5	48+00	24.5 LT	201.9	48+00	31.0 RT	200.0	YES	B	VERTICAL OUTFALL PIPE
U-15	HDPE	YES	12	77.5	48+10	33.0 RT	171.8	S-46		160.9	YES	C	
U-16	HDPE	YES	12	267.5	50+43	112.0 RT	202.6	48+10	33.0 RT	171.8	YES	C	
U-17	HDPE	YES	12	291.5	50+65	85.6 RT	251.4	48+00	24.5 LT	201.9	YES	A	

UPDATED 01/05/2002 11:30

HDPE = HIGH DENSITY POLYETHYLENE

* LOCATION DESCRIPTION:
A = UPHILL FROM RCC WALL
B = EMBEDDED, THROUGH RCC WALL
C = DOWNHILL FROM RCC

NOTES:
1. ADJUST UNDERDRAIN PIPE LOCATIONS AND INVERTS TO FIT FIELD CONDITIONS.
2. PLACE UNDERDRAIN PIPE WITH A MINIMUM 1% SLOPE.
3. INSTALL CLEANOUTS AT ALL UNDERDRAIN PIPE ENDS AND AT ALL UNDERDRAIN PIPE ENDS PASSING THROUGH RCC.
4. FOR S-46 AND P-54, SEE DRAINAGE STRUCTURE SUMMARY AND PIPE SUMMARY.
5. SEE L-SHEET FOR UNDERDRAIN LOCATIONS AND N-UNDERDRAIN SHEETS FOR DETAILS.

CURB CUT SUMMARY

**STATION	**OFFSET LEFT	**OFFSET RIGHT	DETAIL	WIDTH	REMARKS
"O" 20+42.27		20'	II	12.0'	DRIVEWAY
"O" 20+67.54	14'		III	14.5'	DRIVEWAY
"O" 21+82.08		21.84'	V	8.0'	WHEELCHAIR
"O" 22+21.55	25.99'		IV	5.0'	WHEELCHAIR
"O" 22+23.23		24.47'	IV	5.0'	WHEELCHAIR
"O" 22+79.10		20.97'	V	8.0'	WHEELCHAIR
"O" 23+21.76		19.65'	IV	5.0'	WHEELCHAIR
"O" 71+48.33	22.01'		IV	5.0'	WHEELCHAIR
"O" 71+94.07	22.01'		IV	5.0'	WHEELCHAIR
"A" 11+62.79		10.62'	V	8.0'	WHEELCHAIR
"A" 11+59.95	17.55'		IV	5.0'	WHEELCHAIR
"A" 11+83.20	14.27'		IV	5.0'	WHEELCHAIR
"F" 10+58.50	26.50'		VI	5.0'	WHEELCHAIR
"W" 11+72.97	13.50'		III	8.0'	DRIVEWAY
"W" 13+33.46	13.50'		III	18.0'	DRIVEWAY
"W" 13+49.3		13.50'	III	18.0'	DRIVEWAY
OFFSITE DRAINAGE IMPROVEMENT AREA 2			II	20.0'	DRIVEWAY

UPDATED 26/04/2002 9:25

** STATION AND OFFSET ARE MEASURED TO FACE OF CURB

PEDESTRIAN RAILING INSTALLATION SUMMARY

FROM STATION	FROM OFFSET LEFT	FROM OFFSET RIGHT	TO STATION	TO OFFSET LEFT	TO OFFSET RIGHT	LENGTH	REMARKS
"O" 50+60		23.50'	"O" 53+73		23.50'	313	
"A" 10+39	16.22'		"A" 10+60	13.50'		11	
OFFSITE DRAINAGE IMPROVEMENT AREA 2						40	
					TOTAL	364.00	

UPDATED 26/04/2002 9:26

CHAIN-LINK FENCE (SEE STD. DWG. F-01.01)

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH	HEIGHT	REMARKS
~~47+28~~ 55	24.3' RT	50+~~81~~ 50	~~95.4~~' RT	~~400'~~ 335'	6'	INSTALL ALONG FRONT EDGE OF LOWER RCC WALL
48 ~~49+35~~ 50	23.5' RT	48 ~~53+73~~ 52	33.5~~23.9~~' RT	~~500'~~ 11.1'	6'	~~INSTALL ALONG FRONT EDGE OF UPPER RCC WALL~~
48 +00	LT	52±25	LT	444'	6'	vinyl coated – between Rainbird Trail & White Cliff cut: Ref. CO#17
26+50	LT	30+00	~~TOTAL =~~ LT	~~900'~~ 365.4'	6'	vinyl coated – top of Parking Area cut : Ref. CO#17

UPDATED 26/04/2002 9:27

NOTE:
1. INSTALL CHAIN-LINK FENCE AFTER WHITECLIFF EXCAVATION. PLACE CHAIN-LINK FENCE FROM BACK OF SIDEWALK, THEN ALONG THE FRONT TOP EDGE OF RCC WALLS, AND FINALLY TYING INTO FINAL CUT SLOPE OR BACK OF SIDEWALK AS REQUIRED BY THE ENGINEER.

RESIDENCE DRIVEWAYS

STATION	OFFSET LEFT	OFFSET RIGHT	LENGTH	REMARKS
"O" 20+42.27		X		DRIVEWAY
"O" 20+67.54	X			DRIVEWAY
"O" 28+31.00	X			LANDING AT STAIRWAY
"O" 52+58.50	X			PAD FOR TRAILHEAD
"W" 11+72.97	X			DRIVEWAY
"W" 13+33.46	X			DRIVEWAY
"W" 13+49.30		X		DRIVEWAY

UPDATED 26/04/2002 9:28

PATH: Q:\Ktn\71811A\Planset\D_Sums.dwg
Mon, 06/May/02 09:28AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SUM3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Miscellaneous Summaries

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Miscellaneous Summaries

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
D3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Eng ____ Date 10-31-06

TEMPORARY ROCK CATCHMENT BARRIER

FROM		TO					
STATION	OFFSET	STATION	OFFSET	LENGTH	HEIGHT	DESIGN LOAD	REMARKS
"O" 49+62.20	96.4 RT	"O" 50+75.00	138.0 RT	128.0'	6'	30 FT-TONS	
"O" 50+75.00	138.0 RT	"O" 52+68.50	173.7 RT	218.5'	6'	74 FT-TONS	

UPDATED 26/04/2002 9:31

NOTE:
STATION AND OFFSET ARE ONLY APPROXIMATE AND MAY BE ADJUSTED AT THE ENGINEERS APPROVAL.
TEMORARY ROCK CATCHMENT BARRIER SHALL BE INSTALLED WITHIN THE TEMPORARY CONSTRUCTION PERMIT.

MATTING

FROM		TO		
STATION	OFFSET	STATION	OFFSET	REMARKS
O 21+75	LT.	O 23+00	LT.	INSTALL AT CUT BACKSLOPE
O 31+75	LT.	O 32+75	LT.	INSTALL AT CUT BACKSLOPE

UPDATED 26/04/2002 9:32

NOTE:
OTHER AREAS MAY REQUIRE MATTING AS REQUIRED BY THE ENGINEER. STATIONING IS ONLY APPROXIMATE AND MAY REQUIRE ADJUSTMENT AS NEEDED TO BETTER FIT FIELD CONDITIONS.

TREE PLANTING

STATION	OFFSET RIGHT	TYPE	REMARKS
"O" 21+70	38.0'	RED MAPLE	DELETED PER Proj. Eng.
"O" 22+46	45.5'	GREEN MAPLE	DELETED PER Proj. Eng.
"O" 22+72	50.0'	RED MAPLE	DELETED PER Proj. Eng.
"O" 24+40	39.5'	GREEN MAPLE	DELETED PER Proj. Eng.
"O" 29+64	33.5'	RED MAPLE	
"O" 30+43	32.5'	GREEN MAPLE	
"O" 31+08	33.5'	RED MAPLE	
"O" 31+23	53.0'	GREEN MAPLE	
"O" 31+65	32.5	RED MAPLE	
"O" 31+83	63.5'	GREEN MAPLE	
"O" 31+99	45.0'	RED MAPLE	
"O" 32+29	35.0'	GREEN MAPLE	
"O" 32+39	62.0'	RED MAPLE	
"O" 32+67	34.0'	GREEN MAPLE	
"O" 32+76	54.5'	RED MAPLE	
"O" 33+05	53.5'	GREEN MAPLE	
"O" 33+25	35.5'	RED MAPLE	

UPDATED 26/04/2002 9:33

ROCK BOLT SUMMARY (SEE SHEET M8 FOR 22 ADDITIONAL ROCK BOLTS)

QUANTITY	LENGTH	LOCATION	DESIGN LOAD	REMARKS
1	20'	"O" 57+25	69 KIPS	INSTALL ROCK BOLTS AS DIRECTED
2	20'	"O" 60+50	69 KIPS	INSTALL ROCK BOLTS AS DIRECTED
2	20'	"O" 64+50	69 KIPS	INSTALL ROCK BOLTS IN OVERHANGING BLOCK.
3	20'	"O" 68+50	69 KIPS	INSTALL ROCK BOLTS AS DIRECTED
10	20'	VARIES	69 KIPS	ON-SITE TO BE USED AS NEEDED
10	30'	VARIES	69 KIPS	ON-SITE TO BE USED AS NEEDED
22	VARIES	"O" 48+50	69 KIPS	SEE SHEET M7

TOTAL = 50

NOTES:
1. LOCATION OF ROCK BOLTS ARE APPROXIMATE AND WILL BE DIRECTED BY THE ENGINEER.

BOLT PROPERTIES
MECHANICAL ANCHOR, PRE-STESSABLE, & GROUTABLE
1 3/8" DIA., 91 KSI YIELD, 124 KSI ULTIMATE

26/04/2002 9:34

NOISE BARRIER

FROM		TO				
STATION	OFFSET	STATION	OFFSET	LENGTH	HEIGHT	DESIGN LOADING
"O" 24+00	RT.	"O" 24+70	RT.	70'	8'	B1
"O" 24+70	RT.	"O" 25+75	RT.	105'	5'-4"	B1
"O" 25+75	RT.	"O" 29+00	RT.	325'	8'	B1

UPDATED 26/04/2002 9:34

NOTE:
FACE OF NOISE BARRIER SHALL BE LOCATED SO THAT IT MATCHES THE BACK OF SIDEWALK

CONCRETE BARRIER

FROM		TO				
STATION	OFFSET	STATION	OFFSET	LENGTH	TYPE	REMARKS
"A" 10+37	RT.	"A" 11+27	RT.	90'	A	FOR RETAINING WALL #2
"O" 24+75	RT.	"O" 25+75	RT.	100'	B	FOR RETAINING WALL #3
"O" 39+73	RT.	"O" 40+00	RT.	27'	B	FOR LOWER RCC WALL
"O" 40+00	RT.	"O" 48+30	RT.	830'	C	FOR LOWER RCC WALL
"O" 48+30	RT.	"O" 50+60	RT.	230'	B	FOR LOWER RCC WALL
"O" 53+73	RT.	"O" 56+98	RT.	325'	B	FOR EXISTING WALL #4
"O" 58+13	RT.	"O" 60+87	RT.	274'	B	FOR EXISTING WALL #5
"O" 66+49	RT.	"O" 68+32	RT.	183'	B	FOR EXISTING WALL #6

UPDATED 26/04/2002 9:35

NOTE:
FOR DETAILS:
TYPE A, SEE SHEET J4.
TYPE B, SEE SHEET J6.
TYPE C, SEE SHEET L8.

PATH:
Q:\Ktn\71811A\Planset\D_Sums.dwg
Mon, 06/May/02 09:28AM
PLOT: Michael Limbough
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SUM4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Miscellaneous Summaries

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./ R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Miscellaneous Summaries

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
D4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Eng _____ Date 10.31.06

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	REMARKS
"O" 21+40.4	10.3' LT.			APPROX. 20'x9' CONCRETE RETAINING WALL
"O" 21+50.7	7.4' LT.			POST
"O" 21+51.7	10.4' LT.			UTILITY BOX
"O" 21+90.0	33.3' LT			CURB INLET GRATE & MANHOLE
"W" 12+90.5	15.1" LT.	"W" 13+10.2	15.0' RT.	APPROX. 20' OF ROCKERY WALL, APPROX. 6'-6.5' HIGH.
"W" 13+10.2	15.0" LT.	"W" 13+38.2	19.2' RT.	APPROX. 28' OF CONCRETE RETAINING WALL, APPROX. 2.5' HIGH
"O" 22+12.1	7.8' RT			CURB INLET GRATE & MANHOLE
"O" 22+15.8	7.6' RT			CURB INLET GRATE & MANHOLE
"O" 22+17	10.9' LT.	"O" 22+46.9	24.7' RT.	APPROX. 59' OF CONCRETE RETAINING WALL, APPROX. 2' TO 4.5' HIGH
"O" 22+67	23' LT.	2222	3RD AVE.	PORTION OF A CONCRETE FOUNDATION AND 5' DIAMETER STEEL BOILER
"O" 22+75.0	29.0' RT			CURB INLET GRATE & MANHOLE
"A" 10+36.0	9.8" LT.	"A" 11+04.4	14.1' LT.	APPROX. 69' OF CONCRETE RETAINING WALL, APPROX. 6'-6.5' HIGH
"A" 11+23.9	5.5' LT			CURB INLET GRATE & MANHOLE
"A" 11+27.9	6.40' LT.	"A" 11+47.5	20.2' LT.	APPROX. 28' OF GUARDRAIL
"A" 11+55.7	13.2' RT			CURB INLET GRATE & MANHOLE
"O" 37+24	64.0' RT.	"O" 39+45	29.0' RT.	APPROX. 231' OF EXISTING LOGWALL, LEAVE IN PLACE UNTIL ROADWAY EMBANKMENT IS CONSTRUCTED
"O" 39+45	29.0' RT.	"O" 46+64	46.0' RT.	APPROX. 757' OF EXISTING LOGWALL, REMOVE AS CONFLICTS OCCUR WITH EMBANKMENT CONSTRUCTION
"O" 46+64	46.0' RT.	"O" 49+62	98.0' RT.	APPROX. 346' OF EXISTING LOGWALL, LEAVE IN PLACE UNTIL WHITECLIFF EXCAVATION IS COMPLETE
"O" 50+86	41.0' RT.	"O" 52+42	49.0' RT.	APPROX. 162' OF EXISTING LOGWALL, REMOVE AS CONFLICTS OCCUR WITH EMBANKMENT CONSTRUCTION
LOCATION VARIES THROUGHOUT PROJECT				CHAIN-LINK FENCE
OFFSITE DRAINAGE IMPROVEMENT AREA 1				APPROX. 42 CUBIC FEET OF CONCRETE HEADWALL (21'L x 4'H x 6"W)
OFFSITE DRAINAGE IMPROVEMENT AREA 2				APPROX. 103 CUBIC FEET OF CONCRETE HEADWALL (27.5'L x 5'H x 8"W)
OFFSITE DRAINAGE IMPROVEMENT AREA 2				4' x 8' CONCRETE VAULT
OFFSITE DRAINAGE IMPROVEMENT AREA 2				APPROX. 80 CUBIC FEET OF CONCRETE SIDEWALK AND 20 CUBIC FEET OF PONY WALL
OFFSITE DRAINAGE IMPROVEMENT AREA 3				APPROX. 11.5 CUBIC FEET OF CONCRETE HEADWALL (15.4'L x 2.3'H x 4"W)
OFFSITE DRAINAGE IMPROVEMENT AREA 4				CURB INLET GRATE & MANHOLE

UPDATED 01/05/2002 10:55

CULVERT REMOVAL SUMMARY

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	TYPE	SIZE	LENGTH	REMARKS
"W" 13+13.0	12.6' LT.	"W" 13+02.1	10.4' RT.	CMP	18"	26'	
"W" 13+22.6	11.0' RT	"W" 12+72.0	13.4' RT	CMP	24"	61'	
"WC" XX+XX.X	XX.X' XX	"WC" XX+XX.X	XX.X' XX	CMP	22" x 36"	465'	
"O" 24+02.9	62.1' RT	"W" 24+07.8	84.2' RT	CMP	36"	21'	
OFFSITE DRAINAGE IMPROVEMENT AREA 2				CMP	36"	48'	
OFFSITE DRAINAGE IMPROVEMENT AREA 2				CMP	26"x42"	30'	
					TOTAL =	573'	

UPDATED 26/04/2002 9:36

RECONSTRUCT EXISTING MANHOLE SUMMARY

**STATION	OFFSET LEFT	OFFSET RIGHT	REMARKS
~~"W" 12+51.61~~	~~7.5'~~		~~WATER MH~~ DELETED

UPDATED 26/04/2002 9:58

** STATION AND OFFSET ARE MEASURED TO CENTER OF STRUCTURE

ADJUST EXISTING MANHOLE SUMMARY

**STATION	OFFSET LEFT	OFFSET RIGHT	REMARKS
~~"O" 21+22.22~~	~~11.0'~~		~~WATER MH~~ DELETED
~~"O" 21+55.77~~		~~6.6'~~	~~WATER MH~~ DELETED
"A" 11+81.46		0.8'	STORMDRAIN MH
"W2" 10+28.08	4.9'		SEWER MH

UPDATED 26/04/2002 9:59

** STATION AND OFFSET ARE MEASURED TO CENTER OF STRUCTURE

± "W" 14 ± 12		± 2.0'	Sanitary Sewer MH
± "WC" 4 ± 85		± 130.0'	Sanitary Sewer MH
± "E" 11 ± 20	X		Sanitary Sewer MH

* REMOVAL / SECURING OF HAZARDOUS ROCKS

"O" STATION	ROCK NO.	OFFSET LEFT	OFFSET RIGHT	"O" STATION	ROCK NO.	OFFSET LEFT	OFFSET RIGHT
24+00	R-048	150'		44+93	R-020		85'
25+50	R-047	175'		45+05	R-061	191'	
27+10	R-046	150'		45+73	R-060	175'	
28+10	R-045	200'		45+73	*R-023	105'	
29+05	R-044	165'		45+57	R-063	269'	
29+45	R-043	150'		45+79	R-062	210'	
30+10	R-042	250'		46+77	R-064	281'	
30+65	R-041	260'		46+80	R-034		83'
31+15	R-040	240'		47+49	R-059	175'	
32+50	R-039	200'		47+69	R-033		93'
30+60	R-052		125'	47+22	R-065	285'	
33+60	R-038	201'		48+06	R-058	175'	
36+20	R-014		97'	48+70	R-066	242'	
35+10	R-037	214'		48+49	R-057	183'	
35+99	R-012	123'		49+23	R-056	176'	
35+93	R-036	252'		48+92	*R-029		33'
32+00	R-053		130'	49+42	*R-054	147'	
36+64	R-015		114'	49+75	R-067	253'	
36+63	R-011	192'		49+46	R-030		78'
37+55	R-010	234'		50+47	*R-031		104'
39+13	R-016		128'	50+35	R-068	226'	
40+02	R-017		67'	50+13	R-055	169'	
36+84	R-009	270'		50+80	R-069	230'	
40+82	R-008	226'		51+47	R-032		144'
41+22	R-007	260'		51+62	R-071	176'	
41+73	R-006	303'		52+84	R-072	88'	
42+29	R-018		33'	53+56	R-073	76'	
42+83	R-003	279'		53+91	R-088		172'
42+80	R-002	194'		55+81	R-077	278'	
42+66	R-005	319'		56+11	R-079	74'	
43+04	R-004	319'					

NOTE:
** HAZARDOUS ROCKS LOCATED OUTSIDE OF THE RIGHT OF WAY SHALL NOT BE REMOVED OR SECURED UNTIL THE PROJECT ENGINEER OBTAINED THE TEMPORARY CONSTRUCTION PERMIT FROM THE PROPERTY OWNER. SEE VOLUME III OF THE PHASE II GEOTECHNICAL INVESTIGATION FOR DETAILED DESCRIPTION OF HAZARDOUS ROCKS.

PATH: Q:\Ktn\71B11A\Planset\D_Sums.dwg
Mon, 06/May/02 09:28AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SUM5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Miscellaneous Summaries

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

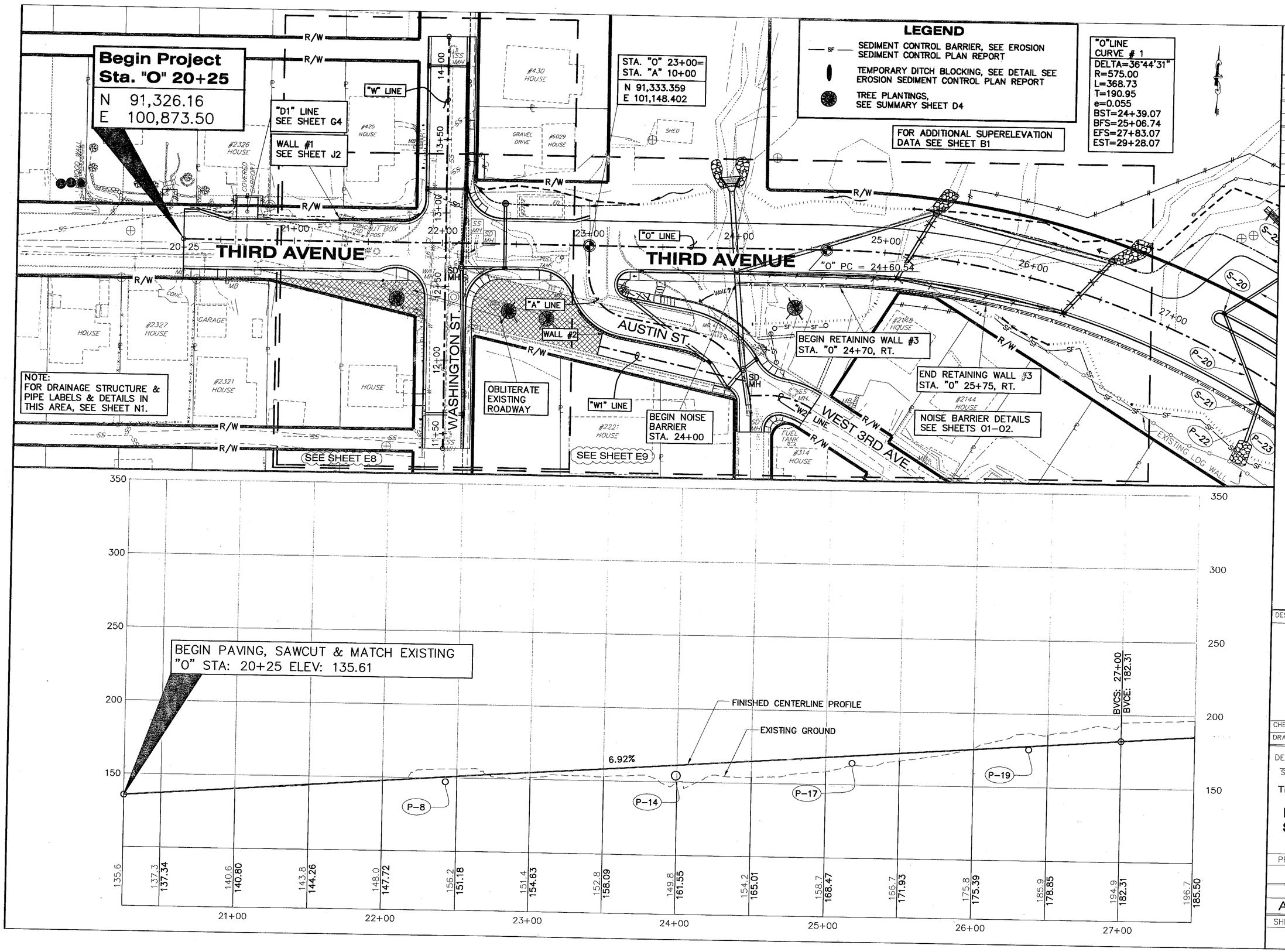
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Miscellaneous Summaries

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
D5	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Eng _____ Date 10.3.06

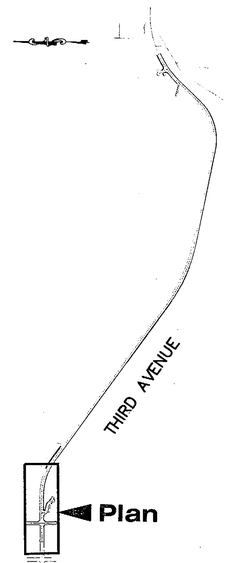


PATH:
Q:\Ktn\71811A\Planset\E1_Plan.dwg
Mon, 06/May/02 10:28AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



Layout Plan Key Map

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K./R.S./M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

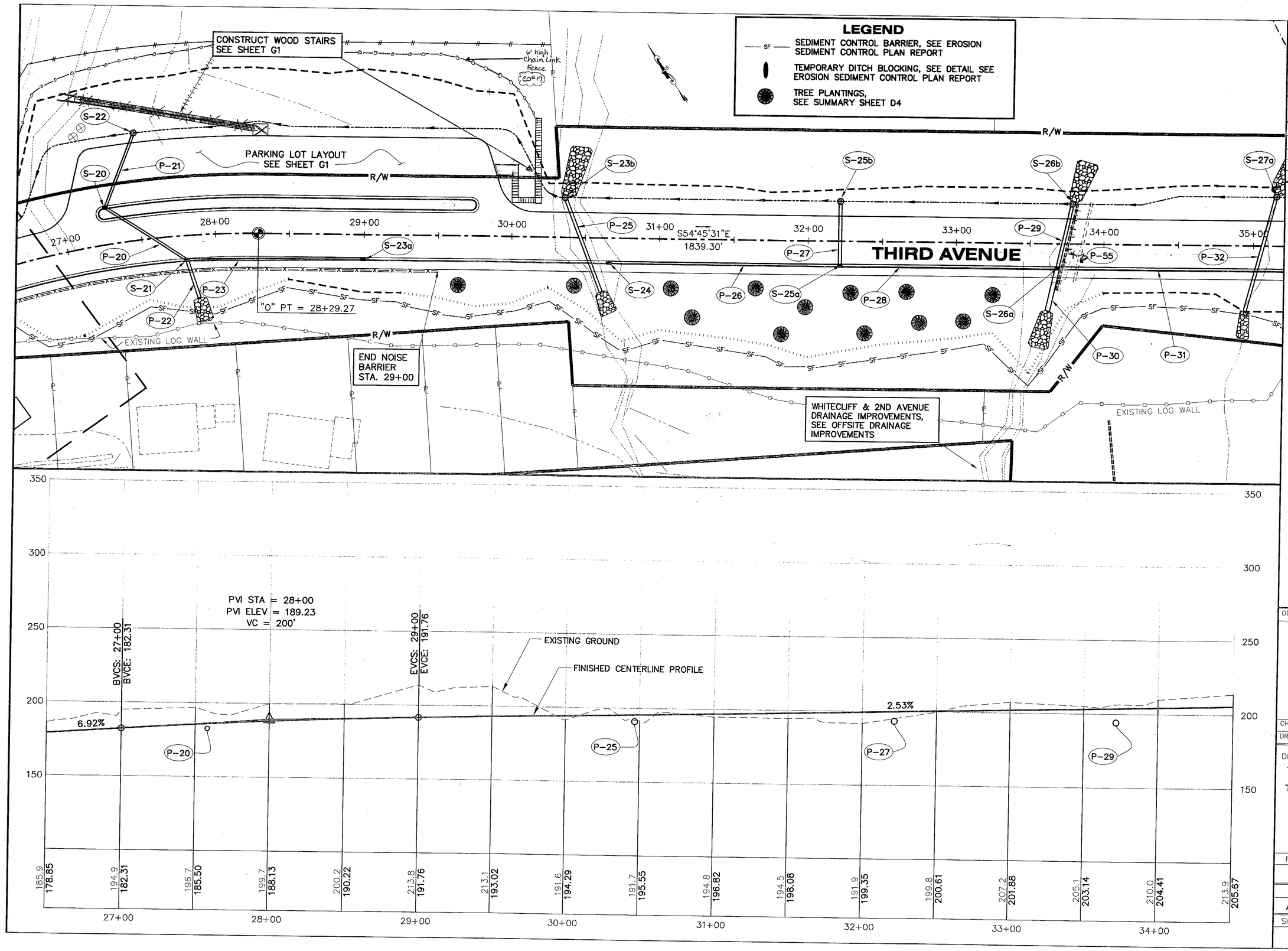
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Plan and Profile Sta "0" 20+25 to Sta. "0" 27+00

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
E1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10.31.06



LEGEND

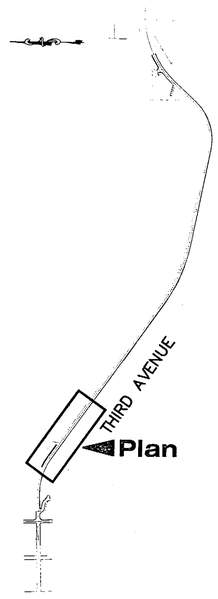
- SF — SEDIMENT CONTROL BARRIER, SEE EROSION SEDIMENT CONTROL PLAN REPORT
- TEMPORARY DITCH BLOCKING, SEE DETAIL SEE EROSION SEDIMENT CONTROL PLAN REPORT
- TREE PLANTINGS, SEE SUMMARY SHEET D4

PATH: Q:\Ktn\71811A\Planset\E1_Plan.dwg
Mon, 06/May/02 10:28AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



Layout Plan Key Map

DESIGNED BY:

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Plan and Profile Sta. "0" 27+00 to Sta."0" 35+00

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
E2	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.02

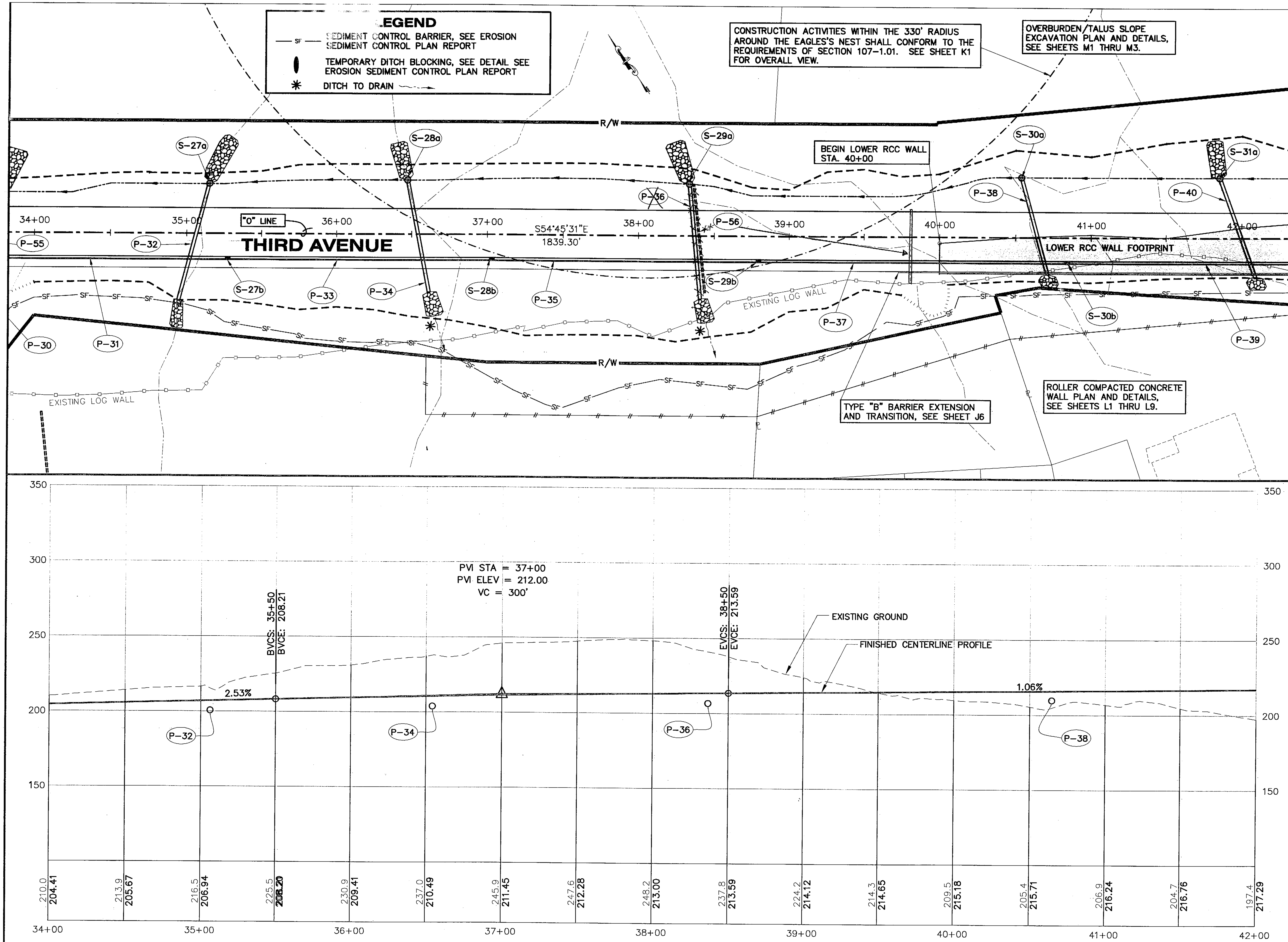
PATH:
Q:\Ktn\71811A\Planset\E1_Plan.dwg
Mon, 06/May/02 10:28AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

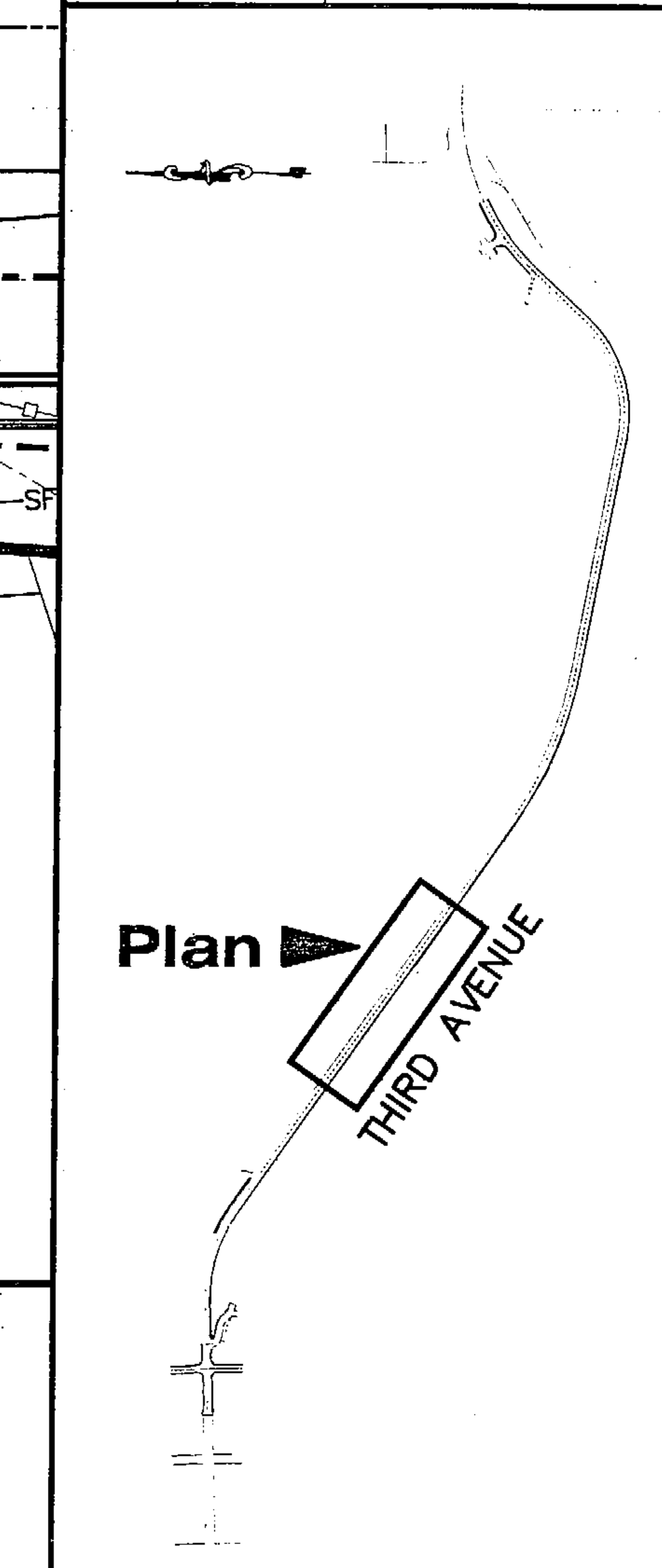
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION





Layout Plan Key Map

DESIGNED BY: C. HOWARD

CHECKED BY: T. MOORE

DRAWN BY: K.K./R.S./M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Plan and Profile
Sta. "O" 35+00 To Sta. "O" 43+00

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002

SHEET NUMBER	TOTAL SHEETS
E3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng [signature] Date 10.31.06

OVERBURDEN/TALUS SLOPE EXCAVATION PLAN AND DETAILS, SEE SHEETS M1 THRU M3.

ROLLER COMPACTED CONCRETE WALL PLAN AND DETAILS, SEE SHEETS L1 THRU L9.

WHITE CLIFF EXCAVATION PLAN AND DETAILS, SEE SHEETS M4 THRU M8.

R/W

S-32c

P-44b

S-32d

S-32

P-47

ELEPHANT DITCH

STAGE II
(WHITECLIFF EXCAVATION)

S-31a

S-32b

P-43b

S-33b

P-46

P-48

50+00

49+00

P-43a

"0" PC = 46+68.57

LOWER RCC WALL FOOTPRINT

42+00 43+00 44+00 45+00 S54°45'31"E 1839.30' 46+00 47+00 48+00

P-44a

"0" LINE

THIRD AVENUE

S-33a

S-34

S-32b

EXISTING LOG WALL

SF

R/W

S-31b

P-42

S-32a

P-39

EXISTING LOG WALL

LEGEND

SF — SEDIMENT CONTROL BARRIER, SEE EROSION SEDIMENT CONTROL PLAN REPORT

TEMPORARY DITCH BLOCKING, SEE DETAIL SEE EROSION SEDIMENT CONTROL PLAN REPORT

PERMANENT DITCH BLOCKING, SEE DETAIL ON SHEET N6.

"0" LINE
CURVE # 2
DELTA=24°30'21"
R=1500.00
L=641.56
T=325.76
*CASE 3 SUPER
e=0.035
BST=45+98.67
BFS=47+03.67
EFS=52+75.09
EST=53+90.09

END TYPE "C" BARRIER
BEGIN TYPE "B" BARRIER
STA 48+30.

LOW IMPACT ROCKFALL FENCE, SEE DETAILS, SHEET S6-S7

350 350

PVI STA = 45+50
PVI ELEV = 221.00
VC = 600'

FINISHED CENTERLINE PROFILE

EXISTING GROUND

BVCS: 42+50
BVCE: 217.82

EVCS: 48+50
EVCE: 251.00

BVCS: 49+00
BVCE: 256.00

1.06%

10.00%

P-43

P-47

300 250 200 150

204.7 216.76
197.4 217.29
194.6 217.82
191.3 218.54
186.7 219.63
181.9 221.09
184.9 222.92
186.1 225.13
183.4 227.71
186.4 230.66
185.2 233.98
190.3 237.68
199.5 241.75
206.5 246.19
222.8 251.00
244.3 256.00
285.0 260.76

42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00

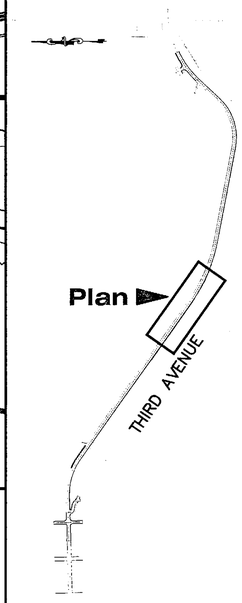
PATH:
Q:\Ktn\71811A\Planset\E1_Plan.dwg
Mon, 06/May/02 10:28AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



Layout Plan Key Map

DESIGNED BY: C. HOWARD

CHECKED BY: T. MOORE

DRAWN BY: K.K./R.S./M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Plan and Profile Sta. "0" 43+00 To Sta. "0" 51+00

PROJECT DESIGNATION NUMBER

STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
E4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06

WHITE CLIFF EXCAVATION PLAN AND DETAILS, SEE SHEETS M4 THRU M8.

SPECIAL DITCHING, SEE DITCH CHECK PLAN & PROFILE SHEET

"O" LINE
CURVE # 2
DELTA=24°30'21"
R=1500.00
L=641.56
T=325.76
*CASE 3 SUPER
e=0.035
BST=45+98.67
BFS=47+03.67
EFS=52+75.09
EST=53+90.09

*ALL OTHER CURVES USE SUPERELEVATION, CASE 1.

OVERBURDEN REMOVAL SEE SHEET S-1

ROCK BOLTING AND ROCK SCALING, SEE SHEETS S1-S2

LEGEND

- SF — SEDIMENT CONTROL BARRIER, SEE EROSION SEDIMENT CONTROL PLAN REPORT
- TEMPORARY DITCH BLOCKING, SEE DETAIL ON EROSION SEDIMENT CONTROL PLAN REPORT
- PERMANENT DITCH BLOCKING, SEE DETAIL ON SHEET N6.

R/W

P-48

S-36

STAGE II (WHITECLIFF EXCAVATION)

STAGE I (WHITECLIFF EXCAVATION)

"O" PT = 53+20.19

EXISTING ROCK CUT

50+00 51+00 52+00 "O" LINE 53+00 54+00 S79°15'51"E 903.27' 55+00 56+00 57+00

P-49

S-35

THIRD AVENUE

TYPE "B" BARRIER EXTENSION AND TRANSITION, SEE SHEET J6

S-37

EXISTING LOG WALL

P-50

S-38

EXISTING WALL #4 MODIFICATION OF EXISTING MSE WALL

S-39

TYPE "B" BARRIER EXTENSION AND TRANSITION, SEE SHEET J6

S-40

LOWER RCC WALL FOOTPRINT

UPPER RCC WALL FOOTPRINT

Deleted per CO #5

Shortened Wall per CO #5

EQUATION
"O" STA BACK: 53+10.13
"O" STA AHEAD: 53+20.19

TYPE "B" BARRIER EXTENSION AND TRANSITION, SEE SHEET J6

GORGE STREET AND JIM CREEK DRAINAGE IMPROVEMENTS SEE OFFSITE DRAINAGE IMPROVEMENTS

LOW IMPACT ROCKFALL FENCE, SEE DETAILS, SHEET S6-S7

MEDIUM IMPACT ROCKFALL FENCE, SEE DETAILS, SHEET S6-S7

ROLLER COMPACTED CONCRETE WALL PLAN AND DETAILS, SEE SHEETS L1 THRU L9.

PVI STA = 51+50
PVI ELEV = 281.00
VC = 500.00'

PVI STA = 55+30
PVI ELEV = 283.00
VC = 200'

PVI STA = 57+30
PVI ELEV = 283.46
VC = 200'

EVCS: 54+10.06
EVCE: 282.35
BVCS: 54+30
BVCE: 282.46
EVCS: 56+30
EVCE: 283.23

0.54%

EXISTING GROUND

FINISHED CENTERLINE PROFILE

EMBANKMENT CONSTRUCTION COMPLETE TO APPROXIMATE BOTTOM OF SUBBASE

EQUATION
STA BACK: 53+10.13
STA AHD: 53+20.19

400 350 300 250 200 150

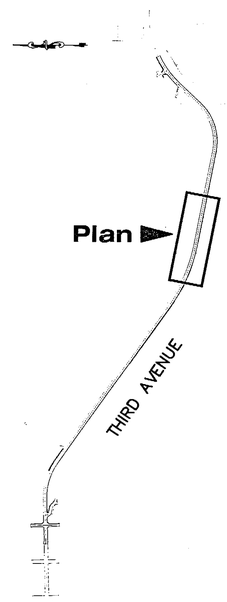
50+00	51+00	52+00	54+00	55+00	56+00	57+00
285.0 / 260.76	303.2 / 265.02	329.8 / 268.80	323.0 / 272.09	303.8 / 274.89	293.6 / 277.20	281.6 / 279.03
281.7 / 280.36	281.9 / 281.08	282.8 / 281.54	282.3 / 281.66	281.6 / 281.86	281.2 / 282.23	281.0 / 282.76
281.1 / 283.45	281.3 / 284.32	282.1 / 285.35				

PATH:
Q:\Ktn\71811A\Planset\E1_Plan.dwg
Mon, 06/May/02 10:28AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



Layout Plan Key Map

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K./R.S./M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

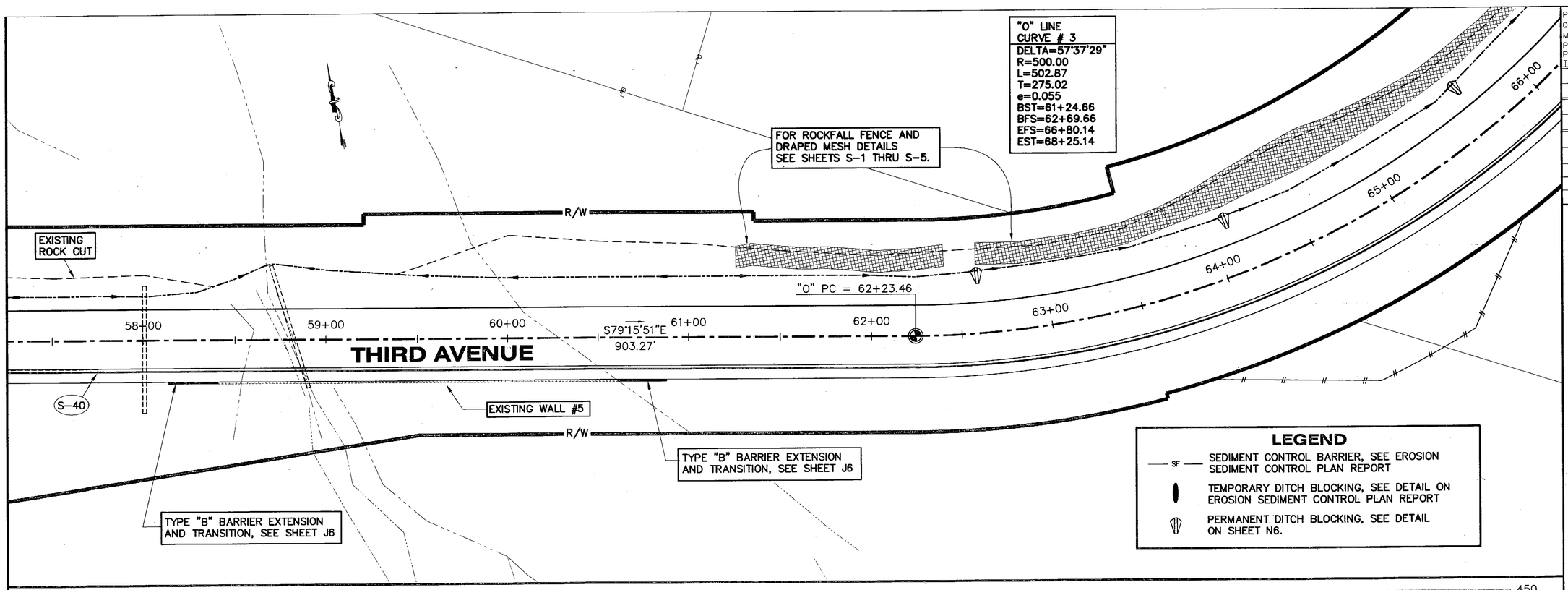
THIRD AVENUE EXTENSION
PROJECT NO. 68490

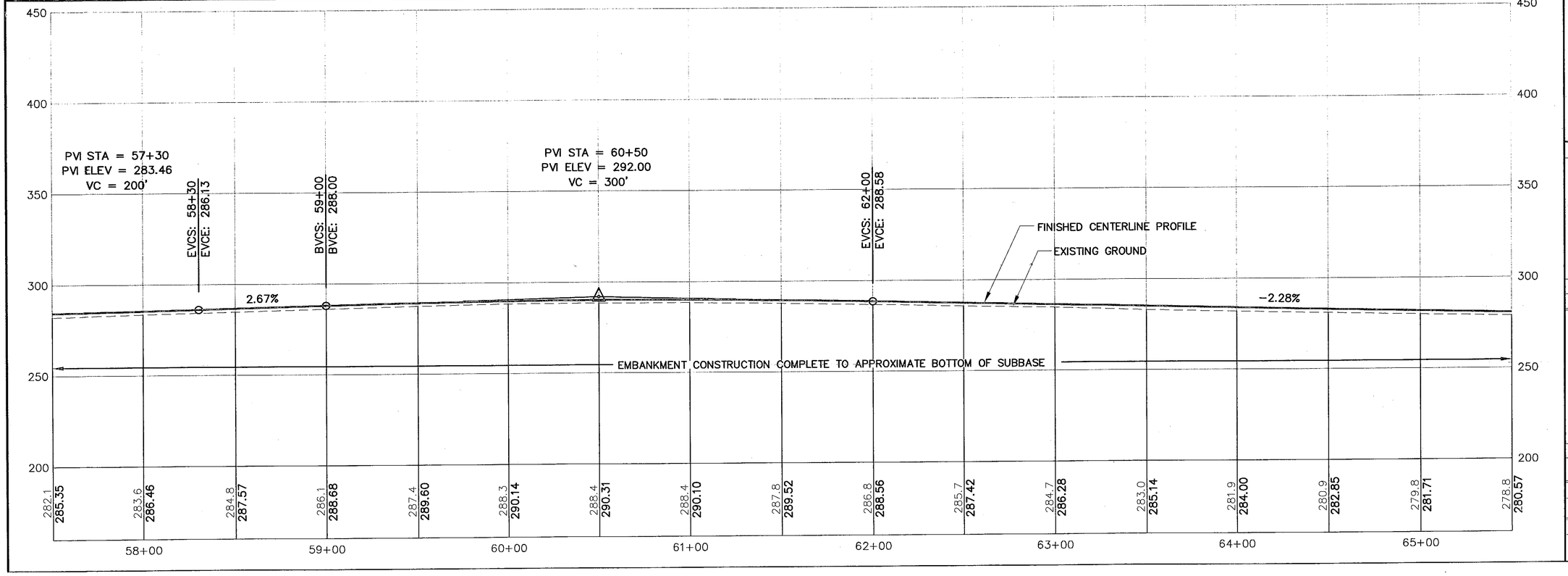
Plan and Profile Sta. "0" 51+00 To Sta. "0" 59+00

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
E5	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10.4.06





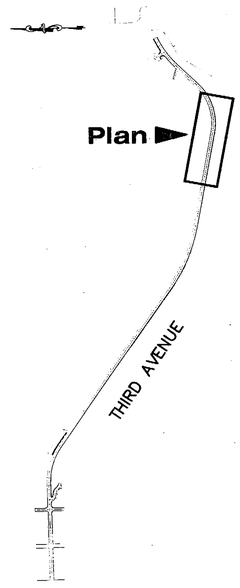
PATH:
Q:\Ktn\71811A\Planset\E1_Plan.dwg
Mon, 06/May/02 10:29AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



Layout Plan Key Map

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K./R.S./M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

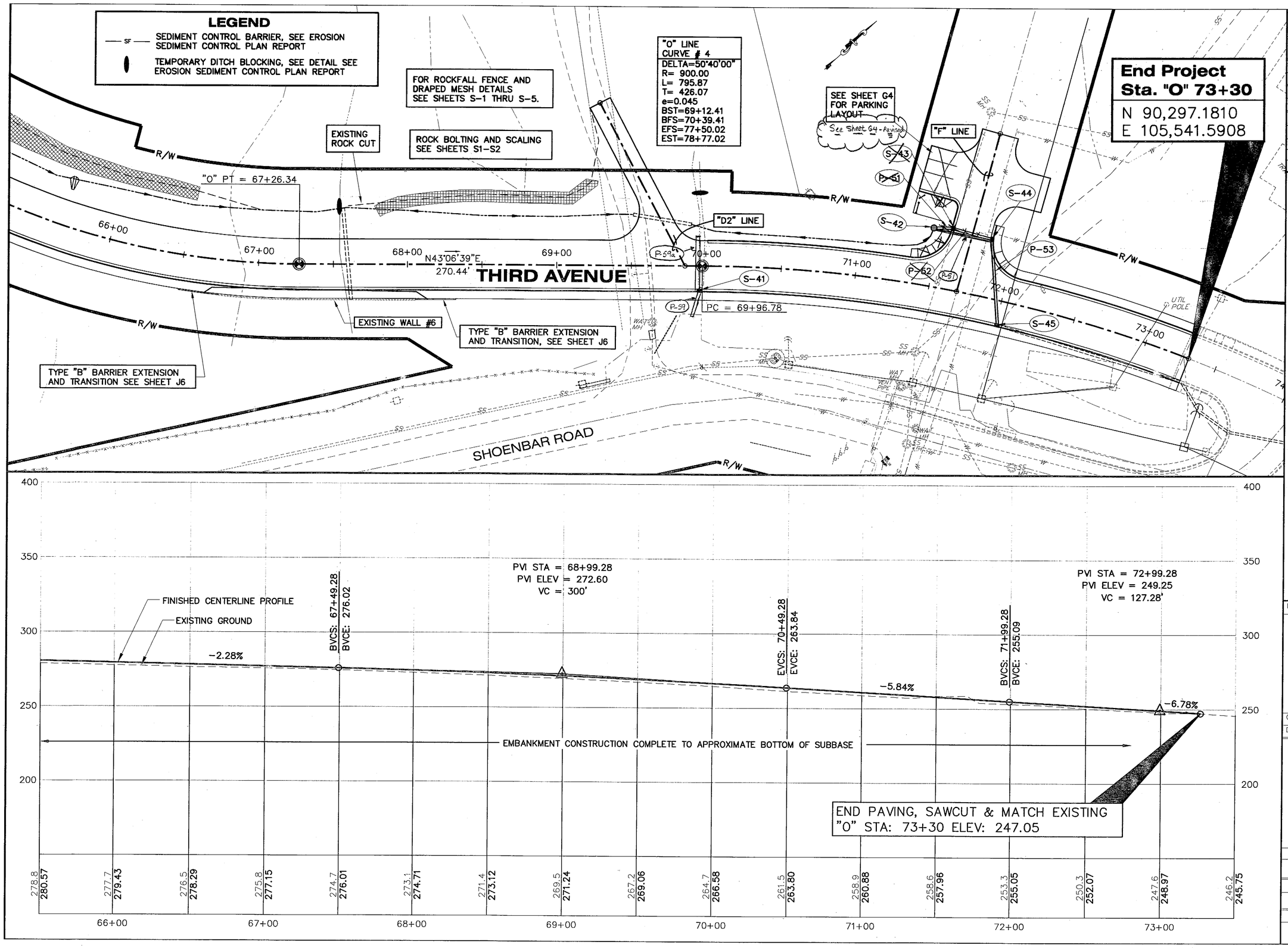
Plan and Profile Sta. "0" 59+00 To Sta. "0" 67+00

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
E6	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



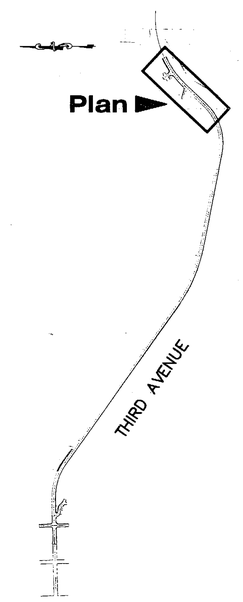
PATH:
Q:\Ktn\71811A\Planset\E1_Plan.dwg
Mon, 06/May/02 10:29AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



Layout Plan Key Map

DESIGNED BY:

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

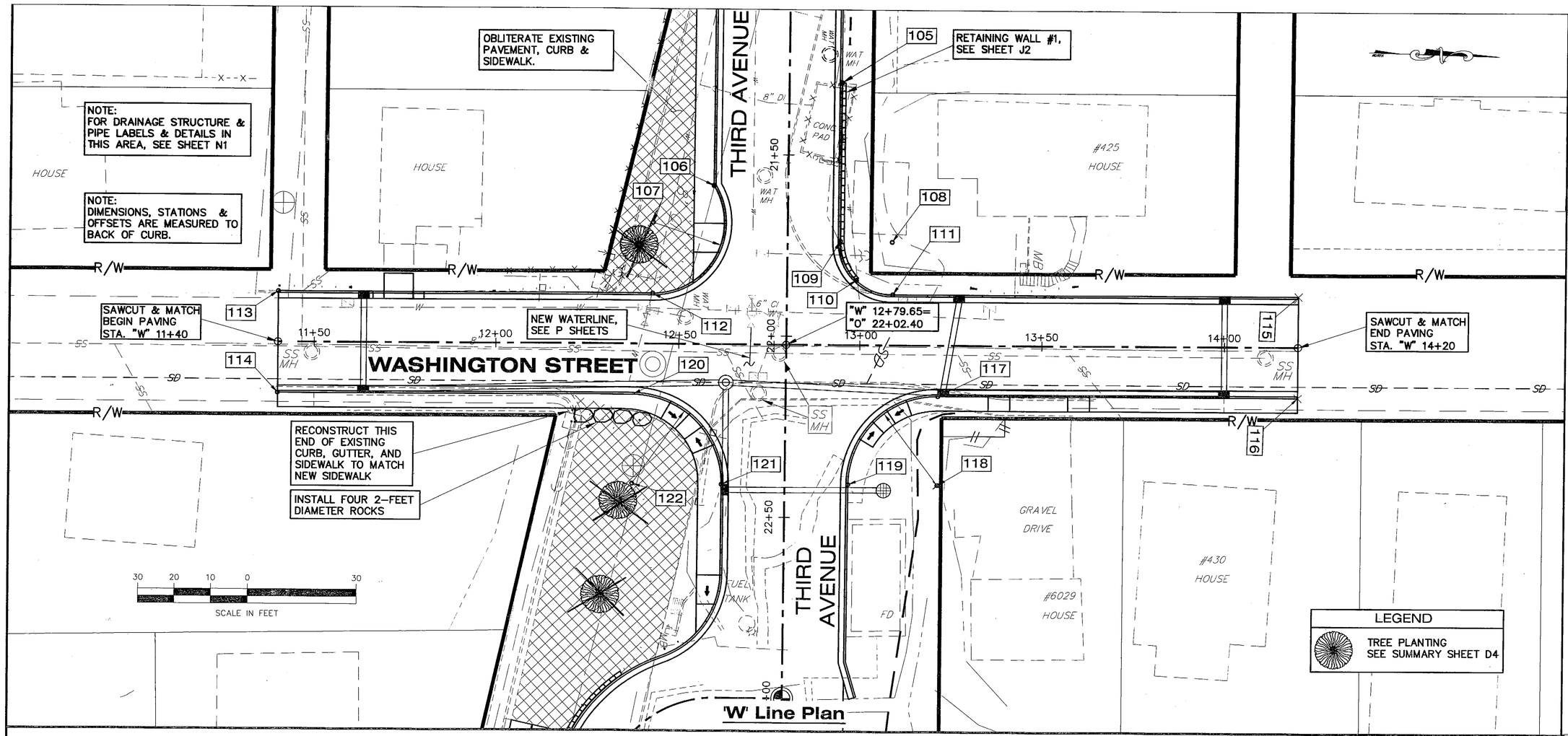
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Plan and Profile Sta. "0" 67+00 To Sta. "0" 73+30

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
E7	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

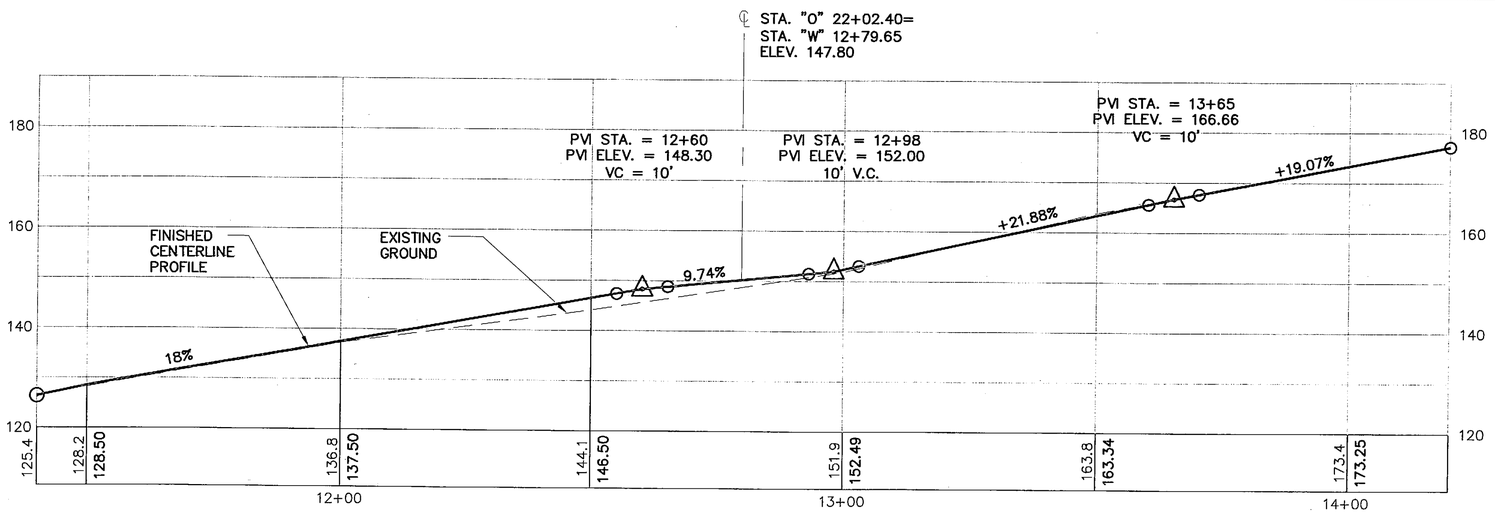
Proj. Eng. _____ Date 10-31-06



'W' Line Plan

Point	Station	Offset	Elevation	Description
101	"O" 20+25.00	RT 20.50	–	MATCH
102	"O" 20+25.00	LT 20.50	–	MATCH
103	"O" 20+35.79	LT 20.50	137.29	POT
104	"O" 20+55.79	LT 14.50	138.10	POT
105	"O" 21+29.94	LT 14.62	–	BEGIN WALL 1
106	"O" 21+58.64	RT 20.50	144.68	PC
107	"O" 21+69.13	RT 37.00	–	RP
108	"W" 13+08.76	LT 28.50	–	RP
109	"O" 21+73.79	LT 14.50	146.66	PC
110	"W" 12+98.90	LT 17.96	–	END WALL 1
111	"W" 13+08.76	LT 14.00	154.50	PT
112	"W" 12+42.77	LT 14.00	145.35	PT
113	"W" 11+40.00	LT 14.00	–	MATCH
114	"W" 11+40.00	RT 14.00	–	MATCH
115	"W" 14+20.00	LT 14.00	–	MATCH
116	"W" 14+20.00	RT 14.00	–	MATCH
117	"W" 13+21.51	RT 14.00	157.29	PC
118	"W" 13+21.51	RT 38.50	–	RP
119	"O" 22+40.75	LT 17.50	151.24	PT
120	"W" 12+37.51	RT 14.00	144.40	PC
121	"O" 22+41.05	RT 17.50	150.64	PT

✳ NOTE: ALL POINTS ARE REFERENCED TO TOP BACK OF CURB (TBC).



'W' Line Profile

PATH: O:\Ktn\71811A\Planset\E8_W-Line.dwg
Mon, 06/May/02 10:31AM Michael Limbough
PLOT: PSPACE 1=1(F) OR MSPACE 1=15(F)

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Washington Street Plan & Profile

DESIGNED BY: C. HOWARD, J. OSBURN

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

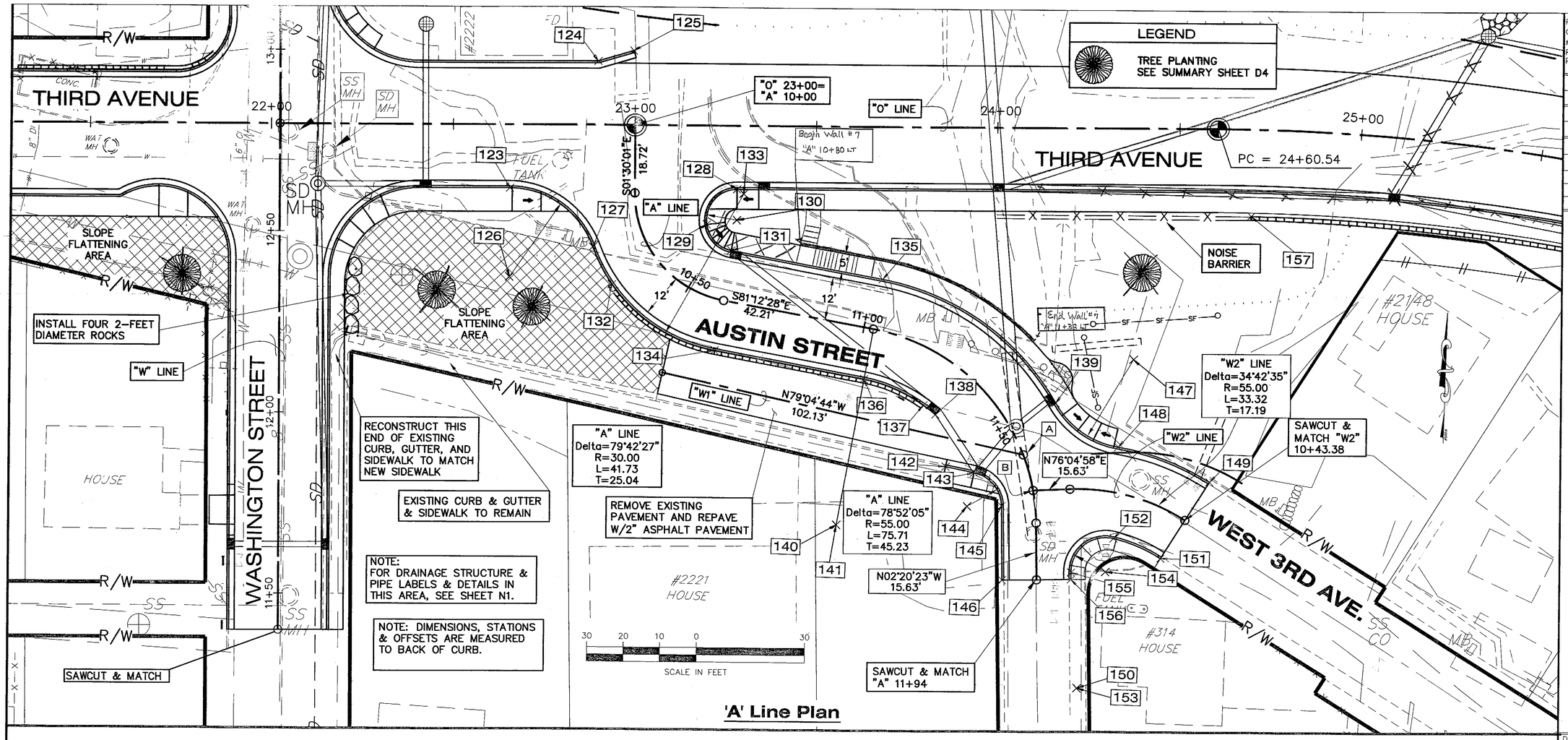
Washington Street Plan & Profile

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
E8	146

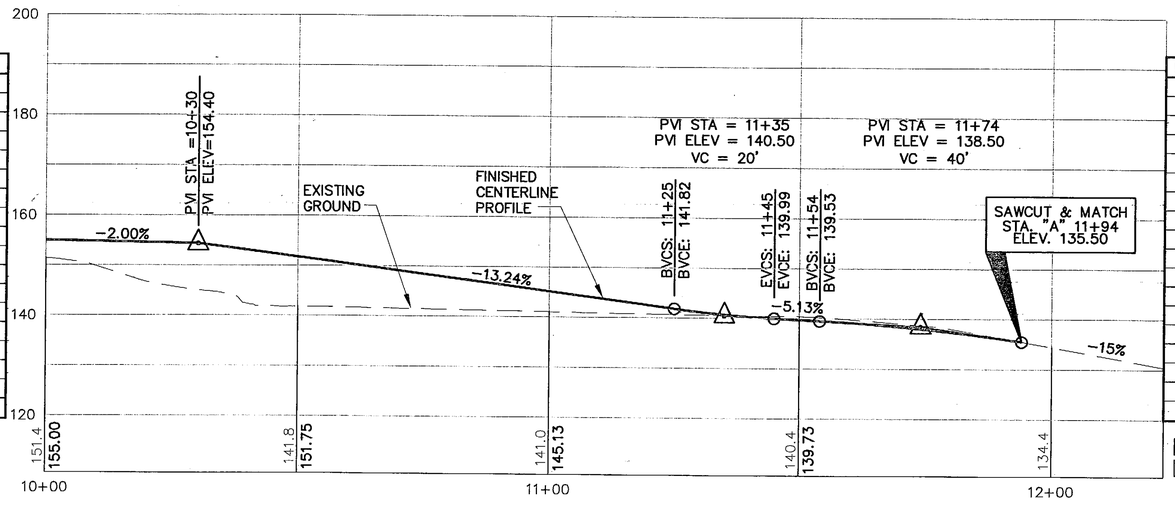
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



'A' Line Plan

Point	Station	Offset	Elevation	Description
123	"O" 22+65.58	RT 17.50	152.43	PC
124	"O" 22+89.71	LT 17.50	154.62	ANGLE PT.
125	"O" 22+99.43	LT 20.41	155.36	POT
126	"A" 10+29.12	RT 38.50	–	RP
127	"A" 10+29.12	RT 14.00	154.57	PRC
128	"O" 23+28.13	RT 17.50	156.66	PC
129	"A" 10+39.43	LT 16.66	154.49	BEGIN STAIRS
130	"A" 10+58.32	LT 22.48	–	RP
131	"A" 10+59.45	LT 13.99	150.65	PT
132	"A" 10+37.01	RT 14.10	–	BEGIN WALL 2
133	"A" 10+18.72	LT 30.00	–	RP
134	"A" 10+60.45	RT 14.00	150.52	PT
135	"A" 11+02.66	LT 14.00	144.93	PC
136	"A" 11+02.66	RT 14.00	144.93	PC
137	"A" 11+27.01	RT 14.10	–	END WALL 2
138	"A" 11+32.67	RT 14.00	141.08	PT
139	"A" 11+50.83	LT 14.00	139.84	PRC
140	"A" 11+02.66	RT 55.00	–	RP



Point	Station	Offset	Elevation	Description
141	"A" 11+02.66	RT 55.00	–	RP
142	"W1" 10+20.01	RT 7.88	–	MATCH
143	"W1" 10+12.01	RT 7.88	139.69	PC
144	"A" 11+71.06	RT 18.60	–	RP
145	"A" 11+72.57	RT 9.17	138.39	PT
146	"A" 11+94.00	RT 9.42	–	MATCH
147	"A" 11+50.83	LT 38.50	–	RP
148	"W2" 10+21.31	LT 12.50	139.62	PRC
149	"A" 11+72.58	LT 48.29	–	MATCH
150	"A" 12+24.05	LT 10.82	–	RP
151	"A" 11+88.46	LT 34.05	–	MATCH
152	"W2" 10+25.21	RT 12.50	139.78	PCC
153	"A" 12+24.05	LT 10.82	–	RP
154	"A" 11+92.06	LT 18.92	–	RP
155	"A" 11+92.06	LT 9.42	136.02	PC
156	"A" 11+94.00	LT 9.42	–	MATCH
157	"O" 24+70.28	RT 24.00	–	BEGIN WALL 3
158	"O" 25+74.87	RT 24.00	–	END WALL 3

[A] "W1" 10+00 = "A" 11+59.05
[B] "W2" 10+00 = "A" 11+69.30

✳ NOTE: ALL POINTS ARE REFERENCED TO TOP BACK OF CURB (TBC).

'A' Line Profile

PATH: Q:\Ktn\71811A\Planset\E9_A-W1-W2Lines.dwg
Mon, 06/May/02 10:33AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=15(F)

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Austin Street & West 3rd Avenue Plan & Profile

DESIGNED BY: C. HOWARD, J. OSBURN

STATE OF ALASKA 49th — Tracy W. Moore CE-4932 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

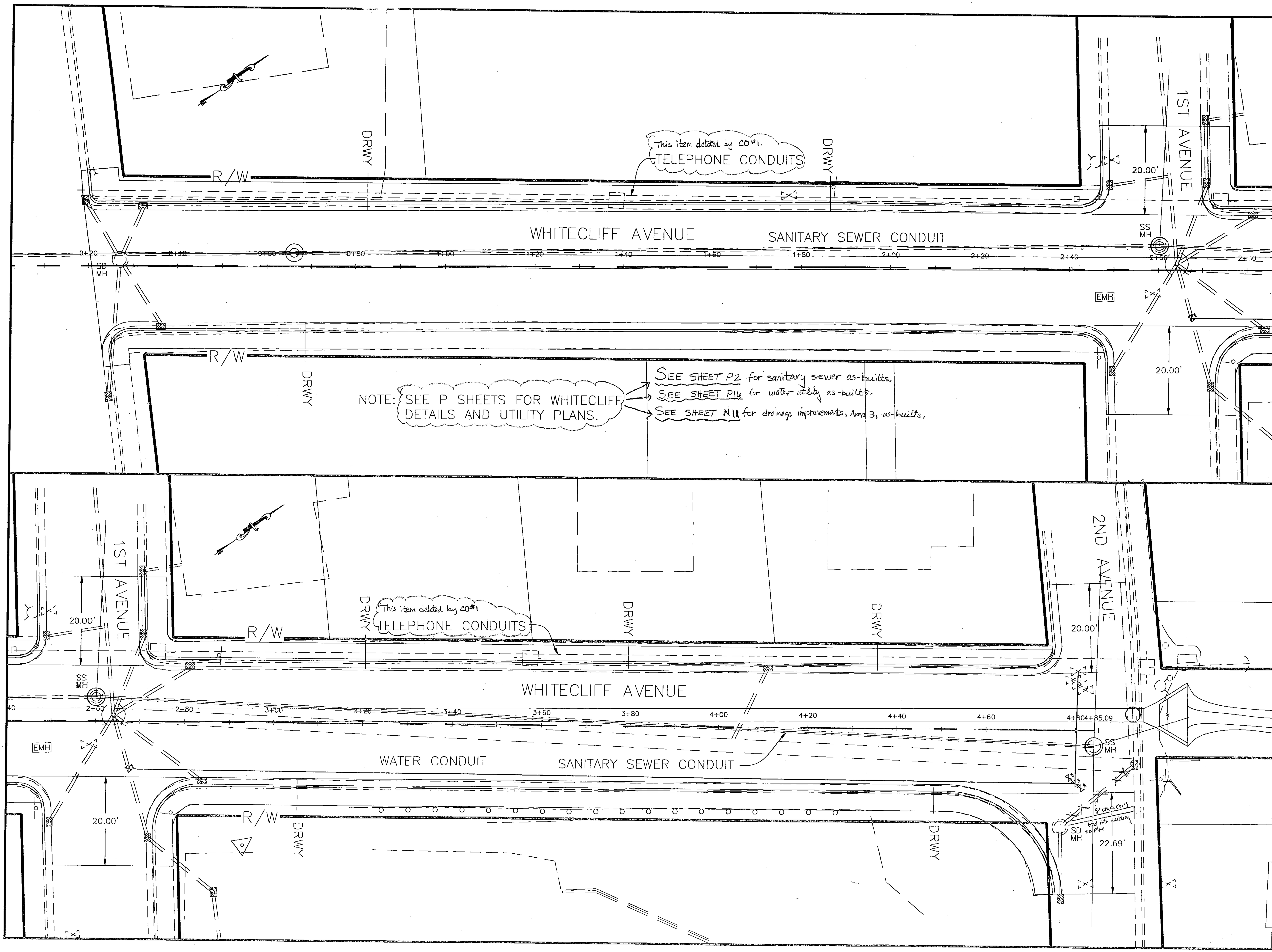
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Austin Street & West 3rd Avenue Plan & Profile

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
E9	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-3-06



PATH:
Q:\Ktn\71811A\Planset\E10_WhiteCliff.dwg
Mon, 06/May/02 09:30AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=10(F)
TAB: PLAN

ADDENDUM NUMBER

ATTACHMENT NUMBER

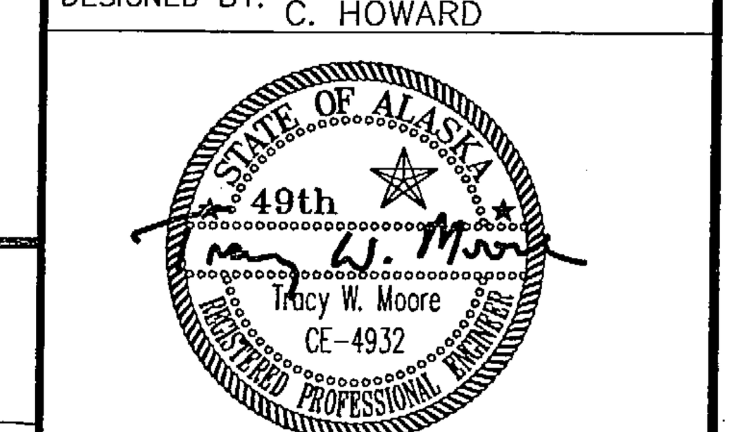
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Whitecliff Avenue Plan

DESIGNED BY: C. HOWARD



CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Whitecliff Avenue Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
E10	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. [signature] Date 10-31-06

LEGEND

R-040 BA2 — HAZARDOUS ROCK (LOCATION) (RATING)

T-012 — HAZARDOUS TREE

HAZARDOUS TREE LINE

DOT&PF TEST HOLE

GENERAL NOTES

1. THE CONTOUR INTERVAL SHOWN IS 5 FEET.
2. TOPOGRAPHIC AND ALIGNMENT INFORMATION WERE TAKEN FROM DOT&PF PRELIMINARY DRAWINGS AND ARE SUBJECT TO CHANGE DURING FINAL DESIGN.
3. LOCATIONS SHOWN FOR HAZARDOUS ROCKS AND TREES ARE BASED ON CLOTH TAPE AND COMPASS MESUREMENTS AND SHOULD BE CONSIDERED AS APPROXIMATE ONLY.
4. HAZARDOUS ROCK AND HAZARDOUS TREE INFORMATION IS BASED ON A FIELD INVESTIGATION PERFORMED BY R&M CONSULTANTS, INC. DURING JULY 1997.

GRAPHIC SCALE (IN FEET)
30 0 15 30 60 120

N

R-047 AB2

R-048 DA15

R-046 AC5

THIRD AVENUE EXTENSION

SECURED T-009 REMOVED

R-050 BD<0.5

R-051 CD<0.5

SECURED T-010 REMOVED

R-049 AB11

EXISTING LOG WALL

APPROX. LOCATION NODWELL TRAIL

T-011

T-012

PT = 28+29.27

20+25 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00

N88°29'59"E 435.54'

THIRD AVENUE

WASHINGTON STREET

AUSTIN STREET

2ND AVE

PATH: Q:\Ktn\71811A\Planset\F_Hazards.dwg
Mon, 06/May/02 10:35AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PLAN1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Hazardous Trees & Rocks

DESIGNED BY: C. HOWARD

STATE OF ALASKA — 49th — Tracy W. Moore CE-4932 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: T.M. / R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Hazardous Trees & Rocks

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.9.06

GENERAL NOTES

1. THE CONTOUR INTERVAL SHOWN IS 5 FEET.
2. TOPOGRAPHIC AND ALIGNMENT INFORMATION WERE TAKEN FROM DOT&PF PRELIMINARY DRAWINGS AND ARE SUBJECT TO CHANGE DURING FINAL DESIGN.
3. LOCATIONS SHOWN FOR HAZARDOUS ROCKS AND TREES ARE BASED ON CLOTH TAPE AND COMPASS MESUREMENTS AND SHOULD BE CONSIDERED AS APPROXIMATE ONLY.
4. HAZARDOUS ROCK AND HAZARDOUS TREE INFORMATION IS BASED ON A FIELD INVESTIGATION PERFORMED BY R&M CONSULTANTS, INC. DURING JULY 1997.

LEGEND

R-040 BA2 — HAZARDOUS ROCK (LOCATION) (RATING)

T-012 — HAZARDOUS TREE

HAZARDOUS TREE LINE

DOT&PF TEST HOLE

GRAPHIC SCALE (IN FEET)
30 0 15 30 60 120

R-045 AD1
R-044 DB2
R-043 CB1
R-042 AA1
R-041 CA2
R-040 BA2
R-039 CA<0.5
R-038 CA1
R-037 CA2
R-036 AA<0.5
R-012 AB5
R-013 CC<0.5
R-014 DC1
R-052 AD<0.5
R-053 AB<0.5
T-012
T-001

28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00

THIRD AVENUE EXTENSION

PT = 28+29.27

EXISTING LOG WALL

NIC

PATH:
Q:\Ktn\71811A\Planset\F_Hazards.dwg
Mon, 06/May/02 10:35AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PLAN2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Hazardous Trees & Rocks

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M. / R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Hazardous Trees & Rocks

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F2	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06

LEGEND

R-040 BA2 — HAZARDOUS ROCK (LOCATION) (RATING)

T-012 — HAZARDOUS TREE

HAZARDOUS TREE LINE

DOT&PF TEST HOLE

GENERAL NOTES

1. THE CONTOUR INTERVAL SHOWN IS 5 FEET.
2. TOPOGRAPHIC AND ALIGNMENT INFORMATION WERE TAKEN FROM DOT&PF PRELIMINARY DRAWINGS AND ARE SUBJECT TO CHANGE DURING FINAL DESIGN.
3. LOCATIONS SHOWN FOR HAZARDOUS ROCKS AND TREES ARE BASED ON CLOTH TAPE AND COMPASS MESUREMENTS AND SHOULD BE CONSIDERED AS APPROXIMATE ONLY.
4. HAZARDOUS ROCK AND HAZARDOUS TREE INFORMATION IS BASED ON A FIELD INVESTIGATION PERFORMED BY R&M CONSULTANTS, INC. DURING JULY 1997.

N

R-036 AA<0.5

R-010 CA<0.5

R-009 DA3

R-011 CA<0.5

R-012 AB5

R-013 CC<0.5

R-035 AA1

R-001 CC<0.5

R-002 AD<0.5

R-008 CA1

R-007 DB1

R-006 AB1

R-005 AB2

R-004 BD1

R-003 DD1

36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00

S54°45'31"E 1839.30'

THIRD AVENUE EXTENSION

EXISTING LOG WALL

EXISTING LOG WALL

SECURED

T-005

REMOVED

R-018 AB1

R-019 AA<0.5

R-017 AA2

R-016 AC2

T-003

R-014 DC1

R-015 CB1

T-002

NIC

NIC

GRAPHIC SCALE (IN FEET)

30 0 15 30 60 120

PATH: Q:\Ktn\71811A\Planset\F_Hazards.dwg
Mon, 06/May/02 10:35AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PLAN3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Hazardous Trees & Rocks

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: T.M. / R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Hazardous Trees & Rocks

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06

GENERAL NOTES

1. THE CONTOUR INTERVAL SHOWN IS 5 FEET.
2. TOPOGRAPHIC AND ALIGNMENT INFORMATION WERE TAKEN FROM DOT&PF PRELIMINARY DRAWINGS AND ARE SUBJECT TO CHANGE DURING FINAL DESIGN.
3. LOCATIONS SHOWN FOR HAZARDOUS ROCKS AND TREES ARE BASED ON CLOTH TAPE AND COMPASS MESUREMENTS AND SHOULD BE CONSIDERED AS APPROXIMATE ONLY.
4. HAZARDOUS ROCK AND HAZARDOUS TREE INFORMATION IS BASED ON A FIELD INVESTIGATION PERFORMED BY R&M CONSULTANTS, INC. DURING JULY 1997.

LEGEND

R-040 BA2 — HAZARDOUS ROCK (LOCATION) (RATING)

T-012 — HAZARDOUS TREE

HAZARDOUS TREE LINE

DOT&PF TEST HOLE

GRAPHIC SCALE (IN FEET)
30 0 15 30 60 120

BEDROCK EXPOSURES
R-064 DD<0.5
R-065 DD1
R-063 DC3
TALUS AND DERIS FANS
R-062 DC5
R-061 CC28
R-060 DD<0.5
TALUS AND DEBRIS FANS
R-066 DD2
R-067 DC36
R-069 DC2
R-068 BC2
R-070 DD13
R-071 DD7
BEDROCK EXPOSURES
R-059 DD2
R-058 DC10
R-057 DC11
R-056 AC4
R-055 AC243
R-054 AA65
R-072 DD3
BEDROCK EXPOSURE "WHITE CLIFF"
R-021 AD280
R-022 AC13
R-023 BC27
R-024 DC47
R-025 DC7
R-026 DC39
ROCK BLOCK STA. 48+50
R-054
PC = 46+68.57
45+00
46+00
47+00
48+00
49+00
50+00
51+00
52+00
R-027 DC1
EXISTING LOG WALL
R-028 DC2
R-029 DD10
R-019 AA<0.5
R-020 AD11
T-008
R-034 CD44
R-033 DD<0.5
EXISTING LOG WALL
R-030 DD10
R-031 DD9
T-006
T-007
R-089 DD4
R-032 DD71

PATH: Q:\Ktn\71811A\Planset\F_Hazards.dwg
Mon, 06/May/02 10:35AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PLAN4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Hazardous Trees & Rocks

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M. / R.S.

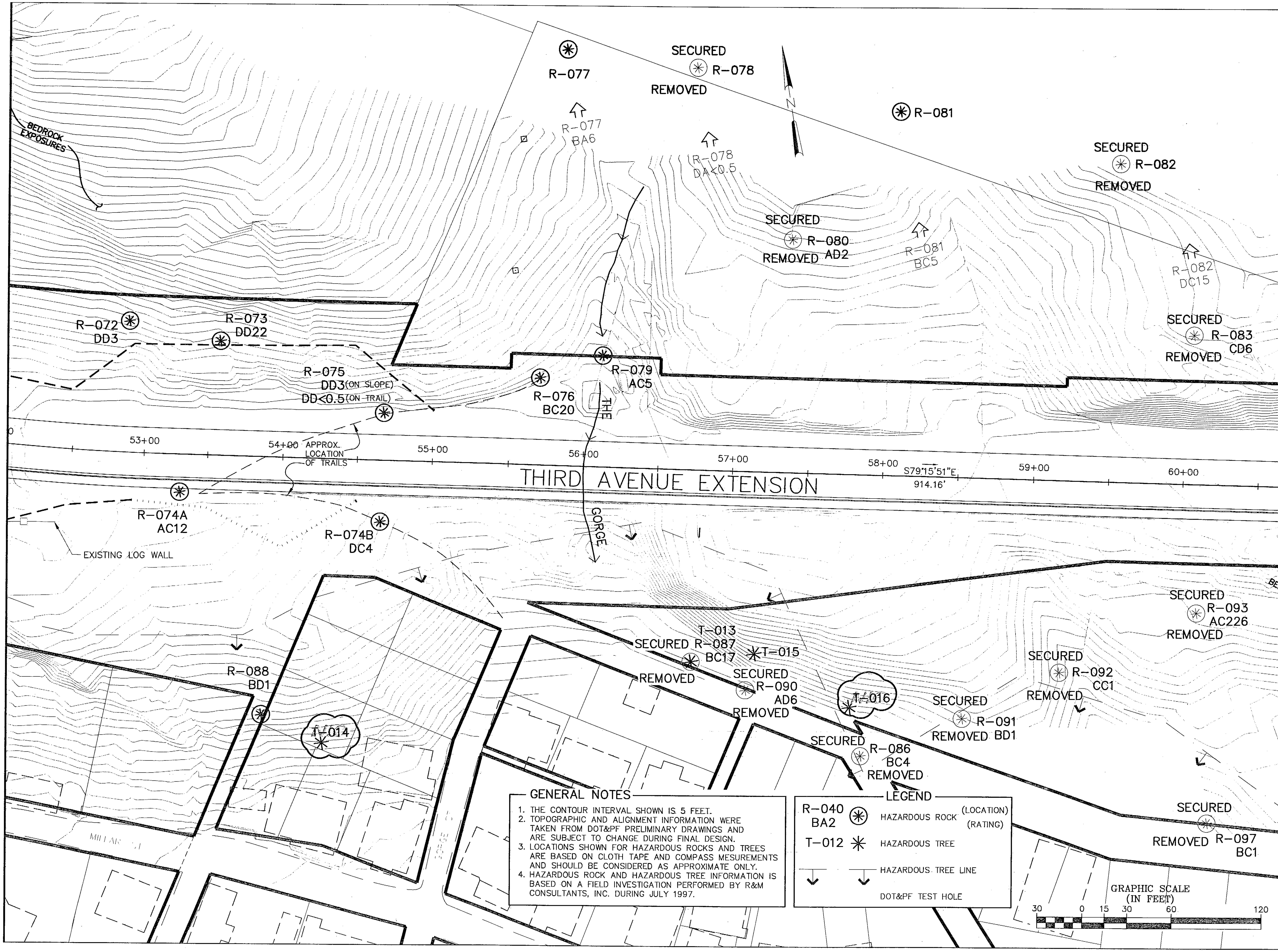
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Hazardous Trees & Rocks

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Engr _____ Date 10-31-02



GENERAL NOTES

1. THE CONTOUR INTERVAL SHOWN IS 5 FEET.
2. TOPOGRAPHIC AND ALIGNMENT INFORMATION WERE TAKEN FROM DOT&PF PRELIMINARY DRAWINGS AND ARE SUBJECT TO CHANGE DURING FINAL DESIGN.
3. LOCATIONS SHOWN FOR HAZARDOUS ROCKS AND TREES ARE BASED ON CLOTH TAPE AND COMPASS MESUREMENTS AND SHOULD BE CONSIDERED AS APPROXIMATE ONLY.
4. HAZARDOUS ROCK AND HAZARDOUS TREE INFORMATION IS BASED ON A FIELD INVESTIGATION PERFORMED BY R&M CONSULTANTS, INC. DURING JULY 1997.

LEGEND

R-040 (LOCATION) BA2 (RATING) — HAZARDOUS ROCK
T-012 — HAZARDOUS TREE
HAZARDOUS TREE LINE
DOT&PF TEST HOLE

PATH:
Q:\Ktn\71811A\Planset\F_Hazards.dwg
Mon, 06/May/02 10:35AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PLAN5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Hazardous Trees & Rocks

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M. / R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

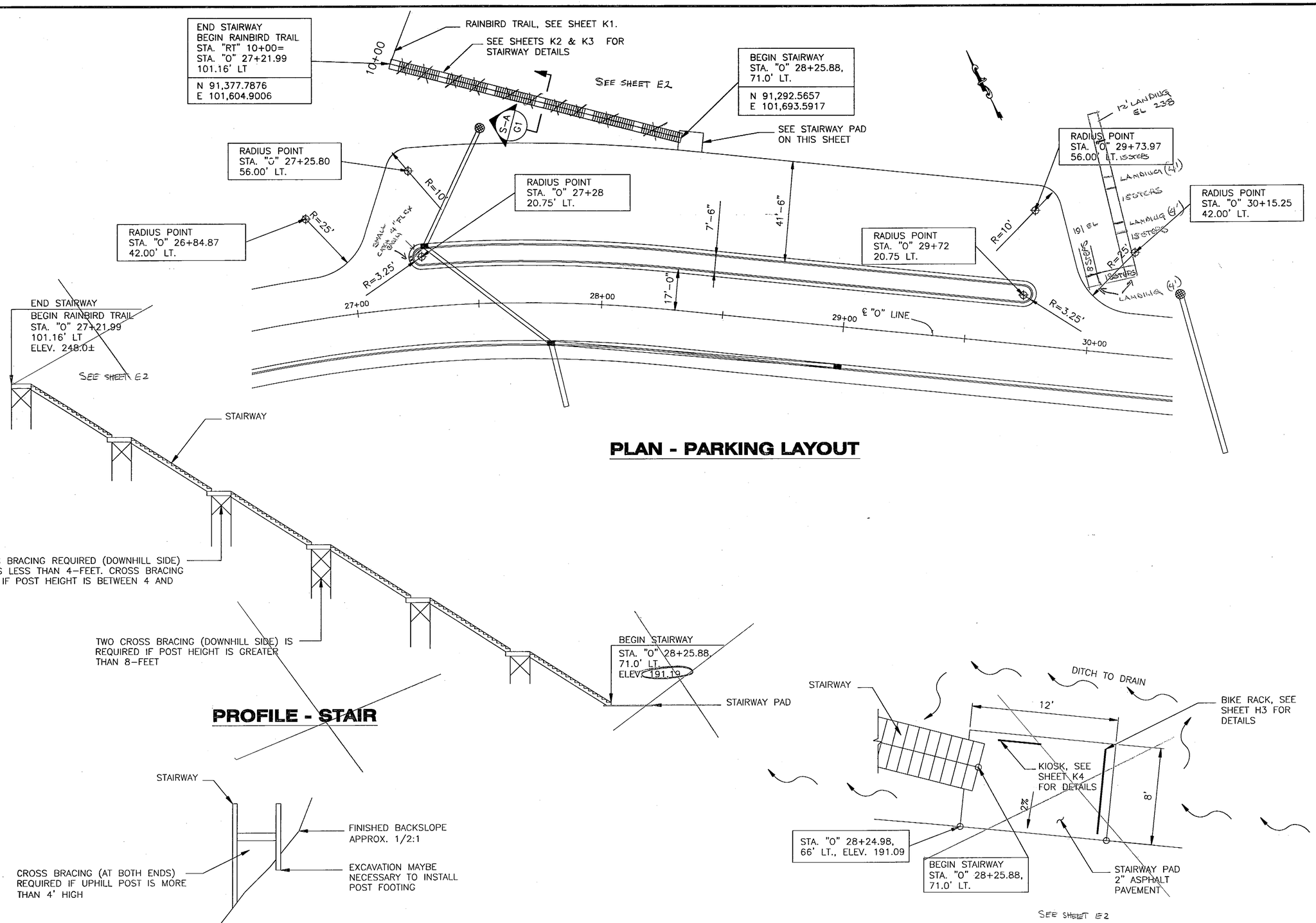
Hazardous Trees & Rocks

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
F5	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. [signature] Date 03.06



PLAN - PARKING LAYOUT

PROFILE - STAIR

SECTION A

STAIRWAY PAD DETAIL

PATH:
Q:\Ktn\71811A\Planset\G_ParkingLot.dwg
Mon, 06/May/02 09:32AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PARKING LOT

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Parking Lot Plan & Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

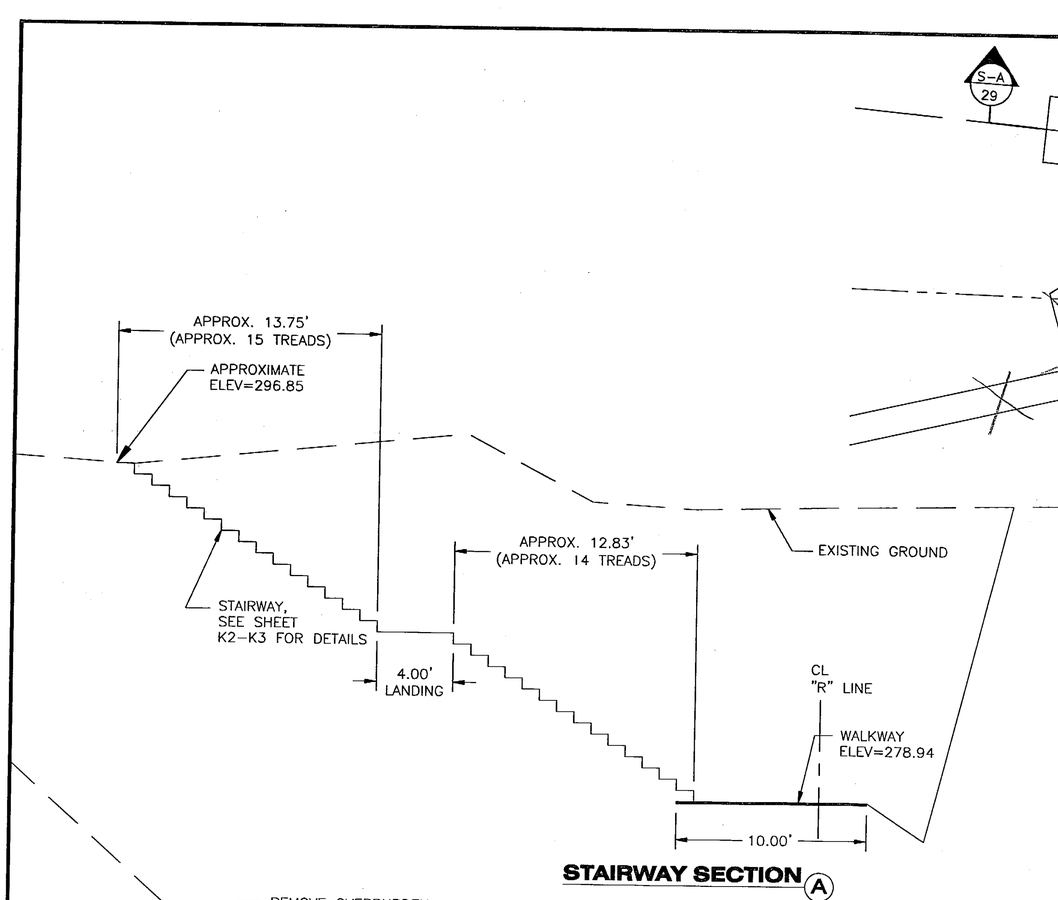
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Parking Lot Plan & Details

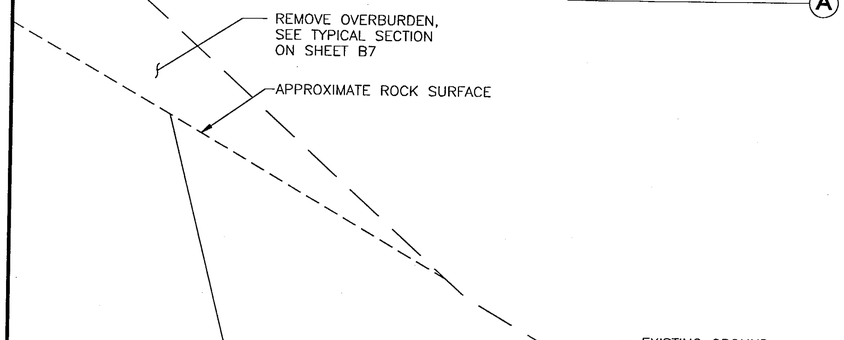
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

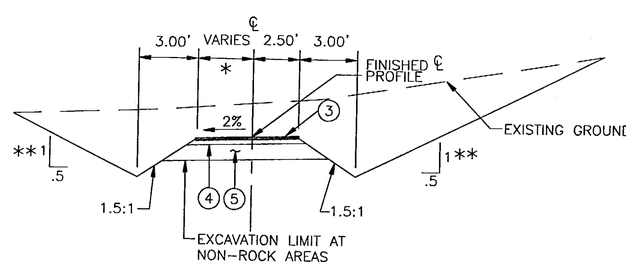
Proj. Engr _____ Date 03.1.06



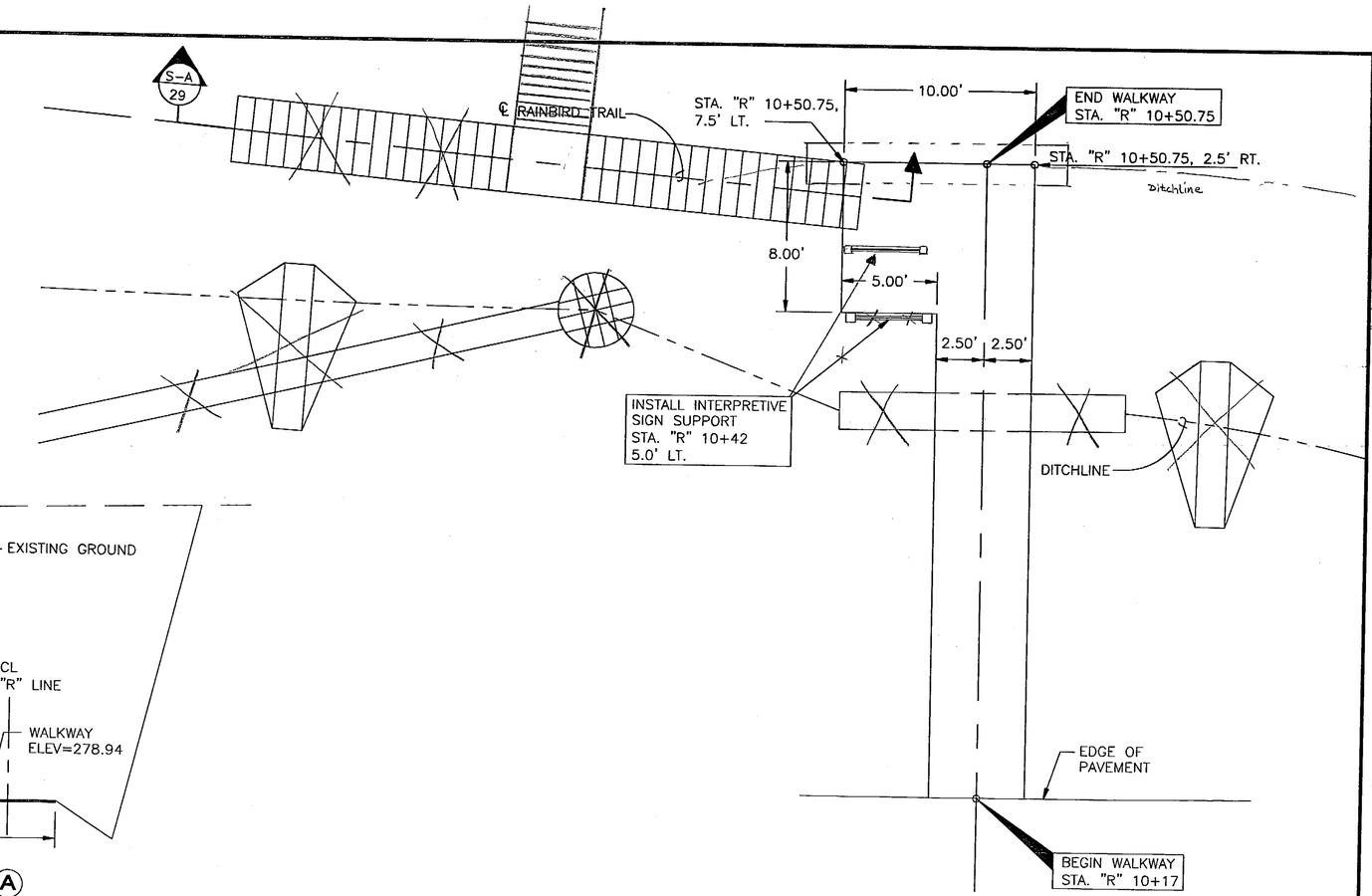
STAIRWAY SECTION (A)



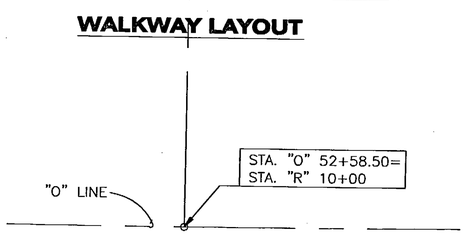
WALKWAY PROFILE



TYPICAL SECTION



WALKWAY LAYOUT



* 2.50' – STA. 10+17 TO STA. 10+42.75
7.50' – STA. 10+42.75 TO STA. 10+50.75

** 1.5:1 SLOPE IN NON-ROCK AREAS

LEGEND

(3) 1.5" ASPHALT CONCRETE PAVEMENT FOR SIDEWALK

(4) 4" CRUSHED AGGREGATE

(5) 12" SUBBASE, GRADING "B"

PATH:
Q:\Ktn\71811A\Planset\G_ParkingLot.dwg
Mon, 06/May/02 09:32AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: R-LINE-WLK+STAIRS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

"R" Line Walkway & Stairway Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

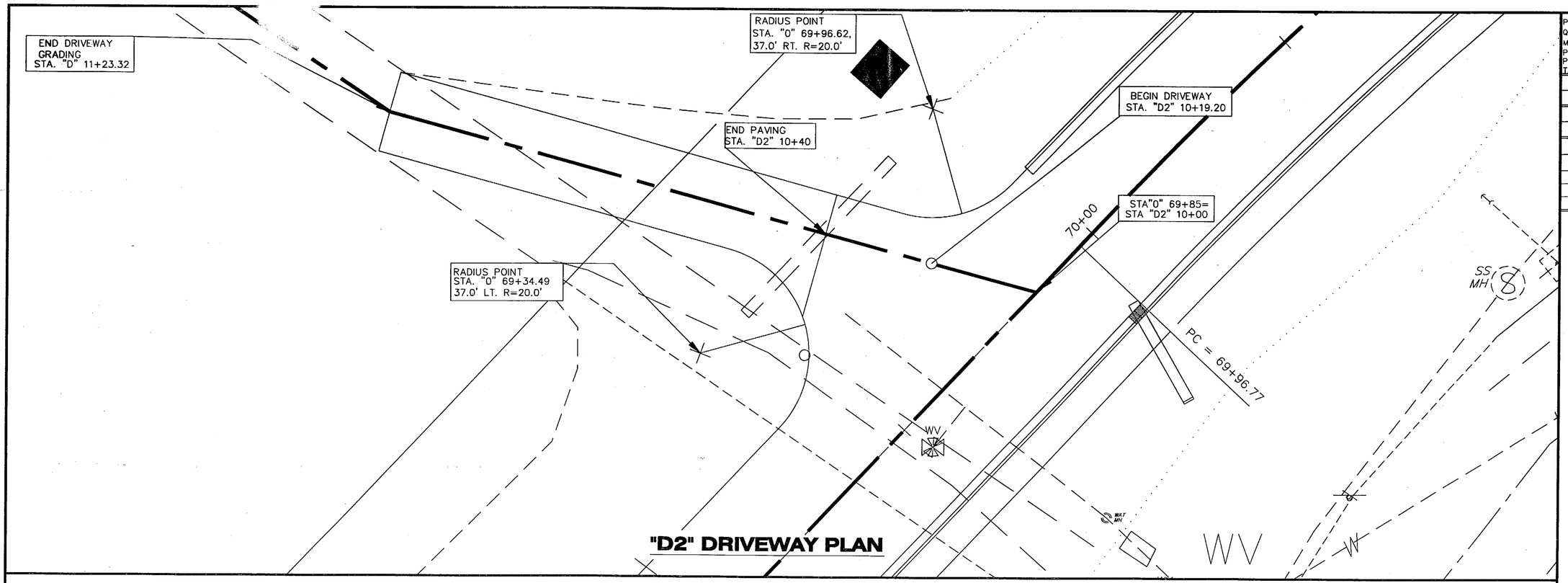
**THIRD AVENUE EXTENSION
PROJECT NO. 68490**

"R" Line Walkway & Stairway Details

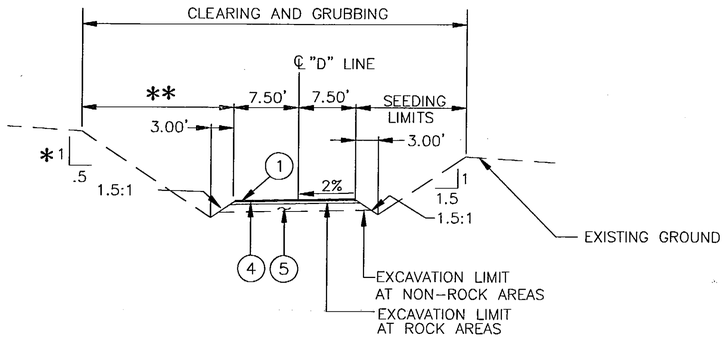
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	**2002**
SHEET NUMBER	TOTAL SHEETS
G2	**146**

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Engr [signature] Date 10.31.06



"D2" DRIVEWAY PLAN



TYPICAL SECTION

*BACKSLOPE SHALL BE 1.5:1 IF NON-ROCK

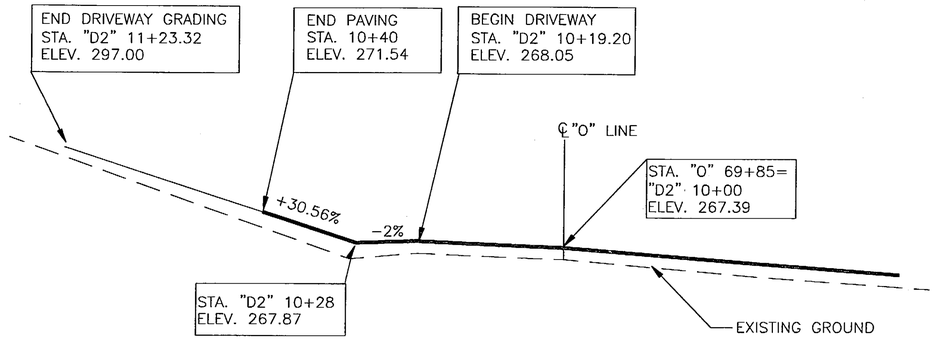
**SEEDING REQUIRED IF CUT SURFACE CONSISTS OF NON-ROCK

LEDGEND

(1) 2" ASPHALT CONCRETE PAVEMENT

(4) 4" CRUSHED AGGREGATE BASE COURSE

(5) 8" SUBBASE, GRADING "B"



PROFILE

"D2" DRIVEWAY DETAILS

PATH:
Q:\Ktn\71811A\Planset\G_ParkingLot.dwg
Mon, 06/May/02 09:32AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB:D-LINE DRIVE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

"D2" Line Driveway
Plan & Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

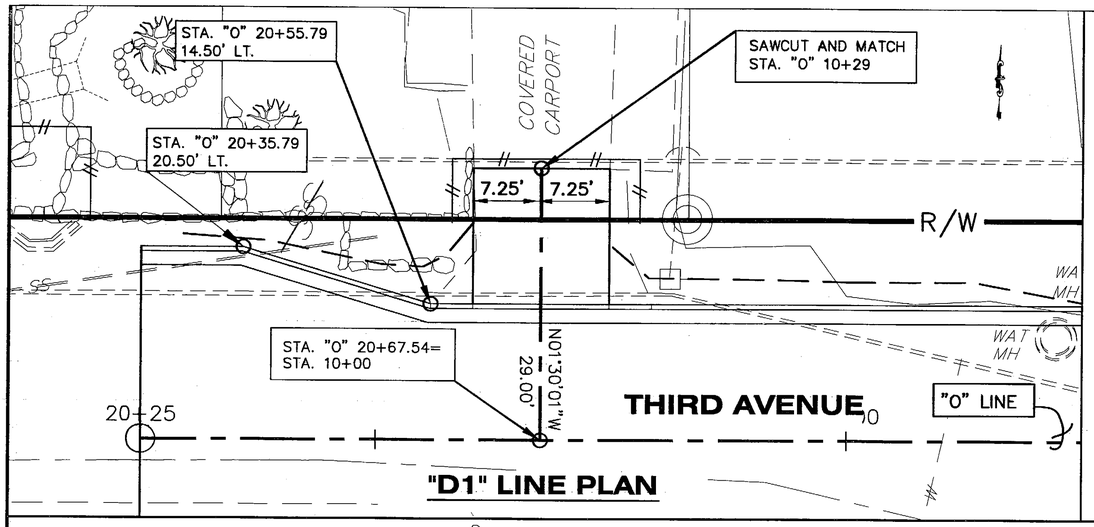
THIRD AVENUE EXTENSION
PROJECT NO. 68490

"D2" Line Driveway
Plan & Details

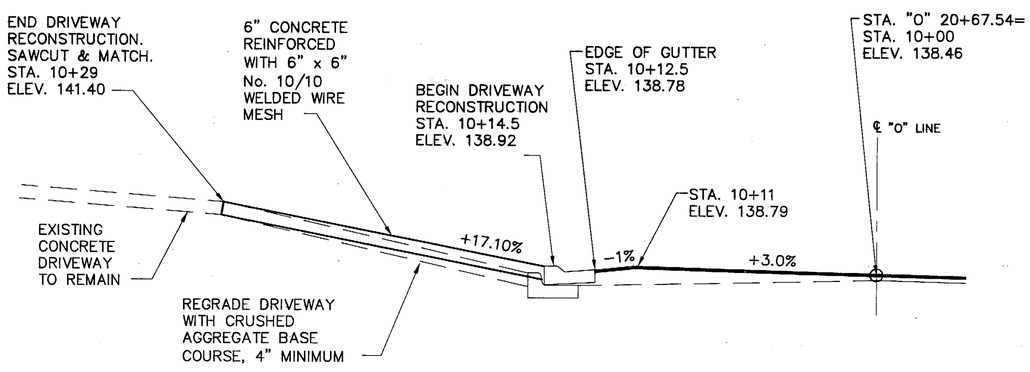
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

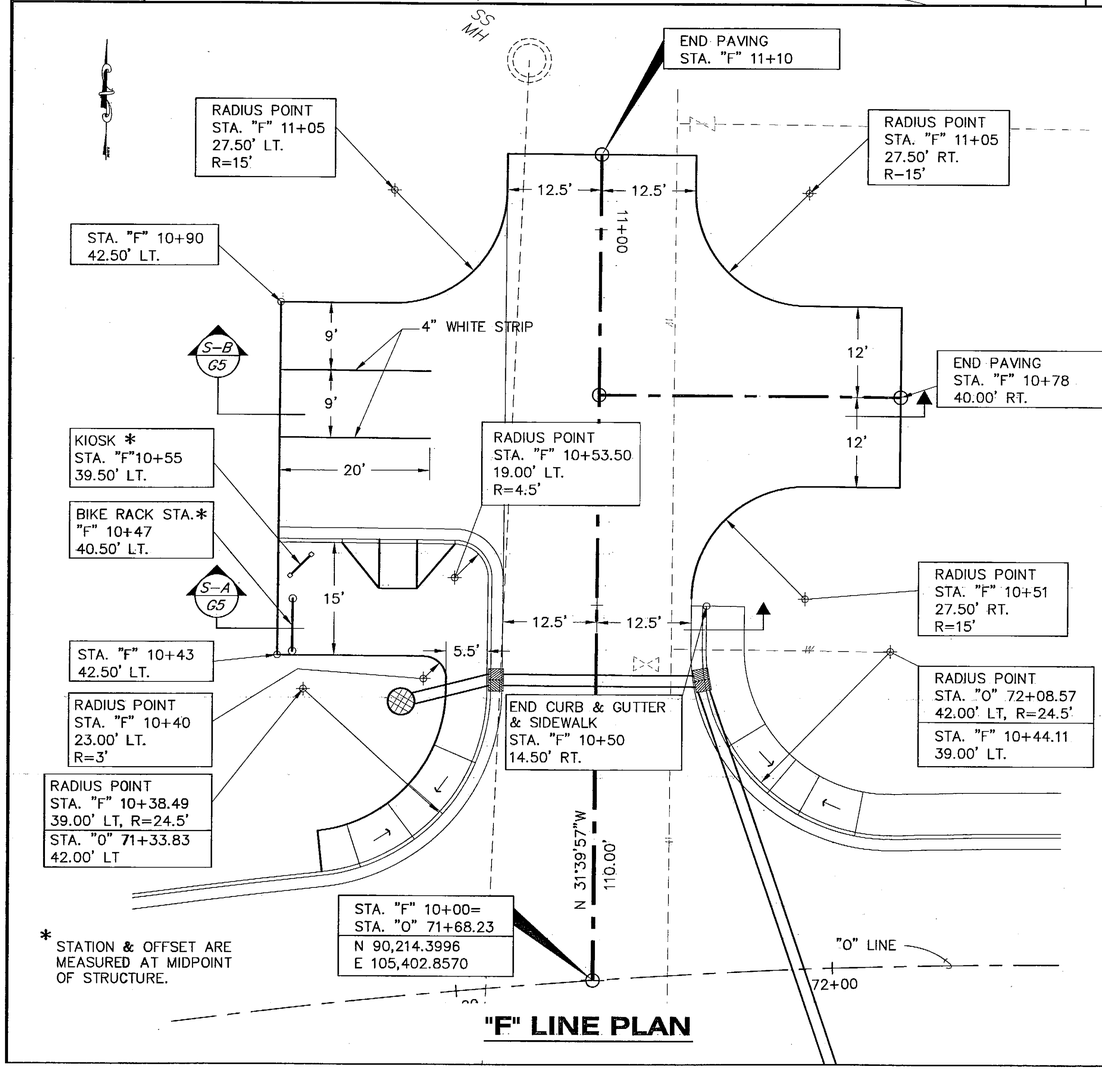
Proj. Eng _____ Date 10-31-02



"D1" LINE PLAN



"D1" LINE SECTION

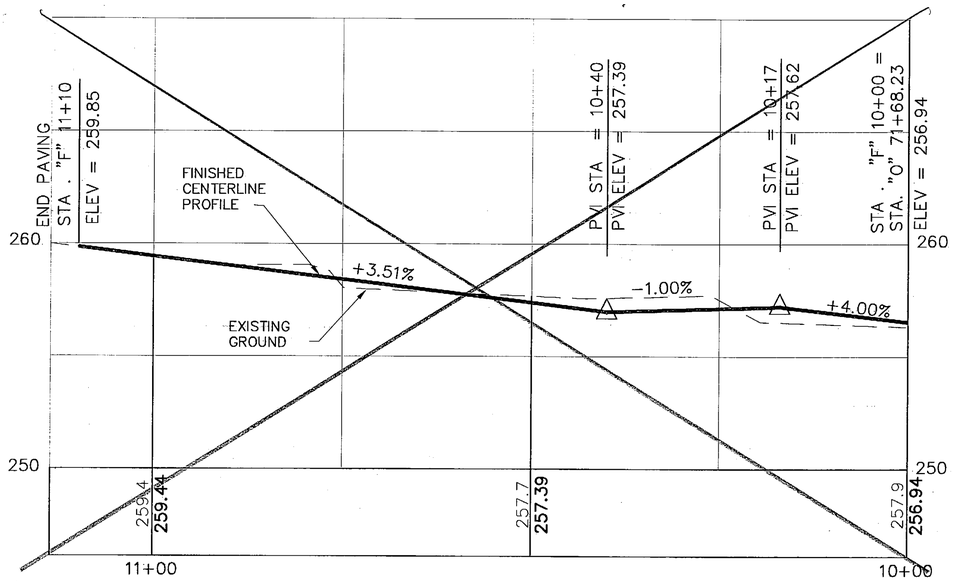


"F" LINE PLAN

SEE SHEET G4 REVISED FOR NEW "F" LINE DETAILS

Notes:

1. RADIUS IS MEASURED TO BACK OF CURB.
2. SEE SHEET K4 FOR KIOSK DETAIL.
3. SEE SHEET H3 FOR BIKE RACK DETAIL.



"F" LINE PROFILE

PATH:
Q:\Ktn\71811A\Planset\G_ParkingLot.dwg
Mon, 06/May/02 10:37AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=VARIES(F)
TAB: D1-LN AND F-LN

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Driveway Details "D1" & "F" Lines

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Driveway Details "D1" & "F" Lines

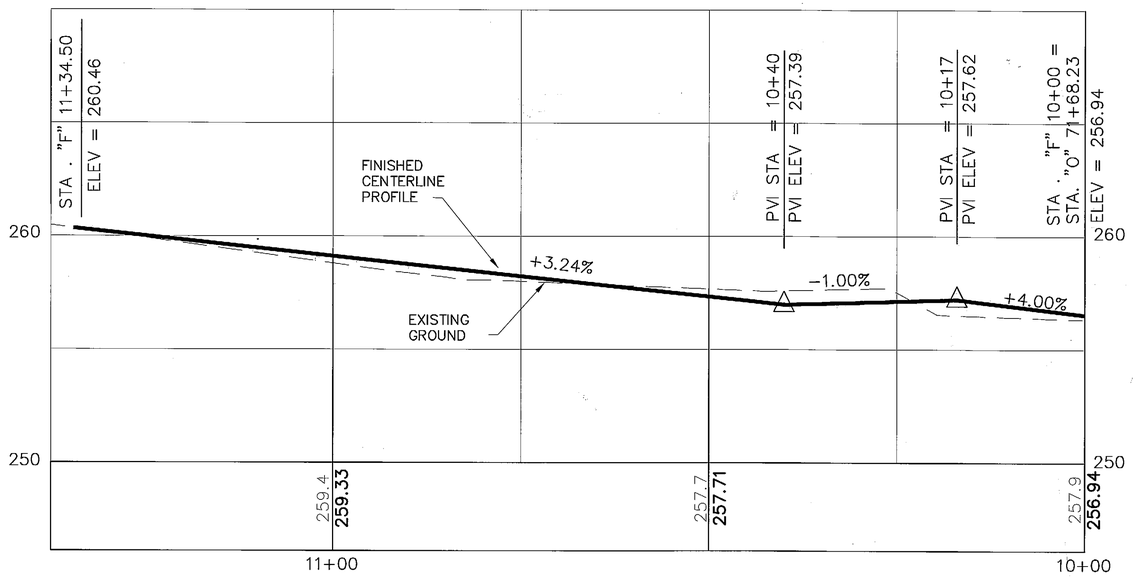
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

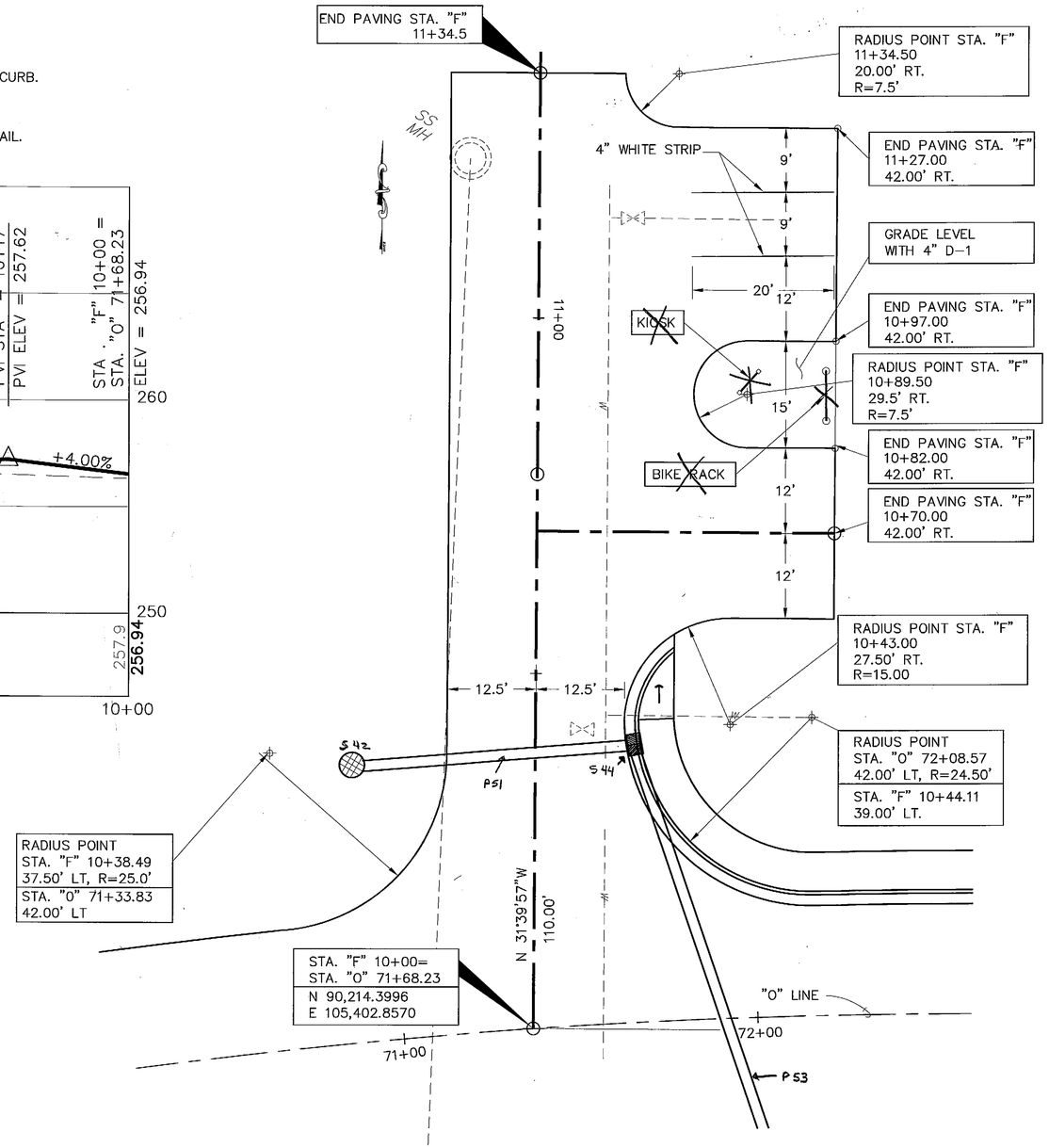
Proj. Eng _____ Date 6-3-02

Notes:

1. RADIUS IS MEASURED TO BACK OF CURB.
2. SEE SHEET K4 FOR KIOSK DETAIL.
3. SEE SHEET H3 FOR BIKE RACK DETAIL.



"F" LINE PLAN



"F" LINE PROFILE - REVISED

PATH: Q:\Ktn\71811A\En\p\3rdst\REVISON\FINAL DRA
Tue, 28/Jun/05 10:35AM
PLOT: rksnyder
PSPACE 1=1(F) OR MSPACE 1=VARIES(F)
TAB: D1-LN AND F-LN

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Driveway Details "D1" & "F" Lines

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

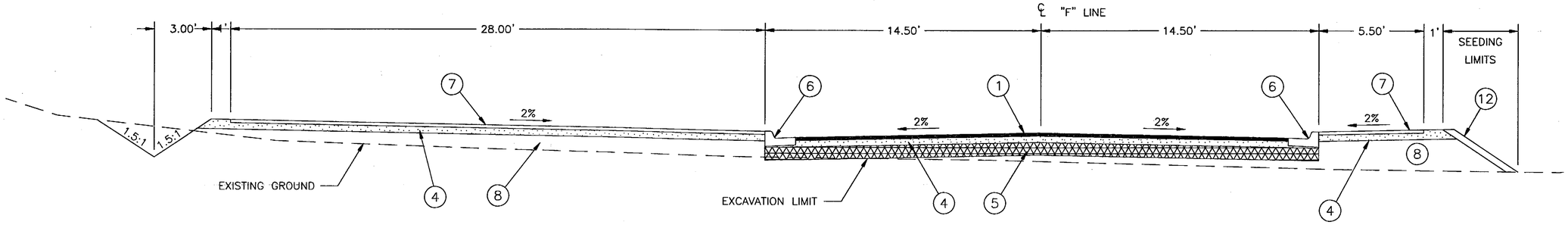
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Driveway Details "D1" & "F" Lines

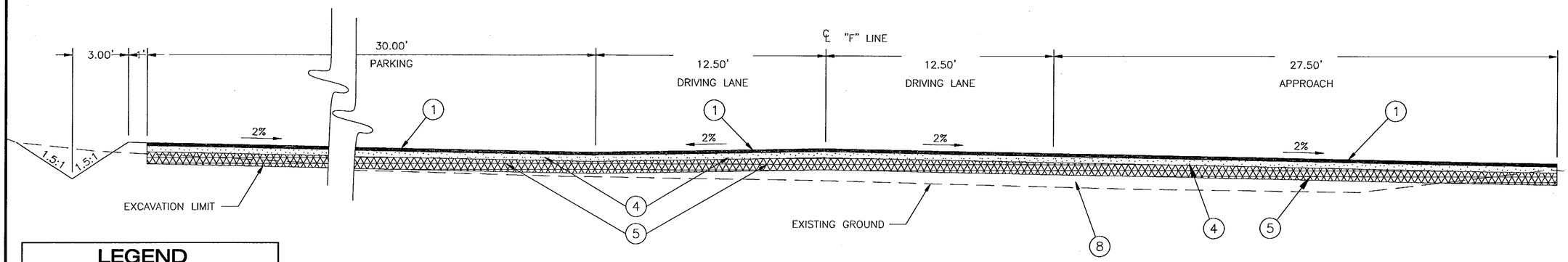
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 6.3.06



PARKING SECTION (A)



PARKING SECTION (B)

LEGEND

(1)	2" ASPHALT CONCRETE PAVEMENT TYPE II, CLASS A
(4)	4" CRUSHED AGGREGATE BASE COURSE
(5)	8" SUBBASE, GRADING "B"
(6)	CURB & GUTTER,TYPE 1
(7)	CONCRETE SIDEWALK, 4 INCHES THICK
(8)	EMBANKMENT (TYPE LISTED)*
(12)	4" TOPSOIL

* WHEN NO TYPE IS USED, TYP A OR D MAY BE USED, CONTRACTORS OPTION.

PATH:
Q:\Ktn\71811A\Planset\G_ParkingLot.dwg
Mon, 06/May/02 09:32AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: F-LINE-DRWY-SECTIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

"F" line Driveway Sections

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION PROJECT NO. 68490

"F" Line Driveway Sections

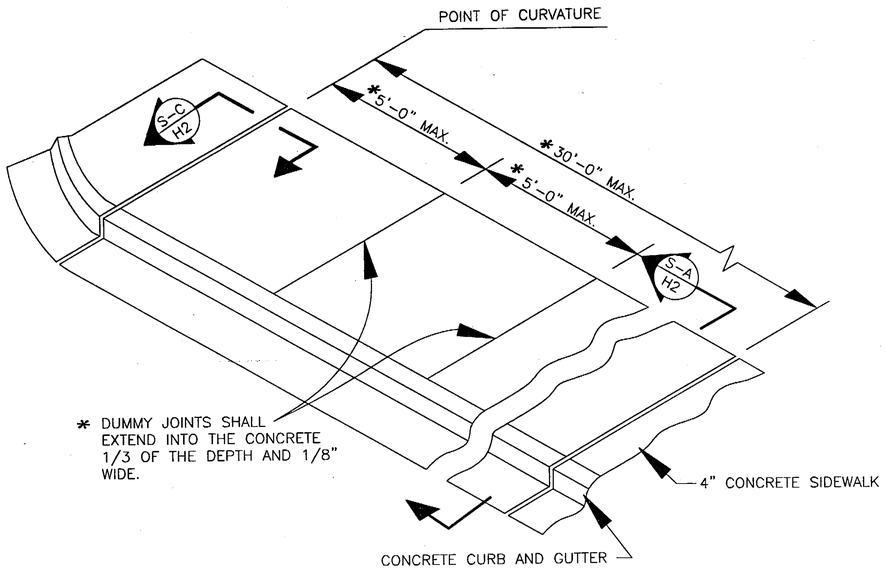
PROJECT DESIGNATION NUMBER

STP-MG-0904(2)

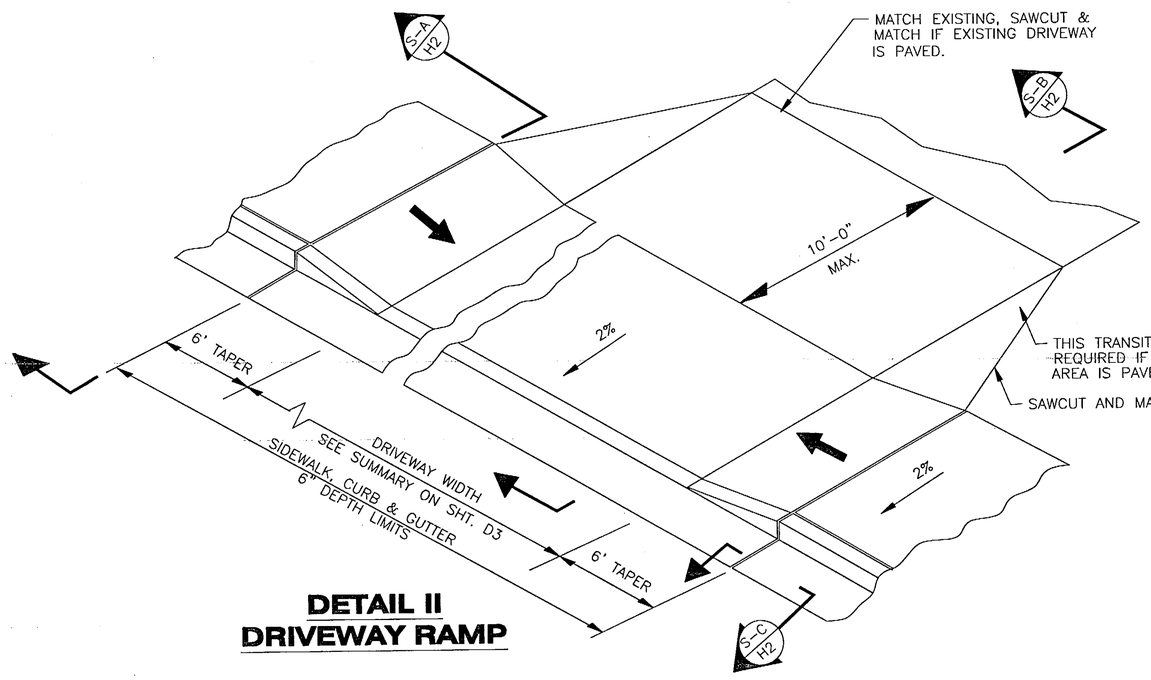
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
G5	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



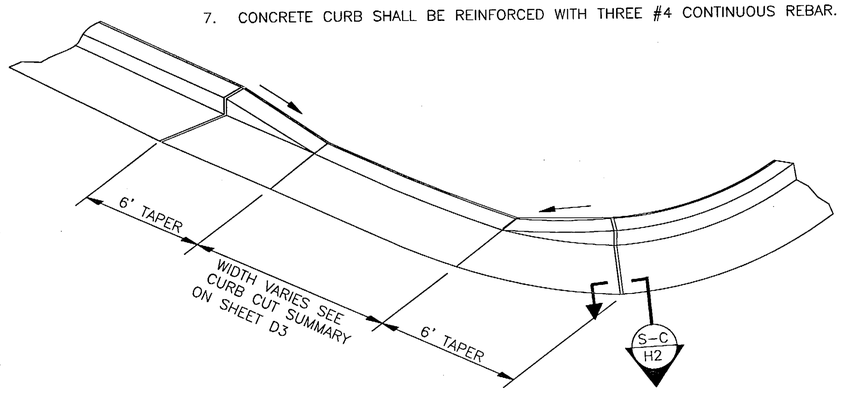
DETAIL I
TYPICAL SIDEWALK, CURB & GUTTER



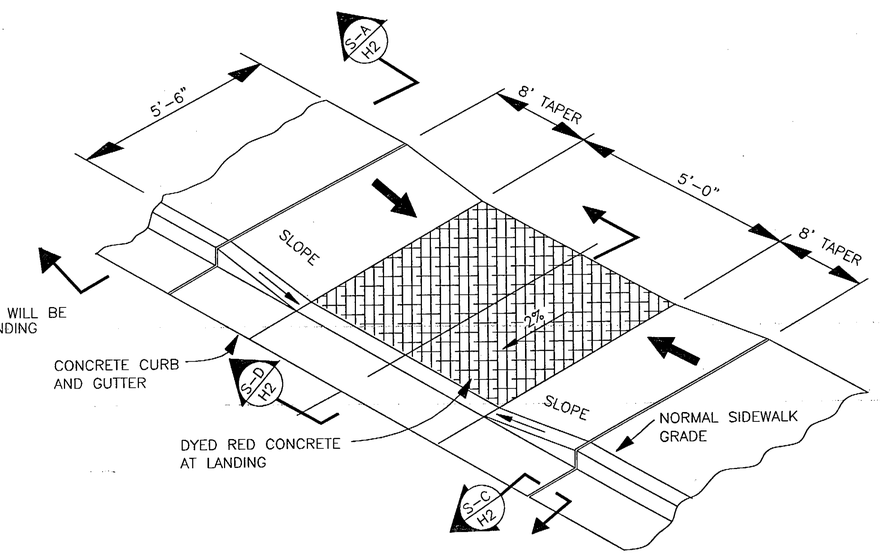
DETAIL II
DRIVEWAY RAMP

SIDEWALK, CURB AND GUTTER NOTES

1. CURB AND GUTTER EXPANSION JOINTS SHALL BE AT EACH END OF THE CURB RETURNS AND IMMEDIATELY PRECEEDING AND FOLLOWING ALL CURB CUTS. THEREAFTER, THEY SHALL BE PLACED AT 30'-0" MAXIMUM.
2. ALL CURB AND GUTTERS SHALL BE CLASS "A" CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF fc = 3000 psi.
3. CURB CUT FOR RESIDENTIAL DRIVEWAYS AND CURB RETURNS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE SLOPE OF 12:1.
4. SEE WORK SUMMARY ON SHEET FOR DRIVEWAY WIDTHS. NEW CURB CUTS SHALL BE LOCATED TO MATCH EXISTING.
5. IF EXISTING JOINT IS WITHIN 2' OF RECONSTRUCTION AREAS, REMOVE AT JOINT INSTEAD OF SAWCUTTING. THIS DOES NOT APPLY TO NEW CONSTRUCTION.
6. CONCRETE SIDEWALK, DRIVEWAYS AND WALKWAYS SHALL BE REINFORCED WITH 6"x6"-No. 10/10 WIRE MESH REINFORCEMENT.
7. CONCRETE CURB SHALL BE REINFORCED WITH THREE #4 CONTINUOUS REBAR.



DRIVEWAY RAMP - DETAIL III



WHEELCHAIR - DETAIL IV

PATH: Q:\Ktn\71811A\Planset\H_SidewalkDets.dwg
Mon, 06/May/02 09:34AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SDWK-DET1

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sidewalk & Curb Cut Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

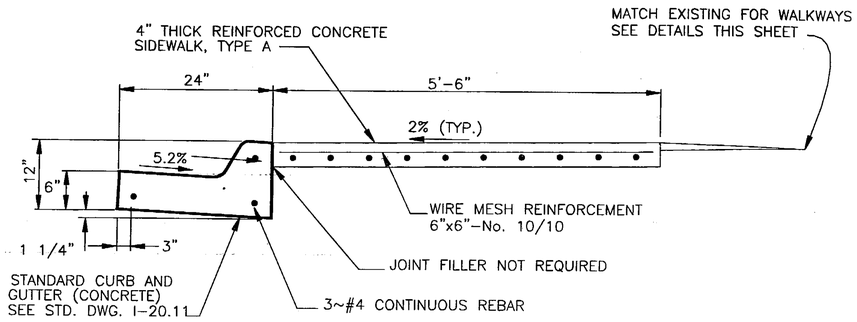
THIRD AVENUE EXTENSION PROJECT NO. 68490

Sidewalk & Curb Cut Details

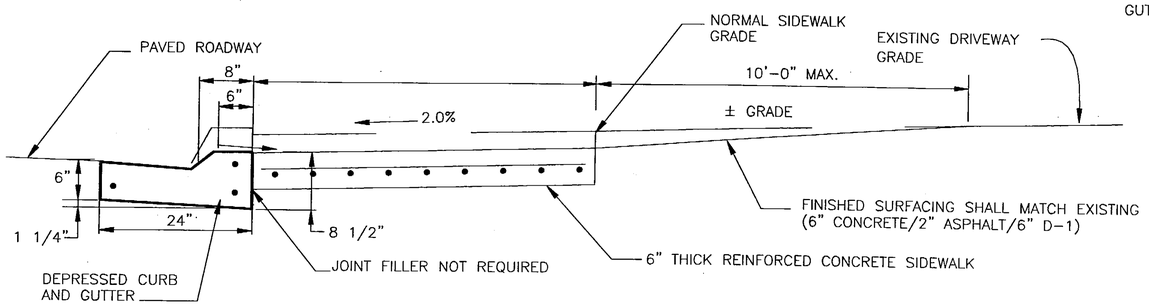
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
H1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-9-06

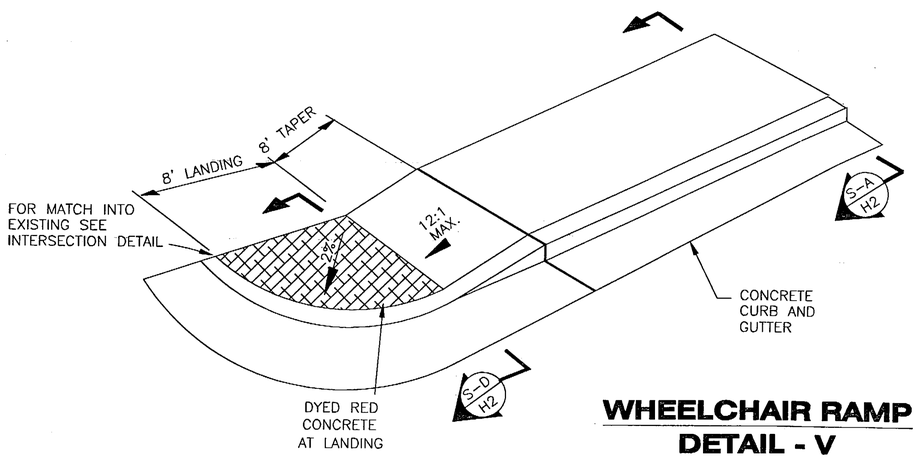


TYPICAL SECTION (A)

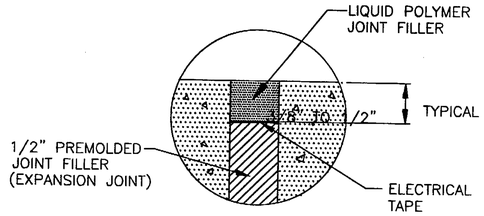


SECTION (B)

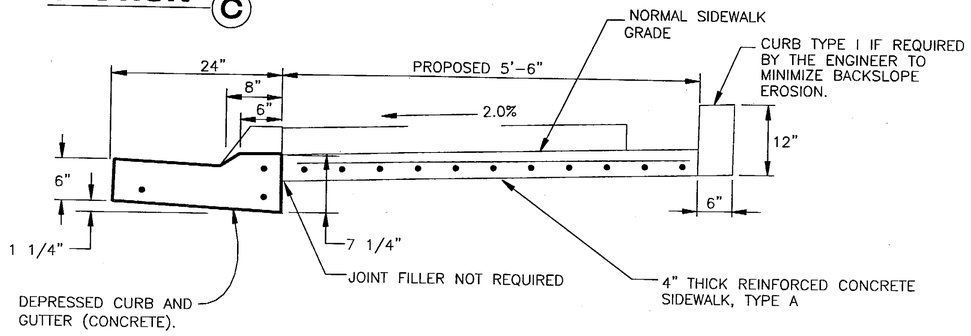
DEPRESSED CURB & DRIVEWAY



WHEELCHAIR RAMP DETAIL - V

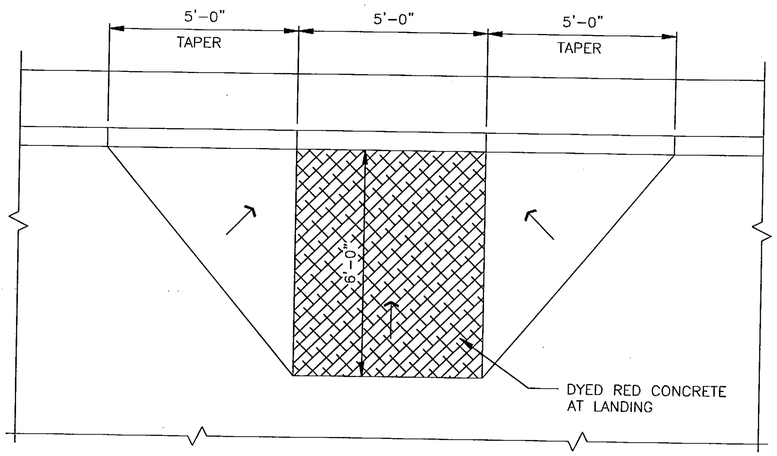


SECTION (C)



SECTION (D)

DEPRESSED CURB & RAMP



WHEELCHAIR RAMP DETAIL - VI

PATH: Q:\Ktn\71811A\Planset\H_SidewalkDets.dwg
Mon, 06/May/02 09:34AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SDWK-DET2

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sidewalk & Curb Cut Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

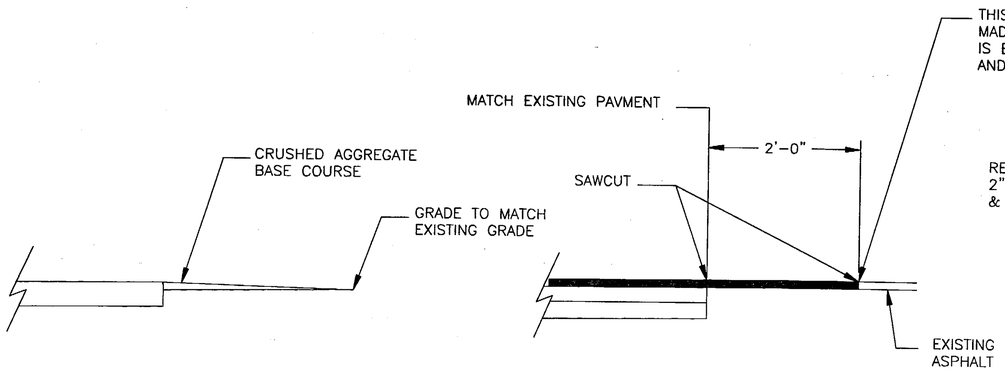
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sidewalk & Curb Cut Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
H2	146

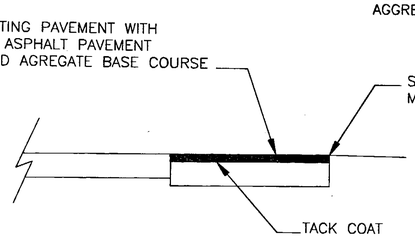
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10:3.06

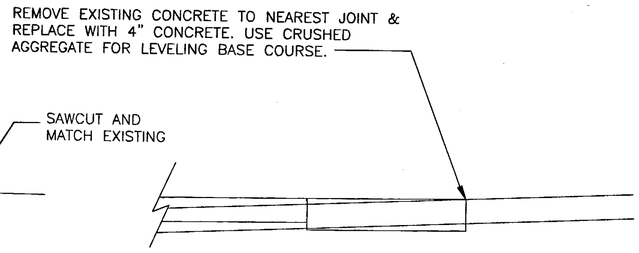


GRAVEL WALKWAY

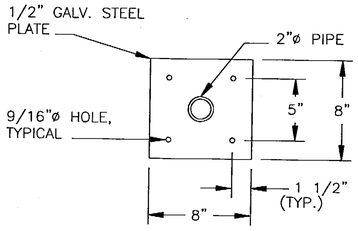
PAVEMENT JOINT DETAIL



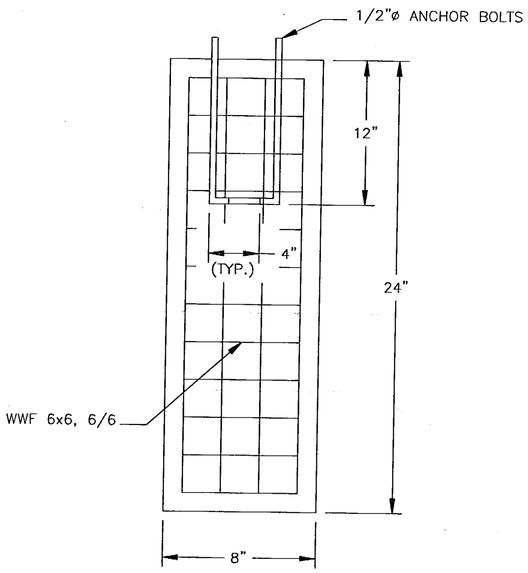
ASPHALT WALKWAY



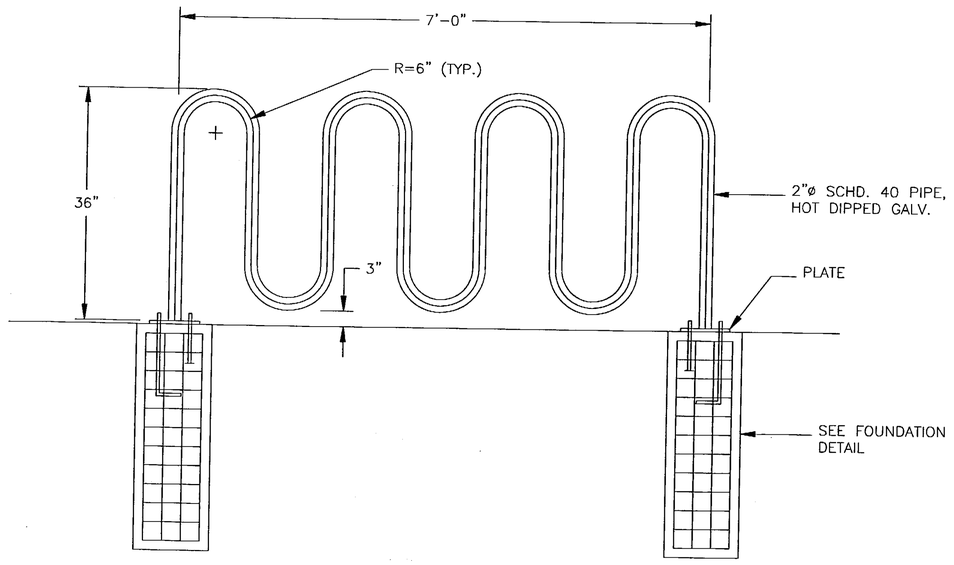
CONCRETE WALKWAY



PLATE



FOUNDATION



BIKE RACK DETAIL

PATH:
Q:\Ktn\71811A\Planset\H_SidewalkDets.dwg
Mon, 06/May/02 09:34AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SDWK-DET3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sidewalk Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

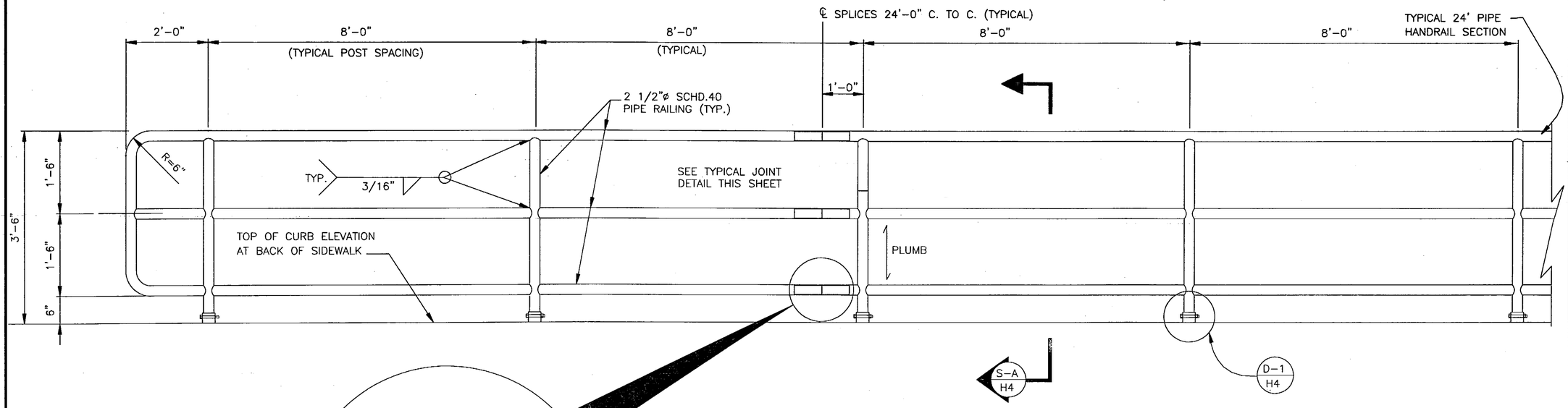
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sidewalk Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
H3	146

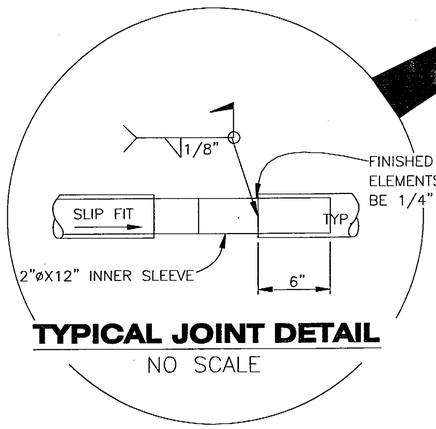
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 5.31.06



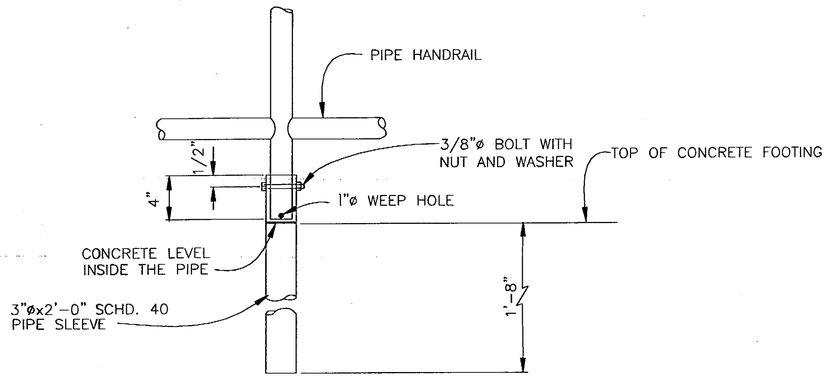
PEDESTRIAN RAILING DETAILS

NO SCALE

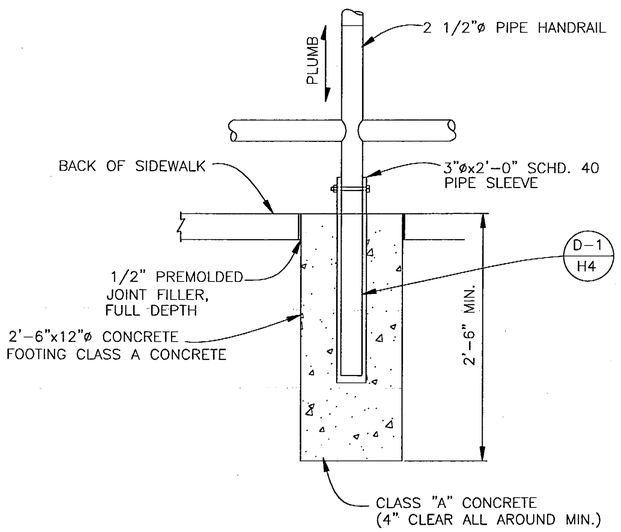


TYPICAL JOINT DETAIL

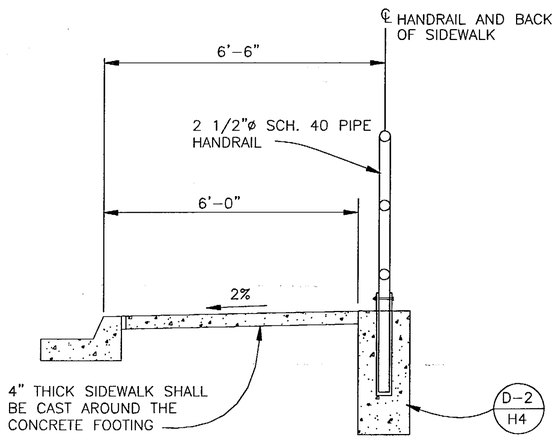
NO SCALE



PIPE SLEEVE DETAIL 1



CONCRETE FOOTING DETAIL 2



SECTION A

NO SCALE

PATH:
Q:\Ktn\71811A\Planset\H_SidewalkDets.dwg
Mon, 06/May/02 09:34AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: sdwk rail-DET4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Pedestrian Rail Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

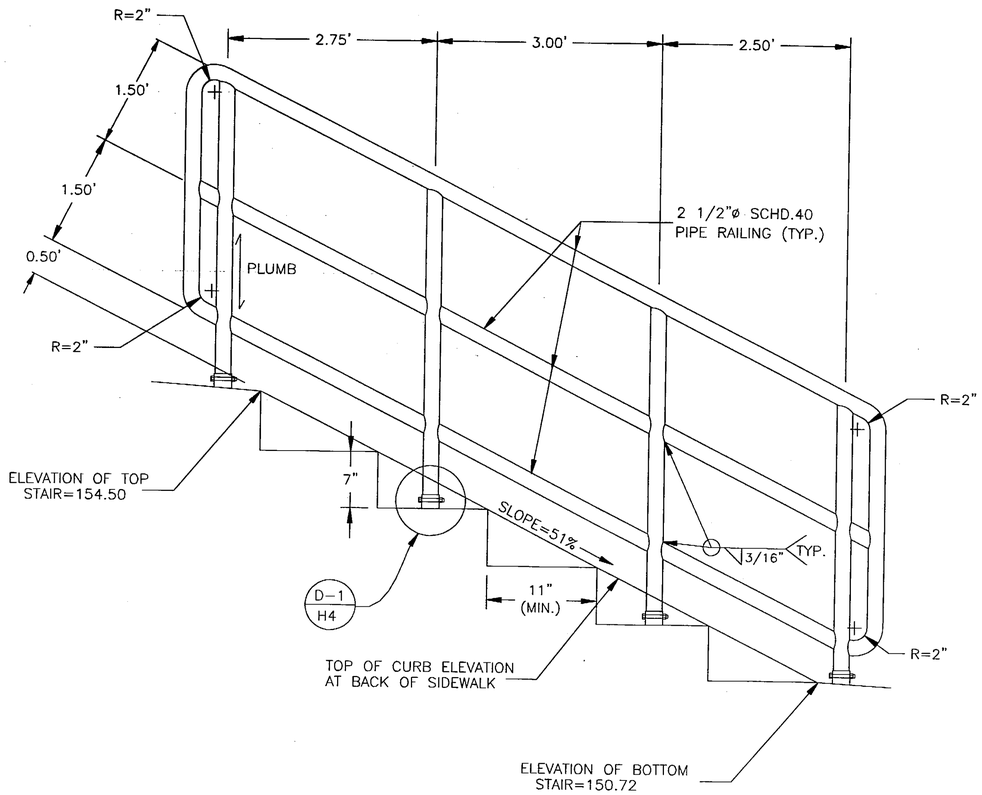
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Pedestrain Rail Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
H4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

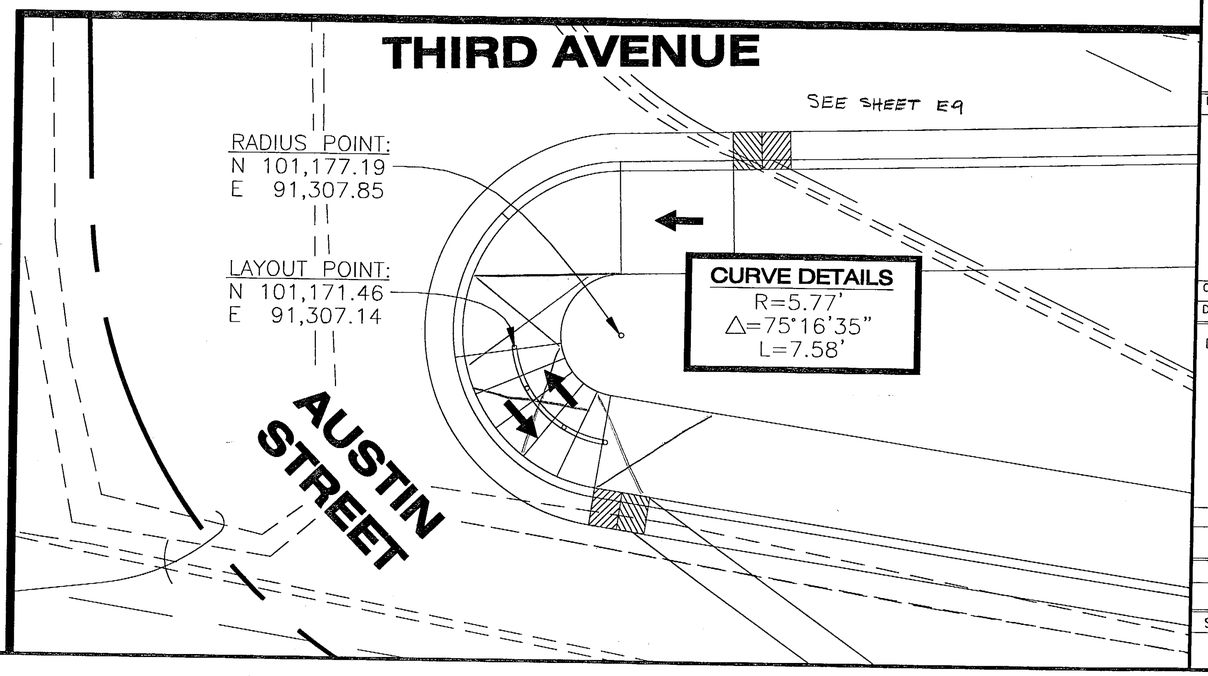
Proj. Eng _____ Date 6.3.02



NOTE:

1. ADJUST STAIRWAY PROFILE & RAILING TO FIT ACTUAL FIELD CONDITIONS.
2. SEE STANDARD DRAWING M-01.00 FOR DETAILS.

STAIRWAY PROFILE
NO SCALE



PATH:
Q:\Ktn\71811A\Planset\H_SidewalkDets.dwg
Mon, 06/May/02 09:34AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: sdwk rail-DET4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Austin Street
Pedestrian Rail Details

DESIGNED BY: J. OSBURN

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

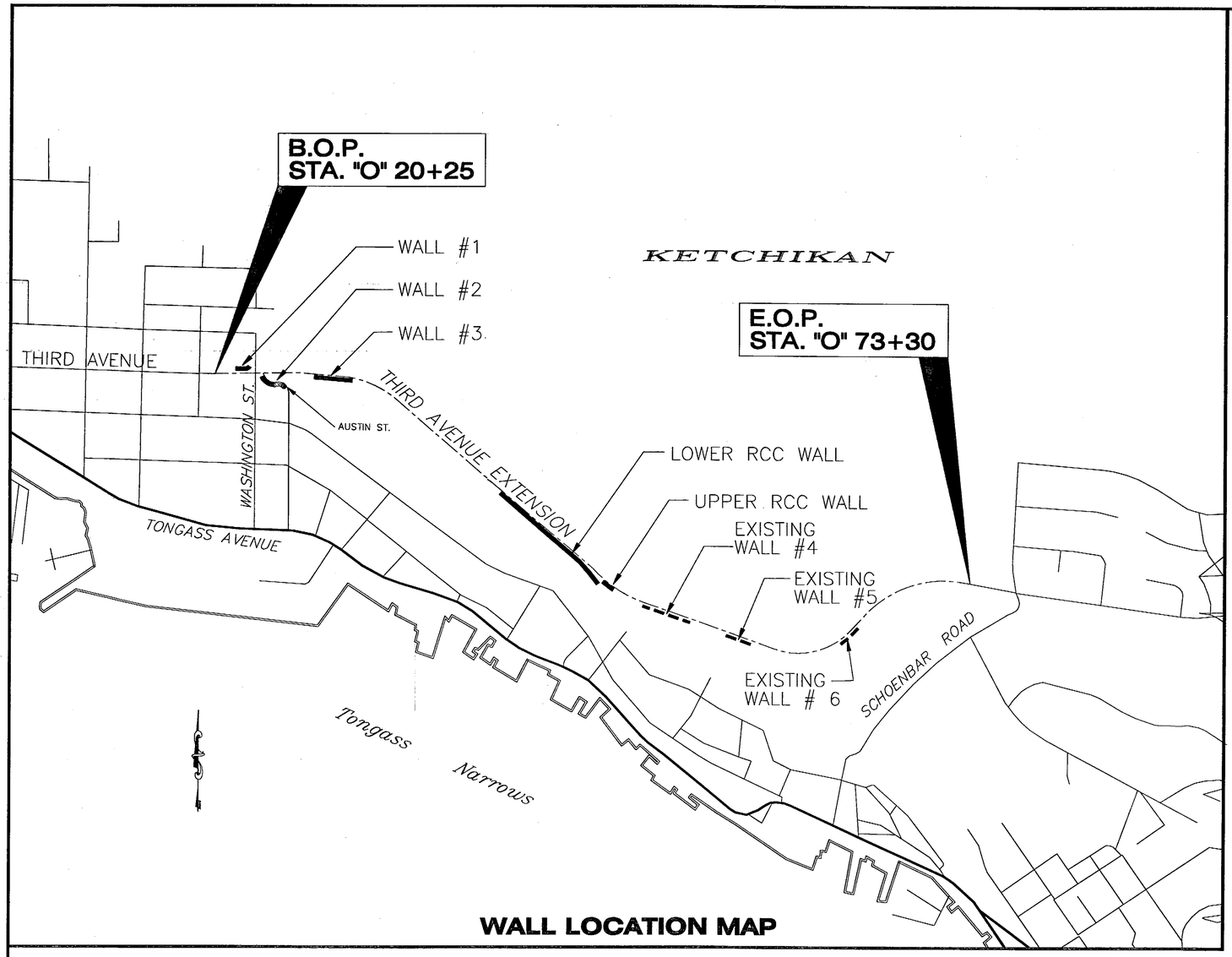
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Austin Street
Pedestrain Rail
Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
H5	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng KS Date 6-21-06



WALL LOCATION MAP

WALL	LOCATION	TYPE
WALL # 1	STA. "O" 21+30, LT. TO "O" 21+84, LT.	REINFORCED CONCRETE
WALL # 2	STA. "A" 10+25, RT. TO "A" 12+50, RT.	REINFORCED CONCRETE
WALL # 3	STA. "O" 24+50, RT. TO "O" 25+75, RT.	MSE
LOWER RCC WALL	STA. "O" 40+00, RT. TO "O" 50+64, RT.	ROLLER COMPACTED CONCRETE
UPPER RCC WALL	STA. "O" 50+72, RT. TO "O" 51+71, RT.	ROLLER COMPACTED CONCRETE
WALL # 4	STA. "O" 54+00, RT. TO "O" 56+71, RT.	EXISTING MSE
WALL # 5	STA. "O" 58+40, RT. TO "O" 60+60, RT.	EXISTING MSE
WALL # 6	STA. "O" 66+75, RT. TO "O" 68+05, RT.	EXISTING MSE

RCC = ROLLER COMPACTED CONCRETE
MSE = MECHANICALLY STABILIZED EMBANKMENT

GENERAL NOTES:

1. Water may be encountered during the excavation phase for the MSE Walls. The Contractor shall submit a drainage plan to the Engineer for approval, prior to commencing excavation for each Retaining Wall Site. Drainage Plans Will Be an Amendment To The Projects SWPPP.
2. Adjustments may be necessary to some MSE Retaining Wall Sites line and grade. Prior to construction, the Contractor shall verify each Retaining Wall Sites line and grade with the Engineer.
3. Bottom of retaining walls may vary from the drawings. Bottom of retaining walls will be determined, based on the amount of excavation to firm ground or bedrock as required by the Engineer.

MSE WALL:

MATERIALS:

DESIGN DATA		
MSE BACKFILL	δ / ϕ	130 / 40°
RANDOM BACKFILL	δ / ϕ	125 / 35°
FOUNDATION SOIL	δ / ϕ	130 / 40°
FOUNDATION BEDROCK		

FOUNDATION FOR WALLS WILL BE ON SOUND BEDROCK.

FACTORS OF SAFETY FOR STEEPEND SLOPES:
INTERNAL F.S. = 1.3
SLIDING F.S. = 1.5
PULLOUT F.S. = 1.5

SURCHARGE: 350#/ft.^{2} ,OVER 35' ROADWAY.

Design peak horizontal seismic acceleration (90% probability not to be exceeded in 50 years) on rock = 0.02g.

SPECIFICATIONS:

AASHTO Standard Specifications for Highway Bridges, 1996 Edition with the latest amendments.
Design Loading = HS25, Design Life = 75 Years

CONSTRUCTION:

State of Alaska Standard Specifications for Highway Construction, 1988 Edition and the Special Provisions.

NOTE:

SEE SHEETS L1-L8 FOR ROLLER COMPACTED CONCRETE WALL PLAN AND DETAILS.

PATH:
Q:\Ktn\71811A\Planset\J_RetainWalls.dwg
Mon, 06/May/02 09:36AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall Locatrions Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: R.S./T.M.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

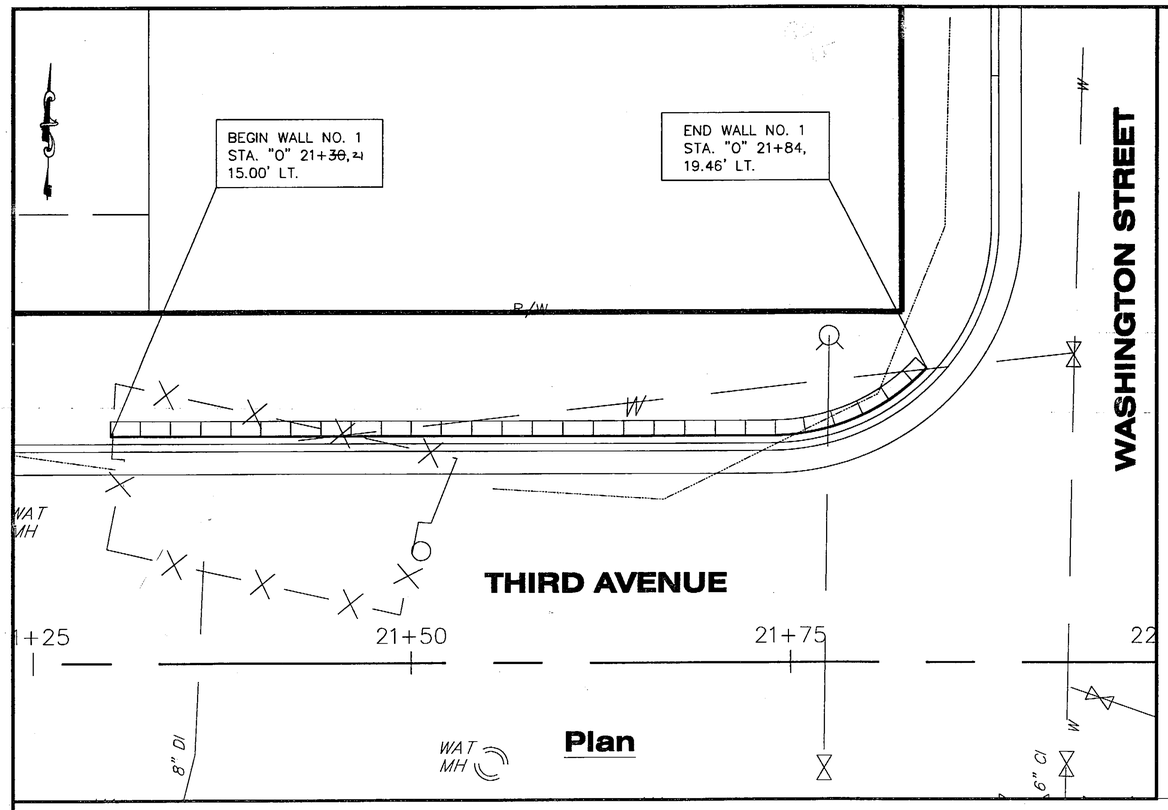
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall Locations Plan

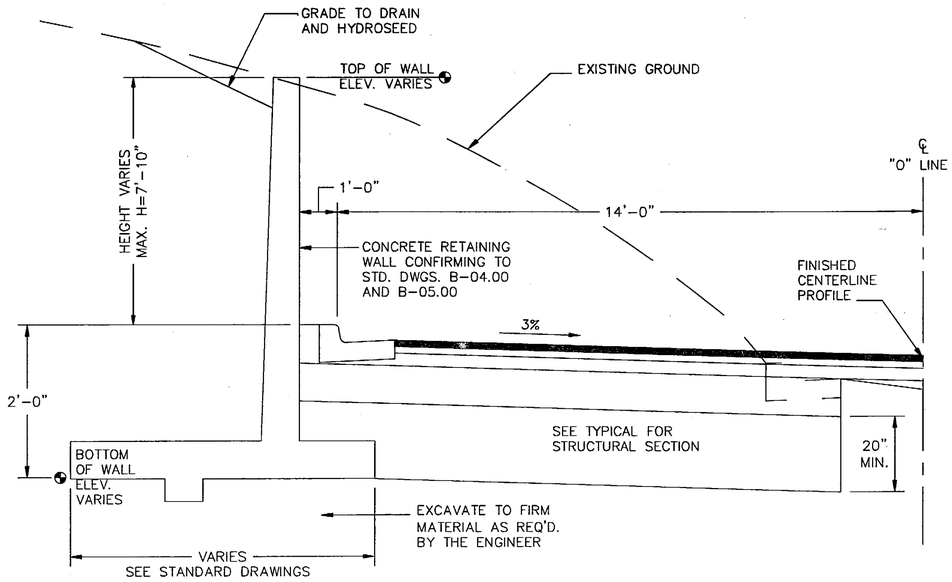
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
J1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

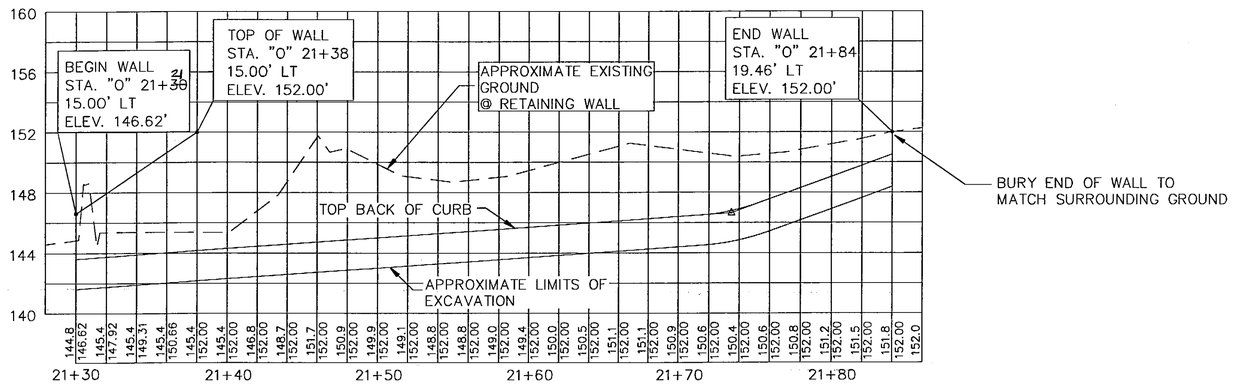
Proj. Eng _____ Date 10-9-06



Plan



Section



Profile

RETAINING WALL NO. 1

STA. "O" 21+~~30~~ 21 TO "O" 21+84

PATH:
Q:\Ktn\71811A\Planset\J_RetainWalls.dwg
Tue, 07/May/02 02:37PM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall No. 1

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

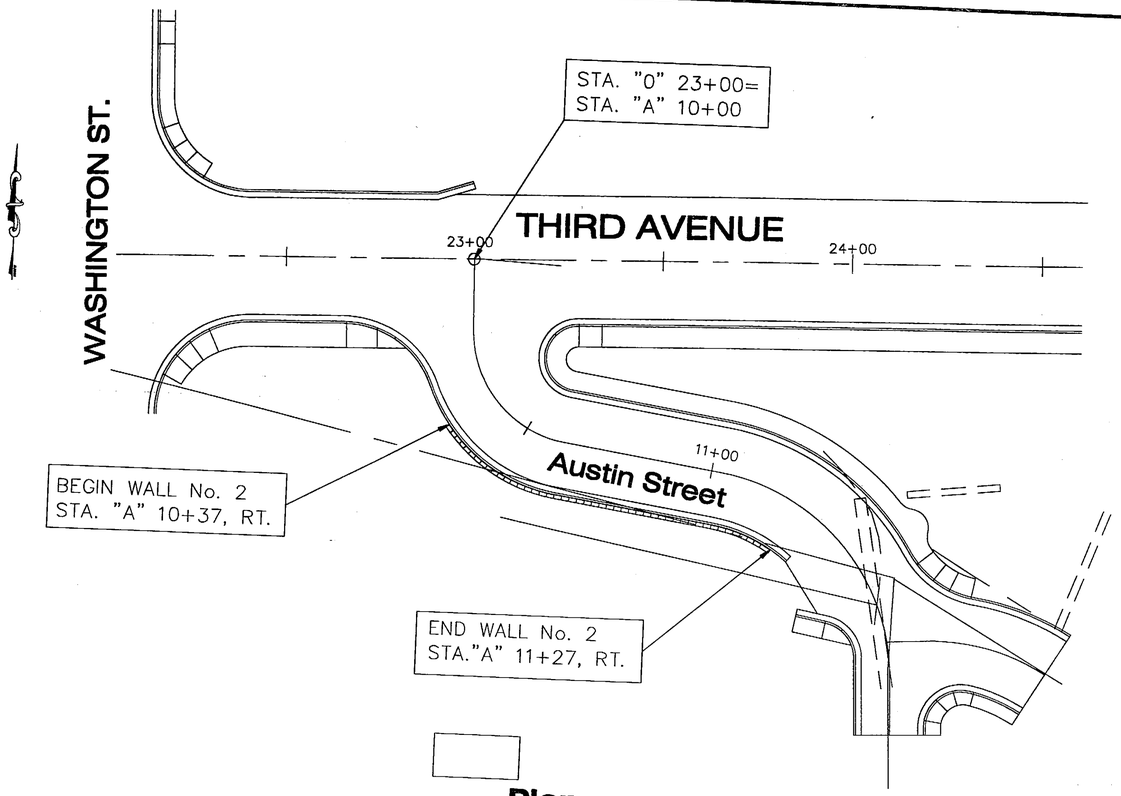
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall No. 1

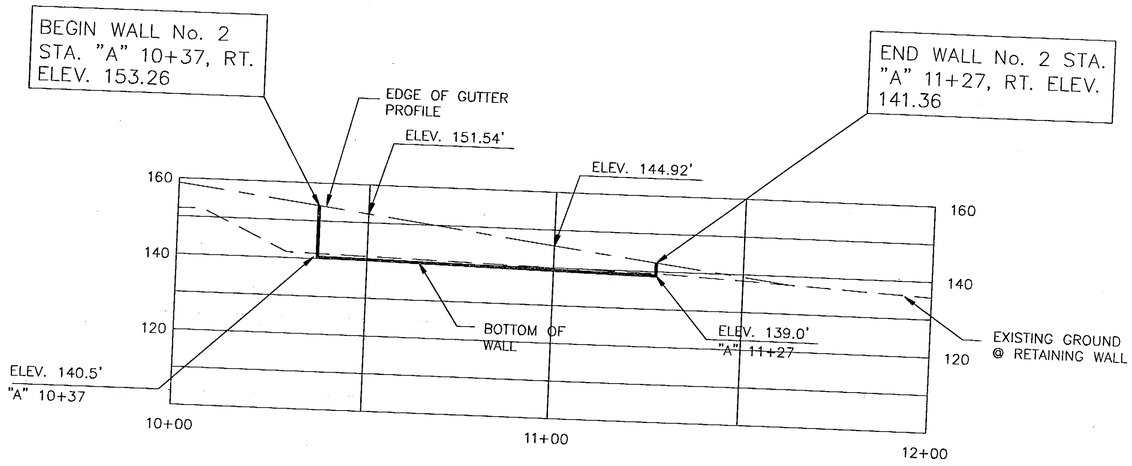
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
J2	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

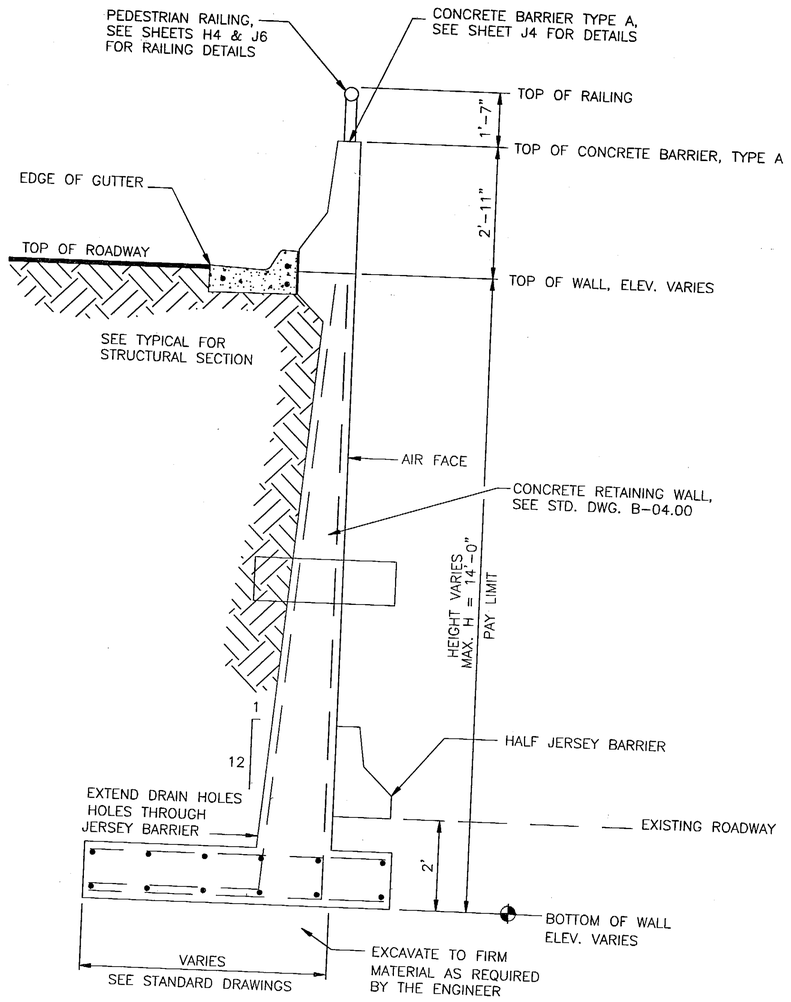
Proj. Eng _____ Date 10.31.06



Plan



Profile



Section

RETAINING WALL NO. 2
STA. "A" 10+25 TO "A" 12+50

PATH:
Q:\Ktn\71811A\Planset\J_RetainWalls.dwg
Mon, 06/May/02 09:36AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall No. 2

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

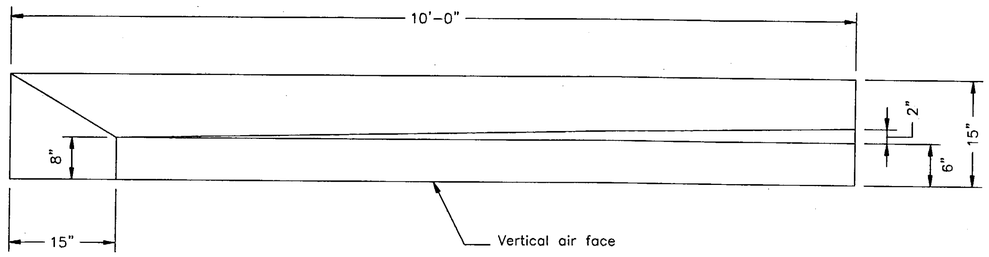
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall No. 2

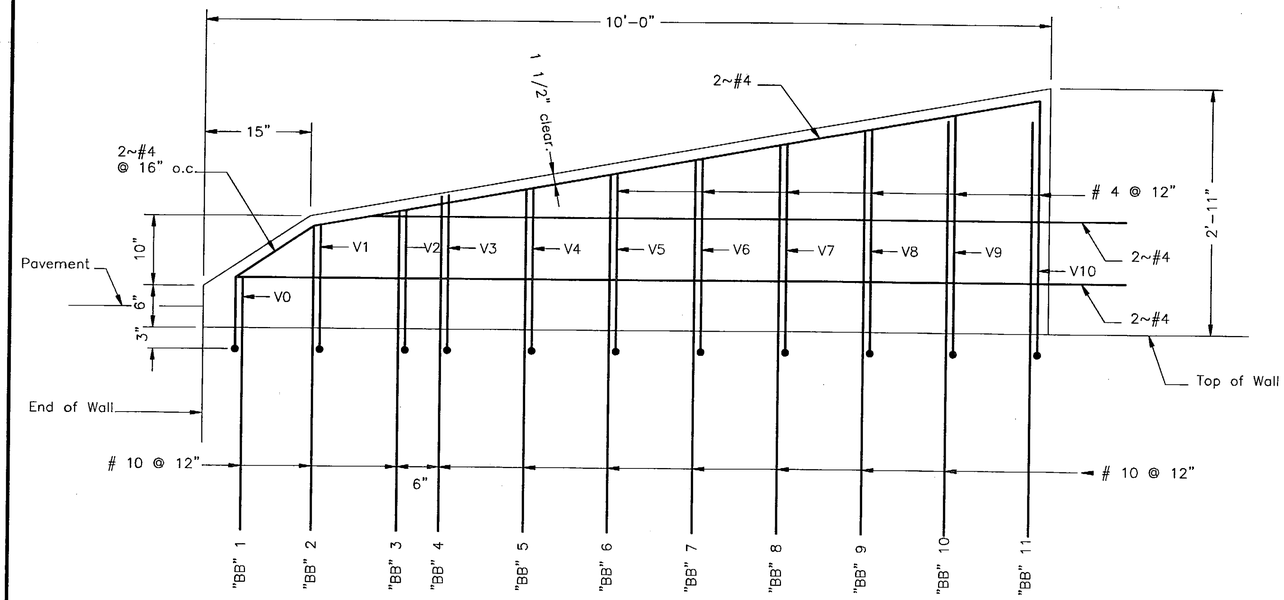
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
J3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

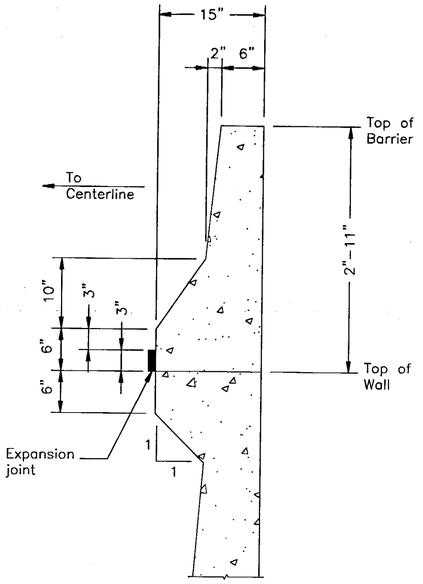
Proj. Eng _____ Date 10-4-06



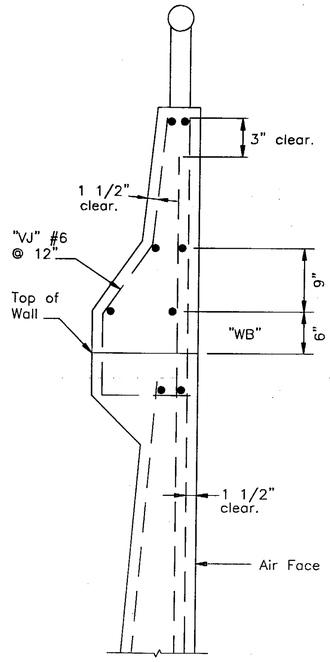
Transition Plan



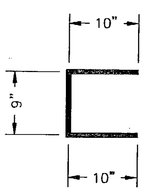
Transition Elevation



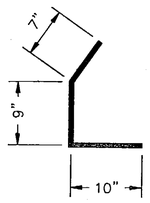
Concrete Barrier
Type A



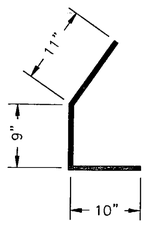
Rebar Detail



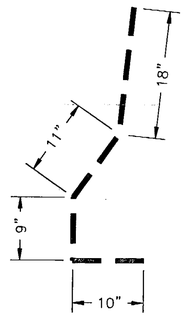
Bar V0
6



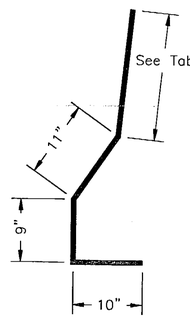
Bar V1
6



Bar V2
6

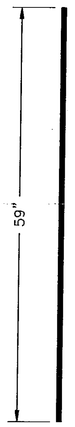


Bar "VJ"
6

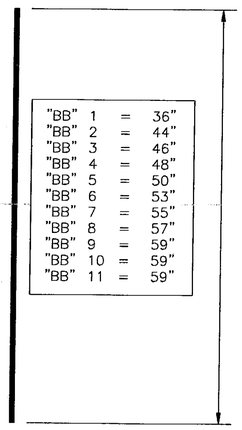


Bar V
4

Dimension Varies in the Transition Sections from 0" to 19":		
V3	=	1"
V4	=	3"
V5	=	6"
V6	=	8"
V7	=	11"
V8	=	13"
V9	=	16"
V10	=	18"



Bar "WB"
10



"BB" 1	=	36"
"BB" 2	=	44"
"BB" 3	=	46"
"BB" 4	=	48"
"BB" 5	=	50"
"BB" 6	=	53"
"BB" 7	=	55"
"BB" 8	=	57"
"BB" 9	=	59"
"BB" 10	=	59"
"BB" 11	=	59"

Bar "BB"
10

Notes:

1. Concrete shall be Class A, f_c^1 = 4,000 psi @ 28 Days
2. Concrete clear cover for reinforcing bars shall be minimum of 1 1/2".
3. Reinforcing steel bars shall conform to A.S.T.M. A-615 Grade 60.
4. Expansion joints shall be installed at the beginning and ending of the transition.
5. Expansion joints shall be installed at 10 foot intervals for length of half concrete barrier.
6. Connector hooks and pins (per Standard Drawing G-45.00 or approved equivalent) shall be used to fasten the concrete barrier end section to the half concrete barrier unless the contractor chooses to cast-in-place the concrete barrier end section, in which the hooks and pins shall be eliminated.
7. Modify Standard Drawing G-45.00 as follows:
   A. Eliminate the two 2"x6" keys in base (as shown in the G-45.00 Transition Elevation View) and increase base depth to 6 inches.

PATH:
Q:\Ktn\71811A\Planset\J_RetainWalls.dwg
Mon, 06/May/02 09:37AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall No. 2 Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

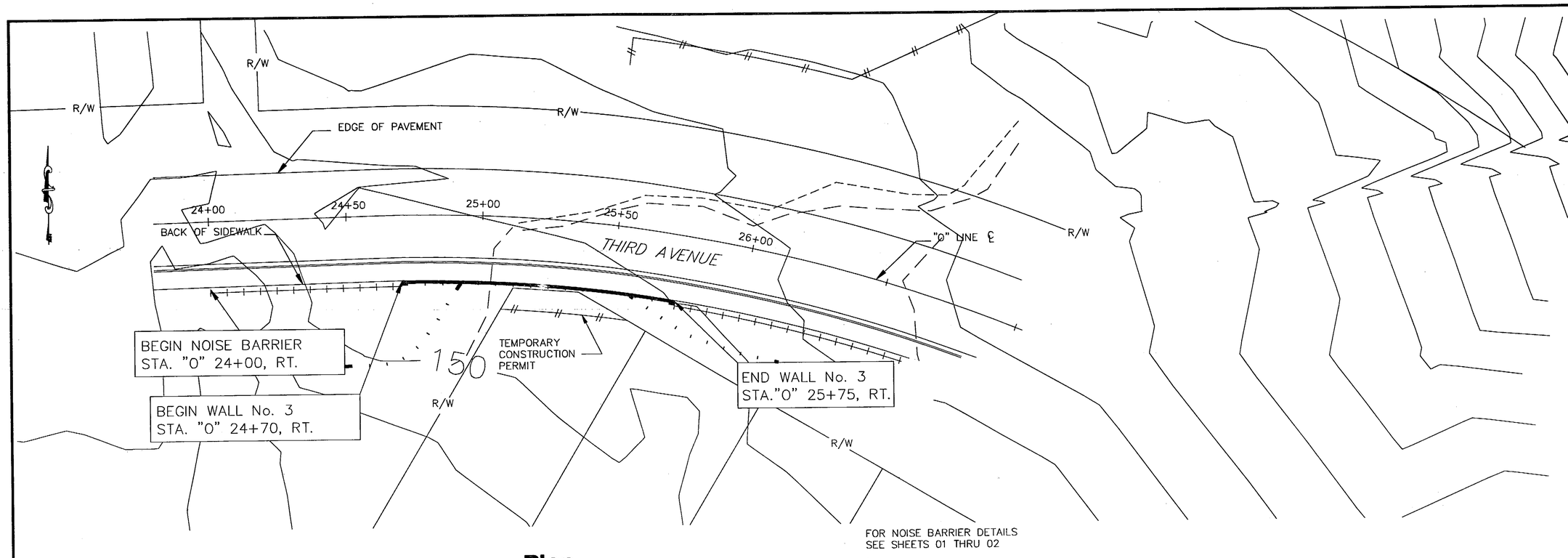
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall Details

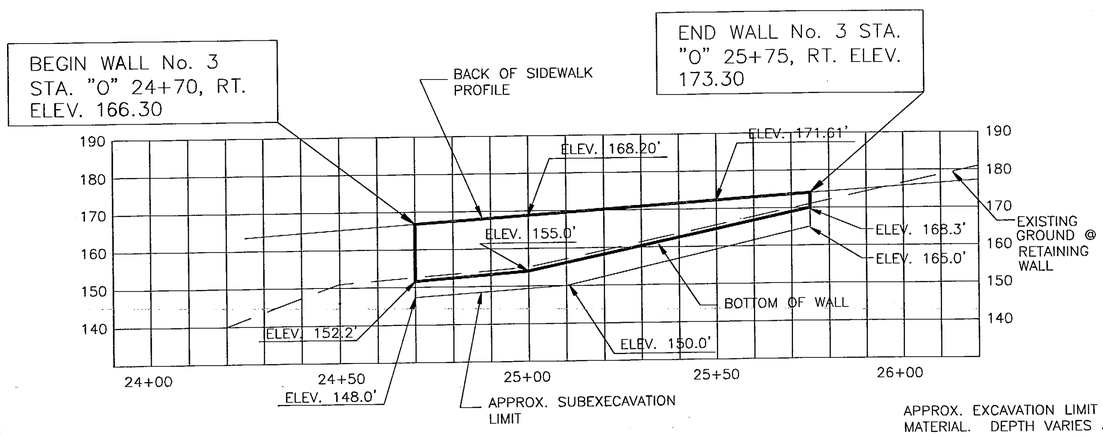
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
J4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

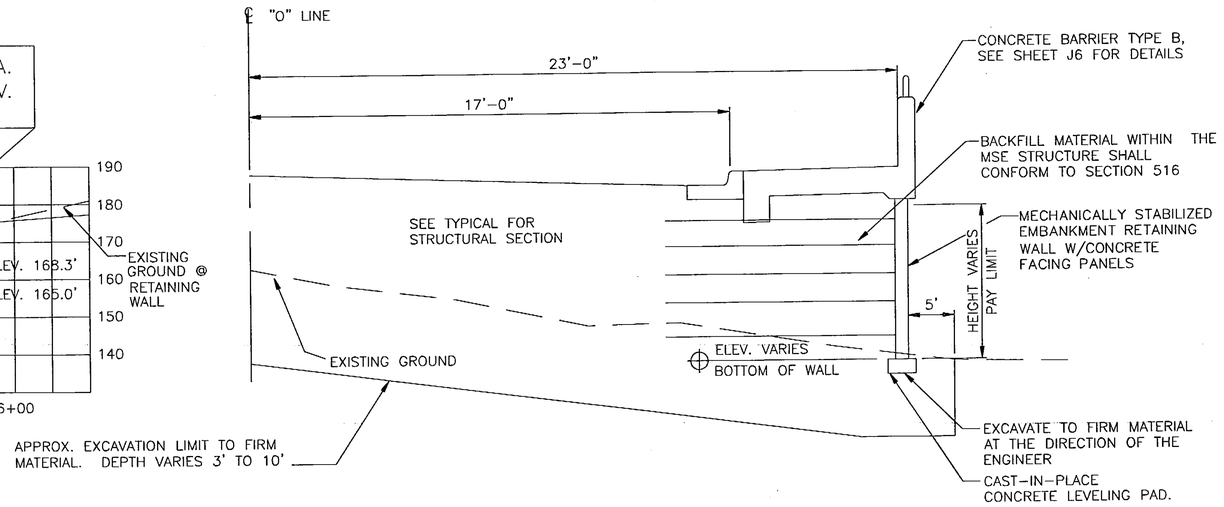
Proj. Eng _____ Date 10/31/05



Plan



Profile



Section

RETAINING WALL NO. 3

STA. "O" 24+50 TO "O" 25+75

PATH:
Q:\Ktn\71811A\Planset\J_RetainWalls.dwg
Mon, 06/May/02 09:36AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall No. 3

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall No. 3

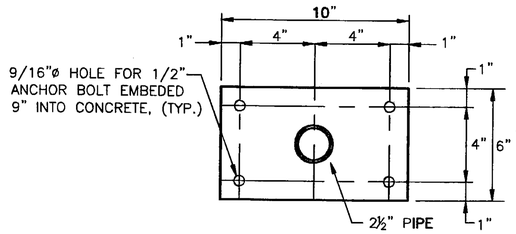
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
J5	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

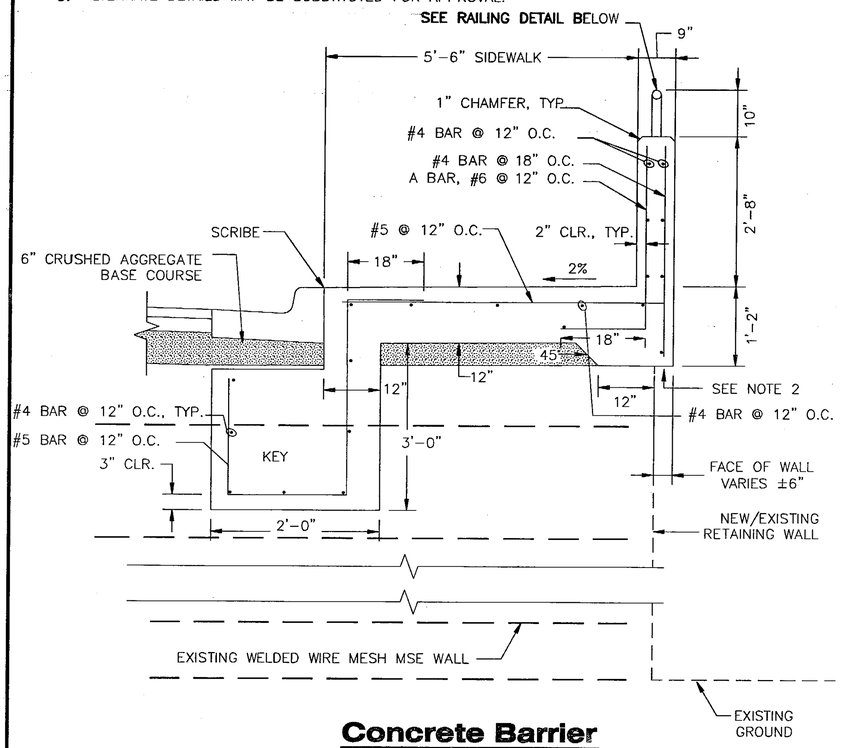
Proj. Eng. _____ Date 10.31.06

Notes:

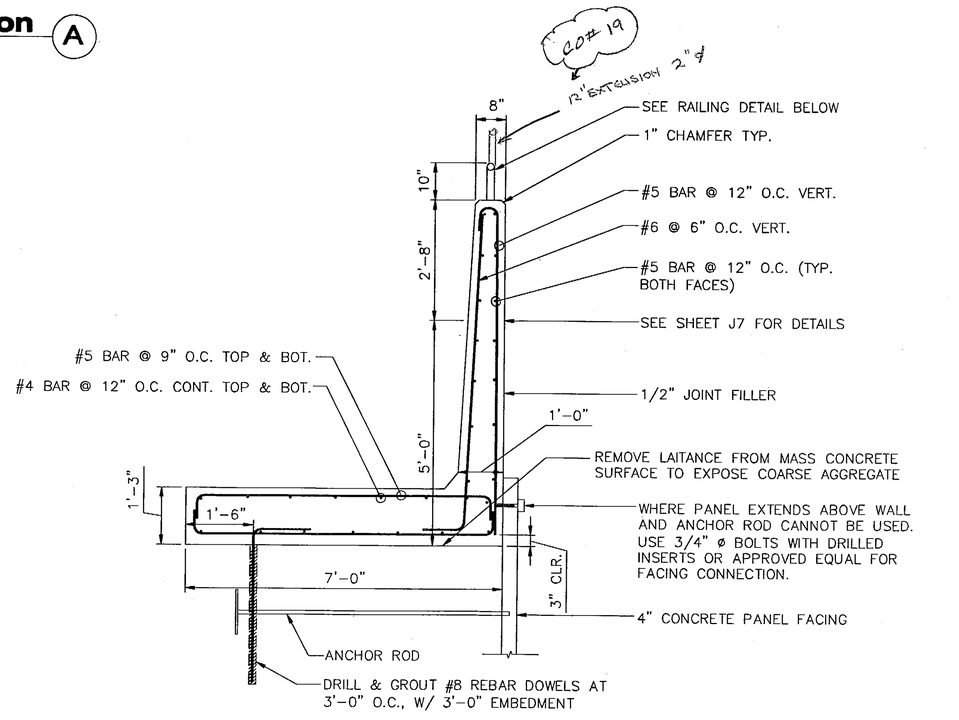
1. ADJUST TOP OF EXISTING MSE WALL #4. ADD/REMOVE REINFORCEMENT STRAPS AS NECESSARY TO BRING WALL TO FINAL GRADE.
2. OVERHANG ON EXISTING MSE WALLS MAY VARY SLIGHTLY. KEY FACING 4" INTO BARRIER ON NEW MSE WALL #2.
3. CUT REINFORCEMENT STRAPS AT THE CENTER OF THE KEY, AND BEND OUT OF THE WAY WHILE EXCAVATING, BUT DO NOT PULL THE STRAPS OUT OF THE SOIL. AFTER EXCAVATION, BEND THE REINFORCEMENT STRAPS BACK INTO PLACE AND TIE THE STRAPS INTO THE REBAR AND CAST INTO THE CONCRETE.
4. CONCRETE BARRIER, TYPE B SHALL BE CAST-IN-PLACE. PRECAST BARRIER WILL NOT BE ACCEPTED.
5. ALTERNATE DETAILS MAY BE SUBSTITUTED FOR APPROVAL.



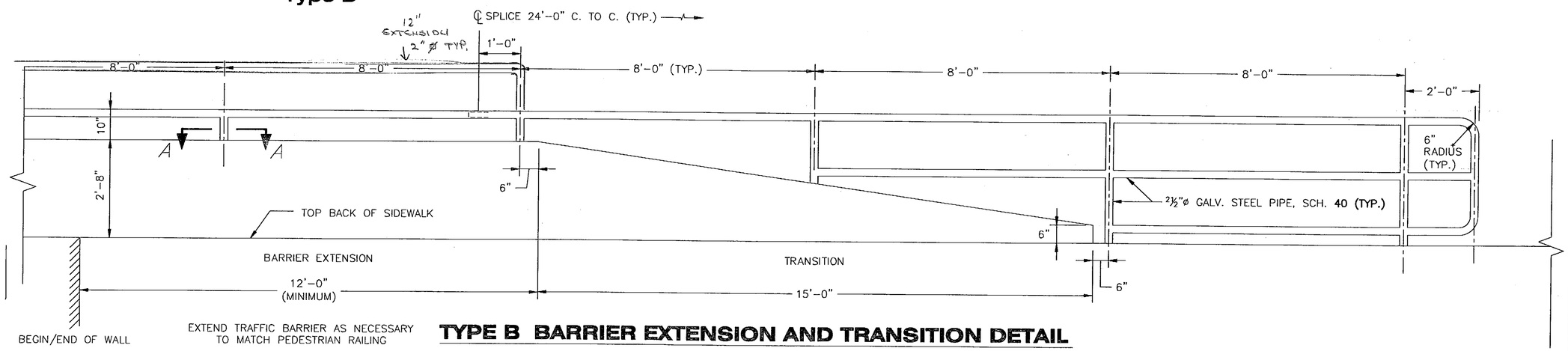
Section A



Concrete Barrier
Type B



Concrete Barrier
Type C



TYPE B BARRIER EXTENSION AND TRANSITION DETAIL

PATH: Q:\Ktn\71811A\Planset\J_RetainWalls.dwg
Mon, 06/May/02 09:36AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th — Tracy W. Moore CE-4932 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

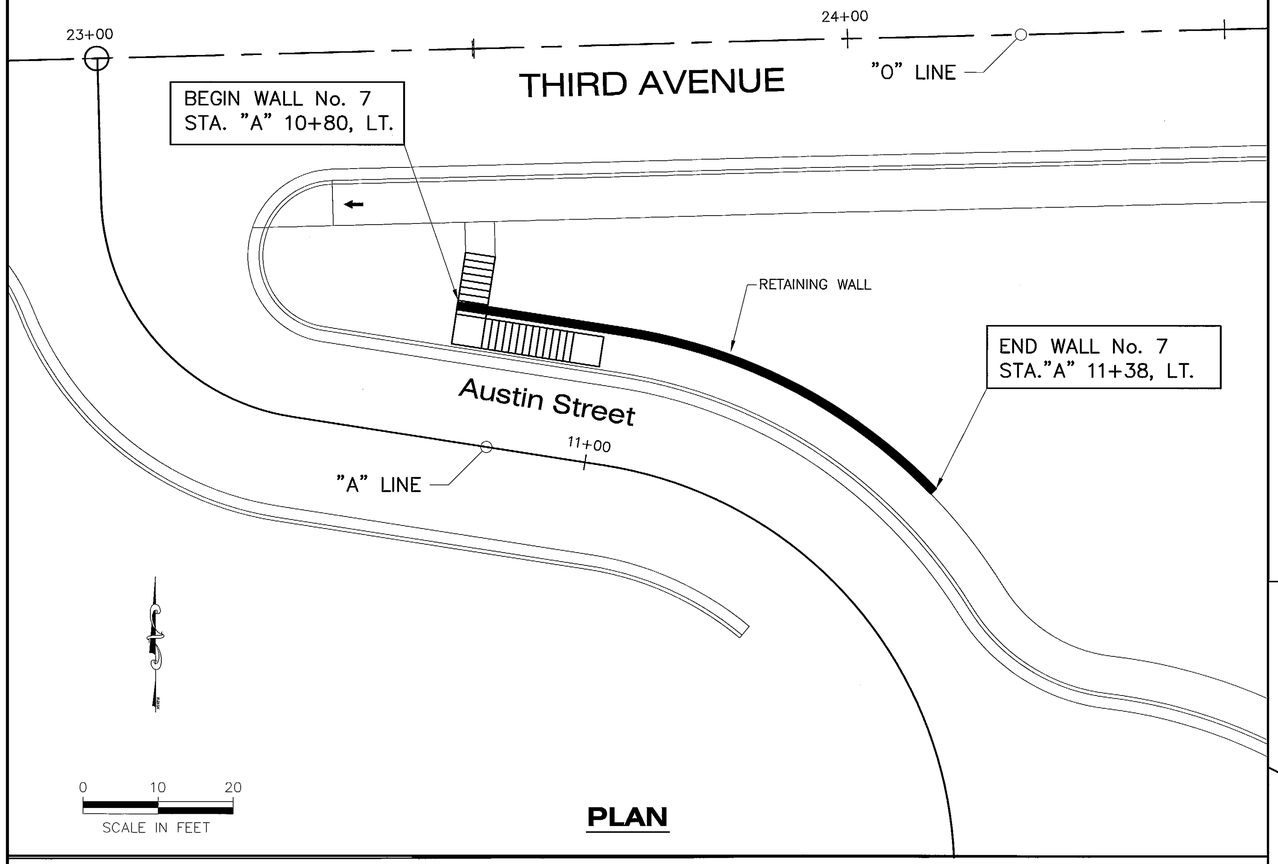
Retaining Wall Details

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

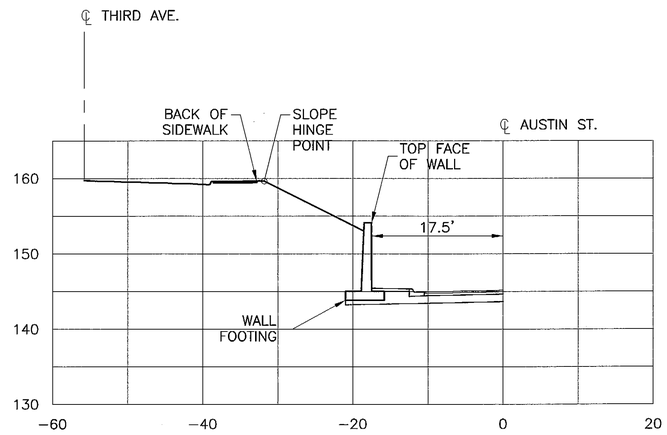
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
J6	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

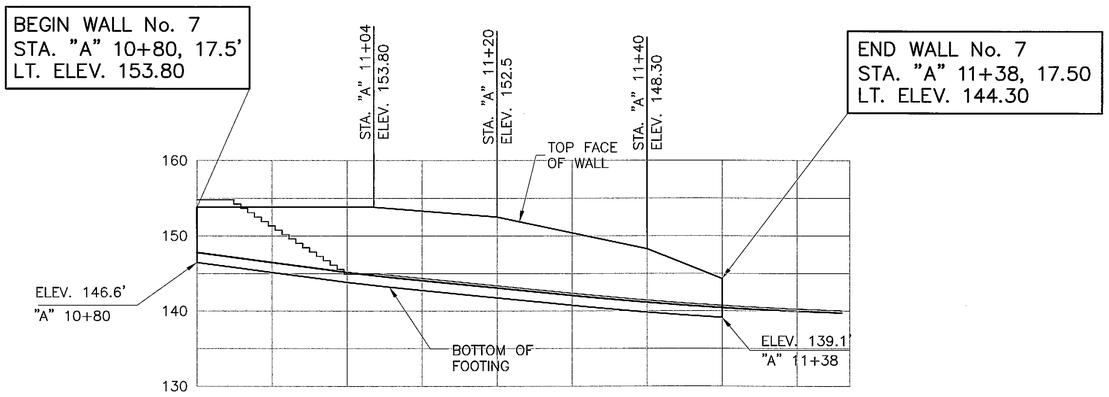
Proj. Eng _____ Date 8/1/06



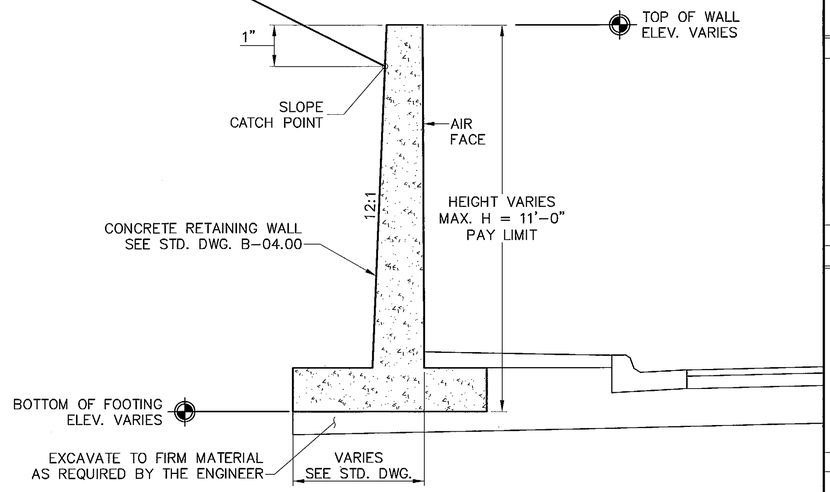
PLAN



SECTION
Sta. "A" 11+00



PROFILE



WALL SECTION

PATH:
Q:\Ktn\71811A\En\p\3rdst\REVISON\FINAL DRAF
Tue, 28/Jun/05 10:39AM rksnyder
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PLAN

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Austin Street Retaining Wall Details

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-7-05

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: C.H./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Austin Street Retaining Wall Details

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2004
SHEET NUMBER	TOTAL SHEETS
J7	146

Notes:

1. 1 ½"ø GALV. STEEL PIPE, SCH. 40 TO BE FIELD WELDED TO 2 ½"ø GALV. STEEL PIPE, SCH. 40 AFTER INSTALLATION AS SHOWN IN PROJECT PLANS.

2. PROPOSED RAILING SPLICES TO MATCH PROJECT PLAN RAILING SPLICE LOCATIONS.

3. REPAIRING GALVANIZED COATING AFTER WELDING.
   REPAIR STICKS USED TO REPAIR GALVANIZING SHALL BE ZINC–CADMIUM ALLOYS (MELTING POINT 518–527 °F), SUCH AS "REV–GALV" OR ZINC–TIN–LEAD ALLOYS (MELTING POINT 446–500 °F), SUCH AS "GALV–WELD, "ZILT" AND "GALVOVER".
   THE ZINC–TIN–LEAD ALLOYS SHALL COMPLY WITH U.S. FEDERAL SPECIFICATION O–G–93, NOVEMBER, 1949, AND CONTAIN FLUXING INGREDIENTS.

   THE PROCEDURE FOR USING REPAIR STICKS IS AS FOLLOWS:

   A. REMOVE WELDING SLAG BY CHIPPING HAMMER AND CLEAN WELD OR DAMAGED AREA BY VIGOROUS WIRE BRUSHING.

   B. PREHEAT THE REGION TO BE REPAIRED BY MEANS OF AN OXYACETYLENE TORCH OR OTHER CONVENIENT METHOD TO 600 °F. THE ALLOYS DO NOT SPREAD WELL AT LOWER TEMPERATURES.

   C. WIRE BRUSH SURFACE AGAIN.

   D. APPLY COATING BY RUBBING BAR OF THE ALLOY OVER THE HEATED SURFACE WHILE IT IS HOT ENOUGH TO MELT THE ALLOY.

   E. SPREAD THE MOLTEN ALLOY BY BRISKLY WIRE BRUSHING OR RUBBING WITH A FLAT EDGED STRIP OF STEEL OR PALETTE KNIFE.

   F. REMOVE FLUX RESIDUES BY WIPING WITH A DAMP CLOTH OR RINSING WITH WATER.

   G. BRUSH APPLY TWO COATS ZINC RICH PAINT (COLD GALVANIZE REPAIR).

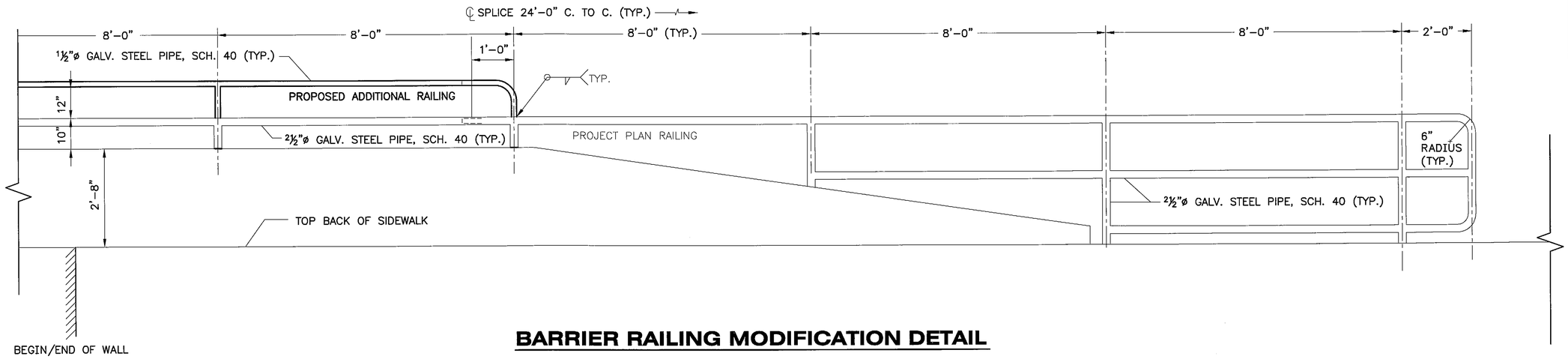
   IT IS POSSIBLE TO UTILIZE THE RESIDUAL HEAT IN THE WELD TO MELT THE REPAIR STICK, AND THE PROCEDURE FOR WELDS THAT ARE STILL HOT (600 °F OR OVER) IS:

   A. REMOVE SLAG AND WIRE BRUSH VIGOROUSLY.

   B. APPLY COATING OF ALLOY AS ABOVE AND PAINT AS PER G ABOVE AFTER COOLING.

   IN ALL CASES, THE REPAIR STICK SHOULD NOT BE APPLIED TO A SURFACE MUCH ABOVE 600 °F, BECAUSE TOO MUCH DROSS WILL BE FORMED. SOME OF THESE REPAIR COMPONENTS ARE ALSO AVAILABLE IN POWDER FORM WHICH IS APPLIED IN A SIMILAR MANNER TO THE STICKS.

   CONTRACTOR MAY OPTIONALLY ELECT TO UTILIZE METALLIZING TECHNIQUES TO SPRAY APPLY A ZINC PROTECTIVE COATING AS A SUBSTITUTE FOR ZINC STICK REPAIR TECHNIQUE. IF METALLIZING TECHNIQUE IS EMPLOYED, SURFACE PREPARATION AND APPLICATION OF ZINC COATING SHALL BE PER CURRENT AWS SPECIFICATION C2.2. ONLY "ARC–SPRAY" METALIZING METHODS WILL BE APPROVED FOR USE ON THIS PROJECT.



BARRIER RAILING MODIFICATION DETAIL

PATH:
Q:\Ktn\71811A\En\p\3rdst\REVISON\RAIL_MOD_
Thu, 06/Apr/06 10:58AM rksnyder
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Barrier Railing Modification Detail

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.3.06

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: T.M./R.S

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

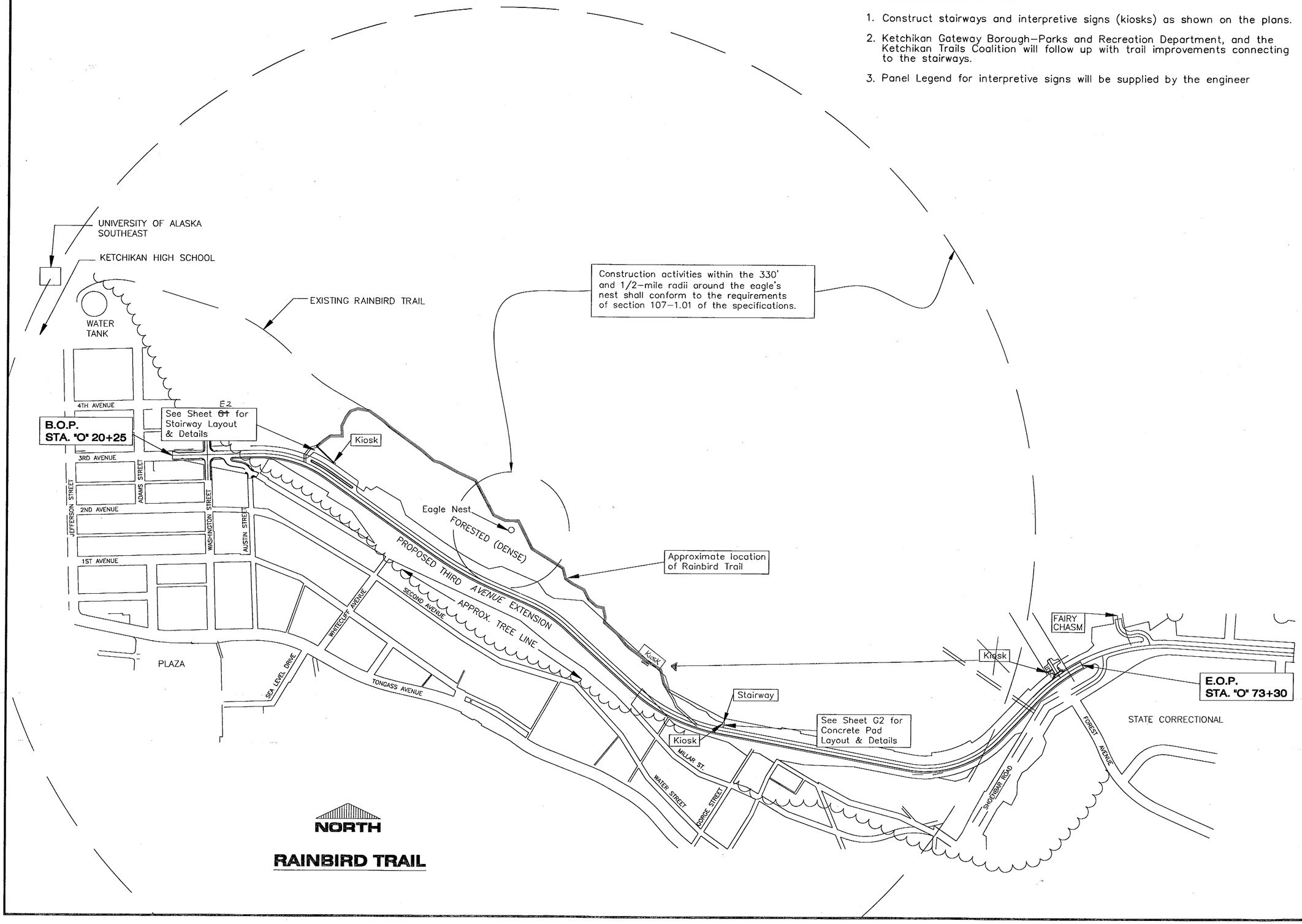
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Retaining Wall Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
J8	146

GENERAL NOTES:

1. Construct stairways and interpretive signs (kiosks) as shown on the plans.
2. Ketchikan Gateway Borough–Parks and Recreation Department, and the Ketchikan Trails Coalition will follow up with trail improvements connecting to the stairways.
3. Panel Legend for interpretive signs will be supplied by the engineer



RAINBIRD TRAIL

PATH: Q:\Ktn\71811A\Planset\K_RainbirdTrail.dwg
Mon, 06/May/02 09:38AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Rainbird Trail Layout Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

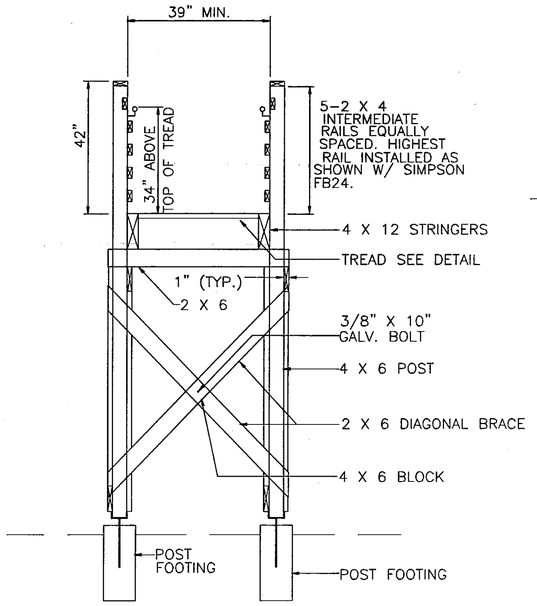
THIRD AVENUE EXTENSION PROJECT NO. 68490

Rainbird Trail Layout Plan

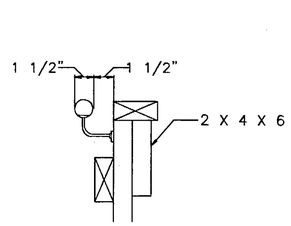
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
K1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

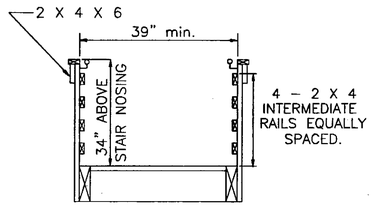
Proj. Eng _____ Date 8-31-06



LANDING SECTION



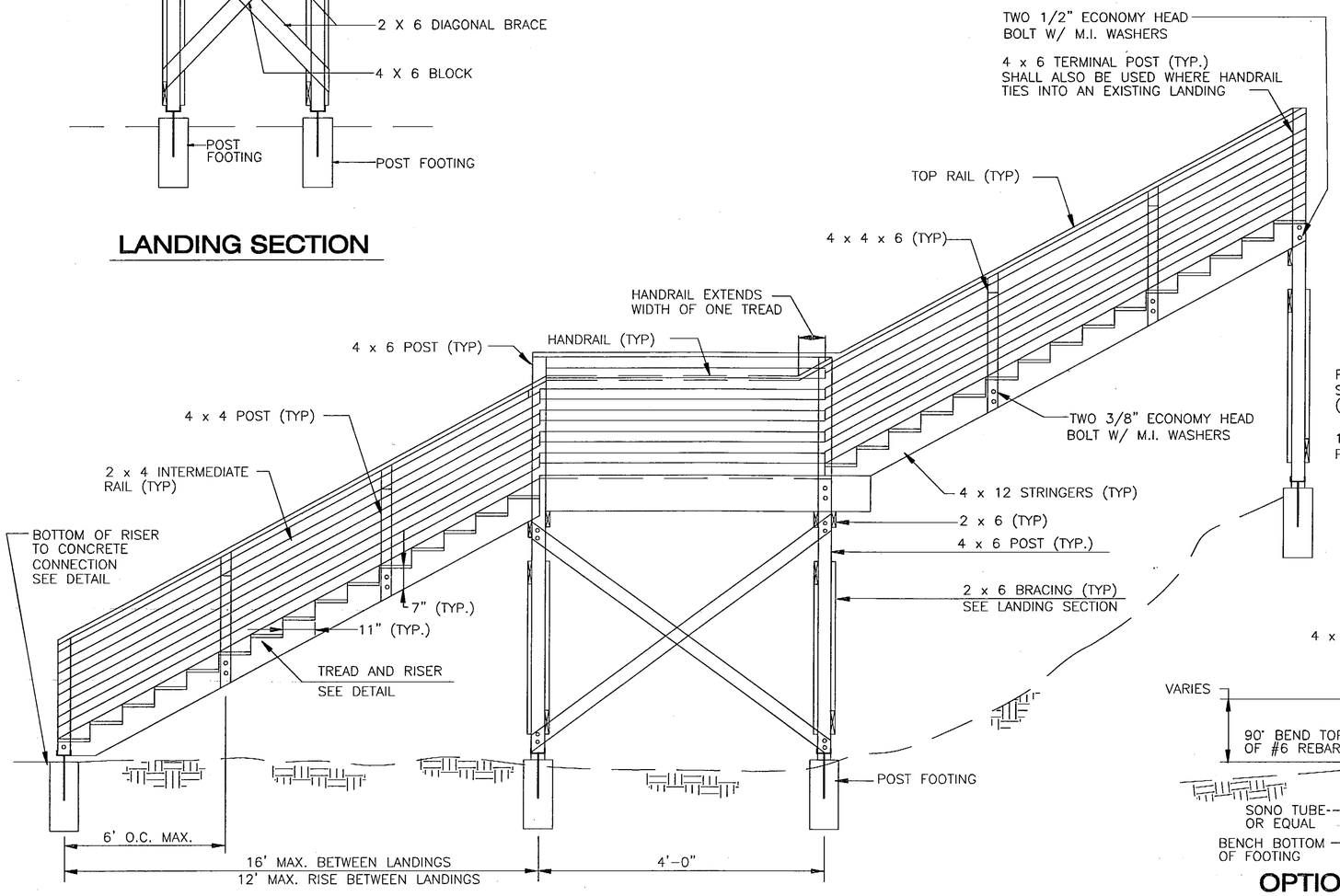
HANDRAIL DETAIL



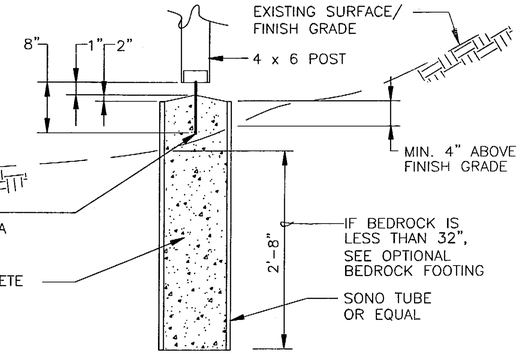
STAIRWAY SECTION

NOTES:

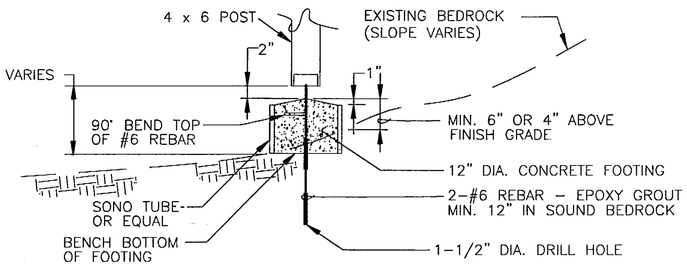
1. STAIRWAY AND LANDING TREAD SHALL BE STEEL GRATING 1" X 3/16" BEARING BARS AND 1/4" CROSS BARS, RYERSON 19W4, OR EQUAL.
2. POST BASES SHALL BE GALVANIZED, SIMPSON EPB 44A OR EQUAL
3. DIAGONAL BRACING TO INTERIOR SUPPORT 1/2" X 6" LAG SCREWS (2) EACH
   TREADS TO STRINGERS 3/8" X 3" LAG SCREWS (2) EACH SIDE
   4 X 6 POST TO STRINGER 1/2" X 8" BOLTS (2) EACH
   4 X 6 TO POST BASE Simpson Strong Tie, Co. EPB44A
   ALL OTHER CONNECTIONS SHALL BE MADE WITH GALVANIZED FASTENINGS IN ACCORDANCE WITH THE UNIFORM BUILDING CODE. WASHERS SHALL BE USED ON ALL BOLTS NOT BEARING ON METAL.
4. ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-A-153.
5. ALL WOOD SHALL BE PRESSURE TREATED CONFORMING TO SECTION 506.
6. FOOTINGS SHALL BE ON UNDISTURBED EARTH AND A MINIMUM OF 32" BELOW THE SURFACE, EXCEPT BEDROCK FOOTINGS.
7. STEEL TUBE RAILING SHALL BE HOT-DIP GALVANIZED AND CONFORM TO ASTM-A-53-GRADE B. ALL JOINTS SHALL BE MADE WITH CONCEALED BUTT JOINT CONNECTORS, OR WELDED AND REGALVANIZED IN CONFORMANCE WITH AASHTO M 36.
8. DIAGONAL CROSS BRACING NOT REQUIRED IF POST HEIGHTS IS LESS THAN 4-FEET. DIAGONAL CROSS BRACING IS REQUIRED IF POST HEIGHT IS BETWEEN 4 AND 8 FEET. TWO DIAGONAL CROSS BRACING REQUIRED IF POST HEIGHT IS OVER 8-FEET.



TYPICAL STAIRWAY PROFILE



STAIRWAY POST FOOTING



OPTIONAL BEDROCK FOOTING

PATH: Q:\Ktn\71811A\Planset\K_RainbirdTrail.dwg
Tue, 07/May/02 01:18PM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Stairway Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

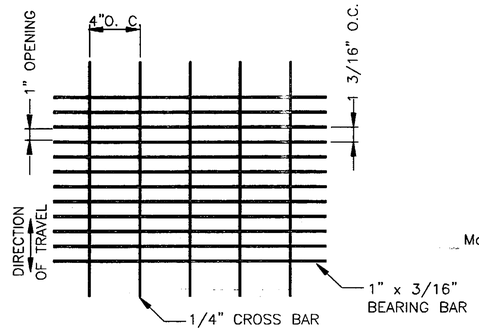
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Stairway Details

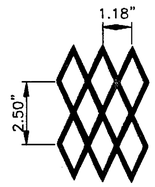
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
K2	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-1-02

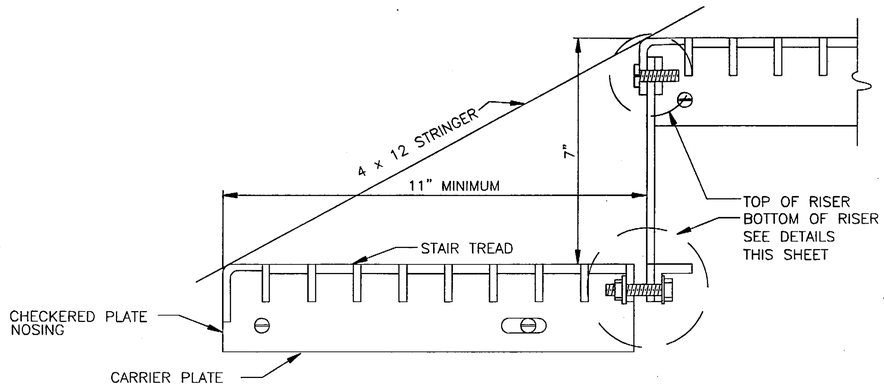


STAIR TREAD

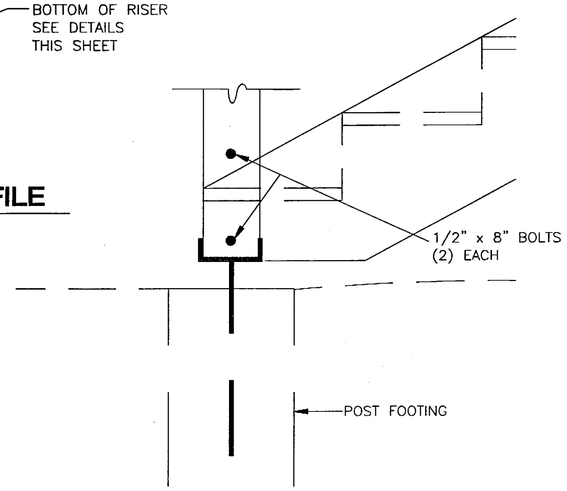


McNICHOLS 1-1/2 #10 S OR EQUAL

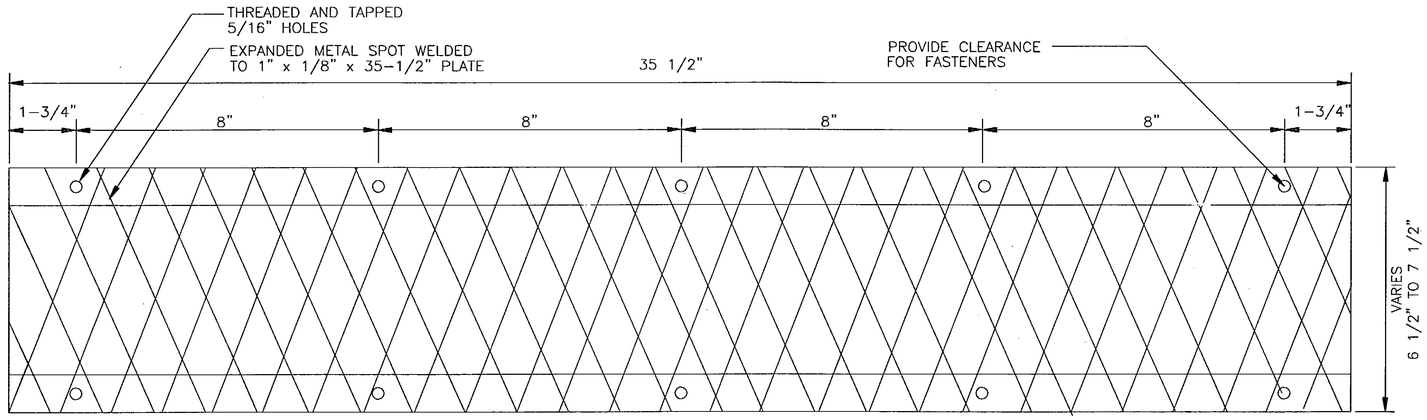
EXPANDED METAL RISER



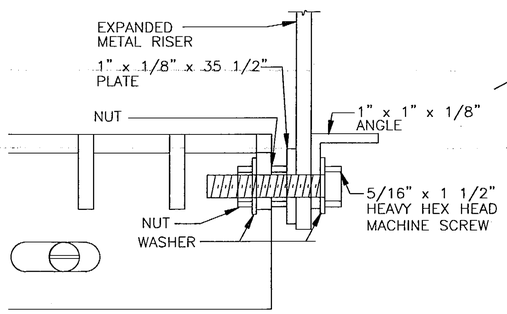
TREAD AND RISER PROFILE



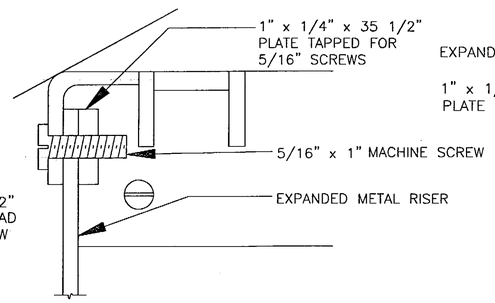
BOTTOM OF STAIRWAY PROFILE



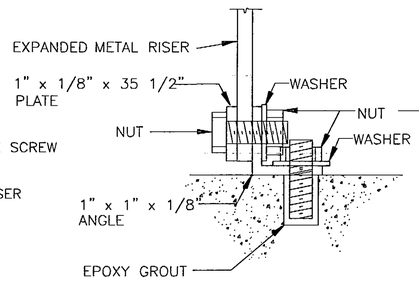
ADJUSTABLE HEIGHT RISER



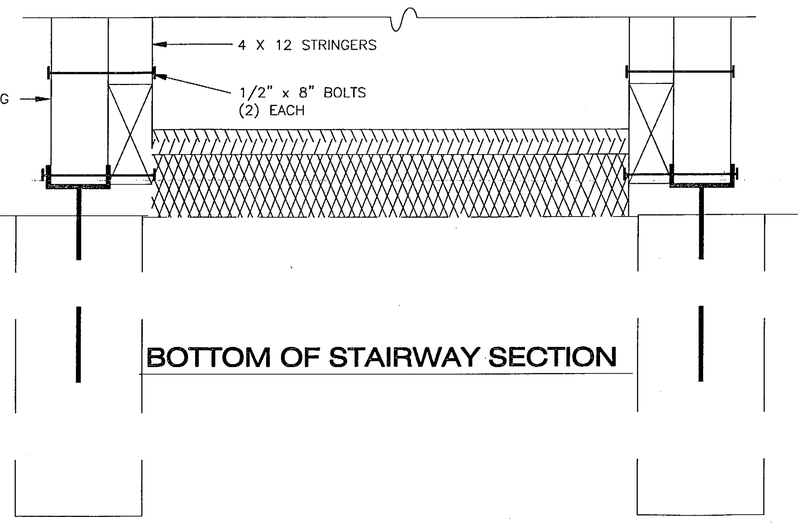
TYPICAL BOTTOM OF RISER



TYPICAL TOP OF RISER



BOTTOM RISER TO CONCRETE CONNECTION



BOTTOM OF STAIRWAY SECTION

PATH:
Q:\Ktn\71811A\Planset\K_RainbirdTrail.dwg
Tue, 07/May/02 02:33PM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Stairway Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

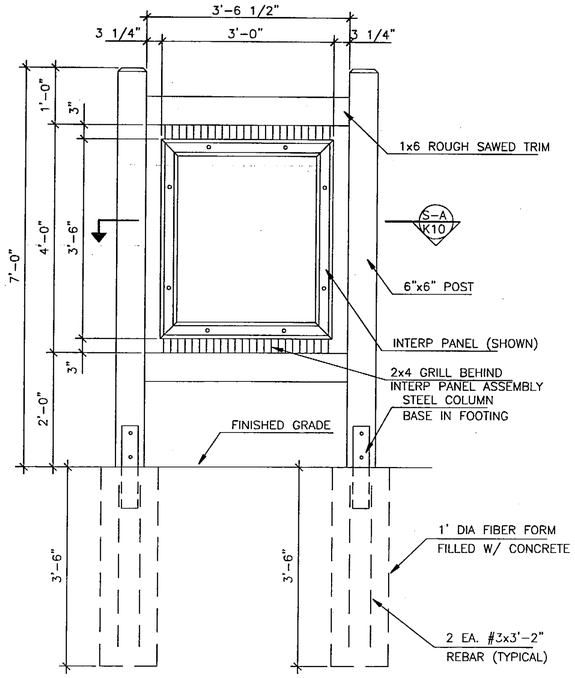
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Stairway Details

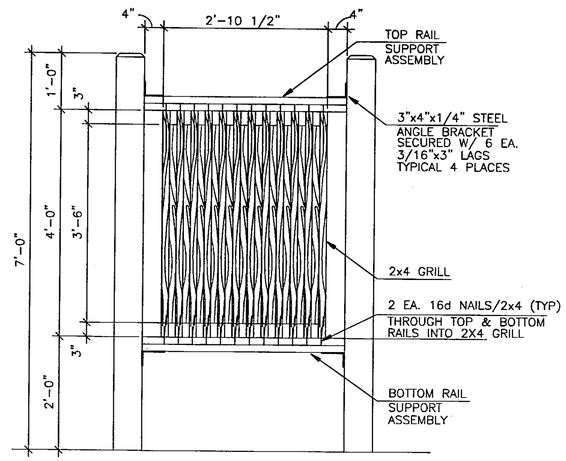
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
K3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

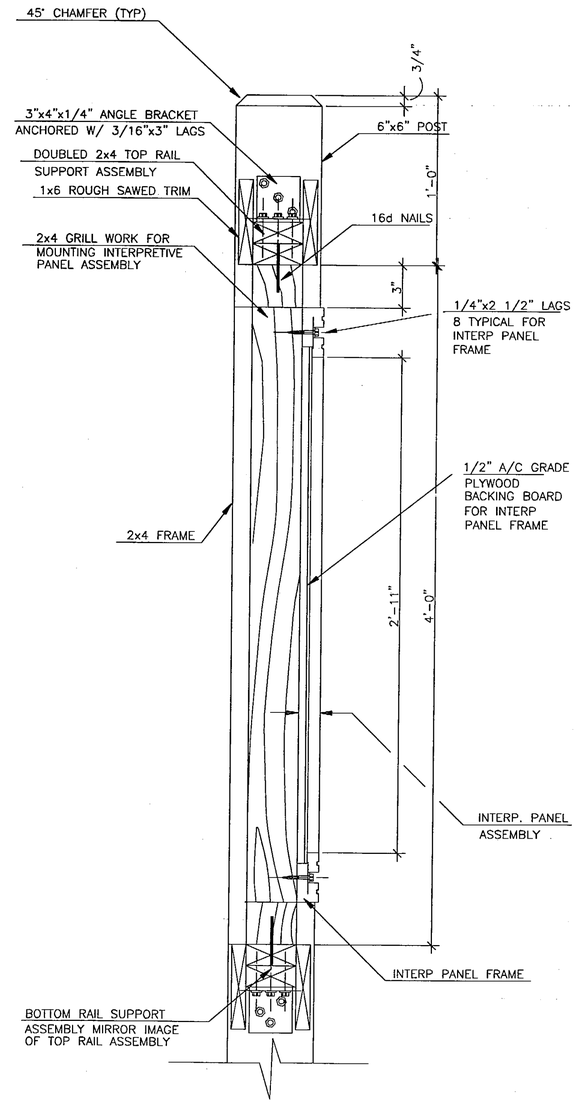
Proj. Eng. _____ Date 10-31-06



FULL DETAIL

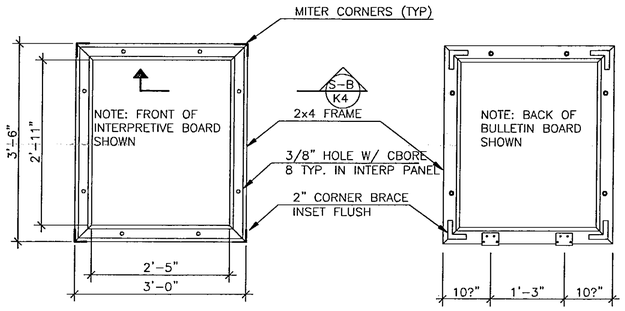


SIGN PANEL & TRIM
NOT SHOWN

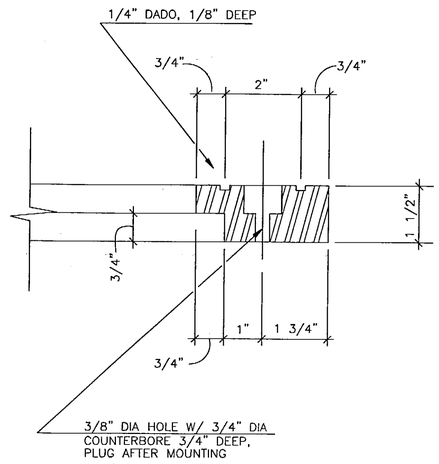


SECTION A

SIGN SUPPORT AND FOUNDATION DETAIL (3 REQUIRED) 1



INTERPRETIVE PANEL FRAME DETAIL A



SECTION B

PATH:
Q:\Ktn\71811A\Planset\K_RainbirdTrail.dwg
Tue, 07/May/02 02:33PM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Kiosk Detail

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Kiosk Detail

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
K4	146

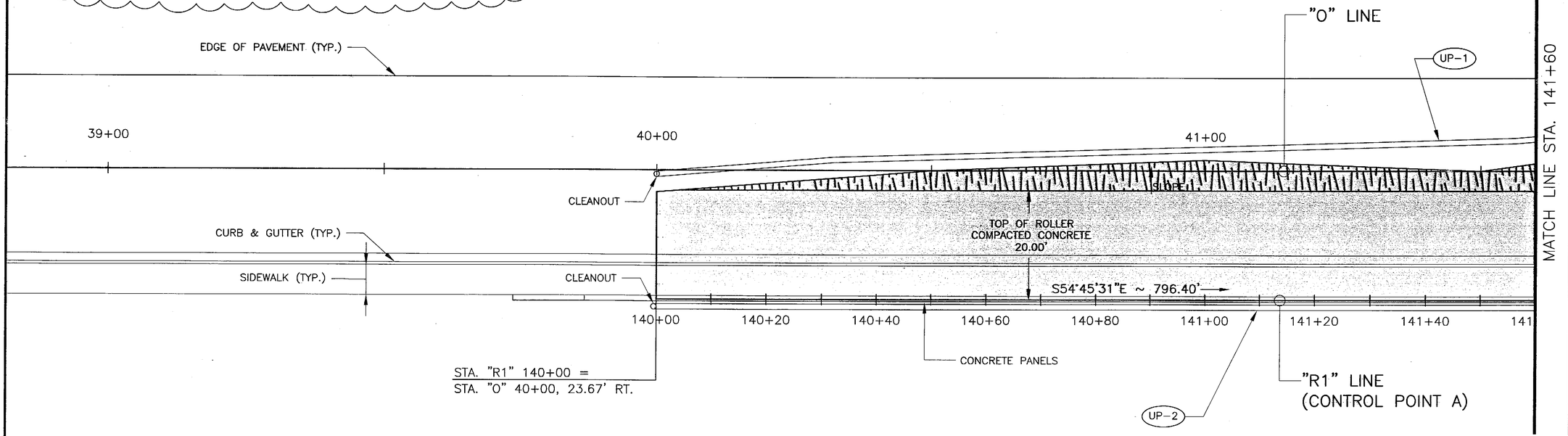
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 5-31-06

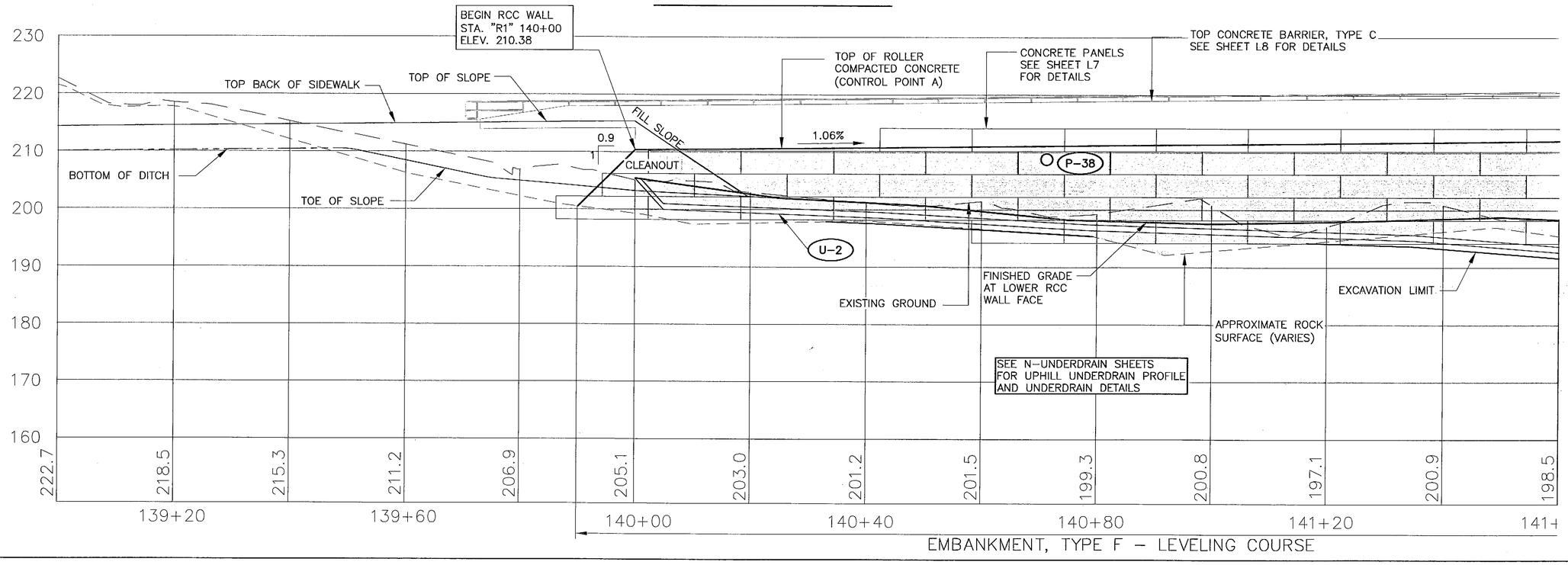
CONTROL POINT A – SHOWN ON TYPICAL SECTIONS IS DEFINED IN THE PLAN VIEW BY ALIGNMENT "R1" FOR THE LOWER RCC WALL, AND IS DEFINED IN THE PROFILE VIEW AS TOP OF ROLLER COMPACTED CONCRETE.

CONTROL POINT B – SHOWN ON THE TYPICAL SECTIONS IS THE APPROXIMATE INTERSECTING POINT BETWEEN THE ROLLER COMPACTED CONCRETE AND THE ROCK SURFACE.

PLAN VIEW



PROFILE VIEW



PATH: O:\Ktn\71811A\Planset\L1-9_Roller.dwg
Mon, 06/May/02 10:42AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Roller Compacted Concrete Wall Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K. / M.L.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Roller Compacted Concrete Wall Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
L1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

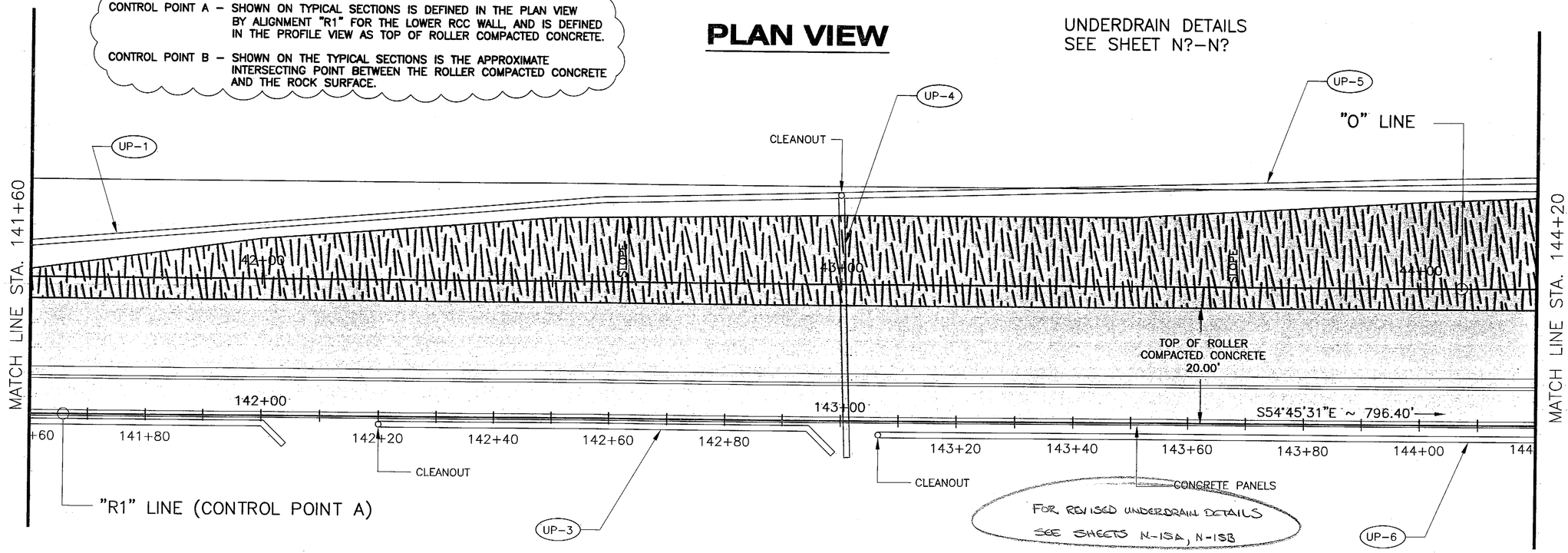
Proj. Eng _____ Date 10-3-06

CONTROL POINT A – SHOWN ON TYPICAL SECTIONS IS DEFINED IN THE PLAN VIEW BY ALIGNMENT "R1" FOR THE LOWER RCC WALL, AND IS DEFINED IN THE PROFILE VIEW AS TOP OF ROLLER COMPACTED CONCRETE.

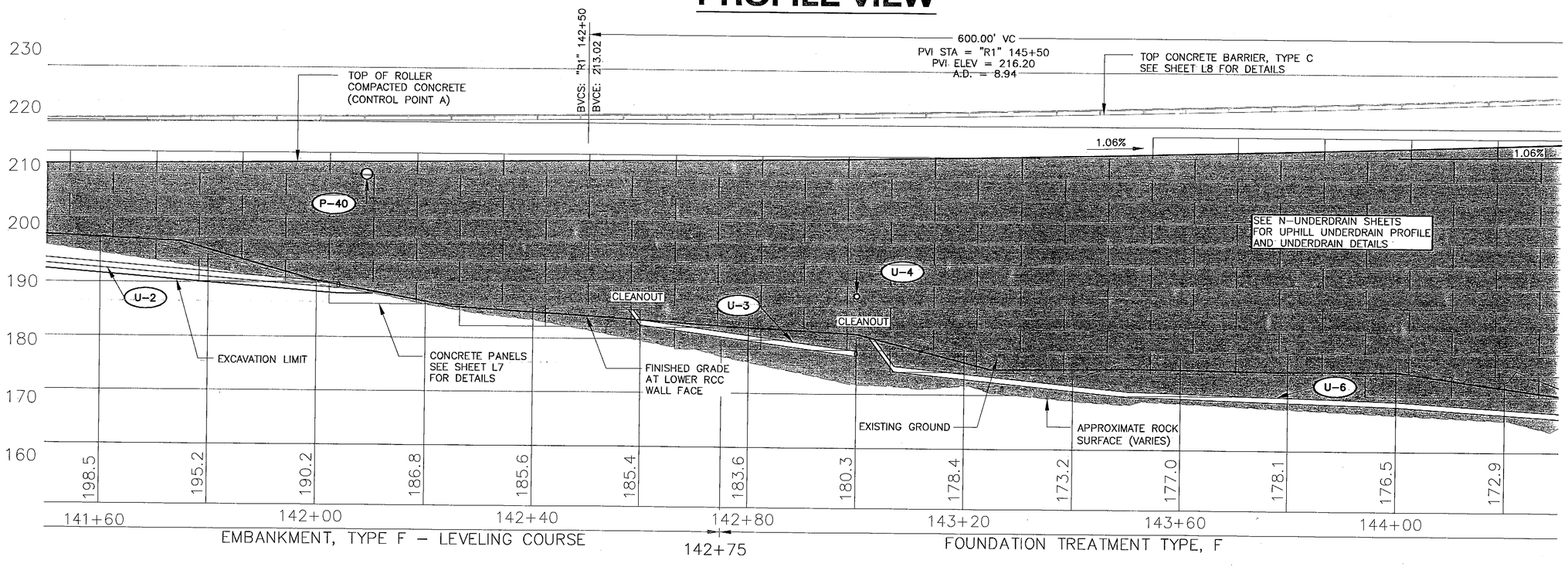
CONTROL POINT B – SHOWN ON THE TYPICAL SECTIONS IS THE APPROXIMATE INTERSECTING POINT BETWEEN THE ROLLER COMPACTED CONCRETE AND THE ROCK SURFACE.

PLAN VIEW

UNDERDRAIN DETAILS
SEE SHEET N?–N?



PROFILE VIEW



PATH:
Q:\Ktn\71811A\Planset\L1-9_Roller.dwg
Mon, 06/May/02 10:42AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Roller Compacted Concrete Wall Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K. / M.L.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Roller Compacted Concrete Wall Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
L2	146

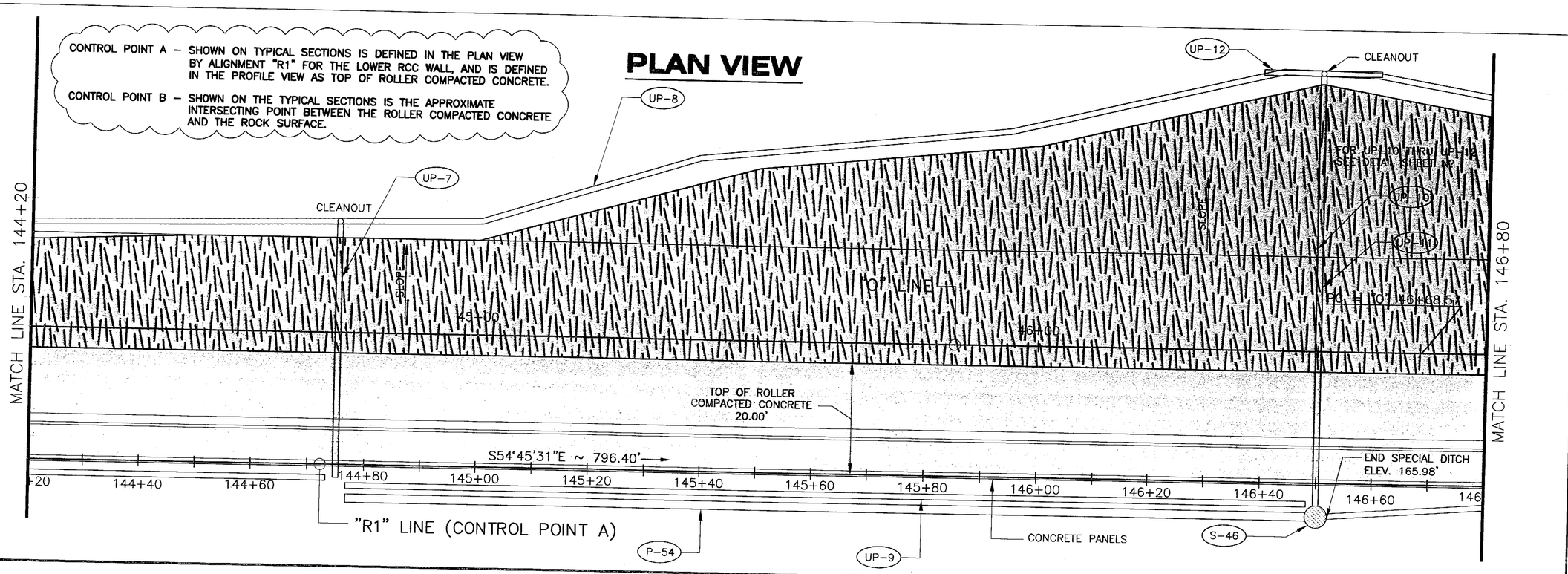
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 8.9.06

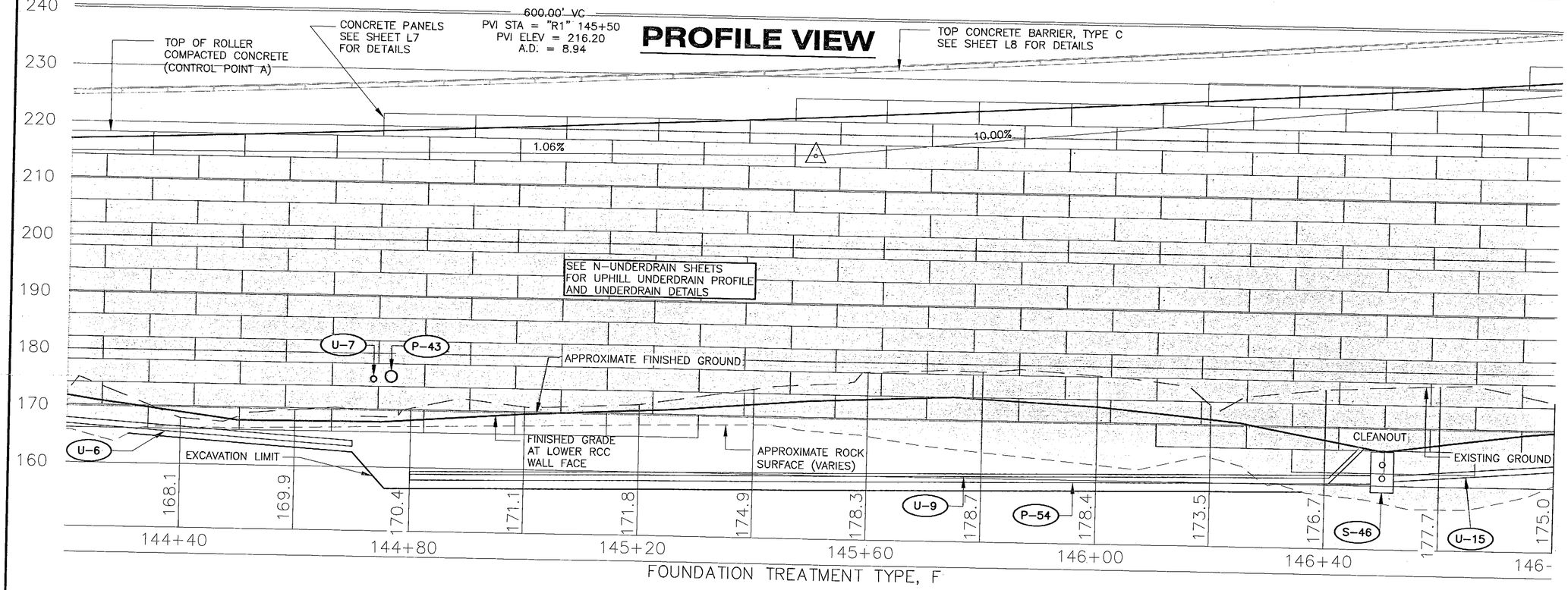
CONTROL POINT A – SHOWN ON TYPICAL SECTIONS IS DEFINED IN THE PLAN VIEW BY ALIGNMENT "R1" FOR THE LOWER RCC WALL, AND IS DEFINED IN THE PROFILE VIEW AS TOP OF ROLLER COMPACTED CONCRETE.

CONTROL POINT B – SHOWN ON THE TYPICAL SECTIONS IS THE APPROXIMATE INTERSECTING POINT BETWEEN THE ROLLER COMPACTED CONCRETE AND THE ROCK SURFACE.

PLAN VIEW



PROFILE VIEW



FOUNDATION TREATMENT TYPE, F

PATH: O:\Ktn\71811A\Planset\L1-9_Roller.dwg
Mon, 06/May/02 10:42AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Roller Compacted Concrete Wall Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K. / M.L.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

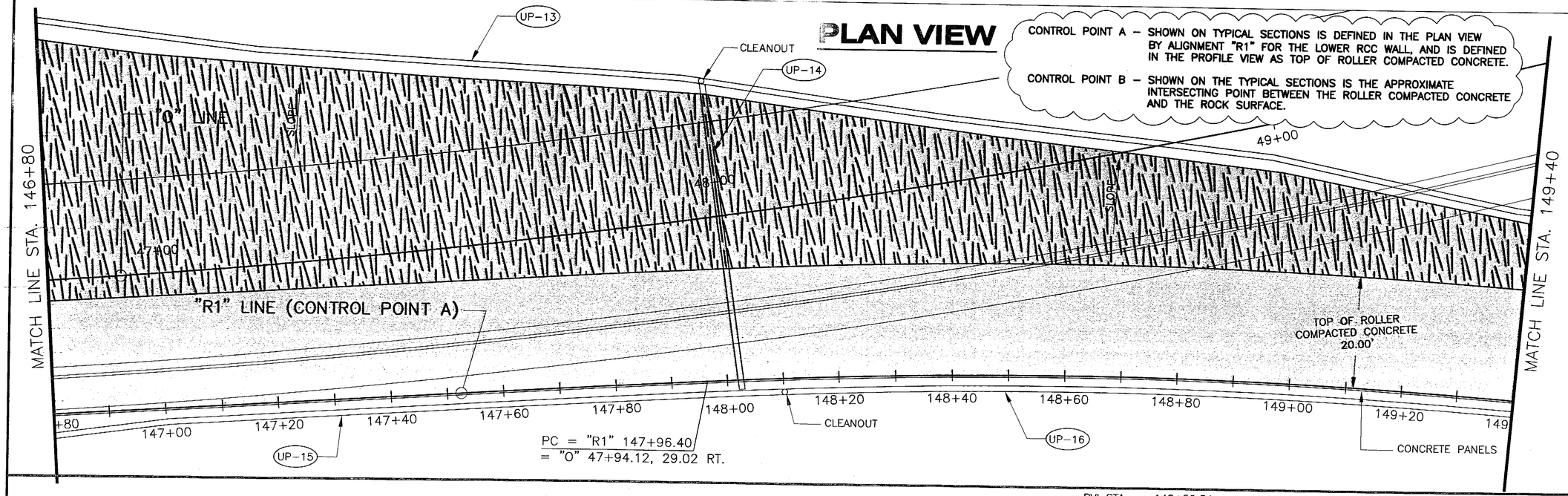
Roller Compacted Concrete Wall Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
L3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06

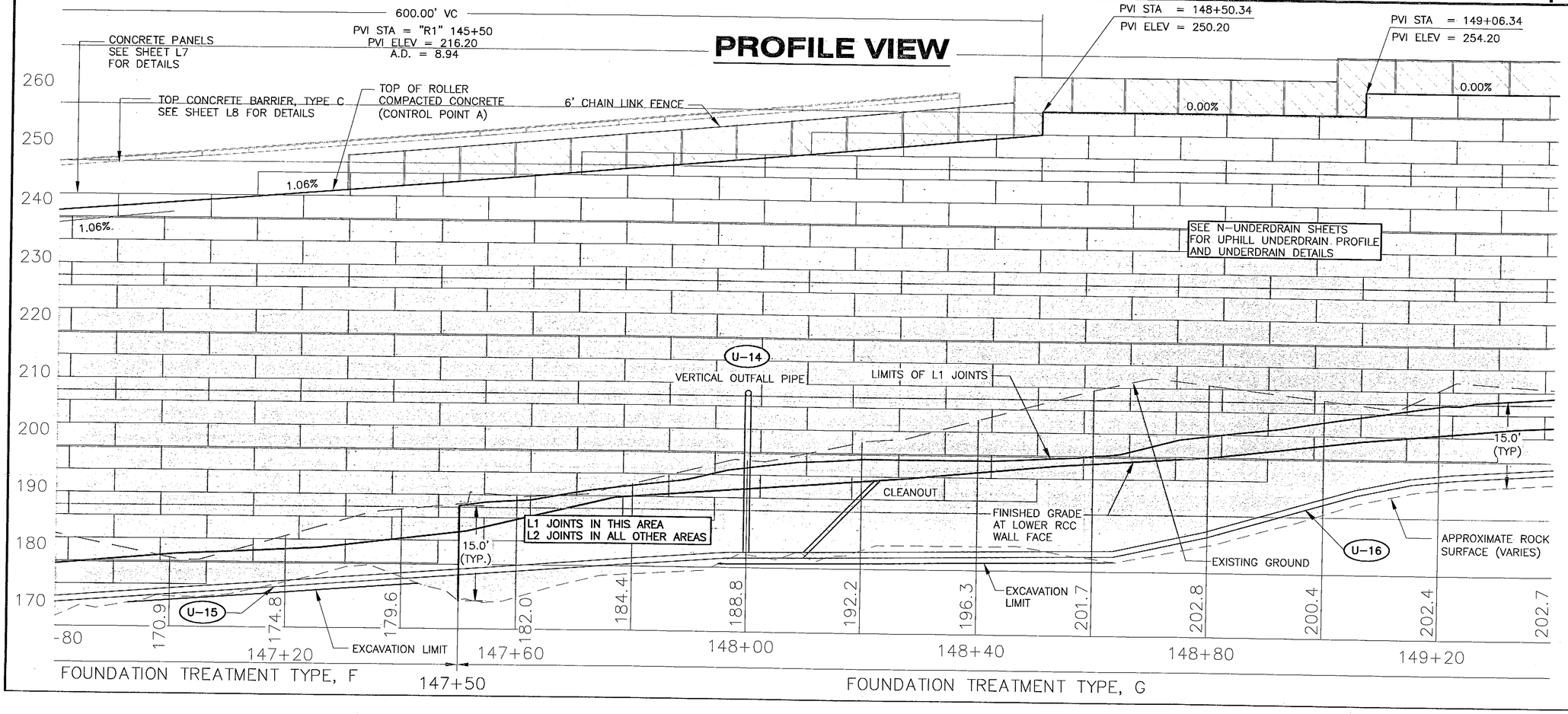
PLAN VIEW



CONTROL POINT A – SHOWN ON TYPICAL SECTIONS IS DEFINED IN THE PLAN VIEW BY ALIGNMENT "R1" FOR THE LOWER RCC WALL, AND IS DEFINED IN THE PROFILE VIEW AS TOP OF ROLLER COMPACTED CONCRETE.

CONTROL POINT B – SHOWN ON THE TYPICAL SECTIONS IS THE APPROXIMATE INTERSECTING POINT BETWEEN THE ROLLER COMPACTED CONCRETE AND THE ROCK SURFACE.

PROFILE VIEW



PATH: Q:\Ktn\71811A\Planset\L1-9_Roller.dwg
Mon, 06/May/02 10:42AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Roller Compacted Concrete Wall Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K. / M.L.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

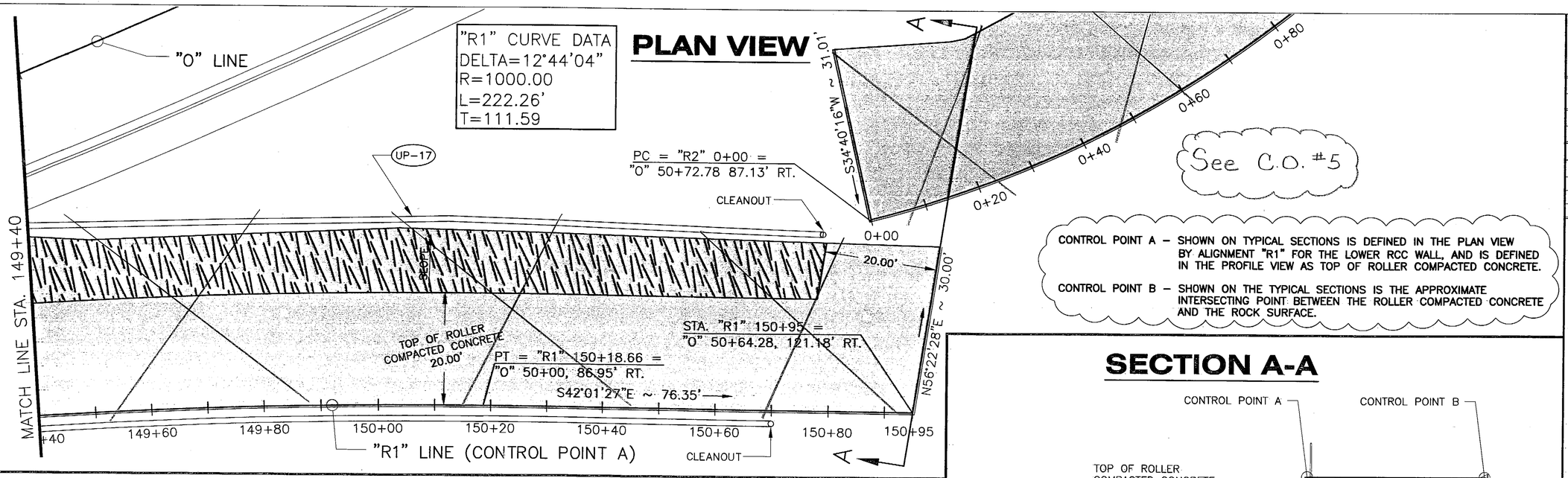
Roller Compacted Concrete Wall Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
L4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 9.4.06

PLAN VIEW

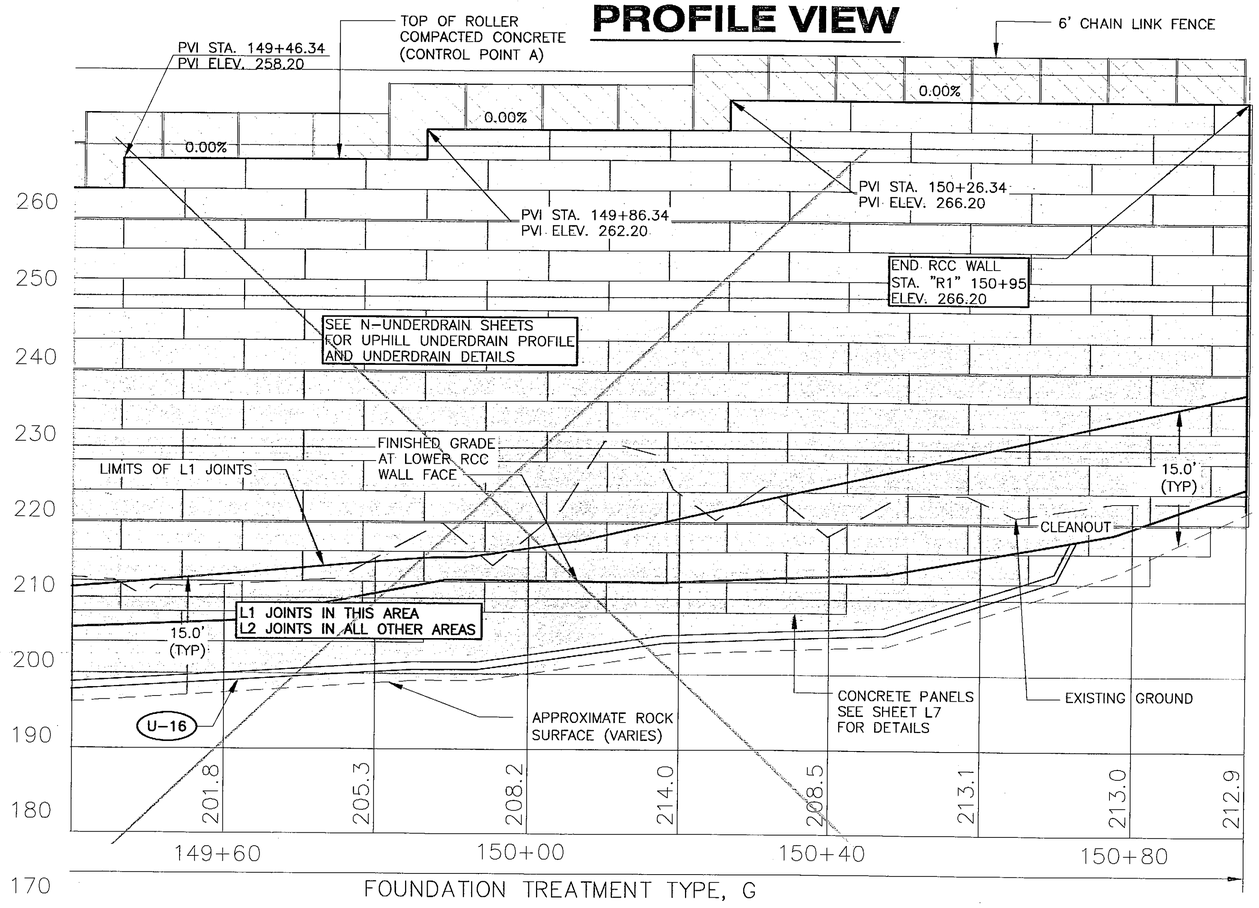


See C.O. #5

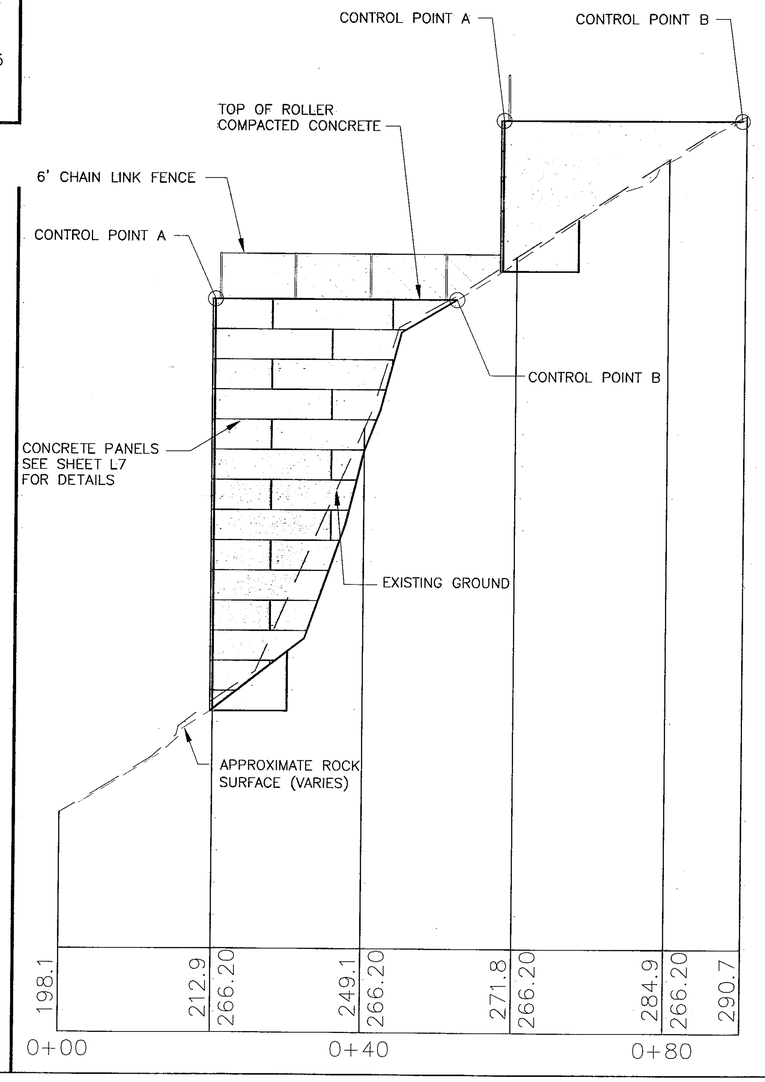
CONTROL POINT A – SHOWN ON TYPICAL SECTIONS IS DEFINED IN THE PLAN VIEW BY ALIGNMENT "R1" FOR THE LOWER RCC WALL, AND IS DEFINED IN THE PROFILE VIEW AS TOP OF ROLLER COMPACTED CONCRETE.

CONTROL POINT B – SHOWN ON THE TYPICAL SECTIONS IS THE APPROXIMATE INTERSECTING POINT BETWEEN THE ROLLER COMPACTED CONCRETE AND THE ROCK SURFACE.

PROFILE VIEW



SECTION A-A



PATH: Q:\Ktn\71811A\Planset\L1-9_Roller.dwg
Mon, 06/May/02 10:41AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Roller Compacted Concrete Wall Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K. / M.L.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Roller Compacted Concrete Wall Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
L5	146

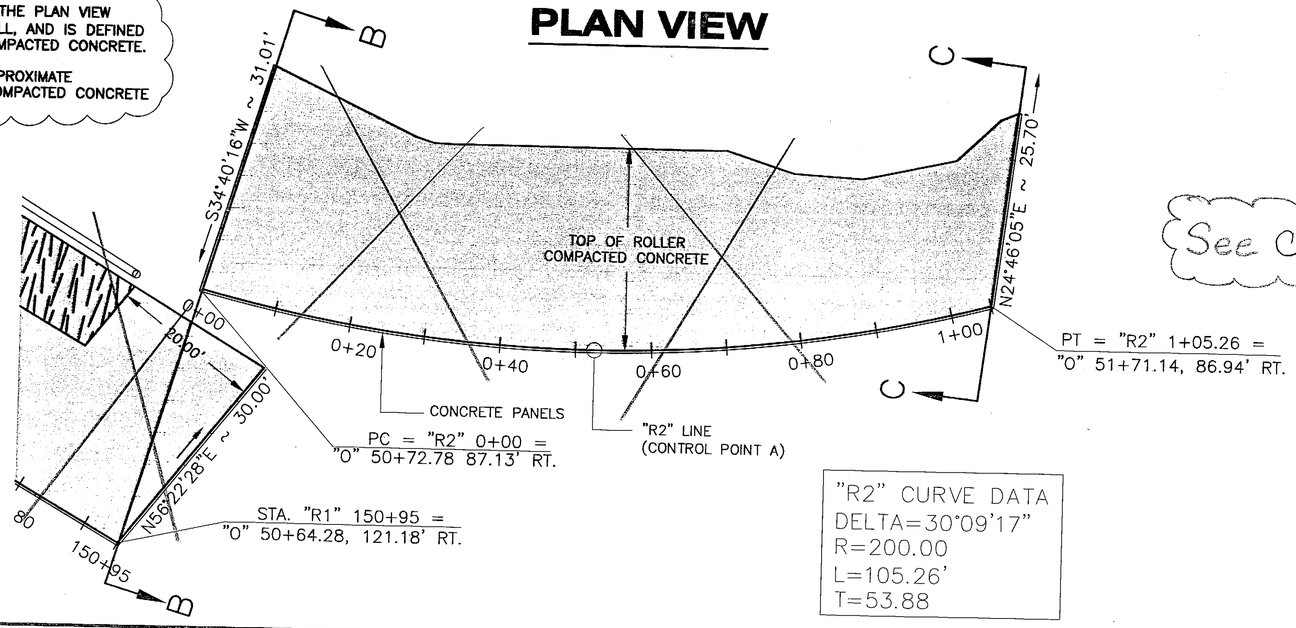
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 6/24

CONTROL POINT A – SHOWN ON TYPICAL SECTIONS IS DEFINED IN THE PLAN VIEW BY ALIGNMENT "R2" FOR THE UPPER RCC WALL, AND IS DEFINED IN THE PROFILE VIEW AS TOP OF ROLLER COMPACTED CONCRETE.

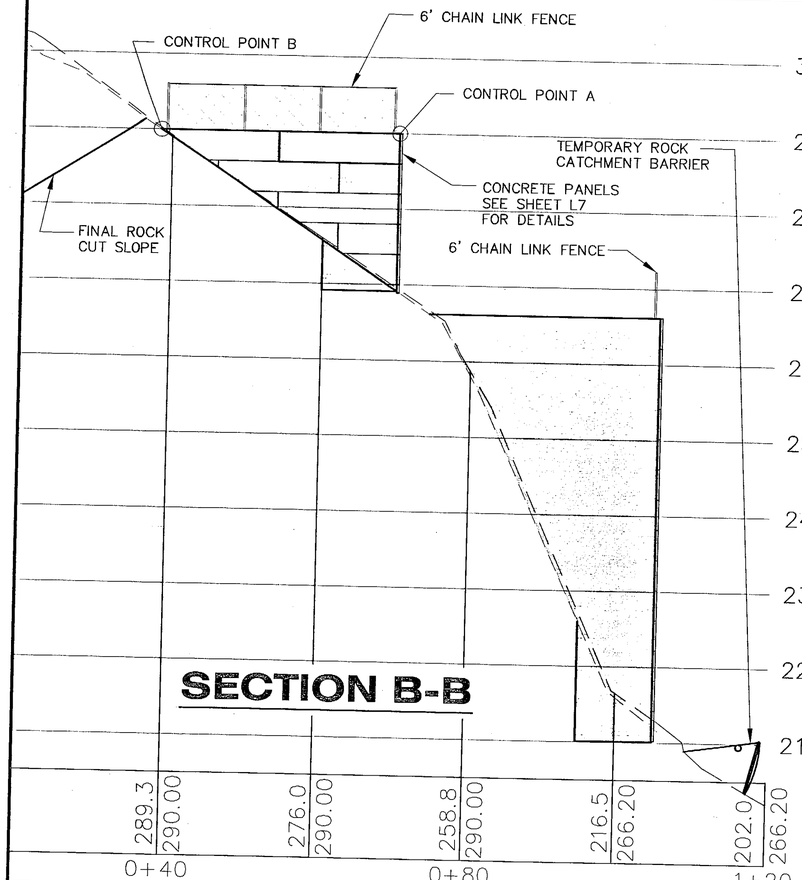
CONTROL POINT B – SHOWN ON THE TYPICAL SECTIONS IS THE APPROXIMATE INTERSECTING POINT BETWEEN THE ROLLER COMPACTED CONCRETE AND THE ROCK SURFACE.

PLAN VIEW

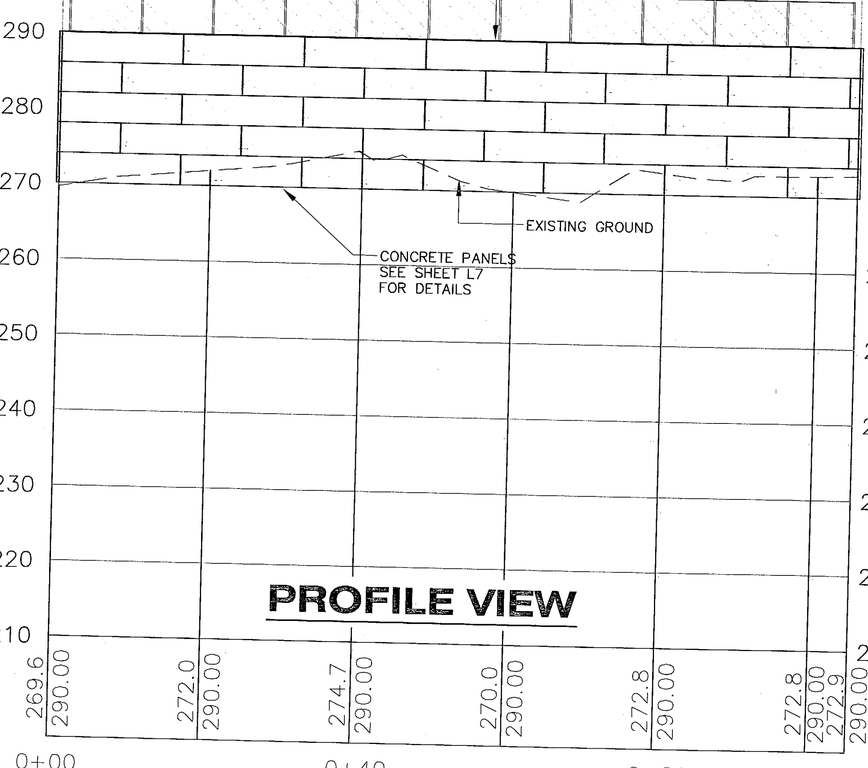


See C.O. #5

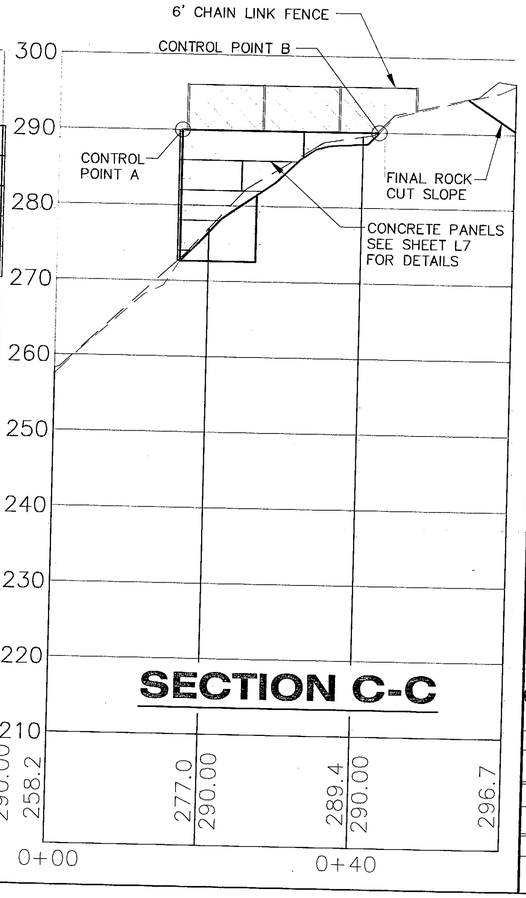
"R2" CURVE DATA
DELTA=30°09'17"
R=200.00
L=105.26'
T=53.88



SECTION B-B



PROFILE VIEW



SECTION C-C

PATH: Q:\Ktn\71811A\Planset\L1-9_Roller.dwg
Mon, 06/May/02 10:42AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Roller Compacted Concrete Wall Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K. / M.L.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

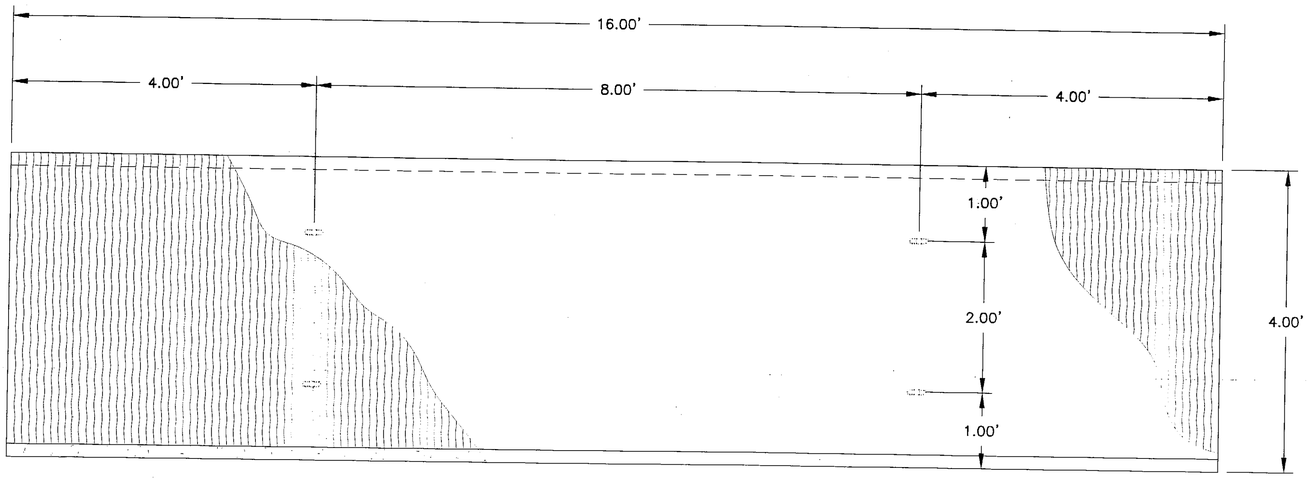
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Roller Compacted Concrete Wall Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
L6	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

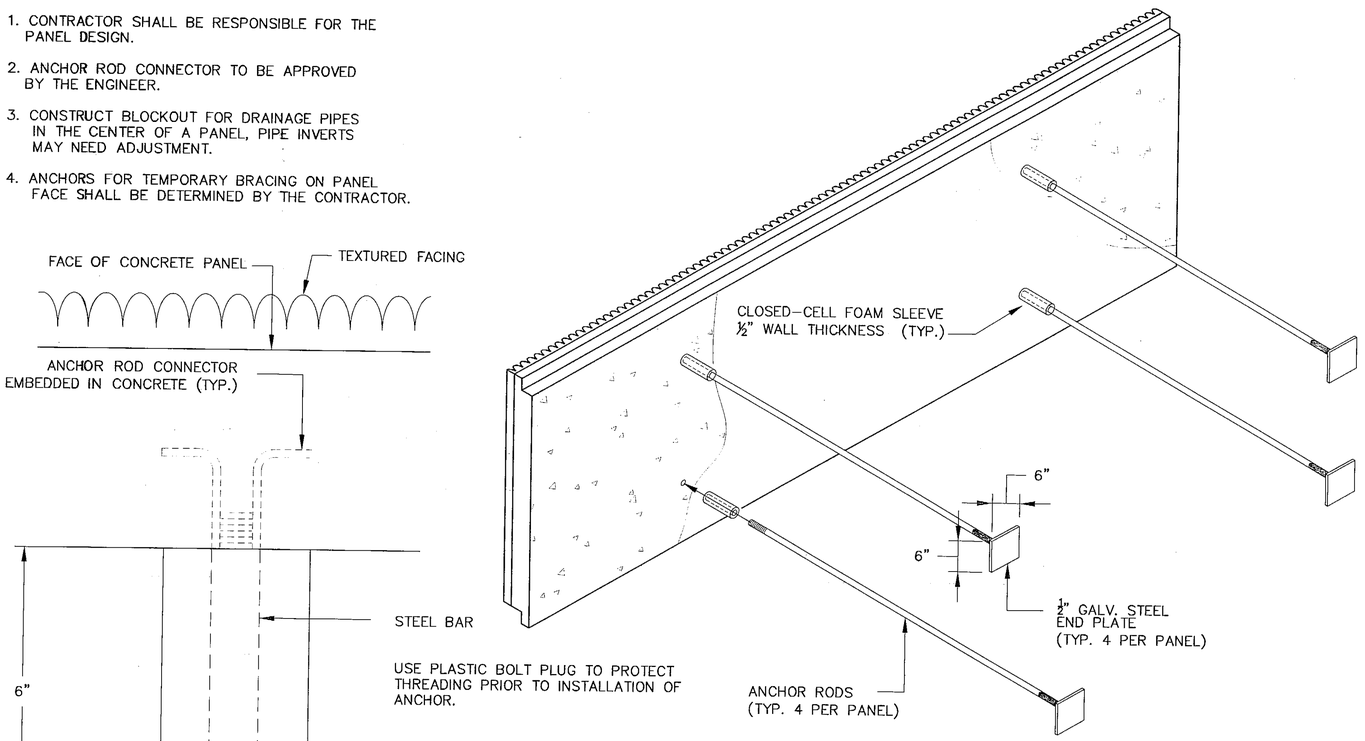
Proj. Eng _____ Date 07-06



Front View

Notes:

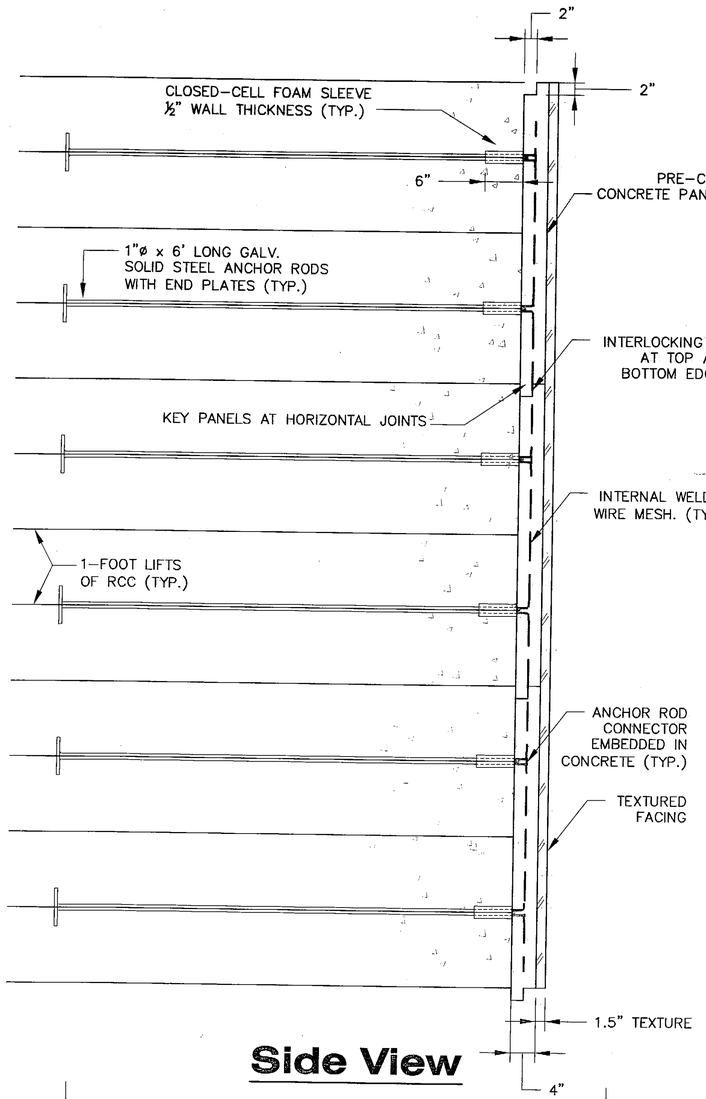
1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PANEL DESIGN.
2. ANCHOR ROD CONNECTOR TO BE APPROVED BY THE ENGINEER.
3. CONSTRUCT BLOCKOUT FOR DRAINAGE PIPES IN THE CENTER OF A PANEL, PIPE INVERTS MAY NEED ADJUSTMENT.
4. ANCHORS FOR TEMPORARY BRACING ON PANEL FACE SHALL BE DETERMINED BY THE CONTRACTOR.



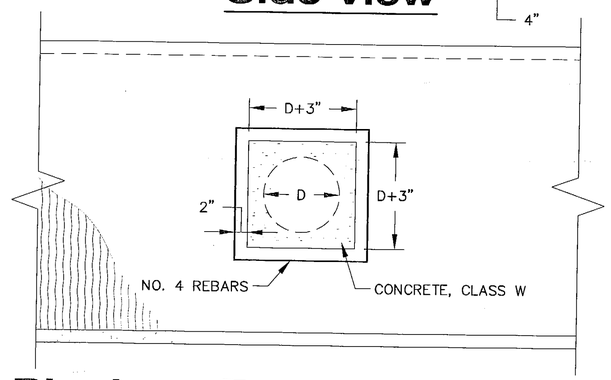
Rod Connector Detail

Isometric View

NOTE: DO NOT SCALE FROM DRAWING. USE DIMENSIONS.



Side View



Blockout For Drainage Pipe

PATH: Q:\Ktn\71811A\Planset\L1-9_Roller.dwg
Mon, 06/May/02 10:42AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Precast Concrete Panel Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: M. LIMBAUGH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

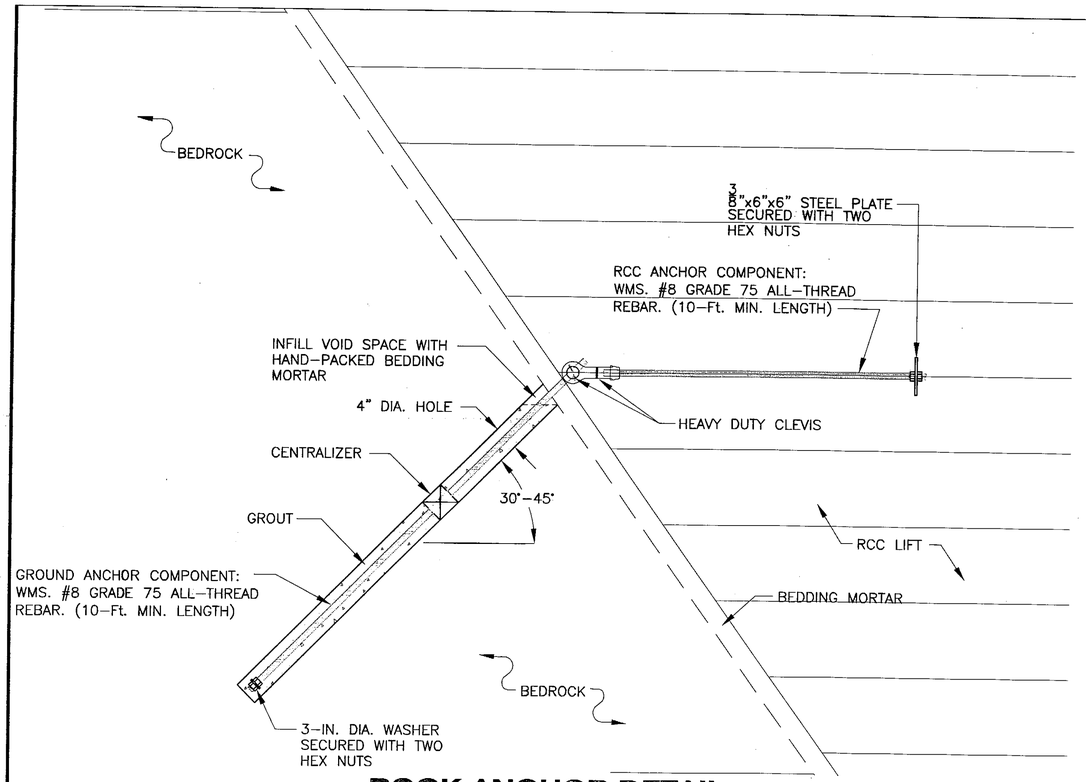
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Precast Concrete Panel Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
L7	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06



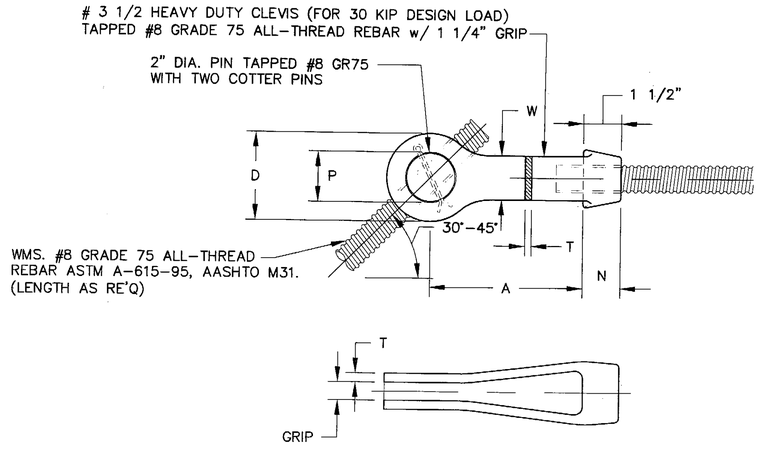
ROCK ANCHOR DETAIL
STA. 49+00 To 50+75

Notes:

1. INSTALL TWO ROWS AT 10ft SPACING AND AS HIGH AS POSSIBLE ON THE ROCK SLOPE WITHIN THE RCC WALL TO MAXIMIZE THE ADDED RESISTANCE TO TOPPLING.

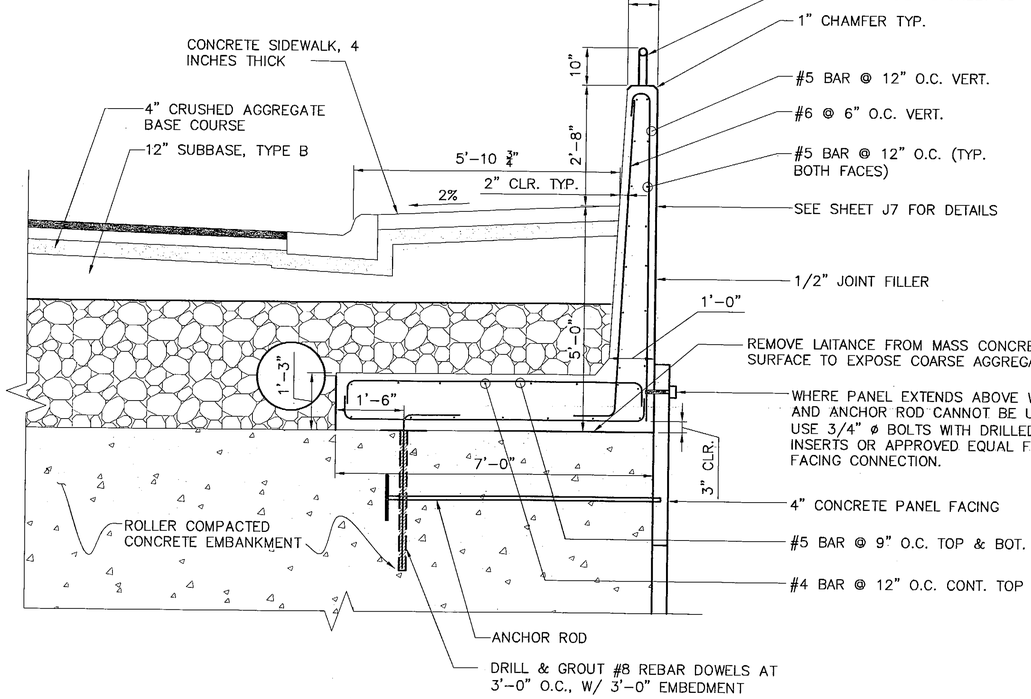
CONTROL POINT B

STATION	OFFSET RIGHT	OFFSET LEFT	STATION	OFFSET RIGHT	OFFSET LEFT
40+00	3.26		45+50		31.57
40+25	1.43		45+75		34.03
40+50		0.46	46+00		36.40
40+75		2.17	46+25		42.09
41+00		1.89	46+50		48.30
41+25		1.70	46+75		44.97
41+50		1.00	47+00		38.93
41+75		3.86	47+25		33.33
42+00		7.30	47+50		29.46
42+25		10.93	47+75		23.64
42+50		11.27	48+00		18.59
42+75		12.14	48+25		12.92
43+00		11.64	48+50		6.07
43+25		10.06	48+75	1.57	
43+50		11.98	49+00	11.01	
43+75		12.90	49+25	24.48	
44+00		14.54	49+50	34.22	
44+25		17.23	49+75	42.64	
44+50		17.01	50+00	55.36	
44+75		16.09	50+25	68.10	
45+00		17.05	50+50	82.78	
45+25		18.34			



CLEVIS NO.	D	N	U MAX.	W	TOLERANCE	A	P MAX.	MAX. WORKING LOAD Kips.	Wgt. Each Lbs.
3 1/2	3 1/2	1 1/2	1 1/2	1 3/4	1/2 + 1/16 - 1/16	6	2	18	6

STANDARD CLEVIS DETAIL



CONCRETE BARRIER TYPE C

PATH: Q:\Ktn\71811A\Planset\L1-9_Roller.dwg
Mon, 06/May/02 10:42AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Roller Compacted Concrete Wall Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: M. LIMBAUGH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490
Roller Compacted Concrete Wall Details

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

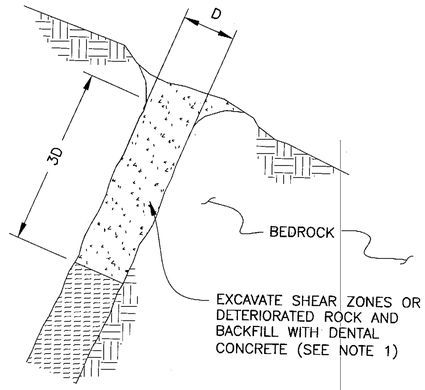
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
L8	146

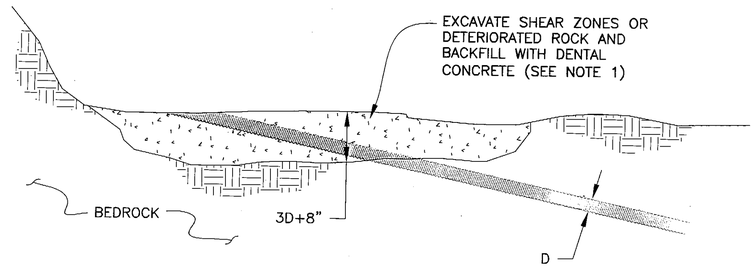
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10306

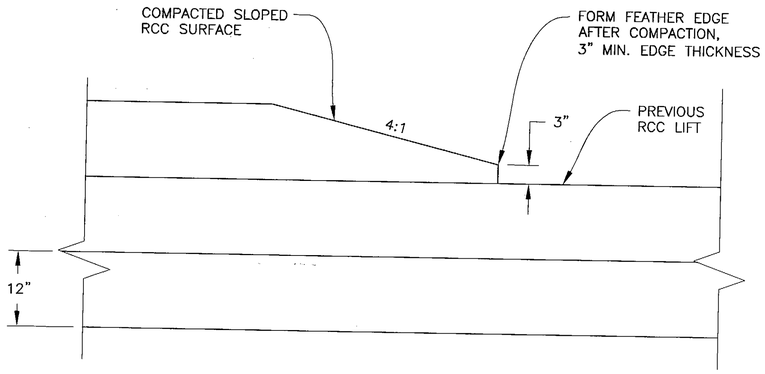
FOUNDATION TREATMENT PROCEDURES ON ROCK SURFACES

1. SLOPING BEDROCK SURFACES SHALL BE PREPARED BY A COMBINATION OF ROCK EXCAVATION AND DENTAL CONCRETE TO ACHIEVE A SMOOTHNESS AND UNIFORMITY GENERALLY SUITABLE FOR PLACEMENT OF ROLLER COMPACTED CONCRETE.
2. DENTAL CONCRETE SHALL BE PLACED ON THE FOUNDATION AT LOCATIONS DETERMINED BY THE ENGINEER.
3. ALL TREATMENT DIMENSIONS ARE GIVEN AS GUIDELINES AND ARE SUBJECT TO CHANGE AS REQUIRED BY THE ENGINEER.

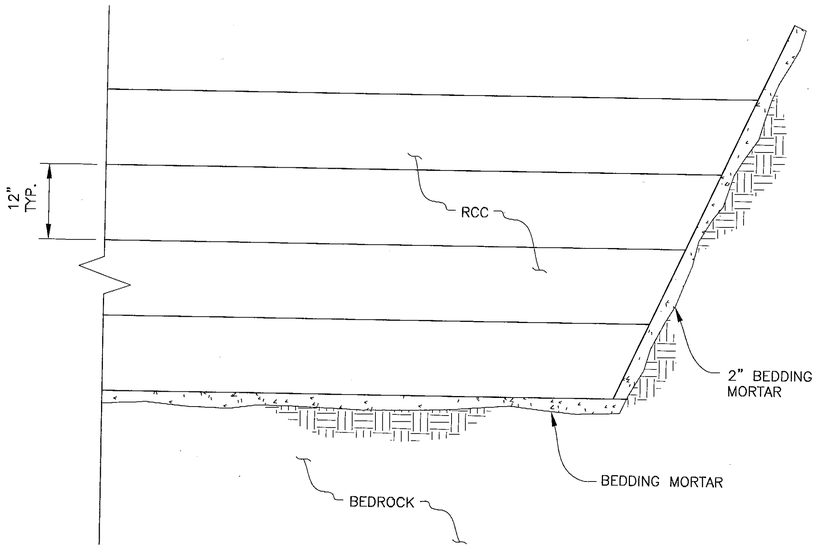




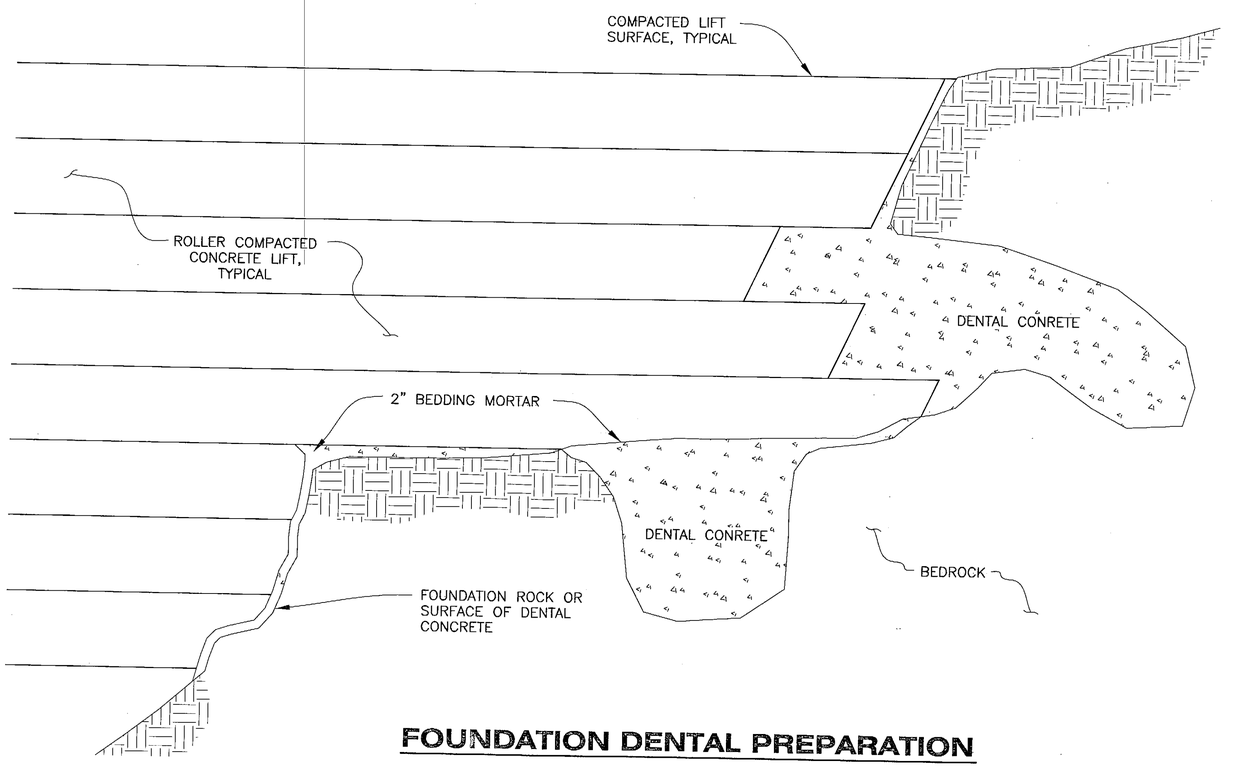
TREATMENT OF SHEAR OR DETERIORATED ROCK ZONES



TYPICAL EDGE JOINT TREATMENT



BEDDING MORTAR - ABUTMENTS AND SLOPES



FOUNDATION DENTAL PREPARATION

PATH: Q:\Ktn\71811A\Planset\L1-9_Roller.dwg
Mon, 06/May/02 10:43AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Foundation Treatment Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: M. LIMBAUGH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

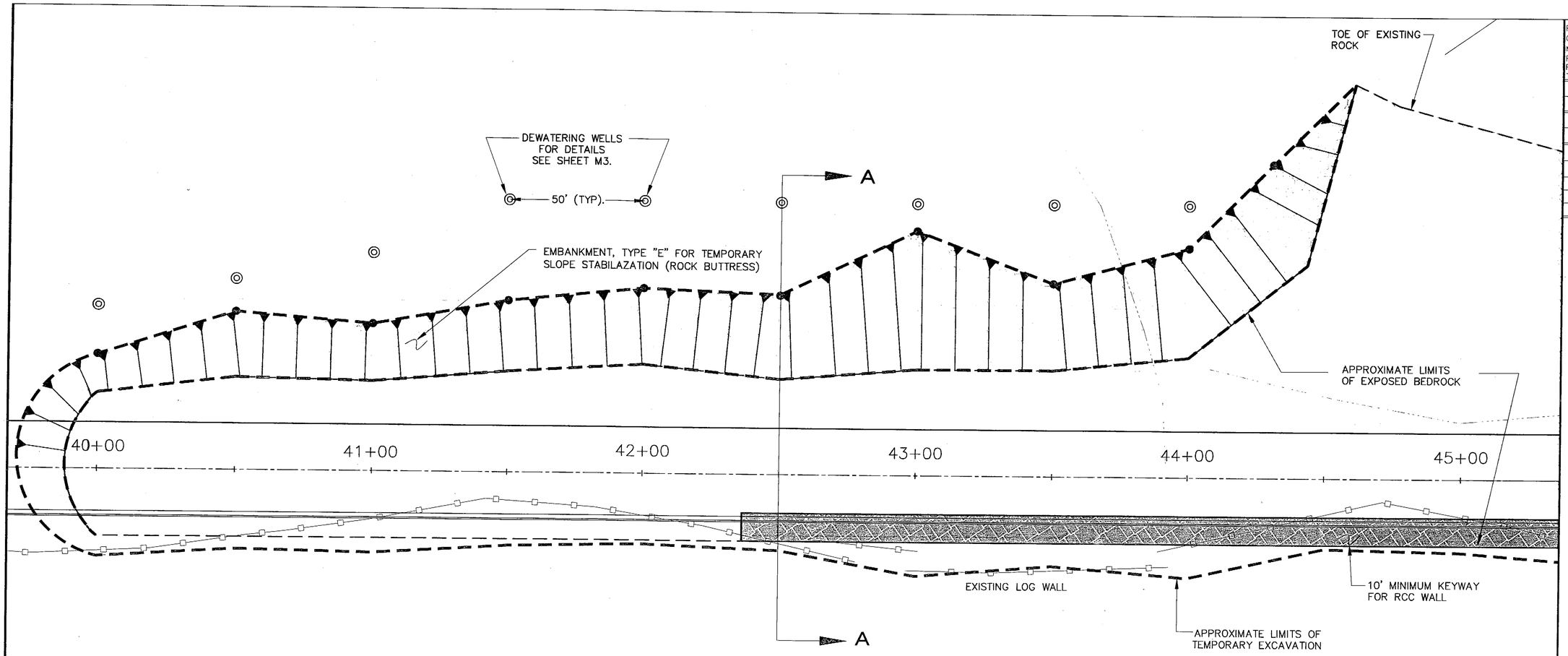
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Foundation Treatment Details

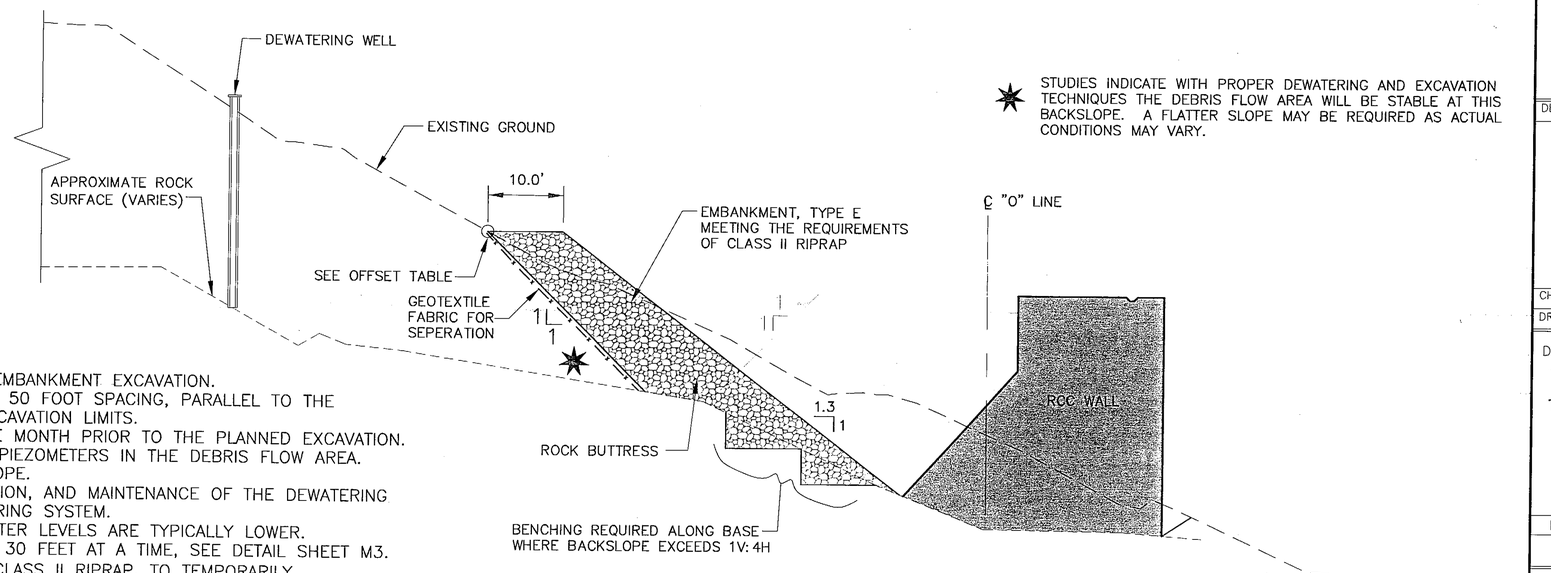
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
L9	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-4-06



ROCK BUTTRESS	
STATION	OFFSET
40+00	-43.3
40+50	-59.0
41+00	-55.3
41+50	-63.5
42+00	-68.0
42+50	-66.2
43+00	-90.0
43+50	-71.0
44+00	-84.3



STUDIES INDICATE WITH PROPER DEWATERING AND EXCAVATION TECHNIQUES THE DEBRIS FLOW AREA WILL BE STABLE AT THIS BACKSLOPE. A FLATTER SLOPE MAY BE REQUIRED AS ACTUAL CONDITIONS MAY VARY.

NOTES:
1. DEWATERING OF SLOPE REQUIRED PRIOR TO PERFORMING THE EMBANKMENT EXCAVATION.
2. INSTALL A ROW OF 8 INCH DIAMETER DEWATERING WELLS ON A 50 FOOT SPACING, PARALLEL TO THE CENTERLINE ALIGNMENT, IMMEDIATELY UPSLOPE FROM THE EXCAVATION LIMITS.
3. PUMPING FROM DEWATERING WELLS SHALL START AT LEAST ONE MONTH PRIOR TO THE PLANNED EXCAVATION.
4. GROUNDWATER LEVELS CAN BE MONITORED WITH THE EXISTING PIEZOMETERS IN THE DEBRIS FLOW AREA.
5. ADD DEWATERING WELLS AS NEEDED TO STABILIZE THE CUT SLOPE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, OPERATION, AND MAINTENANCE OF THE DEWATERING SYSTEM, INCLUDING PROVISIONS FOR POWER OF THE DEWATERING SYSTEM.
7. PERFORM EXCAVATION DURING DRIER MONTHS WHEN GROUNDWATER LEVELS ARE TYPICALLY LOWER.
8. PERFORM EXCAVATION IN SHORT SEGMENTS OF NO MORE THAN 30 FEET AT A TIME, SEE DETAIL SHEET M3.
9. USE EMBANKMENT, TYPE "E", MEETING THE REQUIREMENTS OF CLASS II RIPRAP, TO TEMPORARILY STABILIZE CUT SLOPE. ROCK BUTTRESS MUST BE PLACED PRIOR TO CONTINUING SEGMENTAL EXCAVATION, SEE S-A THIS SHEET.
10. AFTER COMPLETION OF RCC WALL, ROCK BUTTRESS MAY BE REUSED IN THE ROCKFILL PRISM OF THE ROADWAY EMBANKMENT

SECTION A-A

NOTE: DO NOT SCALE FROM DRAWING. USE DIMENSIONS.

PATH:
Q:\Ktn\71811A\Planset\M1-3_XPLAN.dwg
Mon, 06/May/02 10:45AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

OVERBURDEN/TALUS SLOPE EXCAVATION PLAN

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

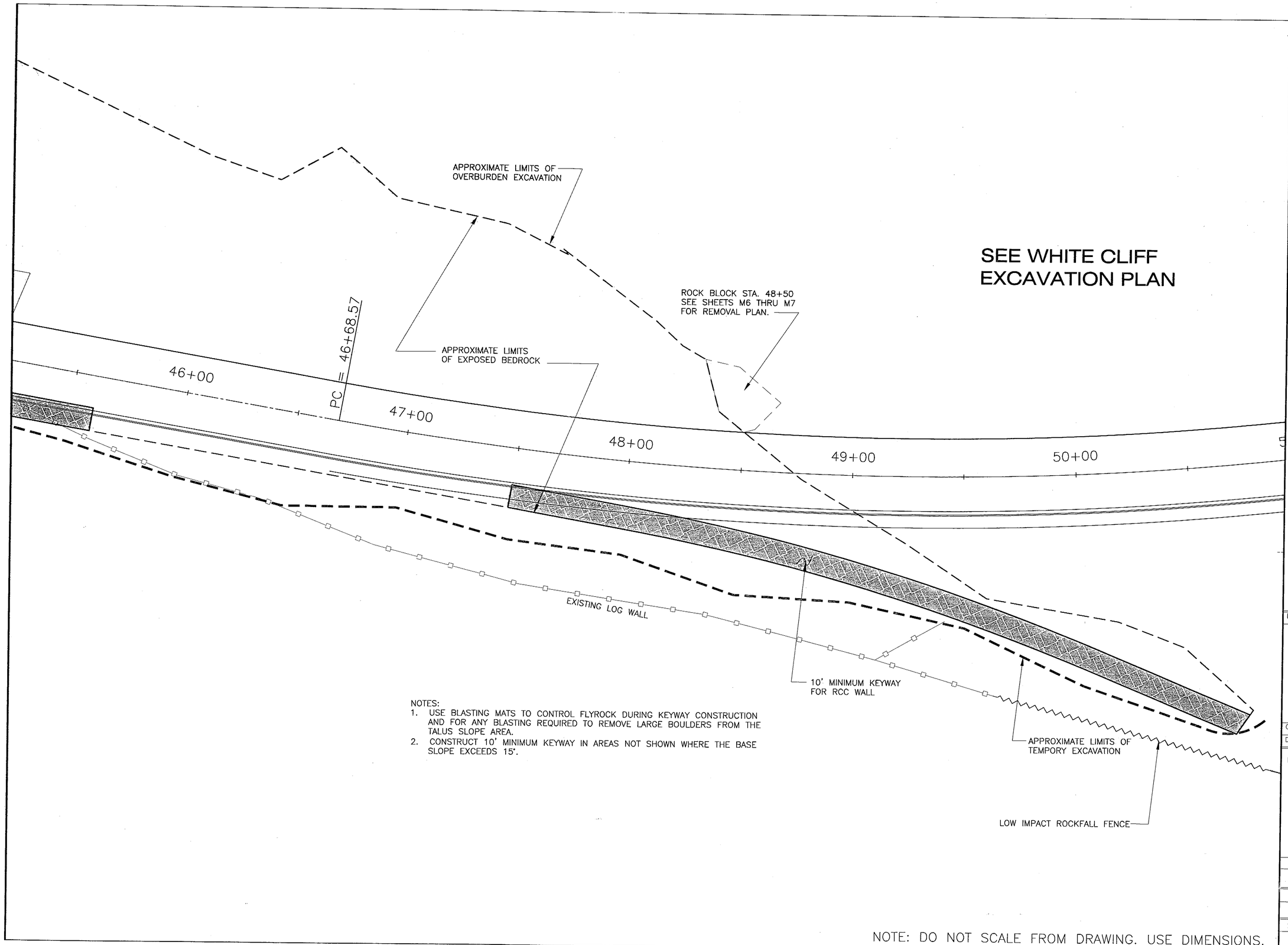
THIRD AVENUE EXTENSION
PROJECT NO. 68490

EXCAVATION PLAN

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
M1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-02



NOTES:
1. USE BLASTING MATS TO CONTROL FLYROCK DURING KEYWAY CONSTRUCTION AND FOR ANY BLASTING REQUIRED TO REMOVE LARGE BOULDERS FROM THE TALUS SLOPE AREA.
2. CONSTRUCT 10' MINIMUM KEYWAY IN AREAS NOT SHOWN WHERE THE BASE SLOPE EXCEEDS 15°.

NOTE: DO NOT SCALE FROM DRAWING. USE DIMENSIONS.

PATH:
Q:\Ktn\71811A\Planset\M1-3_XPLAN.dwg
Mon, 06/May/02 10:45AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

OVERBURDEN/TALUS SLOPE EXCAVATION PLAN

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

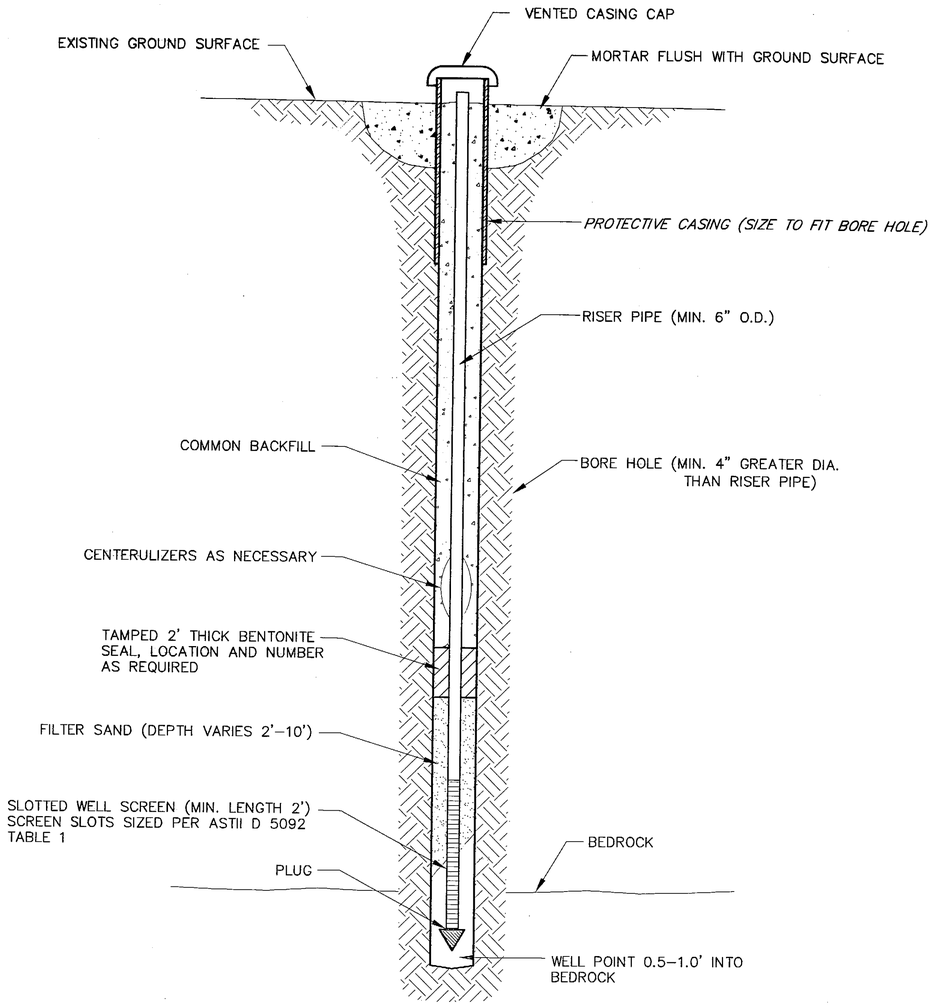
THIRD AVENUE EXTENSION
PROJECT NO. 68490

EXCAVATION PLAN

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
M2	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

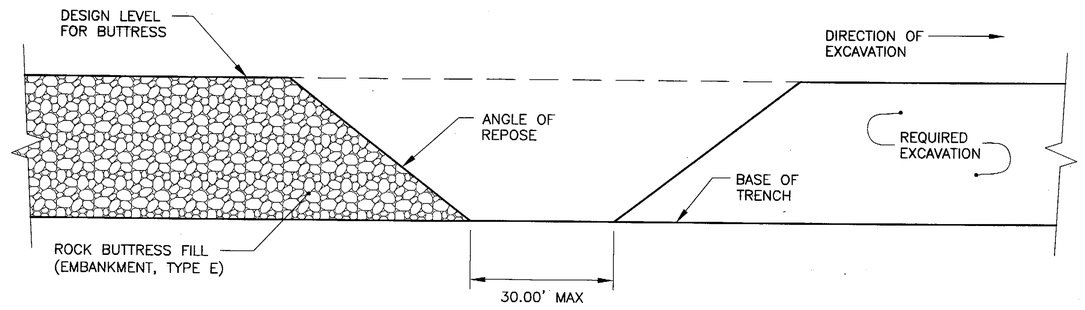
Proj. Eng _____ Date 10.31.06



NOTES:

1. WELL MADE BY DRIVING OR DRILLING CASING TO REQUIRED DEPTH, CLEANING OUT AND INSERTING WELL POINT AND RISER PIPE, OTTAWA SAND, BENTONITE SEALS AND COMMAN BACKFILL WHILE SIMULTANEOUSLY BUMPING BACK CASING UNTIL HOLE IS COMPLETELY BACKFILLED IN INCREMENTS AND CASING HAS BEEN REMOVED. MAY BE INSTALLED IN COMPLETED BOREHOLE IF BACKFILLED TO REQUIRED DEPTH.
2. FILTER SAND GRADATION TO COMFORM TO ASTM D 5092 (6.3.2 OR TABLE). PLACED TO COVER SLOTTED PORTION OF WELL SCREEN.
3. DEWATERING DISCHARGE IS TO BE COVERED BY SWPPP.
4. PUMP MUST BE ELECTRIC.

DEWATERING WELL



ROCK BUTTRESS BACKFILL DETAIL

NOTES:

i) THE ROCK BUTTRESS SHALL BE CONSTRUCTED BY EXCAVATING AND BACKFILLING IN SHORT SEGMENTS. A MAXIMUM BASE LEGTH OF 30ft. (MEASURED PARALLEL TO THE ROADWAY CENTERLINE) WILL BE ALLOWED OPEN AT ANY TIME. ROCK MATERIALS SHALL BE PLACED UP TO THE DESIGN LEVEL IN THE OPEN SEGMENT PRIOR TO EXCAVATION OF THE NEXT SEGMENT. SEE ROCK BUTTRESS BACKFILL DETAIL, THIS SHEET.

ii) ROCK BUTTRESS SHALL BE IN PLACE BEFORE CONSTRUCTION OF RCC WALL.

PATH:
O:\Ktn\71811A\Planset\M1-3_XPLAN.dwg
Mon, 06/May/02 10:45AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Rock Buttress Backfill Detail & Dewatering Well Detail

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

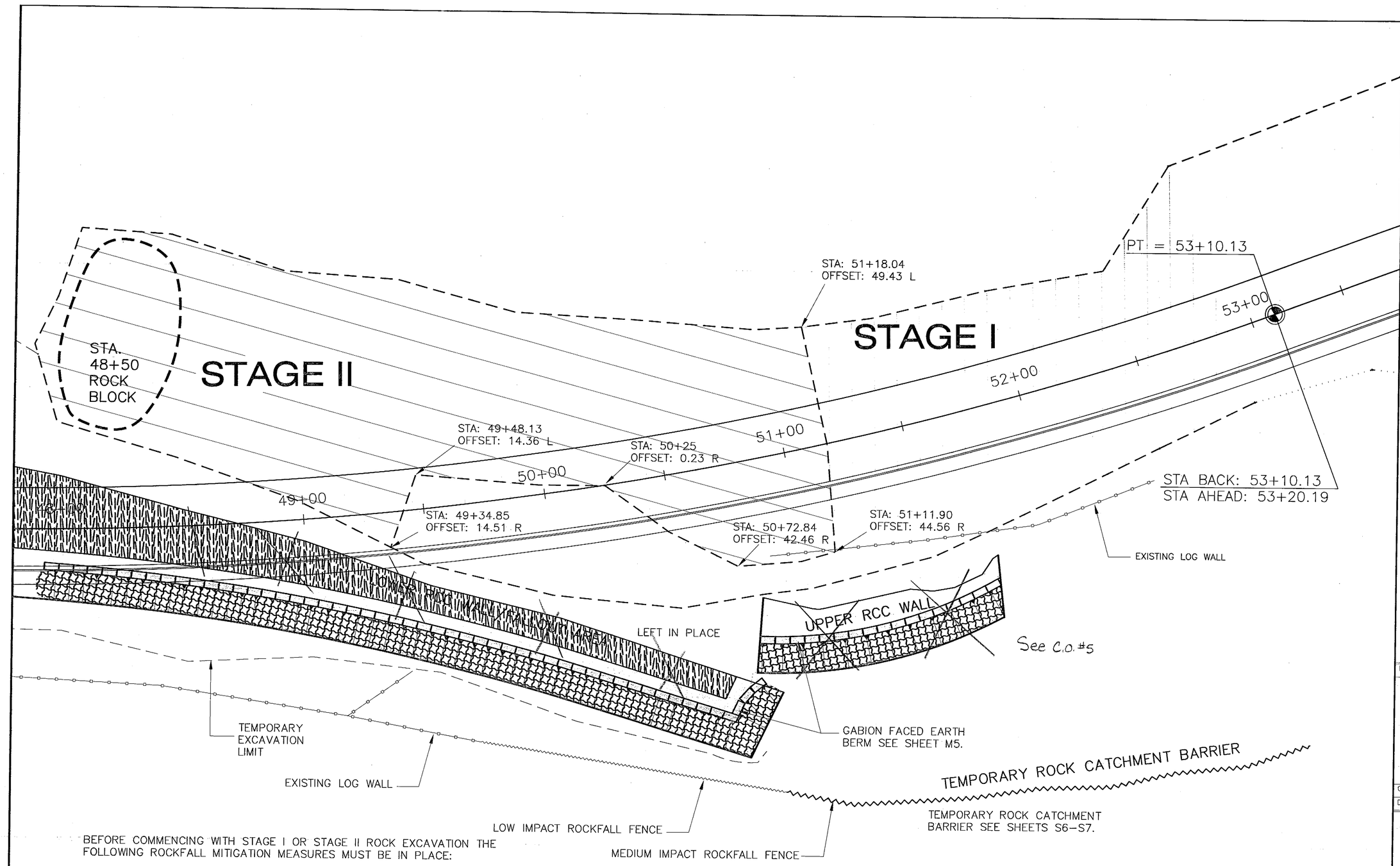
THIRD AVENUE EXTENSION
PROJECT NO. 68490
Rock Buttress Backfill & Dewatering Well Detail

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
M3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



BEFORE COMMENCING WITH STAGE I OR STAGE II ROCK EXCAVATION THE FOLLOWING ROCKFALL MITIGATION MEASURES MUST BE IN PLACE:

1. ROLLER COMPACTED CONCRETE FALLOUT AREA MUST BE CONSTRUCTED.
2. A GABION-FACED EARTH BERM MUST BE CONSTRUCTED BETWEEN STA. 48+00 AND STA. 51+40 TO INTERCEPT ROLLING AND BOUNCING ROCKS.
3. THE ROCK CATCHMENT BARRIERS MUST BE INSTALLED.
4. THE USE OF BLASTING MATS IS REQUIRED TO CONTROL FLYROCK.
5. DURING ROCK EXCAVATION, THE FALLOUT AREA SHALL BE CLEANED AFTER EACH BLAST TO ENSURE ADEQUATE STORAGE FOR THE NEXT BLAST.

PATH:
Q:\Ktn\71811A\Planset\M4-7_WhiteCliff.dwg
Mon, 06/May/02 10:46AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: M4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

White Cliff Excavation Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

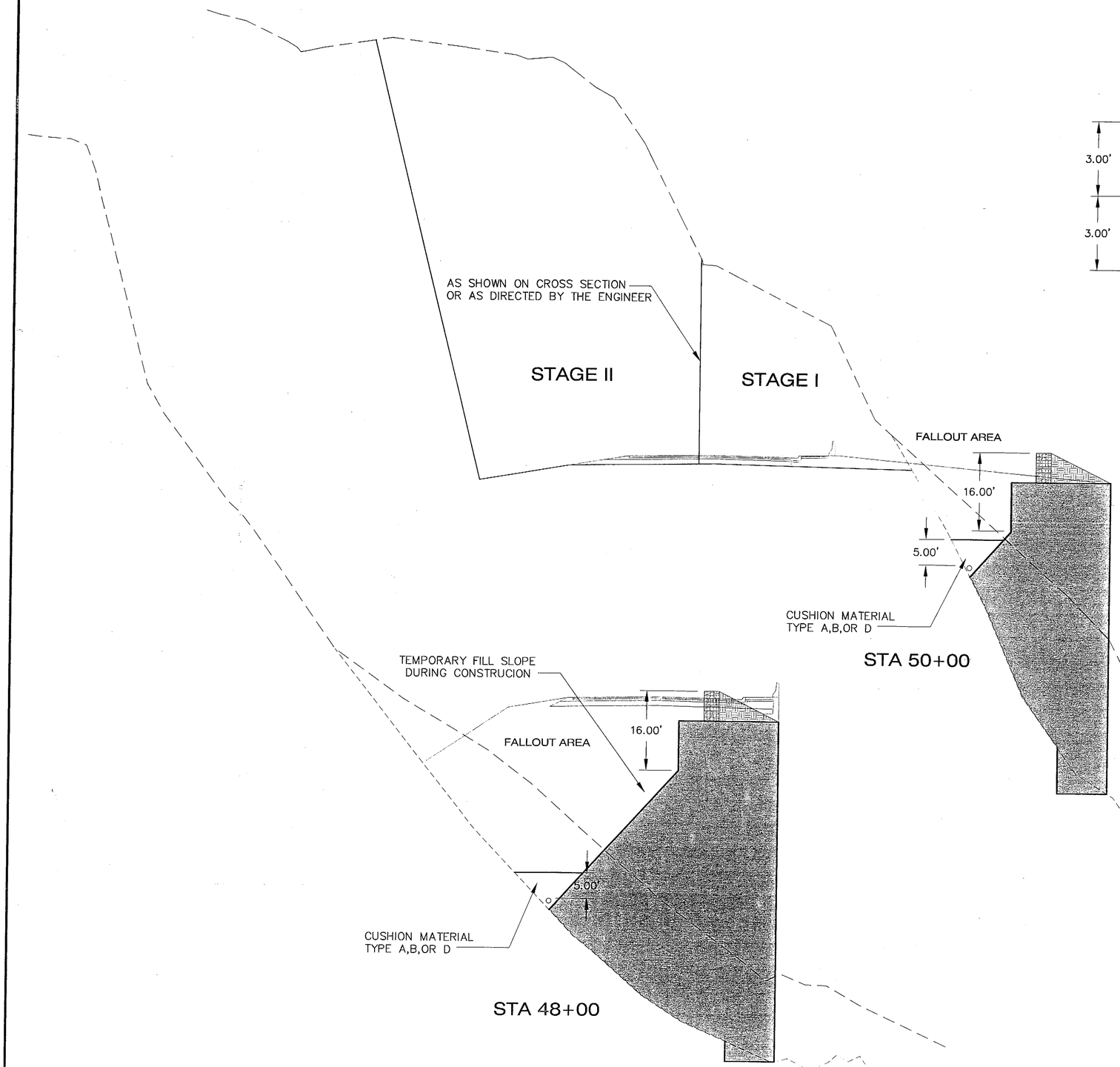
THIRD AVENUE EXTENSION
PROJECT NO. 68490

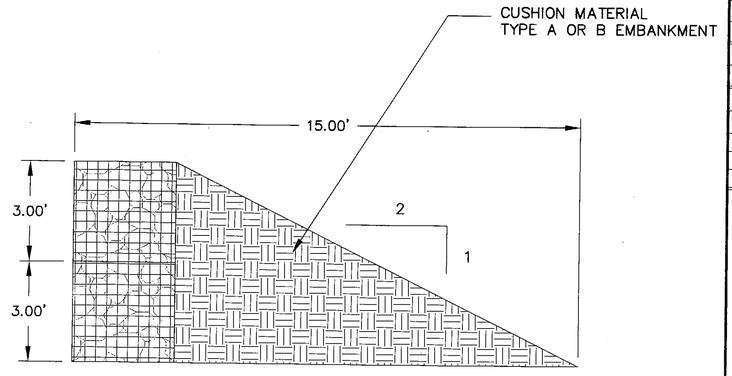
White Cliff Excavation Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
M4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10/31/06





GABION-FACED EARTH BERM

NOTES:
1. STACK TWO GABION BASKETS TO FACE EARTH BERM BEFORE ROCK EXCAVTION.
2. DO NOT FILL BEHIND RCC WALL UNTIL WHITE CLIFF EXCAVATION IS COMPLETED.
3. ALLOW RCC TO CURE 28 DAYS BEFORE COMMENCING WHITE CLIFF EXCAVATION.
4. CUSHION MATERIAL RE-USED IN FINAL POSITION WILL BE PAID FOR AS EMBANKMENT, OTHERWISE IS SUBSIDIARY TO SECTION 520.

PATH:
Q:\Ktn\71811A\Planset\M4-7_WhiteCliff.dwg
Mon, 06/May/02 10:46AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: M5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

White Cliff Excavation Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

White Cliff Excavation Plan

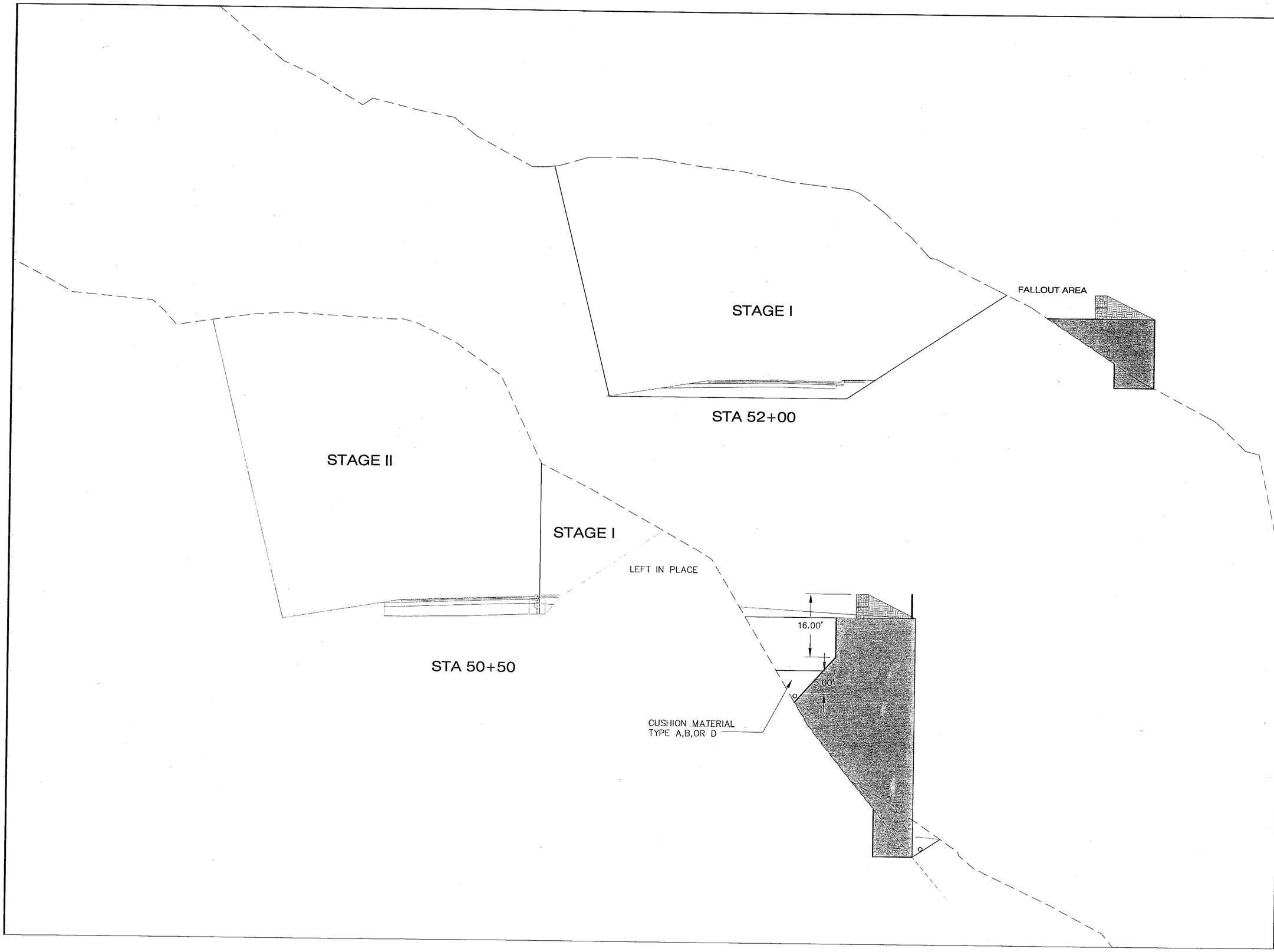
PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002

SHEET NUMBER	TOTAL SHEETS
M5	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-24-06



PATH:
Q:\Ktn\71811A\Planset\M4-7_WhiteCliff.dwg
Mon, 06/May/02 10:46AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: M6

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

White Cliff Excavation Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

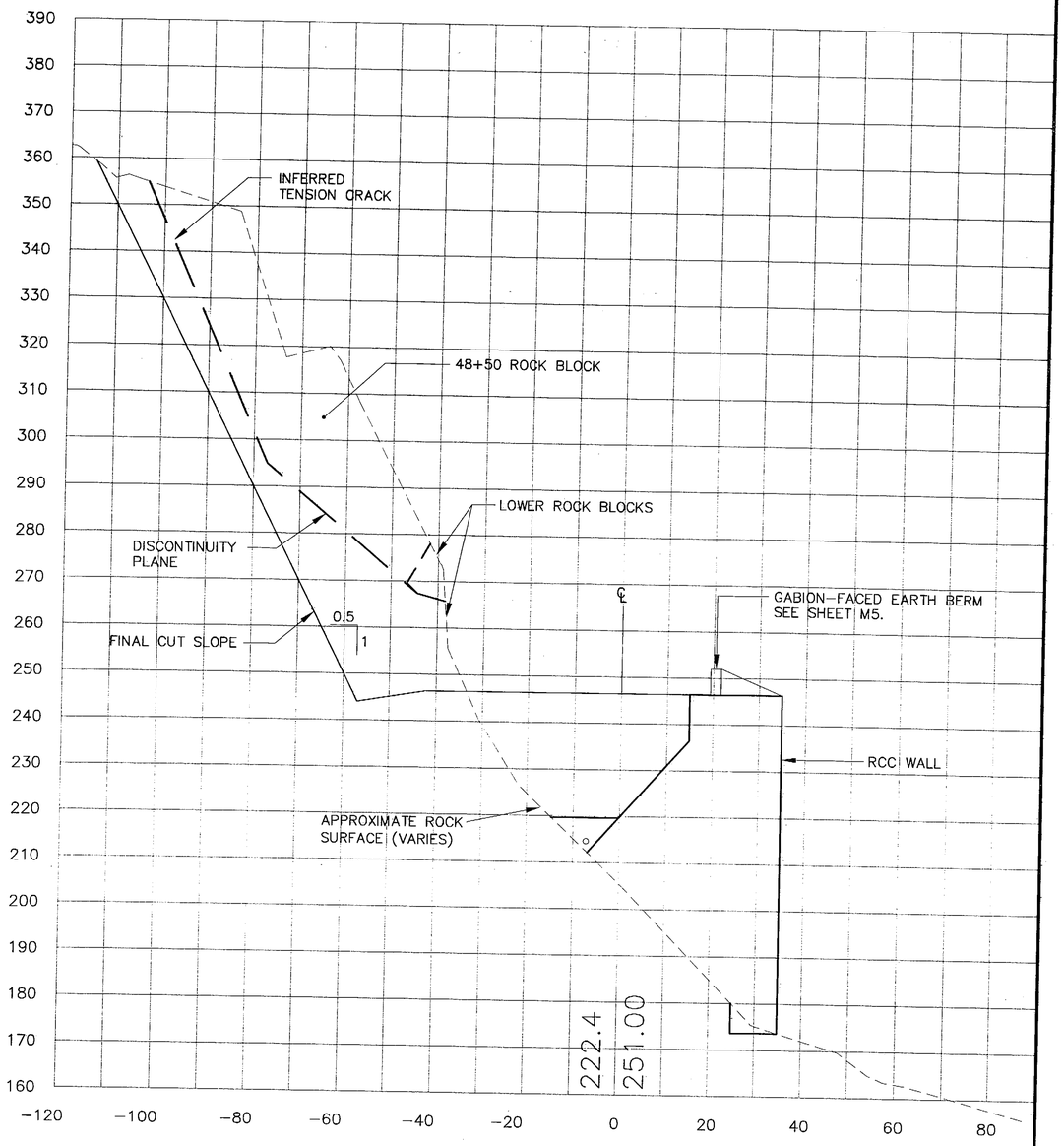
THIRD AVENUE EXTENSION
PROJECT NO. 68490

White Cliff Excavation Plan

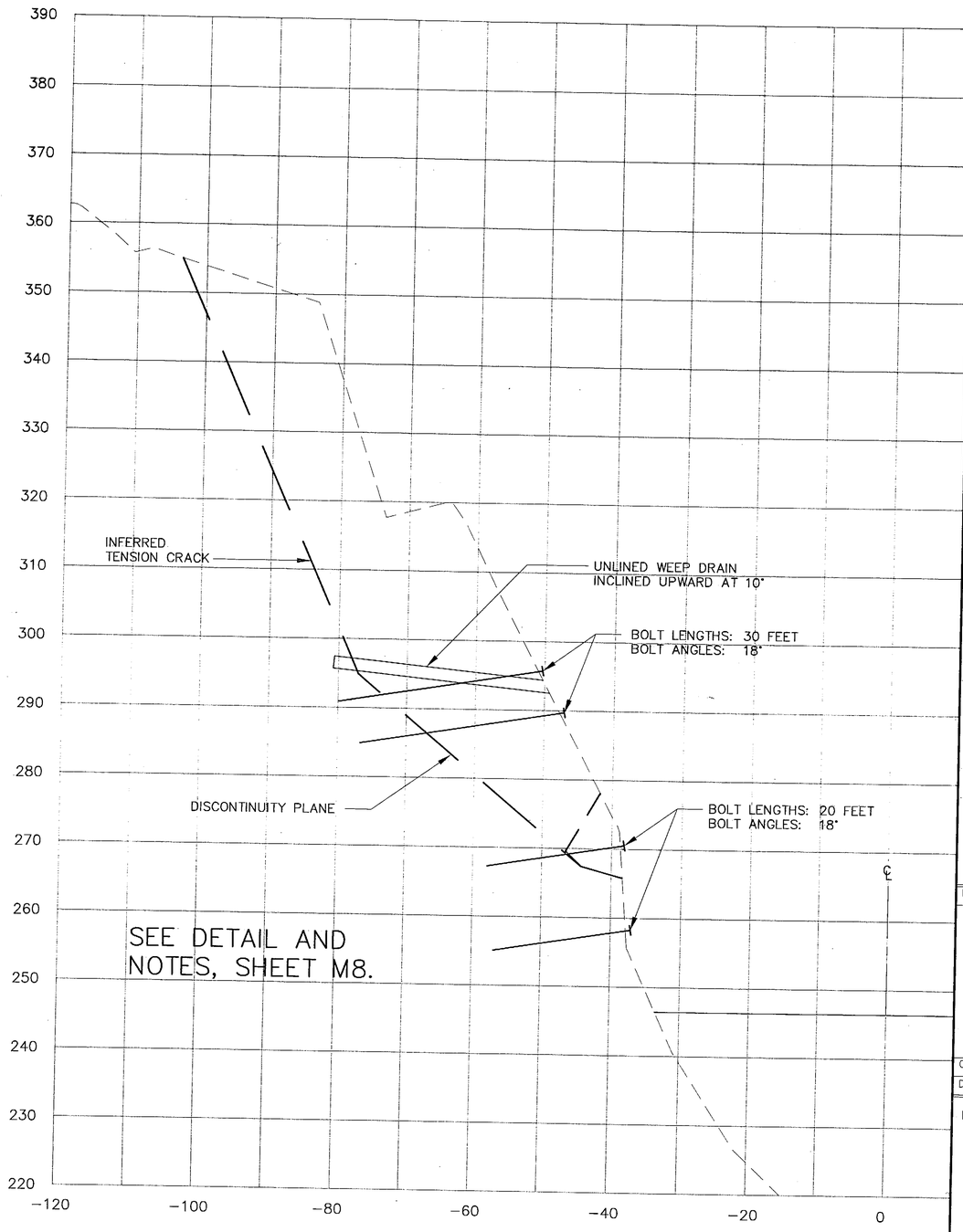
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
M6	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



Cross Section Rock Block STA. 48+50



Rock Bolt Diagram Rock Block STA. 48+50

PATH:
Q:\Ktn\71811A\Planset\M4-7_WhiteCliff.dwg
Mon, 06/May/02 10:46AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: M7

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Rock Block Sta. 48+50 Removal Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: M.L.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Rock Block Sta. 48+50 Removal Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
M7	146

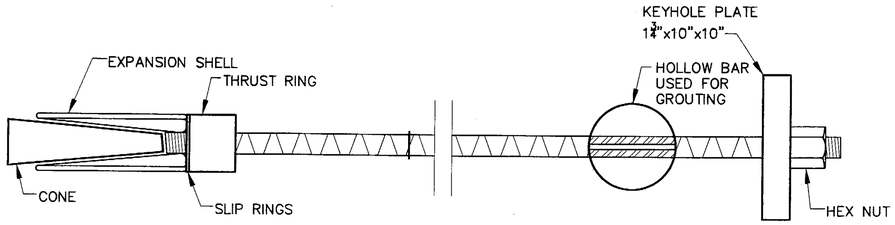
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10-31-06

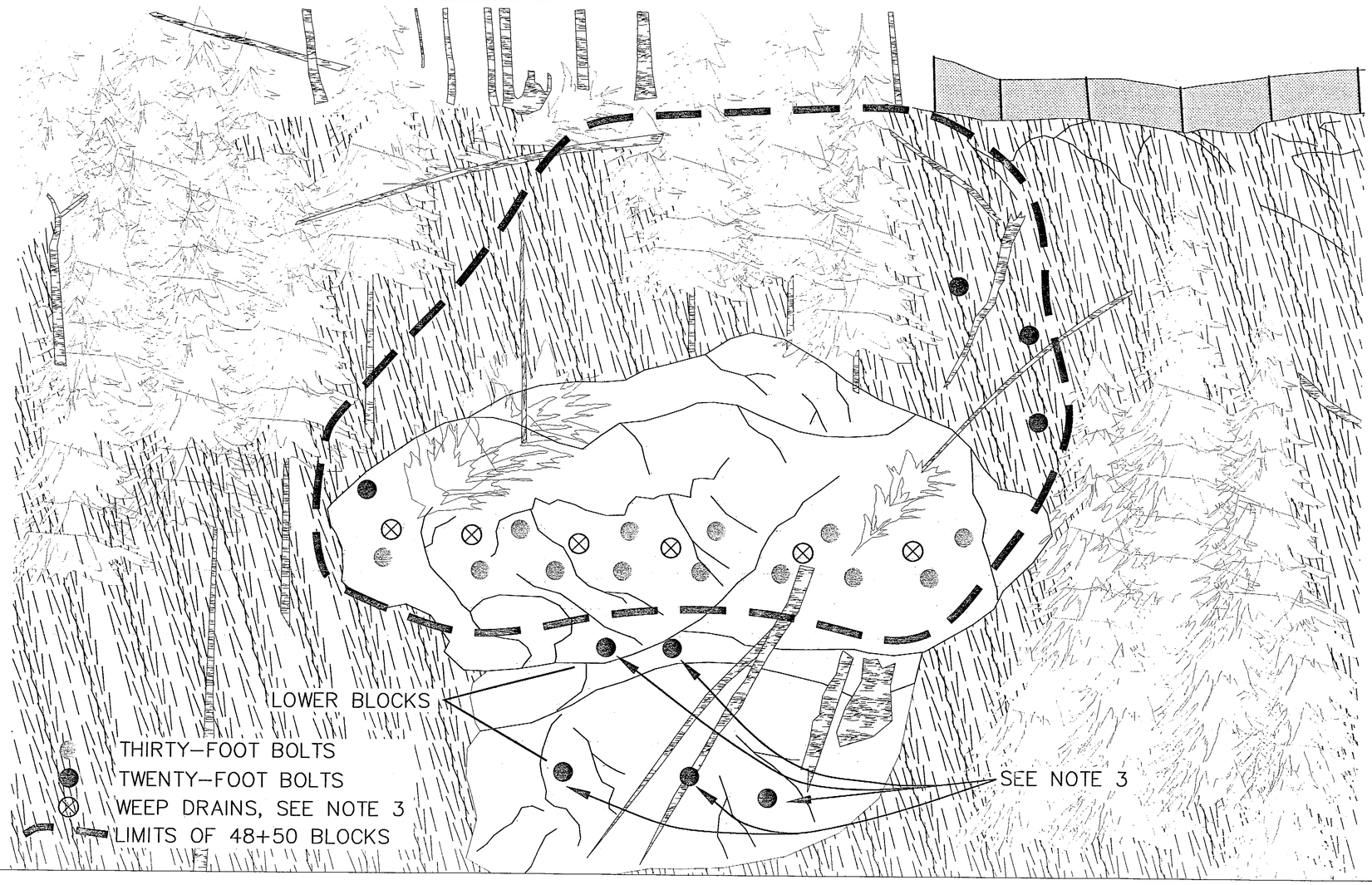
NOTES:

1. THE ROCK BOLT REINFORCEMENT IS CONSIDERED TEMPORARY SINCE THE ROCKBLOCK IS SLATED FOR COMPLETE REMOVAL AS CONSTRUCTION PROCEEDS.
2. LOCATION OF ALL BOLTS TO BE DIRECTED IN THE FIELD BY THE ENGINEER.
3. THE BOTTOM FIVE, 20–FOOT LONG BOLTS AND WEEP DRAINS NEED TO BE INSTALLED BEFORE THE COLLUVIUM IS REMOVED IN ORDER TO SECURE THE LOWER KEY BLOCKS AND REPLACE THE SUPPORT PROVIDED BY THE COLLUVIUM.
4. STABILIZE THE STA. 48+50 ROCKBLOCK WITH A MECHANICALLY ANCHORED HOLLOW–CORE ROCK BOLT SYSTEM, SIMILAR TO THE WILLIAMS FORM ENGINEERING CORPORATION PROPRIETARY BOLT SYSTEM SHOWN ON THIS SHEET, OR AN APPROVED EQUAL.
5. ALL ROCK BOLTS WILL NEED TO BE INSTALLED BEFORE ANY PRODUCTION BLASTING FOR THE ROADWAY CUT SLOPES IS PERFORMED WITHIN 500 FEET OF STATION 48+50. ONCE ALL 22 BOLTS ARE INSTALLED, THE BLOCK CAN BE REMOVED IN 30–FOOT LIFTS.

STA. 48+50 ROCK BLOCK-ROCK BOLT SUMMARY			
QUANTITY	LENGTH	DESIGN LOAD	REMARKS
9	20'	69 KIP	5 INSTALLED THRU LOWER BLOCKS, SEE NOTE 3
			4 INSTALLED THRU ROCK BOLTS, SEE NOTE 5
13	30'	69 KIP	INSTALLED THRU ROCKBLOCK, SEE NOTES



- NO SCALE
- EXAMPLE SHOWN IS A WILLIAMS FROM ENGINEERING CORP. PRODUCT



PATH:
Q:\Ktn\71811A\Planset\M4-7_WhiteCliff.dwg
Mon, 06/May/02 10:46AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: M8

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sta. 48+50 Rock Block

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

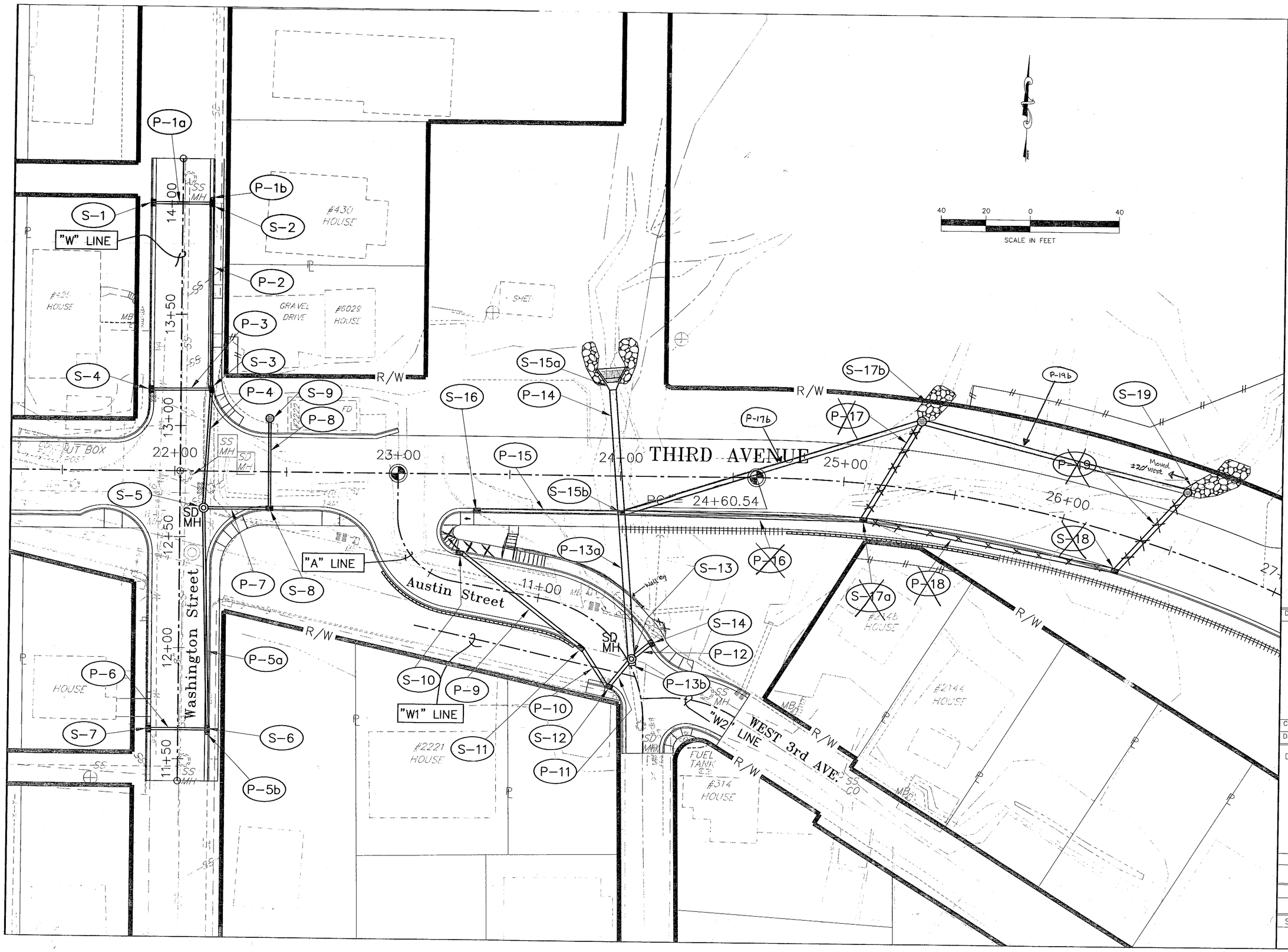
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sta. 48+50 Rock Block

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
M8	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-4-06



PATH: Q:\Ktn\71811A\Planset\N_DrainPlan.dwg
Mon, 06/May/02 10:56AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PLAN

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Drainage Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

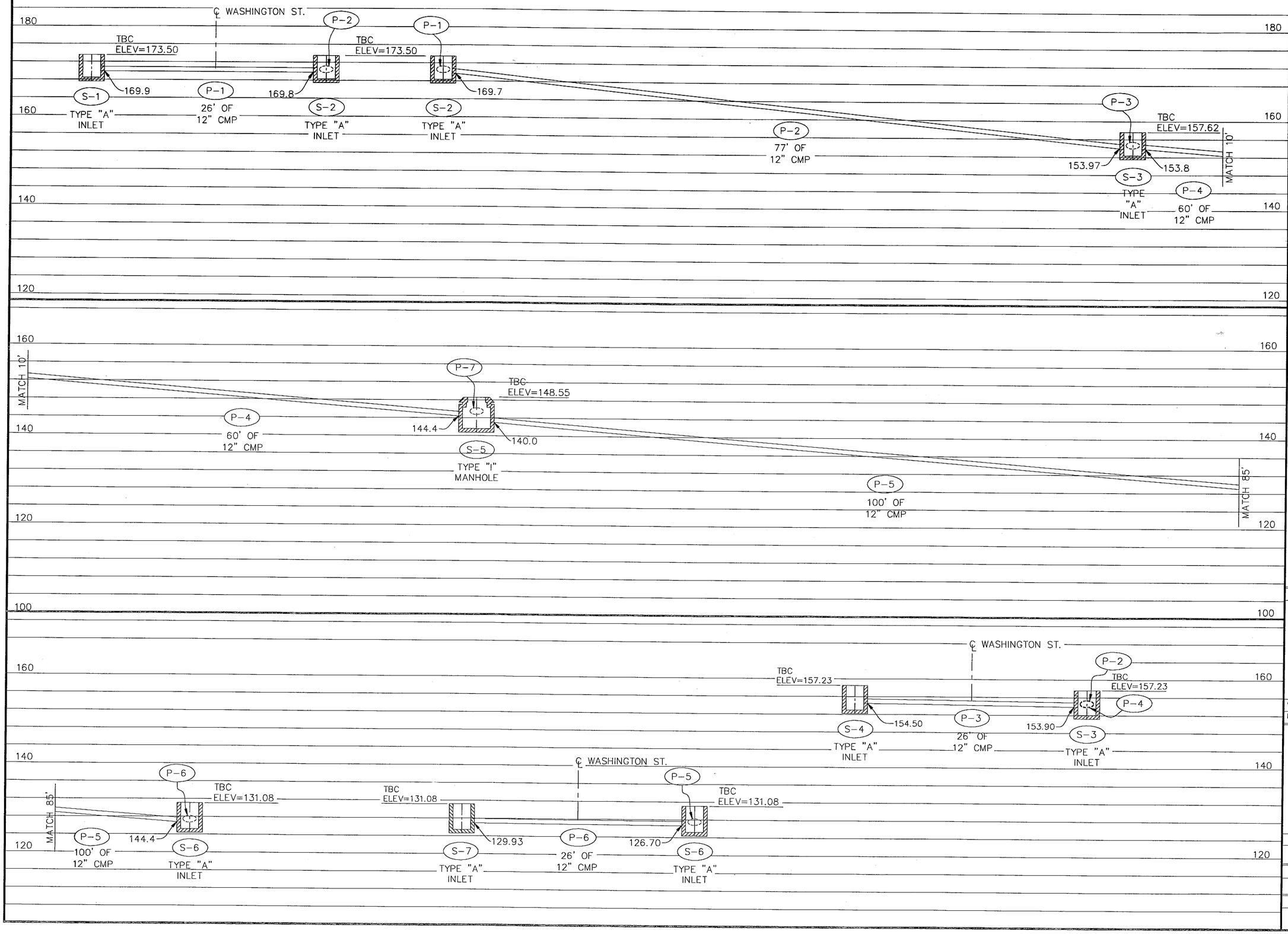
Drainage Plan

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



PATH:
Q:\Ktn\71811A\Planset\N_Pipe-Profiles.dwg
Mon, 06/May/02 11:53AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PR1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Storm Drain Pipe Profiles

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

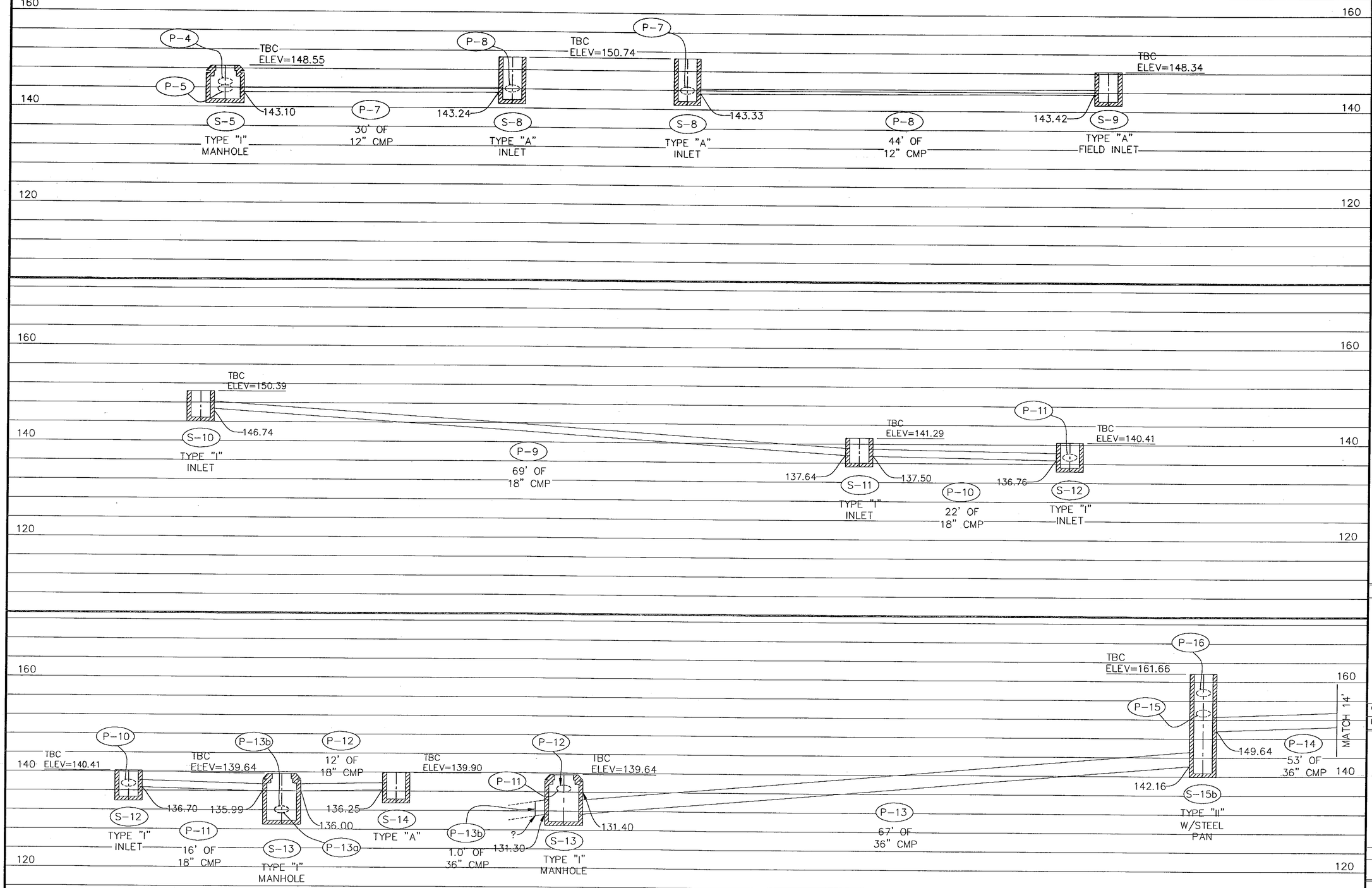
Storm Drain Pipe Profiles

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N2	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 12-31-02



PATH:
Q:\Ktn\71811A\Planset\N_Pipe-Profiles.dwg
Mon, 06/May/02 11:53AM Michael Limbough
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PR2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Storm Drain Pipe Profiles

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

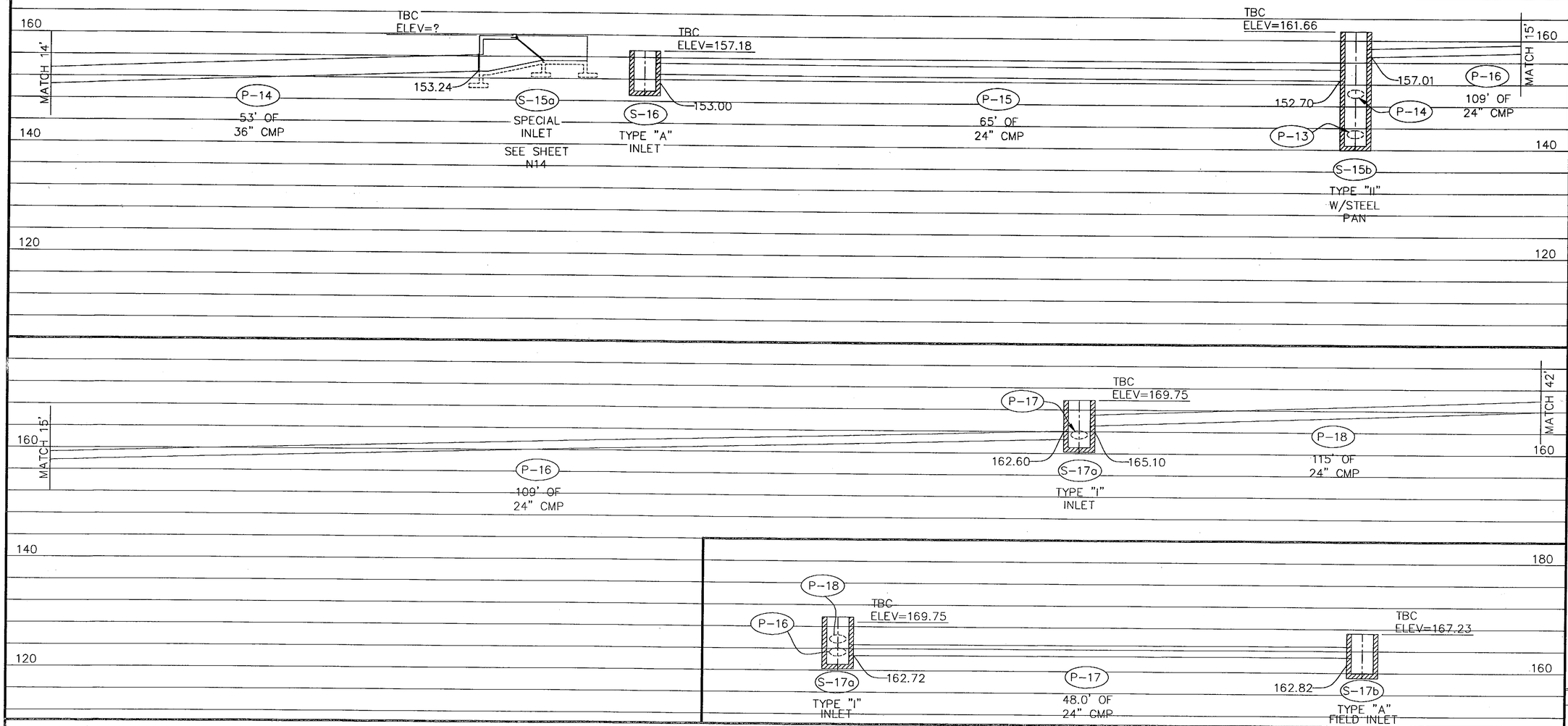
Storm Drain Pipe Profiles

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10-9-06



PATH:
Q:\Ktn\71811A\Planset\N_Pipe-Profiles.dwg
Mon, 06/May/02 11:53AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: PR3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Storm Drain Pipe Profiles

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

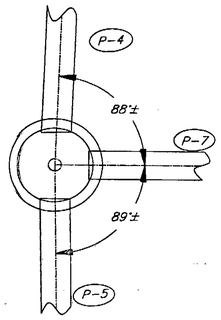
Storm Drain Pipe Profiles

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

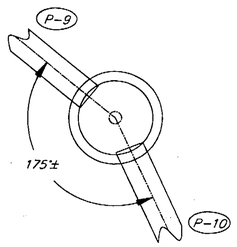
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

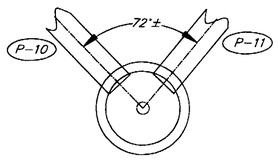
Proj. Eng. _____ Date 10.3.06



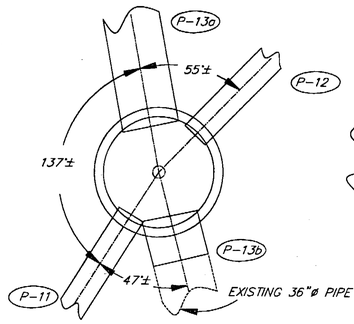
S-5
TYPE I



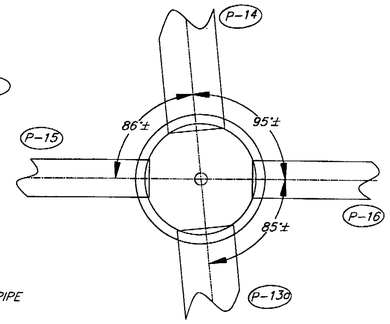
S-11
TYPE I



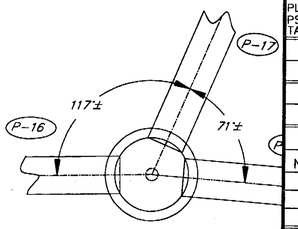
S-12
TYPE I



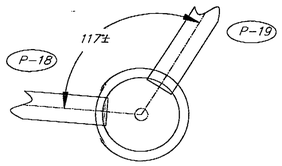
S-13
TYPE II



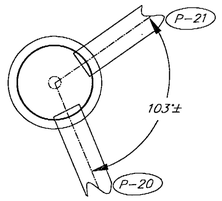
S-15b
TYPE II



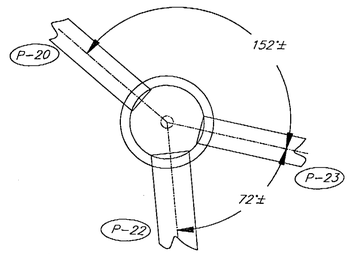
S-17a
TYPE I



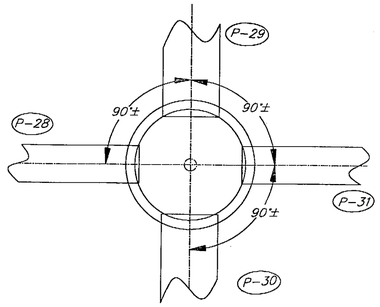
S-18
TYPE I



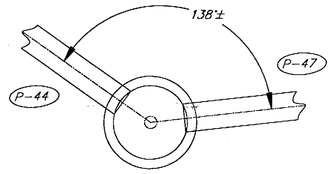
S-20
TYPE I



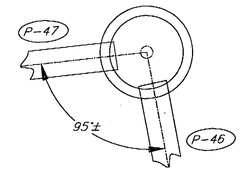
S-21
TYPE I



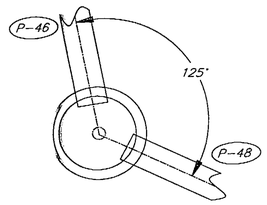
S-26a
TYPE II



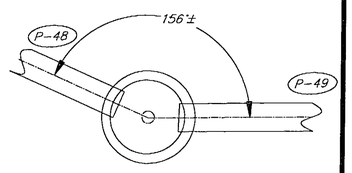
S-33a
TYPE I



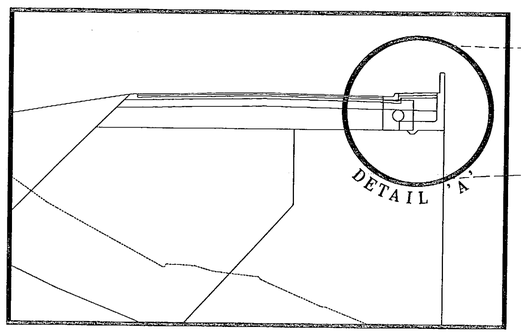
S-33b
TYPE I



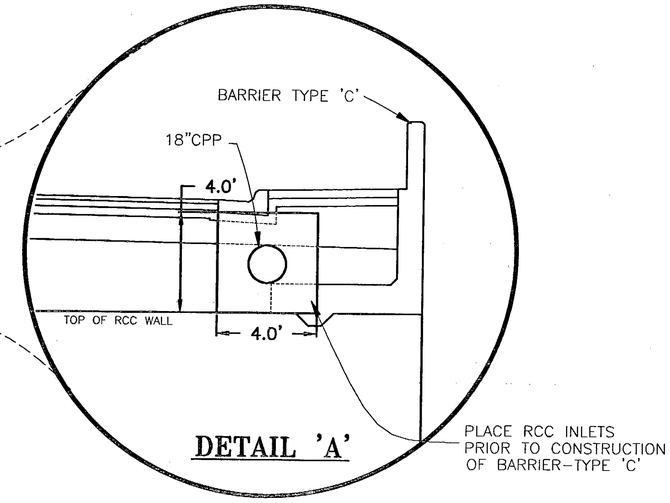
S-34
TYPE I



S-35
TYPE I



WALL VIEW



NOTES:

1. STORM DRAIN MANHOLES SHALL CONFORM TO THE FOLLOWING STANDARD DRAWINGS:
   - INLET TYPE A, REFER TO SHEET D-26.02
   - INLET TYPE 1, REFER TO SHEET D-35.00
   - INLET TYPE 2, REFER TO SHEET D-37.01
2. CURB INLET FRAME & GRATE SHOULD CONFORM TO STD. DWG. D-23.00
3. FIELD INLETS SHOULD MEET TYPICAL DESIGN STANDARDS BASED ON EACH TYPE. CONTRACTOR MAY ADAPT DESIGN TO USE MATERIALS ON HAND, PER ENGINEER'S REVIEW.
3. FIELD INLET FRAME & GRATE SHALL CONFORM TO STD. DWG. D-22.00
4. REBAR DETAILS FOR RCC INLETS SHALL MEET DESIGN STANDARDS FOR THE TYPE I INLET.

RCC INLET DETAIL

PATH: Q:\Ktn\71811A\Planset\N-Droinstructdet1.dwg
Mon, 06/May/02 09:42AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: DRAIN1

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Drainage Structure Details

DESIGNED BY: J. OSBURN

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION PROJECT NO. 68490

Drainage Structure Details

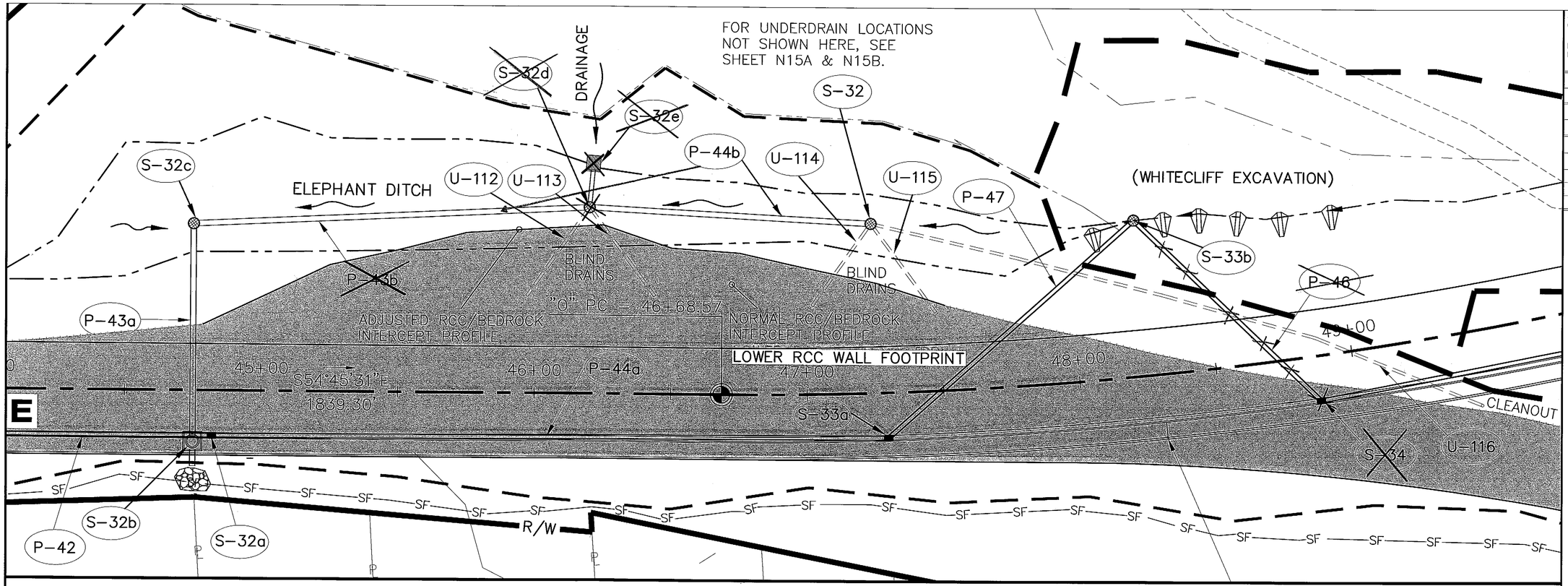
PROJECT DESIGNATION NUMBER

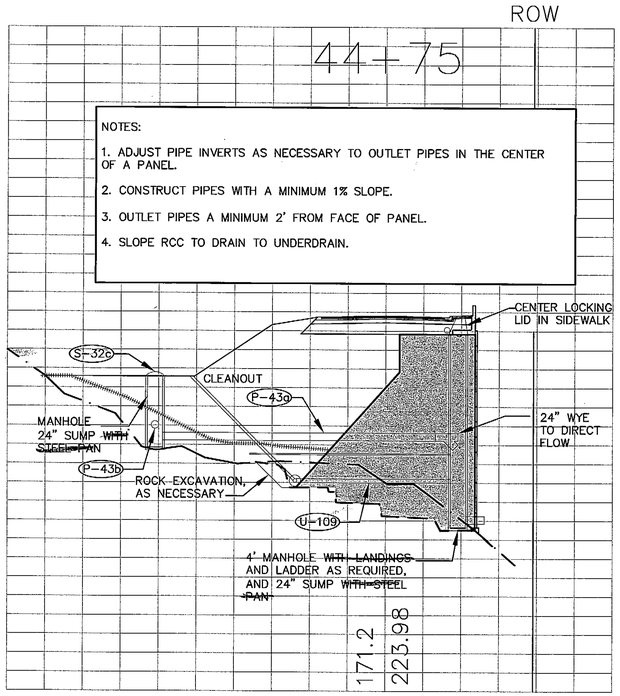
STP-MG-0904(2)

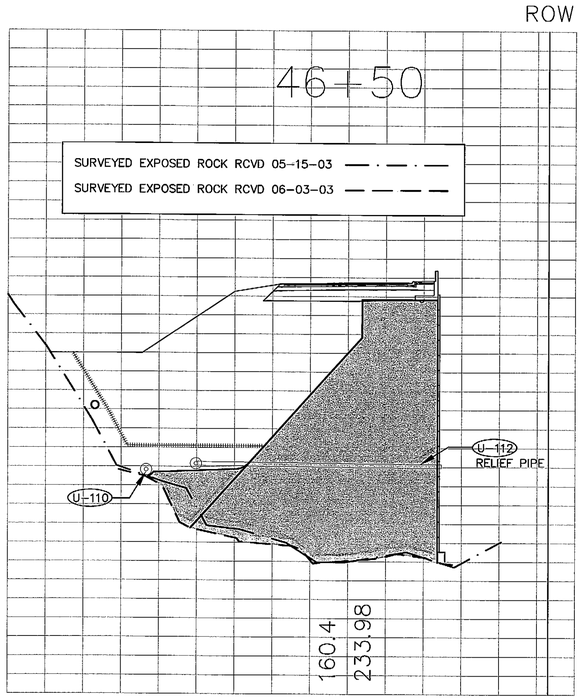
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N5	146

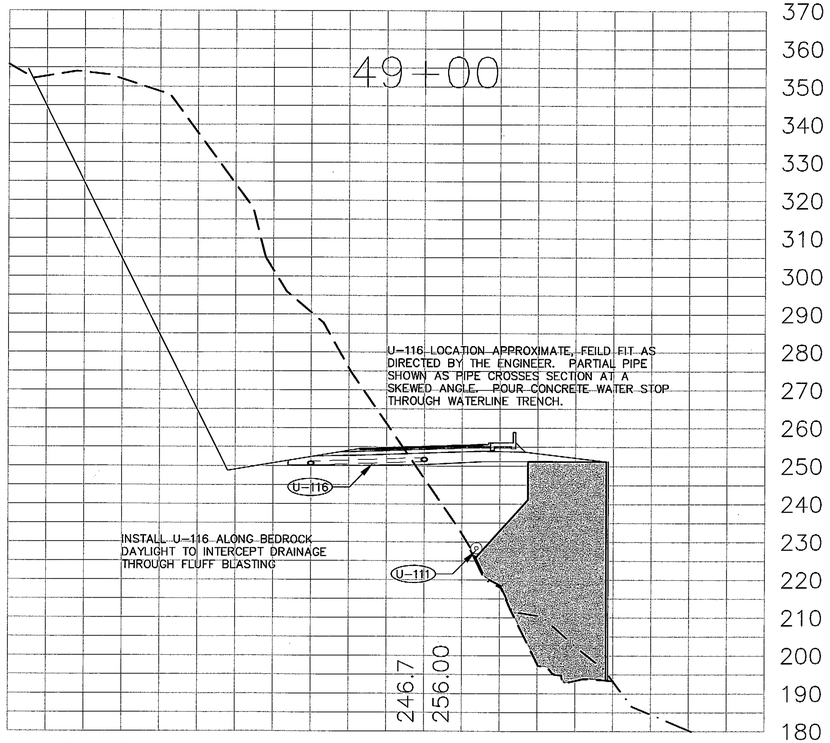
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06









PATH:
O:\Ktn\71811A\En\p\3rdst\REVISON\FINAL DRA
Tue, 28/Jun/05 10:41AM rksnyder
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

REVISED

Elephant Ditch Drainage Pipe Plan & Section Views

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 6.31.06

DESIGNED BY: J. OSBURN, C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

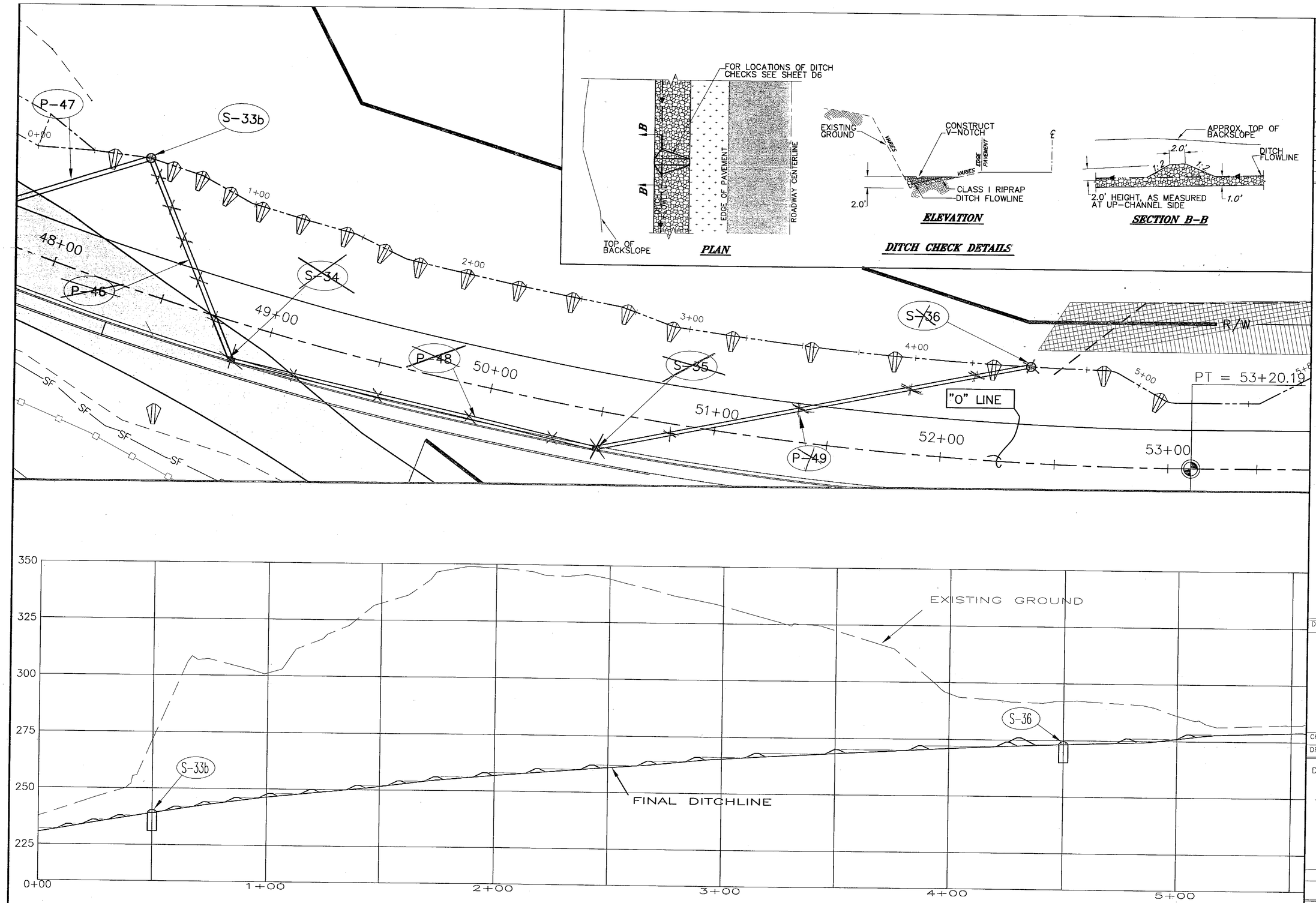
DRAWN BY: K.K./R.S./M.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Elephant Ditch Drainage Pipe Plan & Section Views

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N6	146



PATH: Q:\Ktn\71811A\Planset\N_Ditch Check P&P.dwg
Mon, 06/May/02 10:47AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: DITCH CHECK DETAIL_N7

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Ditch Check Plan and Profile

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

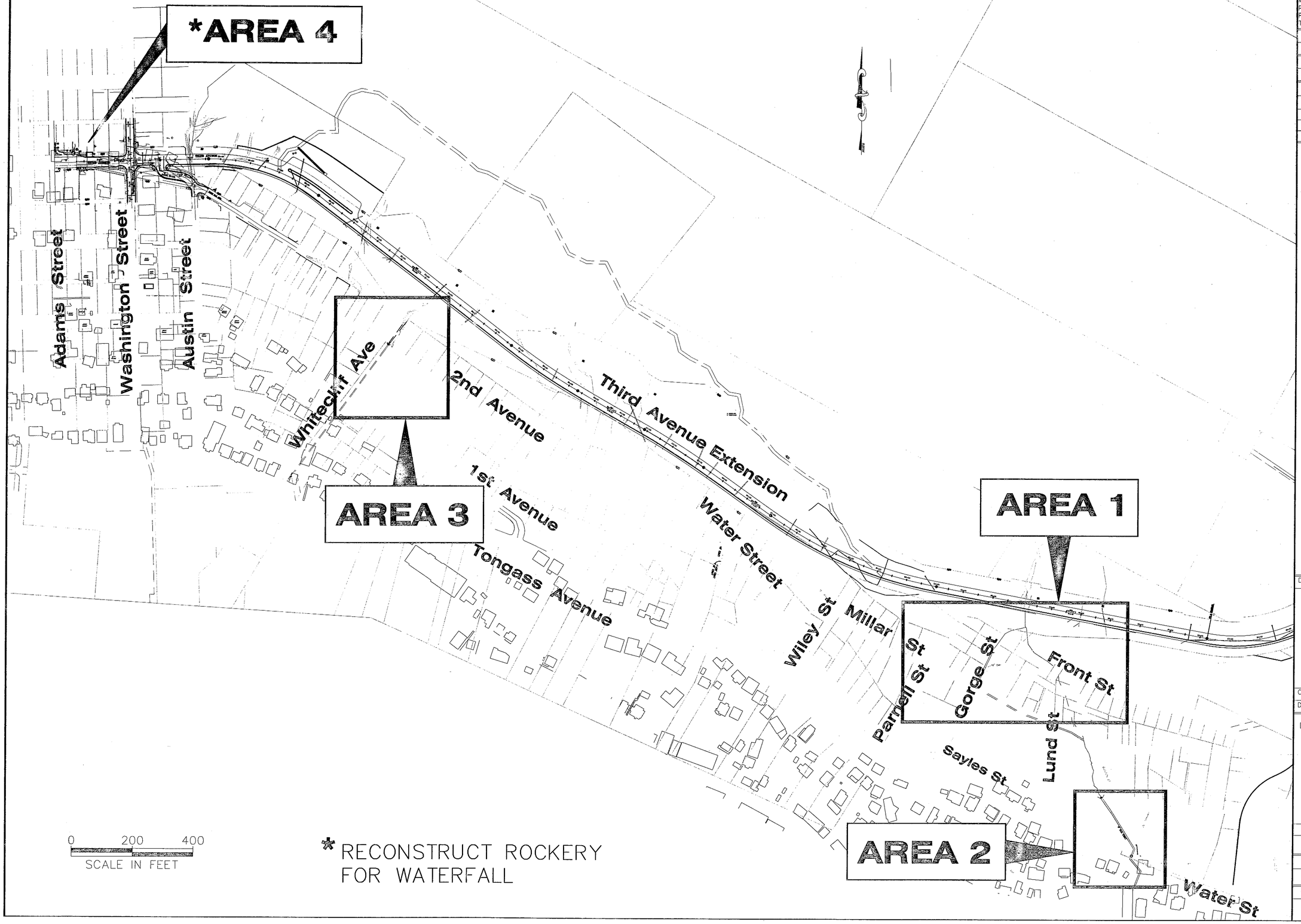
Ditch Check Plan and Profile

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N7	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



PATH:
Q:\Ktn\71811A\Planset\N_DrainAreas.dwg
Mon, 06/May/02 10:53AM
PLOT: Michael Limbaugh
PSPACE: 1=1(F) OR MSPACE: 1=32(F)
TAB:LAYOUT-N1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Offsite Drainage Improvements Layout Plan

DESIGNED BY: J. OSBURN

STATE OF ALASKA
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S

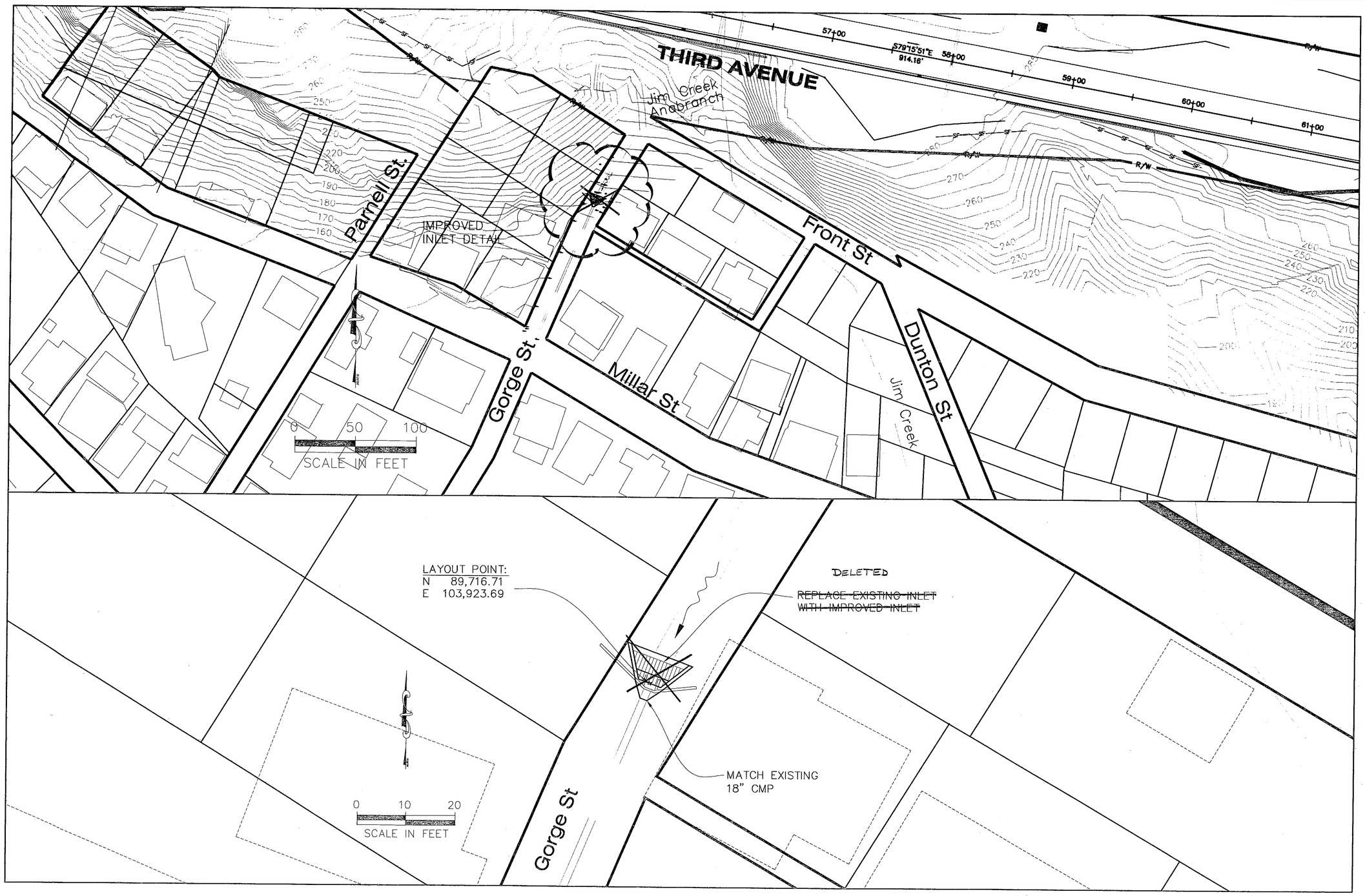
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Offsite Drainage Improvements Layout Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N8	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-3-06



KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490
DRAINAGE IMPROVEMENTS
AREA 1

PATH:
Q:\Ktn\71811A\Planset\N_DrainAreas.dwg
Mon, 06/May/02 10:52AM
PLOT: Michael Limbaugh
PSPACE: 1=1(F) OR MSPACE: 1=32(F)
TAB: AREA1-N

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Offsite Drainage Improvements
Area 1 Layout Plan

DESIGNED BY: J. OSBURN

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

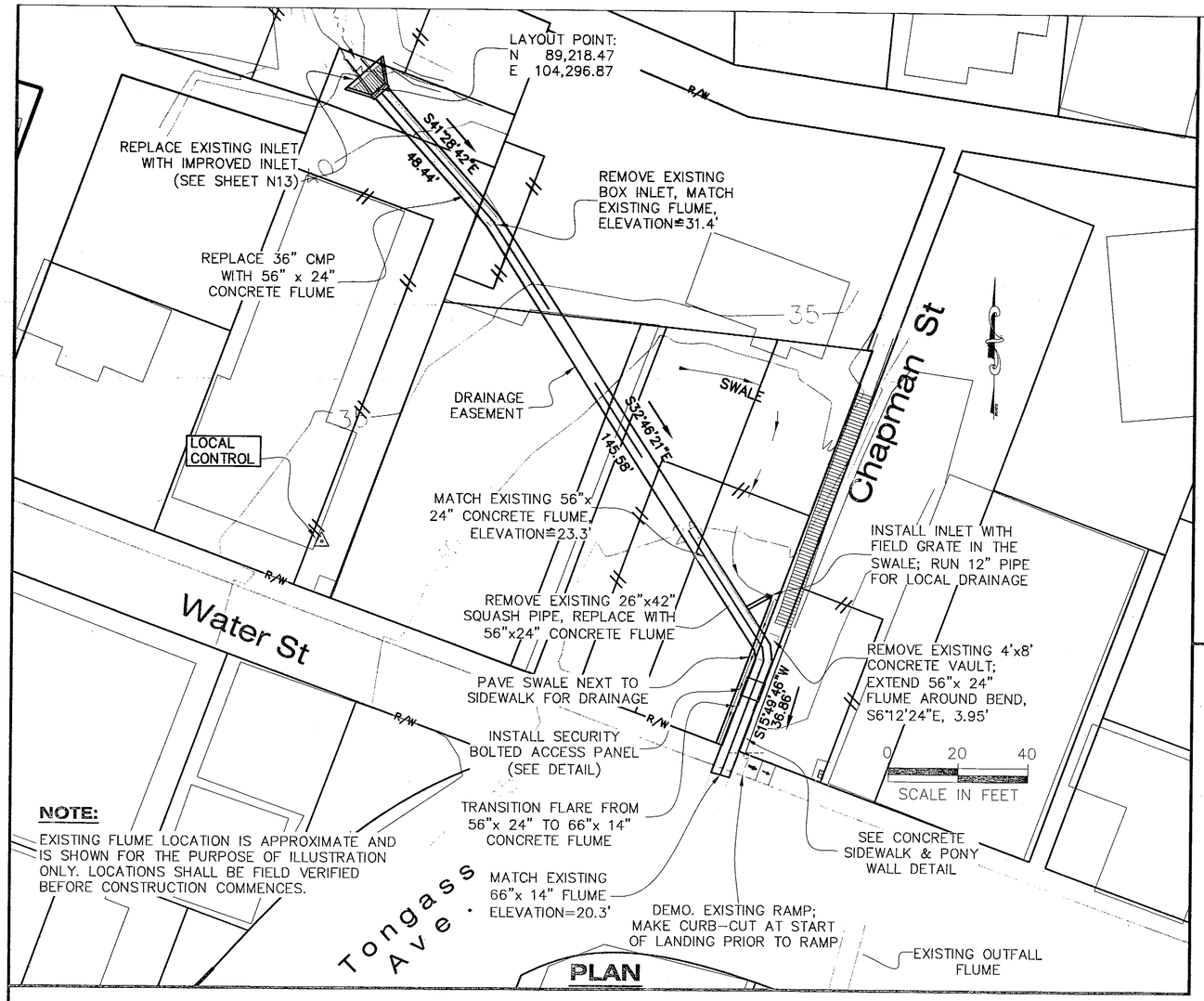
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Offsite Drainage Improvements Layout Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N9	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

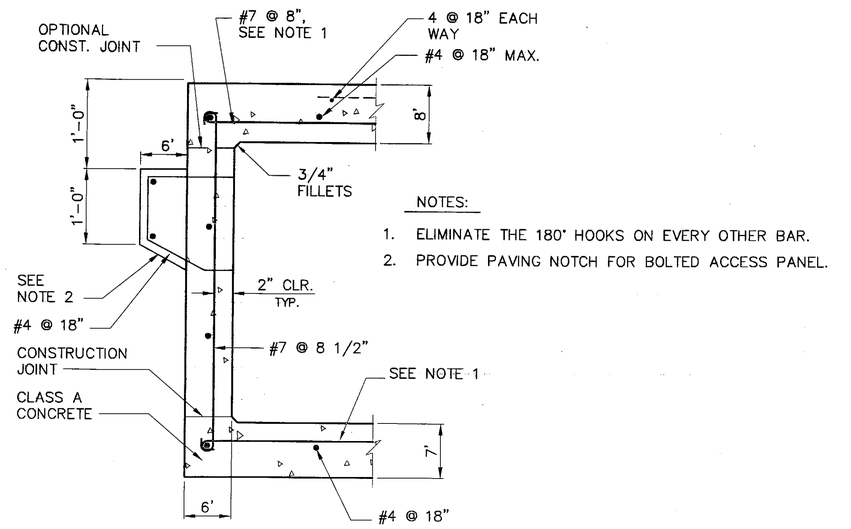
Proj. Eng _____ Date 5.31.06



NOTE:

EXISTING FLUME LOCATION IS APPROXIMATE AND IS SHOWN FOR THE PURPOSE OF ILLUSTRATION ONLY. LOCATIONS SHALL BE FIELD VERIFIED BEFORE CONSTRUCTION COMMENCES.

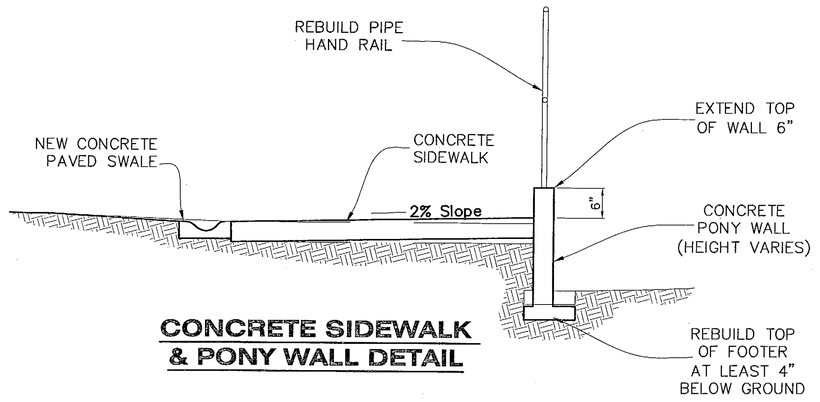
PLAN



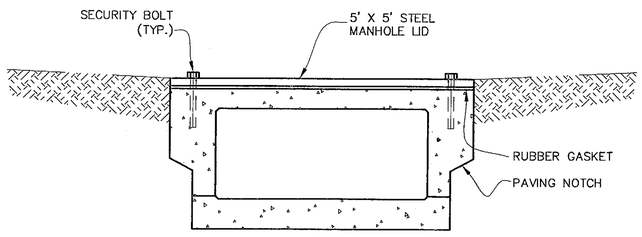
NOTES:

1. ELIMINATE THE 180° HOOKS ON EVERY OTHER BAR.
2. PROVIDE PAVING NOTCH FOR BOLTED ACCESS PANEL.

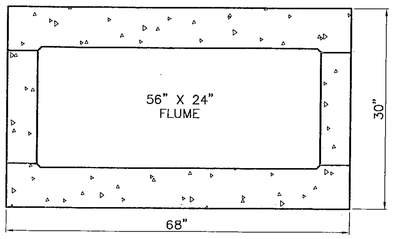
CONCRETE FLUME TYPICAL SECTION

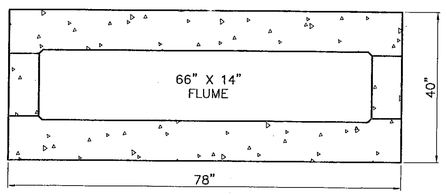


CONCRETE SIDEWALK & PONY WALL DETAIL



SECURITY BOLTED ACCESS PANEL DETAIL





CONCRETE FLUME DETAIL

PATH: Q:\ktn\71811A\Planset\N_DrainAreas.dwg
Mon, 05/May/02 10:52AM
PLOT: Michael Limbaugh
PSPACE: 1=1(F) OR MSPACE: 1=32(F)
TAB: AREA-N2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Offsite Drainage Improvements Area 2 Layout Plan

DESIGNED BY: J. OSBURN

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

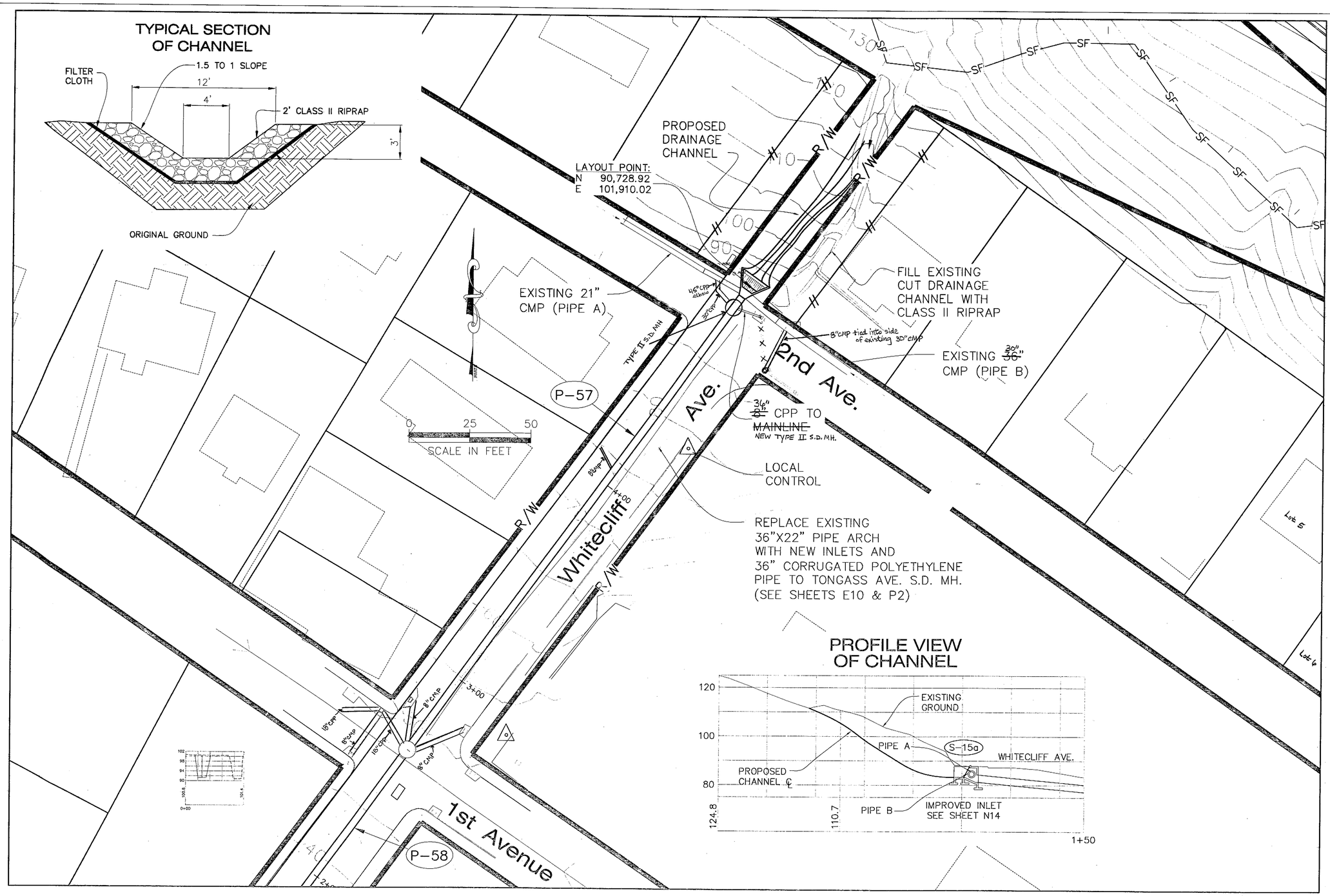
Offsite Drainage Improvements Area 2 Layout Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N10	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10/06

TYPICAL SECTION OF CHANNEL



PROFILE VIEW OF CHANNEL

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490
DRAINAGE IMPROVEMENTS
AREA 3

PATH: Q:\Ktn\71811A\Planset\N_DrainAreas.dwg
Mon, 06/May/02 10:51AM Michael Limbaugh
PLOT: PSPACE: 1=1(F) OR MSPACE: 1=32(F)
TAB: AREA-N2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Offsite Drainage Improvements Area 3 Layout Plan

DESIGNED BY: J. OSBURN

STATE OF ALASKA
49th
TRACY W. MOORE
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

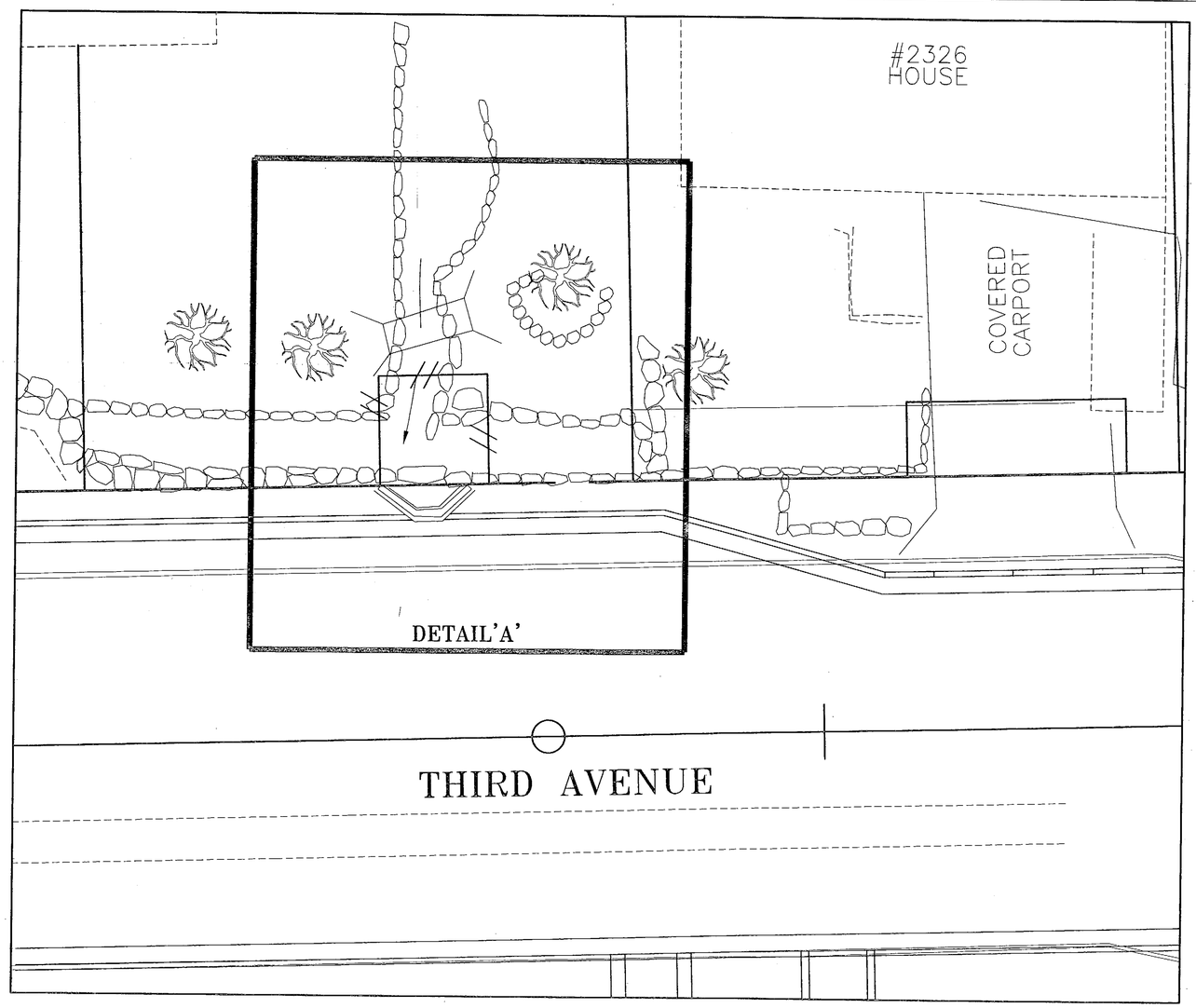
THIRD AVENUE EXTENSION
PROJECT NO. 68490

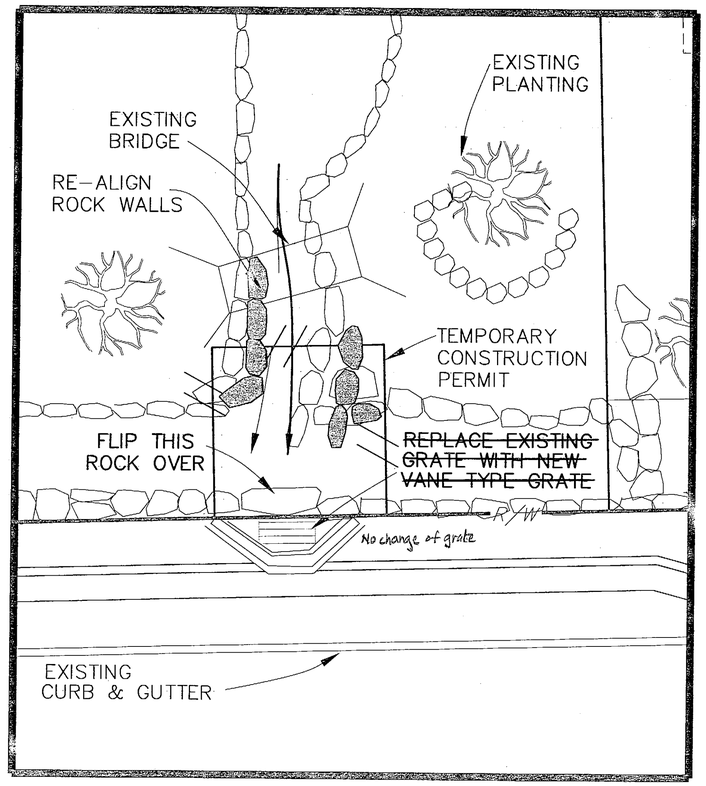
Offsite Drainage Improvements Layout Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N11	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06





DETAIL'A'

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490
DRAINAGE IMPROVEMENTS
AREA 4

PATH:
Q:\Ktn\71811A\Planset\N_DrainAreas.dwg
Mon, 06/May/02 10:51AM Michael Limbaugh
PLOT:
PSPACE: 1=1(F) OR MSPACE: 1=32(F)
TAB: AREA-N2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Offsite Drainage Improvements
Area 4 Layout Plan

DESIGNED BY: J. OSBURN

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

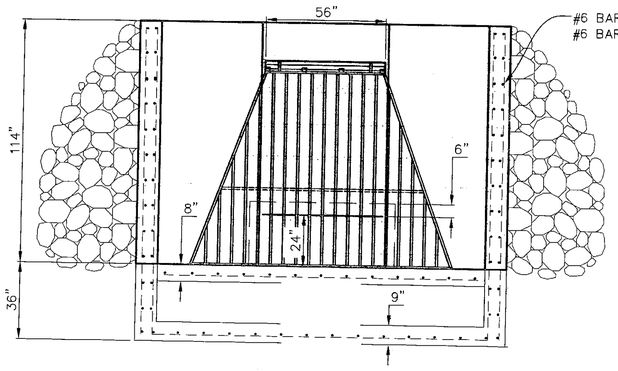
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Offsite Drainage Improvements Layout Plan

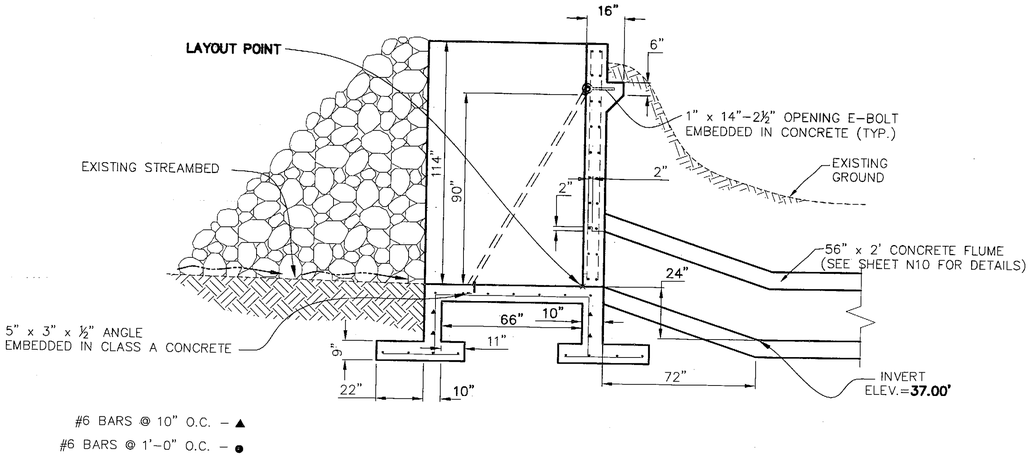
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N12	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

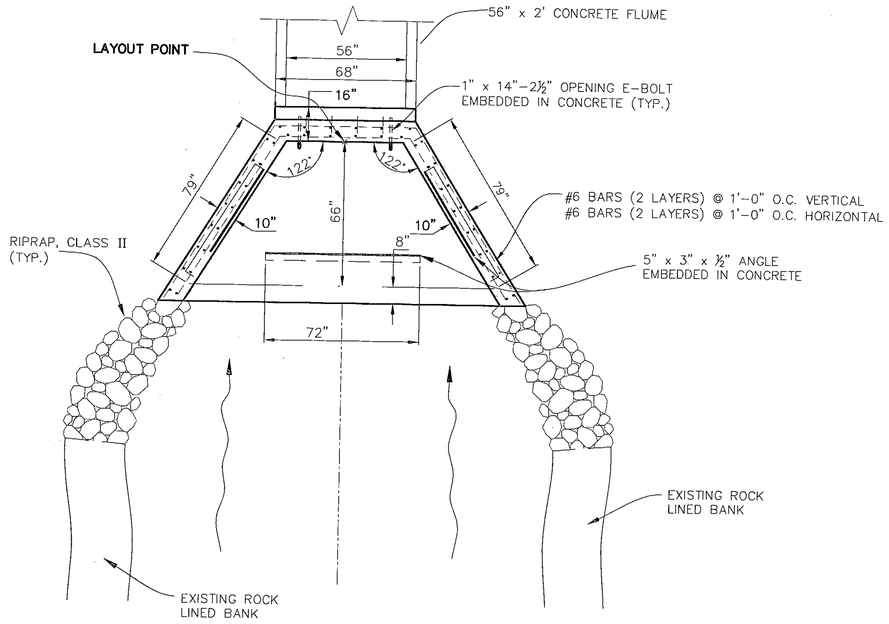
Proj. Eng _____ Date 10-1-06



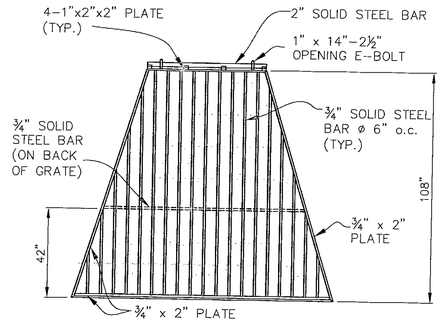
Front Profile View



Side Profile View



Inlet Plan View



Grate Plan View

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490
DRAINAGE IMPROVEMENTS
AREA 2

PATH:
Q:\Ktn\71811A\Planset\N_DrainAreas.dwg
Mon, 06/May/02 10:51AM Michael Limbaugh
PLOT:
PSPACE: 1=1(F) OR MSPACE: 1=32(F)
TAB: AREA-N2

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Offsite Drainage Improvements Layout Plan

DESIGNED BY: J.OSBURN

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

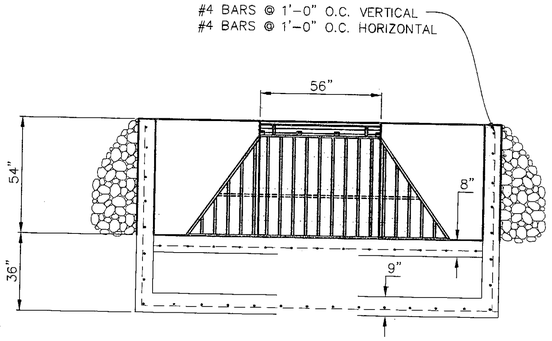
CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
THIRD AVENUE EXTENSION
PROJECT NO. 68490
Offsite Drainage Improvements Layout Plan

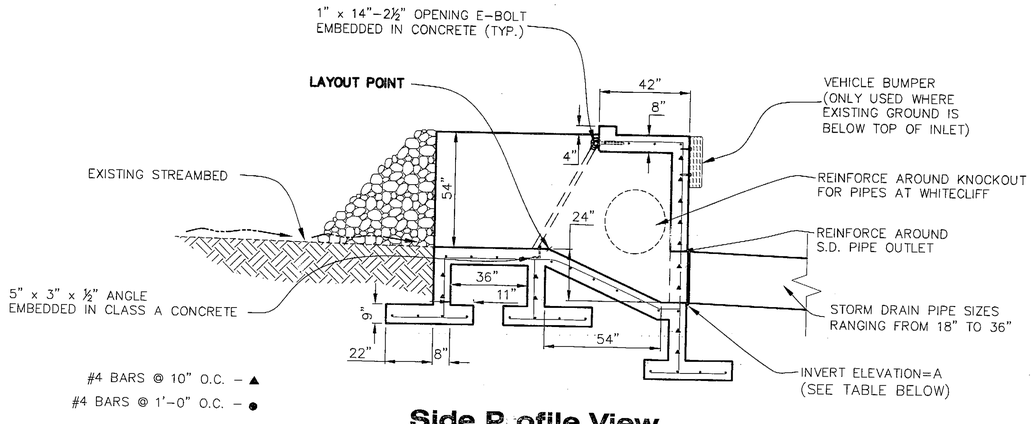
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N13	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

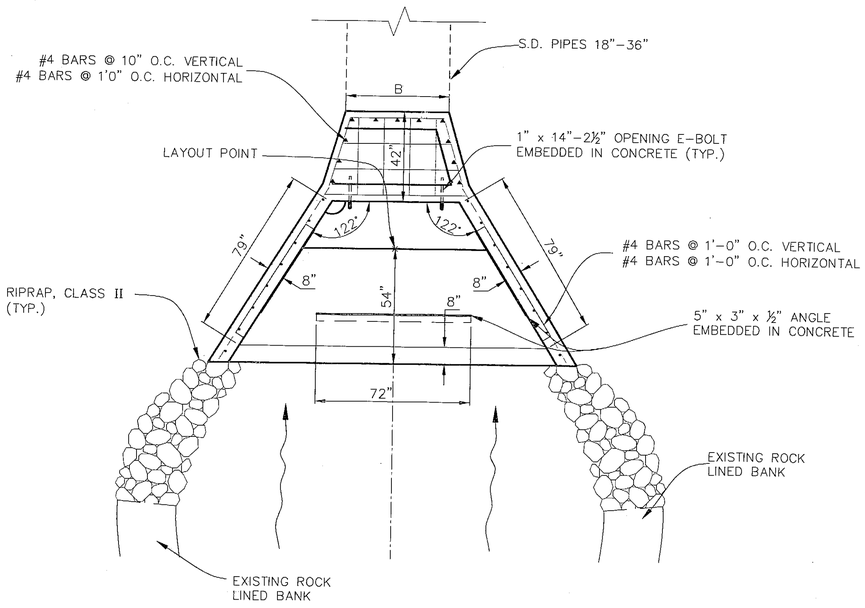
Proj. Eng _____ Date 10-31-06



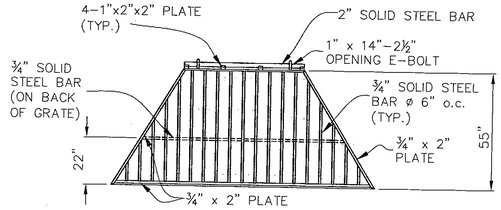
Front Profile View



Side Profile View



Inlet Plan View



Grate Plan View

IMPROVED INLET VARIABLES		
INLET NAME	A	B
GORGE ST.	158.73'	18" CMP
WHITECLIFF AVE.	81.87'	36" CPP
S-15a	153.24'	36" CPP

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490
DRAINAGE IMPROVEMENTS

PATH:
Q:\Ktn\71811A\Planset\N_DrainAreas.dwg
Mon, 06/May/02 10:51AM Michael Limbaugh
PLOT:
PSPACE: 1=1(F) OR MSPACE: 1=32(F)
TAB: AREA-N2

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Offsite Drainage Improvements Layout Plan

DESIGNED BY: J.OSBURN

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

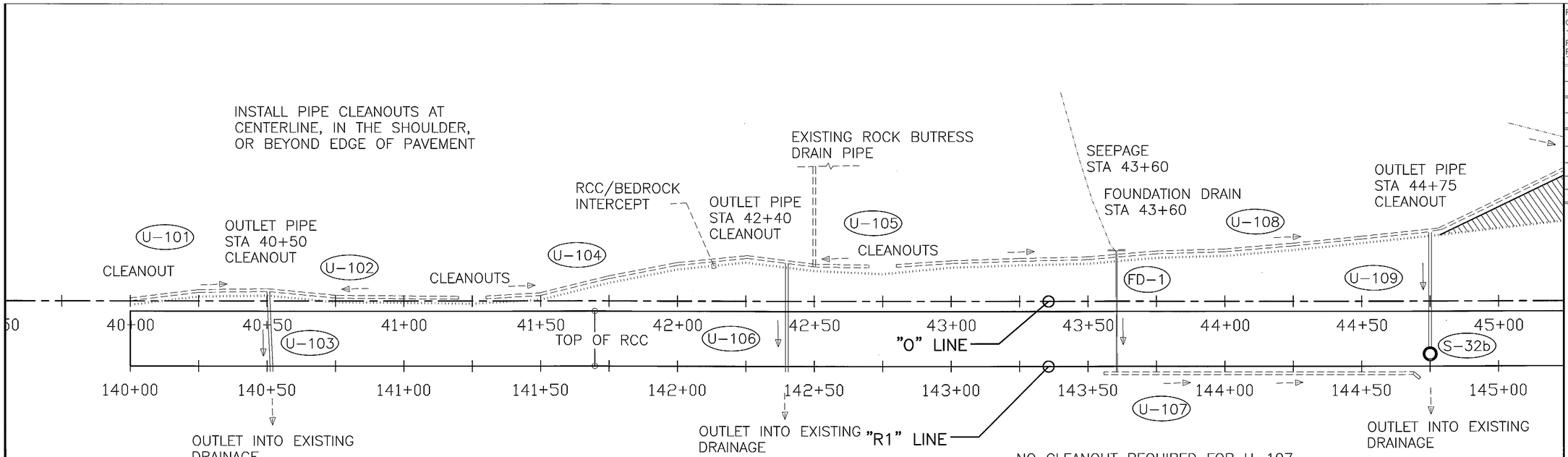
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Offsite Drainage Improvements Layout Plan

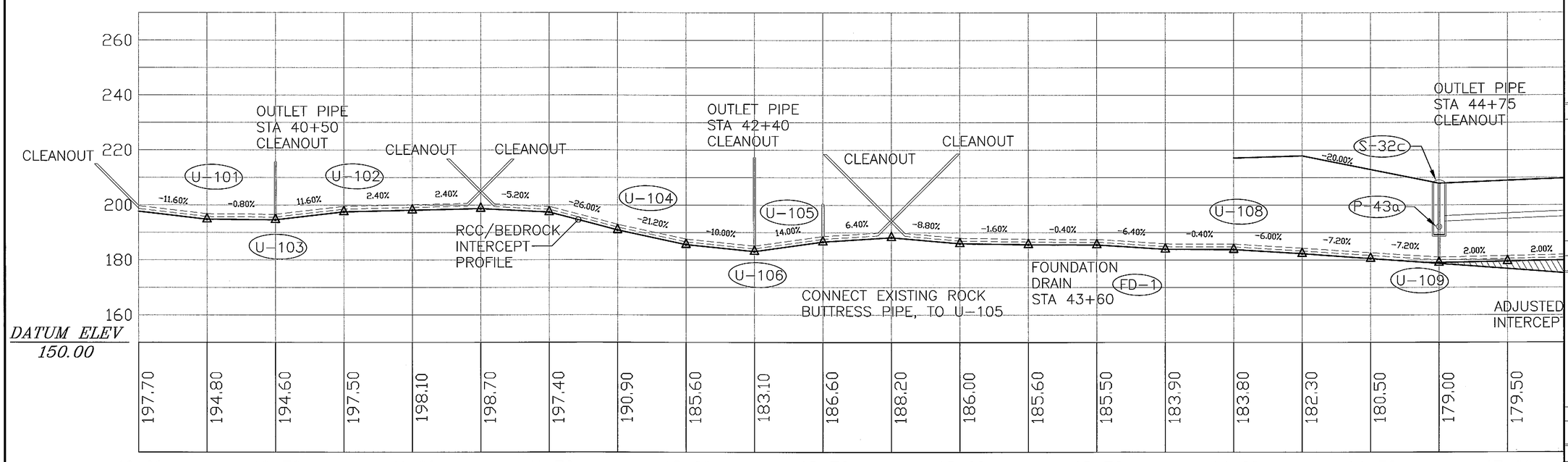
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N14	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



UNDERDRAIN PLAN



PROFILE ELEVATIONS SHOWN FOR RCC/BEDROCK INTERCEPT

UNDERDRAIN PROFILE

PROFILE NOT SHOWN FOR U-107(FRONT OF WALL)
SLOPE MINIMUM 1% OUTLET INTO EXISTING DRAINAGE

PATH: Q:\Ktn\71811A\En\p\3rdst\REVISON\FINAL DRAF
Tue, 28/Jun/05 10:44AM rksnyder
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: REVISED_N15-A

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

REVISED
Underdrain Profile

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10/31/06

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

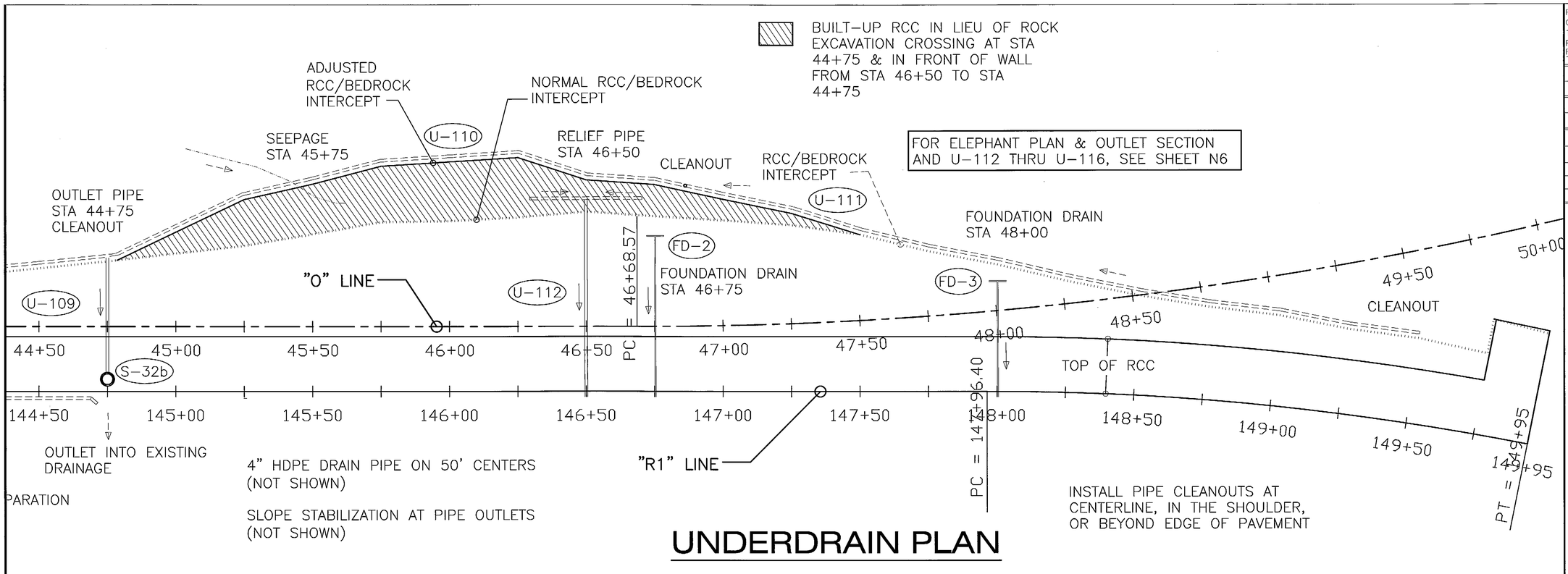
DRAWN BY: M. LIMBAUGH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

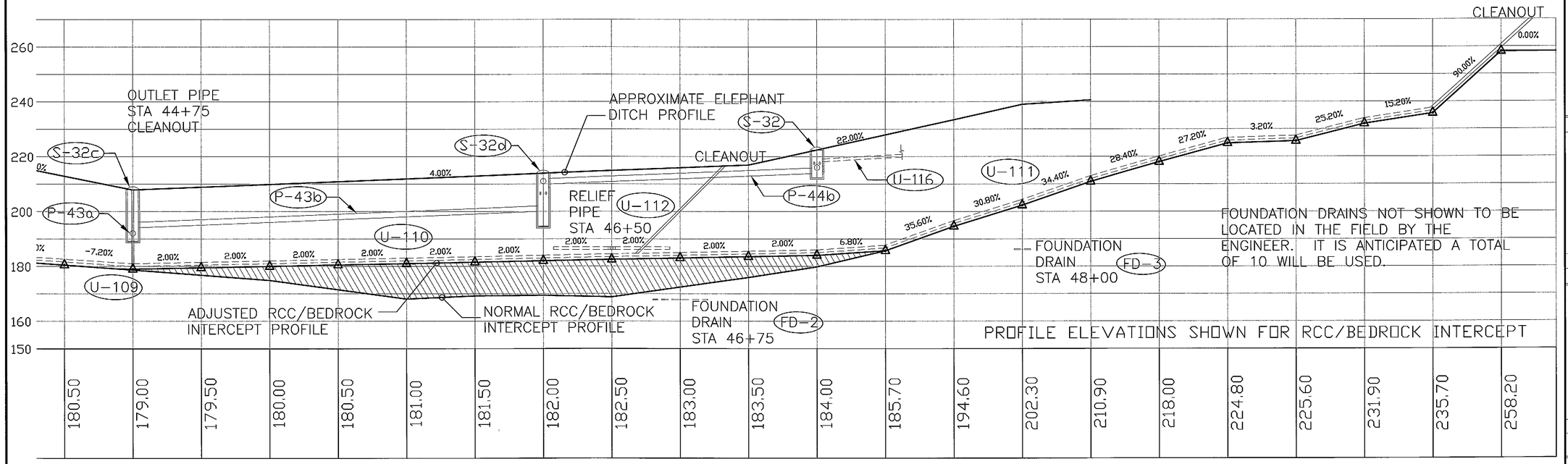
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Underdrain Profile

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N15A	146



UNDERDRAIN PLAN



UNDERDRAIN PROFILE

PATH: Q:\Ktn\71811A\En\p\3rdst\REVISON\FINAL DRAF
Tue, 28/Jun/05 10:45AM rksnyder
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: REVISED_N15-B

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

REVISED
Underdrain Profile

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

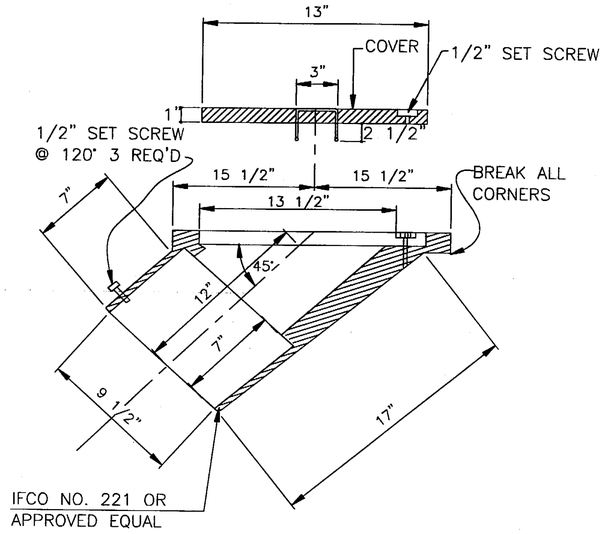
DRAWN BY: M. LIMBAUGH

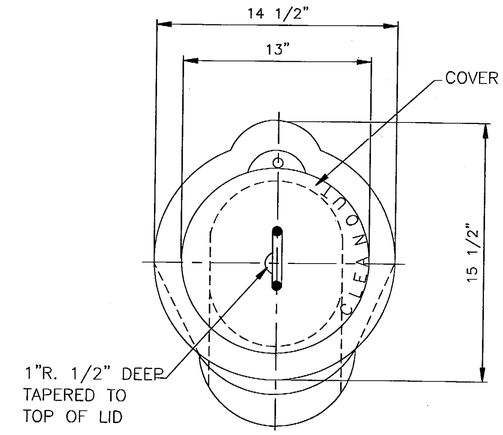
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

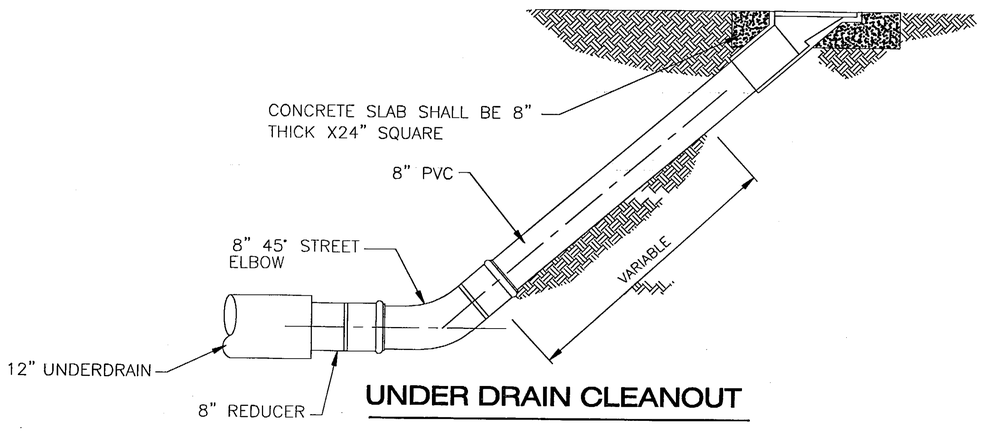
Underdrain Profile

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N15B	146

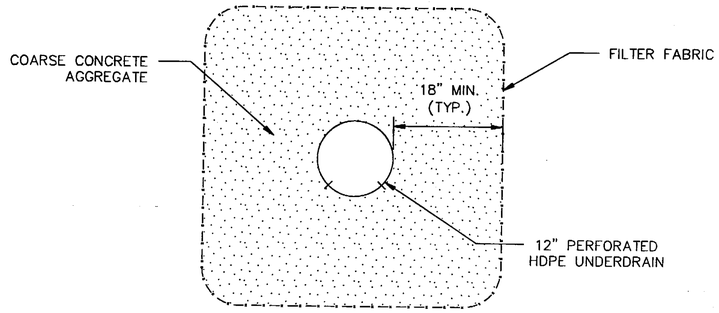




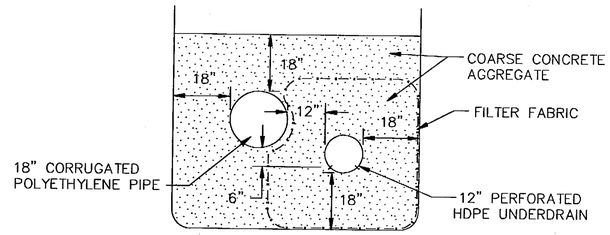
CLEANOUT FRAME & COVER



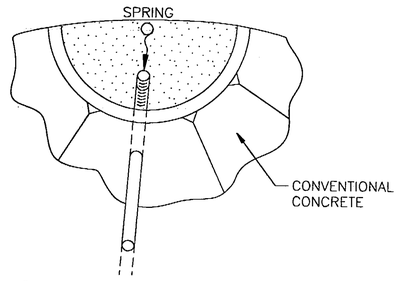
UNDER DRAIN CLEANOUT



Typical Underdrain Detail



Dual Pipe Trench Detail



Foundation Drain Detail

PATH:
Q:\Ktn\71811A\Planset\N_Underdrain Details.dwg
Mon, 06/May/02 11:07AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: N16

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

RCC Wall Underdrain Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: M. LIMBAUGH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

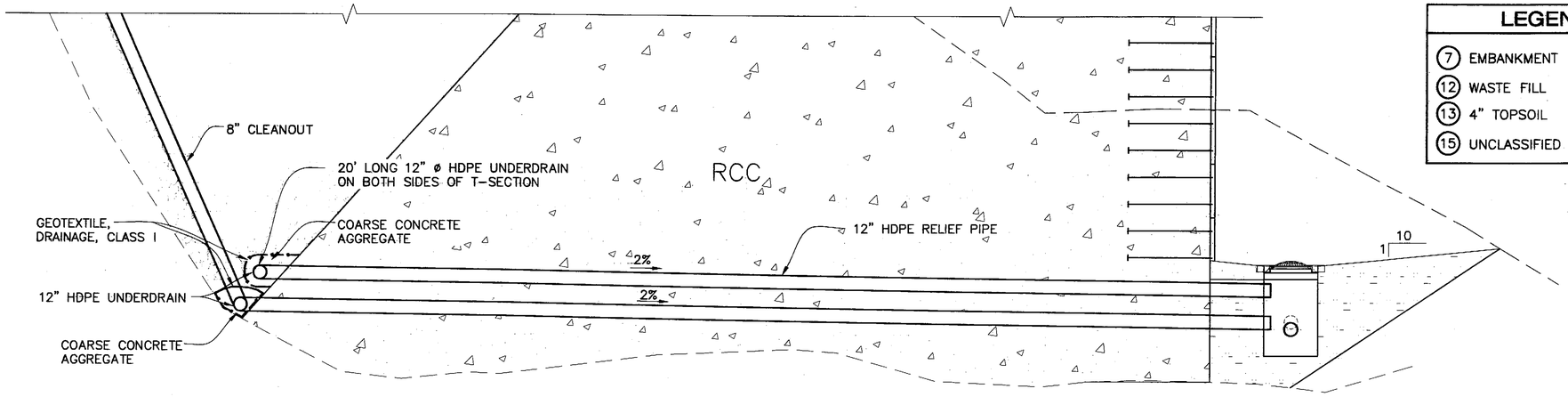
THIRD AVENUE EXTENSION
PROJECT NO. 68490

RCC Wall Underdrain Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N16	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

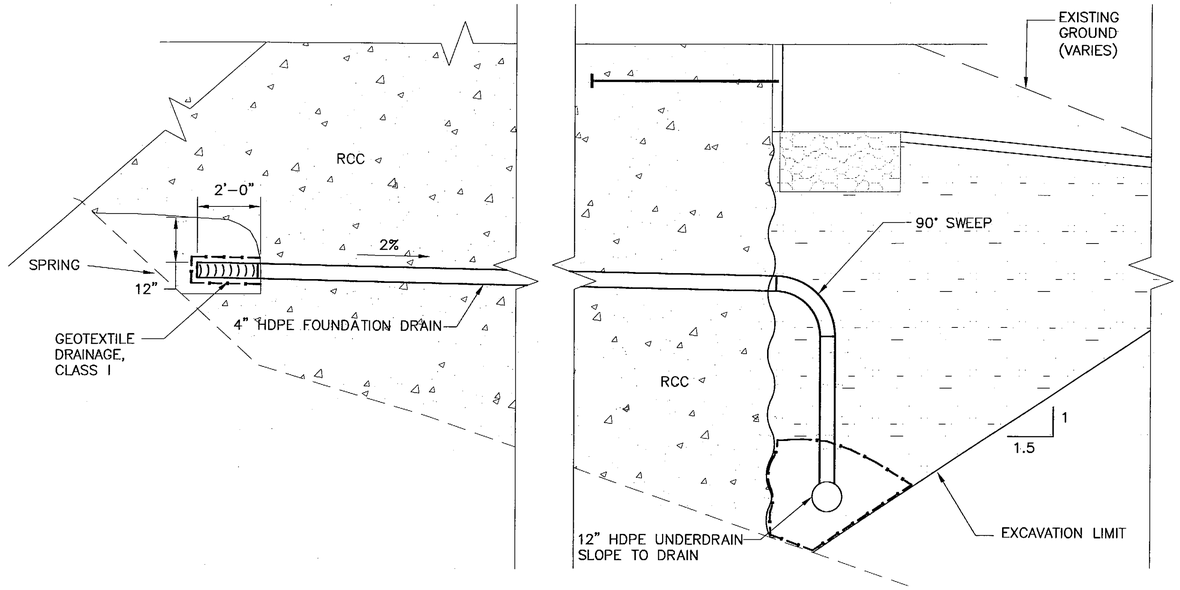
Proj. Eng. _____ Date 10-31-06



LEGEND

- (7) EMBANKMENT
- (12) WASTE FILL
- (13) 4" TOPSOIL
- (15) UNCLASSIFIED EXCAVATION

Sta. 46+50 Underdrain Detail



Foundation Drain Detail

NOTES:

1. CONSTRUCT UNDERDRAIN WITH A MINIMUM 1% SLOPE. PIPE PROFILE MAY REQUIRE ROCK EXCAVATION AND/OR BE BUILT UP WITH RCC TO BE BROUGHT TO GRADE.
2. FOR CLEANOUT DETAILS, SEE SHEET N16.

PATH:
Q:\Ktn\71811A\Planset\N_Underdrain Details.dwg
Tue, 07/May/02 09:15AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: N17

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

RCC Wall Underdrain Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: M. LIMBAUGH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

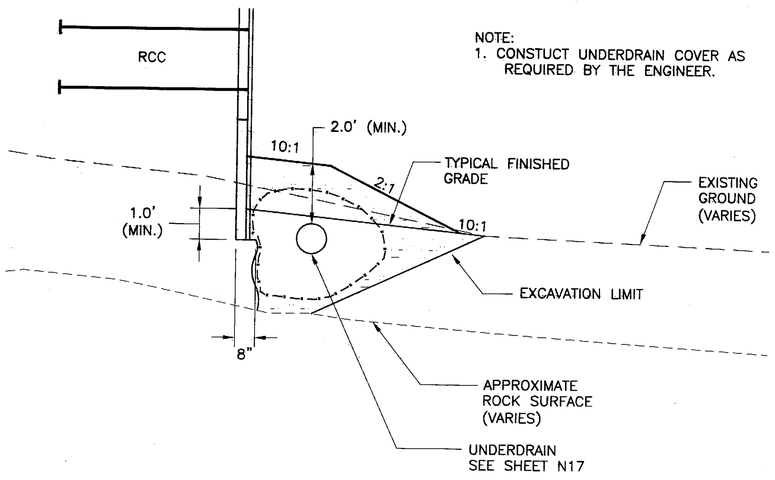
THIRD AVENUE EXTENSION
PROJECT NO. 68490

RCC Wall Underdrain Details

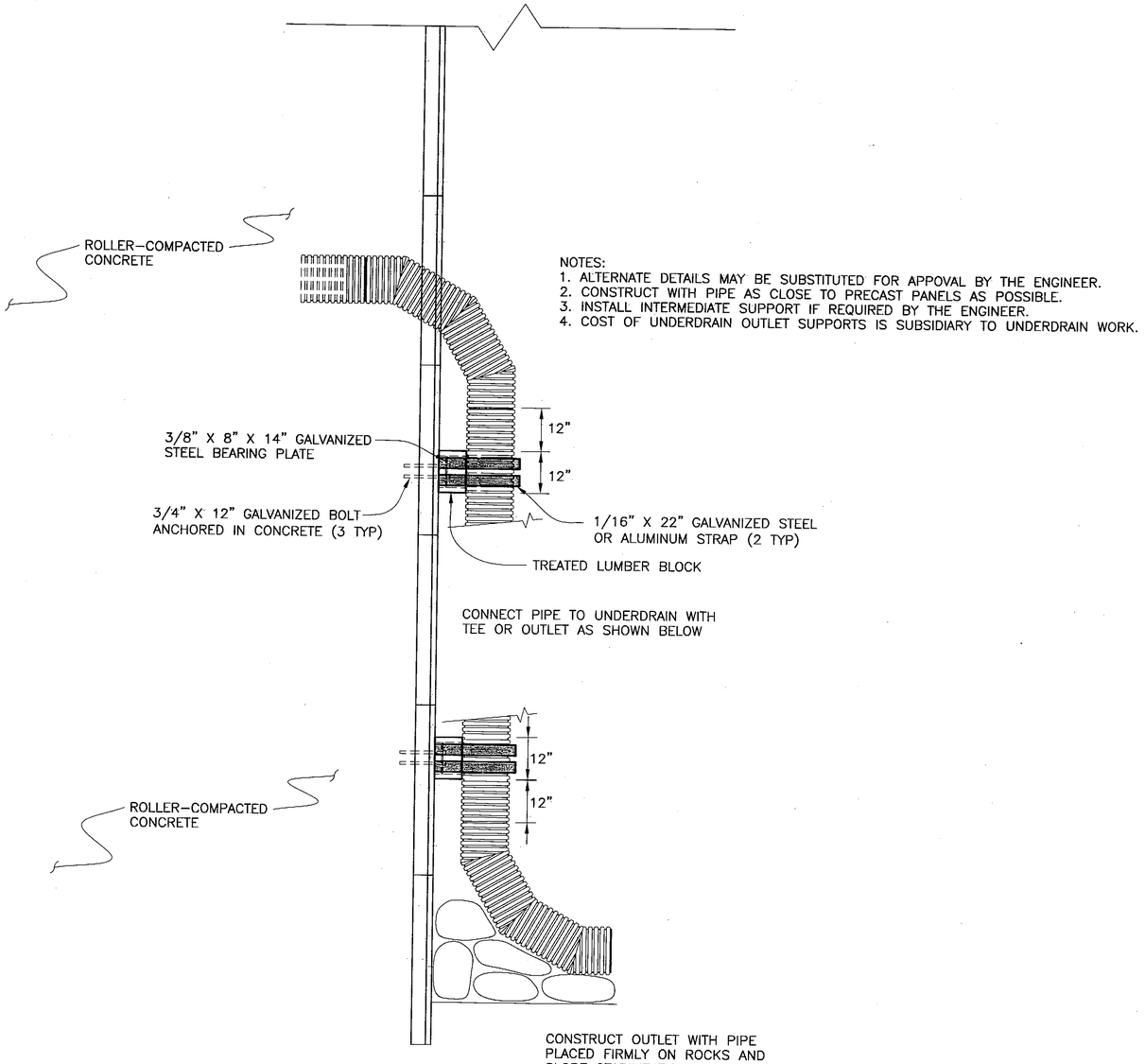
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N17	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 5/3/06



Underdrain Cover Detail



Underdrain Outlet Support Detail

PATH:
Q:\Ktn\71811A\Planset\N_Underdrain Details.dwg
Tue, 07/May/02 09:15AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: N18

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Underdrain Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: M. LIMBAUGH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION PROJECT NO. 68490

Underdrain Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N18	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10-31-06

Begin Project
Sta. "O" 20+25
N 91,326.1583
E 100,873.4967

STA. "O" 23+00=
STA. "A" 10+00
N 91,333.359
E 101,148.402

"O" LINE
DELTA=36°44'31"
R=575.00
L=368.73
T=190.95

"O" PC = 24+60.54

"O" PT = 28+29.27

S54°45'31"E
1839.30'

THIRD AVENUE

AUSTIN ST

WASHINGTON ST

WEST 3RD AVE

OBLITERATE EXISTING ROADWAY

EXISTING LOG WALL

#2326 HOUSE
COVERED CARPORT
#2327 HOUSE
GARAGE
#2321 HOUSE
#430 HOUSE
#2221 HOUSE
#2148 HOUSE
#2144 HOUSE
#314 HOUSE

LEGEND

- SF — SILT FENCE
- PROFILE DRAINAGE PATTERN
- SURFACE DRAINAGE PATTERN
- CULVERT FLOW DIRECTION
- DITCH DRAINAGE PATTERN
- TEMPORARY DITCH BLOCKING
- PERMANENT DITCH BLOCKING, SEE DETAIL ON SHEET N24.
- PROPOSED CURB INLET
- AREA DRAIN
- EXISTING CURB INLET
- SLOPE STABILIZATION
- AREA OF LAND TO BE DISTURBED (EXPOSED SOIL)

PATH:
Q:\Ktn\71811A\Planset\N_ESCP.dwg
Tue, 07/May/02 09:13AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: N19

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Erosion & Sediment Control Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Erosion & Sediment Control Plan

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N19	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06

CONSTRUCTION ACTIVITIES WITHIN THE 330' RADIUS AROUND THE EAGLE NEST SHALL CONFORM TO THE REQUIREMENTS OF SECTION 107-1.01. SEE SHEET K1 FOR OVERALL VIEW.

THIRD AVENUE

34+00 35+00 36+00 37+00 S54°45'31"E 1839.30' 38+00 39+00 40+00 41+00 42+00

R/W

EXISTING LOG WALL

THIRD AVENUE

42+00 43+00 44+00 45+00 S54°45'31"E 1839.30' 46+00 47+00 48+00 49+00 50+00

"O" PC = 46+68.57

ELEPHANT DITCH

EXISTING LOG WALL

"O" LINE
DELTA=24°30'21"
R=1500.00
L=641.56
T=325.76

PATH:
Q:\Ktn\71811A\Planset\N_ESCP.dwg
Tue, 07/May/02 09:13AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: N20

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Erosion & Sediment Control Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

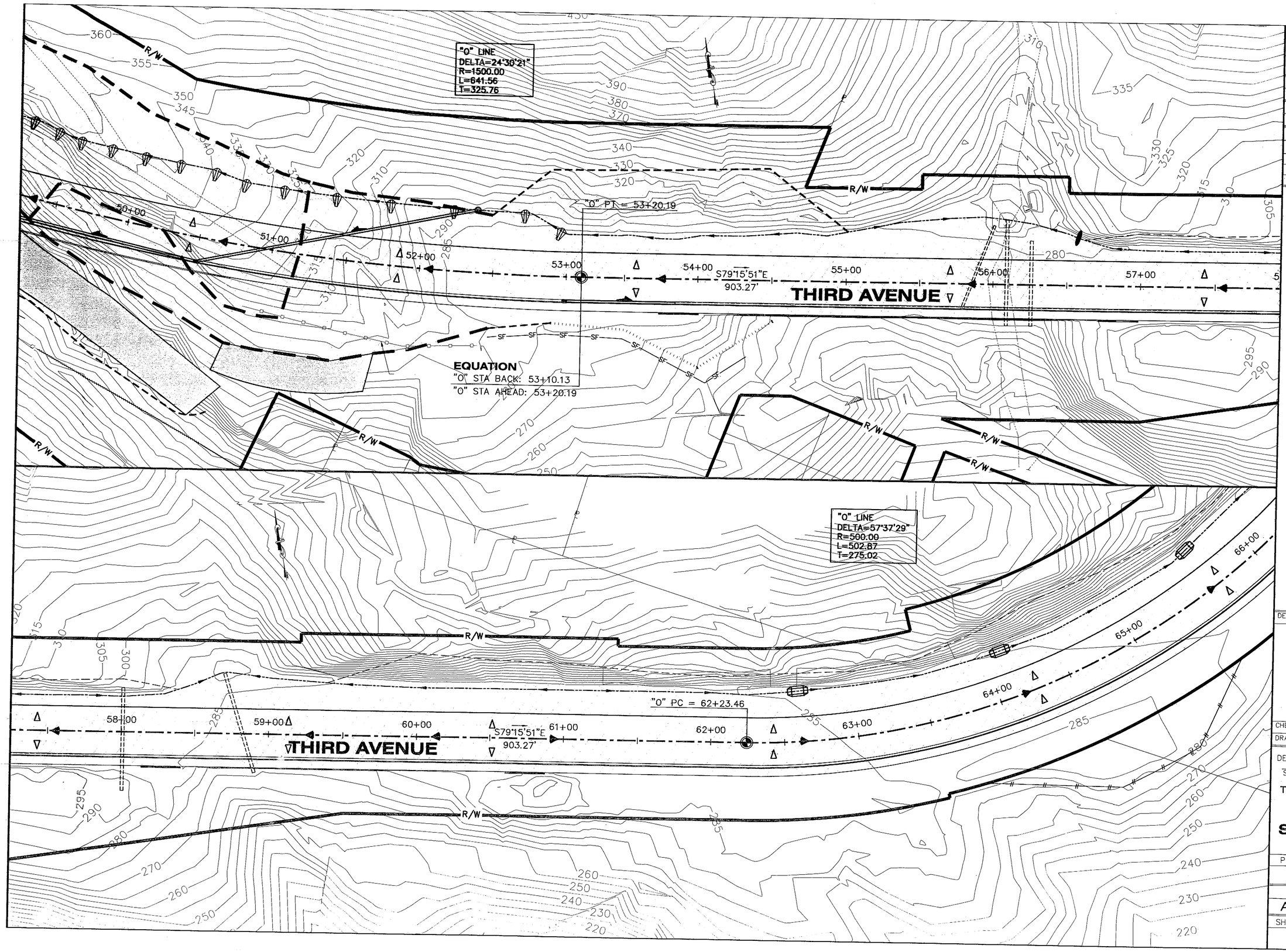
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Erosion & Sediment Control Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N20	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10-9-06



PATH:
Q:\Ktn\71811A\Planset\N_ESCP.dwg
Tue, 07/May/02 09:13AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: N21

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Erosion & Sediment Control Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

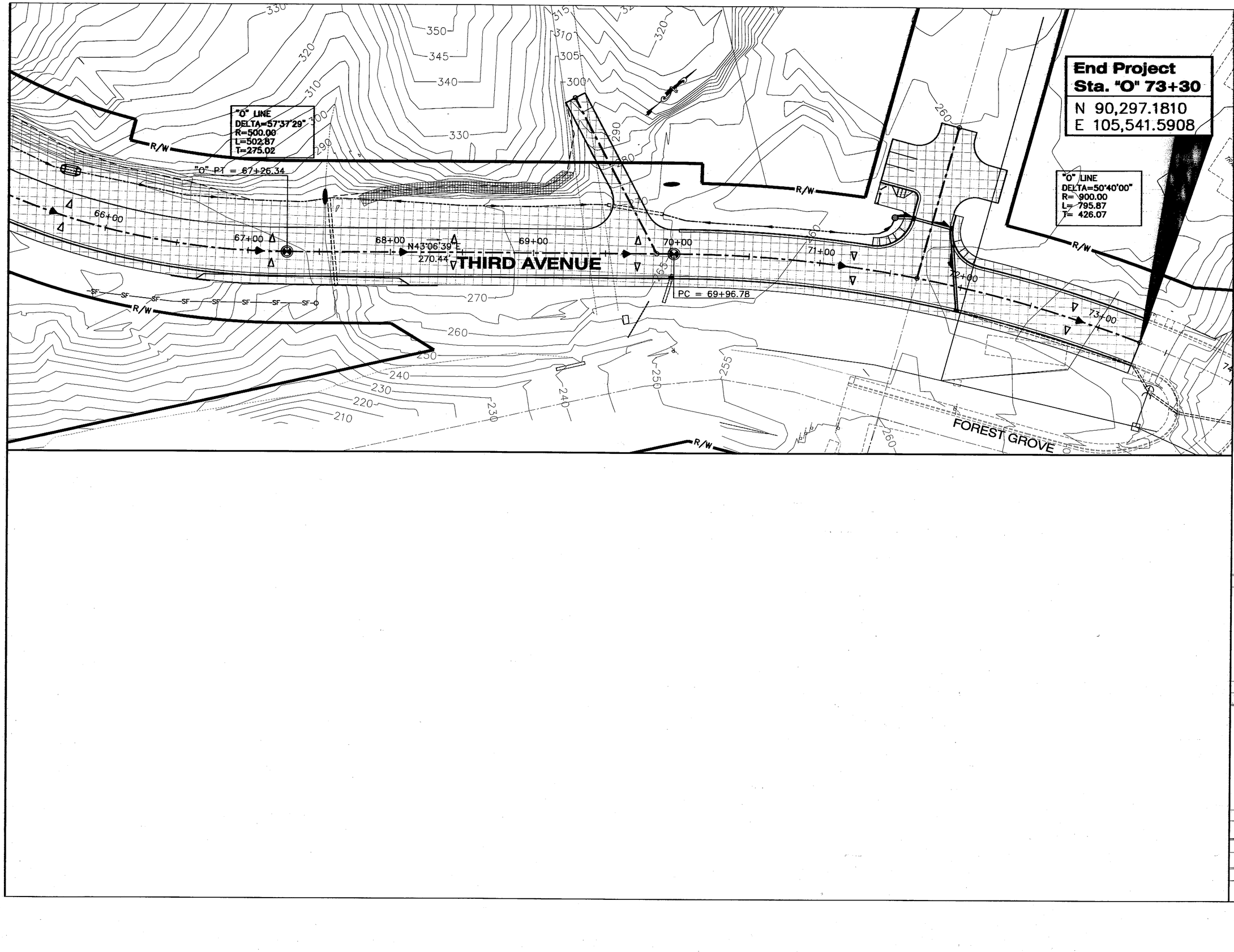
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Erosion & Sediment Control Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N21	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



PATH: Q:\Ktn\71811A\Planset\N_ESCP.dwg
Tue, 07/May/02 09:14AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: N22

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Erosion & Sediment Control Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION.

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Erosion & Sediment Control Plan

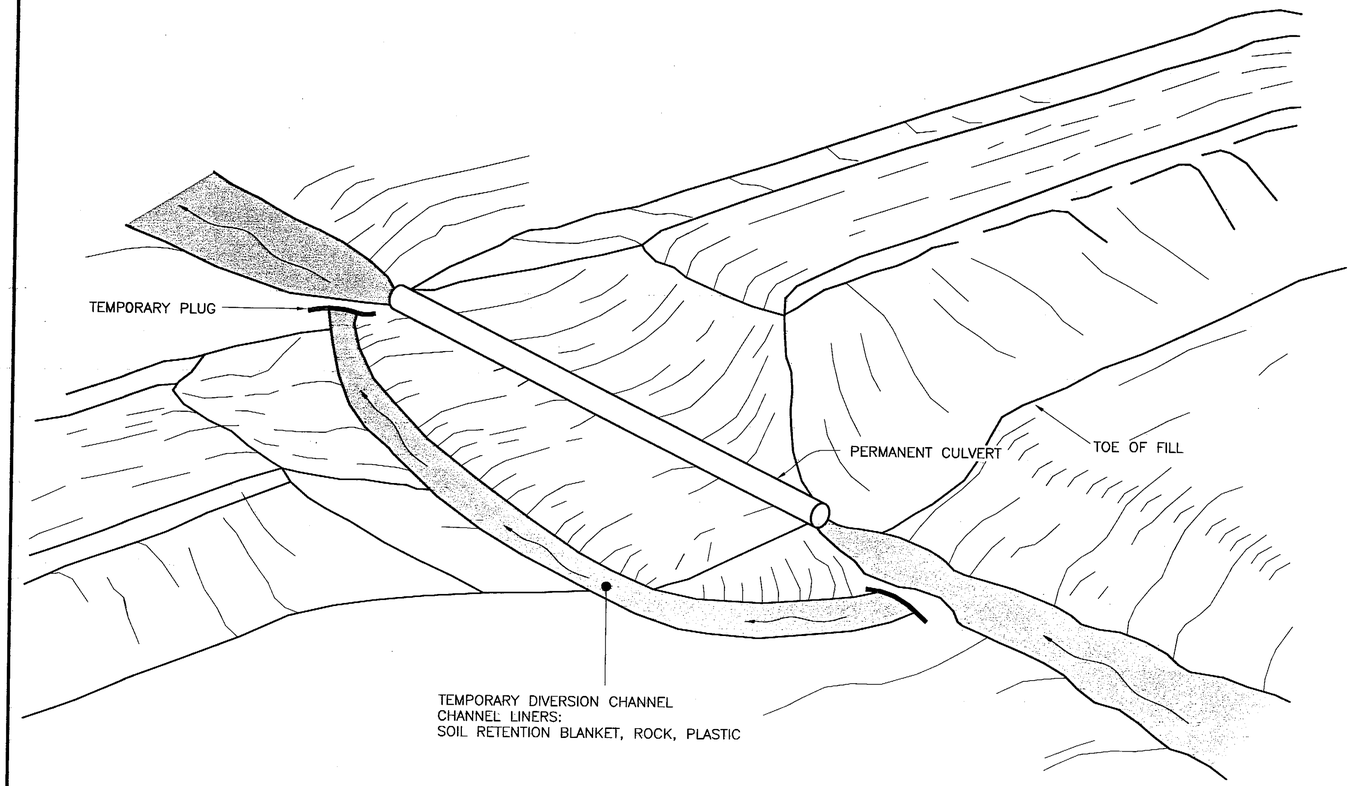
PROJECT DESIGNATION NUMBER

STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N22	146

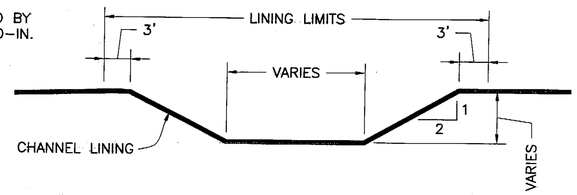
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-8-06

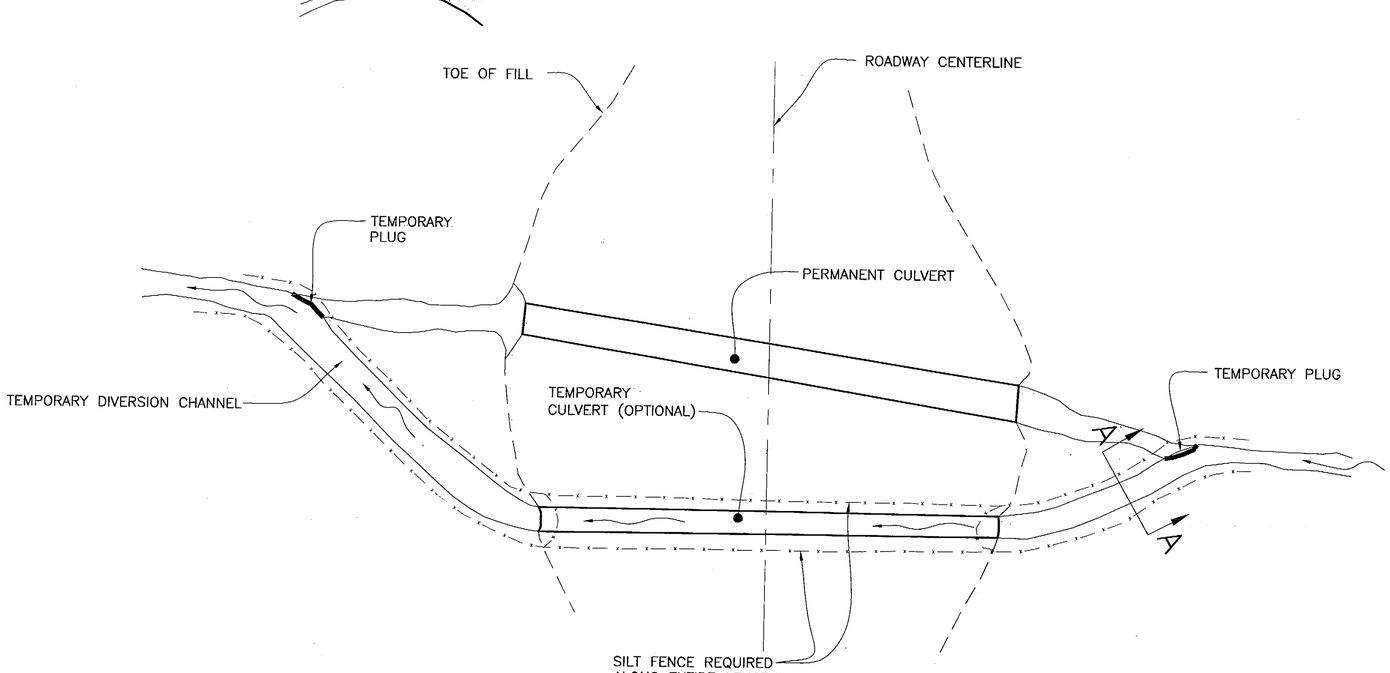


TEMPORARY DIVERSION
ISOMETRIC VIEW

LINING EDGES TO BE BURIED BY EARTH MOUND OR TRENCHED–IN.



SECTION A-A



DIVERSION FOR CULVERT INSTALLATION

PATH:
Q:\Ktn\71811A\Planset\N_ESCP.dwg
Tue, 07/May/02 09:14AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: CULVERT DIVERSION_23

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Culvert or Ditch Installation By-Pass

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

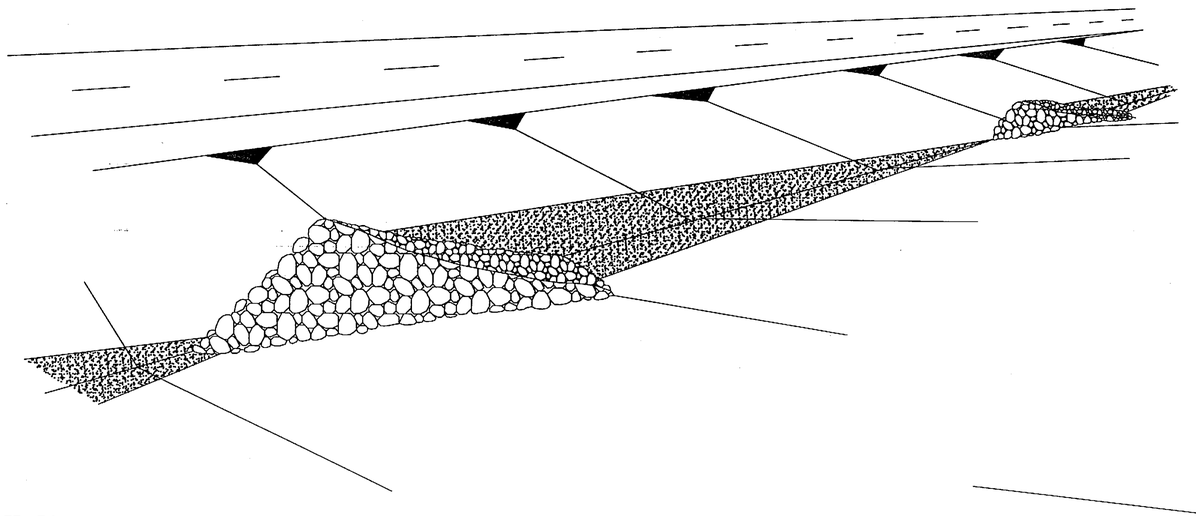
Culvert or Ditch Installation By-Pass

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N23	146

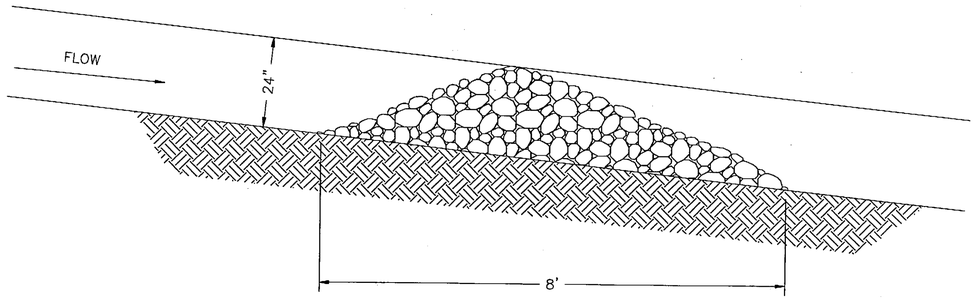
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06

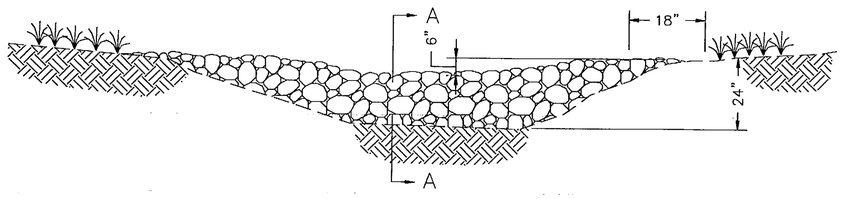
DITCH BLOCK



DEFINITION: A SMALL TEMORARY DAM CONSTRUCTED IN A SWALE OR CHANNEL.

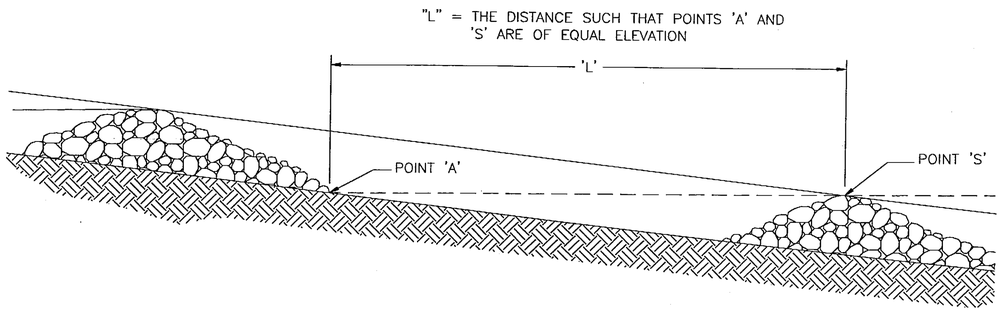


SECTION A-A



VIEW LOOKING UPSTREAM

NOTE:
KEY STONE INTO THE DITCH BANKS AND EXTEND IT BEYOND TH ABUTMENTS A MINIMUM OF 18" TO PREVENT OVER FLOW AROUND DAM.



SPACING BETWEEN DITCH BLOCKING

PATH:
Q:\Ktn\71811A\Planset\N_ESCP.dwg
Mon, 06/May/02 11:03AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: DITCH CHECKS_24

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Ditch Block Installation Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Troy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Ditch Block Installation Details

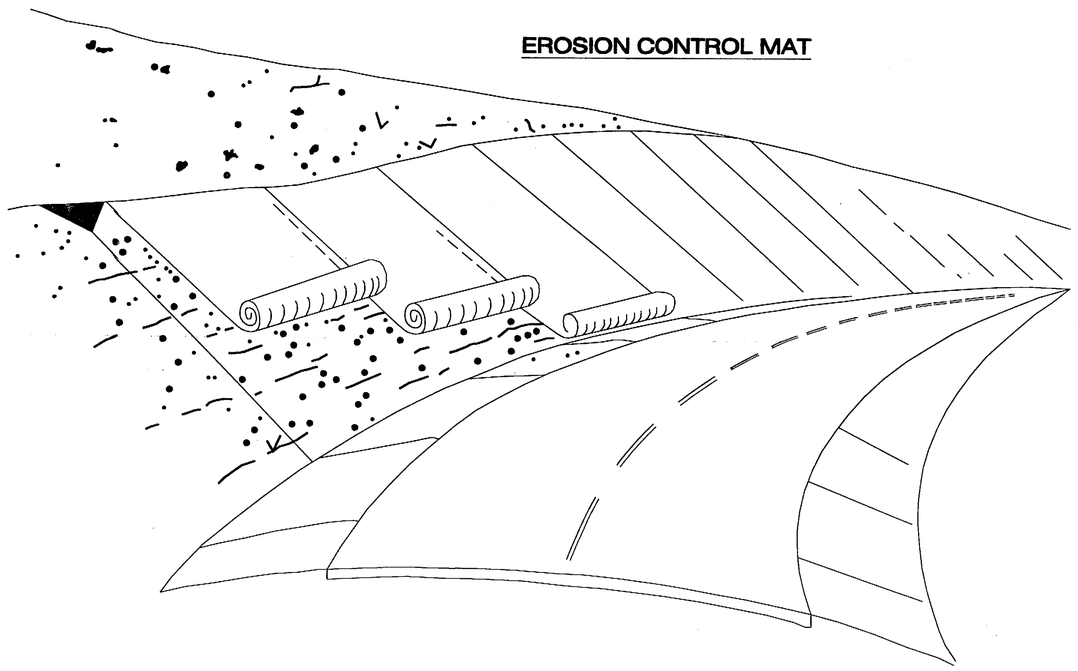
PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N24	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

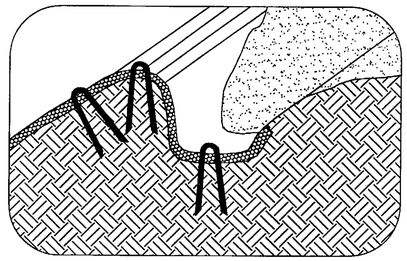
Proj. Eng _____ Date 10.31.06

EROSION CONTROL MAT

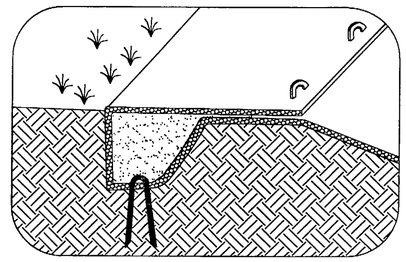


DEFINITION

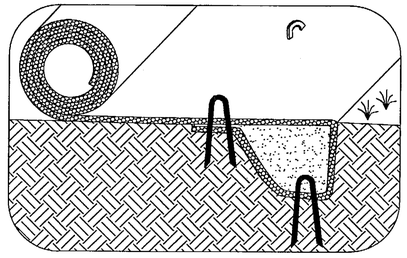
A NATURAL OR SYNTHETIC MAT INSTALLED ON STEEP SLOPES AND/OR PREPARED VEGETATIVE SEED BEDS TO REDUCE SOIL SURFACE EROSION



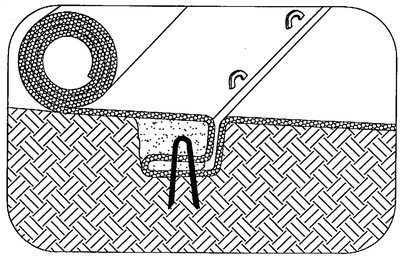
LONGITUDINAL ANCHOR TRENCH



TERMINAL SLOPE AND CHANNEL ANCHOR TRENCH



INTIAL CHANNEL ANCHOR TRENCH

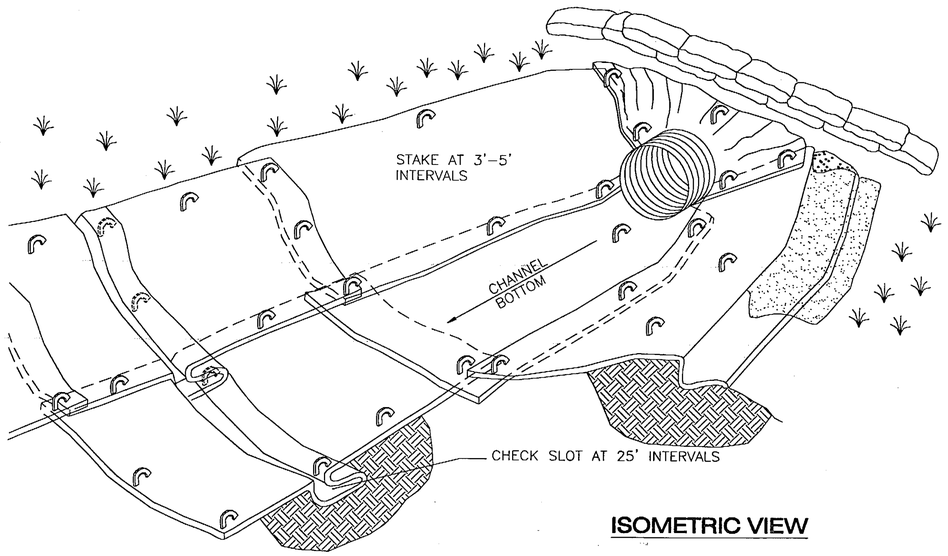


INTERMITTENT CHECK SLOT

NOTES:

1. CHECK SLOTS TO BE CONSTRUCTED PER MANUFACTURES SPECIFICATIONS.
2. STAKING OR STAPLING LAYOUT PER MANUFACTERES SPECIFICATIONS.

EROSION BLANKETS & TURF REINFORCEMENT MATS CHANNEL INSTALLATIONS



ISOMETRIC VIEW

PATH:
Q:\Ktn\71811A\Planset\N_ESCP.dwg
Mon, 06/May/02 11:04AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SEDIMENT MATS_25

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sediment Mat Installation Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION PROJECT NO. 68490

Sediment Mat Installation Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N25	146

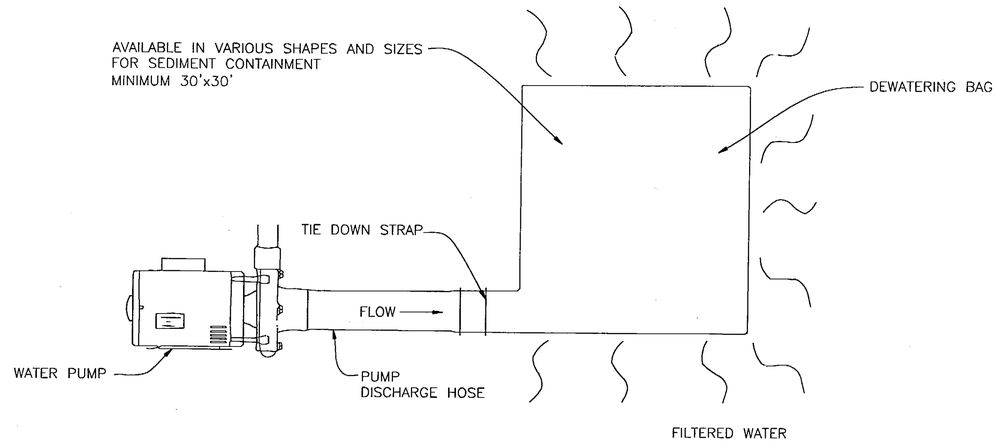
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06

The Dewatering Bag is designed to control sediment discharge in dewatering applications where water is being pumped.

Installation

1. Lifting straps, not included, should be placed under the Dewatering Bag to facilitate removal after use.
2. Place the Dewatering Bag on a level stabilized area over dense vegetation/straw, or gravel (if increased drainage surface area is needed) or as detailed in plans.
3. Insert discharge hose from pump into the Dewatering Bag a minimum of six inches (6") and tightly secure with attached strap to prevent water from flowing out of the unit without being filtered.
4. Replace the unit when one half (1/2) full of sediment or when sediment has reduced the flow fate of the pump discharge to an impractical rate.



Maintenance

Remove and dispose of the sediment in a manner satisfactory to the engineer/inspector or in one of the following ways:

1. Remove the unit and sediment from environmentally sensitive area and waterways. At the approved disposal site open or slit the unit, remove sediment and grade smoothly into existing topography. Dispose of the Dewatering Bag, no longer in use, at an appropriate recycling or solid waste facility.
2. Bury unit on site; remove visible fabric and seed.

Sediment Filter (Dewatering) Bag Plan Insert

PATH:
Q:\Ktn\71811A\Planset\N_ESCP.dwg
Mon, 06/May/02 11:04AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: DIRT BAGS_26

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sediment Filter Bag Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sediment Filter Bag Details

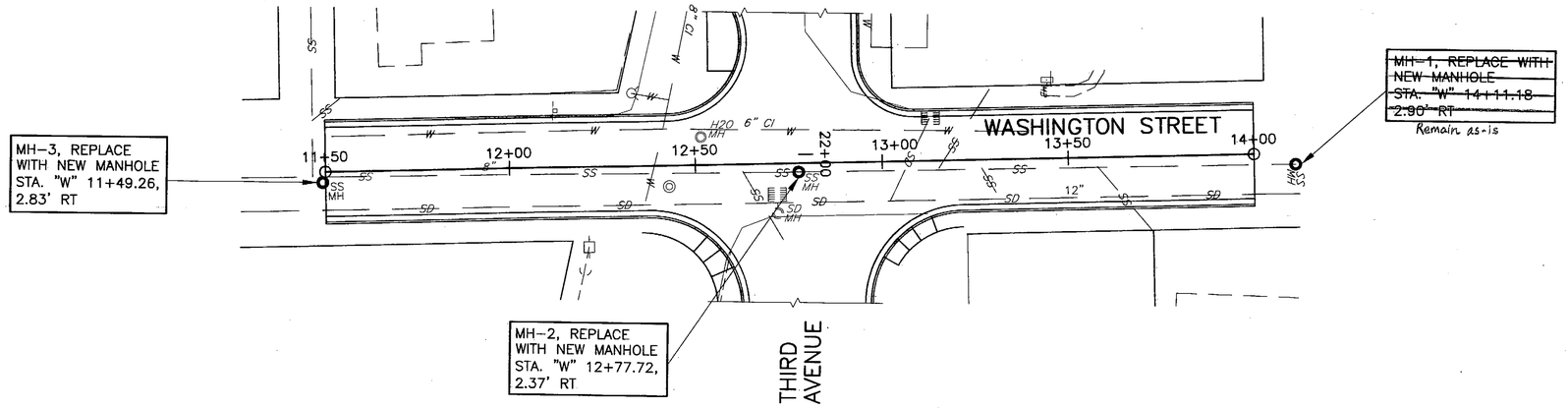
PROJECT DESIGNATION NUMBER

STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
N26	146

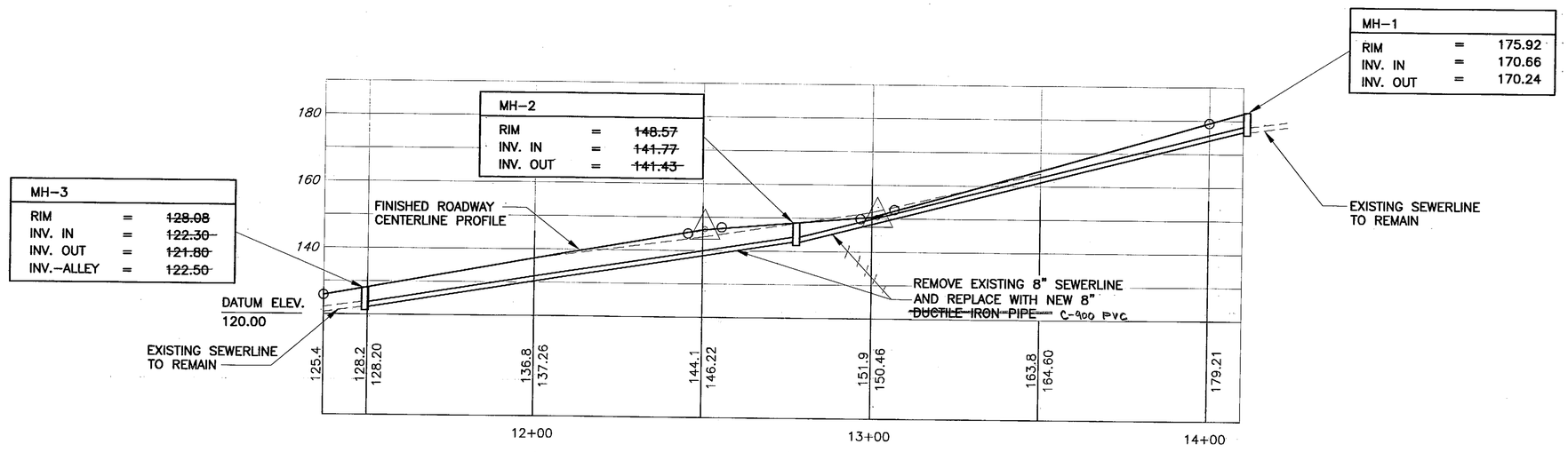
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-9-06



PLAN - SANITARY SEWER RECONSTRUCTION

Note: CO #1 eliminated this work. Subsequent elevation conflicts with water and storm drain pipes required replacing MH-2 and MH-3, and installing new 8" C-900 PVC sanitary sewer pipe, at elevations that are different from those noted in the profile, below.



PROFILE - SANITARY SEWER RECONSTRUCTION

PATH: Q:\Ktn\71811A\Planset\P_SS-Reconst.dwg
Tue, 07/May/02 09:15AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sanitary Sewer Reconstruction

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

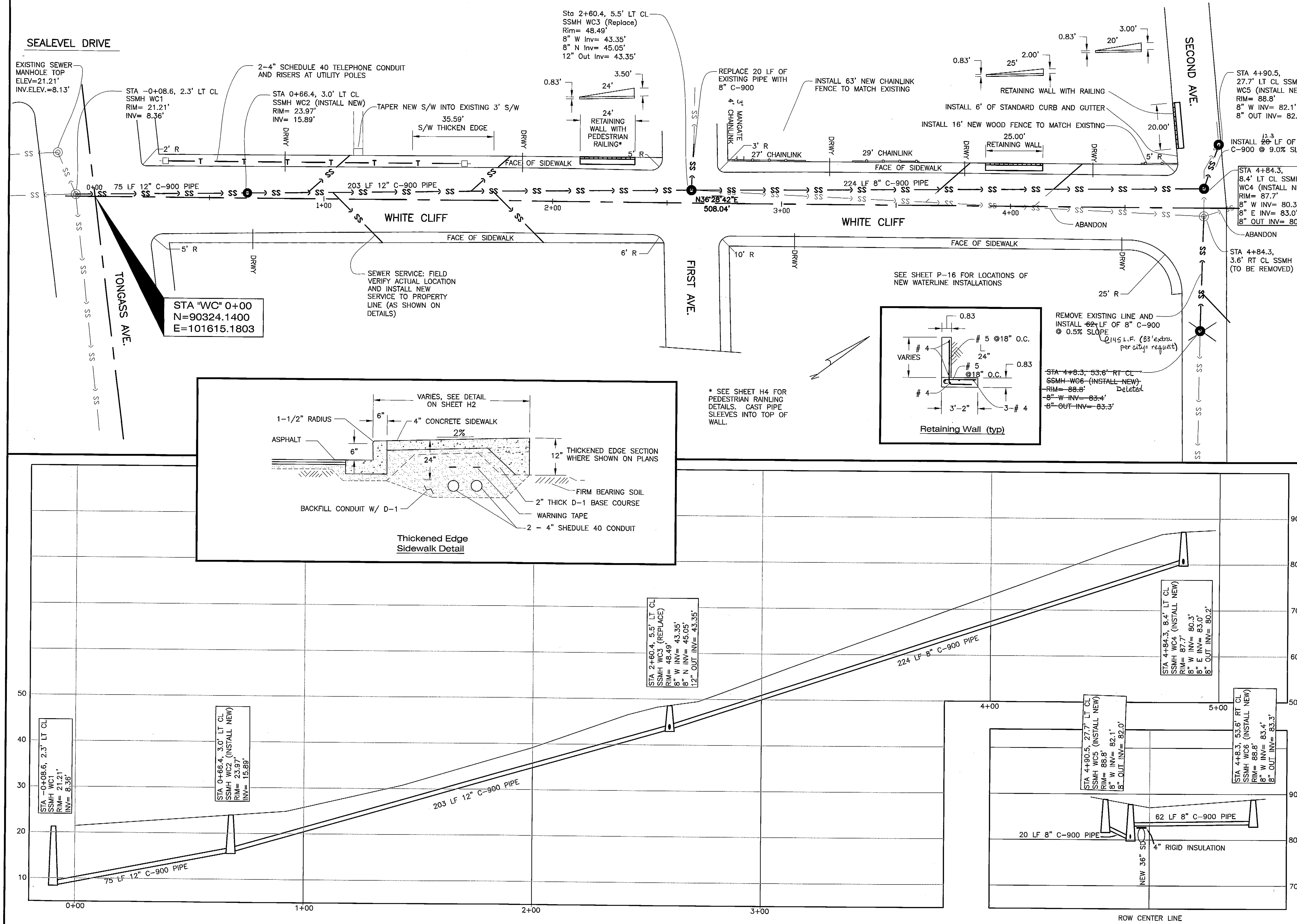
Sanitary Sewer Reconstruction

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P1	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.01.06

ADDENDUM NO. 1 ATTACHMENT NO. 5



SEALEVEL DRIVE
EXISTING SEWER MANHOLE TOP ELEV=21.21' INV.ELEV.=8.13'
STA -0+08.6, 2.3' LT CL SSMH WC1 RIM= 21.21' INV= 8.36'
2-4" SCHEDULE 40 TELEPHONE CONDUIT AND RISERS AT UTILITY POLES
STA 0+66.4, 3.0' LT CL SSMH WC2 (INSTALL NEW) RIM= 23.97' INV= 15.89'
TAPER NEW S/W INTO EXISTING 3' S/W
35.59' S/W THICKEN EDGE
Sta 2+60.4, 5.5' LT CL SSMH WC3 (Replace) Rim= 48.49' 8" W Inv= 43.35' 8" N Inv= 45.05' 12" Out Inv= 43.35'
24' RETAINING WALL WITH PEDESTRIAN RAILING*
REPLACE 20 LF OF EXISTING PIPE WITH 8" C-900
INSTALL 63' NEW CHAINLINK FENCE TO MATCH EXISTING
RETAINING WALL WITH RAILING
INSTALL 6' OF STANDARD CURB AND GUTTER
INSTALL 16' NEW WOOD FENCE TO MATCH EXISTING
25.00' RETAINING WALL
SECOND AVE.
STA 4+90.5, 27.7' LT CL SSMH WC5 (INSTALL NEW) RIM= 88.8' 8" W INV= 82.1' 8" OUT INV= 82.0'
INSTALL 20 LF OF 8" C-900 @ 9.0% SLOPE
STA 4+84.3, 8.4' LT CL SSMH WC4 (INSTALL NEW) RIM= 87.7' 8" W INV= 80.3' 8" E INV= 83.0' 8" OUT INV= 80.2'
ABANDON
STA 4+84.3, 3.6' RT CL SSMH (TO BE REMOVED)
75 LF 12" C-900 PIPE
203 LF 12" C-900 PIPE
224 LF 8" C-900 PIPE
N36°28'42"E 508.04'
WHITE CLIFF
FACE OF SIDEWALK
TONGASS AVE.
FIRST AVE.
STA "WC" 0+00 N=90324.1400 E=101615.1803
SEWER SERVICE: FIELD VERIFY ACTUAL LOCATION AND INSTALL NEW SERVICE TO PROPERTY LINE (AS SHOWN ON DETAILS)
SEE SHEET P-16 FOR LOCATIONS OF NEW WATERLINE INSTALLATIONS
REMOVE EXISTING LINE AND INSTALL 62 LF OF 8" C-900 @ 0.5% SLOPE
STA 4+8.3, 53.6' RT CL SSMH WC6 (INSTALL NEW) RIM= 88.8' 8" W INV= 83.4' 8" OUT INV= 83.3' Deleted
* SEE SHEET H4 FOR PEDESTRIAN RAILING DETAILS. CAST PIPE SLEEVES INTO TOP OF WALL.
Retaining Wall (typ)
Thickened Edge Sidewalk Detail
VARIES, SEE DETAIL ON SHEET H2
4" CONCRETE SIDEWALK
12" THICKENED EDGE SECTION WHERE SHOWN ON PLANS
FIRM BEARING SOIL
2" THICK D-1 BASE COURSE
WARNING TAPE
2 - 4" SHEDULE 40 CONDUIT
BACKFILL CONDUIT W/ D-1
20 LF 8" C-900 PIPE
62 LF 8" C-900 PIPE
4" RIGID INSULATION
ROW CENTER LINE

PATH: Q:\Ktn\71811A\Planset\P2_ADD-1_NEW_WHITEC
Tue, 28/Jun/05 08:09AM rksnyder
PLOT: PSPACE I=I(F) OR MSPACE I=I(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION PROJECT NO. 68490

Sanitary Sewer Reconstruction

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. Date 10.31.06

DESIGNED BY: J. MAY

STATE OF ALASKA 49th Joseph G. May CE-5768 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: C. HOWARD

DRAWN BY: JM/ML

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION PROJECT NO. 68490

Sanitary Sewer Reconstruction

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002

SHEET NUMBER	TOTAL SHEETS
P2	146

Match Existing
Sta. 22+00 10' RT.
(approx.)

"W" LINE

SEE DETAIL B, SHEET P10

ANGLE PT. 22+59.50 =
"O" POT= 22+55.35, 12' LT.

R/W

THIRD AVENUE

23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00

WALL #2

PC =25+05.54 =
"O" POC = 25+00.34, 11' LT.

PT = 28+40.76 =
"O" PT = 28+29.27 11' LT.

INSTALL HYDRANT STA. 28+00, 8.5' LT. SEE SHEET P10 OR DETAILS.

STA. 28+00, INSTALL 16"x 6" TEE, FLxFL 16" FL x MJ GATE VALVE, 6" FL x MJ GATE VALVE, RESTRAIN ALL JOINTS 40' EACH SIDE OF TEE, TYPICAL.

S-20 S-21 S-22 S-23a P-20 P-21 P-22 P-23

"A" LINE

"W1" LINE

"W2" LINE

WALL #1

Washington Street

Austin Street

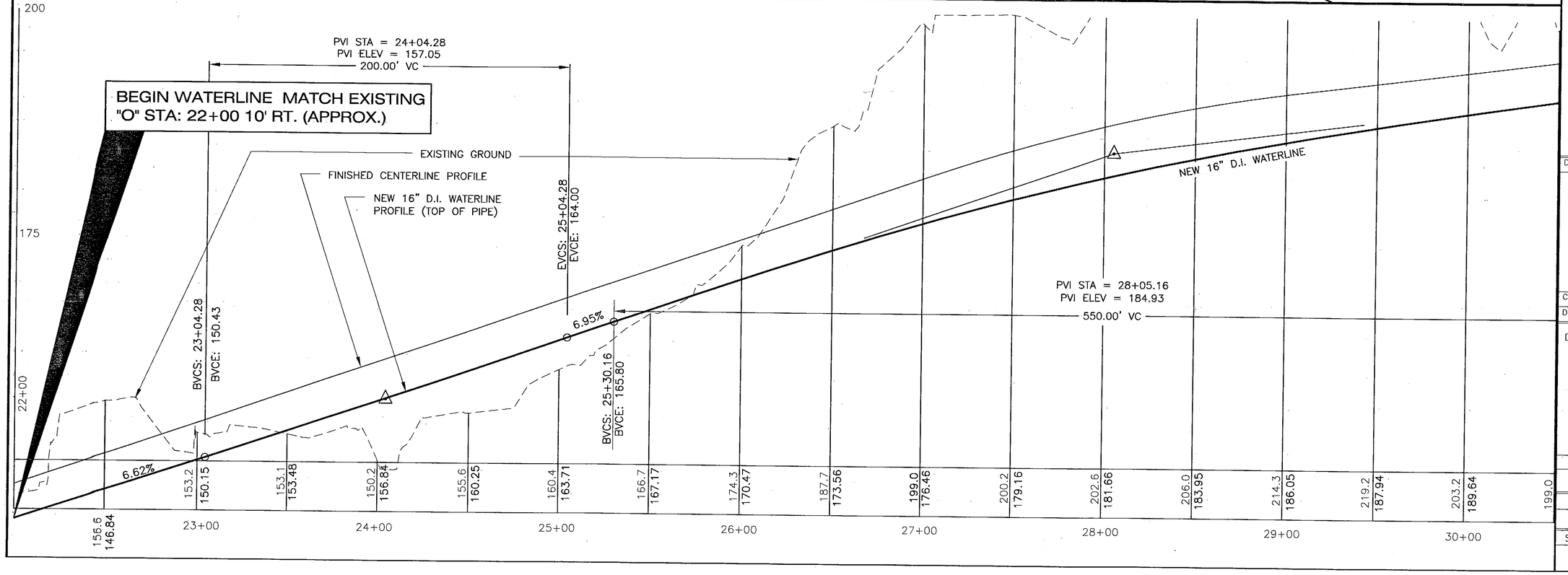
WEST 3rd AVE.

SEE DETAIL A

CONNECT TO EXISTING AUSTIN AVENUE 6" PIPE WITH 8"x 6" MJ REDUCER ALL JOINTS RESTRAINED

LEGEND

WATERLINE — W —



PATH:
Q:\Ktn\71811A\Planset\P_Waterline.dwg
Tue, 07/May/02 10:42AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

B.O.P. STA. "0" 22+00 TO STA. "0" 30+00

WATERLINE PLAN & PROFILE

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

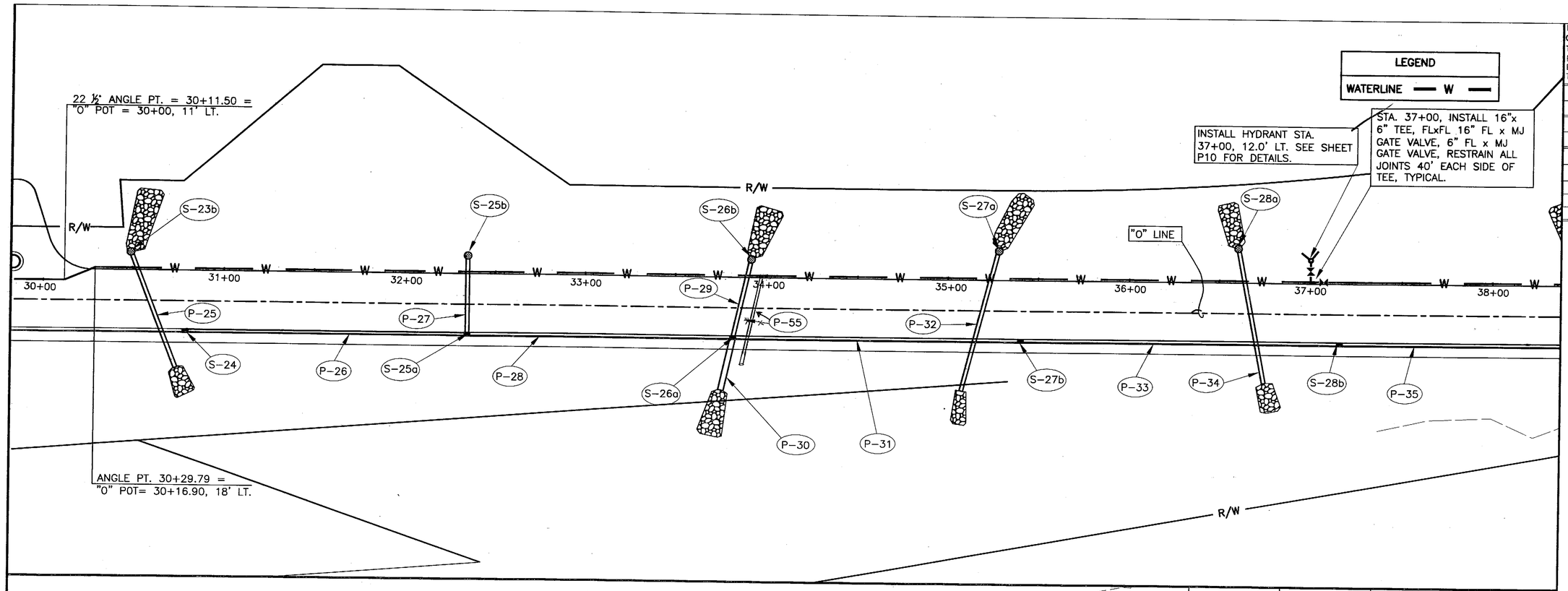
THIRD AVENUE EXTENSION
PROJECT NO. 68490

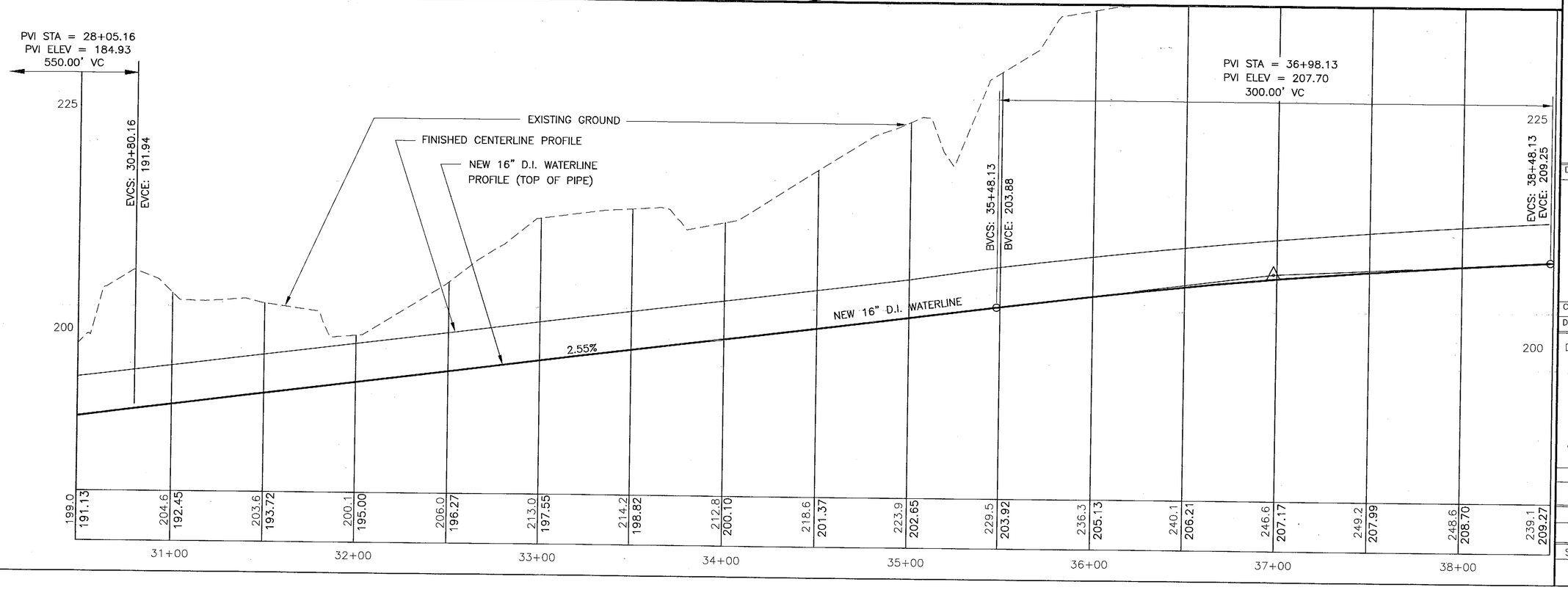
B.O.P. STA. "0" 22+00 TO STA. "0" 30+00

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06





PATH:
Q:\Ktn\71B11A\Planset\P_Waterline.dwg
Tue, 07/May/02 03:01PM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

STA. "0" 30+50 TO STA "0" 38+00
WATERLINE PLAN & PROFILE

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

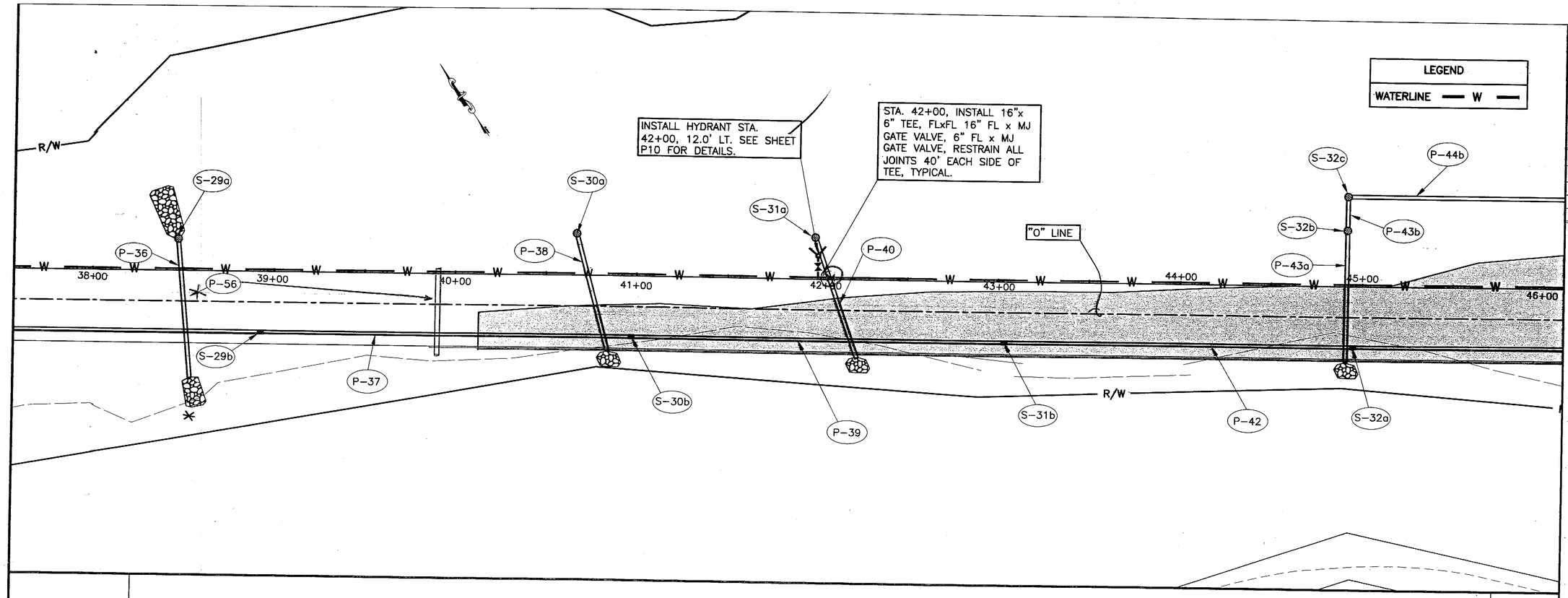
THIRD AVENUE EXTENSION
PROJECT NO. 68490

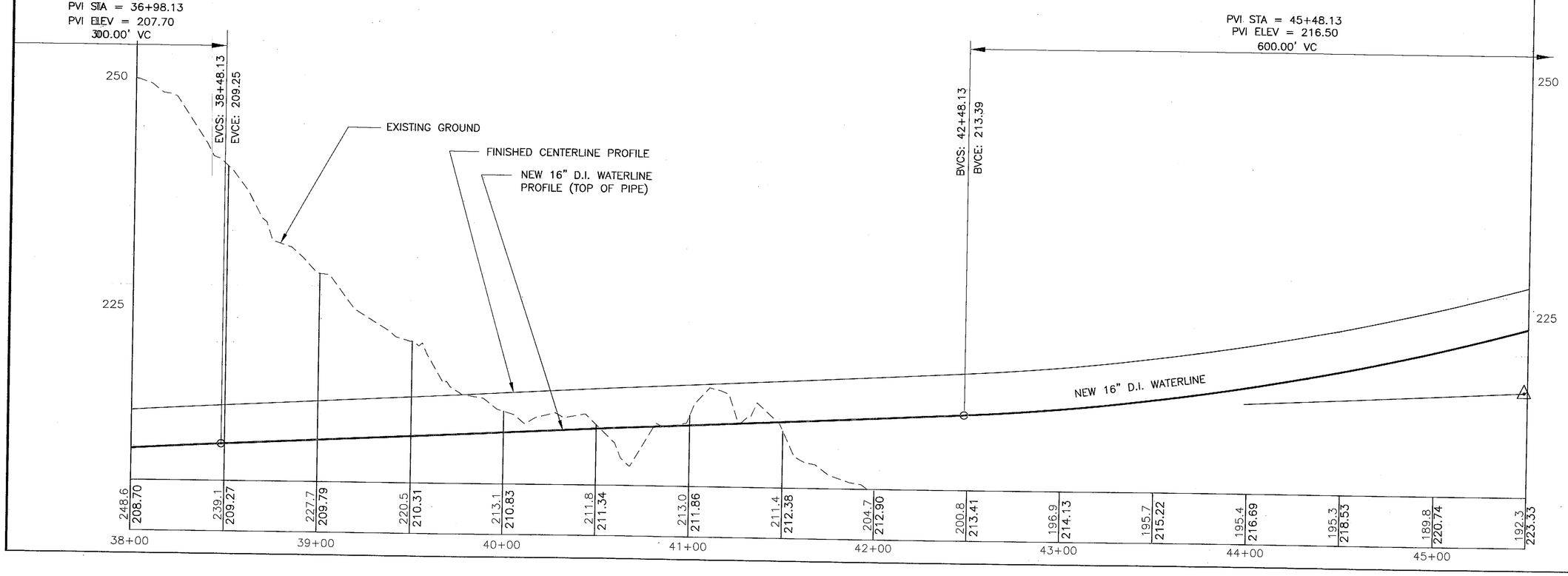
STA."0" 30+50 TO STA."0" 38+00

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 8.4.06





PATH:
Q:\Ktn\71811A\Planset\P_Waterline.dwg
Tue, 07/May/02 09:16AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

STA. "0" 38+00
TO STA "0" 45+50
WATERLINE PLAN & PROFILE

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Thedy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

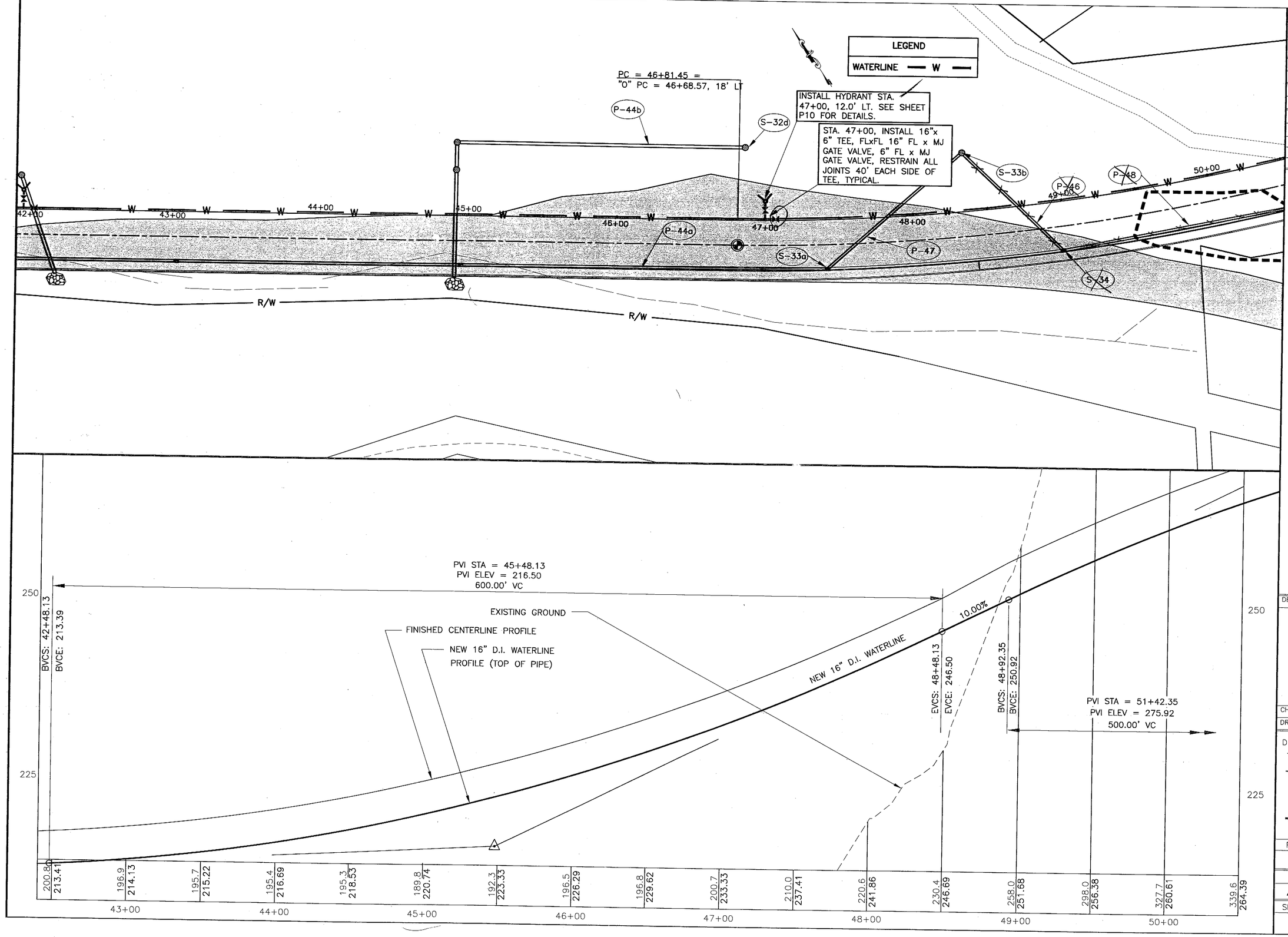
STA."0" 38+00
TO STA."0" 45+50

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P5	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



PATH:
Q:\Ktn\71811A\Planset\P_Waterline.dwg
Tue, 07/May/02 03:01PM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

STA. "0" 42+50
TO STA "0" 50+50
WATERLINE PLAN & PROFILE

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

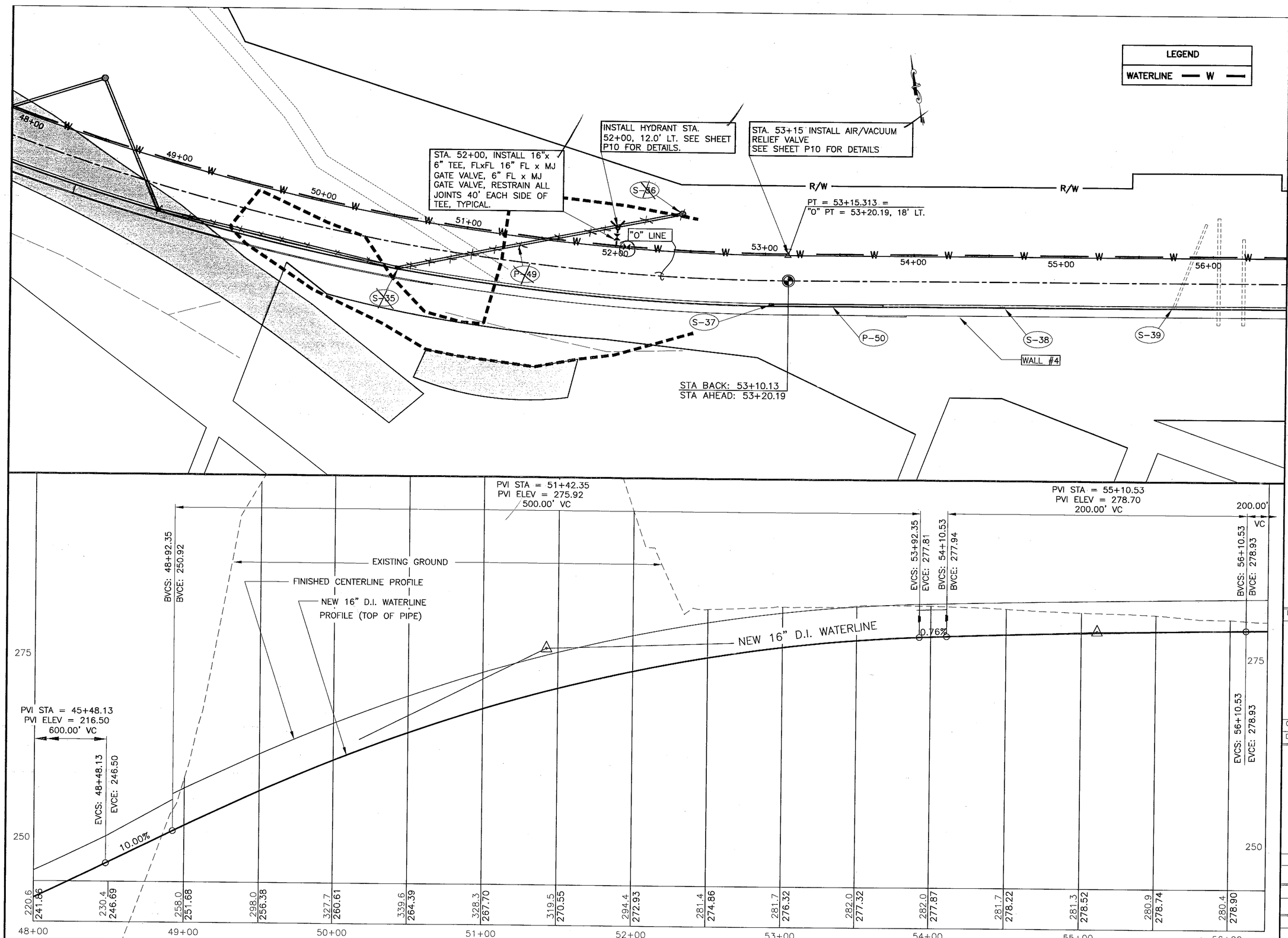
THIRD AVENUE EXTENSION
PROJECT NO. 68490

STA."0" 42+50
TO STA."0" 50+50

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P6	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06



PATH:
Q:\Ktn\71811A\Planset\P_Waterline.dwg
Tue, 07/May/02 03:01PM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

STA. "0" 48+00
TO STA "0" 56+00
WATERLINE PLAN & PROFILE

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

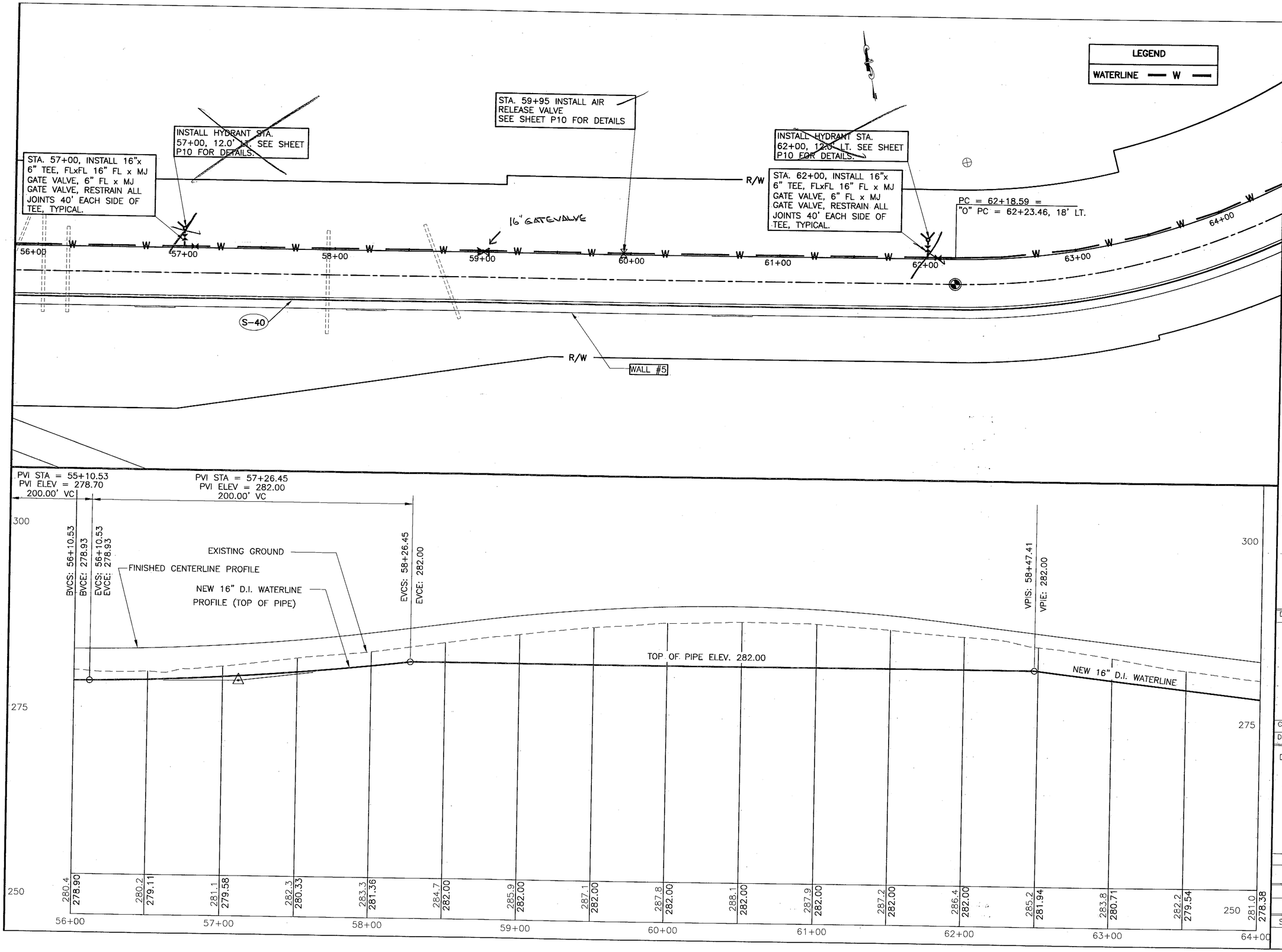
THIRD AVENUE EXTENSION
PROJECT NO. 68490

STA."0" 48+00
TO STA."0" 56+00

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P7	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



PATH:
Q:\Ktn\71811A\Planset\P_Waterline.dwg
Tue, 07/May/02 10:42AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

STA. "O" 56+00
TO STA "O" 64+00
WATERLINE PLAN & PROFILE

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

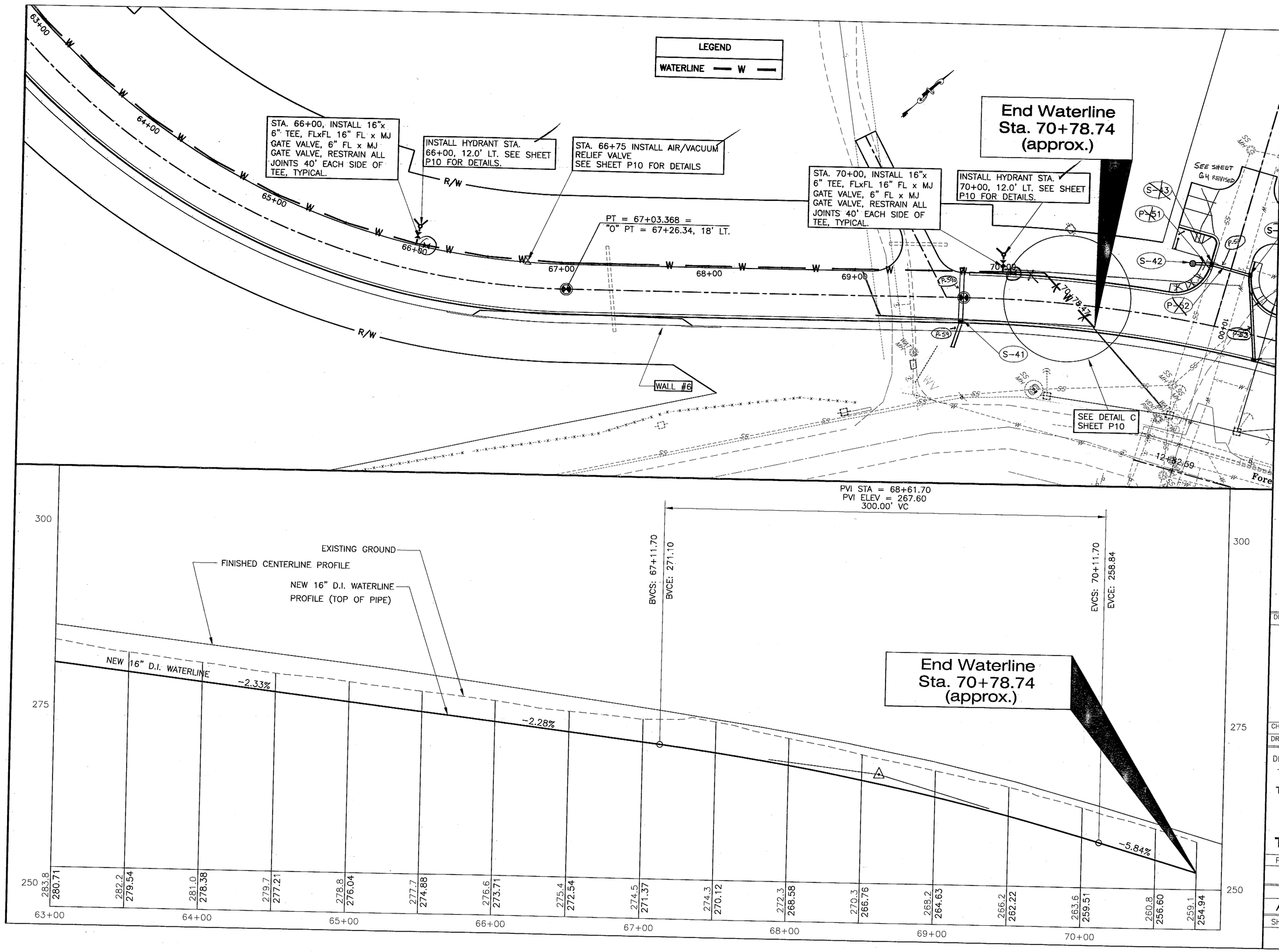
THIRD AVENUE EXTENSION
PROJECT NO. 68490

STA."O" 56+00
TO STA."O" 64+00

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P8	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



PATH:
Q:\Ktn\71811A\Planset\P_Waterline.dwg
Tue, 07/May/02 10:42AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

STA. "0" 63+00
TO STA "0" 70+00
WATERLINE PLAN & PROFILE

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Moby W. Moore
CE-4932
PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

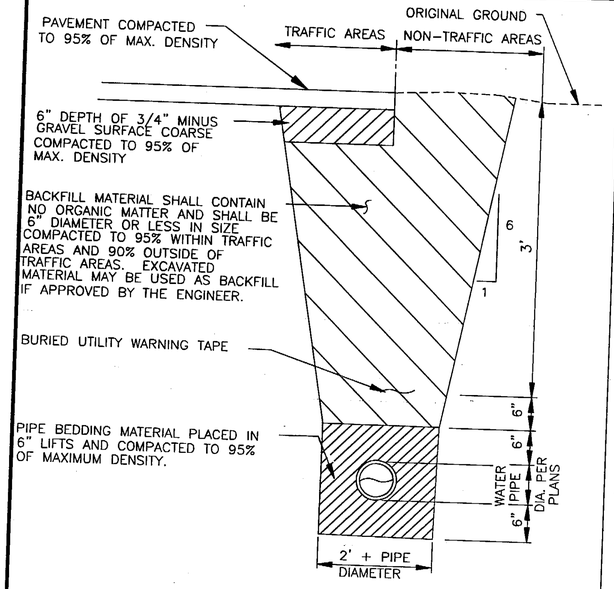
THIRD AVENUE EXTENSION
PROJECT NO. 68490

STA."0" 63+00
TO STA."0" 70+00

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P9	146

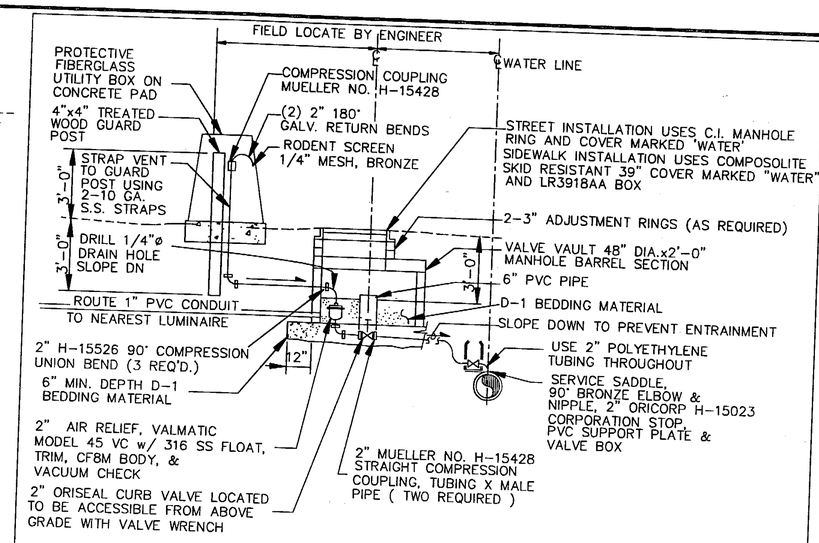
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 12-31-02



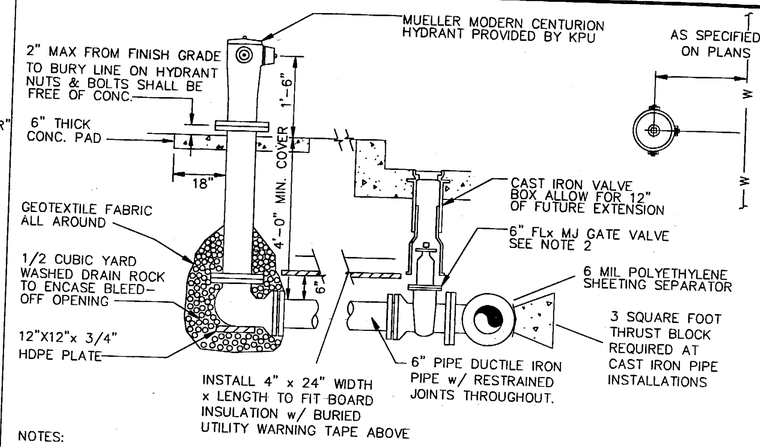
TYPICAL WATER TRENCH

NOT TO SCALE



AIR RELIEF VALVE ASSEMBLY STATION 59+95

NOT TO SCALE

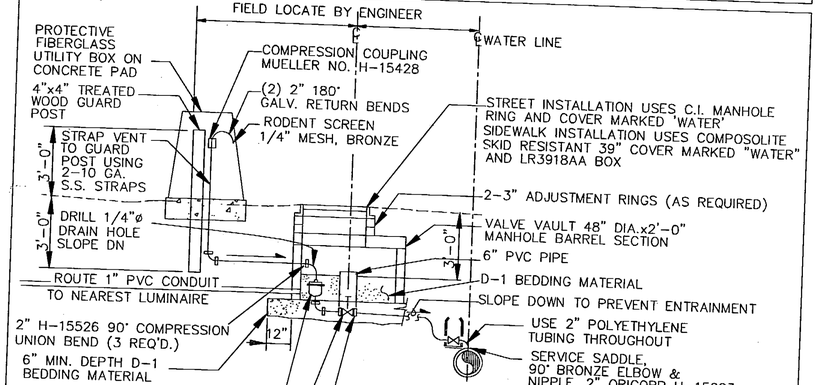


NOTES:

1. ALL BOLT THREADS TO BE GREASED PRIOR TO INSTALLATION.
2. MECHANICAL RESTRAINED JOINTS TO BE USED THROUGHOUT.
3. HYDRANT PAINT SHALL BE SPECIFIED BY THE ENGINEER.
4. DOUBLE DIPPED GALVANIZED NUTS AND BOLTS SHALL BE FREE OF CONCRETE.
5. PLACE BURIED UTILITY WARNING TAPE ABOVE THE HYDRANT LEAD.

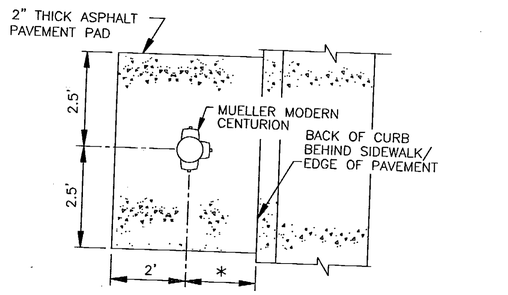
TYPICAL BURIED FIRE HYDRANT

NOT TO SCALE



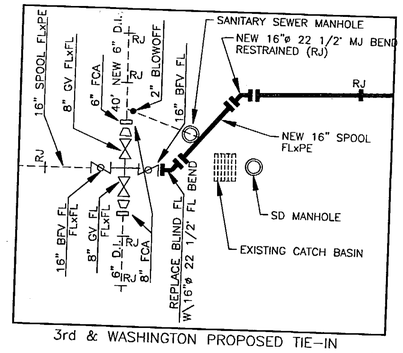
AIR/VACUUM RELIEF VALVE ASSEMBLY STATIONS 53+15 & 66+75

NOT TO SCALE



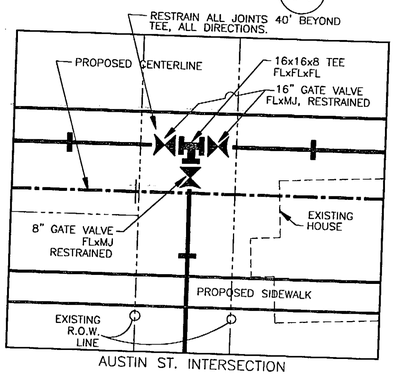
FIRE HYDRANT PAD

NOT TO SCALE
*VARIES, SEE PLAN FOR OFFSET DISTANCE



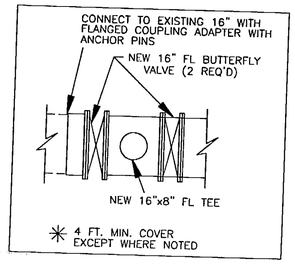
3rd & WASHINGTON PROPOSED TIE-IN

DETAIL A



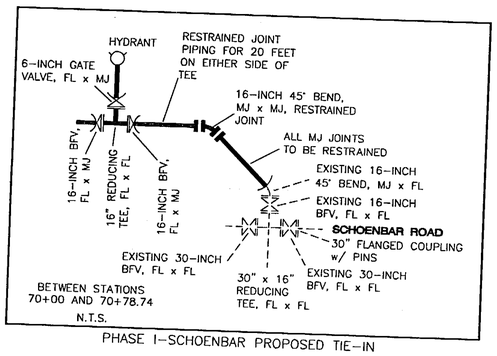
AUSTIN ST. INTERSECTION

DETAIL B



NOTES:

1. BACKFILL MATERIAL SHALL BE PLACED IN 12" MAXIMUM LIFTS.
2. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED SLOPE IS FOR PAY QUANTITY DETERMINATION ONLY FOR IMPORTED BACKFILL GRAVEL AND RESURFACING REQUIREMENTS.
3. ENGINEER MAY DIRECT THE CONTRACTOR TO OVER-EXCAVATE AND BACKFILL WITH SUITABLE MATERIAL, IF UNSUITABLE PIPE FOUNDATION MATERIAL IS ENCOUNTERED DURING EXCAVATION.
4. THE DITCH LINE, IF ONE EXISTS, SHALL BE RESHAPED IN SUCH A MANNER TO ALLOW POSITIVE DRAINAGE TO MATCH PRE-CONSTRUCTION CONDITIONS.



PHASE I-SCHOENBAR PROPOSED TIE-IN

DETAIL C

PATH: Q:\Ktn\71811A\Planset\P_Waterline.dwg
Mon, 06/May/02 11:12AM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Waterline Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

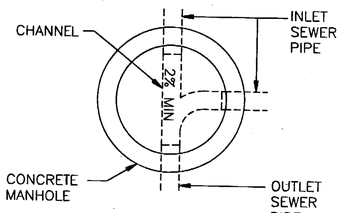
THIRD AVENUE EXTENSION PROJECT NO. 68490

Waterline Details

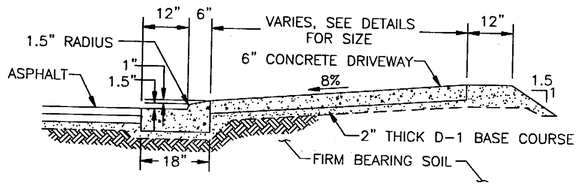
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P10	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

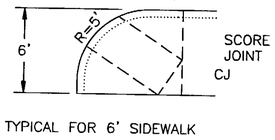
Proj. Eng _____ Date 10-31-06



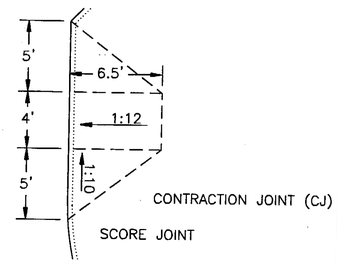
PLAN OF BASE AND FLOW CHANNELS



DRIVEWAY DETAIL

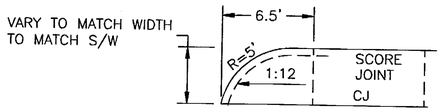


TYPICAL FOR 6' SIDEWALK



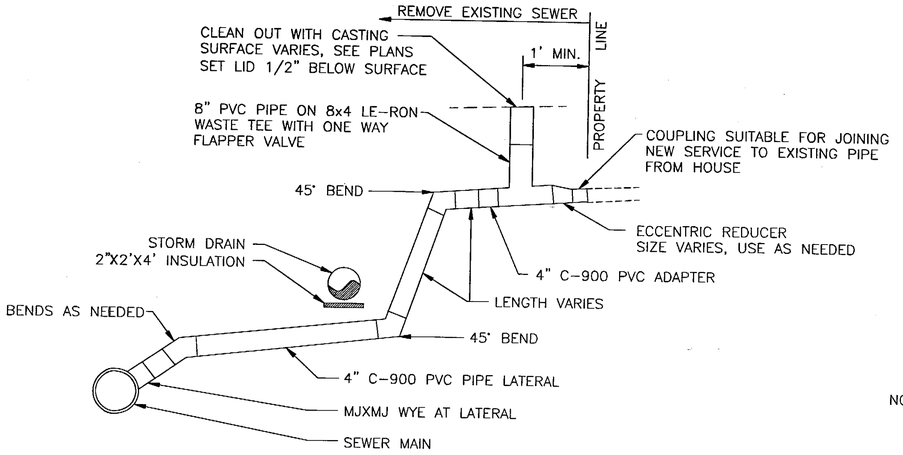
TYPICAL FOR WIDE SIDEWALK

HANDICAPPED RAMP

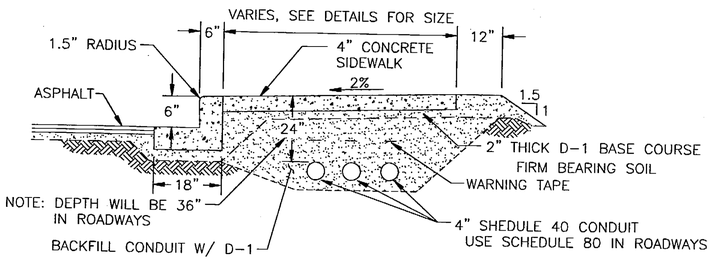


TYPICAL FOR SIDEWALK

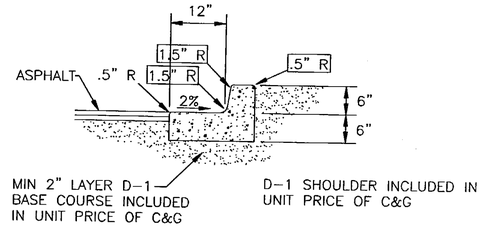
HANDICAPPED RAMP



SEWER LATERAL PROFILE



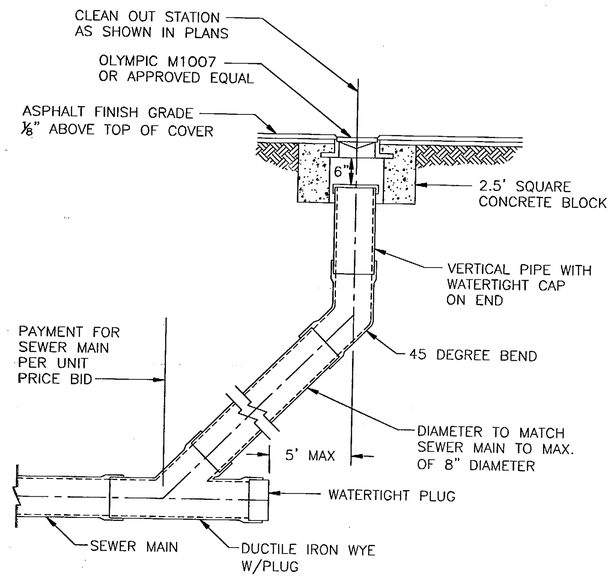
SIDEWALK DETAIL



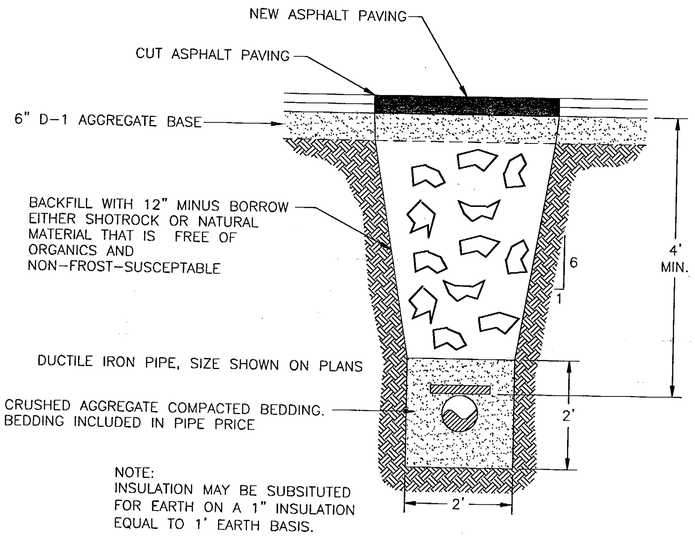
MIN 2" LAYER D-1 BASE COURSE INCLUDED IN UNIT PRICE OF C&G

D-1 SHOULDER INCLUDED IN UNIT PRICE OF C&G

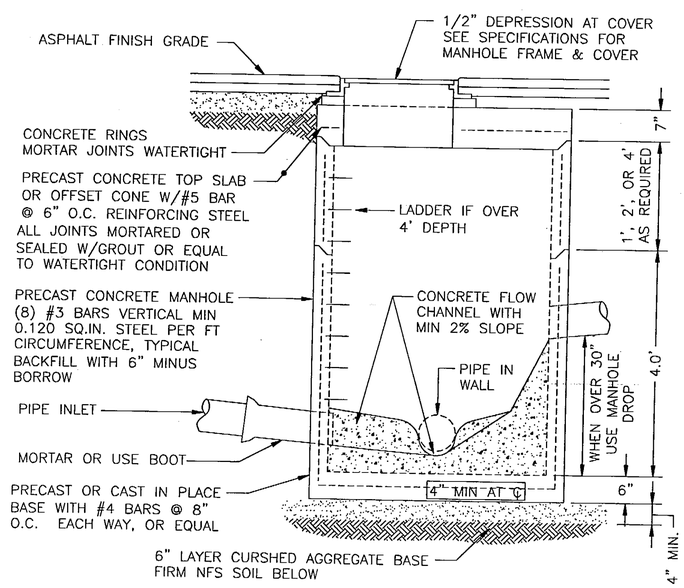
CONCRETE CURB & GUTTER



SEWER CLEAN OUT IN STREET



TYPICAL SEWER OR STORM DRAIN TRENCH



MANHOLE SECTION

PATH:
Q:\Ktn\71811A\Planset\P_Trench_Dets.dwg
Mon, 06/May/02 09:47AM
PLOT: Michael Limbaugh
PSPACE: 1=1(F) OR MSPACE: NO SCALE
TAB: MANHO VAL AJ-N4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Whitecliff Avenue Details And Sanitary Sewer Manhole Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION PROJECT NO. 68490

Sanitary Sewer Manhole Details

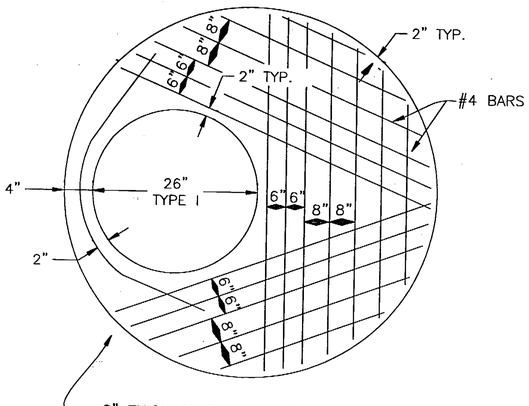
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P11	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

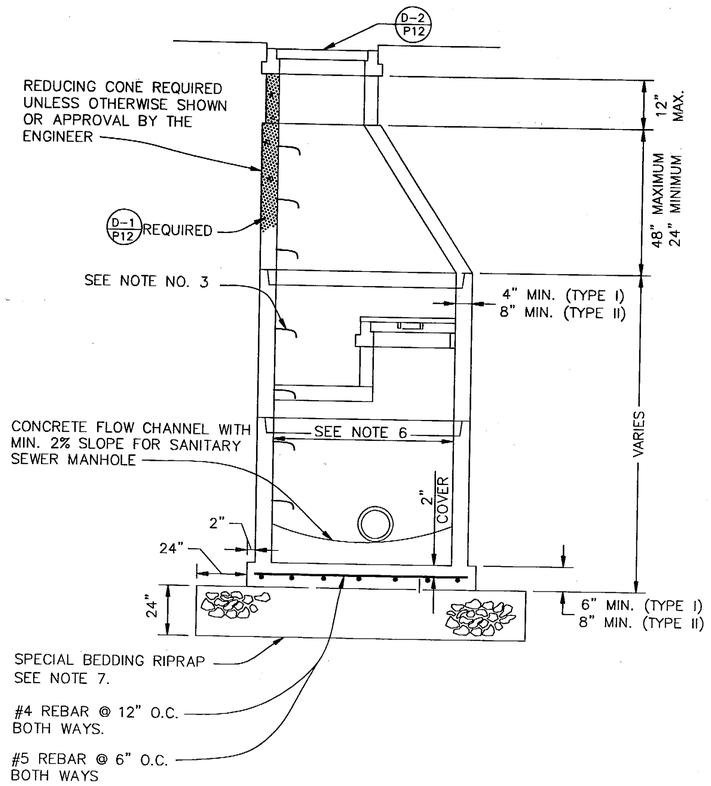
Proj. Eng _____ Date 10-31-06

MANHOLE NOTES

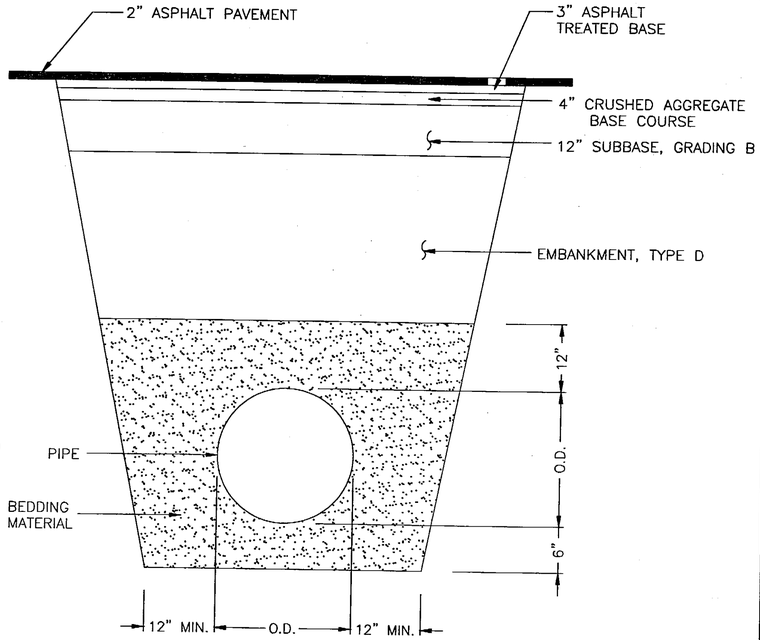
1. REFER TO A.S.T.M. DESIGNATION C-478 FOR DESIGN REQUIREMENTS.
2. MINIMUM STEEL REQUIRED FOR BARREL AS PER A.S.T.M. C-478-69 SHALL BE EMBEDDED IN BASE SO THAT FIRST BARREL SECTION IS CONNECTED WITH BASE.
3. RUNGS TO BE PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE 18" MAXIMUM FROM BOTTOM OF MANHOLE AND 6" MAXIMUM FROM TOP OF CONE.
4. ALL PIPES TO EXTEND 2" INTO MANHOLE.
5. BLOCKOUTS TO BE FORMED.
6. STORM SEWER MANHOLES SHALL BE 48" INSIDE DIAMETER FOR TYPE 1 AND 84" FOR TYPE 2.
7. SPECIAL BEDDING RIPRAP, CLASS I (NO ROUND ROCK) REQUIRED FOR ALL MANHOLES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF SPECIAL BEDDING IS NOT REQUIRED, USE 24" MINIMUM DEPTH OF 1" MINUS WASHED ROCK. EXISTING SOILS OR OTHER GRANULAR MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER AND COMPACTED TO 95% OF MAXIMUM DENSITY.



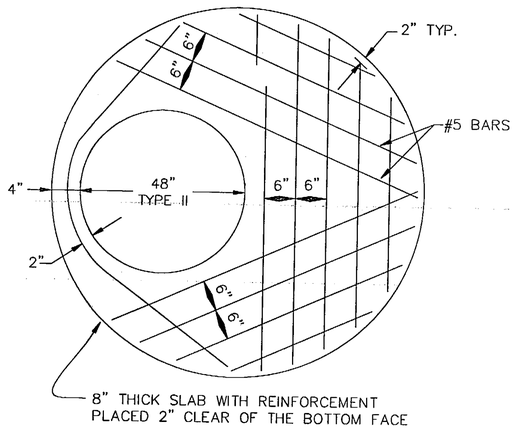
TYPE 1 MANHOLES



CONCRETE MANHOLE DETAIL (4)
N.T.S.

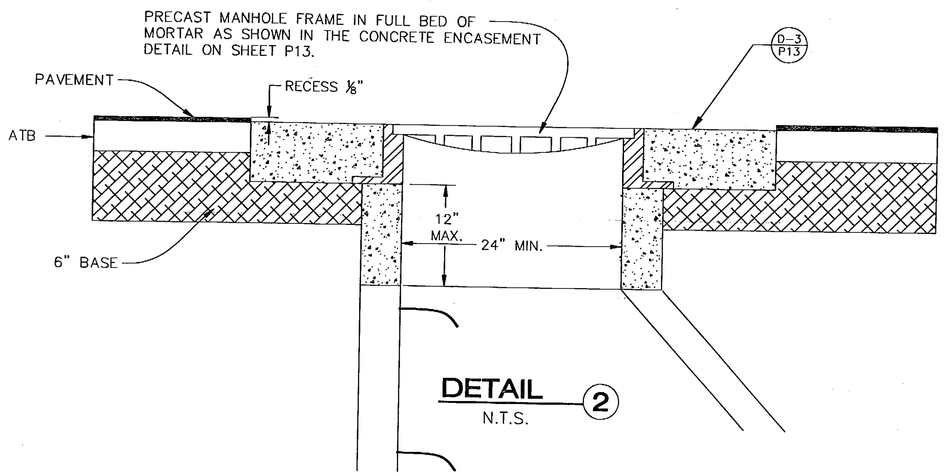


STORM DRAIN TRENCH DETAIL



TYPE 2 MANHOLES

PRECAST CONCRETE REDUCING SLAB (1)
N.T.S.



DETAIL (2)
N.T.S.

PATH: D:\Ktn\71811A\Planset\P_Trench_Dets.dwg
Mon, 06/May/02 09:47AM
PLOT: Michael Limbaugh
PSPACE: 1=1(F) OR MSPACE: NO SCALE
TAB: MANHO VAL AJ-N4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Miscellaneous Utility Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

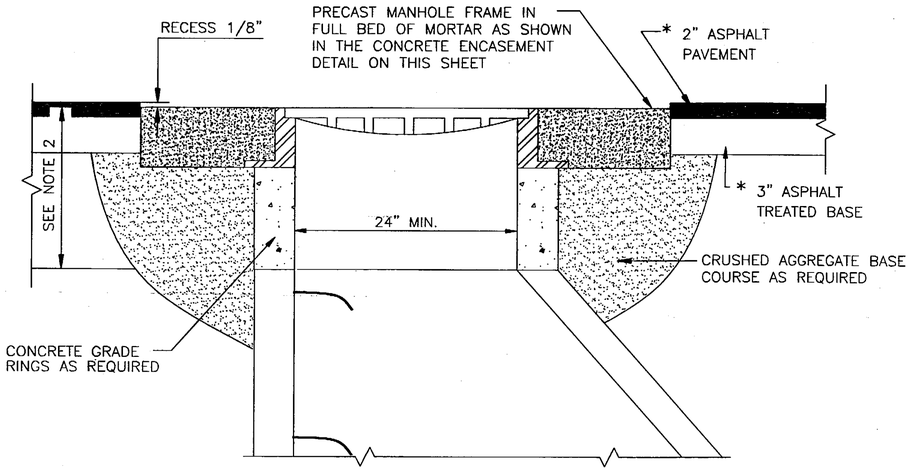
THIRD AVENUE EXTENSION PROJECT NO. 68490

Miscellaneous Utility Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P12	146

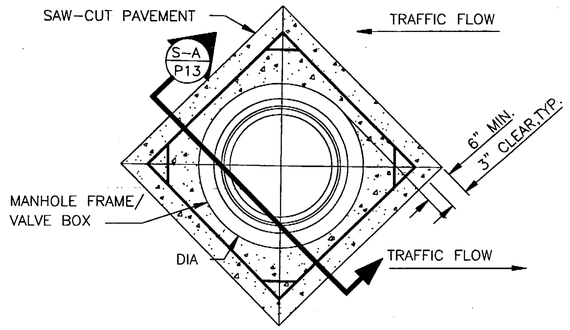
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10-31-06



ADJUST STORM/SEWER MANHOLE 1

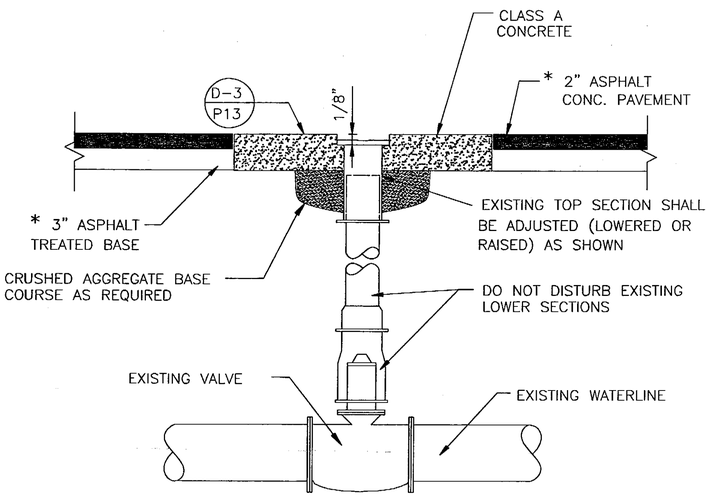
* MATCH TYPICAL SECTION



CONCRETE ENCASEMENT DETAIL 3

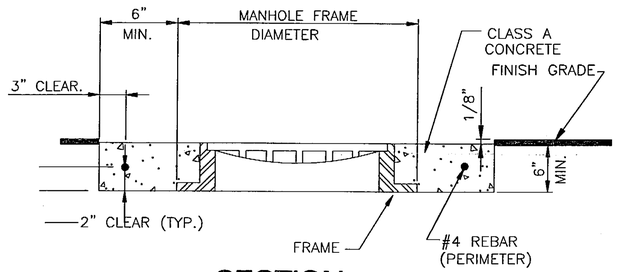
MANHOLE ADJUSTMENT NOTES:

1. MANHOLE ADJUSTMENT SHALL BE MADE WITH GRADE RINGS NOT EXCEEDING 12" TOTAL HEIGHT BETWEEN BOTTOM OF MANHOLE FRAME AND TOP OF MANHOLE CONE.
2. NEW STEP(S) AS DETAILED IN STD. DRAWINGS D-20.02 SHALL BE INSTALLED ON THE EXISTING MANHOLE IF THE FIRST STEP EXCEED 36" FROM THE TOP OF MANHOLE FRAME, FOR MANHOLE RECONSTRUCTION/ADJUSTMENT.
3. ANY RECONSTRUCTED OR ADJUSTED MANHOLES MUST CONFORM TO STANDARD DIMENSIONS.
4. CONCRETE ENCASEMENT IS NOT REQUIRED IF MANHOLE, INLETS OR VALVE BOX IS LOCATED IN THE SIDEWALK.



VALVE BOX ADJUSTMENT DETAIL 2

* MATCH TYPICAL SECTION



SECTION A

PATH: Q:\Ktn\71811A\Planset\N_DrainDets.dwg
Mon, 06/May/02 10:55AM
PLOT: Michael Limbaugh
PSPACE: 1=1(F) OR MSPACE: NO SCALE
TAB: MANHO VAL AJ-N4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Manhole & Valve Adjustment

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

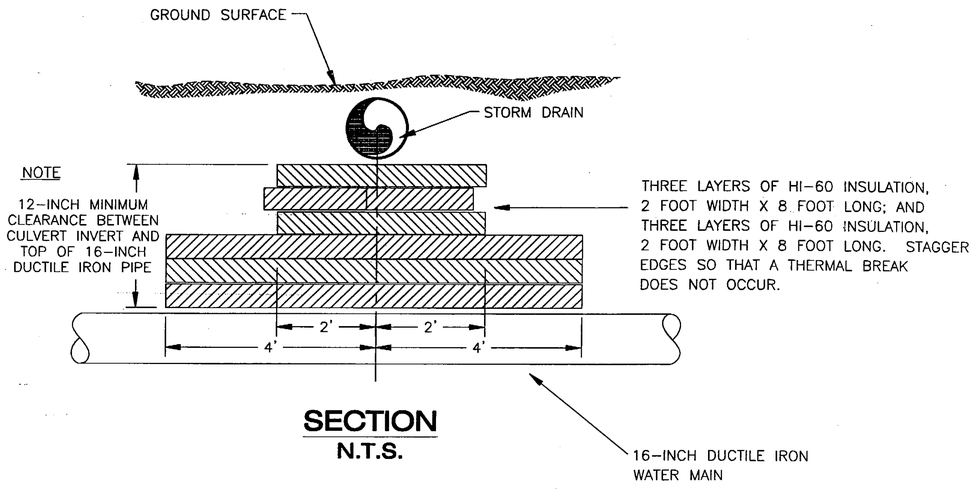
Manhole & Valve Adustment

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

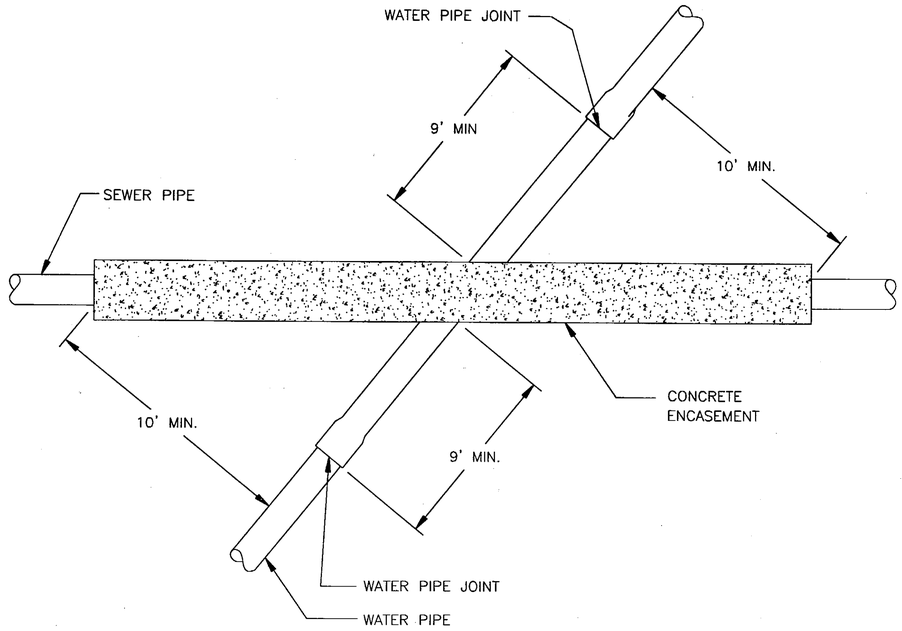
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P13	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

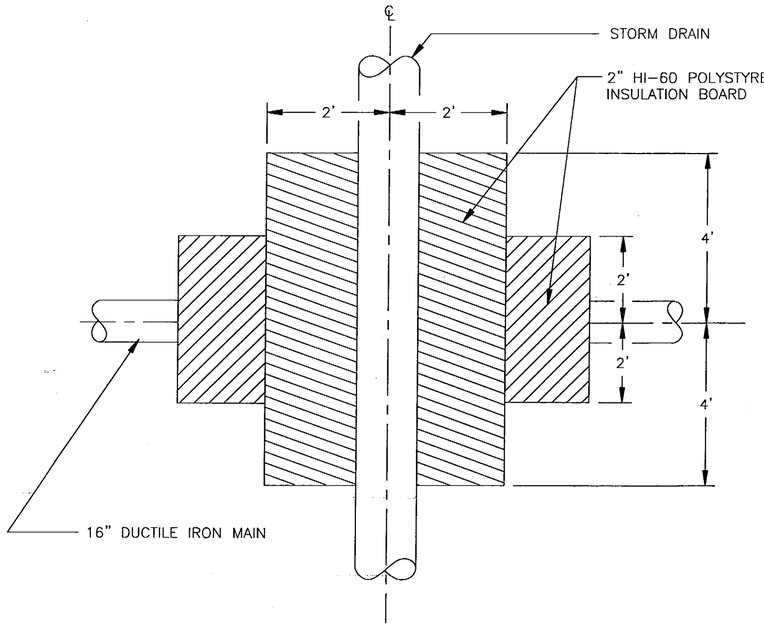
Proj. Eng _____ Date 10.31.06



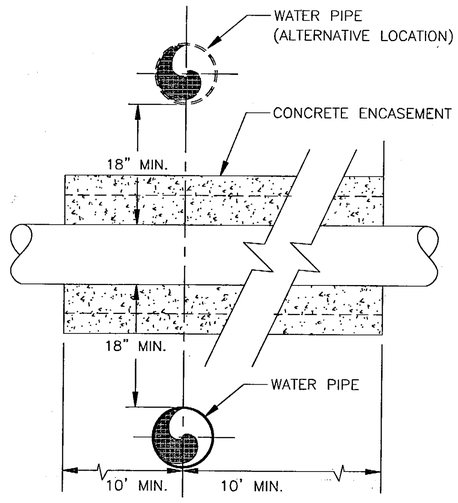
SECTION
N.T.S.



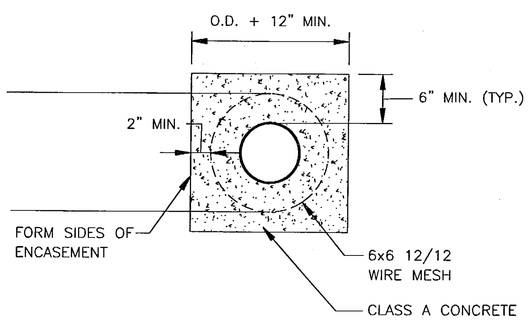
PLAN VIEW
N.T.S.



PLAN
N.T.S.



ELEVATION VIEW
N.T.S.



SECTION VIEW
N.T.S.

NOTES:

1. CONSTRUCT ENCASEMENT WHERE WATERLINE IS WITHIN 10 FEET HORIZONTAL CLEARANCE AND IS BELOW OR LESS THAN 3 FEET ABOVE ANY EXISTING SANITARY SEWER LINES. THE SANITARY SEWER SHALL BE ENCASED WITH A JACKET OF CLASS A CONCRETE 6 INCHES THICK FOR A PERPENDICULAR DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSINGS.

2. A FULL LENGTH OF WATER PIPE SHALL BE CENTERED UNDER THE SANITARY SEWER CROSSING

RIGID INSULATION

SANITARY SEWER ENCASEMENT

PATH: Q:\Ktn\71811A\Planset\P_Waterline.dwg
Tue, 07/May/02 02:35PM
PLOT: Michael Limbaugh
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Waterline Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

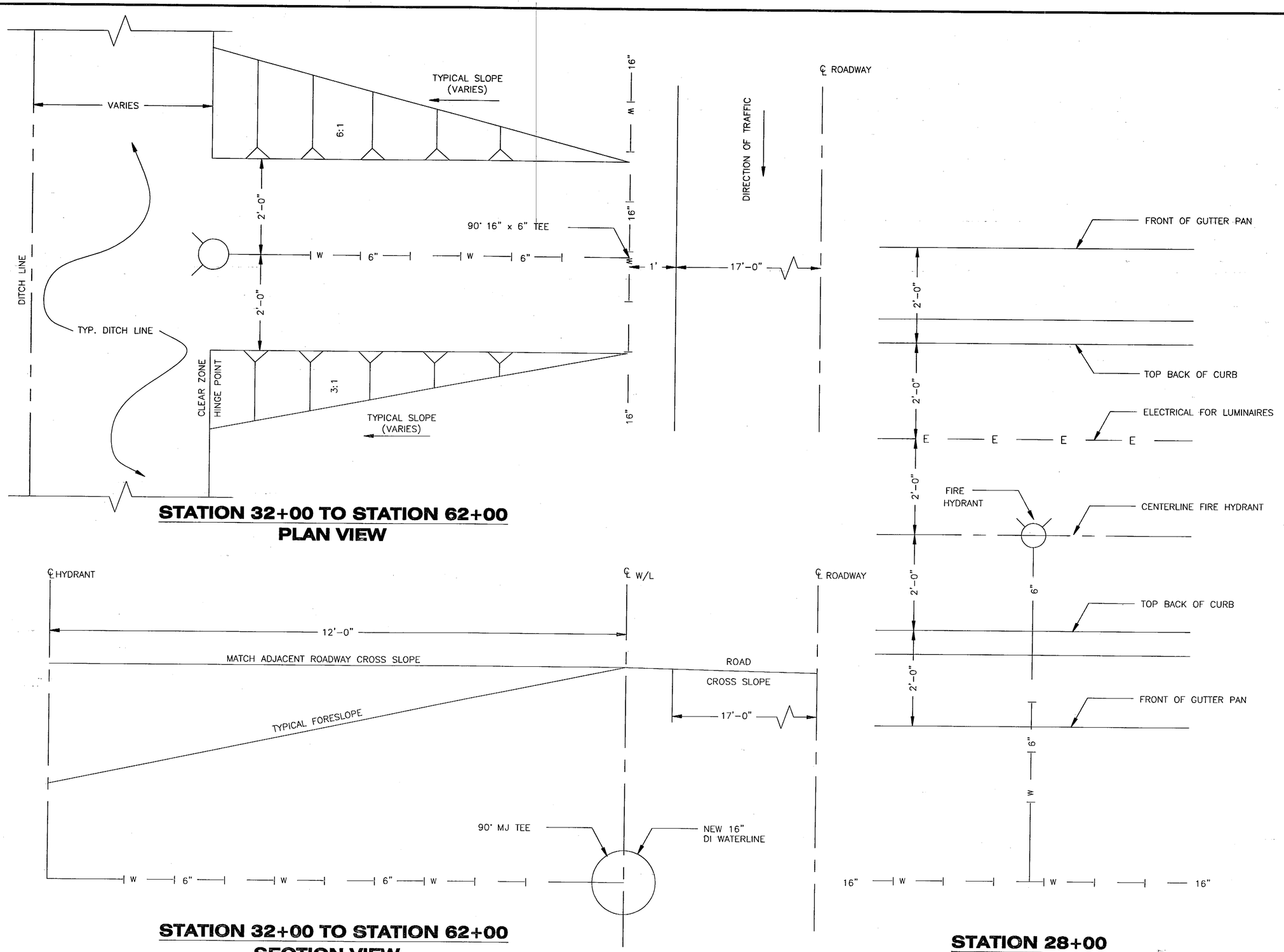
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Waterline Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P14	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10/3/06



STATION 32+00 TO STATION 62+00
PLAN VIEW

STATION 32+00 TO STATION 62+00
SECTION VIEW

STATION 28+00
PLAN VIEW

PATH:
Q:\Ktn\71811A\Planset\P_Hydrant-det1.dwg
Mon, 06/May/02 09:45AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: HYDRANT-P15

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Hydrant Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Hydrant Details

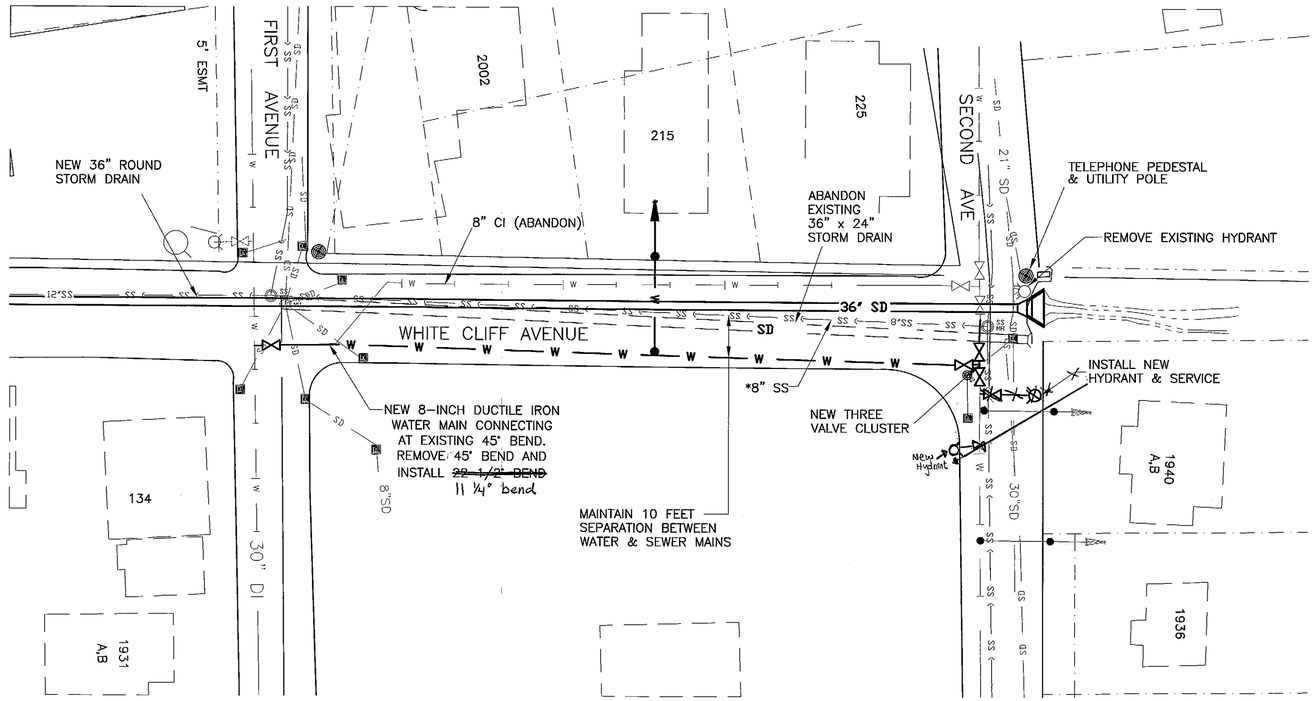
PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P15	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

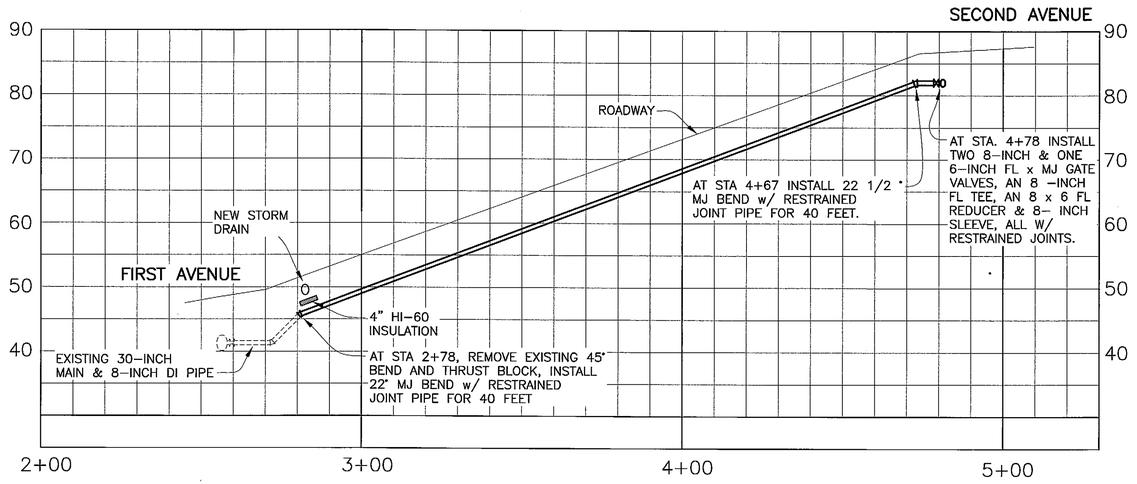
Proj. Eng _____ Date 10-9-06

ADDENDUM NO. 1 ATTACHMENT NO. 6



*NOTE: SEE SHEET P2 FOR LOCATION OF NEW SANITARY SEWER

WHITE CLIFF AVENUE - WATERMAIN PLAN VIEW



WHITE CLIFF AVENUE - WATERLINE PROFILE

PATH: Q:\Ktn\71811A\Planset\P16_WHITECLIFF_WATER.d
Tue, 28/Jun/05 10:47AM rksnyder
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: layout1 (2)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

White Cliff Avenue Water Main Replacement

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy V. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

White Cliff Avenue Water Main Replacement

PROJECT DESIGNATION NUMBER

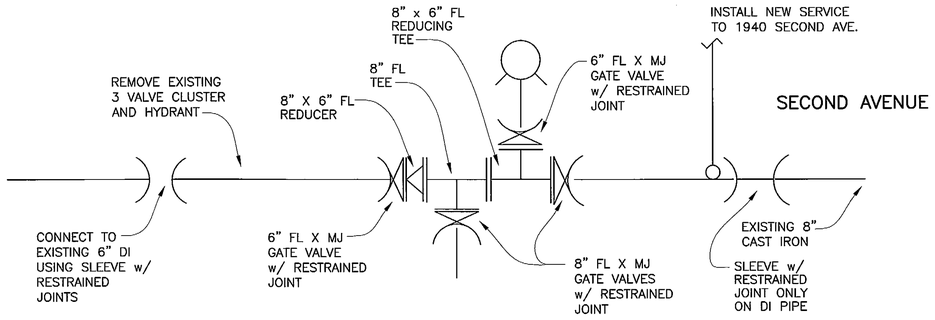
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002

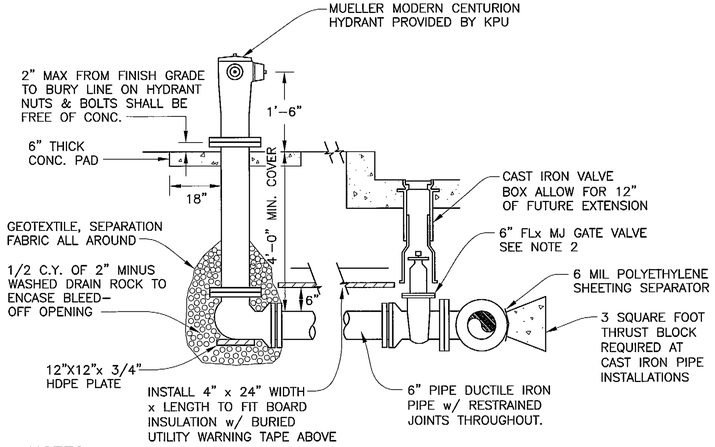
SHEET NUMBER	TOTAL SHEETS
P16	146

CONSTRUCTION NOTES:

1. POLYETHYLENE ENCASEMENT SHALL BE 8 MIL. POLYETHYLENE IN ACCORDANCE WITH AWWA C–105. ALL BURIED PIPE, FITTINGS, AND APPURTENANCES SHALL BE ENCASED IN POLYETHYLENE.
2. FOR PIPE JOINTS 4–INCH OR LARGER IN NOMINAL DIAMETER, CONTINUITY SHALL BE PROVIDED BY AN INSULATED, 4 AWG CABLE USING CadWeld CONNECTIONS ON EACH SIDE OF THE JOINT. AT VALVES ELECTRICAL CONTINUITY SHALL BE PROVIDED BY TWO EACH, INSULATED 4 AWG CABLES, WELDED AS ABOVE, BETWEEN PIPES ON EITHER SIDE OF THE VALVE.
3. CadWeld EXOTHERMIC CHARGES SHALL BE RATED FOR DUCTILE IRON PIPE APPLICATIONS.

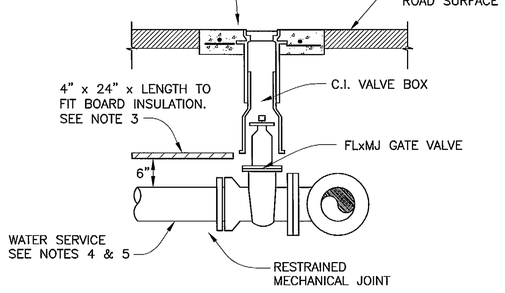


CONSTRUCTION DETAILS
SECOND/ WHITE CLIFF INTERSECTION
N.T.S.



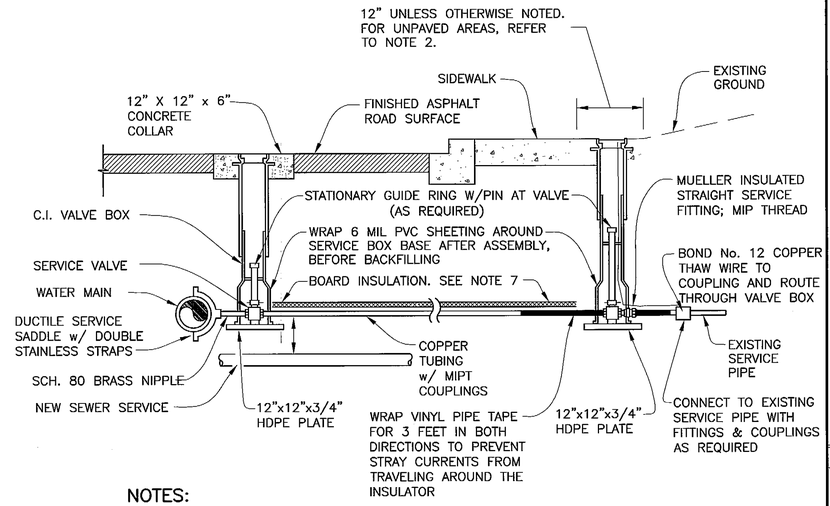
NOTES:
1. ALL BOLT THREADS TO BE GREASED PRIOR TO INSTALLATION.
2. MECHANICAL RESTRAINED JOINTS TO BE USED THROUGHOUT.
3. HYDRANT PAINT SHALL BE SPECIFIED BY THE ENGINEER.
4. DOUBLE DIPPED GALVANIZED NUTS AND BOLTS SHALL BE FREE OF CONCRETE.
5. PLACE BURIED UTILITY WARNING TAPE ABOVE THE HYDRANT LEAD.

TYPICAL FIRE HYDRANT
N.T.S.



NOTES:
1. ALL BOLT THREADS TO BE GREASED PRIOR TO INSTALLATION.
2. THRUST BLOCK MAY BE OMITTED IF PIPE BEYOND VALVE IS CONNECTED TOGETHER w/ RESTRAINED JOINTS 40 FEET EACH WAY.
3. PLACE BOARD INSULATION w/ BURIED UTILITY WARNING TAPE ABOVE AS REQUIRED.
4. SERVICES SMALLER THAN 4" SHALL BE COPPER PIPE. SERVICES 4" AND LARGER SHALL BE D.I.P. CLASS 250.
5. WHERE WATER SERVICE IS ABOVE GROUND, PIPE SHALL HAVE MECHANICAL RESTRAINED JOINTS AND SHALL BE FACTORY INSULATED PIPE WITH 2" OF FOAM INSULATION AND INTEGRAL METAL JACKET.
6. WHERE MULTIPLE CONNECTIONS ARE MADE TO END OF SERVICE LINE, INSTALL TEE FITTING WITH BLIND FLANGED ENDS. TAP CONNECTIONS INTO TEE FITTING.

TYPICAL WATER SERVICE - LARGER THAN 2"
N.T.S.



NOTES:
1. INSTALL TOP OF VALVE BOX IN SIDEWALK AS SHOWN, 1/4" BELOW TOP OF PAVED SURFACE.
2. IN AREAS WITHOUT SIDEWALK, INSTALL VALVE BOX 6" BEHIND CURB, 1/4" BELOW PAVED SURFACE OR 3" BELOW UNPAVED SURFACES.
3. ALLOW 12" FOR RAISING VALVE BOX. GREASE THE OVERLAPPING PORTION.
4. ENLARGED BASE IS REQUIRED FOR 1" SERVICE VALVES AND LARGER.
5. A SERVICE VALVE ROD EXTENSION IS REQUIRED ON ALL SERVICE VALVES 6' OR MORE BELOW FINISHED GRADE.
6. EXTEND SERVICE PAST SERVICE VALVE TO EXISTING SERVICE PIPE AS REQUIRED TO ESTABLISH SERVICE OR AS INDICATED ON THE PLANS. WHERE SERVICE EXTENSION IS ABOVE GROUND, PIPE SHALL BE INSULATED WITH 2" OF FOAM INSULATION WITH PROTECTIVE COATING.
7. PLACE BOARD INSULATION w/ BURIED UTILITY WARNING TAPE ABOVE AS REQUIRED.
8. IN UNPAVED STREETS OR AREAS WITHOUT SIDEWALKS, EACH VALVE BOX TO BE SUPPORTED BY A 12"x 12"x 6" CONCRETE PAD POURED AROUND THE UPPER SERVICE BOX TOP.

TYPICAL BURIED WATER SERVICE - 2" AND SMALLER
N.T.S.

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: Q:\Ktn\71811A\Planset\P17_WHITECLIFF_WATER_
Tue, 28/Jun/05 10:48AM rksnyder
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: P17_DETAILS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Whitecliff Waterline Details

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Eng _____ Date _____

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th
Tracy W. Moore CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Whitecliff Waterline Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
P17	146

BEGIN PROJECT STA."0"20+25

END PROJECT STA."0"80+20

U.S.S. 1378 TRACT A-4

U.S.S. 3835

U.S.M.S. 787

TRACT 1004 TRACT C

TRACT 1004 U.S.M.S. 769 COLUMBIA LODE

TRACT 1004 U.S.M.S. 769 WYOMING LODE

U.S.S. 1378 TRACT A-2

U.S.M.S. 769 TONAWANDA LODE

U.S.M.S. 769 TREMONT LODE

U.S.M.S. 769 BEAR VALLEY ADDITION

U.S.S. 1229 HEATH ADDITION

U.S.S. 1378 CHARCOAL POINT ADDITION

U.S.S. 1378 TRACT A-3

U.S.S. 1378 TRACT A-5-A

U.S.S. 1378 TRACT A-5-B

U.S.S. 1378 CHARCOAL POINT ADDITION

TRACT 1004 TRACT E

TRACT 1004 TRACT G

TRACT F

U.S.M.S. 769

KENTUCKY LODE UNDIVIDED REMAINDER

U.S.S. 437 UNDIVIDED REMAINDER TRACT A

BEAR VALLEY ADDITION

HIGHLANDS SUBDIVISION

U.S.M.S. 769 HIGHLANDS SUBDIVISION

U.S.M.S. 586 INGERSOLL ADDITION

TRACT 1005

T.L.A. TO U.S.S. 1229

T.L.A. TO U.S.S. 1378

T.L.A. TO U.S.M.S. 787

T.L.A. TO U.S.S. 1378

RAINBIRD TRAIL EASEMENT

CITY PARK RESERVE

FOURTH AVENUE

THIRD AVENUE

SECOND AVENUE

FIRST AVENUE

HEMLOCK AVENUE

TONGASS AVE.

WATER ST.

MILLAR STREET

FRONT STREET

BLACK BEAR ROAD

FAIRY CHASM ROAD

SCHOENBAR ROAD

FOREST AVE.

ADAMS ST.

WASHINGTON ST.

AUSTIN ST.

NOTES

1) THE BASIS OF BEARING FOR THIS PROJECT IS THE RECORD GRID BEARING OF S 88°29'20" W BETWEEN KGB CONTROL MONUMENT 1015, A DOH MONUMENT IN A CASE IN FRONT OF 2324 TONGASS AVE. AND KGB CONTROL MONUMENT 1014, A 3" BRASS P.I. MONUMENT IN A CASE IN FRONT OF 2106 TONGASS AVE. ALL BEARINGS ARE NAD 27 GRID BEARINGS BASED ON THE KETCHIKAN GATEWAY BOROUGH CONTROL NETWORK OF 1984. KGB CONTROL MONUMENT 1015 IS ALSO KNOWN AS MONUMENT "J" AND KGB CONTROL MONUMENT 1014 IS ALSO KNOWN AS MONUMENT "I" ON THE KETCHIKAN TIDELANDS SUBDIVISION PLAT OF 1964.

2) WHERE RECORD COURSES DIFFER FROM MEASURED OR COMPUTED COURSES, THE RECORD COURSE IS IN PARENTHESIS.

3) THE PURPOSE OF PLAN SHEETS R-1 THRU R-5 IS TO DELINEATE THE LIMITS OF PROPERTY INTEREST REQUIRED FOR CONSTRUCTION OF THIS PROJECT. RIGHT OF WAY PLANS WILL BE FILED UPON COMPLETION OF THE PROJECT, AND UPON PLAT APPROVAL BY THE KETCHIKAN GATEWAY BOROUGH PLATTING AUTHORITY.

4) THE FIELD SURVEY FOR THIS PROJECT WAS PERFORMED BY THE DOT & PF LOCATIONS SURVEY CREW. THE MONUMENT TIES, LOCATION OF TOPOGRAPHY, AND TRAVERSE ADJUSTMENTS WERE DIRECTLY SUPERVISED BY THE SENIOR LOCATIONS ENGINEER, SOUTHEAST REGION.

5) THE PREPARATION OF THESE PLANS WAS DIRECTLY SUPERVISED BY THE SENIOR RIGHT OF WAY AGENT, TITLES AND PLANS SECTION, SOUTHEAST REGION. THE LOCATION OF THE EXISTING RIGHT OF WAY CORRIDOR AND ADJACENT PROPERTY LINES AND EASEMENTS WAS COMPUTED FROM RECORD INFORMATION AND ADJUSTED TO RECOVERED SURVEY MONUMENTS AS SHOWN AND DESCRIBED.

STATE OF ALASKA 49th Robert B. Murphy LS#7331 REGISTERED PROFESSIONAL LAND SURVEYOR

DATE	REVISIONS	BY
5/02	DELETE P-22, P-32	ROW
11/01	DELETE PARCEL 26,28 ADD PARCEL 26A, 26B	ROW
6/01	ADD PARCELS 10A, 26, 27, 28, P-10, P-29, P-30	ROW
6/01	REVISE PARCELS 7, 8B, 8C, 8D & P-7	ROW
10/99	ADD P-7, P-24, P-25	GY

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION

&

PUBLIC FACILITIES

RIGHT OF WAY MAP

ALASKA PROJECT NO.

STP-0904(001) 71811

KETCHIKAN-THIRD AVE. EXTENSION

DRAWN ROW	DATE 5/02	SCALE 1"=200'
CHECKED RM	DATE 5/02	SHEET R1 OF R5

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06


U.S.S. 1378
CHARCOAL POINT ADDITION
CITY PARK RESERVE
KETCHIKAN GATEWAY BOROUGH
U.S.S. 1378
TRACT A-4
CITY OF KETCHIKAN
U.S.M.S. 787
CITY OF KETCHIKAN
SURVEYOR'S CERTIFICATE
I HEREBY CERTIFY that I am properly registered and licensed to practice land surveying in the State of Alaska and that this plat was made by me or under my supervision. I declare that this plat was based upon the monuments recovered during State of Alaska Locations Survey 71811 dated ______ and that all dimensions and other details are accurate.
Robert B. Murphy LS-7331 Date 5-6-02
STATE OF ALASKA 49th Robert B. Murphy LS#7331 REGISTERED PROFESSIONAL LAND SURVEYOR
BLM B.C. C-5 U.S.S. 1280
U.S.S. BOUNDARY
AUSTIN ST.
FOURTH AVENUE
WASHINGTON ST.
U.S.S. 1229
HEATH ADDITION
THIRD AVENUE
WEST THIRD STREET
SECOND AVENUE
WHITECLIFF AVE.
U.S.S. 1378
CHARCOAL POINT ADDITION
U.S.M.S. 787
WHITECLIFF SCHOOL TRACT
RAINBIRD TRAIL 10' EASEMENT BK.0292, P.277
PROPOSED RETAINING WALL
SLOPE LIMITS
BEGIN PROJECT STA. 20+25.00
FND. B.C. MON.
3" PIPE IN CASE WCMC 1 U.S.S. 1229
TIDELANDS B.C. MON C2 U.S.M.S. 787
DETAIL (NO SCALE)
DETAIL (NO SCALE) P-24 STA. 20+78.00 OFFSET 30.00' LT. STA. 20+58.00 OFFSET 30.00' LT. LOT 3
DETAIL (NO SCALE) P-25 LOT 3-A STA. 13+40.00 OFFSET 25.00' RT. STA. 13+22.61 OFFSET 25.00' RT.
DETAIL (NO SCALE) LOT 4 STA. 20+19.96 OFFSET: 33.18 L P-33 R/W LIMITS
DETAIL (NO SCALE) NEW DECK EXISTING DECK LOT 2 HOUTARY BLOCK 16 LOT 3 WEST THIRD STREET BLOCK 13 LOT 1

PERMIT	OWNER	AREA	PURPOSE
P-6	HERBERT & SONJA HOUTARY	284 S.F.	ACCESS TO CONSTRUCT RETAINING WALL
P-7	KETCHIKAN GATEWAY BOROUGH	36,050 S.F.	ACCESS TO CONSTRUCT SLOPES AND PARKING
P-24	RICHARD &PAMELA HAMLIN	136 S.F.	ACCESS TO RE-CONSTRUCT DRIVEWAY
P-25	JAMES & MARLENE SCANLON	88 S.F.	ACCESS TO CONSTRUCT ROCKERY WALL
P-31	CARTER	1530 S.F.	CONSTRUCT DRAINAGE
P-33	MAY	100 S.F.	IMPROVE DRAINAGE

PARCEL	OWNER	AREA	REMAIN
1	ANTHONY & DEBRA AZURE	6,187 S.F.	-0-
4	GEORGE & GAIL PORTER	7,692 S.F.	-0-
4-X	GEORGE & GAIL PORTER	10,120 S.F.	-0-
5	KENNETH & ANITA DUCKETT	7,917 S.F.	-0-
6	HERBERT & SONJA HOUTARY	117 S.F.	4,633 S.F.
7	KETCHIKAN GATEWAY BOROUGH	1.26 AC.	4.01 AC.
8B	CITY OF KETCHIKAN	1.15 AC.	LARGE
8C	CITY OF KETCHIKAN	1.97 AC.	LARGE

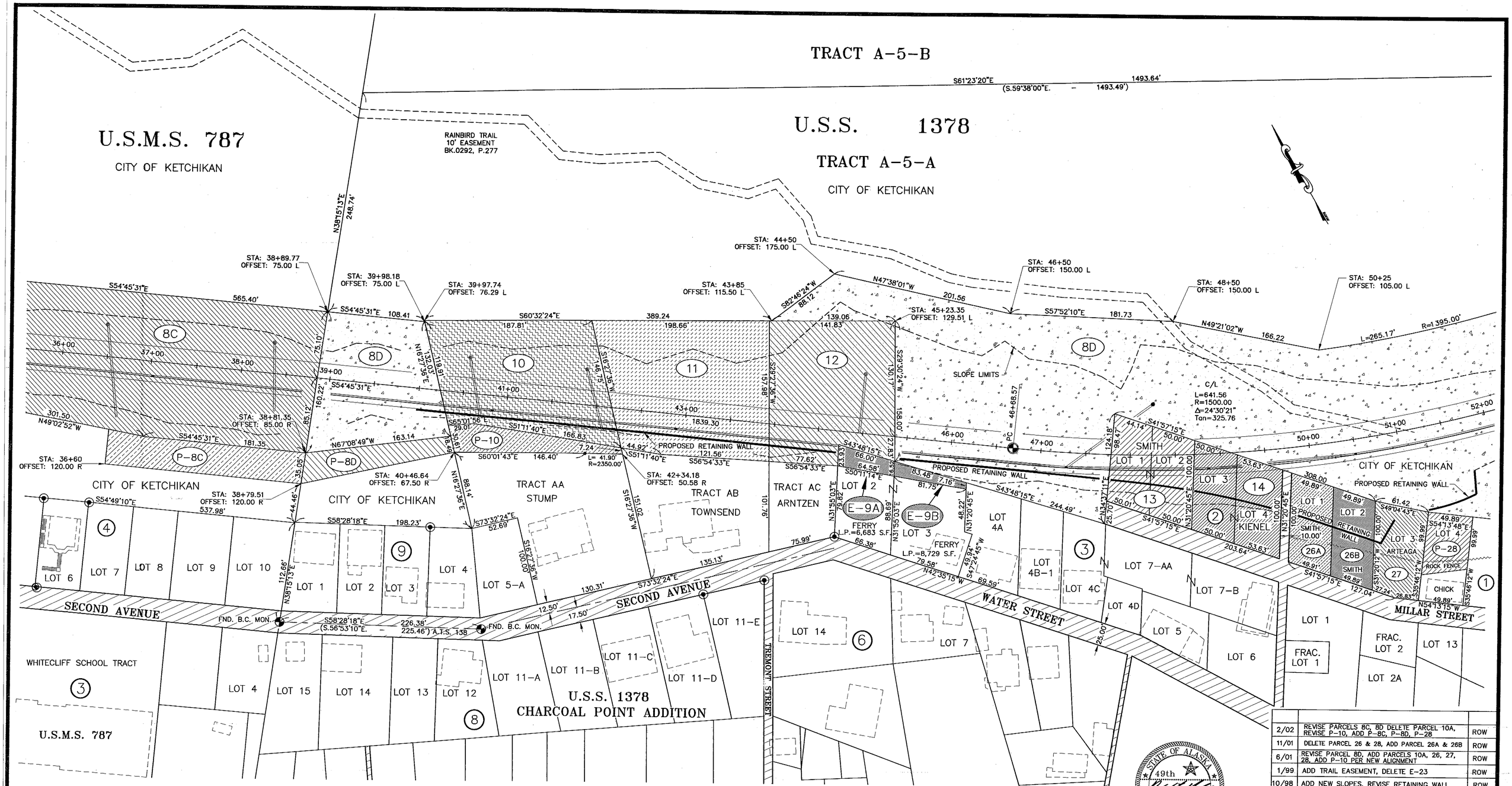
DATE	REVISIONS	BY
5/02	DELETE P-32	ROW
2/02	REVISED PARCELS 7, 8B, 8C & P-7 DELETED PARCEL 8A, ADD P-31, P-32, P-33	ROW
6/01	REVISED PARCELS 7, 8B, 8C & P-7 PER NEW ALIGNMENT	ROW
10/99	ADD P-24, P-25	ROW
5/99	ADD P-7	ROW
1/99	ADD PARCEL 4-X & TRAIL EASEMENT	ROW
10/98	ADD NEW SLOPE LIMITS & RETAINING WALL	ROW
10/98	ADD P-6	ROW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO.
STP-0904(001) 71811
KETCHIKAN-THIRD AVE. EXTENSION

DRAWN ROW	DATE 3/98	SCALE 1"=50'
CHECKED	DATE	SHEET R2 OF R5

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng ______ Date 10-31-06



PERMIT	OWNER	AREA	PURPOSE
P-8C	CITY OF KETCHIKAN	7795 S.F.	CONSTRUCTION ACCESS
P-8D	CITY OF KETCHIKAN	4375 S.F.	CONSTRUCTION ACCESS
P-10	W. CLARK & DIANNE STUMP	1852 S.F.	CONSTRUCTION ACCESS
P-28	CHICK	3242 S.F.	CONSTRUCTION ACCESS
EASEMENT	OWNER	AREA	PURPOSE
E-9A	RAMONA L. FERRY	1294 S.F.	HIGHWAY CONSTRUCTION
E-9B	RAMONA L. FERRY	958 S.F.	HIGHWAY CONSTRUCTION

PARCEL	OWNER	AREA	REMAIN
8C	CITY OF KETCHIKAN	SEE SHT 3	
8D	CITY OF KETCHIKAN	4.54 AC.	LARGE
10	W. CLARK & DIANNE STUMP	23,946 S.F.	26,983 S.F.
11	HOWARD & KRISTINA TOWNSEND	27,559 S.F.	18,361 S.F.

PARCEL	OWNER	AREA	REMAIN
12	RONALD & KATHY ARNTZEN	21,980 S.F.	6,865 S.F.
13	HAROLD GILBERT SMITH	9,298 S.F.	-0-
14	SONJA M. KIENEL	9,926 S.F.	-0-
26A	HAROLD SMITH	4,780 S.F.	-0-
26B	HAROLD SMITH	4,799 S.F.	-0-
27	CHARLES & VEDA ARTEAGA	5,778 S.F.	-0-

STATE OF ALASKA
49th
Robert B. Murphy
LS#7331
REGISTERED PROFESSIONAL LAND SURVEYOR

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY that I am properly registered and licensed to practice land surveying in the State of Alaska and that this plat was made by me or under my supervision. I declare that this plat was based upon the monuments recovered during State of Alaska Locations Survey 71811 dated _____ and that all dimensions and other details are accurate.

Robert B. Murphy LS-7331 — 5-6-02 Date

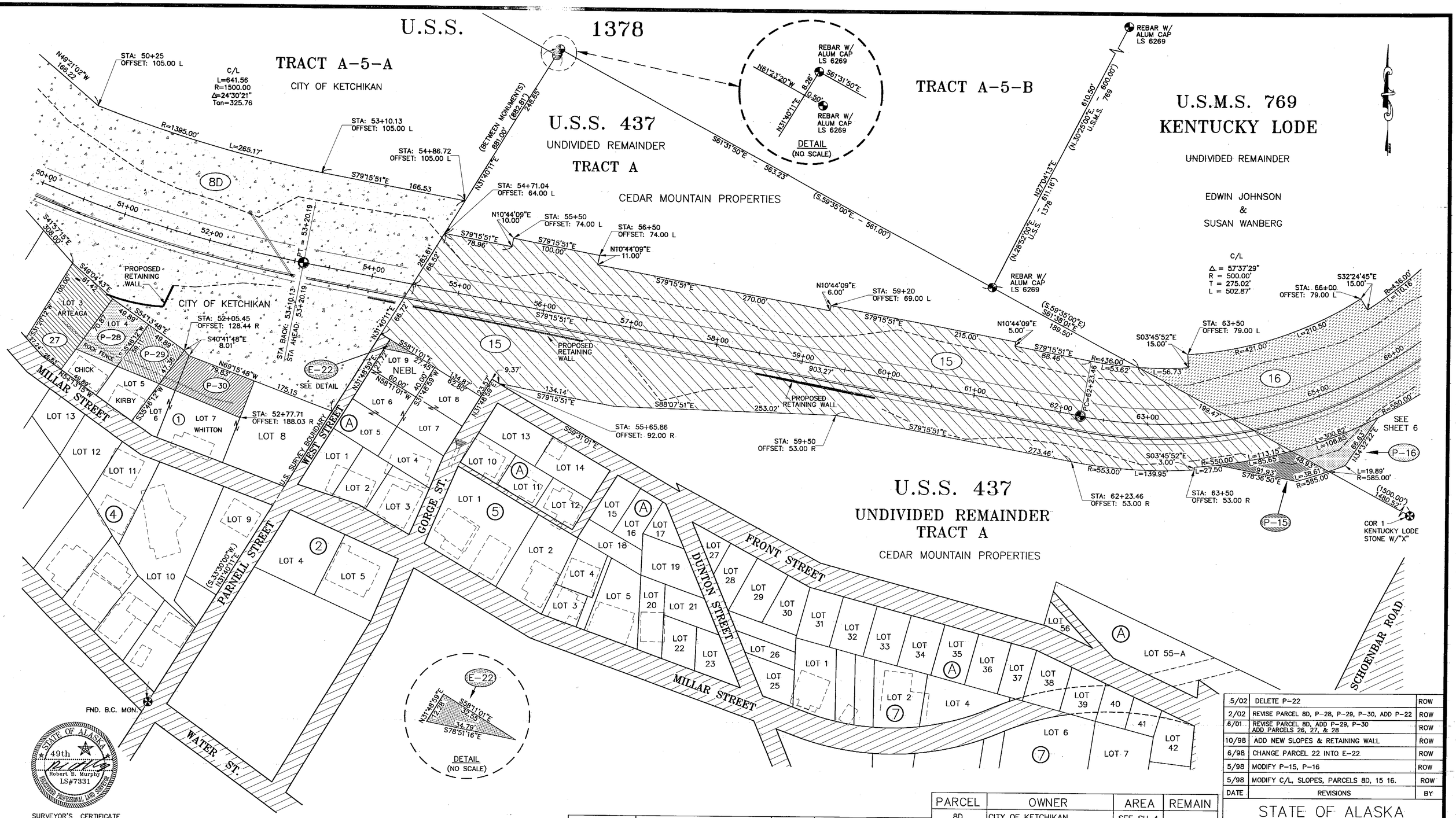
DATE	REVISIONS	BY
2/02	REVISE PARCELS 8C, 8D DELETE PARCEL 10A, REVISE P-10, ADD P-8C, P-8D, P-28	ROW
11/01	DELETE PARCEL 26 & 28, ADD PARCEL 26A & 26B	ROW
6/01	REVISE PARCEL 8D, ADD PARCELS 10A, 26, 27, 28, ADD P-10 PER NEW ALIGNMENT	ROW
1/99	ADD TRAIL EASEMENT, DELETE E-23	ROW
10/98	ADD NEW SLOPES, REVISE RETAINING WALL	ROW
5/98	MODIFY C/L, SLOPES, PARCEL 8D	ROW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO.
STP-0904(001) 71811
KETCHIKAN-THIRD AVE. EXTENSION

DRAWN ROW	DATE 3/98	SCALE 1"=50'	
CHECKED	DATE	SHEET R3 OF R5	

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY that I am properly registered and licensed to practice land surveying in the State of Alaska and that this plat was made by me or under my supervision. I declare that this plat was based upon the monuments recovered during State of Alaska Locations Survey 71811 dated _____ and that all dimensions and other details are accurate.

Robert B. Murphy LS-7331 — Date 5-6-02

EASEMENT	OWNER	AREA	PURPOSE
E-22	NIKOLAUS & TOMMY LOU NEBL	200 S.F.	

PERMIT	OWNER	AREA	PURPOSE
P-15	CEDAR MOUNTAIN PROPERTIES	2090 S.F.	
P-16	JOHNSON / WANBERG	SEE SH 6	
P-28	CHICK	SEE SH 4	
P-29	KIRBY	2656 S.F.	CONSTRUCT ROCK CATCHMENT BARRIER
P-30	WHITTON	4088 S.F.	CONSTRUCT ROCK CATCHMENT BARRIER

PARCEL	OWNER	AREA	REMAIN
8D	CITY OF KETCHIKAN	SEE SH 4	
15	CEDAR MOUNTAIN PROPERTIES	2.90 AC.	5.75 AC.
16	JOHNSON / WANBERG	SEE SH 6	
27	CHARLES & VEDA ARTEAGA	SEE SH 4	

DATE	REVISIONS	BY
5/02	DELETE P-22	ROW
2/02	REVISE PARCEL 8D, P-28, P-29, P-30, ADD P-22	ROW
6/01	REVISE PARCEL 8D, ADD P-29, P-30 ADD PARCELS 26, 27, & 28	ROW
10/98	ADD NEW SLOPES & RETAINING WALL	ROW
6/98	CHANGE PARCEL 22 INTO E-22	ROW
5/98	MODIFY P-15, P-16	ROW
5/98	MODIFY C/L, SLOPES, PARCELS 8D, 15 16.	ROW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO.
STP-0904(001) 71811
KETCHIKAN-THIRD AVE. EXTENSION

DRAWN ROW	DATE 3/98	SCALE 1"=50'
CHECKED	DATE	SHEET R4 OF R5

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06

PARCEL	OWNER	AREA	REMAIN
2	STATE OF ALASKA	ACQUIRED UNDER STATE PROJECT NO. 71047	
3	CHARLES BREDEHOFT	4,969 S.F.	-0-
16	JOHNSON / WANBERG	1.82 AC.	6.42 AC.
17	CHARLES & NANCY RULE	10,016 S.F.	-0-
18	ROBERT BLOOM	5,153 S.F.	-0-
19	JOHNSON/WANBERG/SEAFORD	4,283 S.F.	13.96 AC.
20	MICHAEL & AURORA PECAROVICH	8,535 S.F.	-0-
21	GEORGE LYBRAND	18,382 S.F.	10.87 AC.

PERMIT	OWNER	AREA	PURPOSE
P-16	JOHNSON / WANBERG	2,185 S.F.	

STATE OF ALASKA 49th Robert B. Murphy LS#7331 REGISTERED PROFESSIONAL LAND SURVEYOR

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY that I am properly registered and licensed to practice land surveying in the State of Alaska and that this plat was made by me or under my supervision. I declare that this plat was based upon the monuments recovered during State of Alaska Locations Survey 71811 dated ________ and that all dimensions and other details are accurate.

Robert B. Murphy LS-7331 5-6-02 Date

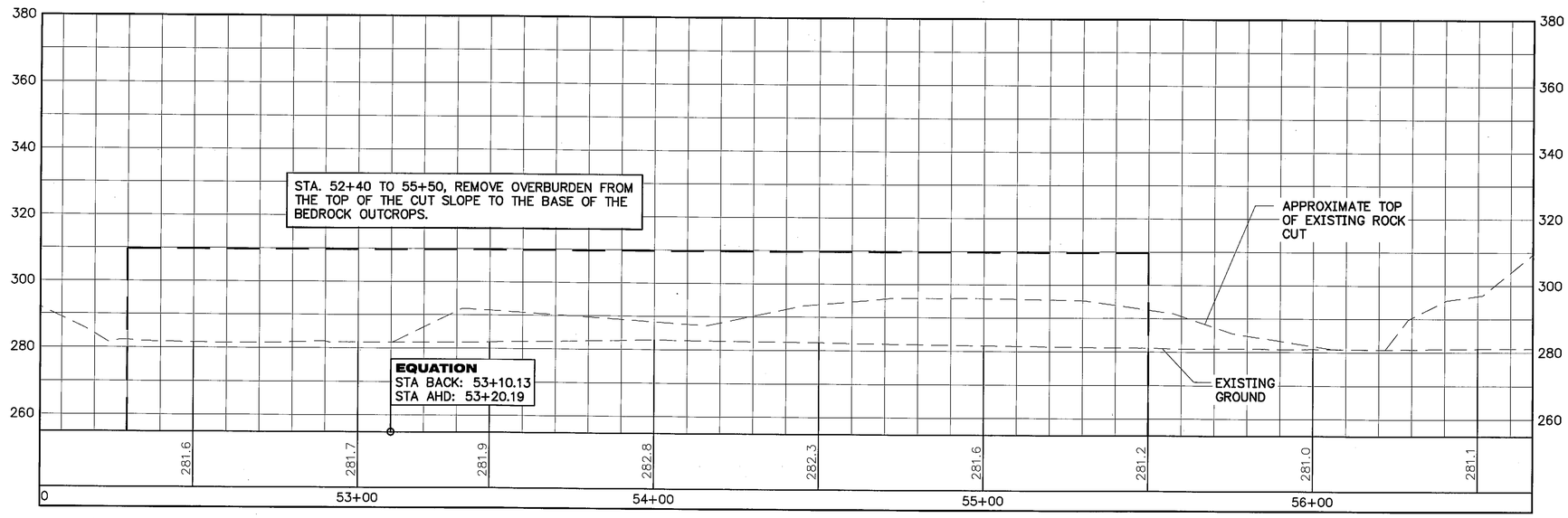
1/99	MODIFY C/L, SLOPES & PARCELS 16,19,21	ROW
10/98	ADD NEW SLOPE LIMITS	ROW
5/98	MODIFY C/L, SLOPES, PARCEL 16, P-16.	ROW
DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO.
STP-0904(001) 71811
KETCHIKAN-THIRD AVE. EXTENSION

DRAWN ROW	DATE 3/98	SCALE 1"=50'	
CHECKED	DATE	SHEET R5 OF R5	

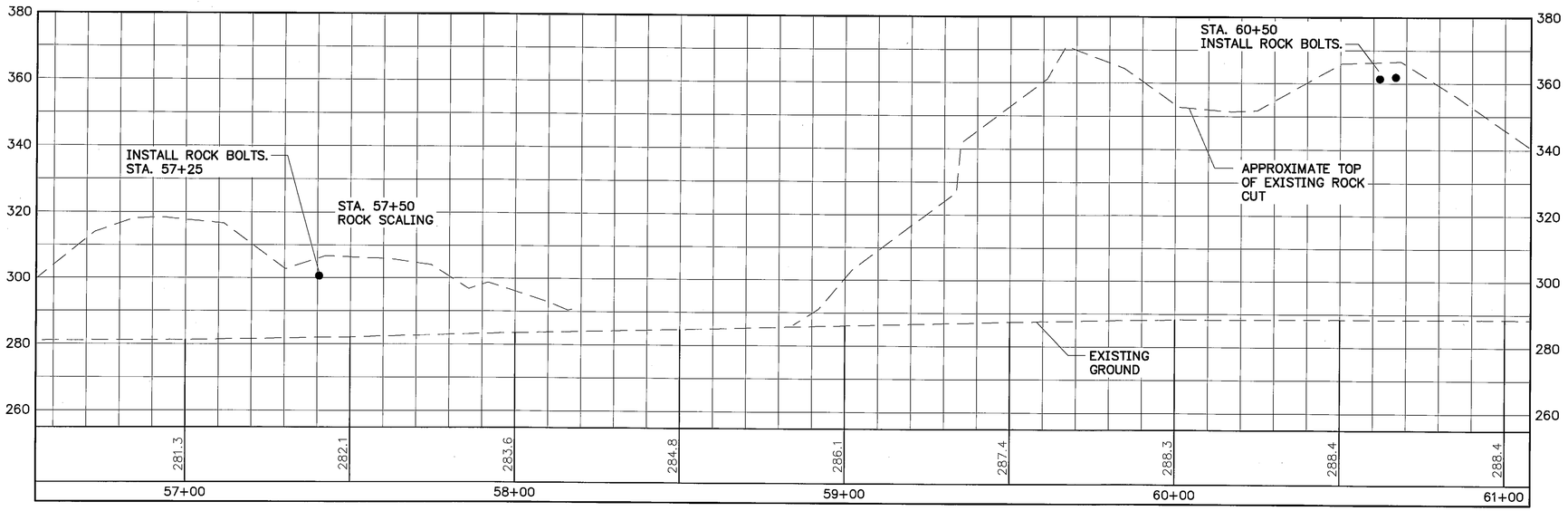
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. [signature] Date 10-31-06



Notes:

1. LOCATIONS AND LENGTHS OF ROCK BOLTS ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED BY THE ENGINEER.



Third Avenue
Slope Stabilization Plan

PATH:
Q:\Ktn\68490\Planset\S_Slope Stabilization.dwg
Fri, 29/Dec/06 11:42AM rksnyder
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Slope Stabilization Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

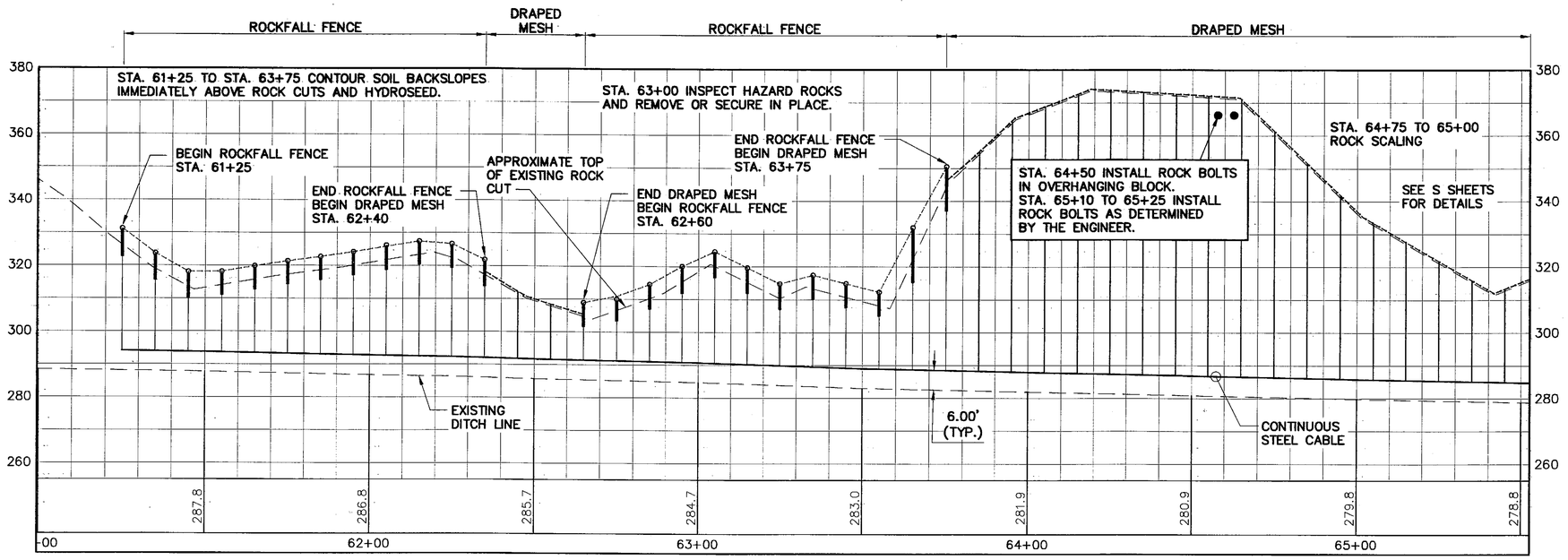
CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

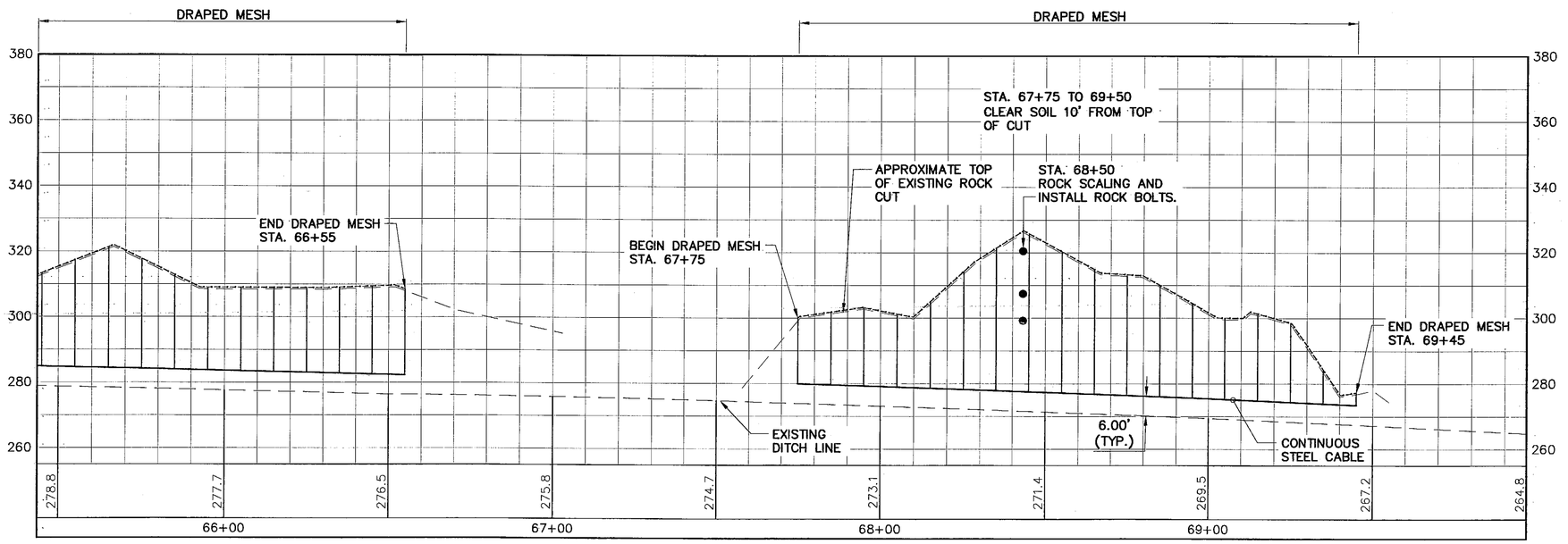
Slope Stabilization Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
S1	146



Notes:

1. LOCATIONS AND LENGTHS OF ROCK BOLTS ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED BY THE ENGINEER.



Third Avenue
Slope Stabilization Plan

PATH: Q:\Ktn\71811A\Planset\S_Slope Stabilization.dwg
Tue, 07/May/02 10:43AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Slope Stabilization Plan

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Slope Stabilization Plan

PROJECT DESIGNATION NUMBER

STP-MG-0904(2)

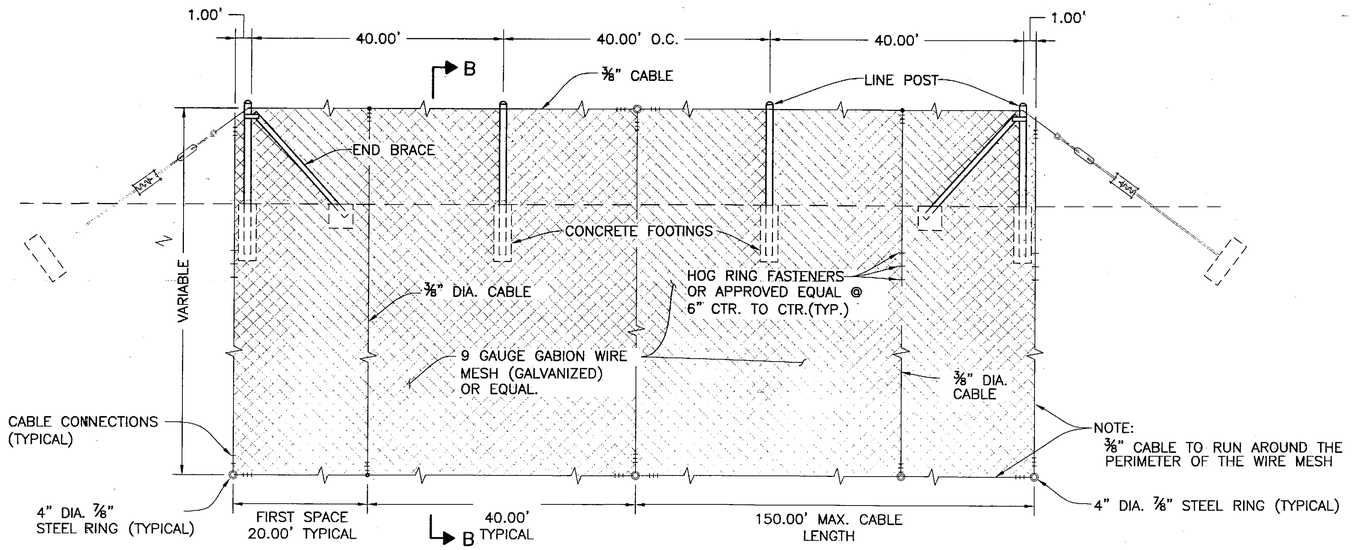
STATE	YEAR
ALASKA	2002

SHEET NUMBER	TOTAL SHEETS
S2	146

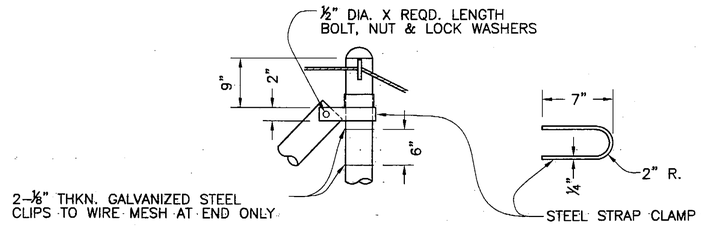
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06

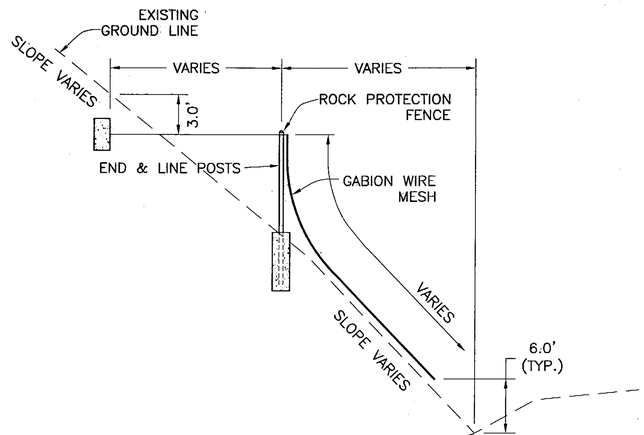
ROCKFALL FENCE



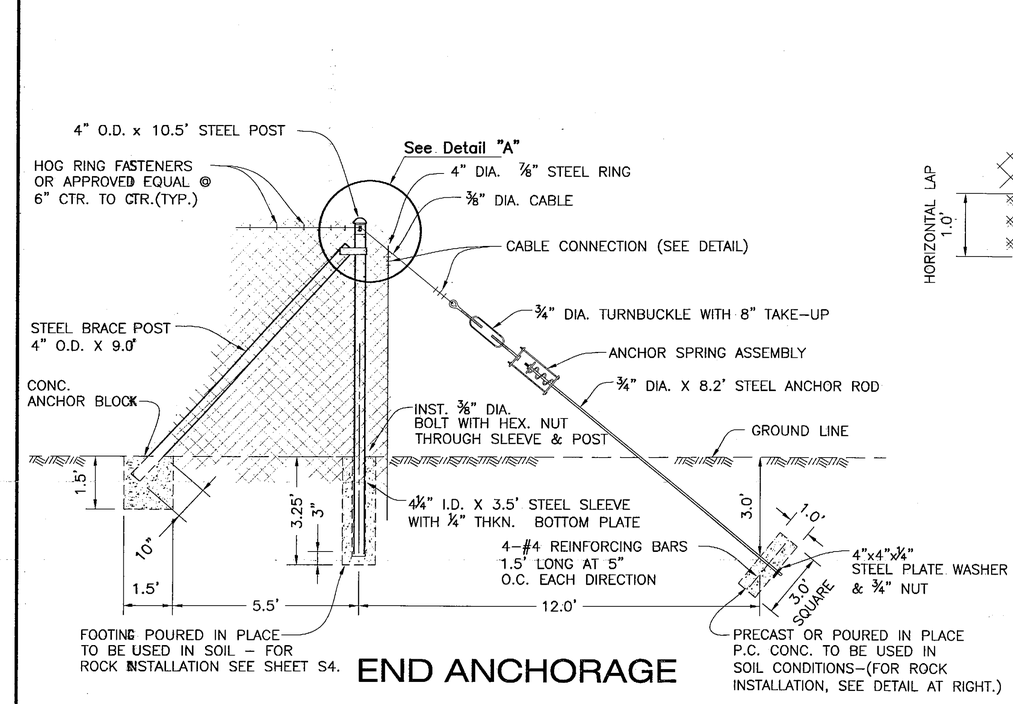
ROCKFALL FENCE



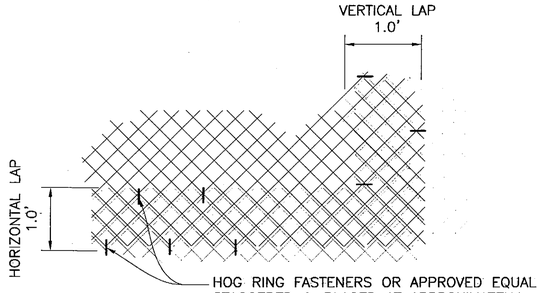
DETAIL "A"



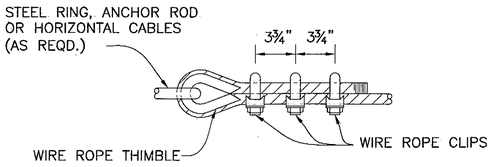
SECTION B-B



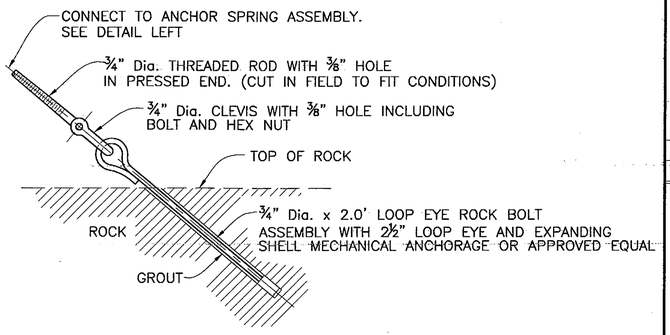
END ANCHORAGE



WIRE MESH LAP



CABLE CONNECTION



END ANCHOR
(Installation In Rock)

PATH: Q:\Ktn\71811A\Planset\S3_ROCKFALLFENCE.dwg
Tue, 07/May/02 10:50AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: Layout1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Rockfall Fence

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th — Tracy V. Moore — CE-4932 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: M. LIMBAUGH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

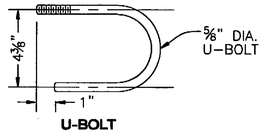
Rockfall Fence

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
S3	146

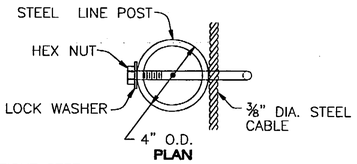
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06

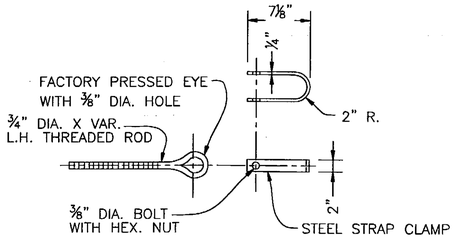
ROCKFALL FENCE



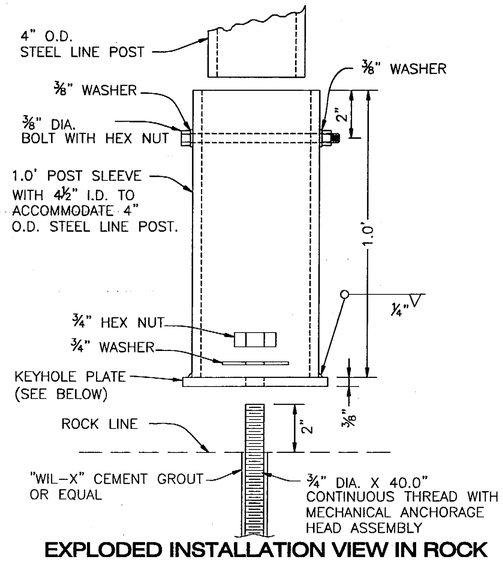
U-BOLT



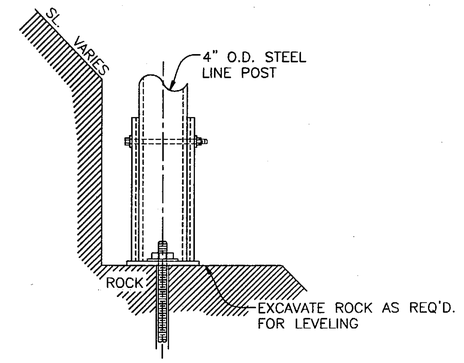
PLAN



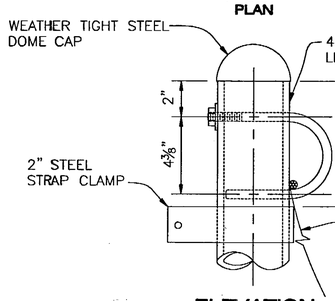
DETAIL "C"



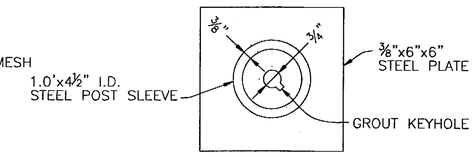
EXPLODED INSTALLATION VIEW IN ROCK
DETAIL "D"



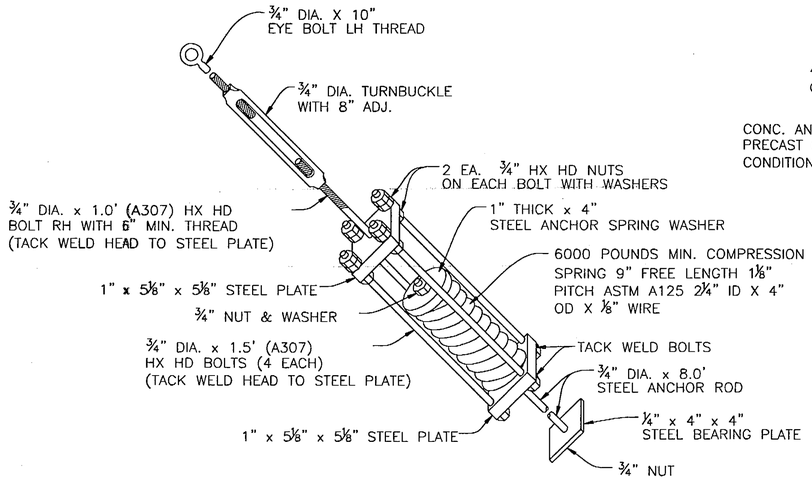
DETAIL "D"
(SEE EXPLODED VIEW, LEFT)



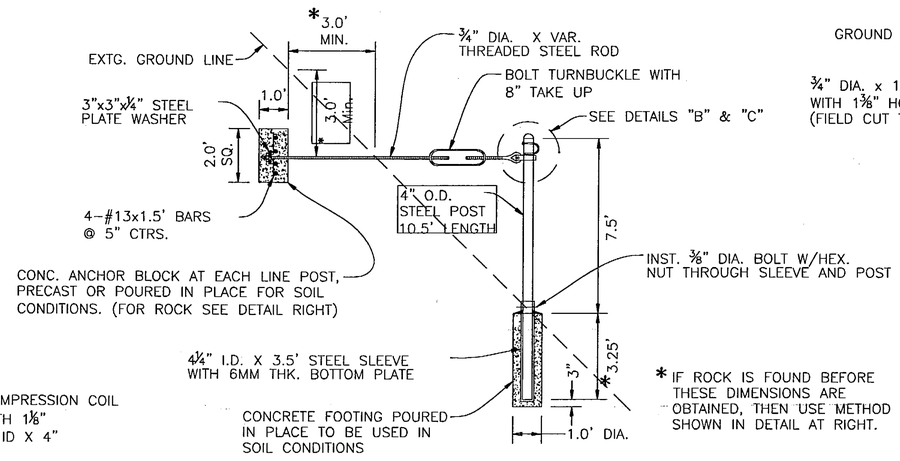
ELEVATION
DETAIL "B"



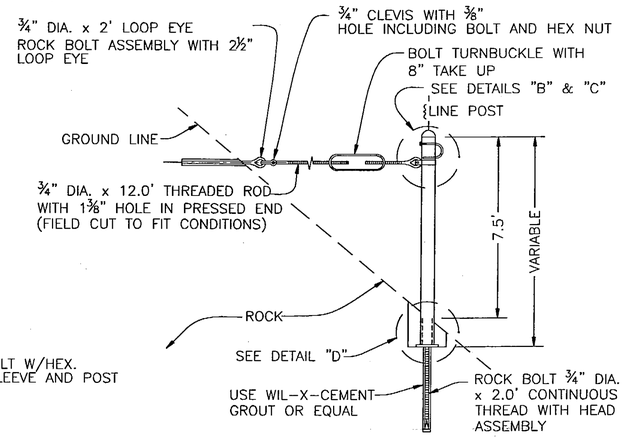
KEYHOLE PLATE



ANCHOR SPRING ASSEMBLY



INSTALLATION IN SOIL



INSTALLATION IN ROCK

PATH: Q:\Ktn\71811A\Planset\S4_ROCKFALLFENCE.dwg
Mon, 06/May/02 11:16AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: S4

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Rockfall Fence

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: M. LIMBAUGH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Rockfall Fence

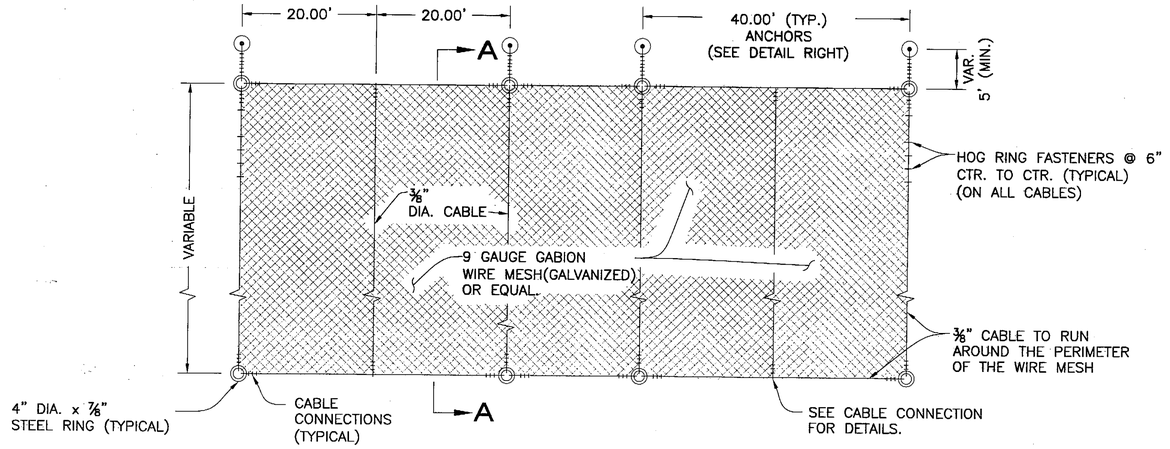
PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
S4	146

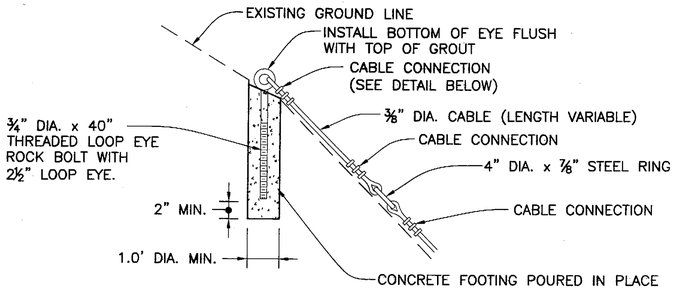
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10/31/06

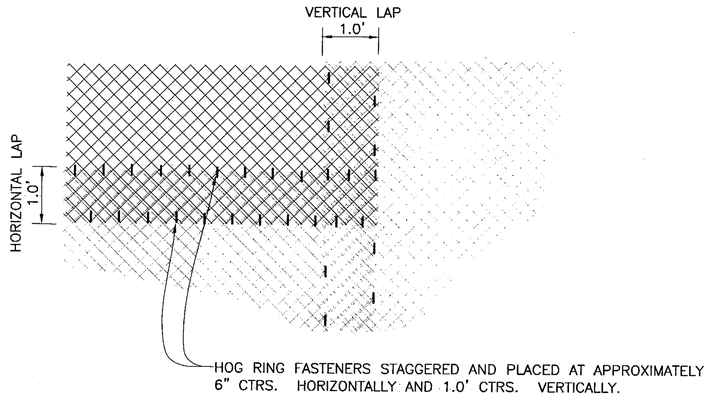
DRAPED MESH DETAILS



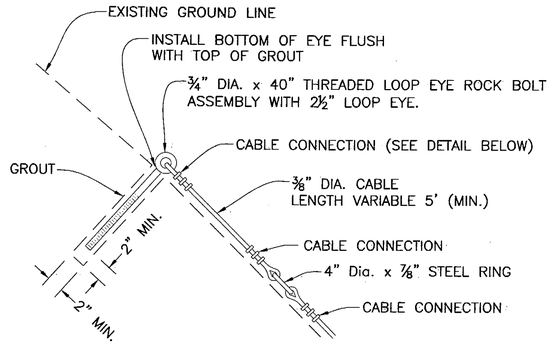
DRAPED MESH



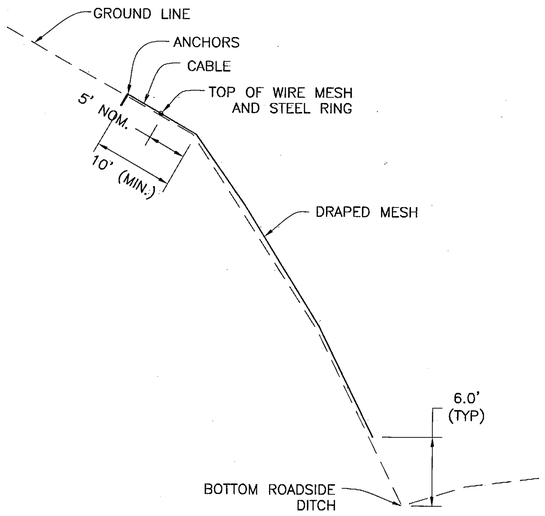
ANCHOR INSTALLATION IN SOIL



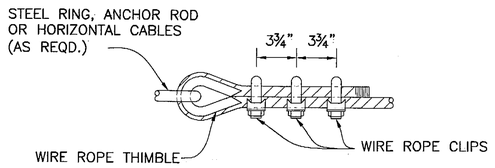
WIRE MESH LAP DETAIL



ANCHOR INSTALLATION IN ROCK



SECTION A-A



CABLE CONNECTION

PATH:
Q:\Ktn\71811A\Planset\S5_DrapedMesh.dwg
Tue, 07/May/02 10:50AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: Layout1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Draped Mesh Details

DESIGNED BY: C. HOWARD

STATE OF ALASKA 49th Tracy W. Moore CE-4932 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: M. LIMBAUGH

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

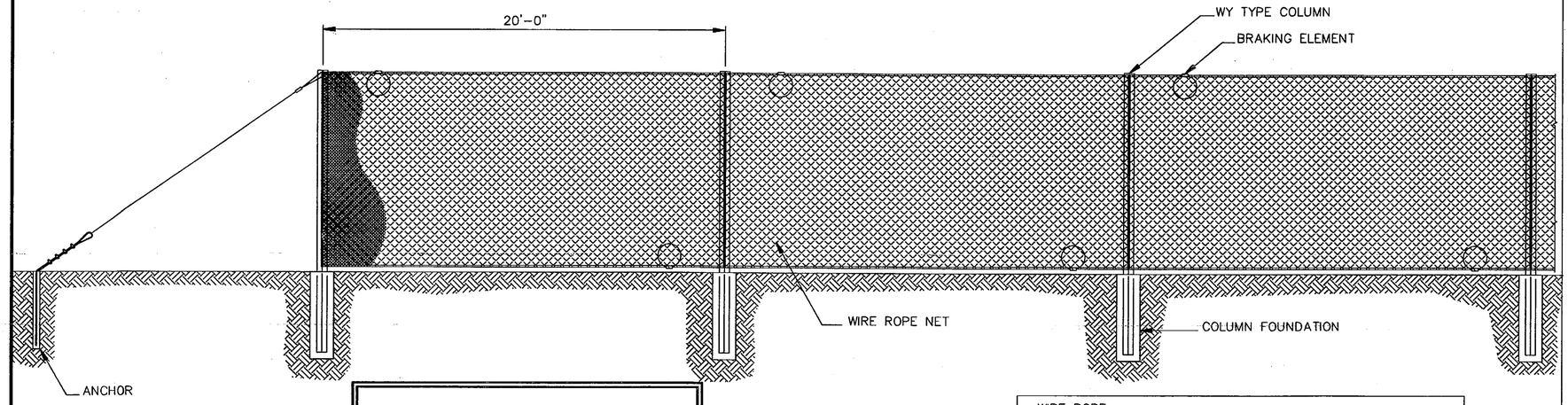
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Draped Mesh Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
S5	146

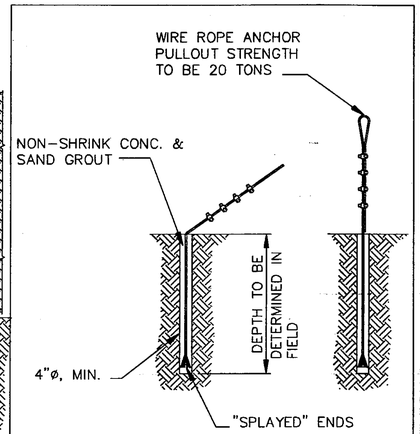
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06

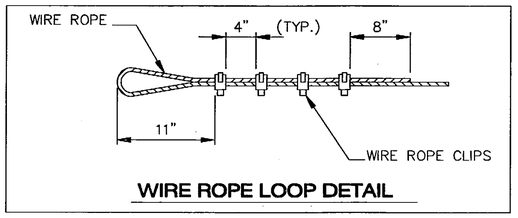


TYPICAL LAYOUT

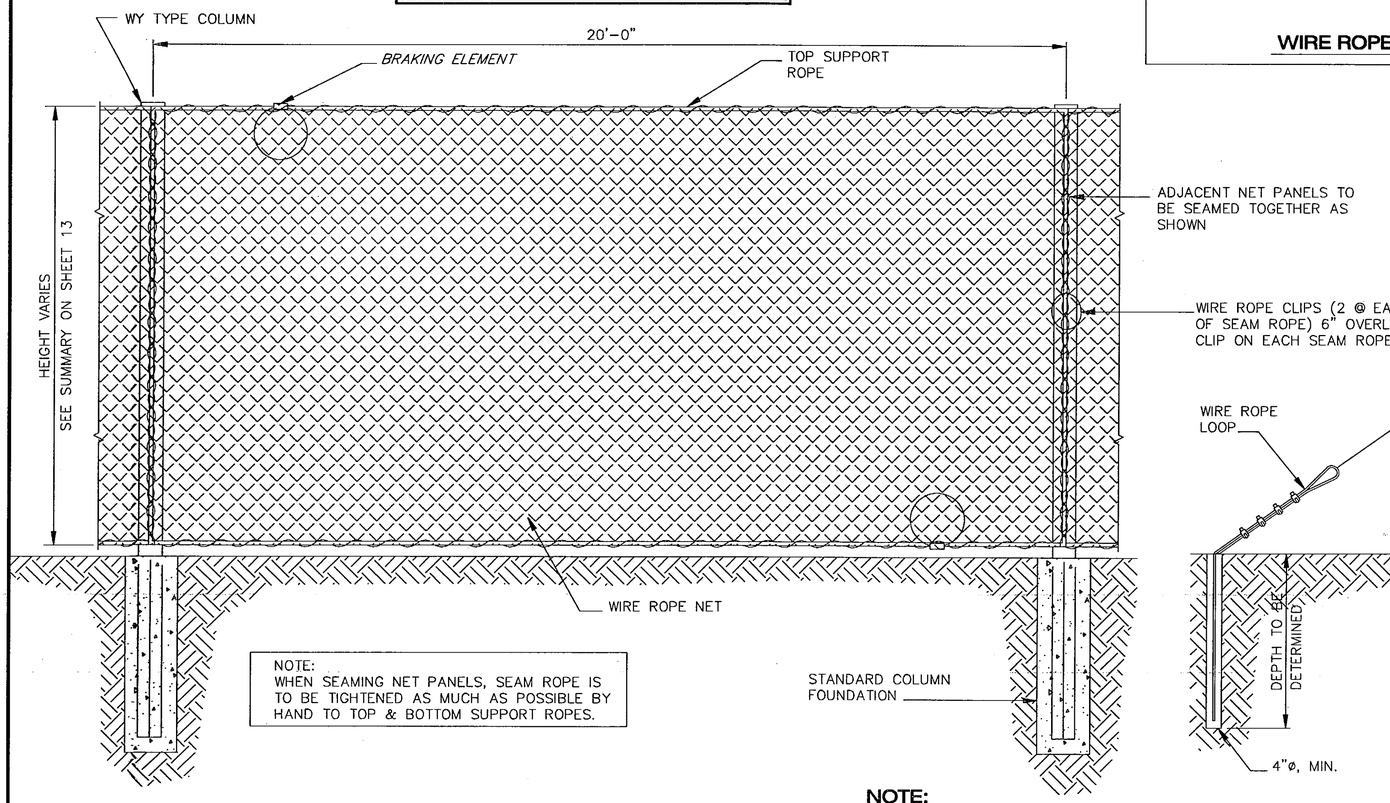
FOR INFORMATION USE ONLY



ANCHOR DETAIL



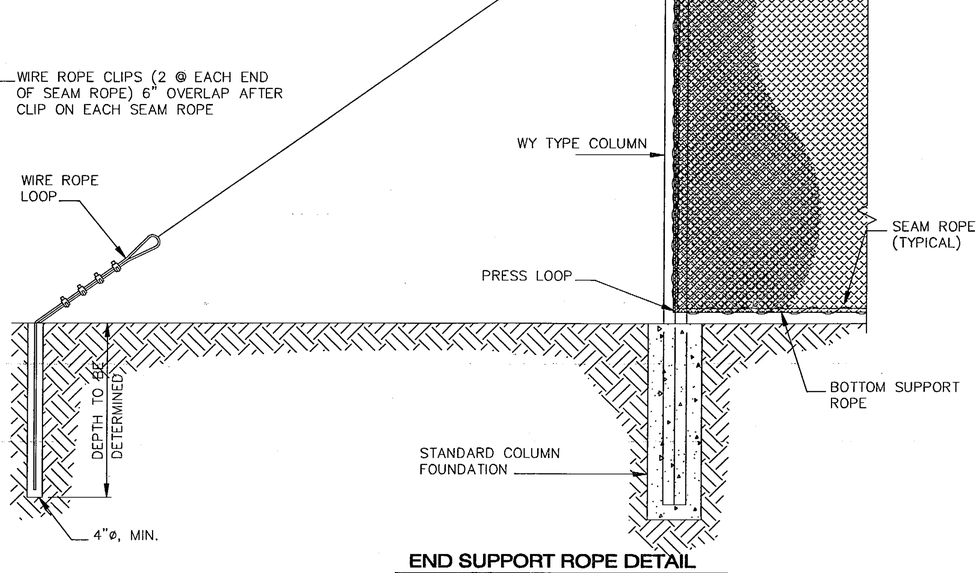
WIRE ROPE LOOP DETAIL



NOTE:
WHEN SEAMING NET PANELS, SEAM ROPE IS TO BE TIGHTENED AS MUCH AS POSSIBLE BY HAND TO TOP & BOTTOM SUPPORT ROPES.

SEAMING DETAIL

NOTE:
DIFFERENT TYPE OF FOUNDATION, OTHER THAN ROCK, MAY BE ENCOUNTERED.



END SUPPORT ROPE DETAIL

PATH: Q:\Ktn\71811A\Planset\S6-7_RockFence.dwg
Mon, 06/May/02 11:19AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: S6

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Temporary Rock Catchment Barrier

DESIGNED BY: C. HOWARD

STATE OF ALASKA — 49th — Tracy W. Moore PE — CE-4932 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

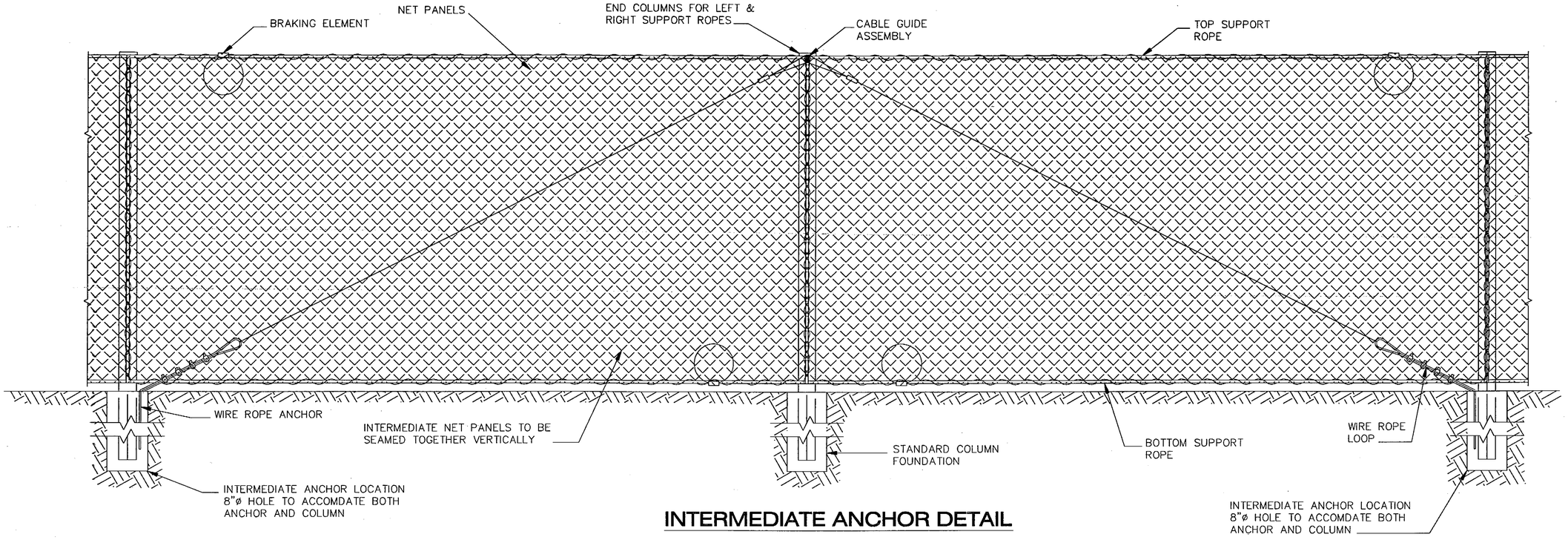
THIRD AVENUE EXTENSION PROJECT NO. 68490

Temporary Rock Catchment Barrier

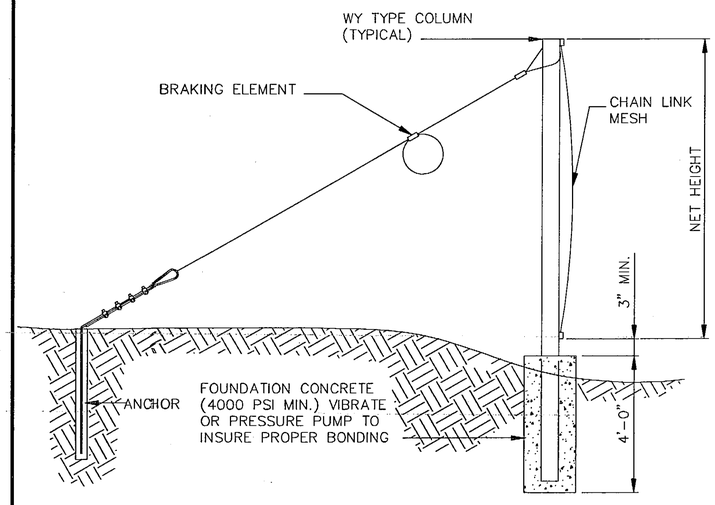
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
S6	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

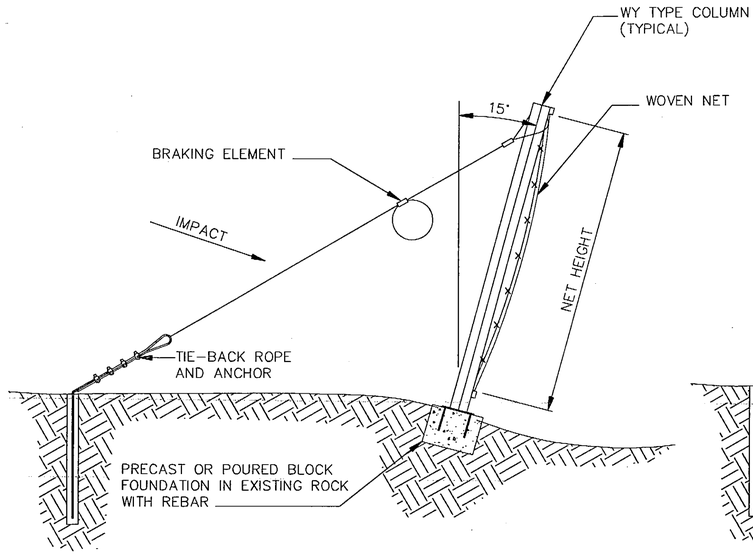
Proj. Eng _____ Date 10-31-06



INTERMEDIATE ANCHOR DETAIL



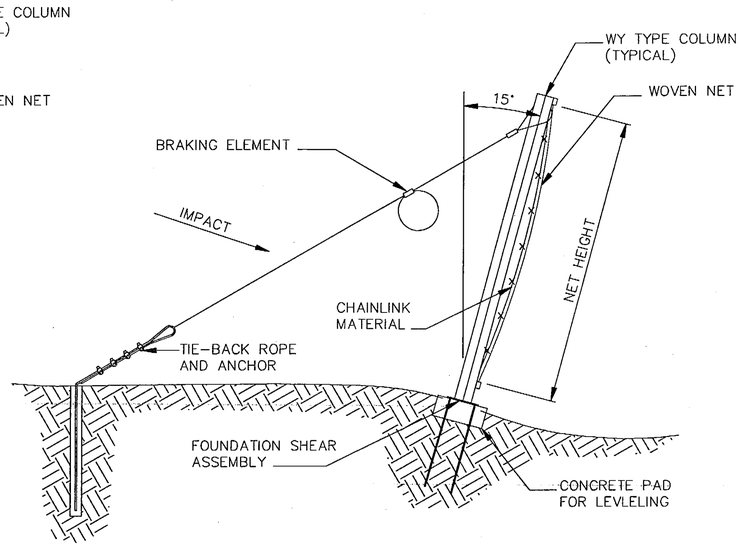
ALTERNATE FOUNDATION 1



ALTERNATE FOUNDATION 2

(ANGLED COLUMN W/BLOCK FOUNDATION)

FOR INFORMATION USE ONLY



ALTERNATE FOUNDATION 3

(ANGLED COLUMN W/ROCKBOLT FOUNDATION)

PATH: Q:\Ktn\71811A\Planset\S6-7_RockFence.dwg
Mon, 06/May/02 11:19AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: S7

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Temporary Rock Catchment Barrier

DESIGNED BY: C. HOWARD

STATE OF ALASKA — 49th — Tracy W. Moore — CE-4932 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Temporary Rock Catchment Barrier

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
S7	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10.31.06

STANDARD SIGNING SCHEDULE

SIGN No.	STATION	OFFSET LT.	OFFSET RT.	CODE No. (ASDS)	LEGEND	SIZE H	SIZE W	AREA S.F.	POST SIZE	FACING TRAFFIC	REMARKS
1	"0"21+82		30'	R1-1	STOP	30"	30"	6.25	2.5"	EB	
2	"0"21+82		30'	D3-1	3RD AVE	8"	24"	.67		NB/SB	MOUNT ABOVE STOP SIGN
3	"0"21+82		30'	D3-1	WASHINGTON ST	8"	36"	1.00		WB/EB	MOUNT ABOVE STOP SIGN
4	"0"22+30	30'		R1-1	STOP	30"	30"	6.25	2.5"	WB	
5	"0"22+30	30'		D3-1	3RD AVE	8"	24"	.67		NB/SB	MOUNT ABOVE STOP SIGN
6	"0"22+30	30'		D3-1	WASHINGTON ST	8"	36"	1.00		WB/EB	MOUNT ABOVE STOP SIGN
7	"0"23+25		27'	R1-1	STOP	30"	30"	6.25	2.5"	NB	
8	"A"11+70		17'	R1-1	STOP	30"	30"	6.25	2.5"	EB	
9	"A"11+55	27'		R1-1	STOP	30"	30"	6.25	2.5"	WB	
10	"0"24+12		25'	R2-1	SPEED LIMIT 35	36"	30"	7.50	2.5"	EB	
11	"0"25+80		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
12	"0"24+20	27'		R2-1	SPEED LIMIT 25	36"	30"	7.50		WB	MOUNT ON ELECTROLIER NO. 3
13	"0"23+60	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
14	"0"23+75		25'	D11-1	BIKE ROUTE	18"	24"	3.00	2.5"	EB	
15	"0"26+95	25'		R1-1	STOP	30"	30"	6.25	2.5"	SB	
16	"0"26+95	25'		R6-1(R)	ONE WAY	12"	36"	3.00		EB	MOUNT ABOVE STOP SIGN
17	"0"26+95	25'		R6-1(L)	ONE WAY	12"	36"	3.00		WB	MOUNT ABOVE STOP SIGN
18	"0"27+00		25'	R3-2	NO LEFT TURN	24"	24"	7.00	2.5"	EB	(INCLUDES 18"x24" LEGEND PLAQUE)
19	"0"27+90	27'		R3-1	NO RIGHT TURN	24"	24"	7.00	2.5"	WB	(INCLUDES 18"x24" LEGEND PLAQUE)
20	"0"31+00	21'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	MOUNT ON ELECTROLIER No. 7
21	"0"31+00		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
22	"0"27+60	21'		R7-101	NO PARKING 10:00 PM TO 6:00 AM	18"	12"	1.50	2.5"	SB	MOUNT ON ELECTROLIER No. 5
23	"0"28+62	21'		R7-101	NO PARKING 10:00 PM TO 6:00 AM	18"	12"	1.50	2.5"	SB	
24	"0"29+50	21'		R7-101	NO PARKING 10:00 PM TO 6:00 AM	18"	12"	1.50	2.5"	SB	
25	"0"29+73	21'		R6-1L	ONE WAY	12"	36"	3.00	2.5"	EB	
26	"0"29+73	21'		R6-1R	ONE WAY	12"	36"	3.00		WB	
27	"0"38+00		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
28	"0"37+80	21'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00		WB	MOUNT ON ELECTROLIER No. 11
29	"0"48+05		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
30	"0"48+00	21'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00		WB	MOUNT ON ELECTROLIER No. 17
31	"0"61+70		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
32	"0"61+60	21'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00		WB	MOUNT ON ELECTROLIER No. 25
33	"0"68+40	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	MOUNT ON ELECTROLIER No. 29
34	"0"70+50	25'		R2-1	SPEED LIMIT 35	36"	30"	7.50	2.5"	WB	
35	"0"70+10		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
36	"0"71+75		25'	R2-1	SPEED LIMIT 25	36"	30"	7.50		EB	
37	"0"71+45	30'		R1-1	STOP	30"	30"	6.25	2.5"	SB	
38	"0"72+20	25'		D11-1	BIKE ROUTE	18"	24"	3.00	2.5"	WB	
39	"0"74+25		30'	R1-1	STOP	30"	30"		2.5"	NB	EXISTING SIGNS INSTALL UNDER PREVIOUS PROJECT
40	"0"74+25		30'	D3-1	3RD AVE	8"	24"			NB/SB	EXISTING SIGNS INSTALL UNDER PREVIOUS PROJECT
41	"0"74+25		30'	D3-1	SCHOENBAR RD	8"	36"			EB/WB	EXISTING SIGNS INSTALL UNDER PREVIOUS PROJECT
42	"S"11+50		25'	W7-1	TRUCK SYMBOL	36"	36"		2.5"	WB	EXISTING SIGNS INSTALL UNDER PREVIOUS PROJECT
	"S"11+50		25'		HILL	18"	24"			WB	EXISTING SIGNS INSTALL UNDER PREVIOUS PROJECT
43	"0"76+50		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"		2.5"	EB	EXISTING SIGNS INSTALL UNDER PREVIOUS PROJECT
44	"0"77+50		25'	R2-1	SPEED LIMIT 25	36"	30"		2.5"	EB	EXISTING SIGNS INSTALL UNDER PREVIOUS PROJECT
45	"0"76+25	X		R1-1	STOP	30"	30"		2.5"	SB	EXISTING SIGNS INSTALL UNDER PREVIOUS PROJECT
46	"0"76+25	X		D3-1	3RD AVE	8"	24"			NB/SB	EXISTING SIGNS INSTALL UNDER PREVIOUS PROJECT
47	"0"76+25	X		D3-1	W FAIRY CHASM	8"	36"			EB/WB	EXISTING SIGNS INSTALL UNDER PREVIOUS PROJECT
48	*		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
49	*	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
50	*		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
51	*	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
52	*		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
53	*	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
54	*		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
55	*	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
56	*		25'	R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	EB	
57	*	25'		R8-1	NO PARKING ON PAVEMENT	30"	24"	5.00	2.5"	WB	
							TOTAL=	224.59			

* SIGNS SHALL BE SPACED EQUALLY AT LOCATIONS TO BE DETERMINED BY THE ENGINEER BETWEEN STATIONS "0" 80+50 AND STATIONS "0" 114+50.

GENERAL SIGNING NOTES

1. SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS.
2. SEE STD. DWG. S-30.01 FOR POST SLEEVE TYPE SOIL EMBEDMENT.
3. SALVAGED SIGNS AND REPLACED SIGN PANELS SHALL BE DELIVERED TO THE CITY OF KETCHIKAN AT 3915 TONGASS AVE.
4. WHERE SIGNS ARE TO BE LOCATED ON THE DOWNHILL SIDE OF THE STREET, IN AREAS THAT HAVE RETAINING WALLS AT THE BACK OF SIDEWALKS, THE SIGNS SHALL BE MOUNTED TO THE SIDE OF THE RETAINING WALL.
5. PT POST TYPE STANDS FOR PERFORATED STEEL TUBE WITH A POST SLEEVE FOR EMBEDMENT.
6. ALL SIGN POSTS SHALL BE TELESCOPING PERFORATED GALVANIZED SQUARE STEEL POSTS OR 6"x6" TREATED WOOD POSTS.
7. ALL NEW SIGNS SHALL BE UNFRAMED EXCEPT AS NOTED IN THE STANDARD SIGN SCHEDULE.
8. ALL D3-1 STREET SIGNS HAVE THE LEGEND ON BOTH SIDES.
9. SIGNS SHALL BE INSTALLED SO THAT THE BOTTOM OF THE SIGN PANEL IS 7 FEET ABOVE THE ROADWAY SURFACE.
10. FOR SIGN LOCATION PURPOSES 3RD AVE. IS ASSUMED TO GO EB/WB.
11. SIGNS 39-47 WERE INSTALLED UNDER THE PREVIOUS 3RD AVENUE PROJECT. THEY ARE INCLUDED FOR REFERENCE ONLY AND NO ADDITIONAL PAYMENT SHALL BE MADE.
12. SIGNS (BUT NOT THE POSTS) #1-38 WERE PURCHASED BY THE STATE AND ARE AVAILABLE FOR INSTALLATION ON THIS PROJECT. NO CHARGE WILL BE MADE FOR THESE SIGNS.

PATH: Q:\Ktn\71811A\Planset\T1-5_Tcps.dwg
Mon, 06/May/02 09:48AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SUM_T1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Traffic Summaries

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Eng _____ Date 10.31.06

DESIGNED BY: R. PURVES

STATE OF ALASKA 49th Ken L. Mattson CE-10049 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN

DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION PROJECT NO. 68490

Traffic Summaries

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T1	146

SUMMARY OF LOAD CENTER: A

Load Center Type 1

Location data:
Load center: "0" 22+24, 44' R
Power source: POWER POLE NEAR "0" 22+30, 60' R
Photoelectric control: INSTALL ON LOAD CENTER CABINET

Service voltage: 1 phase, 3 wire, 240/480 volts, 60 Hz.

Interrupting capacity of circuit breakers – series rated. 10,000 AIC
Provide meter socket? Yes Transformer? Yes Service Amps 125

Main Breaker A: 480 volt, 2 pole, 100 ampheres

Contactor: 600 volt, 12 pole, 30 ampheres

Load Panel A Summary

Circuit Number	Description	KVA Load	Breaker Amps	Breaker Poles
AA1	Photo Electric Control	0.10	15A	1
AA2	Electroliers 1 – 2	0.7	15A	2
AA3	Electroliers 3 – 17	5.00	20A	2
AA4	PTR Cabinet	0.00	20A	1
AA5	Spare	0.00	20A	2
AA6	Space	–	–	–
	Total Demand Load:	5.80		

SUMMARY OF LOAD CENTER: B

Load Center Type 1

Location data:
Load center: "0" 73+44, 26' R
Power source: POWER POLE NEAR "0" 74+93, 51' R
Photoelectric control: INSTALL ON LOAD CENTER CABINET

Service voltage: 1 phase, 3 wire, 240/480 volts, 60 Hz.
with grounded neutral

Interrupting capacity of circuit breakers – series rated. 10,000 AIC
Provide meter socket? Yes Transformer? Yes Service Amps 125

Main Breaker A: 480 volt, 2 pole, 100 ampheres

Contactor: 600 volt, 12 pole, 30 ampheres

Load Panel A Summary

Circuit Number	Description	KVA Load	Breaker Amps	Breaker Poles
AA1	Photo Electric Control	0.10	15A	1
AA2	Electroliers 32 and 34	0.70	15A	2
AA3	Electroliers 18 – 31	5.40	20A	2
AA4	Spare	0.00	20A	2
AA5	Spare	0.00	20A	2
AA6	Space	–	–	–
	Total Demand Load:	6.20		

LOAD CENTER NOTES

1. CONTRACTOR SHALL HAVE METERS INSTALLED, AND PAY ANY FEES REQUIRED BY THE LOCAL UTILITY. THE STATE WILL ACCEPT BILLING WHEN THE PROJECT IS ACCEPTED.
2. INSTALL STEP DOWN TRANSFORMER TO CONVERT 240/480V TO 120/240V IN BOTH LOAD CENTERS.

LOAD CENTER SUMMARY

NO.	STATION	OFFSET	TYPE	REMARKS
1	'0' 22+24	44' R	1	IN FRONT OF POWER POLE
2	'0' 73+44	26' R	1	IN FRONT OF POWER POLE

JUNCTION BOX SUMMARY

NO.	STATION	OFFSET	TYPE	REMARKS
JB#1	≈ '0' 29+~~00~~55	21' L	II	FOR PTR STATION
1	'0' 21+75	17' L	1A	
2	'0' 22+50	21' R	1A	
3	'0' 24+20	21' L	1A	
4	'0' 25+90	21' L	1A	
5	'0' 27+60	21'~~14~~' L	1A	
6	'0' 29+30	21'~~14~~' L	1A	
7	'0' 31+00	21' L	1A	
8	'0' 32+70	21' L	1A	
9	'0' 34+40	21' L	1A	
10	'0' 36+10	21' L	1A	
11	'0' 37+80	21' L	1A	
12	'0' 39+50	21' L	1A	
13	'0' 41+20	21' L	1A	
14	'0' 42+90	21' L	1A	
15	'0' 44+60	21' L	1A	
16	'0' 46+30	21' L	1A	
17	'0' 48+00	21' L	1A	
18	'0' 49+70	21' L	1A	
19	'0' 51+40	21' L	1A	
20	'0' 53+10	21' L	1A	
21	'0' 54+80	21' L	1A	
22	'0' 56+50	21' L	1A	
23	'0' 58+20	21' L	1A	
24	'0' 59+90	21' L	1A	
25	'0' 61+60	21' L	1A	
26	'0' 63+30	21' L	1A	
27	'0' 65+00	21' L	1A	
28	'0' 66+70	21' L	1A	
29	'0' 68+40	21' L	1A	
30	'0' 70+10	20' R	1A	
31	'0' 71+80	20' R	1A	
32	'0' 73+50	21' R	1A	
40	'0' 22+41	20' L	1A	
41	'0' 70+10	21' R	1A	

POLE SUMMARY

POLE NO.	STATION	OFFSET	MAST ARM LENGTH	SPECIAL FEATURES
1	'0' 21+75	27' R	15'	250 WATT, MC TYPE II
2	'0' 22+50	27' R	15'	250 WATT, MC TYPE II
3	'0' 24+20	27' L	15'	250 WATT, MC TYPE II
4	'0' 25+90	27' L	15'	250 WATT, MC TYPE II
5	'0' 27+60	21' L	10'	250 WATT, MC TYPE II
6	'0' 29+30	21' L	10'	250 WATT, MC TYPE II
7	'0' 31+00	27' L	15'	250 WATT, MC TYPE II
8	'0' 32+70	27' L	15'	250 WATT, MC TYPE II
9	'0' 34+40	27' L	15'	250 WATT, MC TYPE II
10	'0' 36+10	27' L	15'	250 WATT, MC TYPE II
11	'0' 37+80	27' L	15'	250 WATT, MC TYPE II
12	'0' 39+50	27' L	15'	250 WATT, MC TYPE II
13	'0' 41+20	27' L	15'	250 WATT, MC TYPE II
14	'0' 42+90	27' L	15'	250 WATT, MC TYPE II
15	'0' 44+60	27' L	15'	250 WATT, MC TYPE II
16	'0' 46+30	27' L	15'	250 WATT, MC TYPE III
17	'S' 48+00	27' L	15'	250 WATT, MC TYPE III
18	'0' 49+70	27' L	15'	250 WATT, MC TYPE II
19	'0' 51+40	27' L	15'	250 WATT, MC TYPE II
20	'0' 53+10	27' L	15'	250 WATT, MC TYPE II
21	'0' 54+80	27' L	15'	250 WATT, MC TYPE II
22	'0' 56+50	27' L	15'	250 WATT, MC TYPE II
23	'0' 58+20	27' L	15'	250 WATT, MC TYPE II
24	'0' 59+90	27' L	15'	250 WATT, MC TYPE II
25	'0' 61+60	27' L	15'	250 WATT, MC TYPE II
26	'0' 63+30	27' L	15'	250 WATT, MC TYPE II
27	'0' 65+00	27' L	15'	250 WATT, MC TYPE II
28	'0' 66+70	27' L	15'	250 WATT, MC TYPE II
29	'0' 68+40	27' L	15'	250 WATT, MC TYPE II
30	'0' 70+10	27' R	15'	250 WATT, MC TYPE II
31	'0' 71+80	27' R	15'	250 WATT, MC TYPE II
32	'0' 73+20	27' L	15'	250 WATT, MC TYPE II

PATH:
Q:\Ktn\71811A\Planset\T1-5_Tcps.dwg
Mon, 06/May/02 09:48AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SUM_T2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Traffic Summaries

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Eng _____ Date 10-31-06

DESIGNED BY: R. PURVES

STATE OF ALASKA
49th
Ken L. Mattson
CE-10049
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

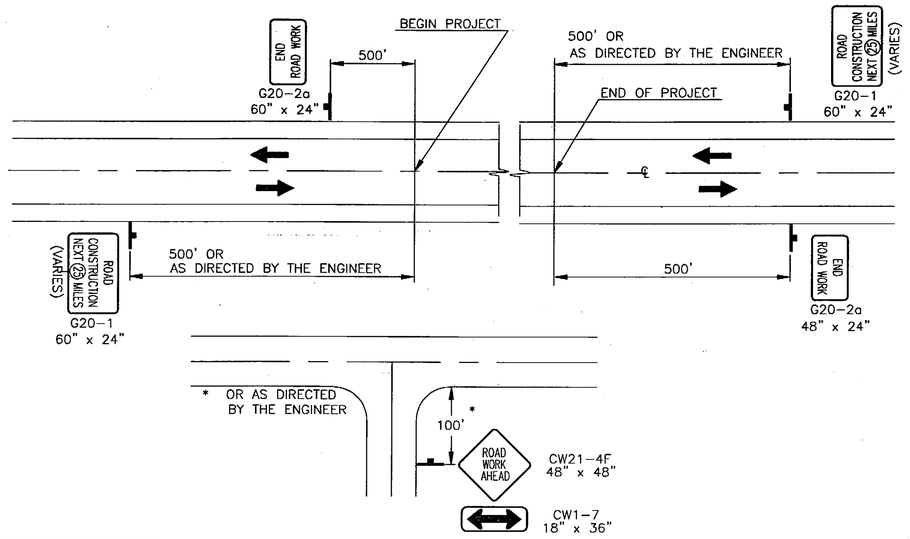
Traffic Summaries

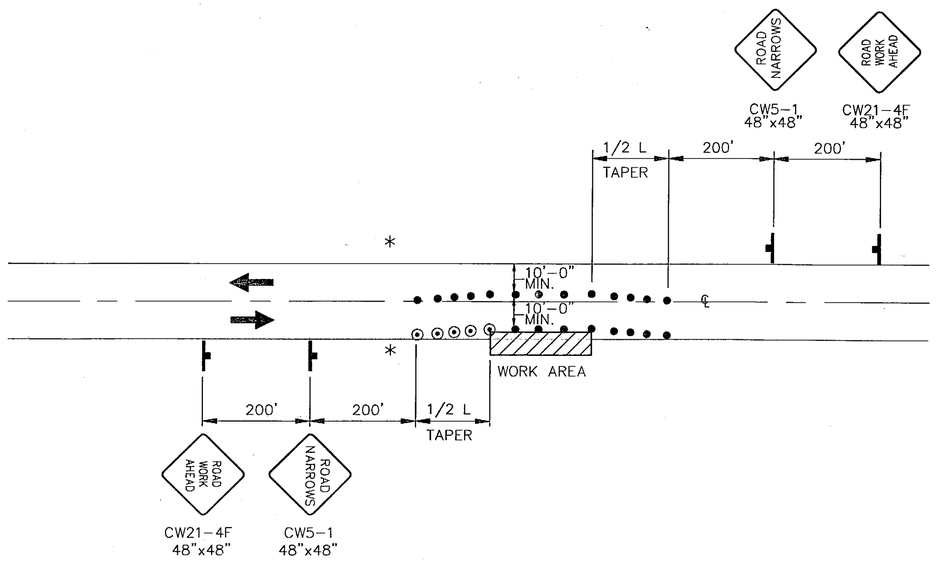
PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T2	146

TRAFFIC CONTROL NOTES

1. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
2. TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
3. TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643-3.04 OF THE SPECIFICATIONS.
4. THE CONTRACTOR SHALL RESTORE ACCESS TO BUSINESSES AND HOMES AT THE END OF EVERY WORK DAY. ACCESS TO BUSINESSES AND HOMES SHALL NOT BE SHUT OFF FOR MORE THAN A 24-HOUR PERIOD.
5. THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, GRINDING, PAVING, AND CHANGES IN THE LANE CONFIGURATIONS.
6. A SINGLE FLAGGER MAY BE APPROVED BY THE ENGINEER IF THE ENTIRE WORK AREA IS VISIBLE FROM THE FLAGGER STATION.
7. A FENCED PEDESTRIAN WALKWAY AND VEIWING AREA SHALL BE LOCATED FROM STA. "O" 45+00 TO "O" 53+00 FOR VISITORS TO VIEW THE SIGHT FROM ABOVE THE WORK AREA. THIS AREA WILL BE LIMITED TO ESCORTED TOURS BY CONTRACTOR OR STATE PERSONNEL.
8. THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC TO AUSTIN STREET AT ALL TIMES.
9. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED ROAD CLOSURES ON SECOND AVENUE AND INFORM THE WHITECLIFF SCHOOL PRIOR TO ALL ROCK BLASTS.
10. ALL TRAFFIC DETOURS SHALL BE APPROVED BY THE ENGINEERS.





ROADWAY ENCROACHMENT

NOTE: IF ONLY ONE LANE IS AFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE SHALL BE DELETED.

LEGEND

- ..... SIGN
- ..... CONE
- ..... DRUM
- ..... TYPE III BARRICADE
- ..... FLAGGING STATION

* NO PARKING WITHIN 200' OF CONES

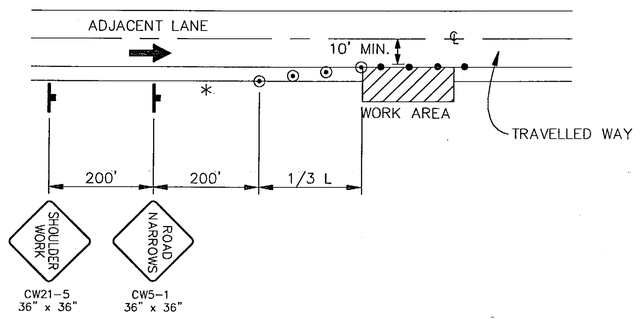
FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS $L = \frac{WxS^2}{60}$

45 MPH OR GREATER $L = WxS$

WHERE W= WIDTH OF OFFSET
S= POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

TCP SETUP TABLE			
SPEED (MPH)	BUFFER LENGTH (FT)	CONE/DRUM SPACING (FT)	TAPER RATE (T)
20	35	20	4:1
25	55	25	6:1
30	85	30	8:1
35	120	35	12:1
40	170	40	17:1
45	220	45	22:1
50	280	50	28:1
55	335	55	34:1



SHOULDER WORK

PATH: Q:\Ktn\71811A\Planset\T1-5_Tcps.dwg
Mon, 06/May/02 09:48AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: TCP1-T3

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Traffic Control Plan

DESIGNED BY: R. PURVES

STATE OF ALASKA 49th
Ken L Mottson CE-10049
PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

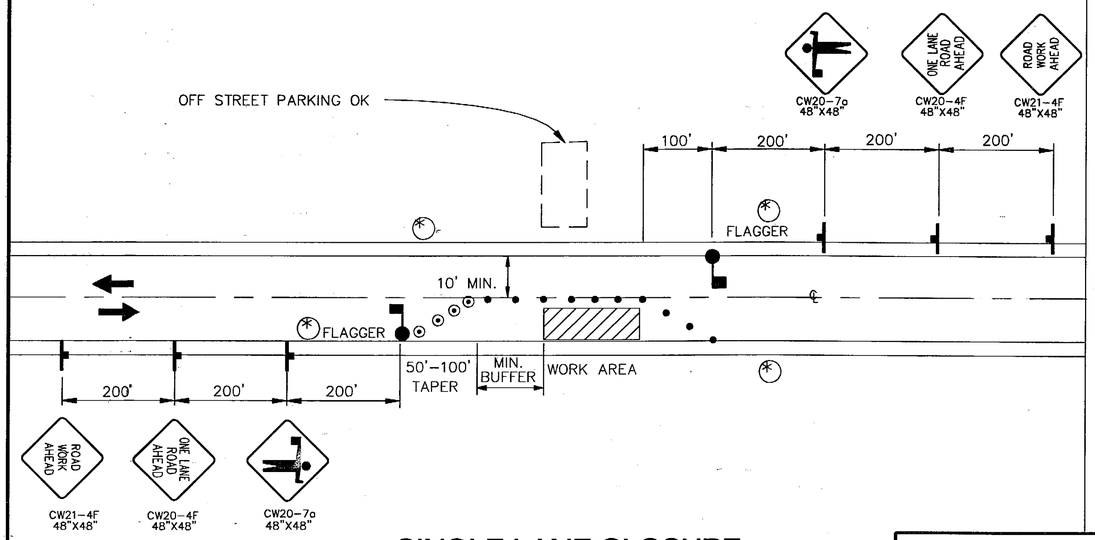
THIRD AVENUE EXTENSION PROJECT NO. 68490

Traffic Control Plan

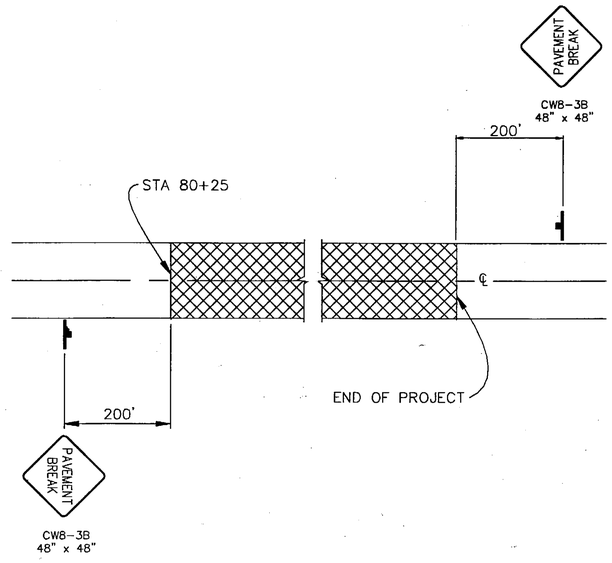
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T3	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06



SINGLE LANE CLOSURE
TWO LANE ROAD



SIGNING FOR UNPAVED AREA

LEGEND

- ▪ ..... SIGN
- ● ..... CONE
- ⊙ ..... DRUM
- ..... TYPE III BARRICADE
- ..... FLAGGING STATION
- * NO PARKING WITHIN 200' OF CONES

FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS $L = \frac{WxS^2}{60}$

45 MPH OR GREATER $L = WxS$

WHERE W= WIDTH OF OFFSET
S= POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

TCP SETUP TABLE

SPEED (MPH)	BUFFER LENGTH (FT)	CONE/DRUM SPACING (FT)	TAPER RATE (T)
20	35	20	4:1
25	55	25	6:1
30	85	30	8:1
35	120	35	12:1
40	170	40	17:1
45	220	45	22:1
50	280	50	28:1
55	335	55	34:1

PATH:
Q:\Ktn\71811A\Planset\T1-5_Tcps.dwg
Mon, 06/May/02 09:48AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: TCP2-T4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Traffic Control Plan

DESIGNED BY: M. LUKSHIN

STATE OF ALASKA
49th
Ken L. Mattson
CE-10049
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: K. MATTSON
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Traffic Control Plan

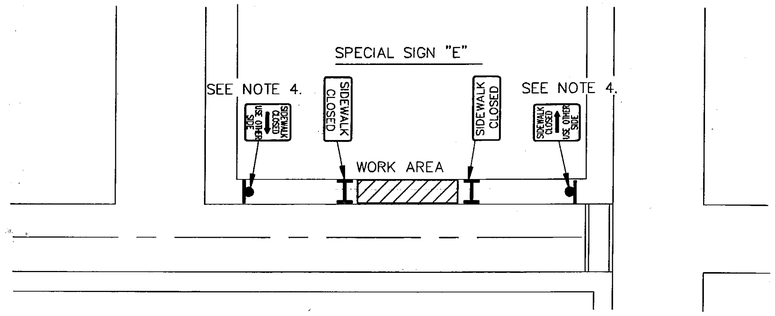
PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002

SHEET NUMBER	TOTAL SHEETS
T4	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

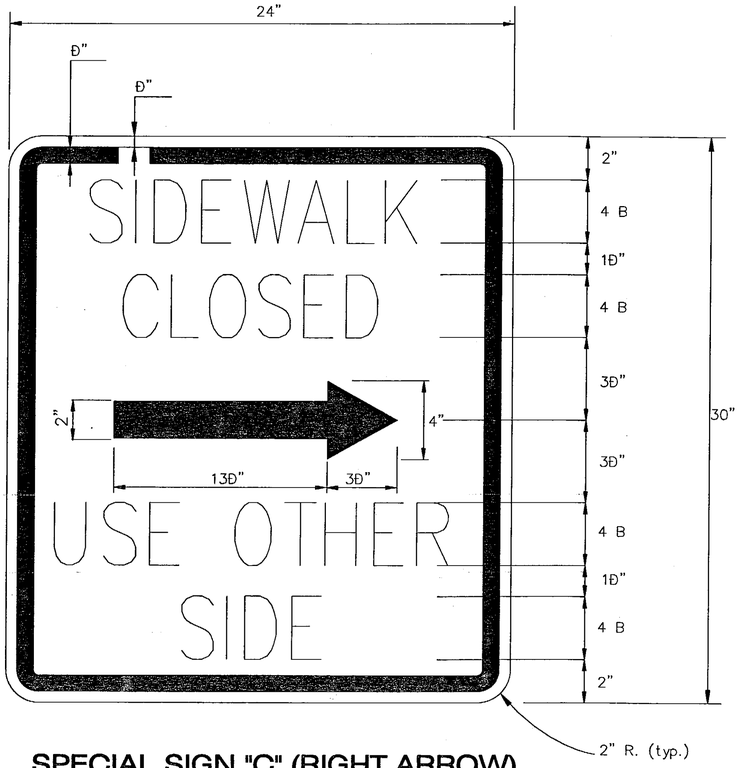
Proj. Eng _____ Date 10.31.06



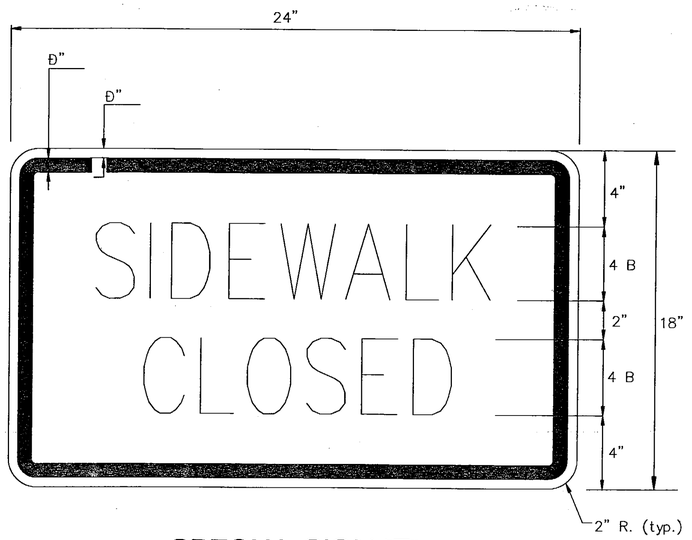
EXISTING SIDEWALK RECONSTRUCTION

SIGN NOTES:

1. SIGNS SHALL HAVE WHITE BACKGROUND WITH BLACK LEGEND. LETTERING SHALL BE AS SHOWN ON THE PLAN.
2. SPECIAL SIGN "C" IS SHOWN. SPECIAL SIGN "D" SHALL HAVE THE ARROW POINTING IN THE OPPOSITE DIRECTION.
3. SIGNS SHALL CONFORM TO THE ALASKA SIGN DESIGN SPECIFICATIONS (ASDS). LETTERING SHALL BE 4 INCHES HIGH AND SERIES B.
4. WHERE IT IS IMPRACTICAL TO WALK AROUND THE CLOSED PORTION OF THE SIDEWALK, SPECIAL SIGNS "C" OR "D" SHALL BE SET UP AT THE NEAREST EXISTING CROSSWALK.



SPECIAL SIGN "C" (RIGHT ARROW)
SPECIAL SIGN "D" (LEFT ARROW)



SPECIAL SIGN "E"

PATH: Q:\Ktn\71811A\Planset\T1-5_Tcps.dwg
Mon, 06/May/02 09:48AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: TCP3-T5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Traffic Control Plan

DESIGNED BY: R. PURVES

STATE OF ALASKA 49th
Ken L. Mattson
CE-10049
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

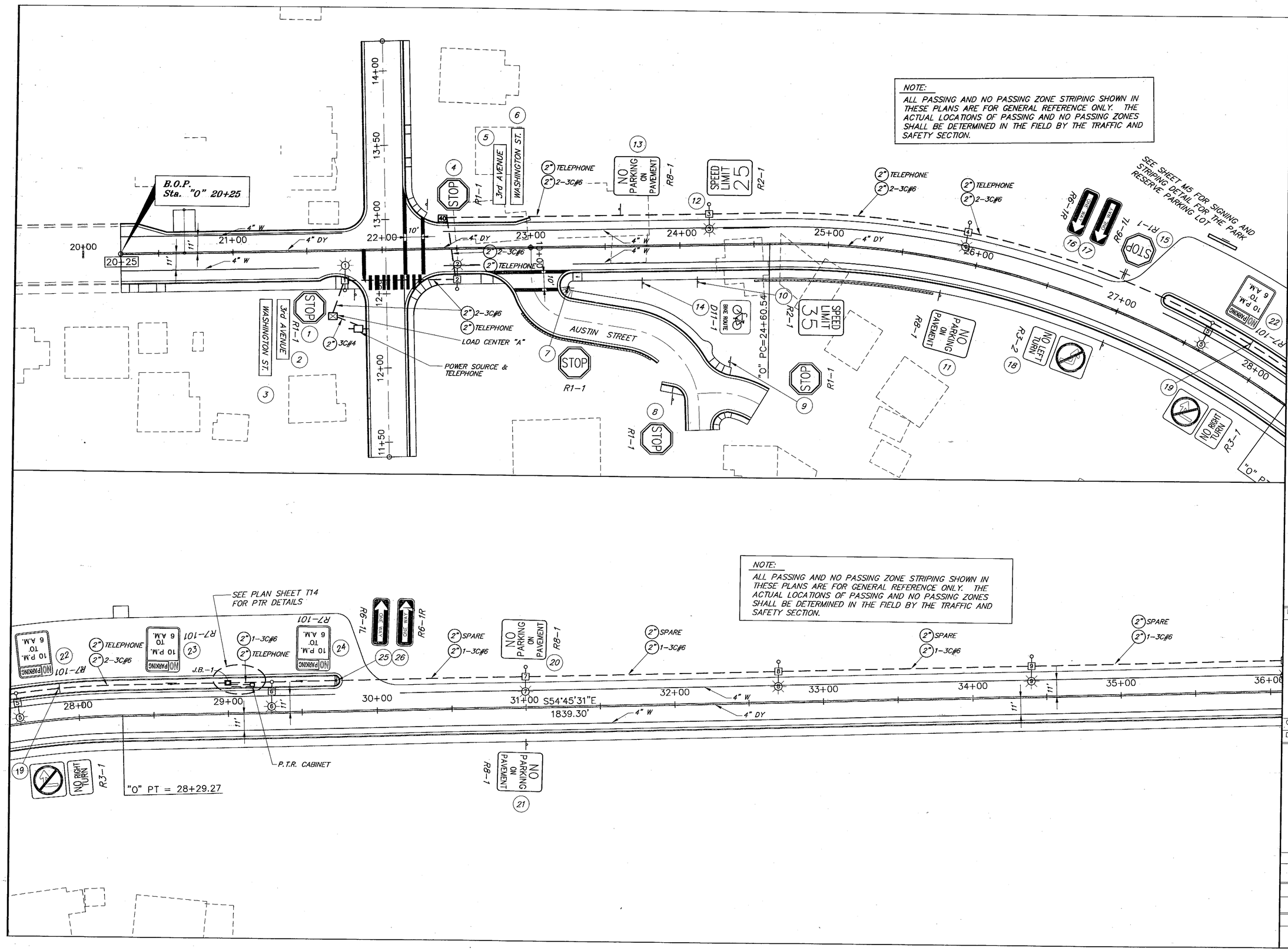
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Traffic Control Plan

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T5	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10-4-06



NOTE:
ALL PASSING AND NO PASSING ZONE STRIPING SHOWN IN THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THE ACTUAL LOCATIONS OF PASSING AND NO PASSING ZONES SHALL BE DETERMINED IN THE FIELD BY THE TRAFFIC AND SAFETY SECTION.

NOTE:
ALL PASSING AND NO PASSING ZONE STRIPING SHOWN IN THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THE ACTUAL LOCATIONS OF PASSING AND NO PASSING ZONES SHALL BE DETERMINED IN THE FIELD BY THE TRAFFIC AND SAFETY SECTION.

PATH:
Q:\Ktn\71811A\Planset\T4-12_SignStriping.dwg
Tue, 07/May/02 10:50AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Lighting, Signing and Striping

DESIGNED BY: R. PURVES

STATE OF ALASKA
49th
Ken L. Mattson
CE-10049
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

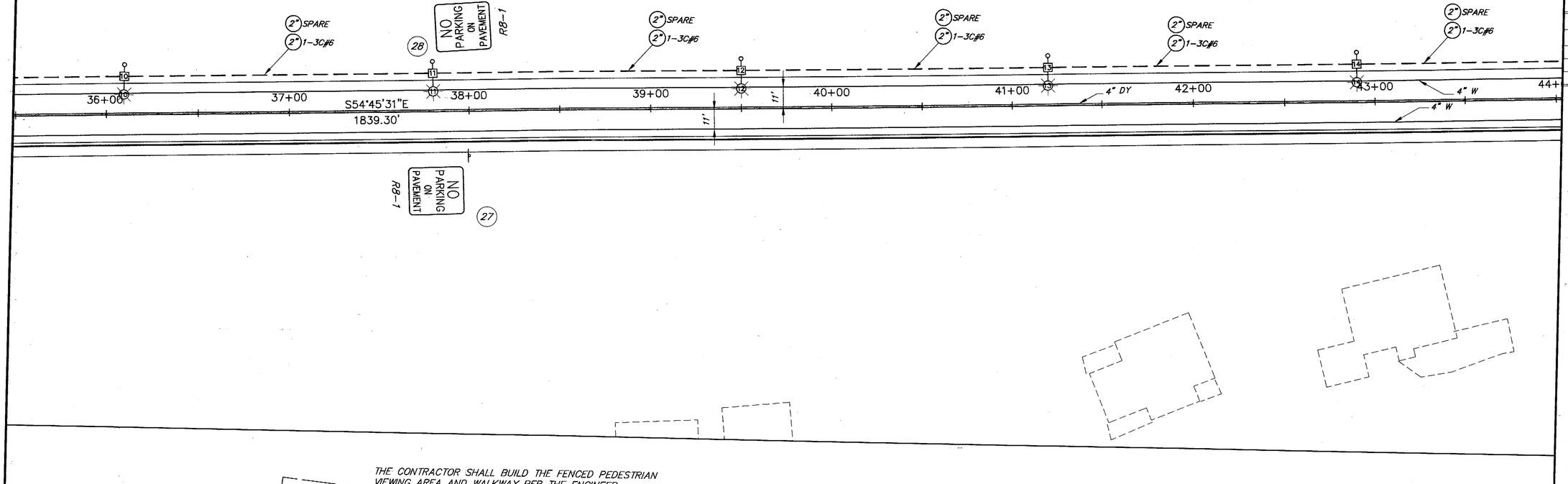
Lighting, Signing and Striping

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T6	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06

NOTE:
ALL PASSING AND NO PASSING ZONE STRIPING SHOWN IN THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THE ACTUAL LOCATIONS OF PASSING AND NO PASSING ZONES SHALL BE DETERMINED IN THE FIELD BY THE TRAFFIC AND SAFETY SECTION.



NOTE:
ALL PASSING AND NO PASSING ZONE STRIPING SHOWN IN THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THE ACTUAL LOCATIONS OF PASSING AND NO PASSING ZONES SHALL BE DETERMINED IN THE FIELD BY THE TRAFFIC AND SAFETY SECTION.

PATH:
Q:\Ktn\71811A\Plonset\T4-12_SignStriping.dwg
Tue, 07/May/02 10:51AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Lighting, Signing and Striping

DESIGNED BY: R. PURVES

STATE OF ALASKA
49th
Ken L. Mattson
CE-10049
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

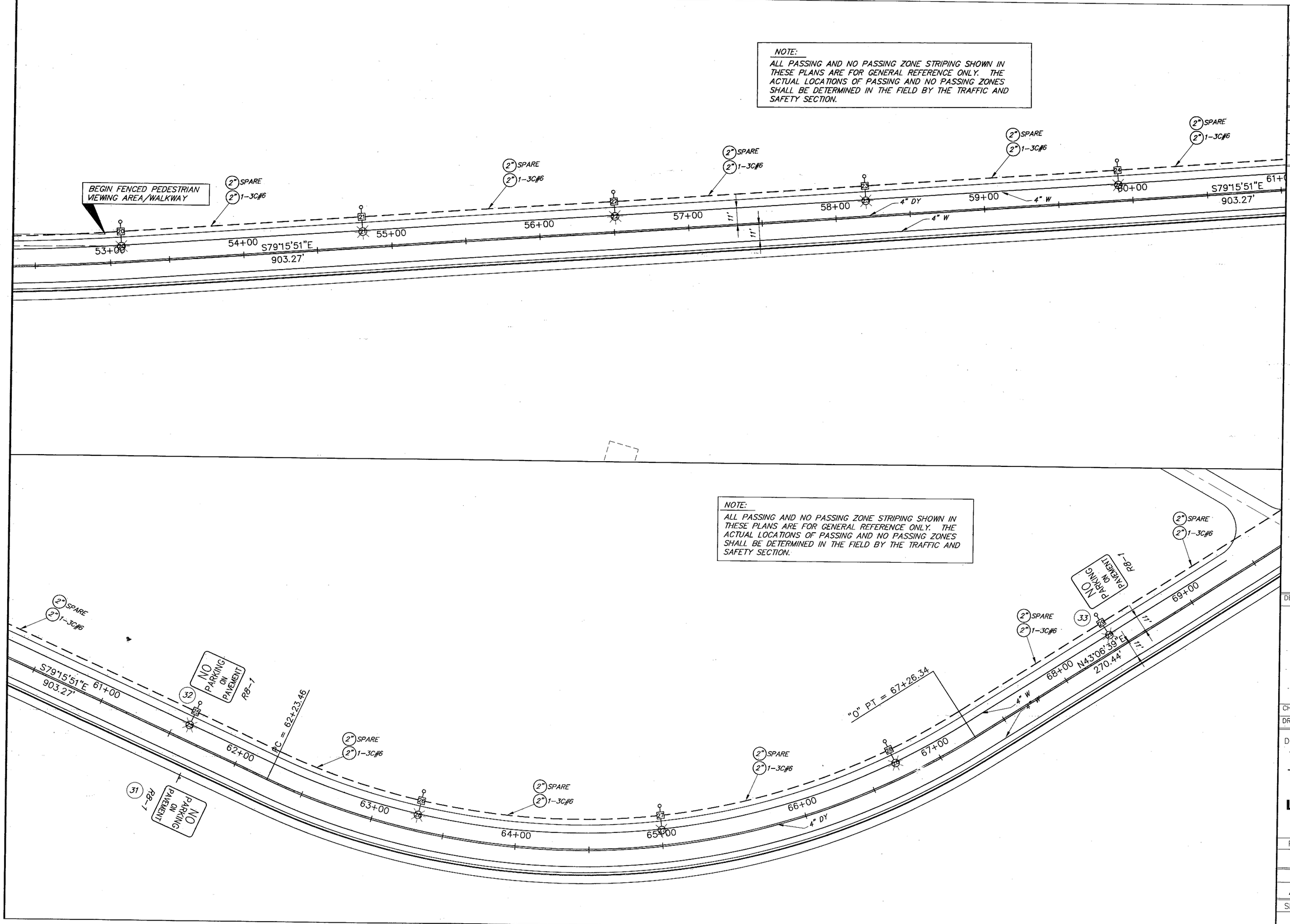
Lighting, Signing and Striping

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T7	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng KS Date 10.31.06



PATH:
Q:\Ktn\71811A\Planset\T4-12_SignStriping.dwg
Tue, 07/May/02 10:51AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Lighting, Signing and Striping

DESIGNED BY: R. PURVES

STATE OF ALASKA
49th
Ken L. Mottson
CE-10049
PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Lighting, Signing and Striping

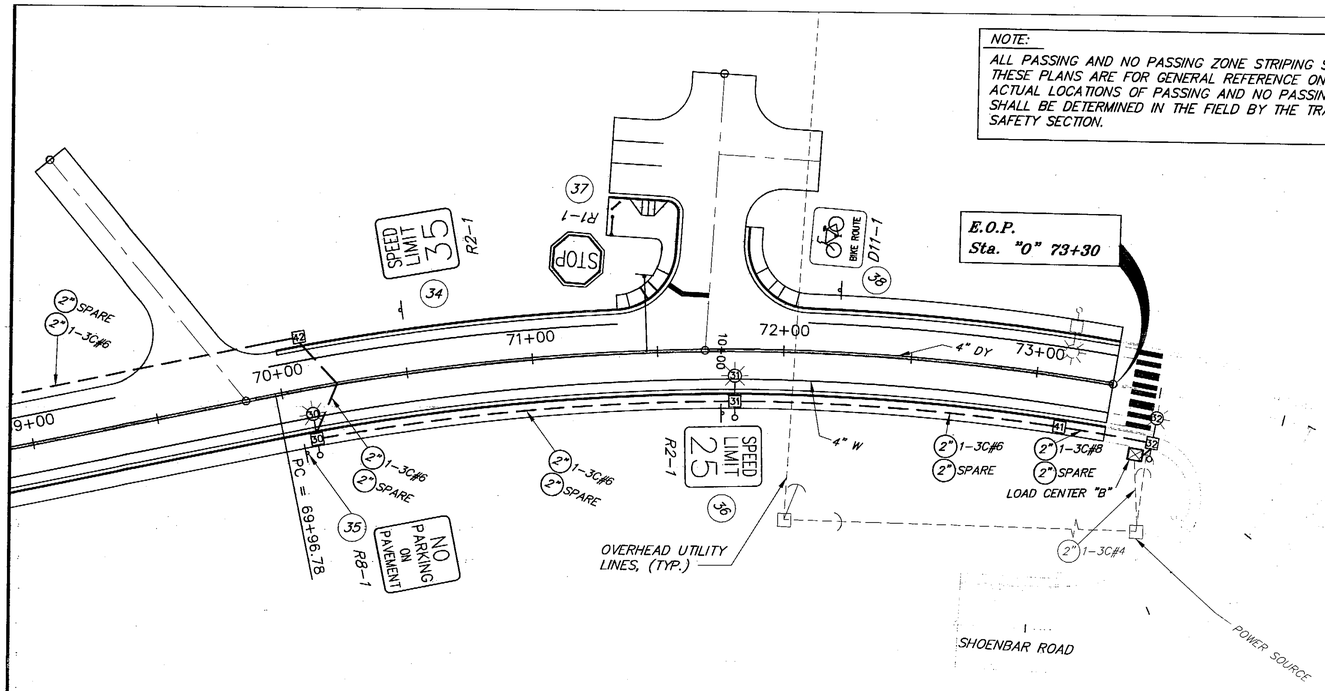
PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T8	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06

NOTE:
ALL PASSING AND NO PASSING ZONE STRIPING SHOWN IN THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THE ACTUAL LOCATIONS OF PASSING AND NO PASSING ZONES SHALL BE DETERMINED IN THE FIELD BY THE TRAFFIC AND SAFETY SECTION.



NOTE: OVERHEAD ELECTRIC LINES.

PATH:
Q:\Ktn\71811A\Planset\T4-12_SignStriping.dwg
Tue, 07/May/02 10:51AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Lighting, Signing and Striping

DESIGNED BY: R. PURVES

STATE OF ALASKA
49th
Ken L. Mattson
CE-10049
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN

DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Lighting, Signing and Striping

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

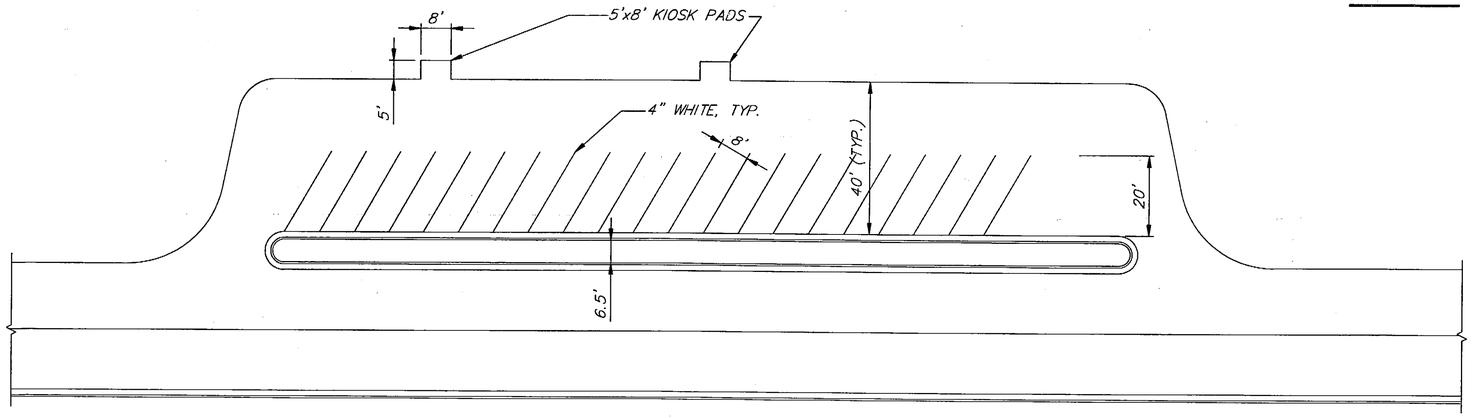
STATE	YEAR
ALASKA	2002

SHEET NUMBER	TOTAL SHEETS
T9	146

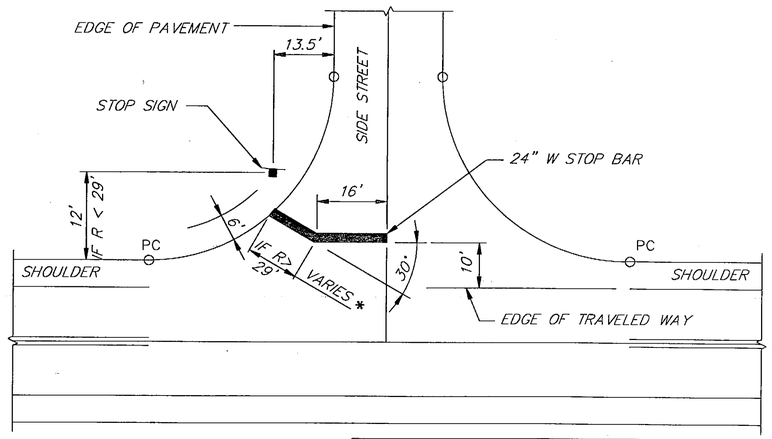
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng KLS Date 10.31.06

NOTE: STRIPPING FOR PARKING LOT SHALL BE PAINTED MARKINGS.



PLAN – PARKING LAYOUT



* OMIT ANGLE OF IS LESS THAN 8'

STOP BAR AND STOP SIGN INSTALLATION DETAIL

(WITHOUT PATHWAY)

PATH:
Q:\Ktn\71811A\Planset\T4-12_SignStriping.dwg
Mon, 06/May/02 09:52AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Signing & Striping
City Park Reserve - Parking Lot

DESIGNED BY: R. PURVES

STATE OF ALASKA
49th
Ken L Mattson
CE-10049
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

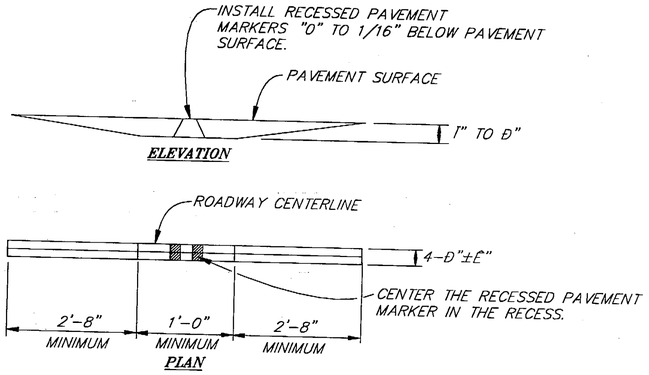
Signing & Striping
City Park Reserve - Parking Lot

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

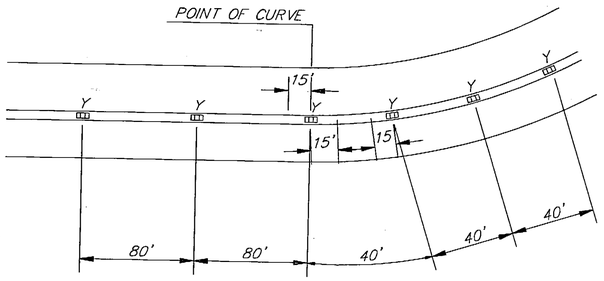
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T10	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

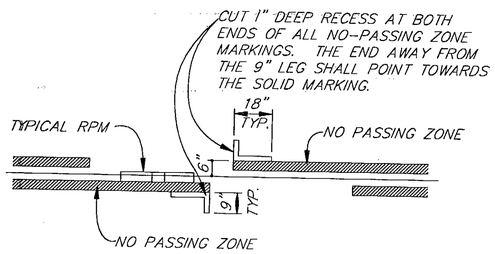
Proj. Eng _____ Date 10-31-06



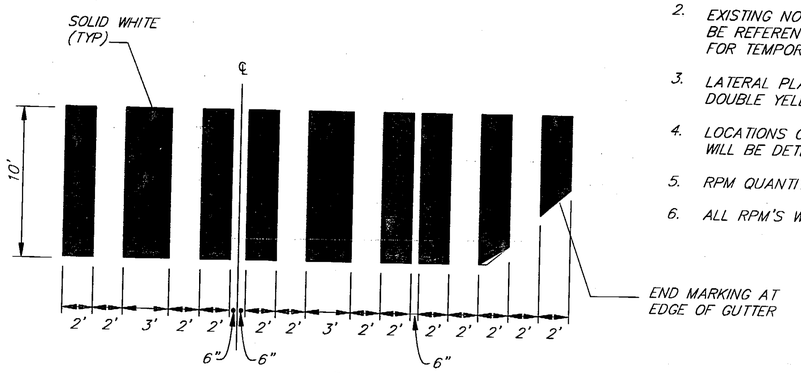
RECESSED PAVEMENT MARKER DETAIL



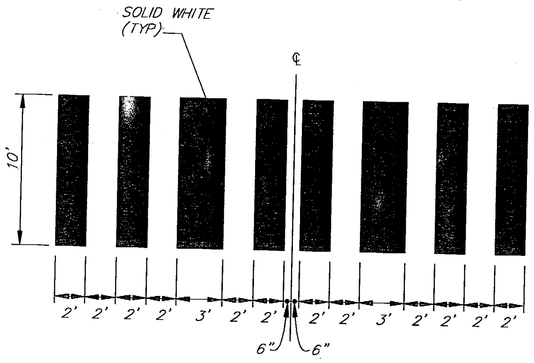
TWO LANE, TWO WAY DETAIL RECESSED PAVEMENT MARKER



NO-PASSING GROOVES



CROSSWALK MARKING SOUTH WASHINGTON STREET



CROSSWALK MARKING NEAR SHOENBAR ROAD

STRIPING AND RPM NOTES

1. STRIPED LANE WIDTHS SHALL BE 11'. WIDTH SHALL TAPER IN TO MATCH EXISTING AT B.O.P. AND E.O.P.
2. EXISTING NO-PASSING GROOVES AT ENDS OF NO-PASSING ZONES SHALL BE REFERENCED BEFORE CONSTRUCTION BEGINS BY THE CONTRACTOR FOR TEMPORARY AND PERMANENT MARKING PLACEMENT.
3. LATERAL PLACEMENT OF RECESSED PAVEMENT MARKERS SHALL BE BETWEEN DOUBLE YELLOW STRIPES ON CENTERLINE.
4. LOCATIONS OF MARKERS IN SITUATIONS WITH UNUSUAL GEOMETRICS WILL BE DETERMINED BY THE PROJECT ENGINEER.
5. RPM QUANTITIES ARE APPROXIMATE ONLY AND MAY VARY.
6. ALL RPM'S WILL BE TWOSIDED, YELLOW

R.P.M. SUMMARY

STATION TO STATION		40' SEGMENTS	80' SEGMENTS
'0' 22+28	'0' 24+60.54 PC		4
'0' 24+60.54 PC	'0' 28+28.59 PT	9	
'0' 28+28.59 PT	'0' 35+29.37 PC		9
'0' 35+29.37 PC	'0' 38+75.52 PT	9	
'0' 38+75.52 PT	'0' 40+40.45 PC		2
'0' 40+40.45 PC	'0' 42+93.59 PT	6	
'0' 42+93.59 PT	'0' 47+52.33 PC		6
'0' 47+52.33 PC	'0' 52+48.49 PT	12	
'0' 52+48.49 PT	'0' 62+23.46 PC		12
'0' 62+23.46 PC	'0' 67+26.33 PT	13	
'0' 67+26.33 PT	'0' 69+96.77 PC		3
'0' 69+96.77 PC	'0' 77+92.64 PT	20	
'0' 77+92.67 PT	'0' 80+20 EOP	3	
	TOTAL (EACH)	108	

PATH: Q:\Ktn\71811A\Planset\T4-12_SignStriping.dwg
Mon, 06/May/02 09:52AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Signing and Striping Details

DESIGNED BY: R. PURVES

STATE OF ALASKA 49th Ken L. Mattson CE-10049 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

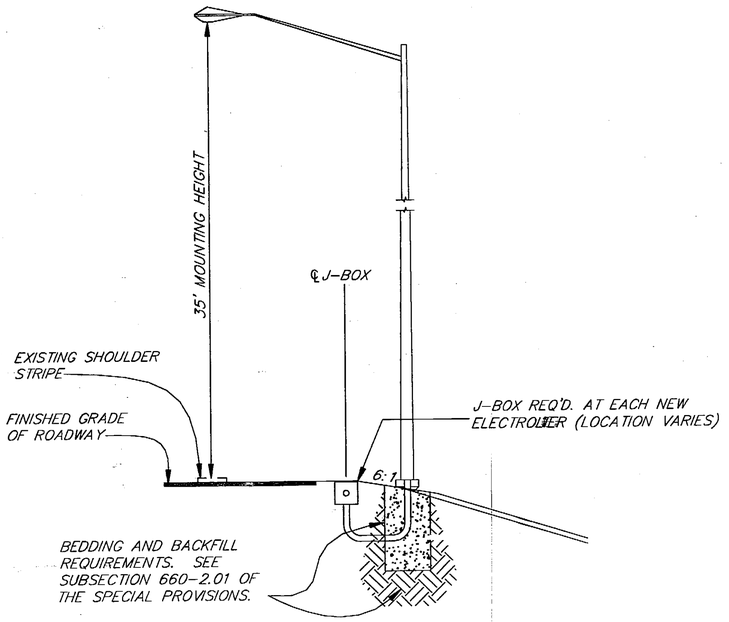
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Signing and Striping Details

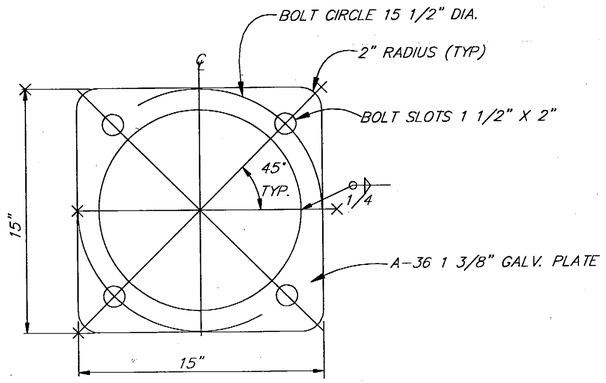
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T11	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. _____ Date 10-4-06



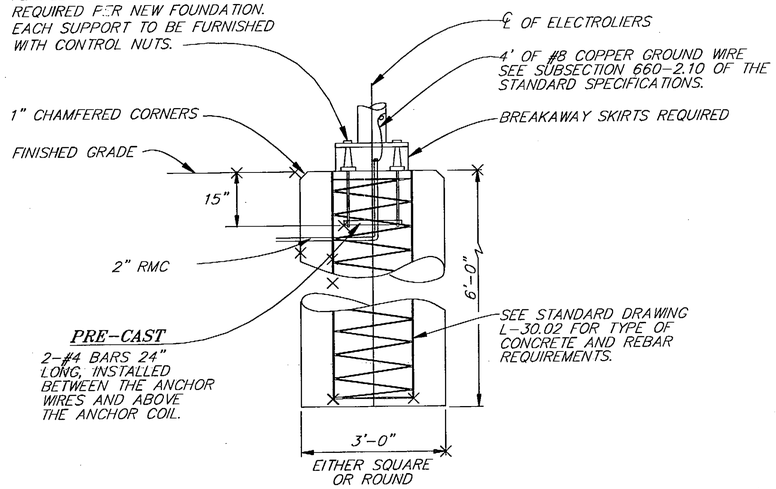
TYPICAL SECTION FOR ELECTROLIER



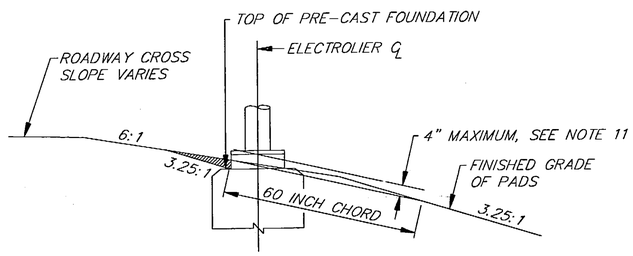
ANCHOR BASE DETAIL

ILLUMINATION GENERAL NOTES

1. ALL WIRING SHALL BE ENCASED IN 2" DIA. RIGID METAL CONDUIT.
2. EACH ELECTROLIER SHALL HAVE A J-BOX INSTALLED ADJACENT TO THE FOUNDATION AS SHOWN IN THE POLE AND J-BOX WIRING DETAIL.
3. ALL JUNCTION BOXES SHALL BE TYPE IA, EXCEPT AT LOAD CENTERS, SEE STANDARD DRAWING L-23.01.
4. A BARE STRANDED GROUND CONDUCTOR SHALL BE INSTALLED THROUGH ALL CONDUITS. THE GROUND CONDUCTOR SHALL BE ATTACHED TO ALL CONDUIT END BUSHINGS AND POLES.
5. NEW ELECTROLIER FOUNDATIONS MAY BE PRE-CAST. PRE-CAST FOUNDATIONS SHALL BE TRANSPORTED USING A DEVICE THAT SPREADS THE LOAD EVENLY BETWEEN THE ANCHOR BOLTS.
6. INSTALL THE PHOTOELECTRIC CELL ON TOP OF THE NEAREST ELECTROLIER POLE.
7. ILLUMINATION CIRCUIT WIRES SHALL BE NO. 6 AWG. 3-CONDUCTOR CABLE AS SPECIFIED IN STANDARD SPECIFICATION 660-2.08.
8. LUMINAIRES SHALL BE 480 VOLT, 250 WATT, HIGH PRESSURE SODIUM, MEDIUM DISTRIBUTION, CUT-OFF, IES TYPE III AND SHALL HAVE MAGNETIC REGULATOR BALLASTS AND HPS LAMPS WITH A 24,000 HOUR RATED LIFE.
9. INSTALL ONE WHITE FLEXIBLE DELINEATOR POST AT EACH J-BOX TO MARK IT'S LOCATION. DELINEATOR POSTS SHALL BE OF 3.75" WIDE COMPOSITE MATERIAL (CARSONITE ROADMARKER OR APPROVED EQUAL) AND SHALL BE EMBEDDED TO STAND 48" ABOVE GROUND LEVEL.
10. INSTALL ONE SPARE TWO INCH RIGID METAL CONDUITS FROM THE LOAD CENTER TO THE FIRST JUNCTION BOX.
11. NON-BREAKAWAY PORTIONS OF FOUNDATIONS SHALL NOT PROTRUDE MORE THAN FOUR INCHES ABOVE ANY 60 INCH CHORD STARTING AND ENDING ON THE FINISHED GRADE OF THE ELECTROLIER PADS.
12. LUMINAIRE MASTARMS SHALL BE 15' LONG UNLESS NOTED ELSEWHERE.
13. THE CONTRACTOR SHOULD ANTICIPATE THAT MOST OF THE ELECTROLIER BASES WILL NEED TO BE INSTALLED IN ROCK OR LARGE SHOT ROCK FILL. BLASTING MAY BE REQUIRED. ALL DRILLING AND BLASTING COSTS SHALL BE INCIDENTAL TO THE HIGHWAY LIGHTING SYSTEM COMPLETE PAY ITEM.



FOUNDATION WITH BREAKAWAY COUPLINGS



FOUNDATION INSTALLATION DETAIL

INDICATES EMBANKMENT MATERIAL TO BE REMOVED FROM AROUND BREAKAWAY SKIRTS

PATH: Q:\Ktn\71811A\Planset\T4-12_SignStriping.dwg
Mon, 06/May/02 09:52AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Illumination Details

DESIGNED BY: R. PURVES

STATE OF ALASKA — 49th — Ken L. Mattson — CE-10049 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN

DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISON

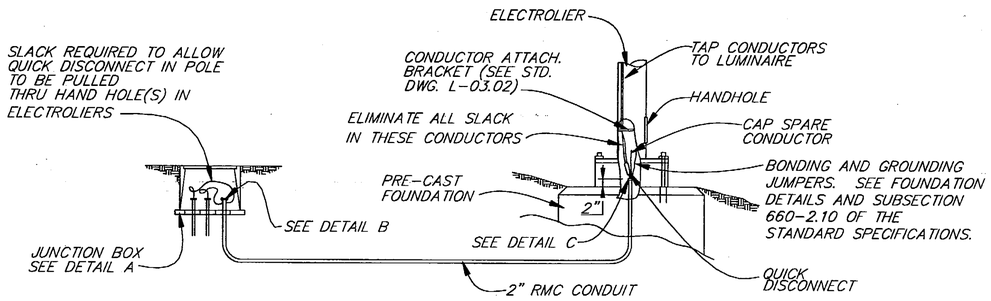
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Illumination Details

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T12	146

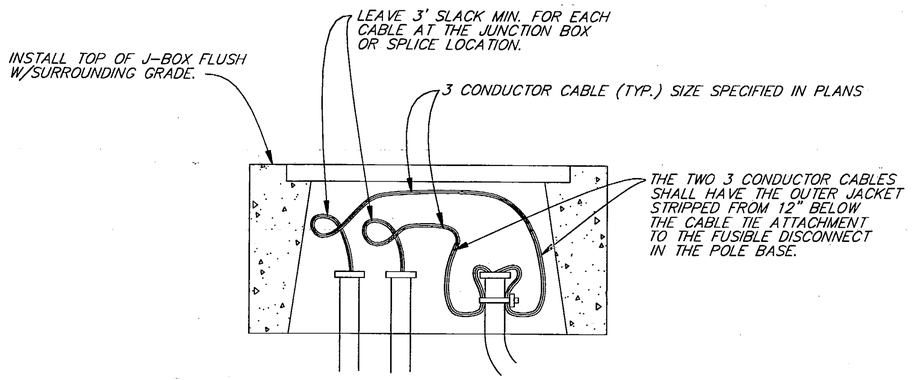
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06



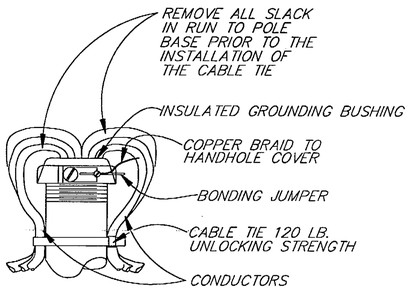
LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS

(BREAKAWAY COUPLINGS)



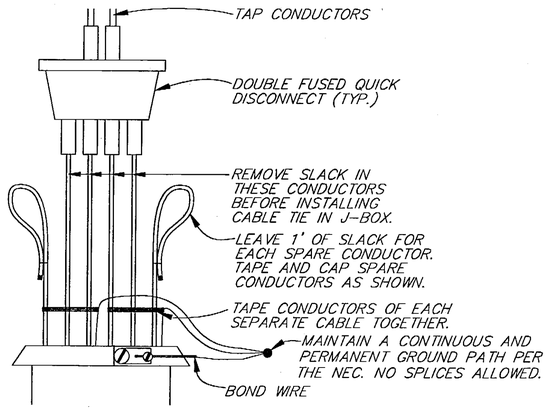
DETAIL A

NOTE:
INSTALL A 3/4"x10' COPPER CLAD STEEL GROUND ROD IN EACH J-BOX AND CONNECT TO ALL GROUNDING CONDUCTORS. USE A SPLIT BOLT TO CLAMP ALL GROUNDING CONDUCTORS TOGETHER.



DETAIL B

(IN J-BOX)



DETAIL C

(IN POLE BASE)

PATH:
Q:\Ktn\71811A\Planset\T4-12_SignStriping.dwg
Mon, 06/May/02 09:52AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Illumination Details

DESIGNED BY: R. PURVES

STATE OF ALASKA
49th
Ken L. Mattson
CE-10049
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

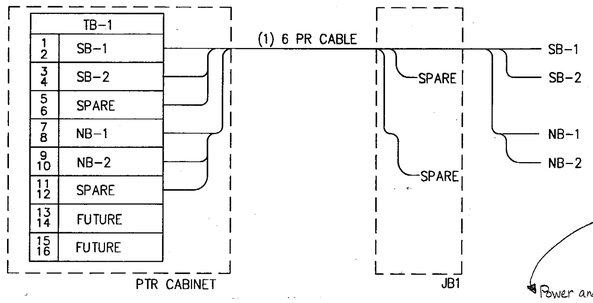
THIRD AVENUE EXTENSION
PROJECT NO. 68490

Illumination Details

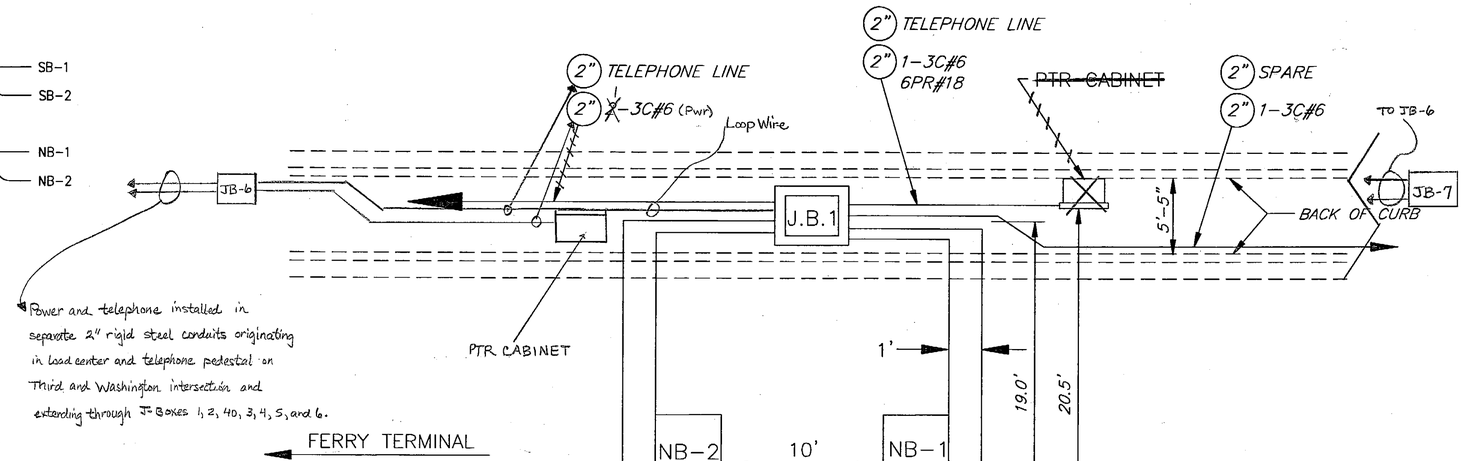
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	**2002**
SHEET NUMBER	TOTAL SHEETS
T13	**146**

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 5-7-06



H1 *WIRING SCHEMATIC*



CONDUIT TYPE	SIZE	FROM	TO	CABLE QTY.	TYPE
RMC	2"	#6	JB1	1	1-3C #6
RMC	2"	PTR	JB1	1	(1) 6PR CABLE
PVC	1"	JB1	NB-1	1	1PR No.14
PVC	1"	JB1	NB-2	1	1PR No.14
PVC	1"	JB1	SB-1	1	1PR No.14
PVC	1"	JB1	SB-2	1	1PR No.14

H1 *CONDUIT/CONDUCTOR SCHEDULE*

SHEET NOTES

1. SEE TYPICAL SECTIONS FOR DIMENSIONS.
2. INDUCTION LOOPS TO BE CENTERED IN TRAFFIC LANES.
3. ALL JUNCTION BOXES SHALL BE TYPE II.
4. THE CONTRACTOR SHALL INSTALL A TELEPHONE LINE INTO THE PTR CABINET AND PAY ALL FEES AND PERMITS FOR PROVIDING TELEPHONE SERVICE. THE STATE WILL ACCEPT BILLING FOR THE TELEPHONE AFTER PROJECT COMPLETION.
5. INSTALL LOOPS PER PLAN SHEET T16.

PLAN

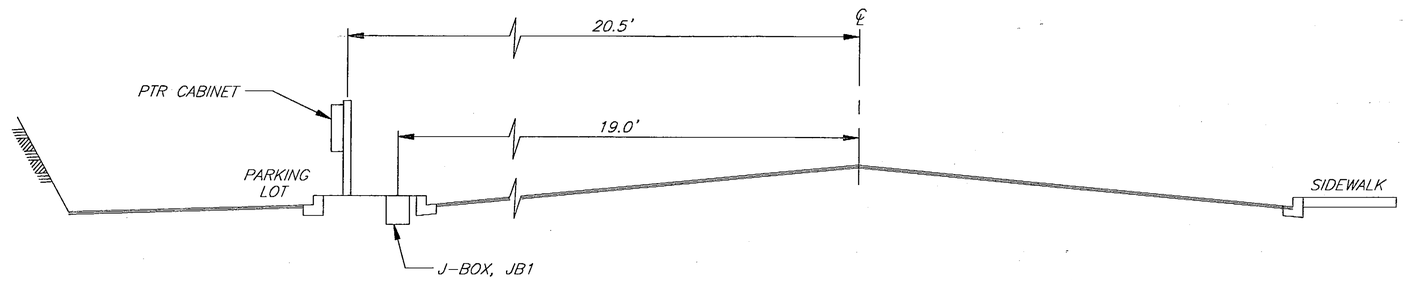
H1 *TRAFFIC COUNTER TYPICAL*

N.T.S.

LEGEND

(2") = 2" DIA. RMC

□ = TYPE II J-BOX



H1 *ELEVATION VIEW*

N.T.S.

PATH: Q:\Ktn\71811A\Planset\T4-12_SignStriping.dwg
Mon, 06/May/02 09:52AM Michael Limbaugh
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

PTR Details

DESIGNED BY: R. PURVES

STATE OF ALASKA 49th
Ken L. Mattson
CE-10049
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN

DRAWN BY: T.M. /R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

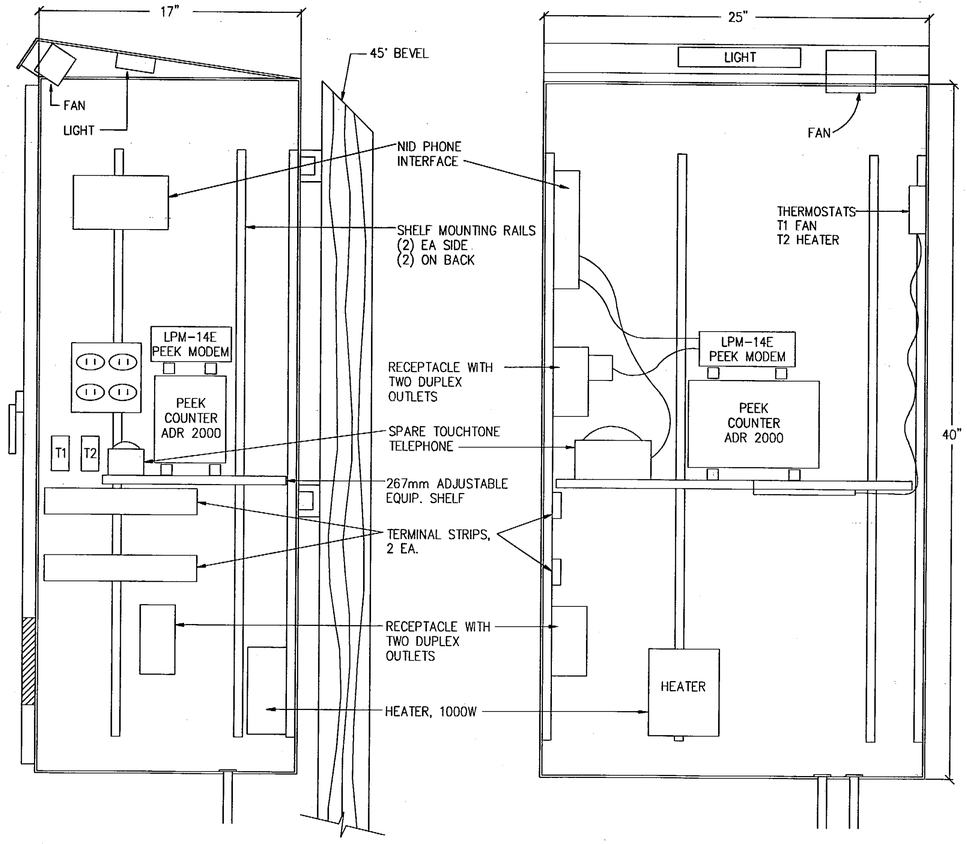
PTR Details

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T14	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

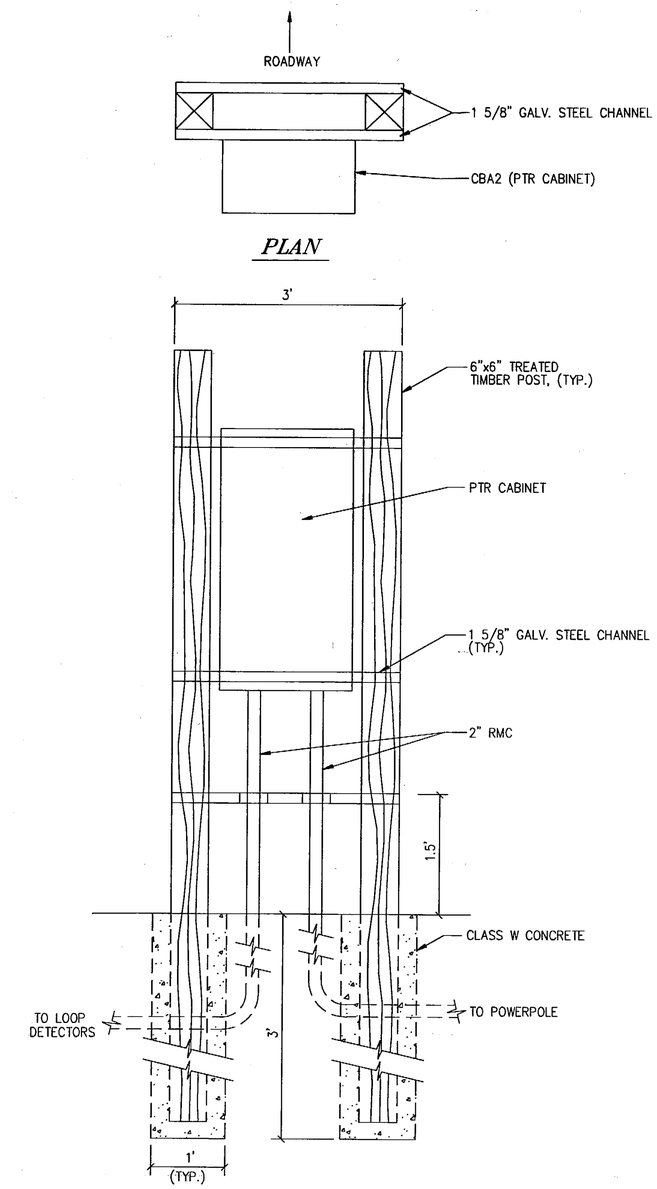
Proj. Eng _____ Date 10-31-06



PTR CABINET DETAILS

NOTES:

1. USE CONDUIT HUBS IN BOTTOM OF CABINET. USE TYPE CHT WITH NEOPRENE SEAL AND INSULATED THROAT FOR NON-POWER CONDUITS WITH DETECTOR LEAD-IN CABLES AND TELEPHONE SERVICE. USE TYPE CHN FOR SERVICE ENTRANCE CONDUIT AND CONNECT FLEXIBLE METAL CONDUIT TO CB PANEL INSIDE CABINET.
2. SEE SPECIFICATIONS FOR ADDITIONAL CABINET REQUIREMENTS.
3. CABINET DOOR SHALL FACE AWAY FROM ROADWAY.
4. PROVIDE VOLTAGE SURGE PROTECTION IN CB PANEL.
5. ALL 120V WIRING, INCLUDING THAT FOR PANELBOARD, LIGHT, FAN, AND THERMOSTATS TO BE IN FLEXIBLE METAL CONDUIT WITH EXCEPTION OF CORD CONNECTED ELECTRONIC EQUIPMENT.
6. ALL EQUIPMENT INSIDE CABINET TO BE FASTENED TO RAILS WITH NO SCREW PENETRATIONS OF THE CABINET SURFACE.
7. CABINET DIMENSIONS ARE NOMINAL AND WILL VARY BETWEEN MANUFACTURERS.
8. THE CABINET LIGHT SHALL BE LOW PROFILE WITH CHROME WIRE GUARD.



ELEVATION

TYPICAL CABINET DETAIL

PATH: Q:\Ktn\71811A\Planset\T4-12_SignStriping.dwg
Mon, 06/May/02 09:52AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Control Cabinet Details

DESIGNED BY: R. PURVES

STATE OF ALASKA 49th
Ken L Mattson
CE-10049
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN
DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

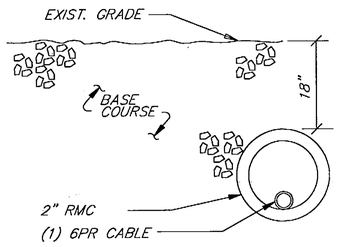
THIRD AVENUE EXTENSION PROJECT NO. 68490

Control Cabinet Details

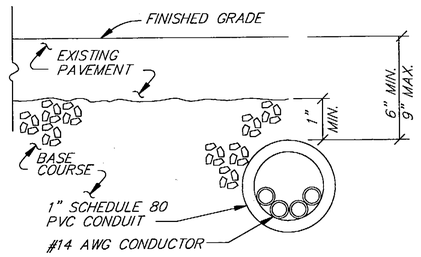
PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	**2002**
SHEET NUMBER	TOTAL SHEETS
T15	**146**

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

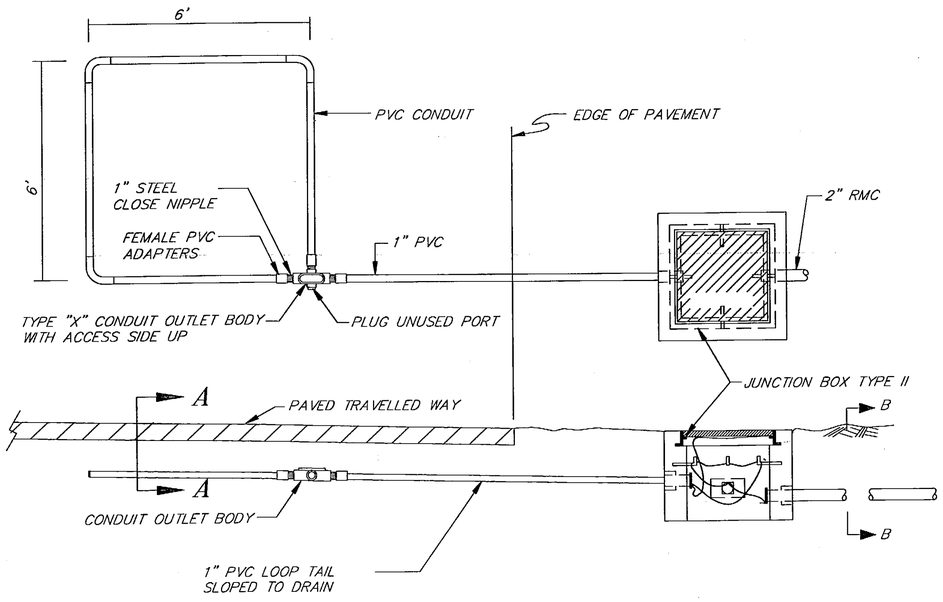
Proj. Eng _____ Date 10-31-06



SECTION B–B



PVC CONDUIT DETAIL SECTION A–A

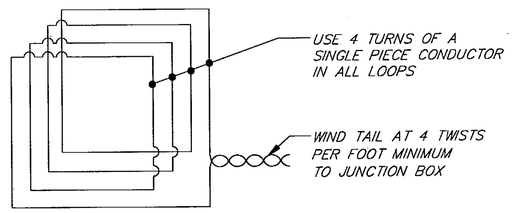


SHOULDER SECTION

INDUCTIVE LOOPS

LEAD–IN WIRES FOR EACH LOOP SHALL BE IN SEPARATE CONDUITS TO THE FIRST JUNCTION BOX. THESE CONDUITS SHALL BE SEPARATED FROM OTHER LOOPS BY A MINIMUM OF 12".

INDUCTIVE LOOPS SHALL BE INSTALLED IMMEDIATELY PRIOR TO PAVING THIS SECTION OF ROADWAY. FINAL LIFT ASPHALT PAVEMENT SHALL BE SMOOTH OVER ALL INDUCTIVE LOOPS AND WITHOUT TRANSVERSE SEAMS, JOINTS, OR ROUGHNESS WITHIN 50' OF THE LOOPS.



LOOP WIRING DETAIL

GENERAL NOTES

1. EACH LOOP DETECTOR SHALL CONSIST OF A SINGLE PIECE OF #14 AWG CONDUCTOR INSTALLED IN 1" SCHEDULE 80 PVC CONDUIT. FORM ALL LOOPS 6' SQUARE, SOLVENT WELD ALL PVC TO PVC JOINTS. USE TYPE X OUTLET BODIES THAT ARE MADE OF HOT DIP GALVANIZED STEEL TO JOIN THE LOOPS AND TAILS.
2. INSTALL 4 TURNS OF CONDUCTOR IN ALL LOOPS AND PROVIDE TAILS THAT EXTEND TO THE JUNCTION BOX SPECIFIED ON THE PLANS. USE #14 AWG CONDUCTOR IN A POLYETHYLENE TUBE CONFORMING TO IMSA SPECIFICATION 51–5. WIND THE TAIL CONDUCTORS TOGETHER AT A RATE OF 4 TWISTS PER FOOT.
3. INSTALL ALL LOOP DETECTORS PRIOR TO OVERLAYING EXISTING PAVEMENT OR PAVING A NEW ROADWAY.
4. INSTALL ALL LOOP DETECTORS SLOPED TO DRAIN INTO THE JUNCTION BOX THE LOOP TAIL ENTERS.
5. NO MINIMUM CLEARANCE IS REQUIRED BETWEEN A LOOP AND A TAIL OR BETWEEN TAILS. LOOP TAILS SHALL NOT CROSS LOOP CONDUITS.
6. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY PRIOR TO SEALING THE LOOPS UNDER ASPHALT.
7. WHEN INSTALLING LOOP DETECTORS IN EXISTING PAVEMENT, CUT THE ASPHALT WITH A SAW AND REMOVE ALL ASPHALT WITHIN THE SAW CUT. MATCH EXISTING PAVEMENT THICKNESS WHEN REPAIRING THE CUTOUT.
8. WHERE EXISTING PAVEMENT WILL NOT BE OVERLAID, ENCLOSE ALL LOOPS THAT ENTER A COMMON JUNCTION BOX WITHIN A TRAPEZOIDAL SAW CUT. CUT TO WITHIN 12" OF THE LANE AND EDGE LINES, PRESERVING THESE PAVEMENT MARKINGS; REMOVE THE ASPHALT TO THE LIP OF THE GUTTER WHEN THERE ARE NO EDGE LINES. CUT ACROSS LANE LINES WHEN LOOPS IN ADJACENT LANES ARE SIDE BY SIDE. CUT TRENCHES A MINIMUM OF 1 METER WIDE WHEN INSTALLING LOOP TAILS ACROSS A LANE; TRENCHES CROSSING A SHOULDER ONLY MAY BE A MINIMUM 12" WIDE.
9. HEAT AND TACK COAT THE EDGES OF EXISTING PAVEMENT PRIOR TO PAVING THE CUTOUTS. COMPACT THE ASPHALT MIXTURE WITH A SELF PROPELLED STEEL WHEELED ROLLER. THE ASPHALT MIX SHALL CONFORM TO SECTION 401 OF THE SPECIFICATIONS, AND APPROVED FOR USE BY THE ENGINEER.
10. MAINTAIN THE REPLACEMENT ASPHALT MIX AT A TEMPERATURE OF 108° C UNTIL THE TIME OF APPLICATION; IF NECESSARY, STORE THE MIX IN AN INSULATED BOX TO MAINTAIN THE SPECIFIED TEMPERATURE.
11. ALL WORK ASSOCIATED WITH INSTALLING LOOP DETECTORS IS CONSIDERED PART OF ITEM 669(1) AND WILL NOT BE MEASURED SEPARATELY OR PAID FOR DIRECTLY. THIS WORK INCLUDES BUT IS NOT LIMITED TO: LOOP MATERIALS, JUNCTION BOXES, CONDUIT, LOOP LEAD IN CABLE, TESTING, SPLICING, CONDUCTOR LABELING AND SAW CUTTING. ASPHALT REMOVAL AND INSTALLATION OF NEW ASPHALT SHALL BE PAID UNDER THEIR RESPECTIVE PAY ITEMS.
12. DUCK SEAL ALL CONDUITS INSIDE THE JUNCTION BOXES.

TYPICAL PVC CONDUIT ENCASED LOOP DETECTOR INSTALLATION

PATH: Q:\Ktn\71811A\Planset\T4–12_SignStriping.dwg
Mon, 06/May/02 09:52AM Michael Limbough
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN–THIRD AVENUE EXTENSION
PROJECT NO. 68490

Loop Detector Details

DESIGNED BY: R. PURVES

STATE OF ALASKA 49th
Ken L. Mattson CE–10049
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: M. LUKSHIN

DRAWN BY: T.M./R.S.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION PROJECT NO. 68490

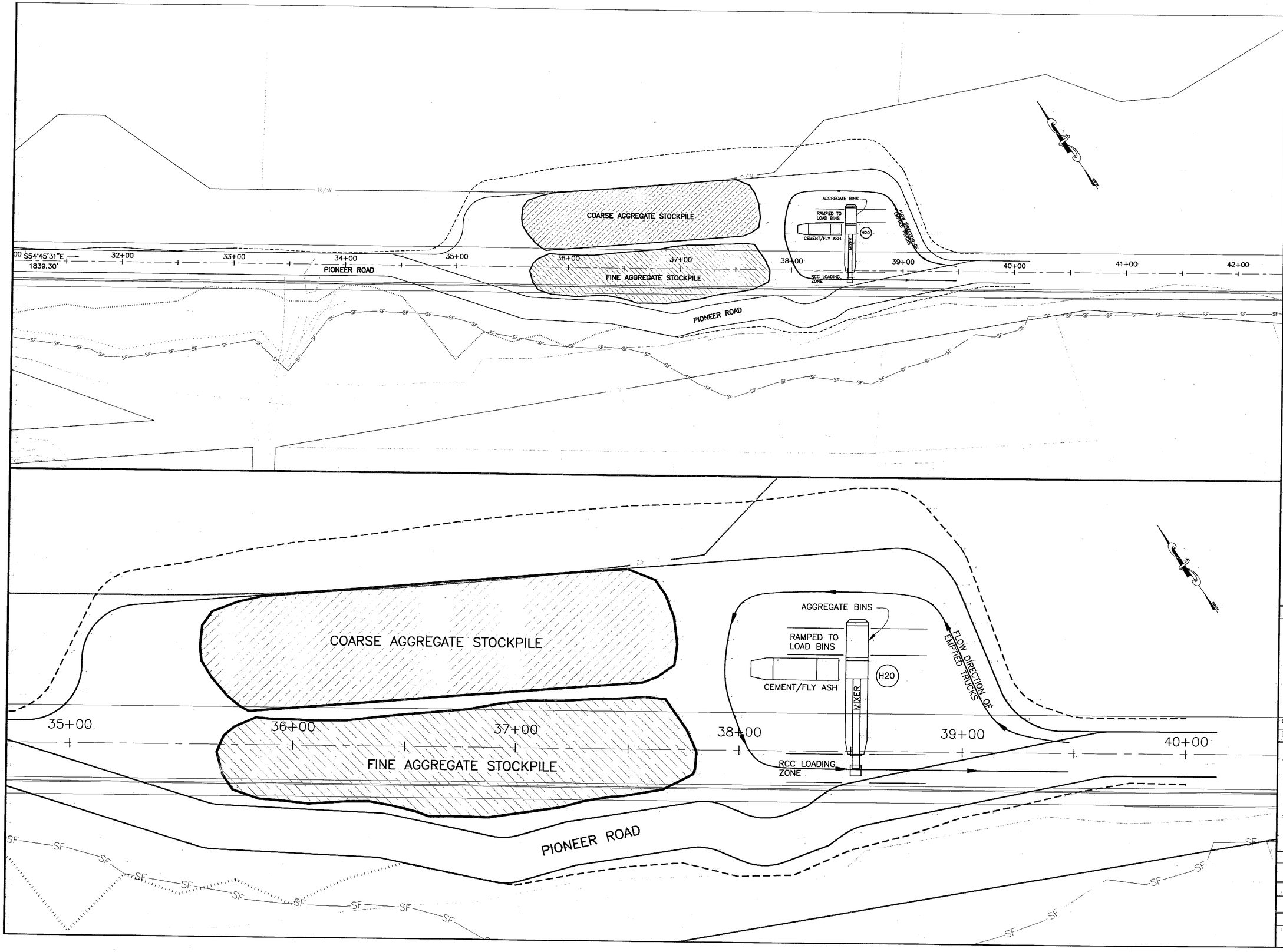
Loop Detector Details

PROJECT DESIGNATION NUMBER
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
T16	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10.31.06



PATH:
Q:\Ktn\71811A\Planset\W1_Pioneer_Staging.dwg
Tue, 07/May/02 10:51AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Conceptual Work Plan Staging Area

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

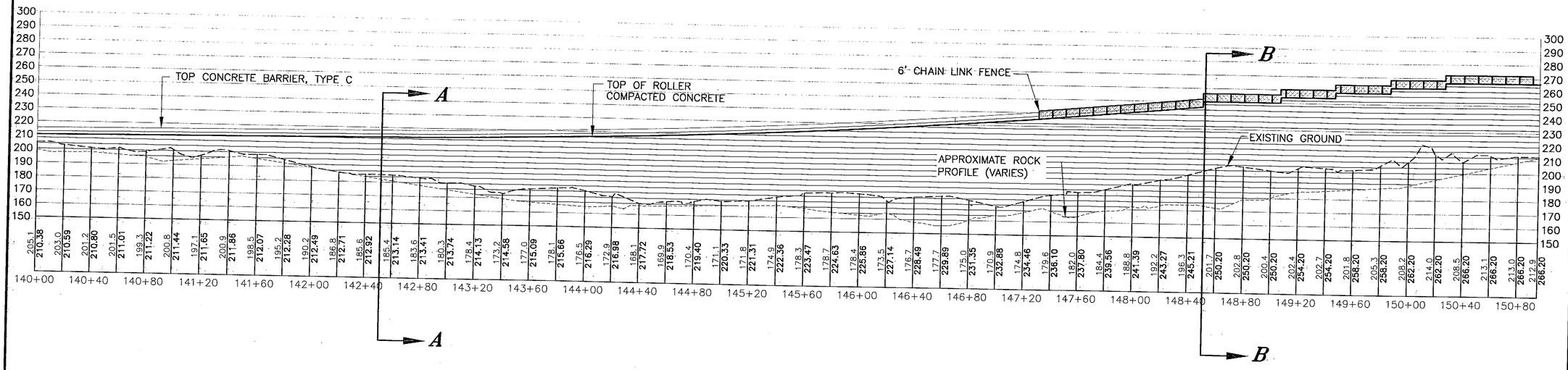
THIRD AVENUE EXTENSION
PROJECT NO. 68490

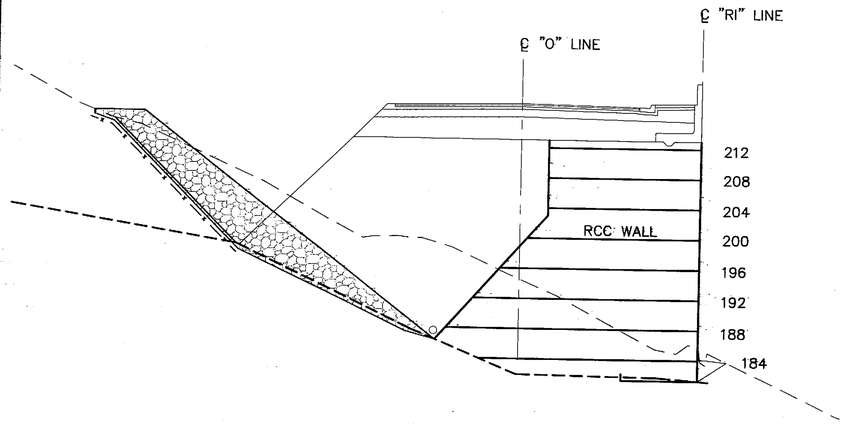
Conceptual Work Plan Staging Area

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
W1	146

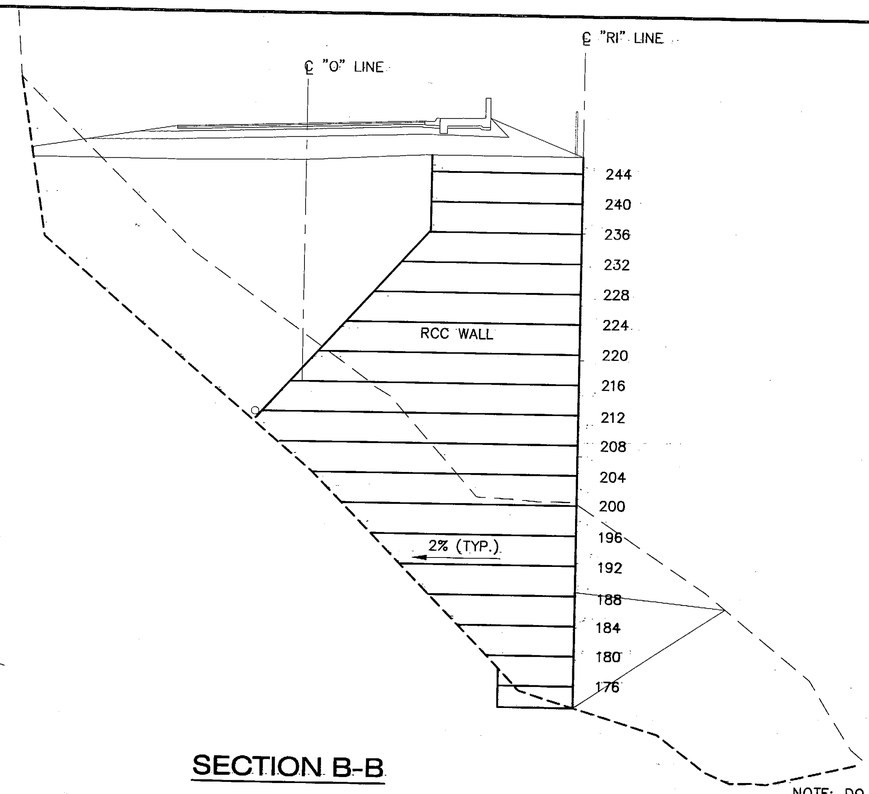
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-30-02





SECTION A-A



SECTION B-B

*LIFT ELEVATION	APPROXIMATE QUANTITY (cy.)
156	175
160	570
164	1075
168	1705
172	2315
176	2780
180	3200
184	3645
188	3860
192	3935
196	4030
200	3920
204	3740
208	3415
212	2780
216	2255
220	1990
224	1790
228	1615
232	1420
236	1220
240	1035
244	885
248	710
252	525
256	385
260	265
264	
TOTAL:	55,240

* LIFT ELEVATION SHOWN IS BOTTOM OF 4' LIFT

NOTE: DO NOT SCALE FROM DRAWING. USE DIMENSIONS.

PATH:
Q:\Ktn\71811A\Planset\W2_RCC-LIFTS.dwg
Tue, 07/May/02 01:29PM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: ESTIMATE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Work Plan Roller Compacted Concrete Lifts

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE
DRAWN BY: K.K. / M.L.L.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Work Plan
Roller Compacted Concrete Lifts

PROJECT DESIGNATION NUMBER	
STP-MG-0904(2)	
STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
W2	146

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 6-3-06

ROLLER COMPACTED CONCRETE WALL CONCEPTUAL WORK PLAN

1. CONSTRUCT PIONEER ROAD FOR ACCESS TO FACE OF WHITE CLIFF AND GENERAL AREA OF RCC WALL.
2. PREPARE CONSTRUCTION PLAN FOR RCC WALL AND EROSION CONTROL PLAN.
3. DEVELOP STAGING AREA PLAN.
4. DEVELOP MATERIAL SUPPLY PLAN INCLUDING PANEL FACING SYSTEM AND IMPLEMENT IN SCHEDULE REQUIRED.
5. CONSTRUCT DEWATERING WELLS BETWEEN STATIONS 40+00 TO 44+00 AND PUMP 30 DAYS PRIOR TO OVERBURDEN EXCAVATION.
6. INSTALL TEMPORARY ROCK CATCHMENT BARRIER.
7. DEVELOP STA. 48+50 ROCK BLOCK PLAN AND INSTALL ROCK BOLTS AND WEEP DRAINS PRIOR TO BEGINNING OVERBURDEN REMOVAL.
8. PROVIDE TEMPORARY DRAINAGE SYSTEM AT LOW POINT OF OVERBURDEN REMOVAL FOR COLLECTION OF STORM WATER. TREATMENT SYSTEM AND DISPOSAL TO ACCOMPANY THIS PLAN.
9. BEGIN OVERBURDEN EXCAVATION IN ACCORDANCE WITH PLANS FROM THE FACE OF WHITE CLIFF BACK STATION. HAUL MATERIAL OFFSITE TO DISPOSAL AREA.
10. EVALUATE EAGLE NEST TREE REQUIREMENTS PRIOR TO OVERBURDEN REMOVAL FROM STA. 40+00 TO 44+00. THIS AREA CANNOT BE LEFT WITHOUT THE RCC WALL AND BACKFILL IN PLACE OVER A WINTER SEASON (NOV. TRHU MARCH).
11. EVALUATE DEBRIS FLOW OVERBURDEN REMOVAL AND COMPLETE REMOVAL AS PER PLAN OR DELAY FOR WINTER SEASON.
12. CLEAN AND PREPARE FOUNDATION FOR PLACEMENT OF RCC WALL ON PORTIONS AVAILABLE FOR PLACEMENT.
13. PLACE RCC TEST STRIP FOR EVALUATION.
14. PLACE RCC EMBANKMENT AFTER EVALUATIONS ARE COMPLETE AND APPROVED. INSTALL AND MAINTAIN DRAINAGE THROUGHOUT INSTALLATION.
15. BUILD RCC IN LIFTS UNTIL THE UNDERDRAIN CAN BE INSTALLED ON UPHILL SIDE AND CONSTRUCT UNDERDRAIN.
16. CONTINUE BRINGING RCC UP IN LAYERS UNTIL COMPLETE. INSTALL ROCK ANCHORS AND PIPES WHEN REQUIRED.

PATH:
Q:\Ktn\71811A\Planset\W1_Pioneer_Staging.dwg
Mon, 06/May/02 11:22AM Michael Limbaugh
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-THIRD AVENUE EXTENSION
PROJECT NO. 68490

Conceptual Work Plan Construction Sequence

DESIGNED BY: C. HOWARD

STATE OF ALASKA
49th
Tracy W. Moore
CE-4932
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: T. MOORE

DRAWN BY: K.K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

THIRD AVENUE EXTENSION
PROJECT NO. 68490

Conceptual Work Plan Sequence

PROJECT DESIGNATION NUMBER

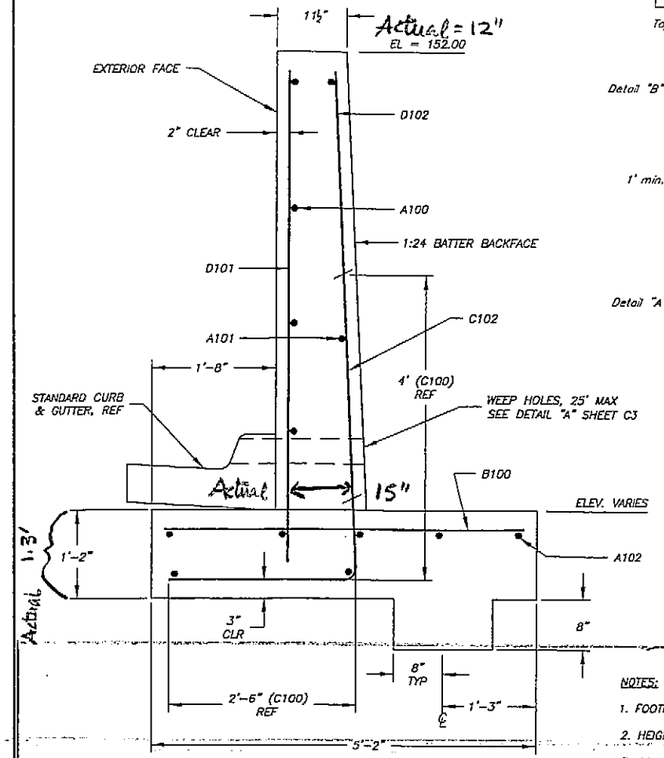
STP-MG-0904(2)

STATE	YEAR
ALASKA	2002
SHEET NUMBER	TOTAL SHEETS
W3	146

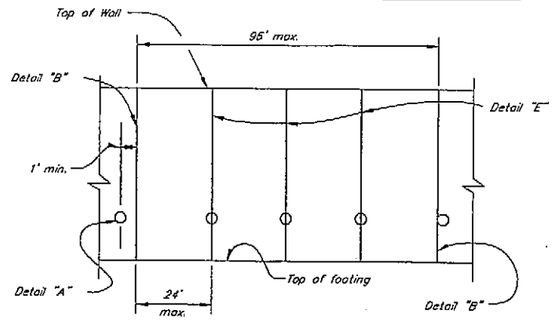
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng _____ Date 10-31-06

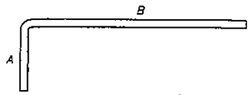
NOTE: REFER STD. DWG B-04.00 & B-05.00 FOR DETAIL "B" AND DETAIL "E". SEE SHEET C3 FOR DETAIL "A".



WALL No. 1 TYPICAL SECTION
NOT TO SCALE



WALL EXPANSION JOINT AND WEAKENED PLANES DETAIL "C"



BEND SCHEDULE
C BARS

RETAINING WALL No. 1 REBAR SCHEDULE

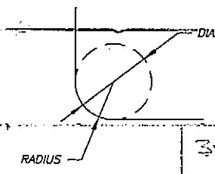
BAR LABEL	BAR SIZE	QTY	STRAIGHT	BEND A	BEND B	TOTAL LENGTH	SPACING	NOTES
C102	#5	55		2'-6"	4"	6'-6"	12" O.C.	
D101	#4	55	VARIES				18" O.C.	
D102	#5	55	VARIES				12" O.C.	3' MINIMUM LAP TO C100 BARS
A100	#4	14	CONT. HORIZ.			20'	18" O.C.	7 RUNS
B100	#4	55	4'-10"			4'-10"	12" O.C.	
B101	#4	15				20'		
A101	#4		CONT. HORIZ.				36" O.C.	
A102	#4		CONT. HORIZ.				12" O.C.	LAP 3', SPLICE 6' MIN TO END

MINIMUM BEND SIZES		
BAR	DIAMETER	RADIUS
#4	3"	1-1/2"
#5	3-3/4"	1-7/8"
#6	4-1/2"	2-1/4"

4' CHAINLINK FULL LENGTH

EL. 155.50

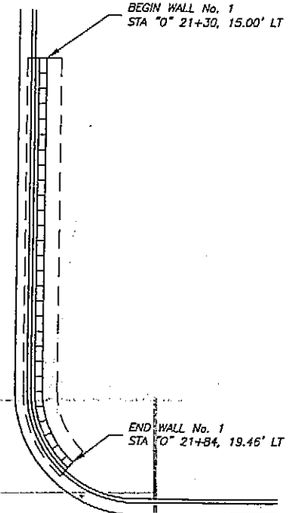
NOTES:
1. FOOTING WILL STAY 5'2" ENTIRE LENGTH OF WALL.
2. HEIGHT VARIES SO VERTICAL REBAR WILL VARY. TOP OF WALL STAYS AT 152.00'.
3. 11-1/2" WALL (TOP), 12:1/2 BATTER
4. NO EXPANSION JOINTS LESS THAN 96' MAX. WEAKENED PLANES TO BE PLACED AT 1/3 INTERVALS (18' APART)



3 TIERS/30"
X 72" BLOCKS

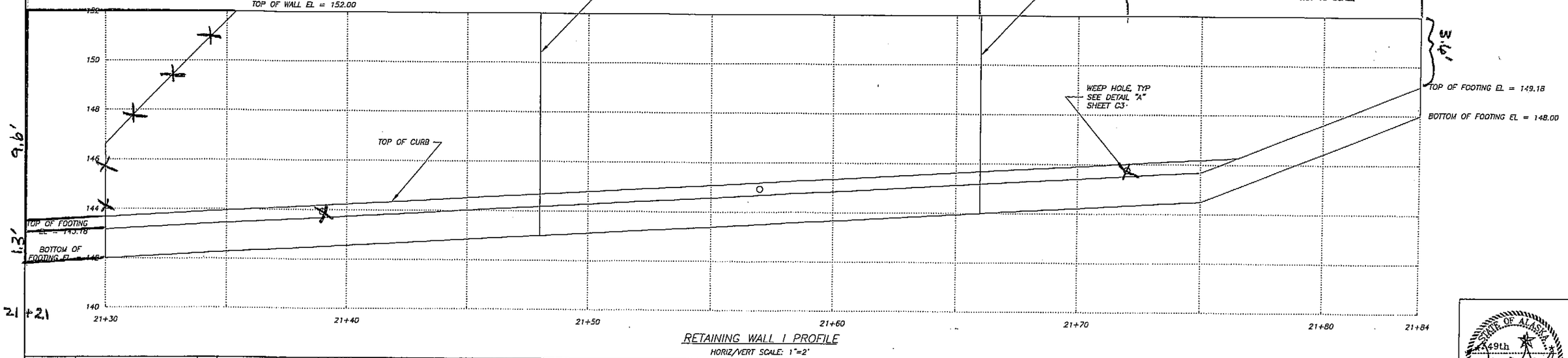
APPROVED FOR CONSTRUCTION
AS NOTED
3-4-04

THIRD AVENUE



WASHINGTON STREET

WALL No. 1 PLAN VIEW
NOT TO SCALE



RETAINING WALL 1 PROFILE
HORIZ/VERT SCALE: 1"=2'

Date	No.	Revision	By
12/11/03	3	REVISED PER ADOT	JMR
10/2/03	2	REVISED PER ADOT	JMR

Designed: | Approved: TSS | Scale: AS NOTED
Drawn: JMR | Date: 8/18/03 | Project: 032365
Checked: TSS | File:

R&M ENGINEERING-KETCHIKAN, INC.
355 CARLANNA LAKE ROAD
KETCHIKAN, ALASKA 99901

Client: ARROW CONSTRUCTION

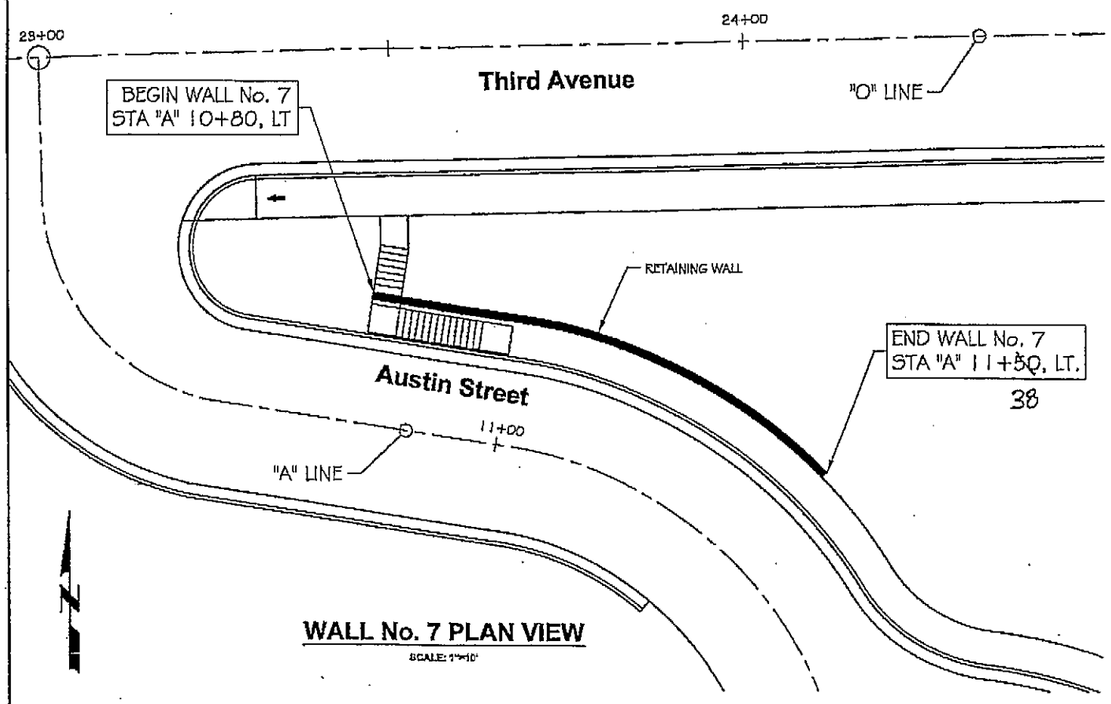
Project: THIRD AVENUE EXTENSION PROJECT 68490

Sheet Description: PROPOSED WALL No. 1 REBAR SCHEDULE

Sheet No. C1

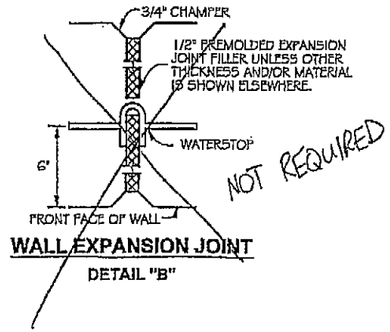
STATE OF ALASKA 49th TREVOR SANDE CE 9778 REGISTERED PROFESSIONAL ENGINEER

J2



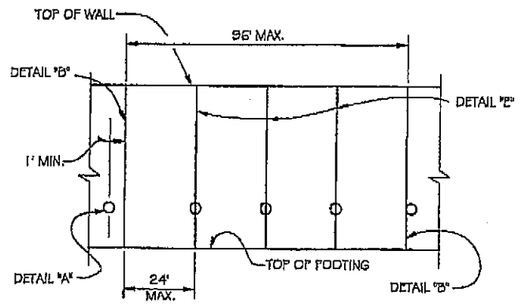
WALL No. 7 PLAN VIEW

SCALE: 1"=10'



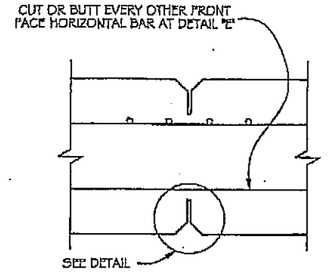
WALL EXPANSION JOINT

DETAIL "B"

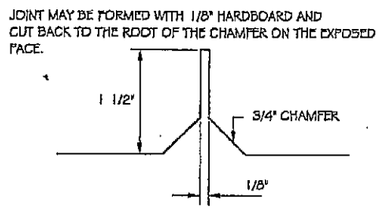


WALL EXPANSION JOINT AND WEAKENED PLANES

DETAIL "C"



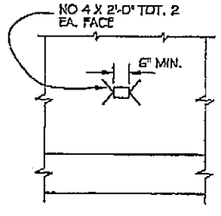
SECTION



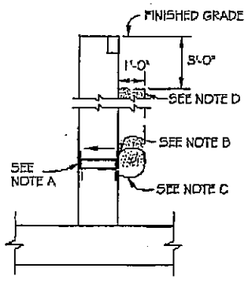
DETAIL

WEAKENED PLANES

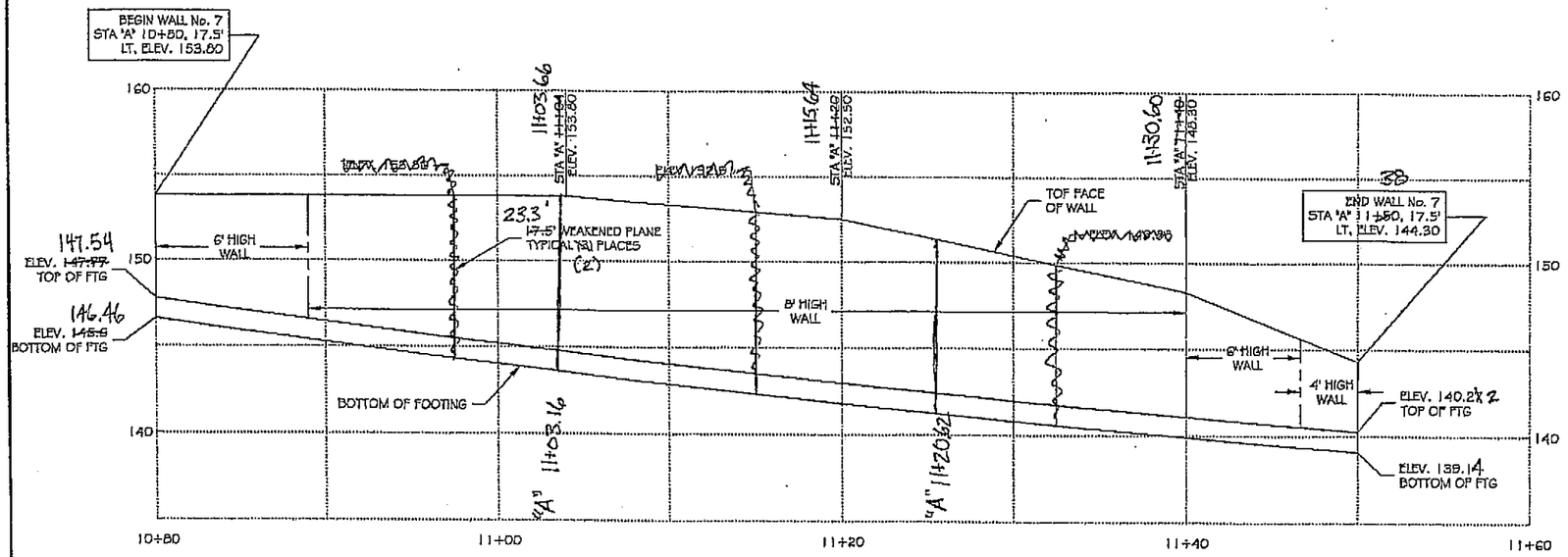
DETAIL "E"



ELEVATION



SECTION



PROFILE AT WALL

SCALE: 1"=4'

WEEP HOLE AND PERVIOUS BACKFILL

DETAIL "A"

NOTES: SEE EMAIL

A. 4" DIA. DRAINS 25' MAX. CENTER TO CENTER. FOR WALLS ADJACENT TO SIDEWALKS OR CURBS, PROVIDE 4" CAST IRON PIPE UNDER THE SIDEWALK TO DISCHARGE THRU FACE CURB FACE. EXPOSED WALL DRAINS SHALL BE LOCATED 3" ABOVE FINISHED GRADE.

B. 6" SQUARE ALUMINUM OR GALVANIZED STEEL WIRE 4 MESH HARDWARE CLOTH(MIN WIRE DIAMETER 0.035") ANCHOR FIRMLY TO BACKFACE.

C. ONE CUBIC FOOT PERVIOUS BACKFILL MATERIAL IN A BURLAP SACK, SECURELY TIED.

D. PERVIOUS BACKFILL MATERIAL CONTINUOUS BEHIND RETAINING WALL OR ABUTMENT.

REVIEW COPY

Date	No.	Description Revision	By

Designed: TSS | Approved: TSS | Scale: AS NOTED
Drawn: JMR | Date: 5/13/04 | Project: 002305.02
Checked: TSS | File:

R&M ENGINEERING-KETCHIKAN, INC.
355 CARLANNA LAKE ROAD
KETCHIKAN, ALASKA 99901

Client: COALASKA
4418 N. TONGASS HIGHWAY
KETCHIKAN, ALASKA 99901

Project: THIRD AVENUE EXTENSION
PROJECT NO. 68490

Sheet Description: PROPOSED WALL No. 7
PLAN & PROFILE

Sheet No. C1

STATE OF ALASKA 49th TREVOR BANDE CE 9778 REGISTERED ENGINEER

E9

Additional sheet - attach to NIP

CITY OF KETCHIKAN

WHITE CLIFF LODE
TRACT C

N54°49'10"W
50.00'

U.S.M.S. 787

WHITECLIFF ADDITION
BLOCK 4

LOT 5

JONES
LOT 6

LOT 7

CITY OF KETCHIKAN

100.00'

60.00'

100.00'

S35°13'46"W

L4
L3 18.01'
L2

S35°13'46"W

Type A Inlet

TCE-38

E-38

L1 10.00'

22.00'

S35°13'46"W 15.00'

S35°13'46"W 22.00'

18" CPP

25.00'

10.00'

Type A Inlet

N54°49'10"W

25.00'

SECOND AVENUE

LINE TABLE		
LINE	BEARING	LENGTH
L1	N54°49'10"W	15.00'
L2	S54°46'14"E	8.50'
L3	S35°13'46"W	18.00'
L4	N54°49'10"W	8.50'

See C.O. #26

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	RIGHT OF WAY REQUIRED FOR:
PARCEL NO. TCE-38 DATE: 8/2004 AREA: 483 S.F. SCALE: 1"=20' DRAWN BY: ROW CHECKED BY:	OWNER'S INITIAL ATTACHED TO PAGE OF DATE

Q:\KTN\71811\RW\TCE-38.DWG