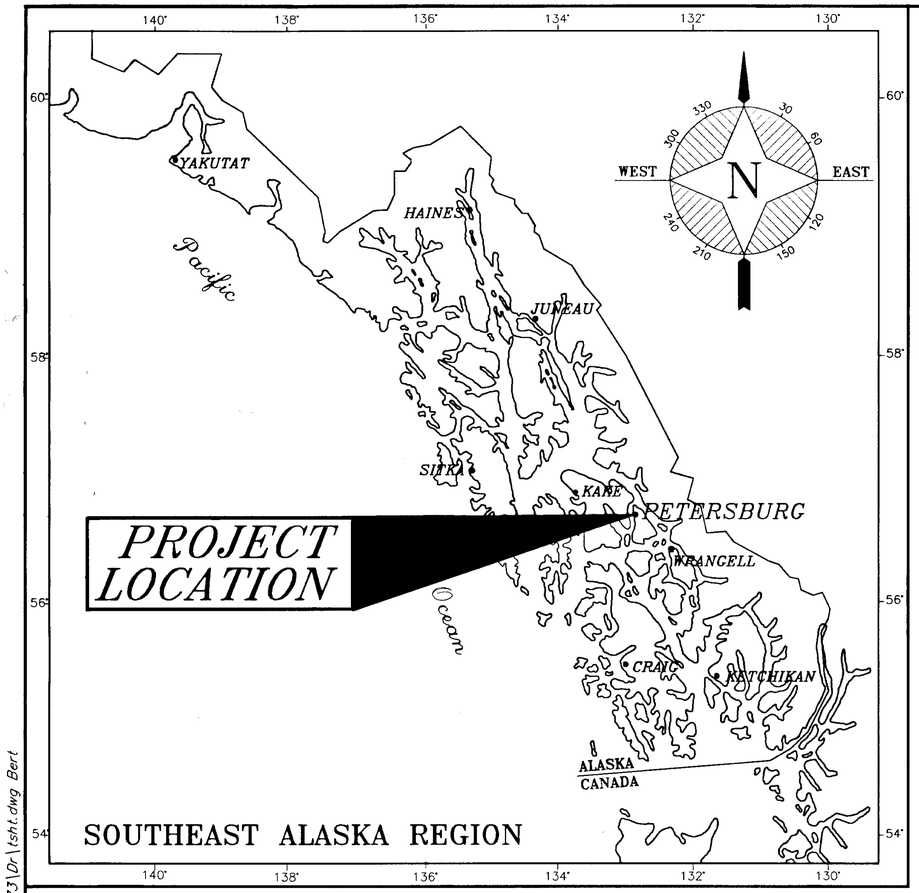


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

FOR THE
ALASKA MARINE HIGHWAY SYSTEM

PETERSBURG, ALASKA

PETERSBURG TERMINAL BUILDING EXPANSION
STP-0937(025)
PROJECT No. 75382

PETERSBURG UPLANDS IMPROVEMENTS
STP-0937(024)
PROJECT No. 75273

INDEX OF SHEETS	
SHEET No.	*DESCRIPTION*
1	TITLE SHEET & COMBINED
	ESTIMATE OF QUANTITIES
2-26	PETERSBURG TERMINAL BUILDING EXPANSION
27-50	PETERSBURG UPLANDS IMPROVEMENTS
	AS-BUILTS

CONTRACTOR: McGraw Gravel Sales
PROJECT ENGINEER: Bruce Wood & Jim Mayer

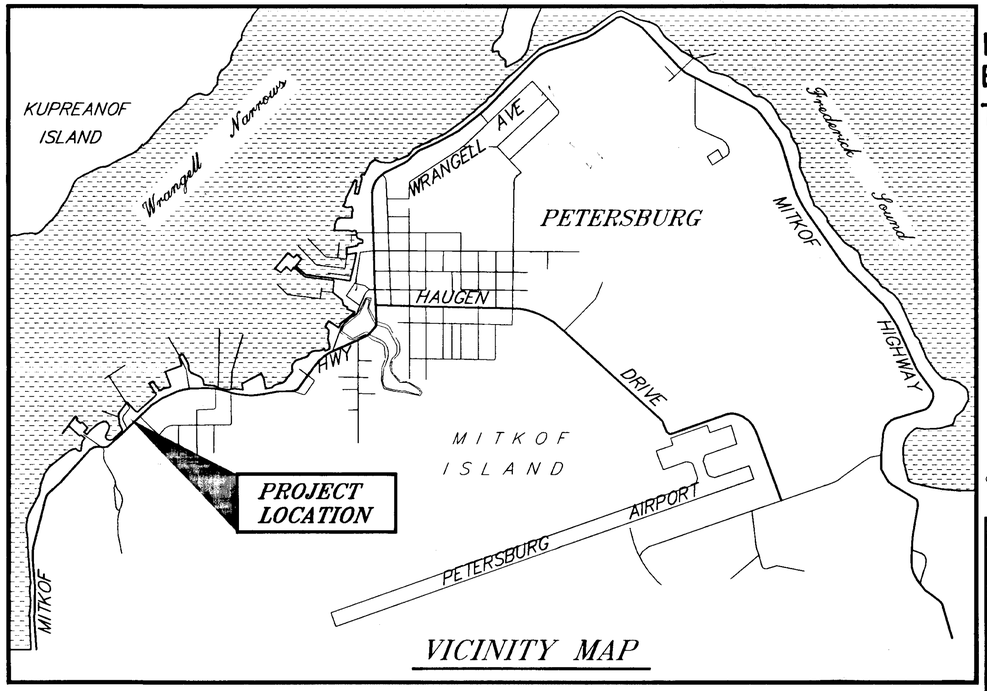
BEGIN DATE: Feb. 28, 2000
END DATE: July 1, 2000
TOTAL CONTRACT AMOUNT: $ 945,858.20

NEW ITEMS ESTABLISHED BY CHANGE ORDER

655(1A)	DOCK SWITCH RELOCATION, CO 1	LUMP SUM	ALL REQ'D.		ALL REQ'D.
655(1B)	CAB ABATEMENT, CO2	LUMP SUM	ALL REQ'D.		ALL REQ'D.
655(1C)	TERMINAL BUILDING MODIFICATIONS, CO3	LUMP SUM	ALL REQ'D.		ALL REQ'D
603(22)	STORM DRAIN MODIFICATIONS, CO 3	LUMP SUM		ALL REQ'D.	ALL REQ'D.

Combined Estimate of Quantities

Item No.	*Item*	*Unit*	*Project No. 75382*	*Project No. 75273*	*Quantity*
120(1)	DBE Adjustment	Contingent Sum	All Required	All Required	All Required
202(1)	Removal of Structures and Obstructions	Lump Sum		All Required	All Required
202(2)	Removal of Pavement	Square Yard		~~3,800~~ 3585	~~3,800~~ 3585
202(3)	Removal of Sidewalk	Square Yard		~~247~~ 282	~~247~~ 282
202(9)	Removal of Curb And Gutter	Linear Foot		~~357~~ 287	~~357~~ 287
401(1)	Asphalt Concrete Pavement	Ton		~~456~~ 483.46	~~456~~ 483.46
509(1)	Pedestrian Barrier	Linear Foot		~~60~~ 68.33	~~60~~ 68.33
608(1)	Concrete Sidewalk	Square Yard		~~234~~ 353.50	~~234~~ 353.50
609(2)	Standard Curb and Gutter	Linear Foot		~~236~~ 359.80	~~236~~ 359.80
615(1)	Standard Signs	Square Foot		63.50	63.50
626(1)	Sanitary Sewer Conduit	Linear Foot		~~762~~ 136	~~762~~ 136
627(1)	6 Inch Ductile Iron Water Conduit Class 52	Linear Foot		~~333~~ 285	~~333~~ 285
627(9)	Install 6 Inch Gate Valve	Each		1	1
627(11)	2-Inch Waterline Extension	Lump Sum		All Required	All Required
640(1)	Mobilization and Demobilization	Lump Sum	All Required	All Required	All Required
641(1)	Erosion and Pollution Control	Lump Sum		All Required	All Required
641(2)	Erosion and Pollution Control	Contingent Sum	All Required	All Required	All Required
642(1)	Construction Surveying	Lump Sum		All Required	All Required
642(2)	Three Person Survey Party	Hour		~~5~~ 0	~~5~~ 0
643(2)	Traffic Maintenance	Lump Sum		All Required	All Required
644(1)	Field Office	Lump Sum	All Required	All Required	All Required
660(1)	Site Illumination System	Lump Sum		All Required	All Required
665(1)	Terminal Building Expansion	Lump Sum	All Required		All Required
670(1)	Painted Traffic Markings	Lump Sum		All Required	All Required



VICINITY MAP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED _____ Date 8/12/99
Regional Preconstruction Engineer

APPROVED _____ Date 12 Oct 99
Director, S.E. Region

PROJECT NUMBER: 75273

DATE: Aug. 1999

SHEET 1 OF 50

ENGINEER'S SEAL
STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER

Petersburg Terminal Building

Expansion

Petersburg, Alaska 99833

ARCHITECT	CIVIL/SURVEY	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ELECTRICAL ENGINEER	OWNER
A.E. Rogers Architects Alan Roger, R.A., Principal P.O. Box 34401 Juneau, Alaska 99803 (907) 789-7589 (Fax) 789-1638	State of Alaska DOT/PF, S.E. Region 6860 Glacier Highway Juneau, Alaska 99801 (907) 465-4446 (Fax) 465-3506	R&M Engineering, Inc. P.O. Box 34278 Juneau Alaska 99803 (907) 780-6060 (Fax) 780-4611	Murray & Associates P.O. Box 21081 Juneau, Alaska 99802 (907) 586-6622 (Fax) 586-6066	Haight & McLaughlin 418 Harris Street Juneau, Alaska 99801 (907) 586-9788 (Fax) 586-5774	State of Alaska DOT/PF, S.E. Region 6860 Glacier Highway Juneau, Alaska 99801 (907) 465-4446 (Fax) 465-4414

CODE DATA

CODE:	UNIFORM BUILDING CODE (UBC) 1997
OCCUPANCY (TABLE 3-A):	A-2.1 (ASSEMBLY > 300)
MIXED OCCUP. SEPARATIONS:	NONE (TABLE 3-B)
CONSTRUCTION TYPE:	V-1 (WOOD, NON-RATED) (TABLE 6-A) SPRINKLER WILL SUBSTITUTE FOR V-1 CONSTR. (SEC. 508)
AUTOMATIC SPRINKLER SYSTEM:	NOT REQUIRED FOR A-2.1 OCCUPANCY (SEC. 904.2.3) BUILDING IS SPRINKLERED TO OBTAIN V-1 CONSTRUCTION
FIRE RESIST. OF EXT. WALLS:	A-2.1 = 2 HOUR < 10 FEET FROM PROPERTY LINE 1 HOUR ELSEWHERE (TABLE 5-A)
OPENINGS IN EXT. WALLS:	A-2.1 = NOT PERMITTED < 5 FEET, PROTECTED < 10 FEET (TABLE 5-A)
MAXIMUM HEIGHT:	50 FEET
ACTUAL HEIGHT:	15 FEET (VERIFY) (TABLE 5-B)
MAXIMUM STORIES (V-1):	2 STORIES
ACTUAL STORIES:	1 STORY (TABLE 5-B)
ALLOWABLE AREA INCREASES:	(SEC. 505.1.2) SEPARATION ON THREE SIDES: MAXIMUM OF 100% INCREASE (VERIFY WITH SURVEY)
ALLOWABLE AREA PER FLOOR:	(TYPE V-1): A-2.1 = 10,500 (TABLE 5-B) + 10,500 (SEPARATION) = 21,000 S.F. TOT. ALLOWABLE AREA /FLR.
ACTUAL AREA ALL FLOORS:	EXIST. FLOOR PLAN = 1,422 S.F. ADDITION = 646 S.F. GRAND TOTAL = 2,068 S.F. (BUILDING COMPLIES)
OCCUPANT LOAD (TABLE 10-A):	WAITING AREA = 1,358 S.F./3 (WAITING) = 453 OFFICE = 224 S.F./100 (OFFICE) = 2 STORAGE = 161 S.F./300 (STORAGE) = 1 RESTROOMS = NO OCCUPANT LOAD MECHANICAL = NO OCCUPANT LOAD TOTAL BUILDING = 456 OCCUPANTS
ACCESSIBILITY REQUIRED (UBC) :	A-2.1 OCCUPANCY, YES (SEC. 1103.1.2)
FIRE ALARM SYSTEM:	REQUIRED FOR A-2.1 OCCUPANCY (SEC. 303.9)
RESTROOM FIXTURE COUNT:	UBC TABLE A-29-A (ASSEMBLY AREA) WAITING AREA = 1,358 S.F./15 (WAITING) = 90.53 OFFICE = 224 S.F./200 (OFFICE) = 1.12 STORAGE = 161 S.F./5000 (STORAGE) = 0.03 RESTROOMS = NO OCCUPANT LOAD MECHANICAL = NO OCCUPANT LOAD TOTAL = 92 OCCUPANTS OR 46 MALES & 46 FEMALES MALE = 2 WATER CLOSETS REQUIRED, 2 LAVS REQUIRED FEMALE = 2 WATER CLOSETS REQUIRED, 2 LAVS REQUIRED
DRINKING FOUNTAINS:	ONE DRINKING FOUNTAIN REQUIRED (TABLE A-29-A, NOTE)

GENERAL NOTES

1. ALL CONSTRUCTION TO BE PER 1997 U.B.C. AND ALL APPLICABLE MECHANICAL, ELECTRICAL, FIRE CODES (AS AMENDED BY THE CITY OF PETERSBURG) AND THE PETERSBURG ZONING/LAND USE REQUIREMENTS. THE CONSTRUCTION WILL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT - ACCESSIBILITY GUIDELINES).
2. ALL WALLS ARE 2X4 WOOD STUDS UNLESS OTHERWISE NOTED. DIMENSIONS ARE TO FACE OF FRAMING MEMBER UNLESS OTHERWISE INDICATED.
3. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE BEGINNING WORK AND TO NOTIFY THE OWNER'S REPRESENTATIVE AS TO ANY DISCREPANCIES.
4. DISPOSAL OF DEMOLITION MATERIAL (NOT TO BE SALVAGED) IS THE RESPONSIBILITY OF THE CONTRACTOR. BURNING ON THE PROJECT SITE IS NOT ALLOWED.
5. REMOVE ALL ELECTRICAL OUTLETS, TELEPHONE JACKS, SWITCHES AND THERMOSTATS THAT ARE LOCATED IN INTERIOR WALLS TO BE REMOVED OR WALLS WHERE A CONFLICT WITH NEW WORK EXISTS. IF UTILITIES ARE NOT TO BE EXTENDED, CAP IN A SAFE MANNER IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS.
6. WHERE REMOVAL OF EXISTING CONDITIONS HAS OCCURRED, PATCH AS REQUIRED TO MATCH EXISTING ADJACENT SURFACES AND FINISHES.
7. THESE DRAWINGS ARE FOR USE ON THE PETERSBURG FERRY TERMINAL PROJECT ONLY. THEY ARE NOT TO BE REUSED IN WHOLE OR IN PART ON ANY OTHER PROJECT WITHOUT WRITTEN PERMISSION FROM A.E. ROGERS ARCHITECTS.

BID ALTERNATES

ALTERNATE NO. 1

NOT APPLICABLE

DRAWING INDEX

A.E. Rogers ARCHITECTS
P.O. Box 34401 • Juneau, Alaska 99803
Tele 907.789.7589 Fax 907.789.1638

Alaska Marine Highway System
State No. 75382
Fed. No. STP-0937(25)

PETERSBURG TERMINAL BUILDING EXPANSION
1100 S. Nordic Drive
Petersburg, Alaska 99833

Revision	
Mk	Date

Drawn AER

Checked AER

Date 16 AUGUST 1999

STATE OF ALASKA 49th REGISTERED PROFESSIONAL ARCHITECT Alan E. Rogers No.A-5582

Proj. No. 98009A

Title COVER

Sheet 2 OF 50

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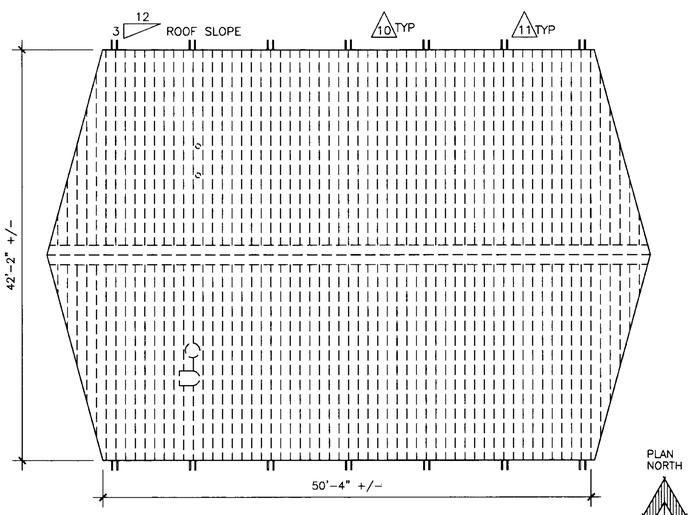
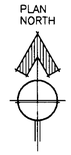
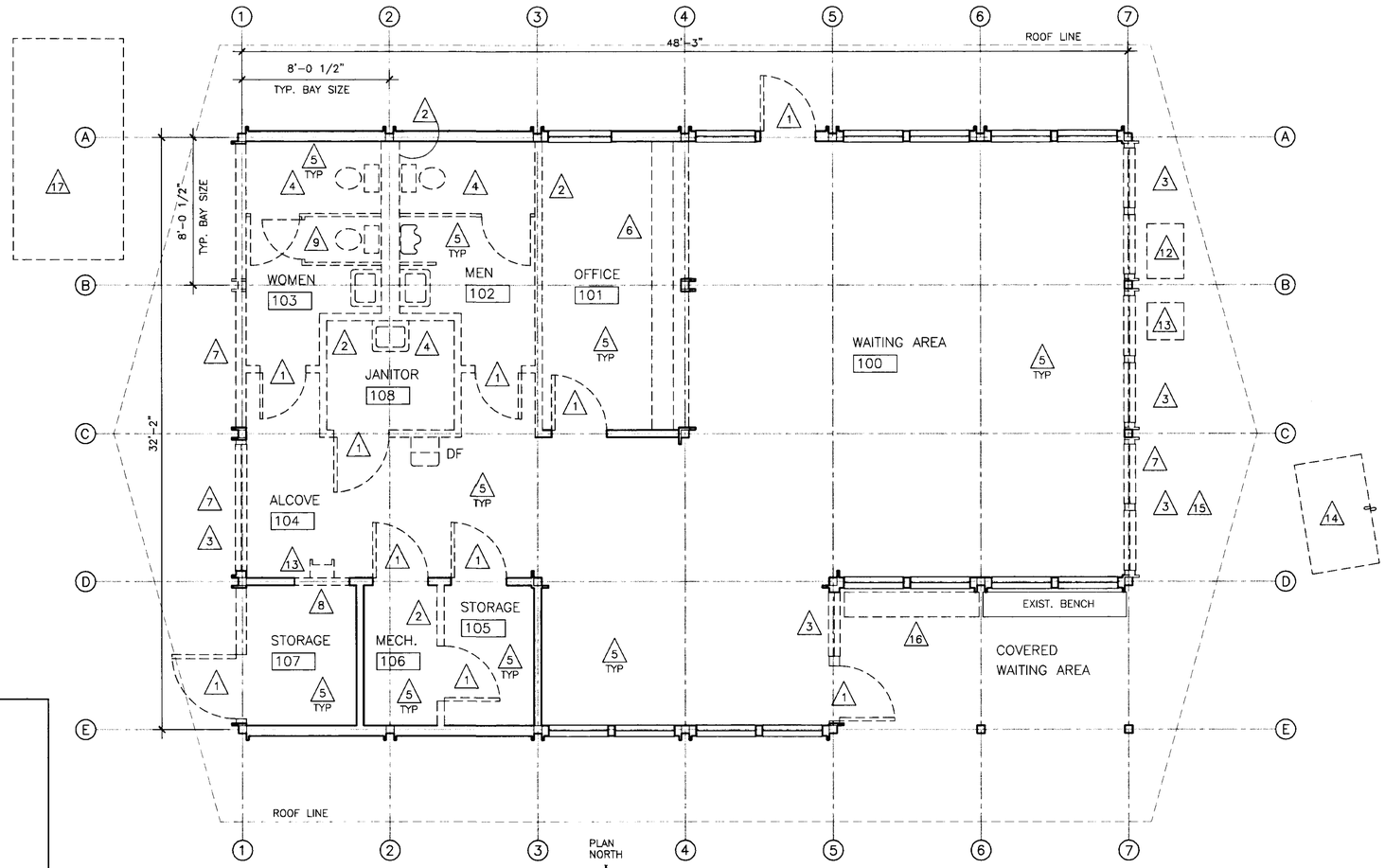


Demolition Roof Plan

1/8" = 1'-0"





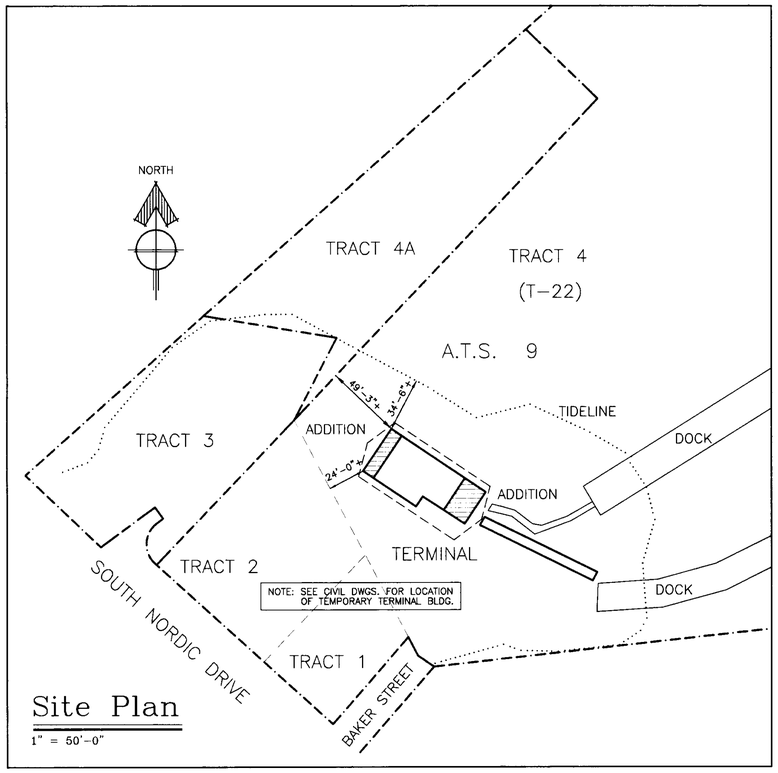
NOTE: SEE STRUCTURAL DWGS. FOR CONCRETE SIDEWALK DEMOLITION. SEE CIVIL DWGS. FOR BOLLARD & OTHER SITE RELATED ITEMS FOR DEMOLITION.

Demolition Plan

1/4" = 1'-0"

EXIST. TO REMAIN

EXIST. TO BE REMOVED



Site Plan

1" = 50'-0"

Demolition Notes

1. REMOVE EXIST. DOOR, HARDWARE AND FRAME
2. REMOVE EXIST. FULL HEIGHT WALL
3. REMOVE EXIST. WINDOW AND FRAME. PREPARE OPENINGS FOR NEW WINDOW UNITS
4. REMOVE EXISTING PLUMBING FIXTURES & TOILET PARTITIONS. CAP PLUMBING IN A SAFE MANNER IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS
5. REMOVE EXIST. FINISHED FLOORING AND BASE (TYP.) PREP SURFACE TO RECEIVE NEW FINISHED FLOORING
6. REMOVE EXIST. CASEWORK
7. REMOVE EXIST. EXTERIOR WALL. SUPPORT STRUCT. AS NECESSARY. PROTECT INTERIOR FROM WEATHER DAMAGE. SECURE BUILDING
8. REMOVE PORTION OF WALL TO RECEIVE NEW DOOR
9. REMOVE EXIST. CONC. SLAB TO EXTENT SHOWN ON NEW WORK TO MAKE PROVISIONS FOR NEW SLAB SLOPED TO DRAIN.
10. REMOVE EXIST. METAL ROOF AND ACCESSORIES. REMOVE FASCIA ON GABLE ENDS TO RECEIVE NEW ROOF STRUCTURE. REPLACE DAMAGED ROOF DECKING. PREPARE ROOF DECKING TO RECEIVE NEW METAL ROOF AND ACCESSORIES.
11. TRIM EXIST. 2X8 OUTLOOKERS BACK UNDER THE ROOF OVERHANG. TRIM TO WITHIN 6" OF EXIST. EXPOSED 4X8 STRUCTURAL MEMBER. BEVEL AT 60 DEGREE ANGLE. PAINT ENDS.
12. REMOVE AND RELOCATE VENDING MACHINE PER OWNER'S INSTRUCTIONS.
13. REMOVE AND RELOCATE PHONE BOOTH PER OWNER'S INSTRUCTIONS.
14. REMOVE SECTIONS OF DOMED GLASS WALKWAY AS REQUIRED TO ACCOMMODATE NEW TERMINAL WORK. TERMINATE END TO FINISHED EDGE. EXIST. DOMED GLASS WALKWAY IS APPROX. 6'-0" WIDE BY 7'-0" HIGH.
15. REMOVE EXIST. SIGN AND RELOCATE ON END OF ADDITION STRUCTURE PER OWNER'S INSTRUCTIONS.
16. REMOVE EXIST. BENCH. SALVAGE BRACKETS FOR REUSE.
17. MOVE EXIST. PORTABLE SHED (APPROX. 6'X12') AWAY FROM NEW CONSTRUCTION. LOCATION ON SITE TO BE DETERMINED BY OWNER.

Graphic Scale: (FEET)

0 1 4 6 8 16

NOTE: SCALE 1/4" = 1'-0" AT 22" X 34" SHEET ONLY.

A.E. Rogers
ARCHITECTS
P.O. Box 34401 • Juneau, Alaska 99803
Tele 907.789.7589 Fax 907.789.1638

Alaska Marine Highway System

State No. 75382
Fed. No. STP-0937(25)

PETERSBURG TERMINAL BUILDING EXPANSION
1100 S. Nordic Drive
Petersburg, Alaska 99833

Revision	
Mk	Date

Drawn AER

Checked AER

Date 16 AUGUST 1999

STATE OF ALASKA 49th Alan Rogers Alan E. Rogers No. A-5582 REGISTERED PROFESSIONAL ARCHITECT

Proj. No. 98009A

Title
DEMOLITION PLANS
SITE PLAN

A1 OF 7

Sheet 3 of 50

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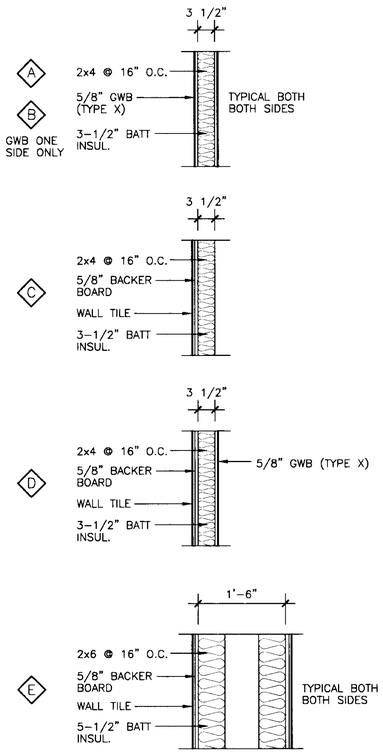
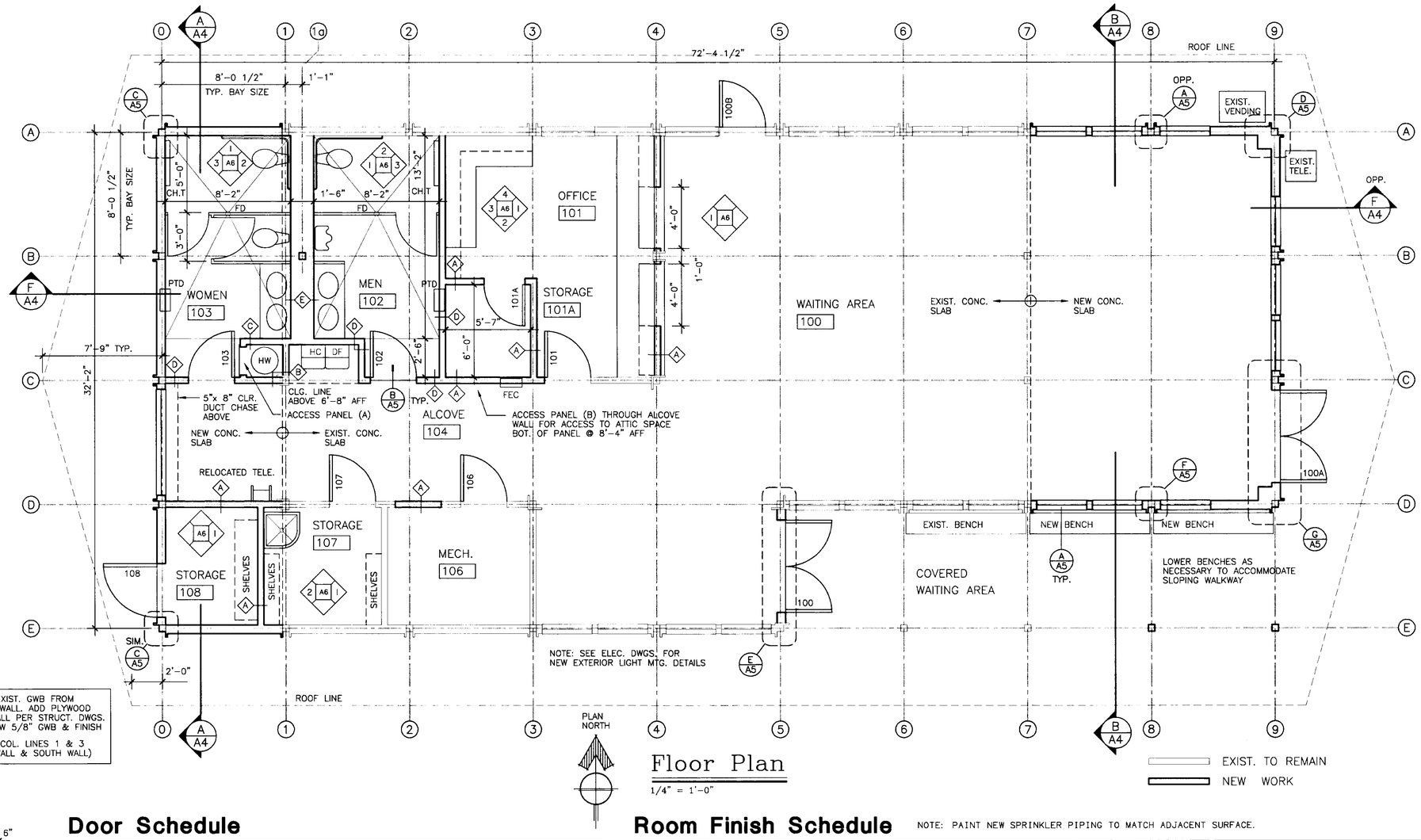
Wall Types

SC: 3/4" = 1'-0"





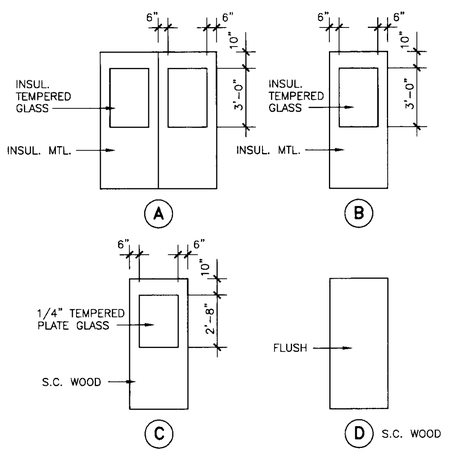
NOTE: REMOVE EXIST. GWB FROM INTERIOR WALL. ADD PLYWOOD SHEAR WALL PER STRUCT. DWGS. APPLY NEW 5/8" GWB & FINISH

BETWEEN COL. LINES 1 & 3 (NORTH WALL & SOUTH WALL)

Floor Plan

1/4" = 1'-0"

Door Types



Door Schedule

DOOR NO.	SIZE (W X H)	TYPE	RATING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	HARDWARE GROUP	REMARKS
100	6'-0" X 7'-0"	A	-	N/A5	N/A5		HW-1	PAIR, MTL., INSUL.
100A	6'-0" X 7'-0"	A	-	M/A5	M/A5		HW-1	PAIR, MTL., INSUL.
100B	3'-0" X 7'-0"	B	-	N/A5	N/A5		HW-2	MTL., INSUL.
101	3'-0" X 6'-8"	C	-	J/A5	J/A5		HW-3	SIGNAGE - "OFFICE"
101A	2'-8" X 6'-8"	D	-	J/A5	J/A5		HW-3	UNDERCUT DOOR 1"
102	3'-0" X 6'-8"	D	-	J/A5	J/A5	B/A5	HW-4	SIGNAGE - "MEN"
103	3'-0" X 6'-8"	D	-	J/A5	J/A5	B/A5	HW-4	SIGNAGE - "WOMEN"
106	3'-0" X 6'-8"	D	1 HR	J/A5	J/A5		HW-5	SIGNAGE "MECHANICAL"
107	3'-0" X 6'-8"	D	-	J/A5	J/A5		HW-3	SIGNAGE "STORAGE"
108	3'-6" X 7'-0"	E	-	M/A5	M/A5		HW-6	MTL., INSUL.
A	24" X 36"	ACC.	-	H/A5	H/A5		MFR	STAINLESS STL. ACCESS DOOR
B	24" X 36"	ACC.	-	H/A5	H/A5		MFR	STAINLESS STL. ACCESS DOOR

Room Finish Schedule

NOTE: PAINT NEW SPRINKLER PIPING TO MATCH ADJACENT SURFACE.

ROOM NO.	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL SOUTH	WALL EAST	WALL WEST	CEILING MAT.	CEILING FIN.	CEILING HEIGHT	AREA – REMARKS NSF
100	WAITING AREA	CPT	2X6	P2	P2	P2	P2	GWB	P2	VARIES	
101	OFFICE	CPT	4" RB	P2	P2	P2	P2	GWB	P2	7'-5"	
101A	STORAGE	CPT	4" RB	P2	P2	P2	P2	GWB	P2	7'-5"	
102	MEN	CT2	CT2	CT4	CT4	CT4	CT4	GWB	P2	7'-5"	
103	WOMEN	CT2	CT2	CT4	CT4	CT4	CT4	GWB	P2	7'-5"	
104	ALCOVE	CPT	2X6	P2	P2	P2	P2	GWB	P2	VARIES	
105	NOT USED										
106	MECH.	CONC	4" RB	P2	P2	P2	P2	GWB	P2	7'-5"	SEALED FINISH ON CONCRETE
107	STORAGE	VT	4" RB	P2	P2	P2	P2	GWB	P2	7'-5"	
108	STORAGE	CONC	4" RB	P2	P2	P2	P2	GWB	P2	7'-5"	SEALED FINISH ON CONCRETE

Abbreviations

MATERIALS

CONC	= CONCRETE (SEALED)	4" RB	= 4" RUBBER BASE
CPT	= CARPET	FIN H	= FINISHED HARDBOARD
SV	= SHEET VINYL	6" RB	= 6" RUBBER BASE
VT	= VINYL TILE	4" WB	= 4" WOOD BASE
QT	= QUARRY TILE	GWB	= GYPSUM WALLBOARD
6" COVE	= 6" INTEGRAL SV COVE	P-LAM	= PLASTIC LAMINATE
CT2	= CERAMIC TILE (2"x2")	ACT	= SUSPENDED ACOUSTICAL TILE
CT4	= CERAMIC TILE (4"X4")	ACT-D	= DIRECT APPLIED ACOUSTICAL TILE

FINISHES:

FAC	= FACTORY FINISH, CLEAN
P1	= PAINT: LOW LUSTRE ENAMEL
P2	= PAINT: SEMI-GLOSS ENAMEL
P3	= PAINT: METAL PAINT
WF	= WALL FABRIC
EXIST	= EXISTING
M-EXIST	= MATCH EXISTING ADJACENT SURFACE

A.E. Rogers
ARCHITECTS
P.O. Box 34401 • Juneau, Alaska 99803
Tele 907.789.7589 Fax 907.789.1638

Alaska Marine Highway System

State No. 75382
Fed. No. STP-0937(25)

PETERSBURG TERMINAL BUILDING EXPANSION

1100 N. Nordic Drive
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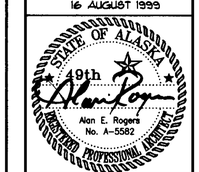

Proj. No. 98009A

Title
FLOOR PLAN SCHEDULES

A2 OF 7

Sheet 4 of 50

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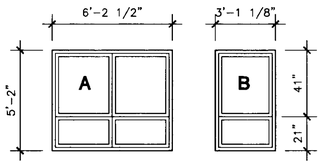
Graphic Scale: (FEET)

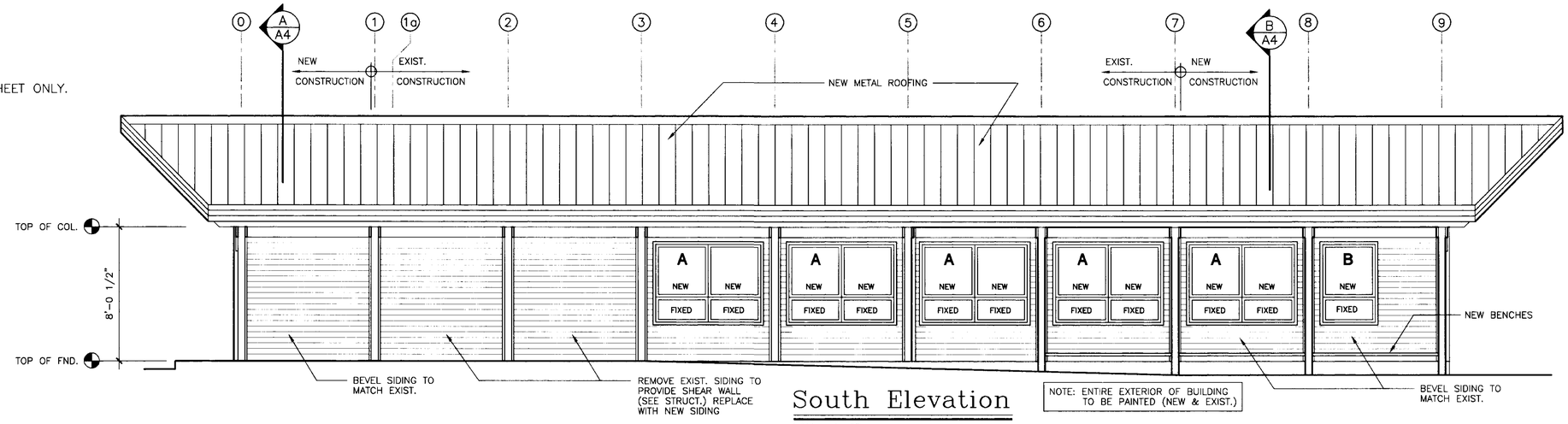
0 1 4 6 8 16

NOTE: SCALE 1/4" = 1'-0" AT 22" X 34" SHEET ONLY.

Window Schedule

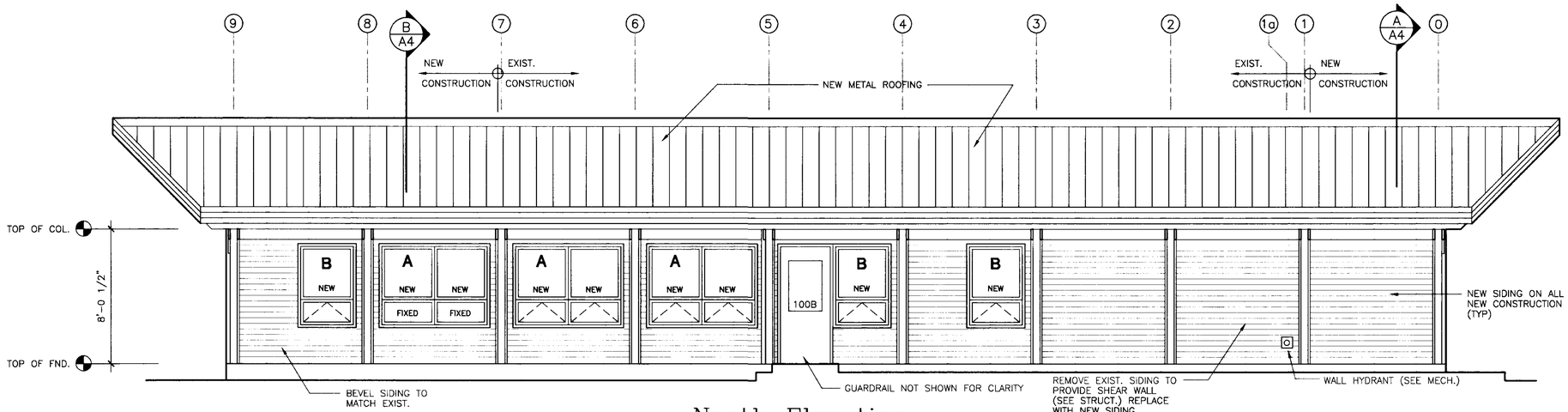


NOTE: THE DIMENSIONS SHOWN ARE FIELD MEASUREMENTS TAKEN FROM THE EXTERIOR OF THE EXIST. WINDOW UNITS UNITS OUTSIDE EDGE TO OUTSIDE EDGE. NEW WINDOW UNITS TO MATCH EXIST. OPENINGS. CONTRACTOR TO VERIFY EXIST. ROUGH OPENINGS BEFORE ORDERING NEW WINDOW UNITS.



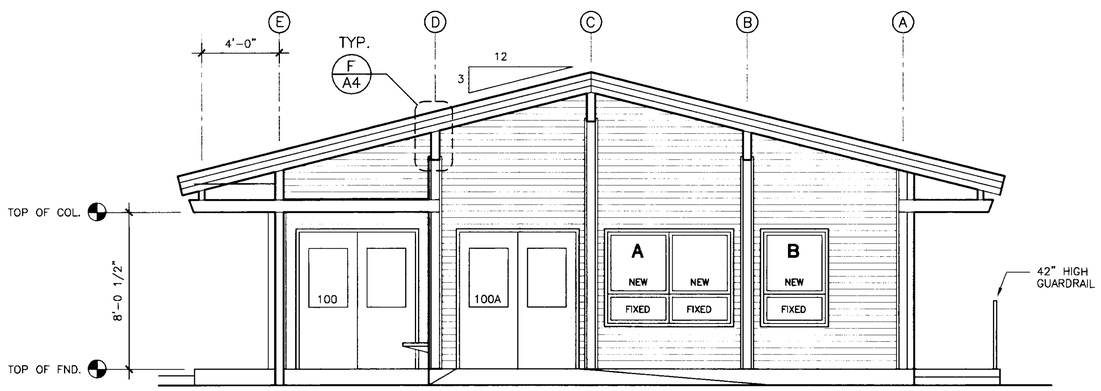
South Elevation

1/4" = 1'-0"



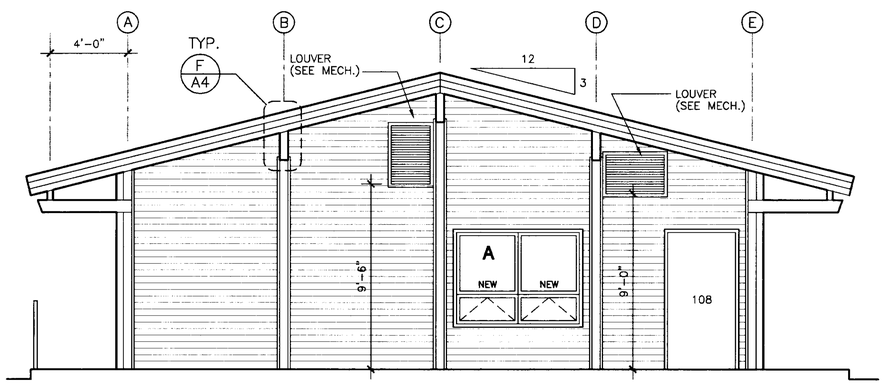
North Elevation

1/4" = 1'-0"



East Elevation

1/4" = 1'-0"



West Elevation

1/4" = 1'-0"

A.E. Rogers ARCHITECTS
P.O. Box 34401 • Juneau, Alaska 99803
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Alaska Marine Highway System

State No. 75382

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PETERSBURG TERMINAL BUILDING EXPANSION

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STATE OF ALASKA 49th
Alan E. Rogers No. A-5582
REGISTERED PROFESSIONAL ARCHITECT

Proj. No. 98009A

Title
EXTERIOR ELEVATIONS

A3 OF 7

Sheet 5 of 50

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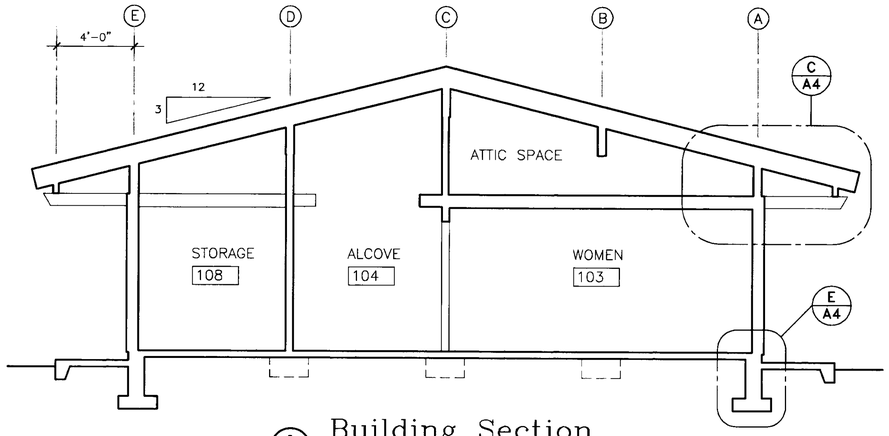
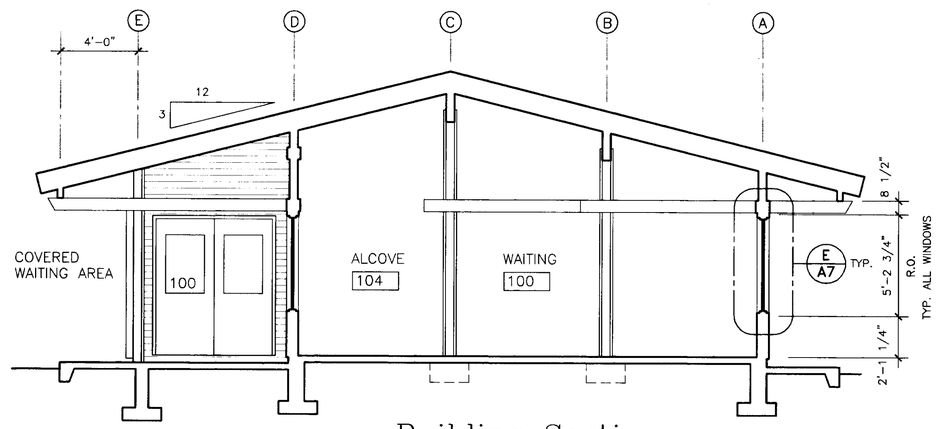


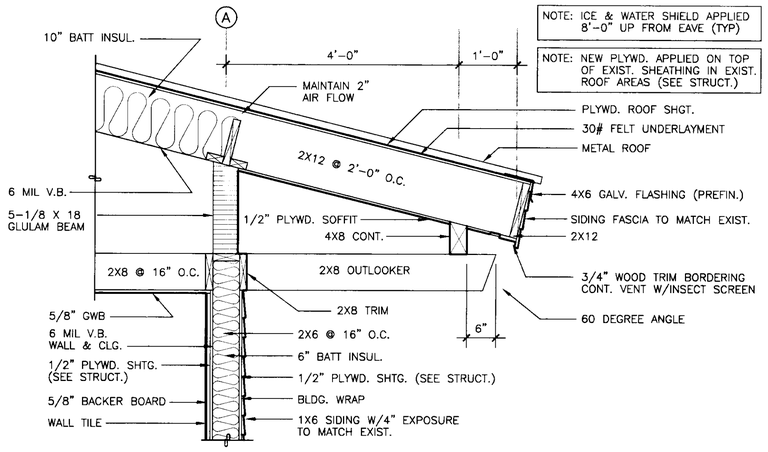
A Building Section

1/4" = 1'-0"



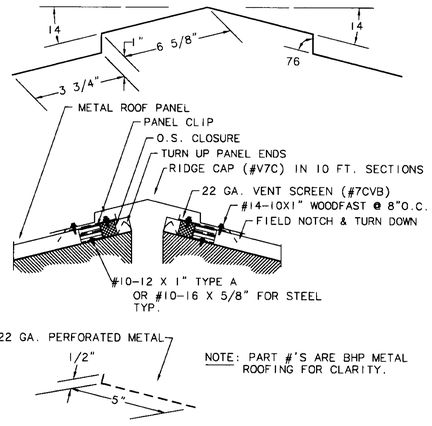
B Building Section

1/4" = 1'-0"



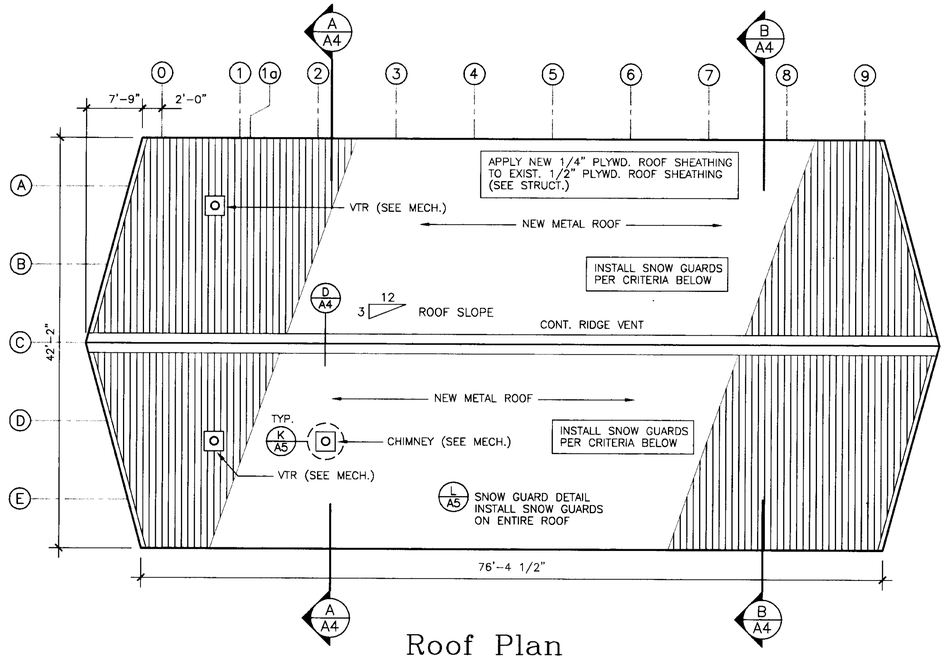
C Eave Section

3/4" = 1'-0"



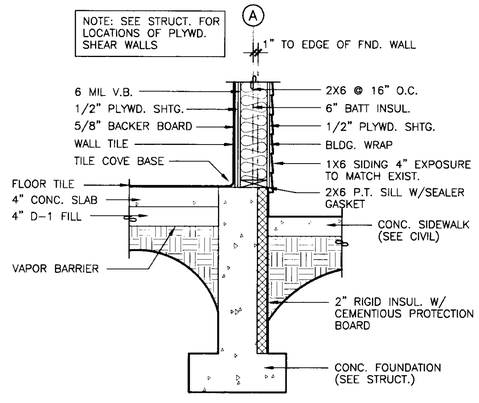
D Ridge Vent

3" = 1'-0"



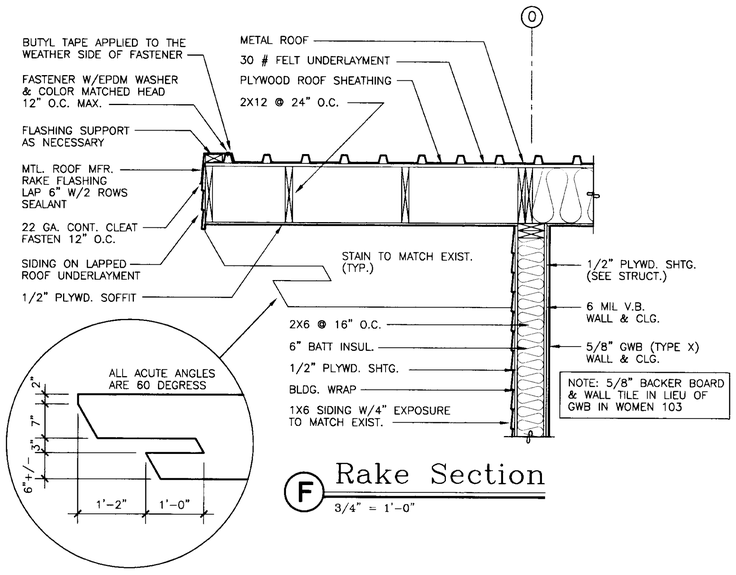
Roof Plan

1/8" = 1'-0"



E Wall Section

3/4" = 1'-0"

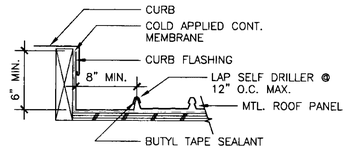


F Rake Section

3/4" = 1'-0"

SNOW GUARDS CRITERIA (BY BHP STEEL)

ROOF FASTNERS - UBC CRITERIA
WIND = 100 MPH, EXPOSURE=C, BLDG. HT. = 15'
SUBSTRATE: 3/4" PLYWOOD
PRESSURE COEFFICIENTS
CE = 1.13, QS = 25.6, IW = 1, & CQ = 1.3/3.1
P = 38.19 PSF GENERAL & 91.08 PSF @ DISCONTINUITIES
USING (2) - #10X1" TYPE A SCREWS
= #1042 UPLIFT ULTIMATE
GENERAL FIELD SPACING 1'-4" X 4'-0"
UPLIFT = 203.70# S.F. = 5.12
SPACING @ DISCONTINUITY 1'-4" X 3'-0"
UPLIFT = 364.31# S.F. = 2.86
FOR 3.30 FT. FROM EAVE, RIDGE AND GABLE ENDS
OR 2 ROWS OF CLIPS FROM GABLE END



G Curb Flashing (Side)

1-1/2" = 1'-0"

Graphic Scale: (FEET)

0 1 4 6 8 16

NOTE: SCALE 1/4" = 1'-0" AT 22" X 34" SHEET ONLY.

A.E. Rogers ARCHITECTS
P.O. Box 34401 • Juneau, Alaska 99803
Tele 907.789.7589 Fax 907.789.1638

Alaska Marine Highway System
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PETERSBURG TERMINAL BUILDING EXPANSION
1100 S. Nordic Drive
Petersburg, Alaska 99833

Revision	
Mk	Date

Drawn AER
Checked AER
Date 16 AUGUST 1999

STATE OF ALASKA 49th Alan E. Rogers No. A-5582 REGISTERED PROFESSIONAL ARCHITECT

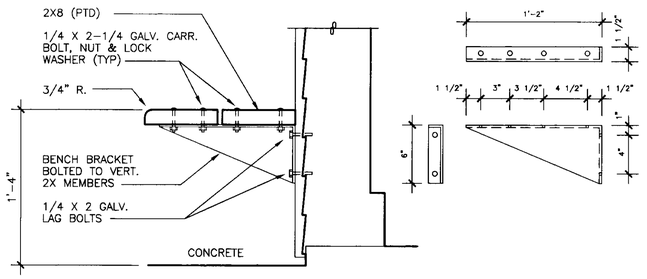
Proj. No. 98009A

Title
BLDG & WALL SECTIONS
ROOF PLAN

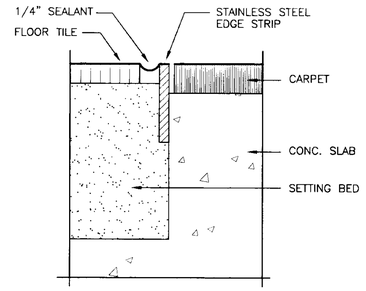
A4 OF 7

Sheet 6 of 50

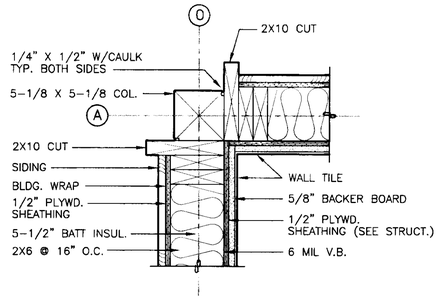
D:\PROJECTS\98009A\CD-45.DWG



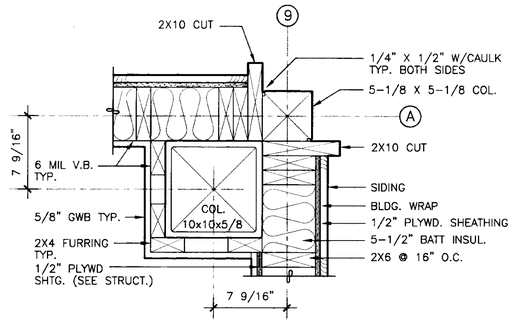
A Bench Bracket Detail
1-1/2" = 1'-0"



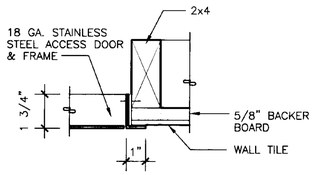
B Floor Tile Edge
1" = 1"



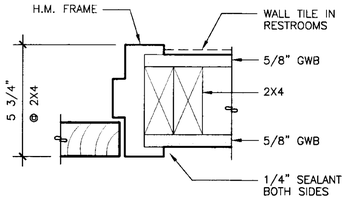
C Corner Detail
1-1/2" = 1'-0"



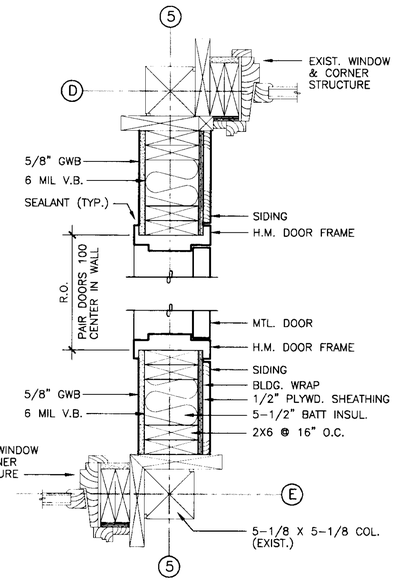
D Corner Detail
1-1/2" = 1'-0"



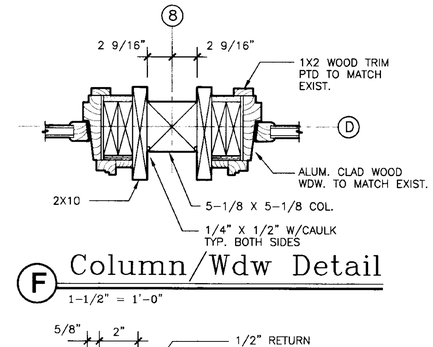
H Panel Jamb/Head
3" = 1'-0"



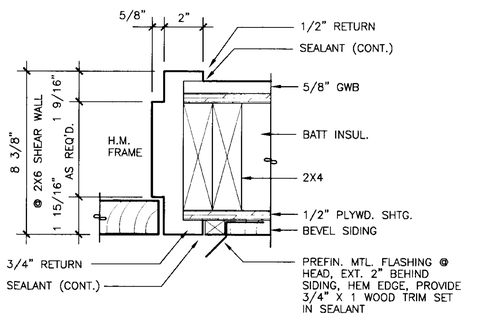
J Door Jamb/Head
3" = 1'-0"



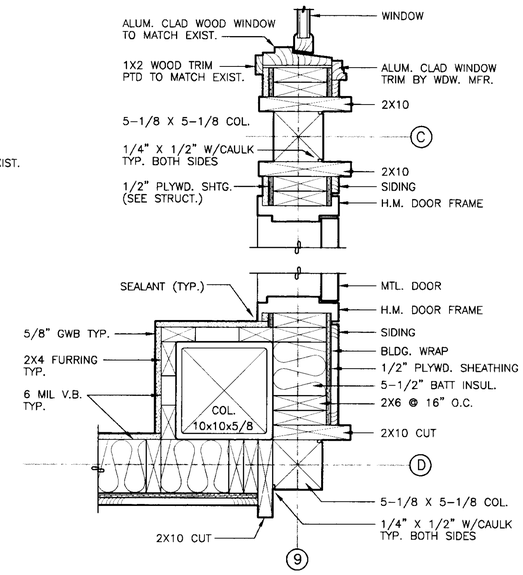
E Corner Detail
1-1/2" = 1'-0"



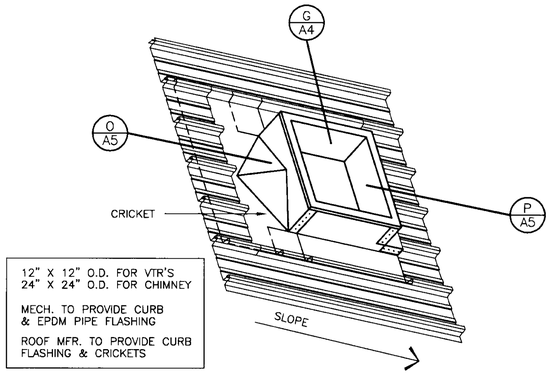
F Column/Wdw Detail
1-1/2" = 1'-0"



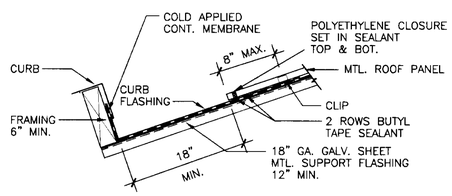
M Door Jamb/Head
3" = 1'-0"



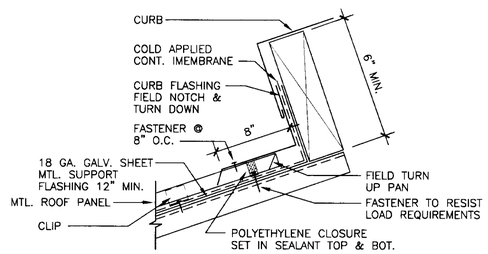
G Corner Detail
1-1/2" = 1'-0"



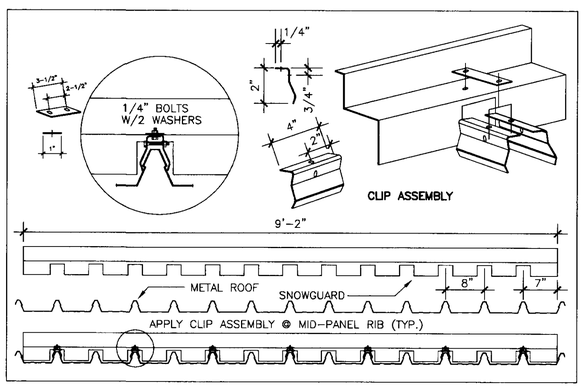
K Roof Penetration
3/4" = 1'-0"



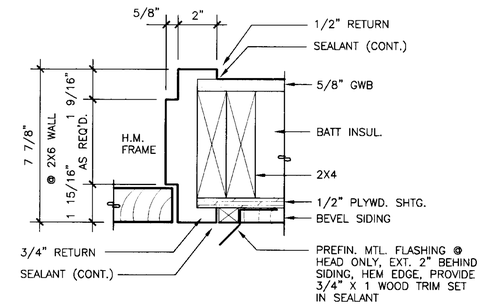
O Curb Flashing (Uphill)
1-1/2" = 1'-0"



P Curb Flashing (Downhill)
1-1/2" = 1'-0"



L Roof Snowguard
3/4" = 1'-0"



N Door Jamb/Head
3" = 1'-0"

Graphic Scale: (FEET)

0 1 4 6 8 16

NOTE: SCALE 1/4" = 1'-0" AT 22" X 34" SHEET ONLY.

A.E. Rogers
ARCHITECTS
P.O. Box 34401 • Juneau, Alaska 99803
Tele 907.789.7589 Fax 907.789.1638

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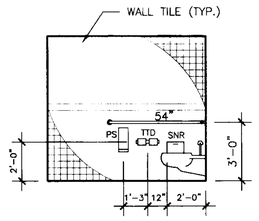
STATE OF ALASKA 49th Alan E. Rogers No. A-5582 REGISTERED PROFESSIONAL ARCHITECT

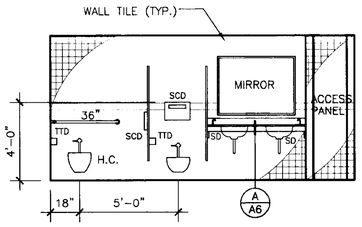
Proj. No. 98009A
Title DETAILS

A5 OF 7
Sheet 7 of 50

D:\PROJECTS\98009A\CD-45.DWG



1 Women 103
1/4" = 1'-0"



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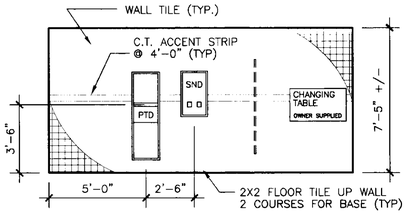

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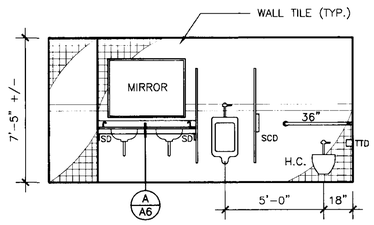

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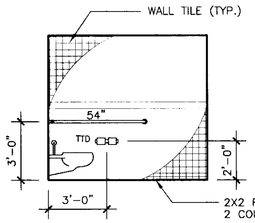

2 Men 102
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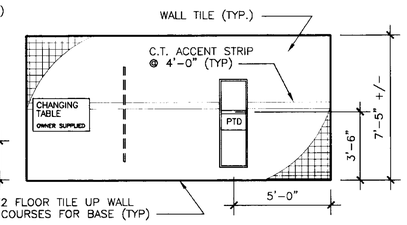
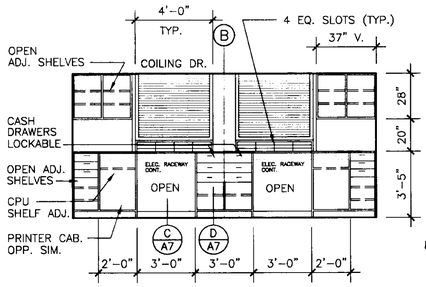
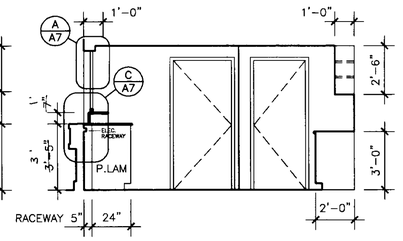


3 Men 102
1/4" = 1'-0"



1 Office 101
1/4" = 1'-0"



2 Office 101
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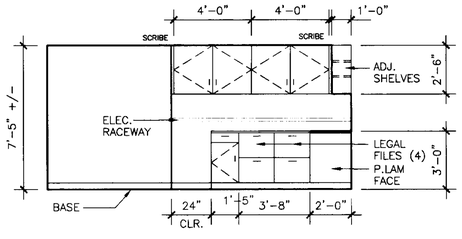
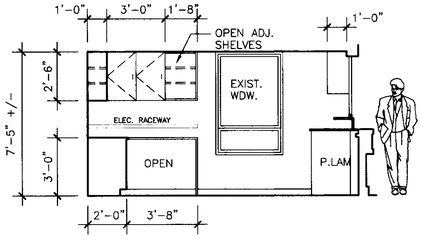


3 Office 101
1/4" = 1'-0"



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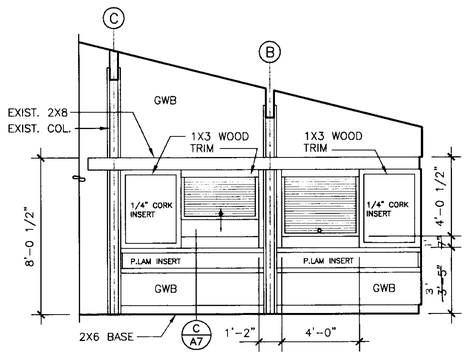
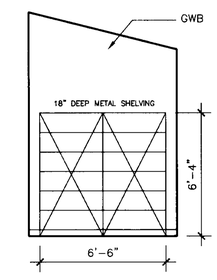
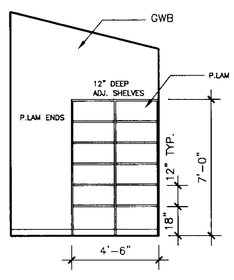


1 Waiting 100
1/4" = 1'-0"



1 Stor. 108
1/4" = 1'-0"



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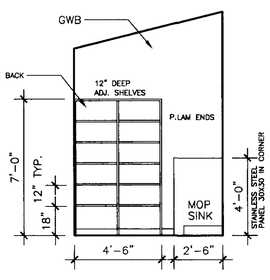

2 Stor. 107
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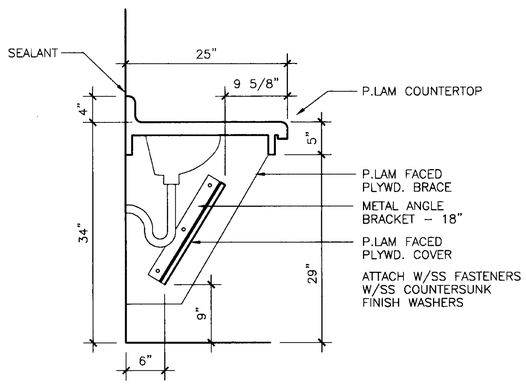
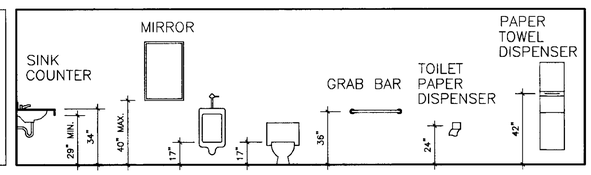


A Lav Counter (Typ.)
1" = 1'-0"

RESTROOM ABBREVIATIONS

CS	CHILD SEAT
GB	GRAB BARS
HC	ACCESSIBLE
PS	PURSE SHELF
PTD	PAPER TOWEL DISPENSER
SCD	SANITARY COVER DISPENSER
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
TTD	TOILET TISSUE DISPENSER

Fixture Heights For Accessibility



Graphic Scale: (FEET)

0 1 4 6 8 16

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A.E. Rogers
ARCHITECTS
P.O. Box 34401 • Juneau, Alaska 99803
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Drawn AER

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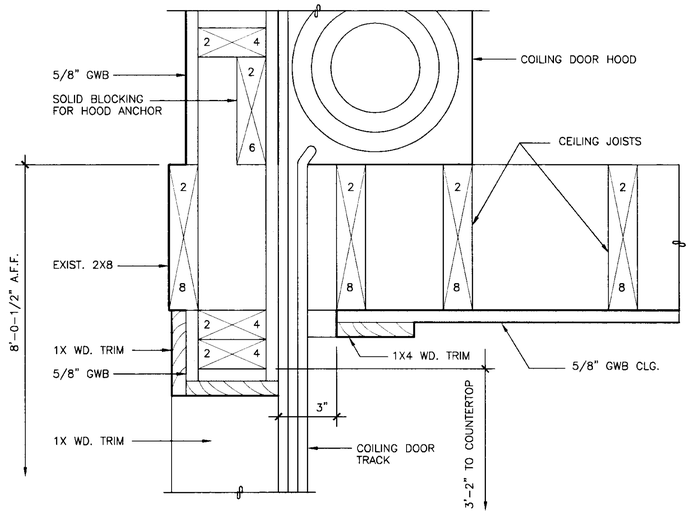
STATE OF ALASKA
Alan E. Rogers
No. A-5562
REGISTERED PROFESSIONAL ARCHITECT

Proj. No. 98009A

Title
INTERIOR ELEVATIONS

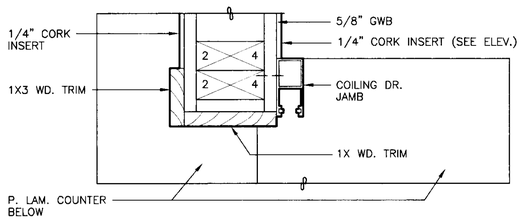
A6 OF 7

Sheet 8 of 50



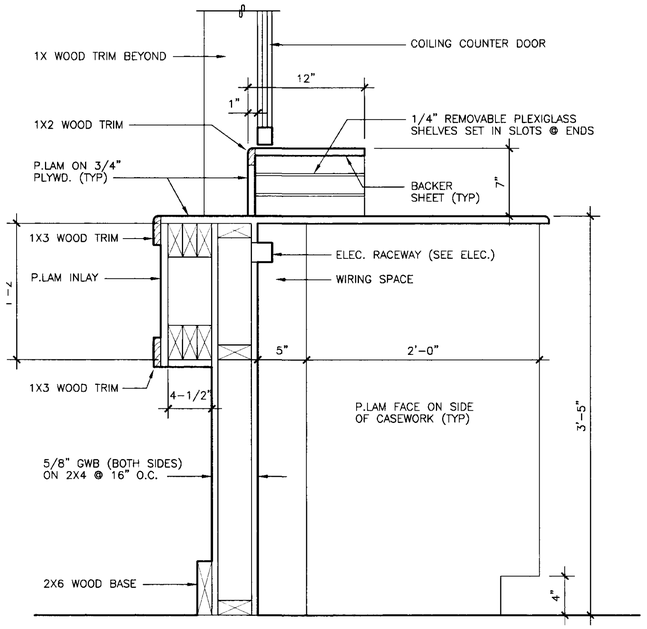
A Coiling Door Head

3" = 1'-0"



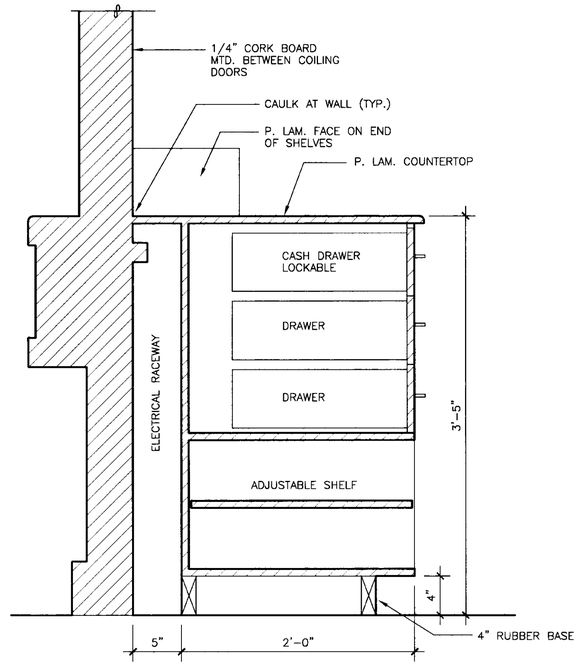
B Coiling Door Jamb

3" = 1'-0"



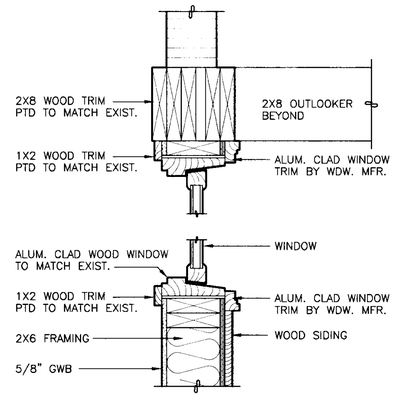
C Casework Detail

1-1/2" = 1'-0"



D Casework Detail

1-1/2" = 1'-0"



E Window Detail

1-1/2" = 1'-0"

Graphic Scale: (FEET)

0 1 4 6 8 16

NOTE: SCALE 1/4" = 1'-0" AT 22" X 34" SHEET ONLY.

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Proj. No. 98009

Title
DETAILS

A7 OF 7

Sheet 9 of 50

ABBREVIATIONS

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ALT	ALTERNATE
APPROX	APPROXIMATE (LY)
ARCH	ARCHITECT (URAL)
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAIL
BOF	BOTTOM OF FOOTING
BRG	BEARING
BTM	BOTTOM
BTWN	BETWEEN
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
d	PENNY
DBL	DOUBLE
DEPT	DEPARTMENT
DIA OR #	DIAMETER
DIAPH	DIAPHRAGM
DIM	DIMENSION
DP	DEEP
EA	EACH
EF	EACH FACE
EL	ELEVATION (HEIGHT)
EN	EDGE NAIL
ENGR	ENGINEER
EQ	EQUAL
EW	EACH WAY
EXIST OR (E)	EXISTING
EXT	EXTERIOR
FDN	FOUNDATION
FF	FINISH FLOOR
FN	FIELD NAIL
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FRMG	FRAMING
FT OR '	FOOT (FEET)
FTG	FOOTING
GLB	GLUED LAMINATED BEAM
GR	GRADE
GYP	GYPSUM
HD	HOLDOWN
HDR OR H	HEADER
HGR	HANGER
HORIZ	HORIZONTAL
HT	HEIGHT
JST	JOIST
JT	JOINT
LB OR #	POUND(S)
LDGR	LEDGER
LF	LINEAR FOOT (FEET)
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
ORIG	ORIGINAL
PERP OR ⊥	PERPENDICULAR
℄	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
R	RADIUS
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
SCH	SCHEDULE
SF	SQUARE FEET (FOOT)
SHTG	SHEATHING
SIM	SIMILIAR
SN	SHEAR NAIL
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
STD	STANDARD
STGR	STAGGER
STL	STEEL
STRUC	STRUCTURAL
T&B	TOP AND BOTTOM
TEMP	TEMPORARY OR TEMPERATURE
T&G	TONGUE AND GROOVE
THK	THICKNESS/THICK
THR	THREADED
THRU	THROUGH
TN	TOE NAIL
TOW	TOP OF WALL
TS	STRUCTURAL TUBE STEEL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UON	UNLESS OTHERWISE NOTED
V OR VERT	VERTICAL
WD	WOOD

DESIGN CRITERIA

ROOF SNOW LOAD: 90 PSF, PER UBC CHAPTER 16, DIVISION I (EXISTING ROOF: 70 PSF)
FLOOR LIVE LOAD: – 100 PSF
WIND: 100 MPH, EXPOSURE C
SEISMIC: ZONE 2B WITH Z = 0.2, I = 1.0, SOIL PROFILE= Sc, Ca = 0.24, AND
Rw = 5.5 FOR PLYWOOD SHEAR WALLS AND 2.2 FOR STEEL WIND COLUMNS
UNIFORM BUILDING CODE: 1997 EDITION

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT/ENGINEER SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.
2. ALL OMISSIONS AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF, AND A SOLUTION GIVEN BY, THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
3. IN CASE OF CONFLICT, NOTES AND DETAILS OF THESE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE "GENERAL NOTES" AND/OR "STANDARD DETAILS."
4. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.
5. WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE STRUCTURAL DRAWINGS.
6. ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY IN CONFORMANCE TO THE PROVISIONS OF THE 1997 EDITION OF THE "UNIFORM BUILDING CODE" (UBC), AND STANDARDS REFERENCED THEREIN.
7. PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLOCK-OUTS, ETC., SHALL NOT BE PLACED IN SLABS, FOUNDATIONS, ETC., NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS, UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS.
8. IN AREAS TO BE EXCAVATED, THE CONTRACTOR SHALL DETERMINE THE LOCATIONS OF EXISTING UTILITY SERVICES PRIOR TO EXCAVATION.
9. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
10. SHOP DRAWINGS:
    - A. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION.
    - B. SHOP DRAWINGS SHALL BE COMPLETE, CHECKED, AND APPROVED BY THE GENERAL CONTRACTOR BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION OF DIMENSIONS AND DETAILS FOR SUB-CONTRACTORS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF THERE ARE ANY DISCREPANCIES IN THE DIMENSIONS OR DETAILS.
    - C. SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING ITEMS:
      REINFORCING STEEL
      CONCRETE MIX DESIGN
      STRUCTURAL STEEL
      GLUE-LAMINATED TIMBERS
11. SPECIAL INSPECTION:
    - A. SPECIAL INSPECTIONS ARE REQUIRED FOR THE FOLLOWING TYPES OF WORK IN CONFORMANCE WITH UBC SECTION 1701: CONCRETE
      REINFORCING STEEL
      ANCHOR BOLTS
      HOLDOWN BOLTS
    - B. SPECIAL INSPECTIONS WILL BE CONDUCTED BY THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
    - C. THE CONTRACTOR SHALL GIVE THE ENGINEER SUITABLE NOTIFICATION SO THAT HE CAN SCHEDULE THE REQUIRED SPECIAL INSPECTIONS OF THE ABOVE LISTED ITEMS OF WORK.

FOUNDATION

1. SOIL DESIGN INFORMATION:
    - A. A SPECIFIC SOILS REPORT WAS NOT DONE FOR THIS PROJECT.
    - B. THE DESIGN SOIL PRESSURE HAS BEEN ASSUMED TO BE 2,000 PSF, BASED ON CLASS 3 MATERIAL IN UBC TABLE 18-I-A. IT WILL NEED TO BE VERIFIED PER NOTE NO. 2, BELOW.
    - C. THE DESIGN SOIL PRESSURE MAY BE INCREASED 1/3 FOR WIND AND SEISMIC LOADING.
    - D. BOTTOM OF FOOTINGS SHALL BE AT LEAST 36" BELOW LOWEST ADJACENT EXTERIOR FINISH GRADE. BOTTOM OF FOOTINGS ARE INTENDED TO LINE UP WITH THE BOTTOM OF THE EXISTING FOOTINGS.
2. PRIOR TO SETTING FORMS AND/OR REINFORCING STEEL FOR FOUNDATIONS THE ENGINEER SHALL VERIFY THAT EXISTING SOILS COMPLY WITH DESIGN REQUIREMENTS.
3. ALL SOIL COMPACTION AND SITE PREPARATION WORK SHALL BE PERFORMED UNDER THE DIRECT OBSERVATION OF THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
4. THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT AND TRUE TO LINE WITH ALL LOOSE MATERIAL AND STANDING WATER REMOVED BEFORE CONCRETE IS PLACED.
5. ALL SOIL AND APPROVED FILL MATERIAL UNDER CONCRETE FOOTINGS AND SLABS AND ALL BACKFILL MATERIALS SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T 180, METHOD D.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO EMPLOY THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO ENSURE THAT THE SPECIFIED COMPACTION DENSITIES ARE ACHIEVED.
7. BACKFILL FOR ALL FOUNDATION WALLS SHALL BE PERVIOUS MATERIAL AND SHALL NOT BE PLACED UNTIL CONCRETE RETAINING MEMBERS HAVE BEEN IN PLACE A MINIMUM OF 14 DAYS OR HAVE OBTAINED 75% OF THE DESIGN STRENGTH.
8. PRIOR TO BACKFILLING, PROVIDE TEMPORARY SHORING FOR ALL WALLS RETAINING EARTH, UNLESS OTHERWISE NOTED.

REINFORCED CONCRETE

1. REINFORCED CONCRETE SHALL CONFORM TO THE FOLLOWING;
    - A. THE MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE 3,000 PSI.
    - B. THE MAXIMUM SLUMP SHALL BE 4 INCHES.
    - C. THE MINIMUM CEMENT CONTENT SHALL BE SIX SACKS PER C.Y. OF CONC.
    - D. SLABS AND OTHER FLATWORK SHALL BE AIR ENTRAINED, HAVE A MAXIMUM SLUMP OF 3 INCHES AND A MAXIMUM WATER/CEMENT RATIO OF 0.35.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
3. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
4. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
5. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES SHALL COMPLY WITH ASTM A494. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.
6. READY-MIX CONC. SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
7. SLEEVES, PIPES, OR CONDUITS SHALL NOT BE PLACED THROUGH CONTINUOUS OR SPREAD FOOTINGS, GRADE BEAMS, OR TIE BEAMS.
8. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 INCH, UNLESS OTHERWISE NOTED.
9. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR GROUNDS REQUIRED TO BE CAST IN THE CONCRETE AND FOR EXTENT OF DEPRESSIONS, CURBS, AND RAMPS.
10. ALL VERTICAL SURFACES OF CONCRETE ABOVE FINISHED GRADE SHALL BE FORMED.
11. CONSTRUCTION JOINTS SHALL BE ADEQUATELY KEYED. THEIR LOCATIONS AND DETAILS, WHEN NOT SHOWN ON THE PLANS, SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
12. CONCRETE PLACEMENTS SHALL BE CONTINUOUS BETWEEN CONSTRUCTION JOINTS. CONSTRUCTION JOINTS SHALL BE ADEQUATELY KEYED. THEIR LOCATIONS AND DETAILS, WHEN NOT SHOWN ON THE PLANS, SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.

REINFORCING STEEL

1. BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615, INCLUDING SUPPLEMENT S1: #3: GRADE 40, #4 AND LARGER: GRADE 60.
2. DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-89, UNLESS OTHERWISE NOTED.
3. LAPS AT BAR SPLICES IN CONCRETE CONSTRUCTION SHALL BE CLASS A, B, OR C IN ACCORDANCE WITH CHAPTER 12 OF ACI 318-89, UNLESS OTHERWISE NOTED.
4. VERTICAL BARS IN CONCRETE WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL, UNLESS OTHERWISE NOTED ON THE DETAILS.
5. ALL REINFORCING STEEL SHALL BE SECURELY TIED IN POSITION PRIOR TO PLACING CONCRETE OR GROUT.
6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
7. LAPS OF WELDED WIRE FABRIC AT SPLICES SHALL BE IN CONFORMANCE WITH ACI 318-83 (REVISED 1986), BUT NOT BE LESS THAN 8 INCHES.
8. BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
9. SEE THE "REINFORCED CONCRETE" NOTES FOR THE REQUIRED CONCRETE COVER FOR CAST-IN-PLACE CONCRETE.
10. REINFORCING STEEL DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY CRSI.
11. WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.

STRUCTURAL STEEL

1. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," 1989 EDITION, PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
2. MATERIALS AND WORKMANSHIP FOR FABRICATION AND ERECTION SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE," 1992 EDITION, PUBLISHED BY AISC.
3. STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATION A36. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM SPECIFICATION A500, GRADE B.
4. MACHINE BOLTS AND ANCHOR BOLTS SHALL BE GRADE "A" CONFORMING TO ASTM A307, UNLESS OTHERWISE NOTED. NUTS SHALL CONFORM TO ASTM A563, HEX GRADE A.
5. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC PROCESS AND SHALL CONFORM TO THE PROVISIONS OF AWS D1.1-96, "STRUCTURAL WELDING CODE-STEEL," PUBLISHED BY THE AMERICAN WELDING SOCIETY (AWS) AND SHALL BE PERFORMED BY WELDERS QUALIFIED UNDER THE PROCEDURES CONTAINED THEREIN.
6. FILLER METAL USED IN ARC WELDING SHALL BE IN ACCORDANCE WITH TABLE 4.1.1 OF AWS D1.1-96, "STRUCTURAL WELDING CODE-STEEL," PUBLISHED BY AWS. THE MINIMUM NOMINAL TENSILE STRENGTH FOR FILLER METAL SHALL BE 70 KSI.
7. STEEL SHALL BE PRIMED WITH A SHOP APPLIED PRIMER EXCEPT AS FOLLOWS:
    - A. STEEL TO BE EMBEDDED IN CONCRETE.
    - B. SURFACES WITHIN 2 INCHES OF FIELD WELD LOCATIONS.
8. NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 7,000 PSI PER ASTM C-109. GROUTING OF BASE PLATES PRIOR TO PLUMBING OF COLUMNS SHALL NOT BE PERMITTED.

STRUCTURAL WOOD

1. EXCEPT AS NOTED IN NOTE 2 BELOW, SAWN WOOD MEMBERS SHALL BE HEM FIR NO. 2 OR BETTER, UNLESS OTHERWISE NOTED, S4S, CONFORMING TO THE "UNIFORM BUILDING CODE" (UBC) STANDARDS 23-1, AND SHALL BE GRADE MARKED BY A RECOGNIZED GRADING AGENCY APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO).
2. EXTERIOR SAWN WOOD MEMBERS SHALL BE WESTERN CEDAR, SELECT STRUCTURAL, OR OTHER GRADE THAT EXCEEDS THE STRESSES FOR HEM FIR NO. 2 NOTED IN NOTE 1 ABOVE.
3. SHEATHING SHALL BE PLYWOOD OR ORIENTED STRAND BOARD; SHALL BE APA RATED SHEATHING; SHALL CONFORM TO THE REQUIREMENTS OF UBC STANDARD 23-2 & 23-3; SHALL BE OF THICKNESS AND GRADE AS NOTED ON THE STRUCTURAL DRAWINGS; AND SHALL BE STAMPED WITH THE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION.
4. FRAMING ANCHORS, STRAPS, JOIST HANGERS, ETC., SHALL BE AS MANUFACTURED BY "SIMPSON COMPANY" OR AN APPROVED EQUAL.
5. BOLTS SHALL CONFORM TO ASTM A307. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A563, HEX GRADE A.
6. ALL BOLT HEADS, NUTS, AND LAG SCREWS BEARING ON WOOD SHALL HAVE CUT WASHERS, UNLESS OTHERWISE NOTED.
7. BOLT HOLES IN WOOD SHALL BE DRILLED 1/32" LARGER THAN THE NOMINAL BOLT DIAMETER.
8. NAILING OF SAWN WOOD MEMBERS SHALL BE WITH COMMON NAILS, UNLESS OTHERWISE NOTED. WHERE NOT SHOWN ON THE DRAWINGS, NAILING SHALL CONFORM TO TABLE 23-I-Q OF THE UBC.
9. DIAPHRAGM NAILING SHALL CONFORM TO TABLE 23-I-J-1 AND 23-I-K-1 OF UBC (COMMON NAILS) WITH NOMENCLATURE DEFINED AS FOLLOWS:
   BN = NAILING AT DIAPHRAGM BOUNDARIES, CONTINUOUS PANEL EDGES, AND AT EDGES OF OPENINGS.
   EN = EDGE NAILING
   FN = FIELD NAILING
10. IN HORIZONTAL DIAPHRAGMS OR VERTICAL SHEAR WALLS, NO PANEL LESS THAN 24" WIDE SHALL BE USED UNLESS ALL EDGES ARE SUPPORTED ON FRAMING OR BLOCKING.
11. WOOD MEMBERS SHALL BE ERECTED WITH THE NATURAL CAMBER UP.
12. ALL NAILS LARGER THAN 16d AND ALL NAILING TENDING TO CAUSE SPLITTING OF WOOD MEMBERS, SHALL BE INSTALLED IN PRE-DRILLED HOLES.
13. CUTTING, NOTCHING, OR DRILLING OF BEAMS/JOISTS/POSTS TO BE PERMITTED ONLY AS DETAILED OR APPROVED BY THE ENGINEER.
14. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY WHICH IS IN CONTACT WITH EARTH, SHALL BE PRESSURE TREATED IN CONFORMANCE WITH THE WESTERN WOOD PRESERVERS INSTITUTE. SURFACES THAT ARE DAMAGED OR EXPOSED BY CUTTING, DRILLING, OR NOTCHING SHALL BE TREATED WITH A PRESERVATIVE RECOMMENDED BY THE WESTERN WOOD PRESERVERS INSTITUTE.
15. PROVIDE BLOCKING OR BRIDGING PER SECTION 2306.7 OF THE UBC.
16. UNLESS OTHERWISE NOTED, TOP PLATES OF ALL WOOD STUD WALLS SHALL BE 2-2X (SAME DEPTH AS STUDS) LAPPED 48" MINIMUM WITH NOT LESS THAN 8-16d NAILS AT EACH SIDE OF THE LAP.
17. MOISTURE CONTENT OF WOOD AT TIME OF PLACING SHALL NOT EXCEED 19 PERCENT.

GLUE-LAMINATED TIMBERS

1. MANUFACTURE OF GLUE-LAMINATED TIMBERS SHALL BE IN CONFORMANCE WITH A190.1-1983, PUBLISHED BY AMERICAN NATIONAL STANDARDS INSTITUTE/AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (ANSI/AITC).
2. INTERIOR GLUE-LAMINATED TIMBERS SHALL BE ARCHITECTURAL APPEARANCE GRADE, USING EXTERIOR GLUE, COMBINATION SYMBOL 20F-V12.
3. GLUE-LAMINATED TIMBERS SHALL BE FABRICATED IN A PLANT WITH AN APPROVED QUALITY CONTROL SYSTEM, LICENSED BY AITC.
4. MANUFACTURER OF GLUE-LAMINATED TIMBERS SHALL STAMP MEMBERS WITH A QUALITY MARK OF THE AITC INSPECTION ORGANIZATION AND SHALL SUBMIT AN AITC INSPECTION CERTIFICATE TO THE BUILDING INSPECTION DEPARTMENT AND THE ENGINEER PRIOR TO INSTALLATION.

R & M ENGINEERING, INC.
6205 Glacier Highway
Juneau, Ak. 99801
(907) 780-6060
Fax 780-4611
rmjuneau@ptialaska.net

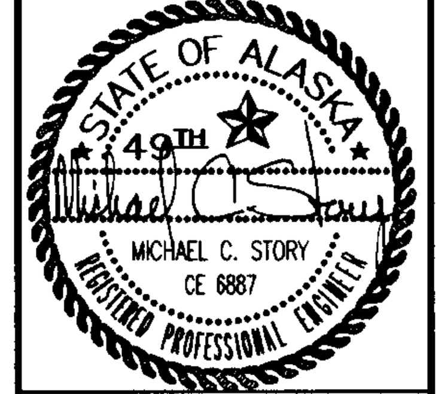
(907) 789-7599
(FAX) 789-1838
A. E. ROGERS
A R C H I T E C T S

Alaska Marine Highway System
State No. 75382
Fed. No. STP-0937(25)

PETERSBURG TERMINAL BUILDING EXPANSION
1100 S. Nordic Drive
Petersburg, Alaska 99833

Revision	
Mk	Date

Drawn MCS
Checked MCS
Date 16 AUGUST 1999



Proj. No. 991307
Title
STRUCTURAL NOTES

S1 OF 8

FILE: P-173-1

R&M\991307\S1.DWG\1:2 PLOT\8-19-99\8:40 AM - KAP

PLAN NOTES:

1. VERIFY ALL DIMENSIONS, FLOOR ELEVATIONS, DEPRESSIONS, GUARDRAILS, ETC. w/ ARCHITECTURAL.
2. REF. ARCH'L, MECH'L, ELECT'L, PLUMBING, AND CIVIL DWGS. FOR DUCTS, CHASES, PIPES, ETC.
3. REF. S1 FOR GENERAL NOTES AND DESIGN CRITERIA.
4. SEE S3 FOR STD. DETAILS.
5. WALLS (OR PORTIONS OF WALLS) NOT INDICATED ON FRAMING PLANS ARE PARTITION WALLS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND EXTENT OF PARTITION WALLS.
6. ALL SILL PLATES TO BE PRESSURE TREATED.
7. WHERE SHEAR WALLS ARE INDICATED TO BE SHEATHED ONE SIDE, MARK ▷ POINTS TO WHICH SIDE. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS.

HOLDOWN SCHEDULE				
HOLDOWN ANCHOR	ANCHOR DIA	EMBED LENGTH	HOLDOWN POST (UON)	COMMENTS
PHD2	5/8"	10"	(2)2x	DRILL & SET
HD15	1 1/4"	32"	6X6	BTM PLATE

1. DRILL AND SET ANCHORS SHALL USE ALL THREAD ROD AND SIMPSON "SET" HIGH STRENGTH EPOXY.
2. BOTTOM PLATE SHALL BE A 3/4" X 12" SQUARE STEEL PLATE

SHEAR WALL SCHEDULE (1)			
MARK (2)	EN (3) (EDGE NAILING)	FOUNDATION PLATE	JOINT, STUDS & BLKG (4)-(5)
'X' 4	10D @ 4"	2x	2x
* 'X' 3	10D @ 3"	3x	3x

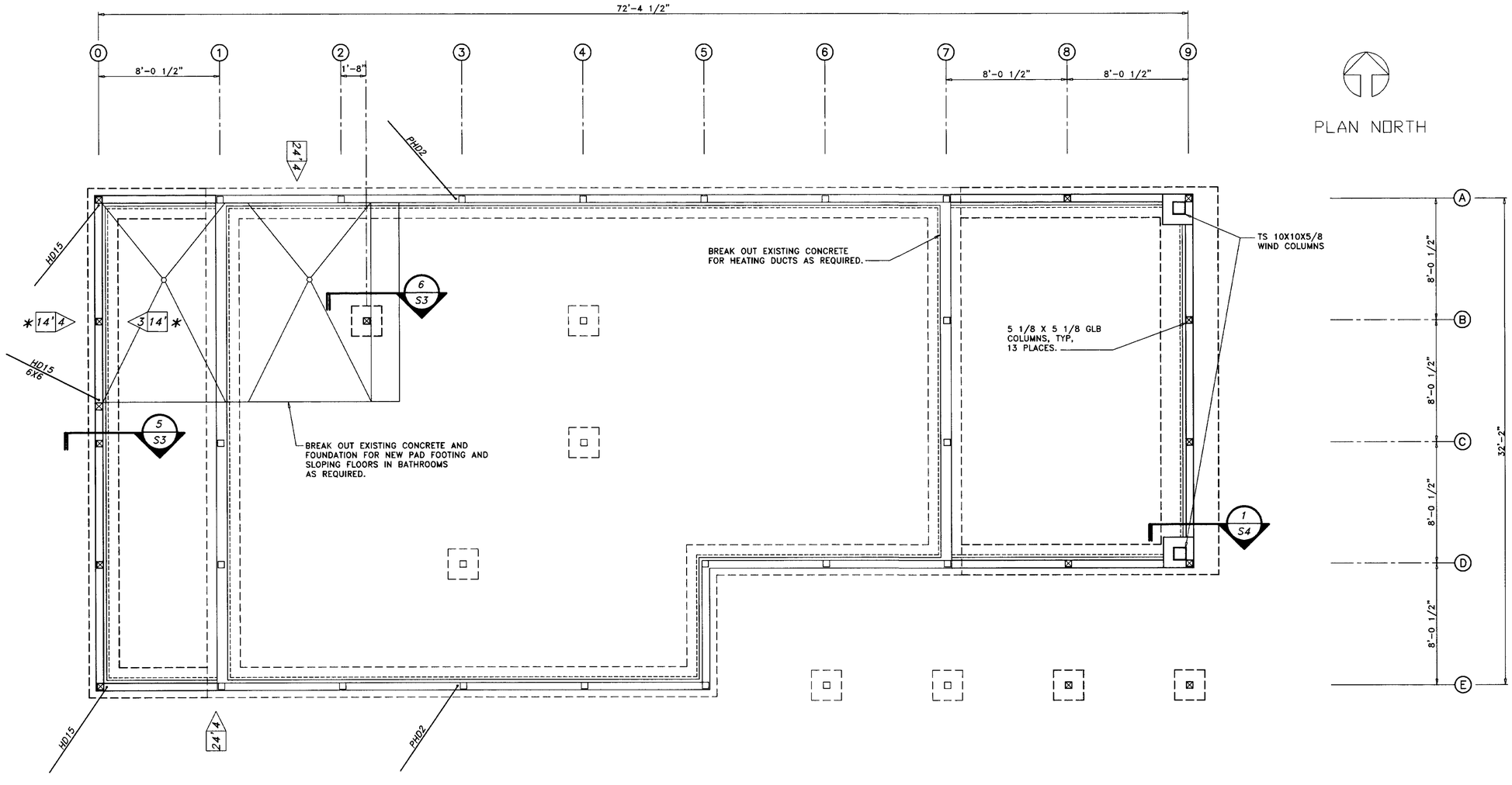
1. SHEATING SHALL BE 15/32 INCH APA RATED WITH A SPAN INDEX OF 40/20, UON.
2. 'X' INDICATES MINIMUM LENGTH OF SHEAR WALL. ARROW POINTS TO SIDE OF WALL THAT SHEATING IS NAILED TO.
3. USE COMMON WIRE NAILS.
4. END STUD AND HOLDOWN PER PLAN AND DETAILS.
5. ALL EDGES SHALL BE BLOCKED WITH FULL DEPTH BLOCKING.
6. * INDICATES 3X FRAMING.

LEGEND

- EDGE OF FOOTING BELOW GRADE
- CONCRETE STEMWALL
- ▷ = SHEARWALL PER SCHEDULE
- S/HD10 = HOLDOWN
- ⊠ POST(TYPE AND SIZE AS NOTED)
- □ POST (EXISTING)
- • HOLDOWN
- STRUCTURAL WALL ABOVE
- STRUCTURAL WALL ABOVE (EXISTING)
- LDG = LEDGER
- T.O.W.= TOP OF CONC. FOUNDATION WALL

FLOOR SLAB

4" SLAB ON GRADE OVER 8 MIL VAPOR RETARDER OVER 4" D-1.



FOUNDATION PLAN

Graphic Scale: (FEET)

0 1 4 6 8 16

NOTE: SCALE 1/4" = 1'-0" AT 22" X 34" SHEET ONLY.

R&M ENGINEERING, INC.
R & M ENGINEERING, INC.
6205 Glacier Highway
Juneau, Ak. 99801
(907) 780-6060
Fax 780-4611
rmjuneau@ptialaska.net

A. E. ROGERS
ARCHITECTS
P.O. Box 84401, Fairbanks, Alaska 99708
(907) 789-7580
(FAX) 789-1638

Alaska Marine Highway System
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1100 S. Nordic Drive
Petersburg, Alaska 99833

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Checked MCS

Date 17 AUGUST 99

STATE OF ALASKA 49TH
MICHAEL C. STORY
CE 8887
REGISTERED PROFESSIONAL ENGINEER

Proj. No. 991307

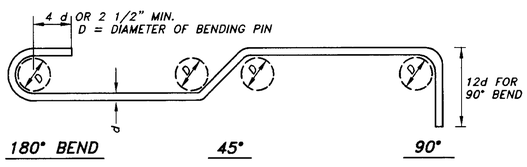
Title
FOUNDATION PLAN

S2 OF 8

Sheet 11 of 50

R&M#991307\S2.DWG\1:2 PLOT\8-19-99\11:10 AM - KAP

FILE: P-173-2

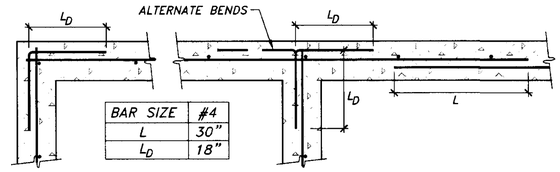


BAR SIZE	MIN. PIN DIA.
#3 THRU #8	6 BAR DIA.

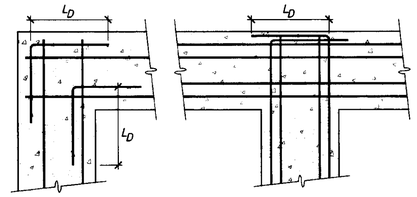
LEGEND (FOR REINF. BENDS NOT SHOWN TO SCALE)

- DENOTES 90° BEND IN THE PLANE OF THE DWG.
- DENOTES 90° BEND PERPENDICULAR TO THE PLANE OF THE DWG.
- DENOTES BEND PERPENDICULAR TO THE PLANE OF THE DWG.
- DENOTES BEND IN THE PLANE OF THE DWG.
- DENOTES OFFSET IN THE PLANE OF THE DWG.

1 STANDARD HOOKS & BENDS
NTS

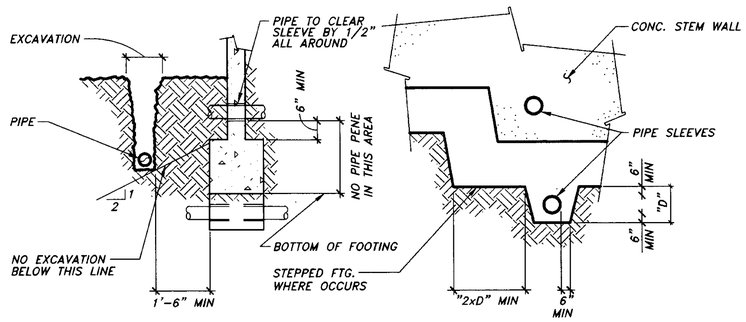


SINGLE CURTAIN @ STEM WALLS



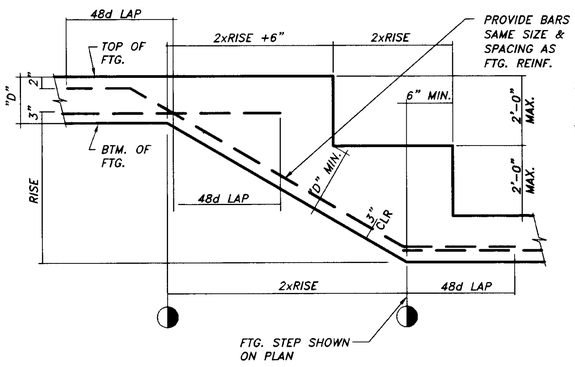
DOUBLE CURTAIN @ FTGS

2 WALL & FTG REINF @ CORNERS & INTERSECTIONS
NTS

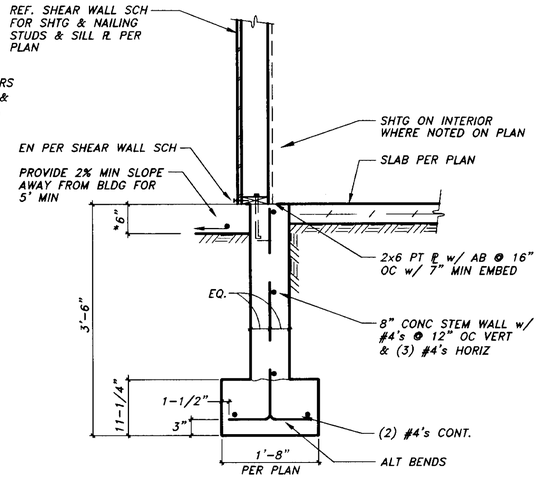


FOOTING SECTION — FOOTING ELEVATION

3 PIPES & TRENCHES @ FOUNDATIONS
NTS

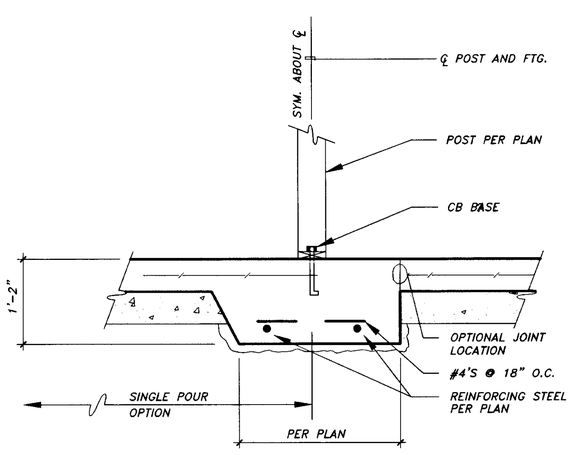


4 TYPICAL FOUNDATION STEP
NTS



5 TYPICAL EXTERIOR FOOTING
NTS

*MAY BE LESS @ WALKWAYS PER ARCH. & CIVIL



6 THICKENED SLAB DETAIL
N.T.S.

R & M ENGINEERING, INC.
6205 Glacier Highway
Juneau, Ak. 99801
(907) 780-6060
Fax 780-4611
rmjuneau@ptialaska.net

A. E. ROGERS ARCHITECTS
(907) 780-7680
(FAX) 780-1638
P.O. Box 34401, Juneau, Alaska 99803

Alaska Marine Highway System
State No. 75382
Fed. No. STP-0937(25)

PETERSBURG TERMINAL BUILDING EXPANSION
1100 S. Nordic Drive
Petersburg, Alaska 99833

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Mk	Date

Drawn MCS
Checked MCS
Date 17 AUGUST 1999

STATE OF ALASKA 49TH
MICHAEL C. STORY CE 6887
REGISTERED PROFESSIONAL ENGINEER

Proj. No. 991307
Title FOUNDATION DETAILS
.
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R&M#991307\S3.DWG\1:2 PLOT\8-19-99\11:00 AM - KAP

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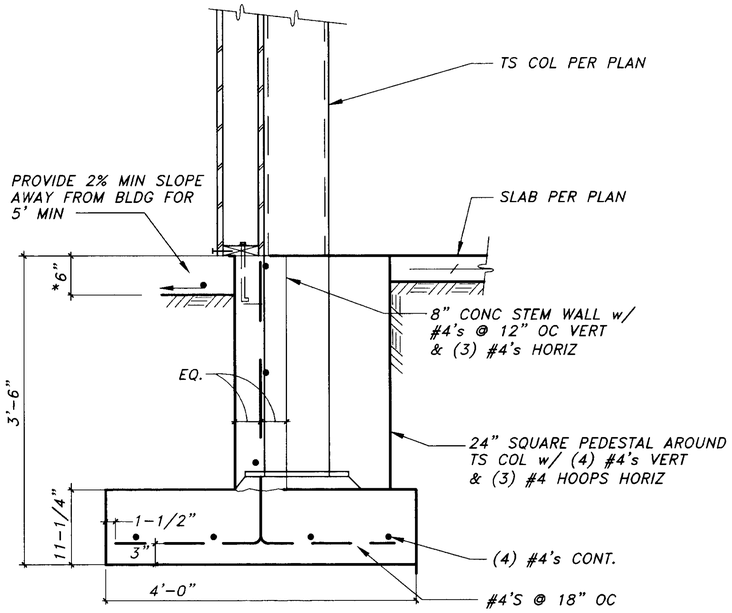

1 TYPICAL EXTERIOR FOOTING AT GRID LINE 9

NTS *MAY BE LESS @ WALKWAYS PER ARCH. & CIVIL

R & M ENGINEERING, INC.
6205 Glacier Highway
Juneau, Ak. 99801
(907) 780-6060
Fax 780-4611
rmjuneau@ptialaska.net

A. E. ROGERS
ARCHITECTS
(907) 789-7588
(FAX) 789-1838
P.O. Box 6466, Ketchikan, Alaska 99901

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FILE: P-173-4

PLAN NOTES:

1. VERIFY ALL DIMENSIONS, ELEVATIONS, DEPRESSIONS, RAILINGS, ETC. w/ ARCHITECTURAL.
2. REF. ARCH'L, MECH'L, ELECT'L, PLUMBING, AND CIVIL DWGS. FOR DUCTS, CHASES, PIPES, ETC.
3. REF. S1 FOR GENERAL NOTES AND DESIGN CRITERIA.
4. REF. S6, S7 AND S8 FOR STANDARD DETAILS.
5. WALLS (OR PORTIONS OF WALLS) NOT INDICATED ON FRAMING PLANS ARE PARTITION WALLS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND EXTENT OF PARTITION WALLS.

HEADER SCHEDULE

MARK	SIZE	REMARKS
H-1	(3)2x6	24" MAX RO, 2x @ EA FACE
H-2	6X6	–

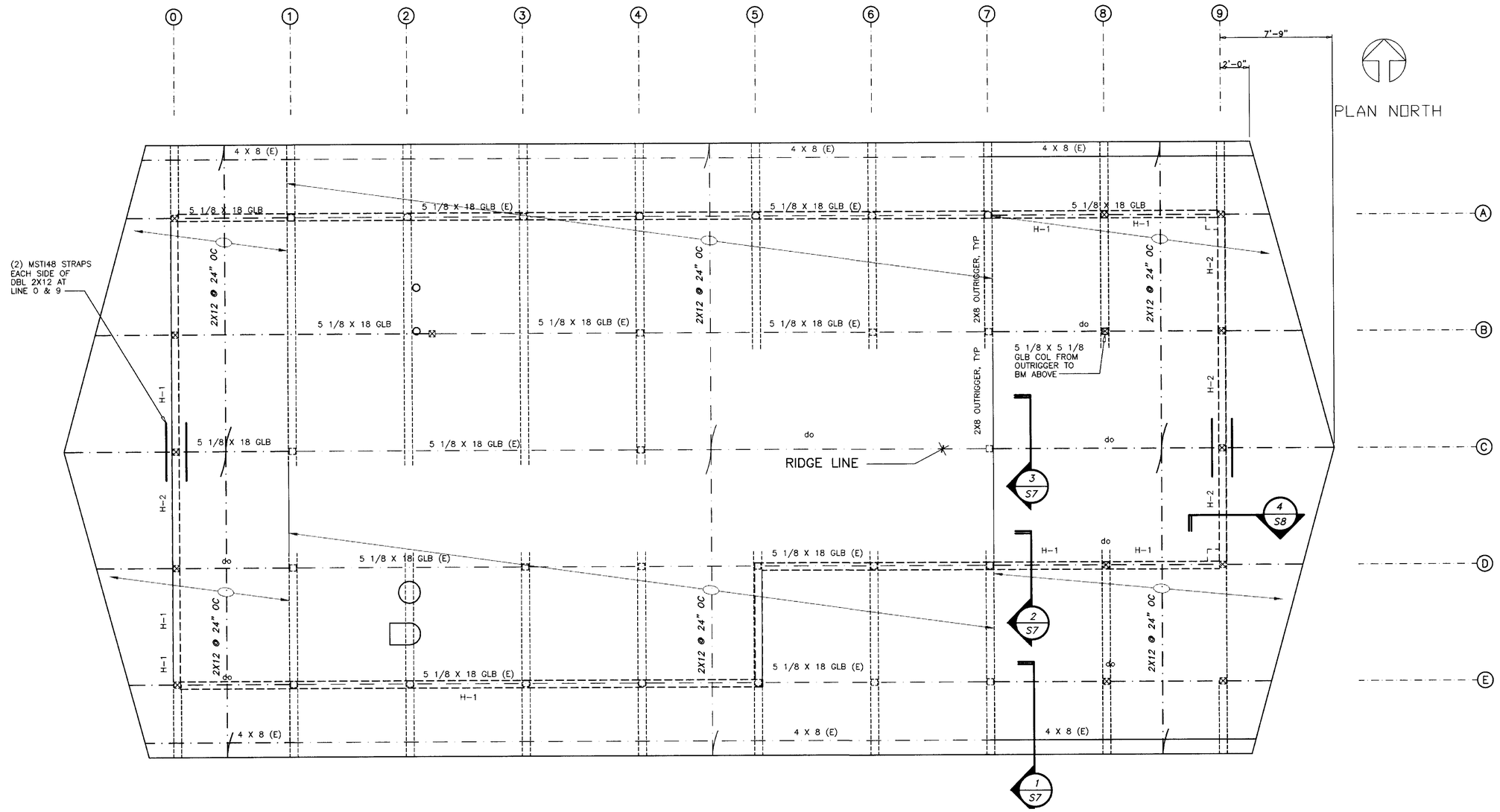
ROOF SHEATHING

ADDITIONS: 23/32" APA RATED SHEATHING w/ PANEL INDEX 48/24, NAIL w/ 10d @ 2 1/2" OC @ BOUNDARIES, 4" OC AT OTHER PANEL EDGES, AND 12" OC FIELD NAILING.

EXISTING: VERIFY 8d @ 6" OC PANEL EDGE AND 12" OC FIELD NAILING OF EXISTING 1/2" PLYWOOD. BETWEEN GRID 1 GRID 2, INCREASE BOUNDARY NAILING TO 8d @ 2 1/2" OC AND OTHER PANEL EDGES TO 4" OC. THEN ADD 1/4" CDX SHEATHING w/ 8d @ 6" OC AT PANEL EDGES AND 12" OC IN FIELD.

LEGEND

- STRUCTURAL WALL BELOW
- H- = HEADER PER SCHEDULE
- ⊠ POST BELOW
- ⊡ EXISTING POST BELOW
- do = DITTO



ROOF FRAMING PLAN

Graphic Scale: (FEET)

0 1 4 6 8 16

NOTE: SCALE 1/4" = 1'-0" AT 22" X 34" SHEET ONLY.

R&M ENGINEERING, INC.
6205 Glacier Highway
Juneau, AK. 99801
(907) 780-6000
Fax 780-4611
rmjuneau@ptialaska.net

A. E. ROGERS ARCHITECTS
(907) 780-7588
(FAX) 780-1638
P.O. Box 34401, Juneau, Alaska 99803

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CE 6887
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ROOF FRAMING PLAN

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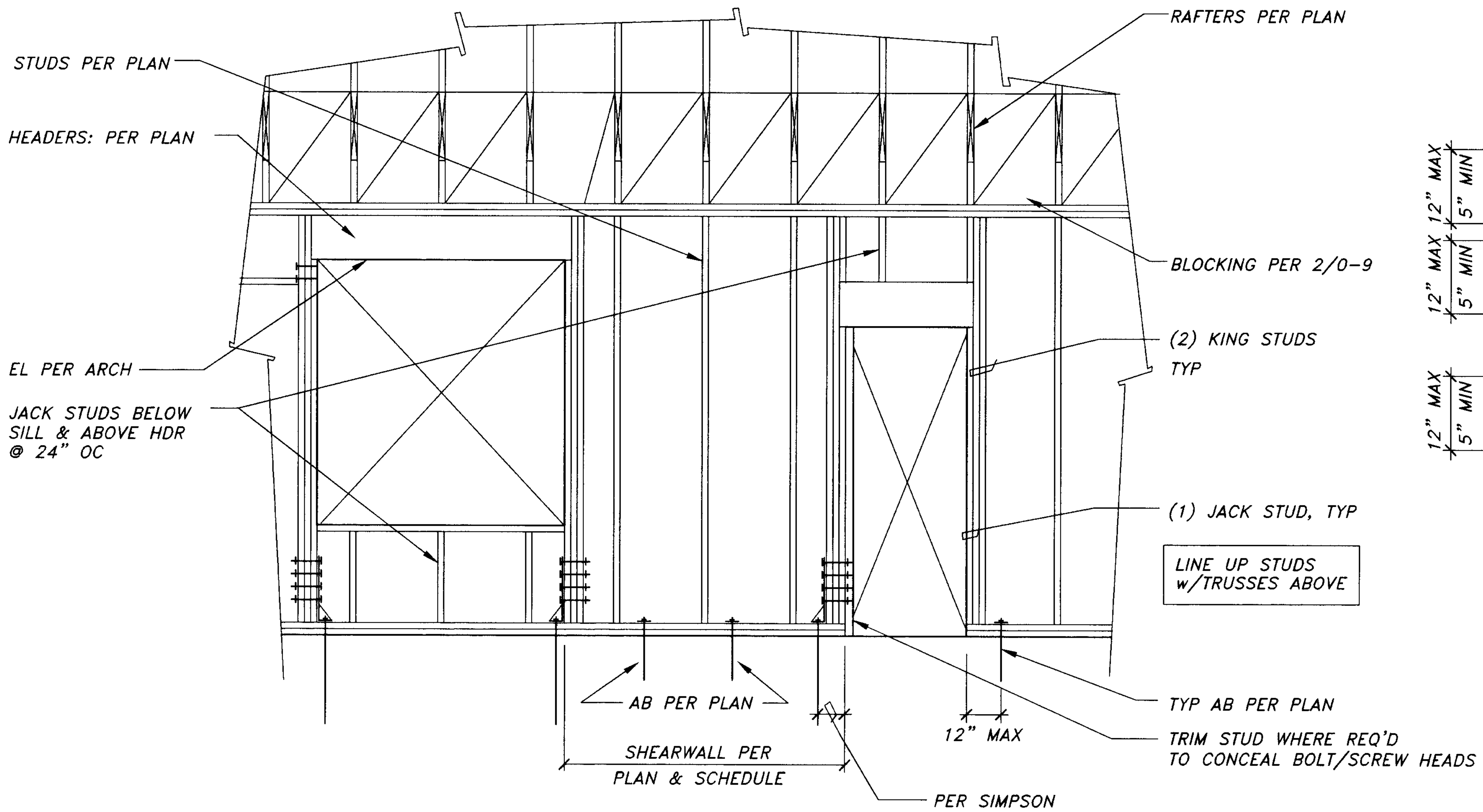
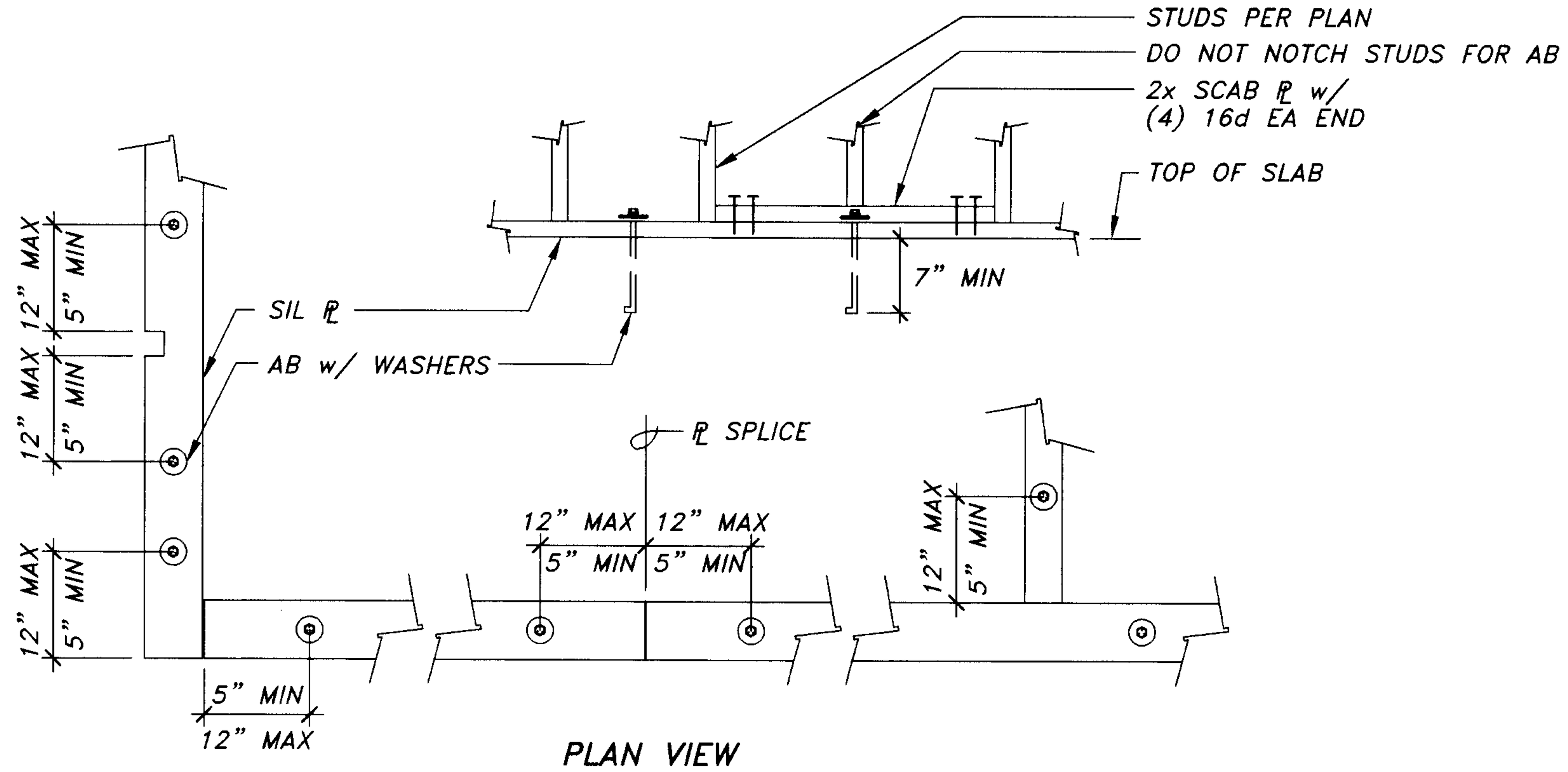


1 TYPICAL SHEAR WALL STUD FRAMING
1/4" = 1'-0"

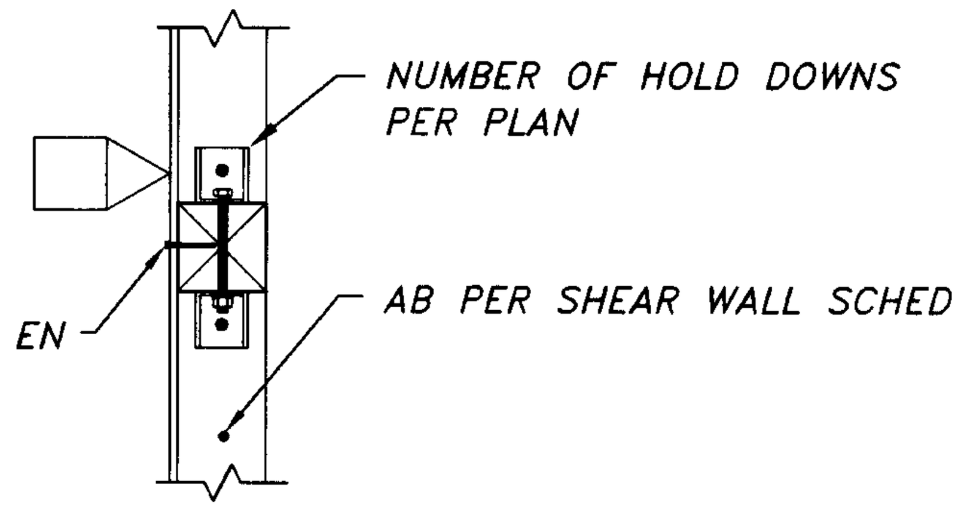


PLAN VIEW

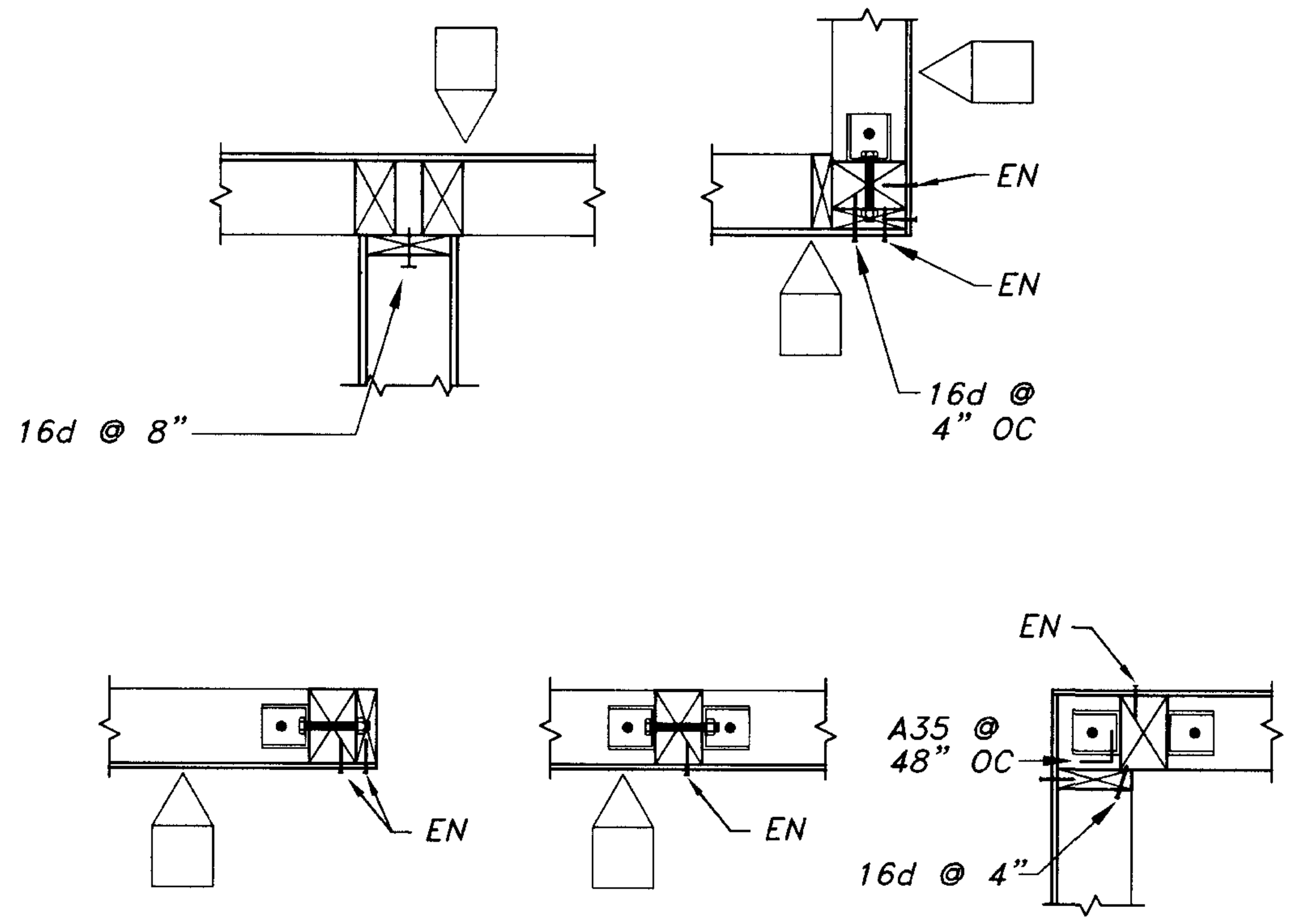
NOTES:

1. MIN. SILL BOLTING PER PLAN.
2. PROVIDE MIN 2 BOLTS PER PIECE OR SILL ℙ

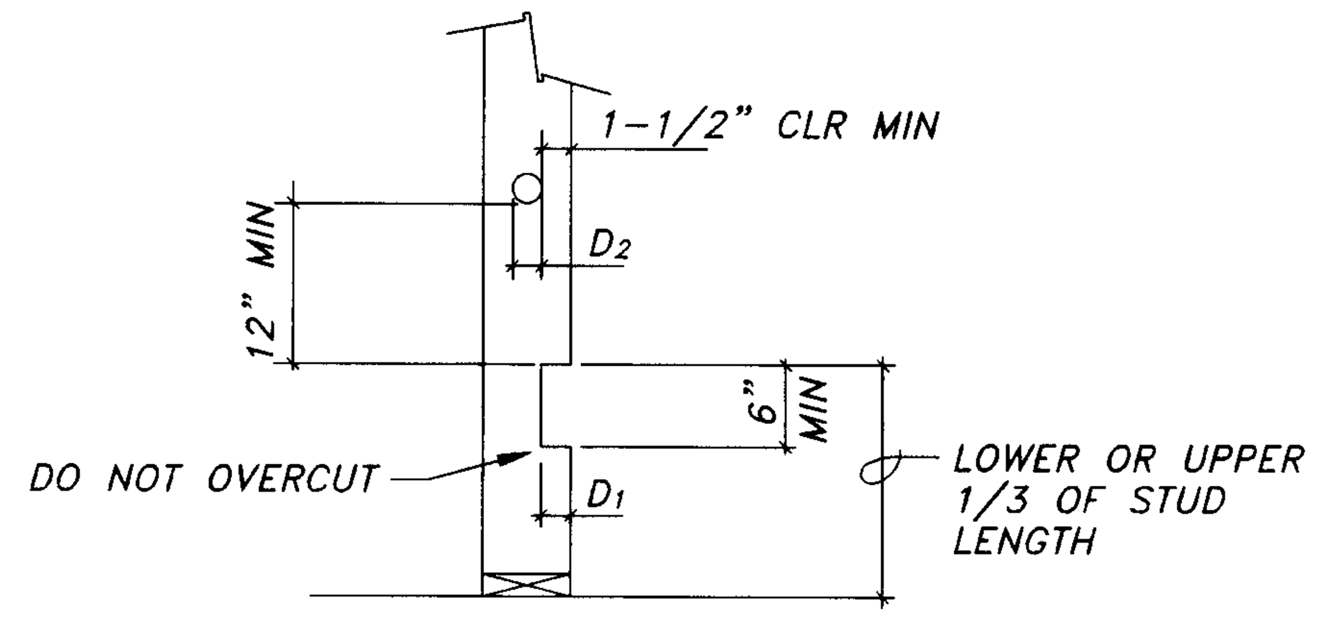
2 SILL PLATE BOLTING TO CONCRETE



3 PLAN VIEW BOLTED HOLD DOWN



4 TYPICAL SHEAR WALL INTERSECTIONS



BEARING/EXTERIOR WALLS		
STUD SIZE	MAX. D_1 (NOTCH)	MAX. D_2 (HOLE)
2x6 4x6	1-1/4"	1-1/2"
2x8	1-1/2"	2"

5 ALLOWABLE HOLES & NOTCHES IN STUDS

R & M ENGINEERING, INC.
6205 Glacier Highway
Juneau, Ak. 99801
(907) 780-6060
Fax 780-4611
rmjuneau@ptialaska.net

A. E. ROGERS
ARCHITECTS

Alaska Marine Highway System
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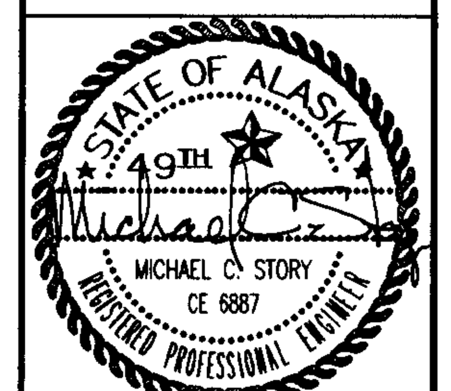

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TYPICAL FRAMING DETAILS

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FILE: P-173-6
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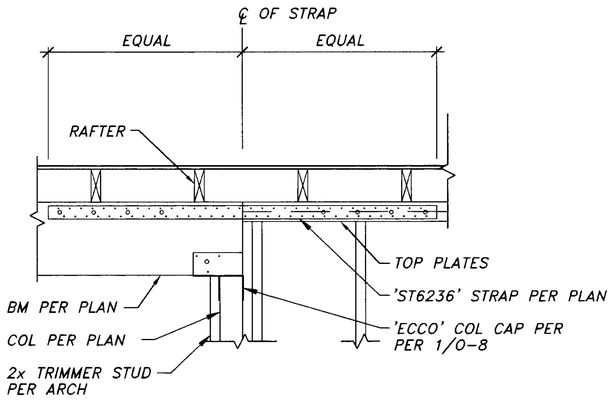
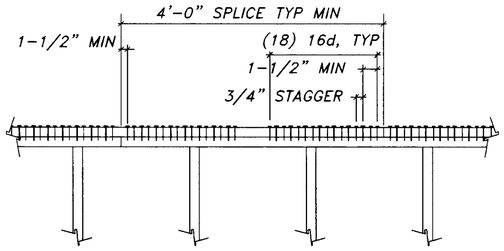


1 STRAP–BEAM TO TOP PLATES

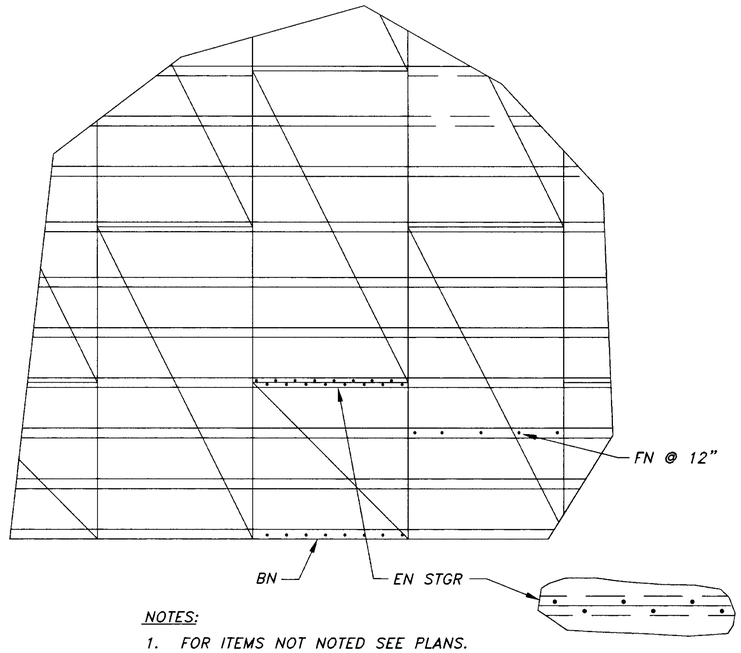


NAILED SPLICE

NOTES:

1.) MINIMUM PLATE SPLICE IS (18) 16d EA. SIDE OF EA. PLATE JOINT.
2.) STAGGER NAILS IN 2 ROWS OF 9.

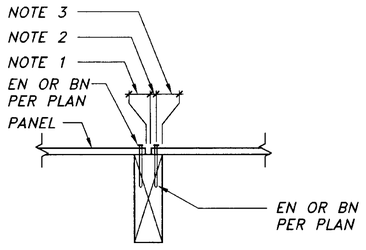
2 TYPICAL PLATE SPLICE



NOTES:

1. FOR ITEMS NOT NOTED SEE PLANS.
2. MINIMUM PANEL DIMENSION IS 2'–0"

3 TYP UNBLOCKED ROOF DIAPHRAGM
1/4" = 1'–0"

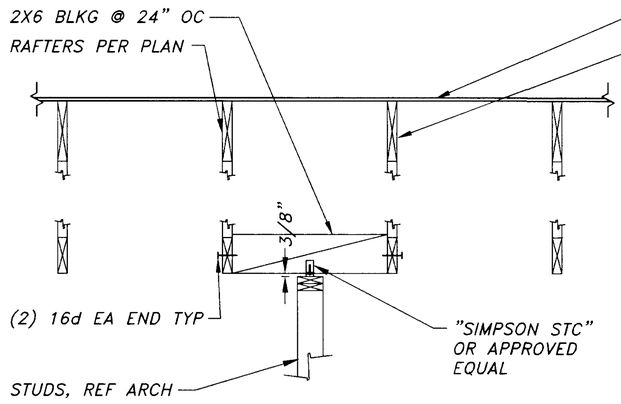


NOTES:

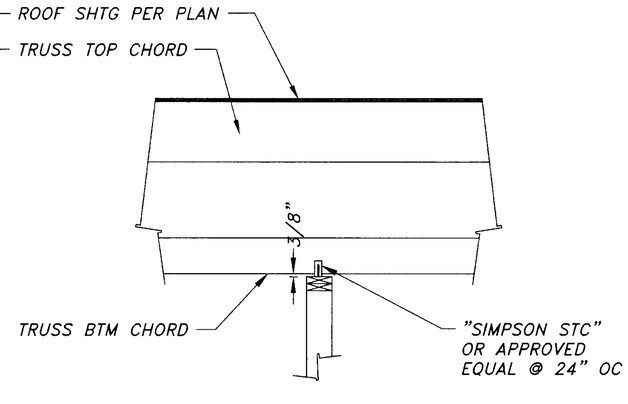
1. CLEARANCES PER PANEL MFR
2. 3/8" MIN PANEL EDGE DIST
3. 3/8" MIN LUMBER EDGE DIST

STUD OR RAFTER FRAMING

4 TYPICAL STRUCTURAL SHEATHING NAILING
N.T.S.



5 NON–BEARING WALL PARALLEL TO RAFTERS



6 NON–BEARING WALL PERPENDICULAR TO RAFTERS

R & M ENGINEERING, INC.
6205 Glacier Highway
Juneau, Ak. 99801
(907) 780–6060
Fax 780–4611
rmjuneau@ptialaska.net

A. E. ROGERS ARCHITECTS
(907) 789–7589
(FAX) 789–1638

Alaska Marine Highway System
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1100 S. Nordic Drive
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STATE OF ALASKA — 49TH — MICHAEL C. STORY — CE 6887 — REGISTERED PROFESSIONAL ENGINEER

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Title
TYPICAL FRAMING DETAILS

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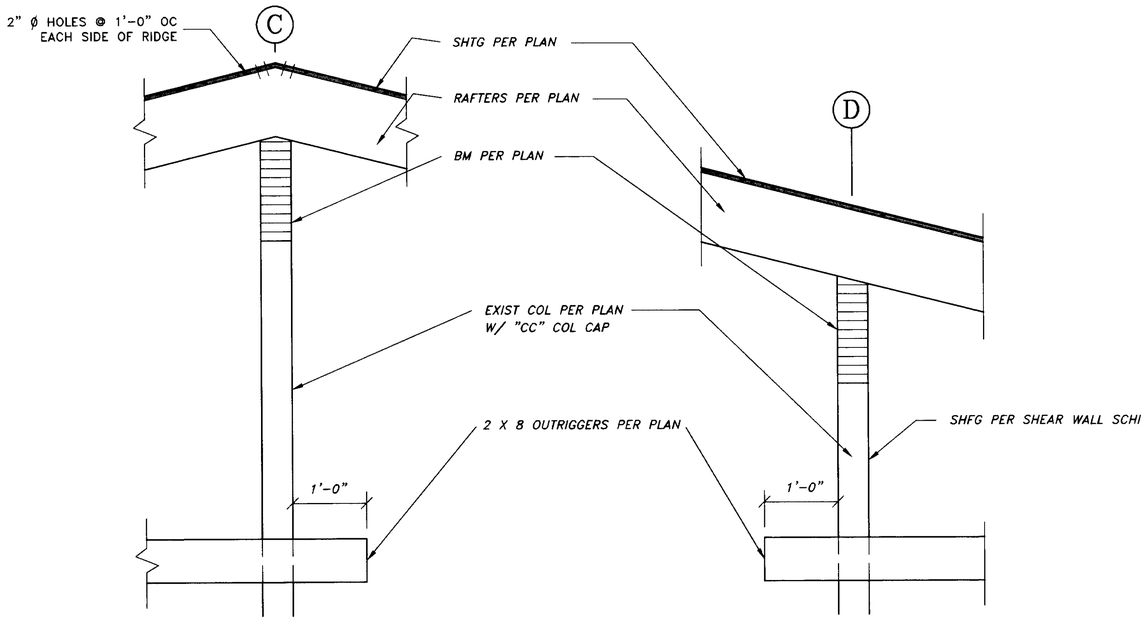
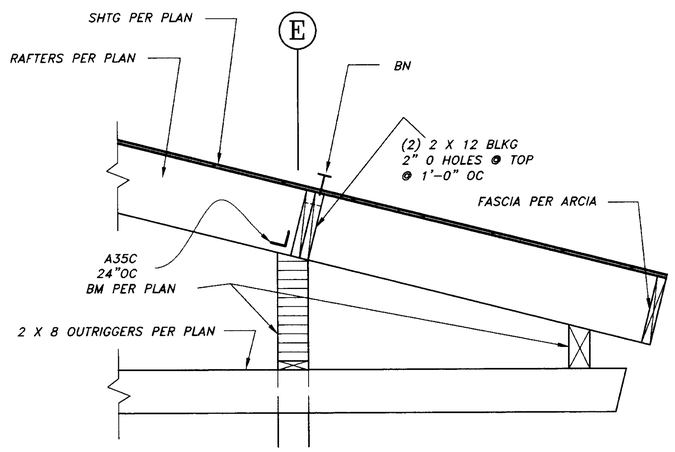
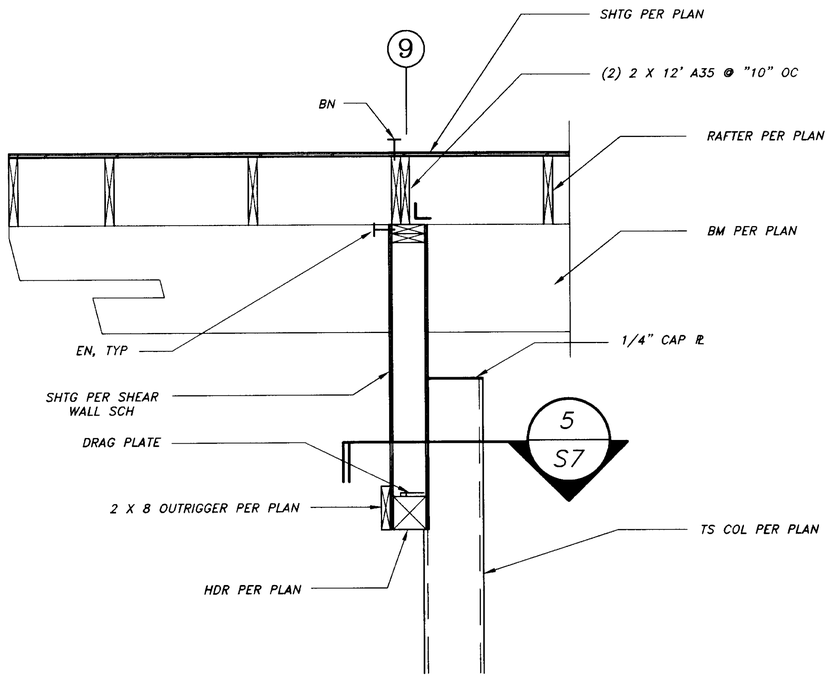


1 TYPICAL DETAIL AT RIDGE

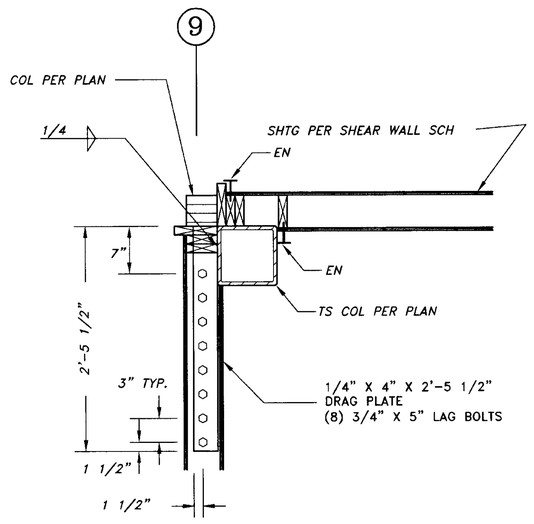
2 TYPICAL DETAIL AT GRID B AND D



3 TYPICAL DETAIL AT GRID A AND E



4 TYPICAL GABLE END DETAIL



5 TUBE STEEL TO SHEARWALL CONNECTION

R & M ENGINEERING, INC.
6205 Glacier Highway
Juneau, Ak. 99801
(907) 780-6060
Fax 780-4611
rmjuneau@ptialaska.net

A. E. ROGERS ARCHITECTS
(907) 789-7388
(FAX) 789-1638

Alaska Marine Highway System
State No. 75382
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STATE OF ALASKA 49TH
MICHAEL C. STORY
CE 6887
REGISTERED PROFESSIONAL ENGINEER

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Title
ROOF
FRAMING
DETAILS

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EQUIPMENT SCHEDULE

EQUIPMENT	MANUFACTURER	MODEL	FEATURES/CONTROLS/OPTIONS
FURNACE	JACKSON CHURCH HASTINGS	SDF-15	SELF-CONTAINED OIL-FIRED, AUTOMATICALLY CONTROLLED DOWNFLOW FURNACE WITH AN OUTPUT CAPACITY OF 150,000 BTU/HR AND DELIVERING 1,640 CFM AT 0.3 INCHES WATER COLUMN EXTERNAL STATIC PRESSURE BASED ON AN 85°F TEMPERATURE RISE. COMBUSTION CHAMBER SHALL BE 16 GAGE STAINLESS STEEL. UNIT SHALL INCLUDE 2" FLAT FILTER RACK AND ACCESS DOOR WITH HANDLES. ROOM THERMOSTATIC SENSOR SHALL CONTROL THE OPERATION OF BURNER. 120 VOLT, SINGLE PHASE.
CHIMNEY	METALBESTOS, AMPCO	PS	8"ø DOUBLE WALL POSITIVE PRESSURE TYPE CHIMNEY. CLEANOUT INSTALLED AT BOTTOM OF STACK WITH FLASHING ASSEMBLY AT ROOF PENETRATION. BAROMETRIC DAMPER. RAIN CAP ON TOP. FLASHED AND COUNTERFLASHED TO ROOF WITH PROTECTION FROM SLIDING SNOW. TOP INSTALLED 3 FEET ABOVE ANYTHING WITHIN 10 FEET HORIZONTAL DISTANCE.
EXHAUST FAN, EF-1	GREENHECK PENN	MODEL CSP-252	IN-LINE CABINET, DIRECT DRIVE, FORWARD CURVED CENTRIFUGAL TYPE FAN. 420 CFM AT 0.375 INCHES WATER COLUMN.

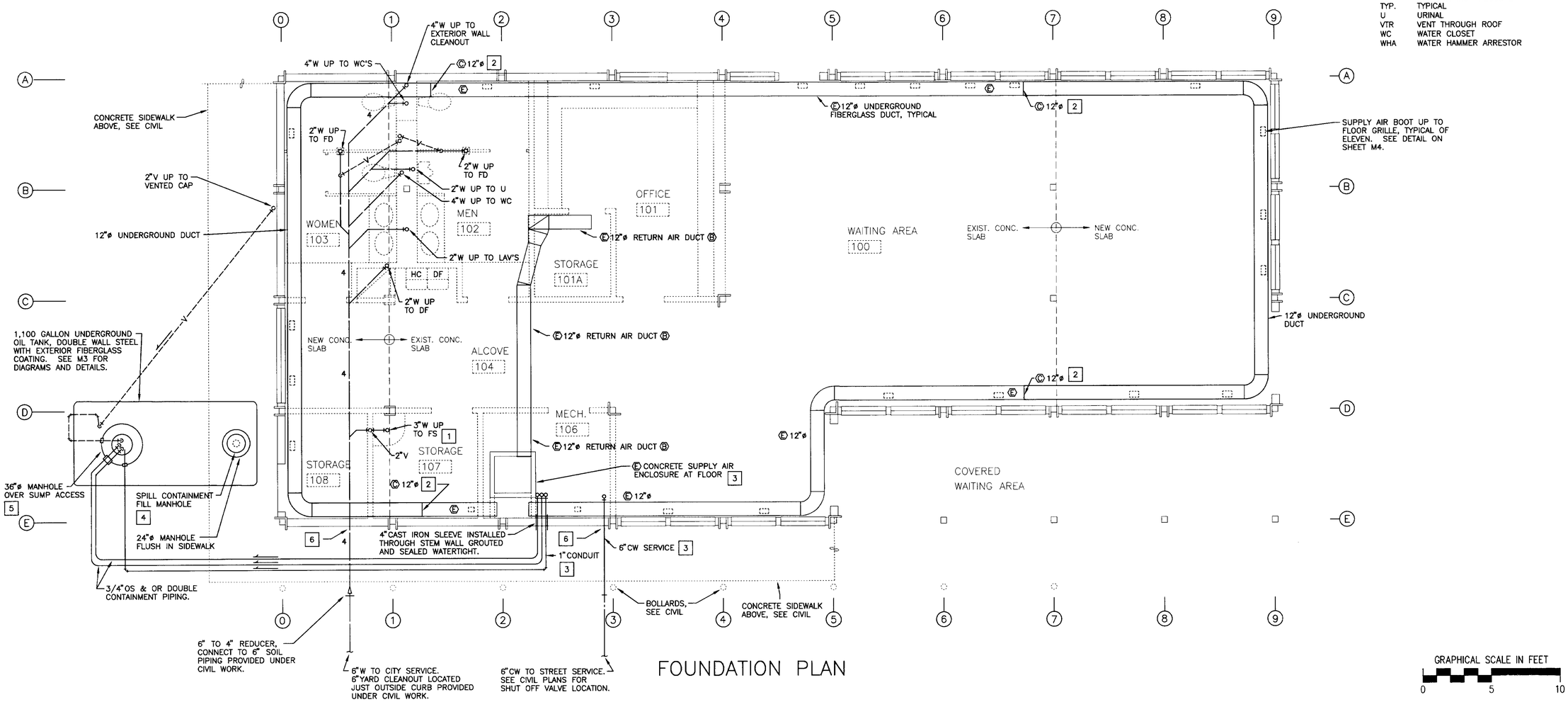
CONSTRUCTION NOTES:

1. INSTALLATION OF 3"W MAY REQUIRE MINOR DEMOLITION OF CONCRETE STEM WALL. VERIFY ON-SITE CONDITIONS.
2. DEMOLITION OF 12" DUCT ELBOW AND CONNECTION OF NEW UNDERGROUND DUCTS WILL REQUIRE DEMOLITION OF CONCRETE STEM WALL AND FLOOR. SEE CIVIL PLANS FOR COORDINATION. CUTTING OF CONCRETE BY SAWCUT OR CORE DRILL METHOD ONLY.
3. COORDINATE INSTALLATION WITH EXISTING UNDERGROUND DUCT AND EXISTING CONCRETE PIT UNDER FURNACE. ENTIRE PLENUM CLEANED AND ACCESS MAINTAINED. SEE DETAIL ON SHEET M4.
4. SPILL CONTAINER WITH CAPPED FILL INSIDE LOCATED BELOW MANHOLE FLUSH IN SIDEWALK. COORDINATE EXACT LOCATION OF MANHOLE WITH CIVIL PLANS AND TANK MANUFACTURER SHOP DRAWINGS.
5. 36" DIAMETER WATERTIGHT SUMP WITH 36" DIAMETER MANHOLE ABOVE FLUSH WITH GRADE.
6. PIPING INSTALLED UNDER FOOTING MINIMUM 12 INCHES CLEAR.

SYMBOLS

CW	COLD WATER	CONSTRUCTION NOTE
HW	HOT WATER	ROOM THERMOSTAT
V	VENT	IMMERSION THERMOSTAT
W	WASTE, SOIL, DRAINAGE	THERMOMETER
OS	OIL SUCTION	CONTROL SWITCH
OR	OIL RETURN	DIAMETER
CO	CLEANOUT	ACCESS DOOR
DV	DRAIN VALVE	ABANDONED
	UNION	TO CONNECT TO EXISTING
	PITCHED DOWN	EXISTING
	REDUCER	BELOW FLOOR
	CAPPED OR PLUGGED	TO BE RELOCATED
	RISING STEM GATE VALVE WITH TAMPER SWITCH	TO BE REMOVED
	GATE VALVE	
	CHECK VALVE	B MANUAL BUTTERFLY DAMPER
	GLOBE VALVE OR ISOLATING BALL VALVE	100 / 9x9 AIR VOLUME DIFFUSER/GRILLE SIZE
	BALL VALVE	SG FLOOR SUPPLY GRILLE
		EG CEILING EXHAUST GRILLE
		SOUND ATTENUATION
		INSULATED DUCT
		SQUARE TO ROUND DUCT TRANSITION
		RETURN/EXHAUST DUCT UP, DOWN
		SUPPLY DUCT UP, DOWN
	RG	WALL RETURN GRILLE

AFF	ABOVE FINISHED FLOOR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEANOUT
DF	DRINKING FOUNTAIN
EA	EXHAUST AIR
EAD	EXHAUST AIR DAMPER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
HB	HOSE BIBB
IAW	IN ARCHITECTURAL WORK
IEW	IN ELECTRICAL WORK
L-1	LAVATORY
MBD	MULTIBLADE DAMPER
MBH	1,000 BTU PER HOUR
OAD	OUTSIDE AIR DAMPER
OSA	OUTSIDE AIR
PSI	POUNDS PER SQUARE INCH
RAD	RECIRCULATING AIR DAMPER
RG	RETURN GRILLE
S-1	SINK
SG	SUPPLY GRILLE
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
U	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR



FOUNDATION PLAN

GRAPHICAL SCALE IN FEET
0 5 10

A. E. ROGERS ARCHITECTS
P.O. Box 34401, Juneau, Alaska 99803
(907) 789-7589
(FAX) 789-1638

MURRAY & ASSOCIATES, P. C.
CONSULTING ENGINEERS
P O BOX 21081
JUNEAU, ALASKA 99802
TEL: 907 586-6622
FAX: 907 586-6066

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Petersburg, Alaska 99833

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DOUGLAS H. MURRAY
ME 7870
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12-31-99

Proj. No. 98009A

Title
FOUNDATION PLAN, SYMBOLS

M1 OF 5

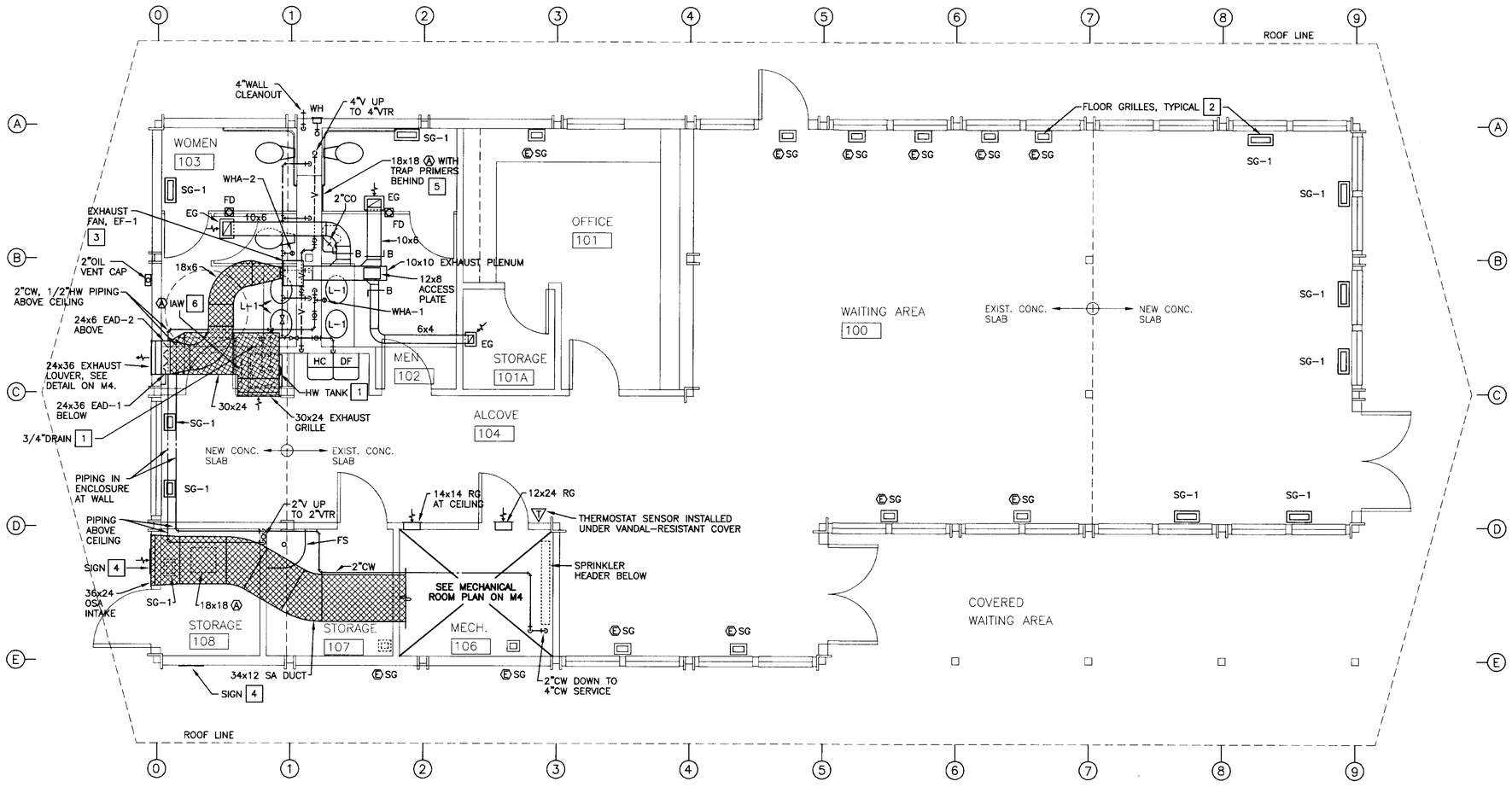
Sheet 18 of 50

CONSTRUCTION NOTES:

1. HW TANK INSTALLED IN 2" GALVANIZED SHEET METAL PAN. 3/4"DRAIN FROM HW TANK DRAIN PAN PIPED TO WOMEN 103 WITH 45 DEGREE CHROME ELBOW DOWN AT OUTLET. ESCUTCHEON ON OUTLET. COORDINATE LOCATION OF OUTLET IN WALL TILE WITH GENERAL WORK.
2. ALL FLOOR GRILLES SECURED TO CONCRETE THROUGH NEW FLOOR FINISHES. INSTALLED FLUSH WITH FINISHED SURFACE. COORDINATE CORRECT INSTALLATION WITH SPECIFIC FINISH FLOOR CONTRACTOR.
3. EXHAUST FAN AND DUCTWORK LOCATED APPROXIMATELY 4 FEET ABOVE CEILING. OUTLET DUCT INSULATED.
4. 18x12 INCH MINIMUM SIZE SIGN WITH "AIR INTAKE – SMOKING OR IDLING OF VEHICLES WITHIN 25 FEET PROHIBITED" IN 1-INCH HIGH LETTERS. SIGN WITH WHITE LETTERS ON BLACK BACKGROUND SECURED TO EXTERIOR WALL WITH STAINLESS STEEL FASTENERS AT APPROXIMATELY SEVEN FEET ABOVE GRADE.
5. 8x6 INCH MINIMUM SIZE SIGN WITH "TRAP PRIMERS BEHIND DOOR" IN 1/2" HIGH LETTERS SECURED TO ACCESS DOOR WITH STAINLESS STEEL FASTENERS.
6. ACCESS DOOR INSTALLED IN WALL BEHIND DOOR TO WOMEN 103 BY GENERAL CONTRACTOR FOR ACCESS AND REMOVAL OF HOT WATER TANK. COORDINATE CLEAR DIMENSIONS OF TANK WITH DOOR DIMENSIONS AND LOCATION.

SHEET NOTES:

1. SEE GRILLE SCHEDULE ON SHEET M4 FOR SIZES AND AIR VOLUMES OF ALL SUPPLY, RETURN, AND EXHAUST GRILLES.
2. ALL EXISTING GRILLES AND DAMPERS REMOVED, CLEANED, LUBRICATED TO A WORKING CONDITION, PAINTED TWO COATS OF ENAMEL PAINT TO MATCH EXISTING COLOR, AND REINSTALLED. EACH OPENING VACUUMED CLEAN OF DIRT AND DEBRIS PRIOR TO GRILLE INSTALLATION. ENTIRE DUCT SYSTEM CLEANED USING HIGH VELOCITY AIR PROCEDURE.



FLOOR PLAN

GRAPHICAL SCALE IN FEET

0 5 10

A. E. ROGERS ARCHITECTS
P.O. Box 34466, Juneau, Alaska 99803
(907) 789-7589
(FAX) 789-1838

MURRAY & ASSOCIATES, P. C.
CONSULTING ENGINEERS
P O BOX 21081
JUNEAU, ALASKA 99802
TEL: 907 586-6622
FAX: 907 586-6086

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DOUGLAS H. MURRAY
ME 7870
REGISTERED PROFESSIONAL ENGINEER
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FLOOR PLAN

M2 OF 5

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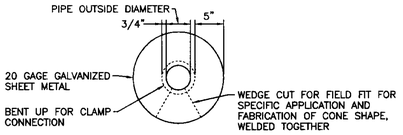
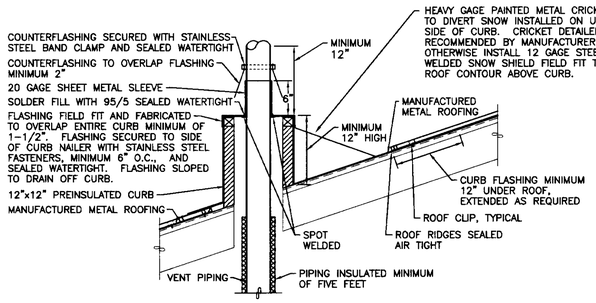


COUNTERFLASHING DETAIL

NO SCALE

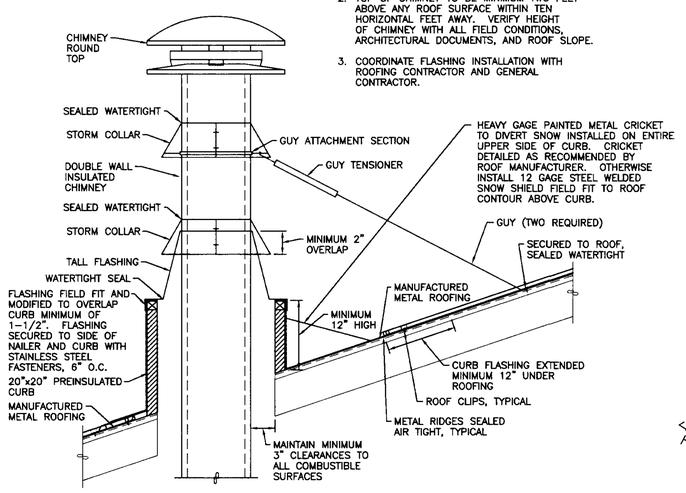
NOTE: ALL EXTERIOR METAL PARTS TO BE 20 GAGE GALVANIZED SHEET METAL AND PAINTED TWO COATS RUST PREVENTIVE PAINT TO MATCH ROOF COLOR.



VENT THROUGH ROOF DETAIL – METAL ROOFING

NO SCALE

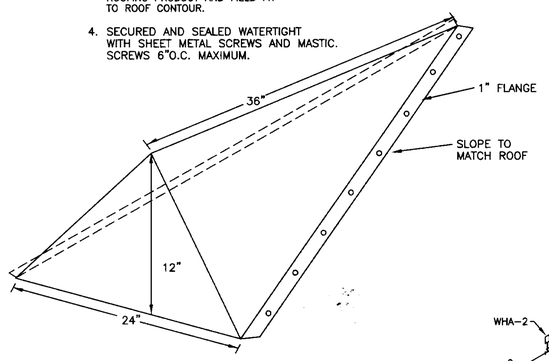
NOTES:
1. CHIMNEY, FLASHING, AND ALL CHIMNEY ACCESSORIES LOCATED EXTERIOR TO BUILDING TO BE STAINLESS STEEL 304 MATERIAL.
2. TOP OF CHIMNEY TO BE MINIMUM TWO FEET ABOVE ANY ROOF SURFACE WITHIN TEN HORIZONTAL FEET AWAY. VERIFY HEIGHT OF CHIMNEY WITH ALL FIELD CONDITIONS, ARCHITECTURAL DOCUMENTS, AND ROOF SLOPE.
3. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR AND GENERAL CONTRACTOR.



CHIMNEY ROOF PENETRATION DETAIL – METAL ROOFING

NO SCALE

NOTE:
1. ALTERNATE TO CRICKET PROVIDED BY MANUFACTURER.
2. CONSTRUCTED OF 12 GAGE STEEL PLATE, ALL SEAMS WELDED, SECURED TO ROOF. TWO COATS RUST PREVENTIVE PAINT TO MATCH ROOF
3. COORDINATE WITH SPECIFIC METAL ROOFING PRODUCT AND FIELD FIT TO ROOF CONTOUR.
4. SECURED AND SEALED WATERTIGHT WITH SHEET METAL SCREWS AND MASTIC. SCREWS 6"O.C. MAXIMUM.



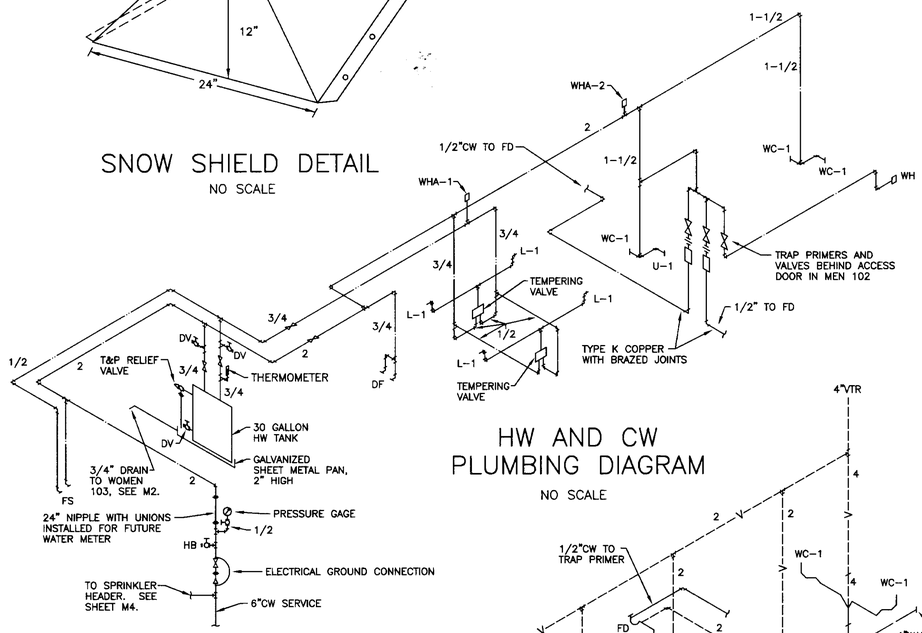
SNOW SHIELD DETAIL

NO SCALE

PLUMBING FIXTURE SCHEDULE

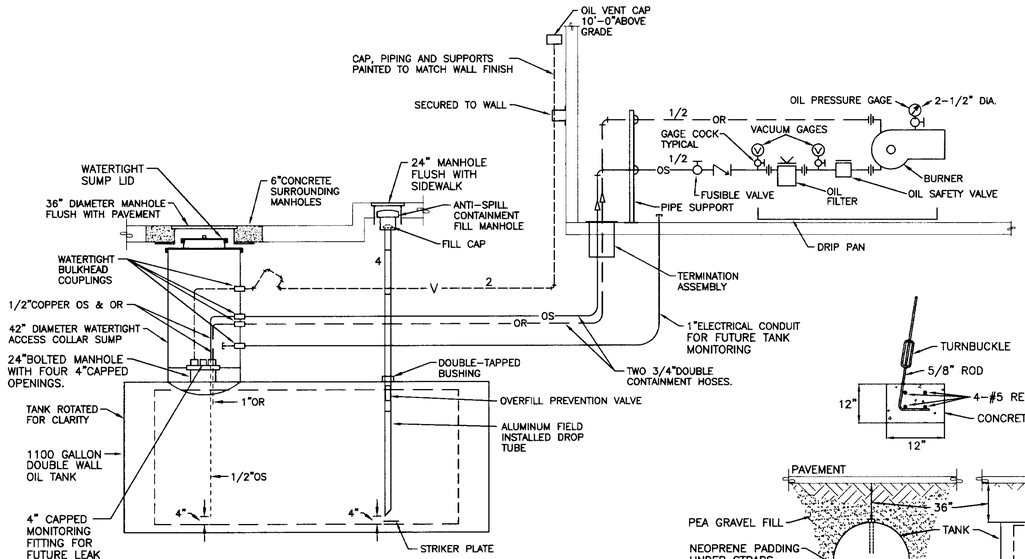
FIXTURE	HOT WATER	COLD WATER	WASTE	VENT
WATER CLOSET, WC	–	1"	4	2
LAVATORY, L-1	1/2	1/2	1-1/2	1-1/2
FLOOR DRAIN, FD	–	–	2	2
HOSE BIBB, HB	–	3/4	–	–
WALL HYDRANT, WH	–	3/4	–	–
URINAL	–	1"	2	1-1/2
DRINKING FOUNTAIN, DF	–	1/2	1-1/2	1-1/4
FLOOR SINK, FS	1/2	1/2	3	2

NOTE: SIZES ARE MINIMUM. SEE PLAN AND DIAGRAMS FOR DIFFERENT SIZE IF SHOWN.



HW AND CW PLUMBING DIAGRAM

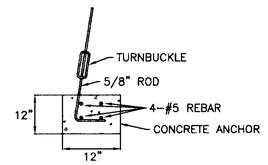
NO SCALE



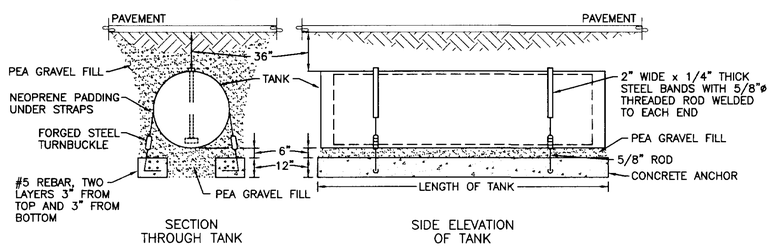
NOTE: SPECIAL INSPECTION REQUIRED BY OWNER'S REPRESENTATIVE QUALIFIED IN UNDERGROUND TANK INSTALLATIONS TO OBSERVE BALLAST AND TANK INSTALLATION AND BACKFILL. PROVIDE MINIMUM 10 DAYS NOTICE OF INSTALLATION.

OIL PIPING DIAGRAM

NO SCALE



NOTE: ALL METAL PARTS PAINTED WITH COAL TAR EPOXY PAINT OR SIMILAR. PAINT TO BE DRY PRIOR TO BACKFILL

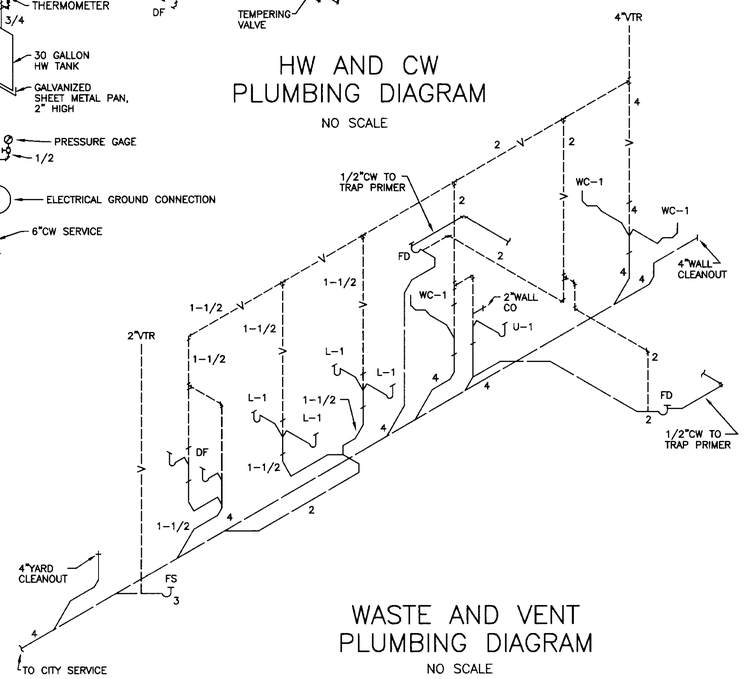


SECTION THROUGH TANK

SIDE ELEVATION OF TANK

TANK ANCHOR DETAILS

NO SCALE



WASTE AND VENT PLUMBING DIAGRAM

NO SCALE

A. E. ROGERS ARCHITECTS
P.O. Box 34445, Juneau, Alaska 99803
(907) 780-7580
(FAX) 780-1638

MURRAY & ASSOCIATES, P. C.
CONSULTING ENGINEERS
P O BOX 21081
JUNEAU, ALASKA 99802
TEL: 907 586-6622
FAX: 907 586-6066

Alaska Marine Highway System

State No. 75382
Fed. No. STP-0937(25)

PETERSBURG TERMINAL BUILDING EXPANSION
1100 N. Nordic Drive
Petersburg, Alaska

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Mk	Date

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Checked: DM

Date: 16 AUGUST 1999

STATE OF ALASKA — 49TH — DOUGLAS H. MURRAY — ME 7870 — REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12-31-99

Proj. No. 98009A

Title: PIPING DIAGRAMS, DETAILS

M3 OF 5

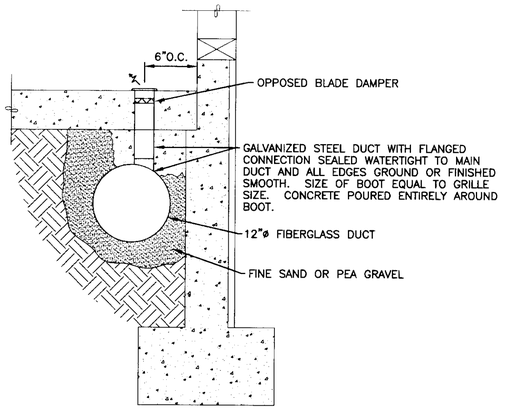
Sheet 20 of 50

DIFFUSER AND GRILLE SCHEDULE *

SUPPLY CEILING DIFFUSER/WALL GRILLE								RETURN OR EXHAUST GRILLE						
ROOM	MARK	NUMBER	SUPPLY CFM	FACE SIZE (INCHES)	NECK SIZE (INCHES)	BLOW	EXISTING, RELOCATED, OR NEW	MARK	NUMBER	RETURN CFM	EXHAUST CFM	FACE SIZE (INCHES)	NECK SIZE (INCHES)	EXISTING, RELOCATED, OR NEW
WAITING 100	SG	9	70	4x8	–	–	E	–	–	–	–	–	–	–
WAITING 100	SG-1	6	90	4x14	–	–	N	–	–	–	–	–	–	–
OFFICE 101	SG	1	90	4x8	–	–	E	–	–	–	–	–	–	–
STORAGE 101A	–	–	–	–	–	–	–	EG-1	1	–	40	6x4	6x4	N
MEN 102	SG-1	1	120	4x14	–	–	N	EG-1	1	–	190	10x10	10x6	N
WOMEN 103	SG-1	1	120	4x14	–	–	N	EG-1	1	–	190	10x10	10x6	N
ALCOVE 104	SG-1	2	70	4x10	–	–	N	EG-1	1	–	1,600	36x24	36x24	N
ALCOVE 104	–	–	–	–	–	–	–	RG-1	1	220 **	–	12x24	12x24	N
MECH. 106	SG	1	40	4x8	–	–	E	–	–	–	–	–	–	–
STORAGE 107	SG	1	50	4x8	–	–	E	–	–	–	–	–	–	–
STORAGE 108	SG-1	1	60	4x10	–	–	N	–	–	–	–	–	–	–

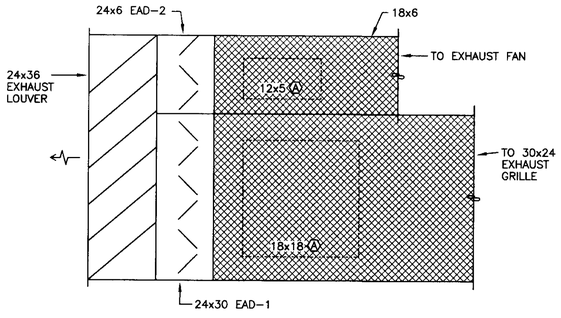
* ALL DIFFUSERS AND GRILLES SHALL BE INSTALLED AND/OR RELOCATED TO NEW CEILINGS AND NEW FLOOR FINISHES. ALL DIFFUSERS AND GRILLES SHALL BE ADJUSTED FOR AIR VOLUMES LISTED.

** VOLUME DURING MINIMUM OUTSIDE AIR CONDITION. COORDINATE WITH CONTROL CONTRACTOR DURING ADJUSTMENT FOR MINIMUM OUTSIDE AIR VOLUME OF 1,000 CFM, TO SET MULTI-BLADE DAMPER AND RAD IN RETURN DUCT AND OUTSIDE AIR DAMPER POSITIONS.



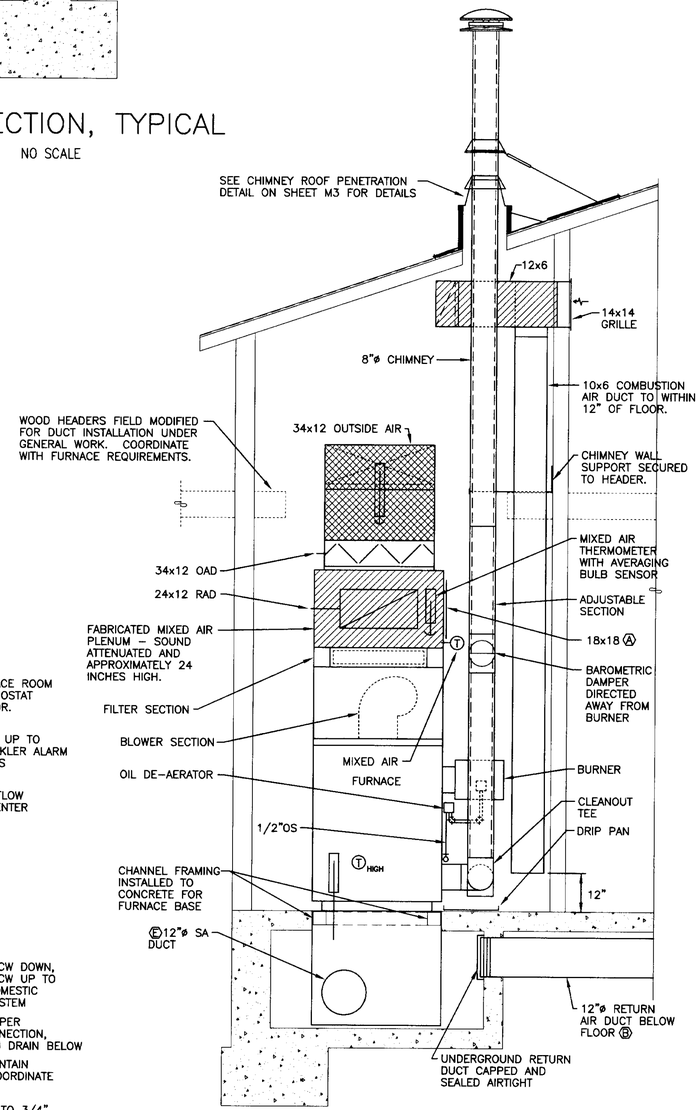
DUCT SECTION, TYPICAL

NO SCALE



EXHAUST LOUVER DETAIL

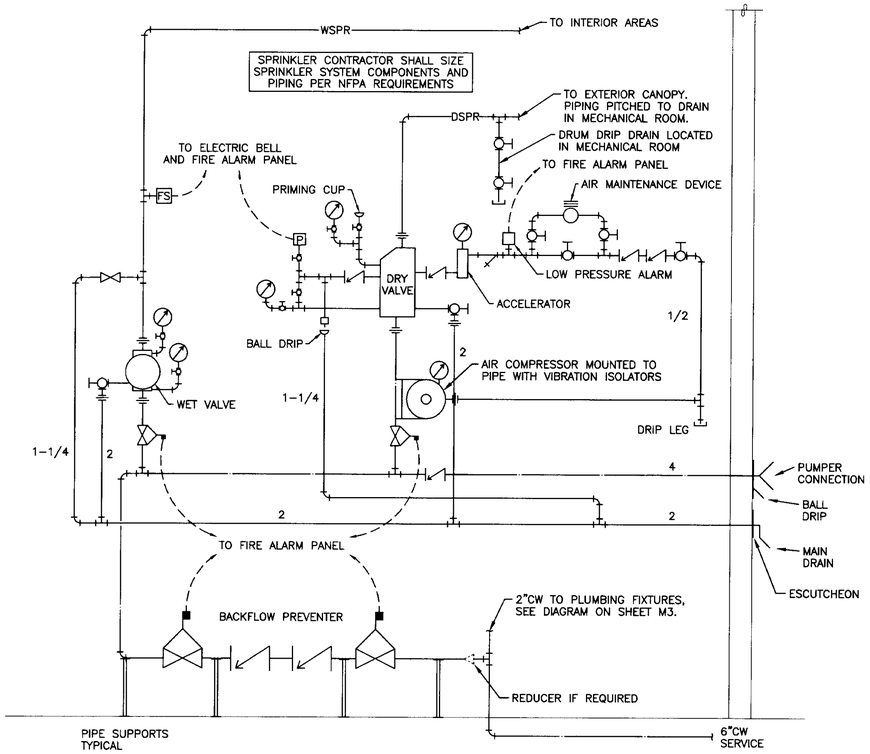
NO SCALE



MECHANICAL ROOM SECTION (A/M4)

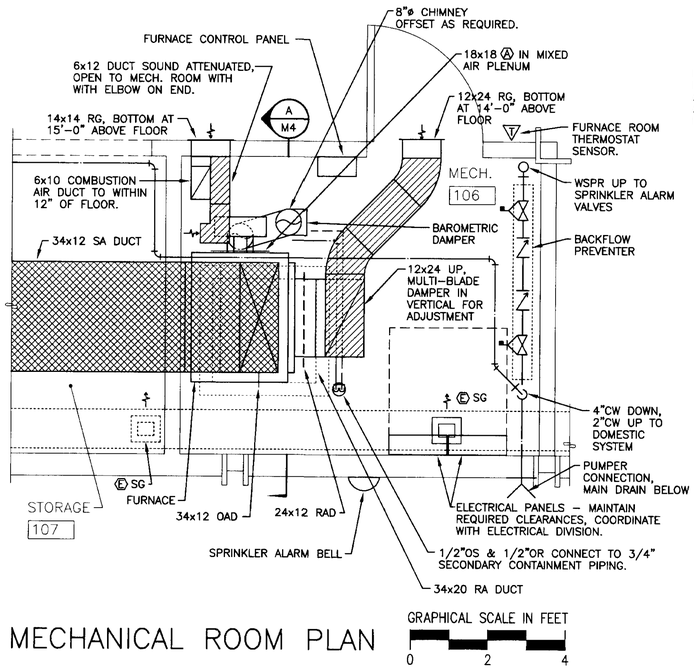
GRAPHICAL SCALE IN FEET

0 2 4



AUTOMATIC SPRINKLER PIPING DIAGRAM

NO SCALE



MECHANICAL ROOM PLAN

GRAPHICAL SCALE IN FEET

0 2 4

A. E. ROGERS ARCHITECTS
P.O. Box 34402, Juneau, Alaska 99803
(907) 789-7589
(FAX) 789-1838

MURRAY & ASSOCIATES, P. C.
CONSULTING ENGINEERS
P O BOX 21081
JUNEAU, ALASKA 99802
TEL: 907 586-6622
FAX: 907 586-6066

Alaska Marine Highway System

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STATE OF ALASKA — 10th — DOUGLAS H. MURRAY — ME 7870 — REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12-31-99

Proj. No. 98009A

Title: DETAILS

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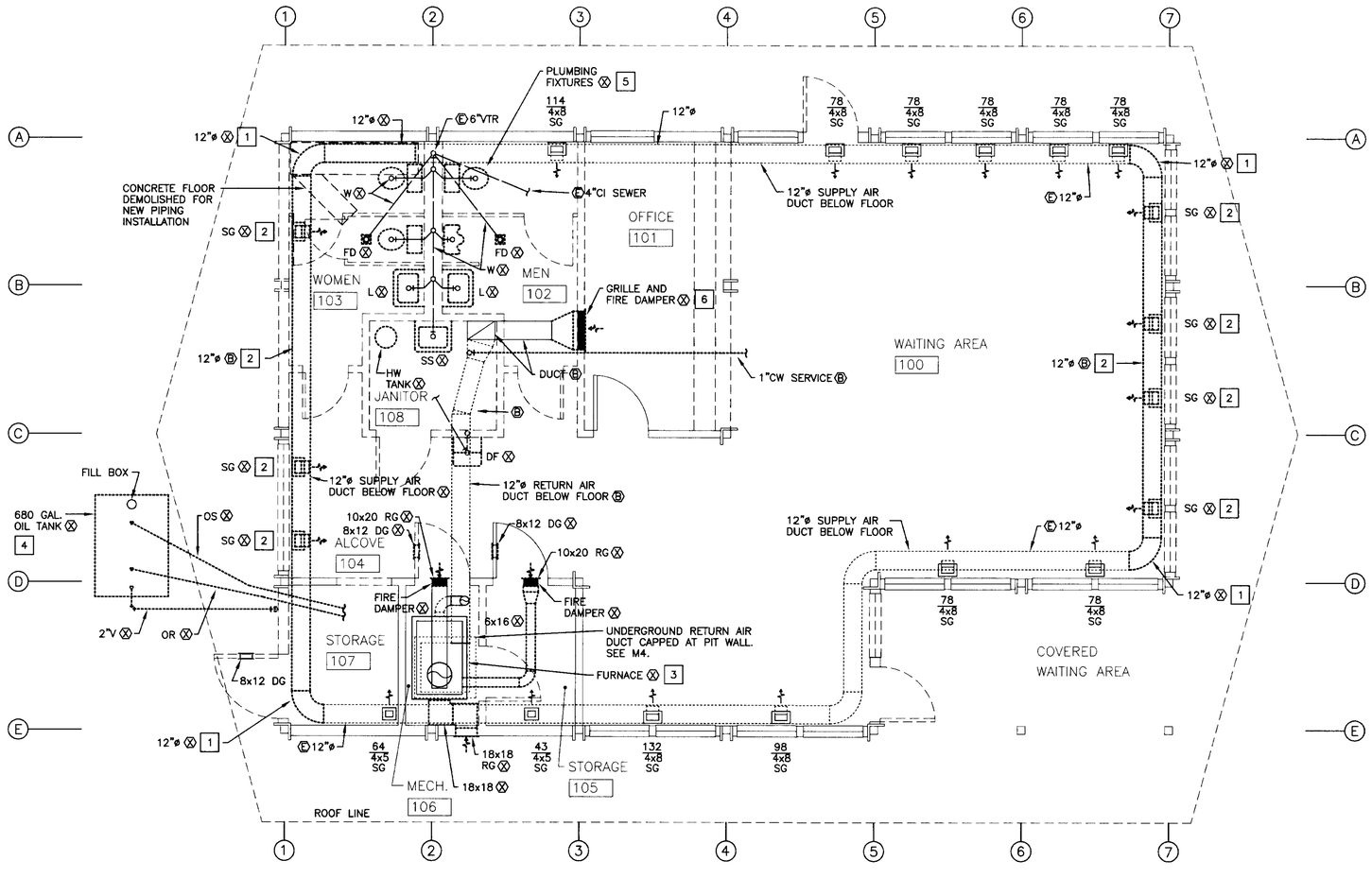
Sheet 21 of 50

CONSTRUCTION NOTES:

1. 12"ø FIBERGLASS DUCT ELBOW REMOVED FOR NEW CONNECTION TO BUILDING EXPANSION. DEMOLITION OF CONCRETE AROUND DUCT WILL BE REQUIRED.
2. 12"ø FIBERGLASS ABANDONED IN PLACE. FLOOR GRILLES REMOVED. PENETRATIONS THROUGH FLOOR FILLED WITH CONCRETE AND PATCHED TO A SMOOTH FLUSH FINISH WITH FLOOR IN GENERAL WORK.
3. FURNACE, CHIMNEY, OIL PIPING, DUCTWORK, FIRE DAMPERS, LOUVERS, WIRING AND CONTROLS REMOVED. GRILLES TO REMAIN AS NOTED.
4. SINGLE WALL OIL TANK AND ALL PIPING REMOVED. NOTIFY CONTRACTING OFFICER IMMEDIATELY IF CONTAMINATED SOILS ARE ENCOUNTERED.
5. ALL PLUMBING FIXTURES AND ABOVE GRADE PIPING REMOVED. BELOW GRADE PIPING DISCONNECTED FROM MAIN AND ABANDONED. UNDERGROUND PIPING REMOVED AS REQUIRED FOR NEW PIPING INSTALLATION. PIPING THROUGH FLOOR PENETRATIONS REMOVED AND PATCHED TO A SMOOTH FLUSH SURFACE WITH FLOOR.
6. WALL GRILLE AT FLOOR, FIRE DAMPER, AND RETURN DUCTWORK ABOVE FLOOR REMOVED. FLOOR PENETRATION SEALED AIRTIGHT WITH CONCRETE AND FINISHED SMOOTH IN GENERAL WORK.

SHEET NOTES:

1. ALL EQUIPMENT, PIPING, AND DUCTWORK IS EXISTING. CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL EQUIPMENT AND MATERIALS REMOVED.



DEMOLITION PLAN

GRAPHICAL SCALE IN FEET

0 5 10

A. E. ROGERS ARCHITECTS
P.O. Box 34481, Juneau, Alaska 99803
(907) 789-7580
(FAX) 789-1638

MURRAY & ASSOCIATES, P. C.
CONSULTING ENGINEERS
P O BOX 21081
JUNEAU, ALASKA 99802
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DOUGLAS H. MURRAY
ME 7870
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Proj. No. 98009A

Title: DEMOLITION PLAN

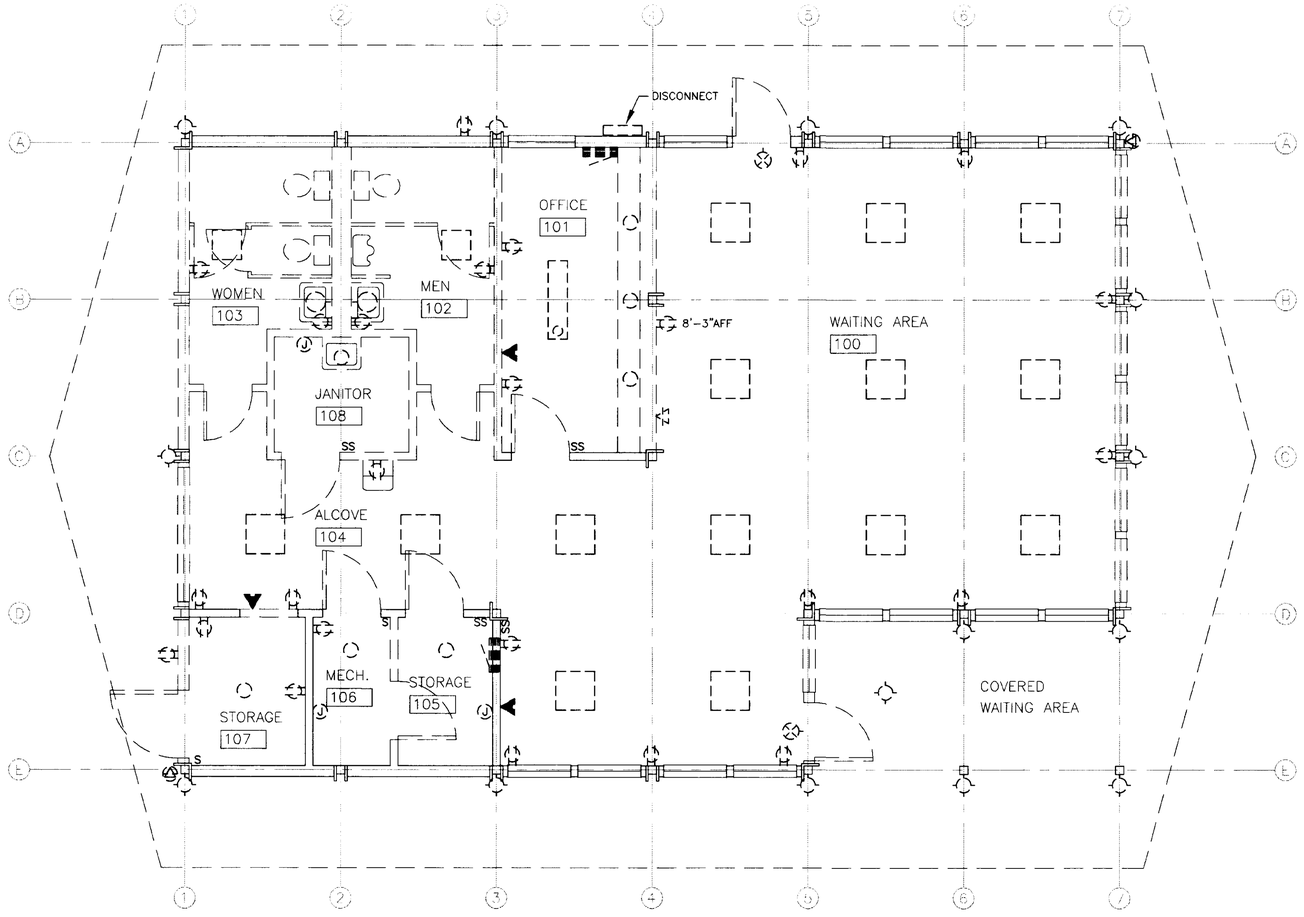
M5 OF 5

Sheet 22 of 50

GRAPHIC SCALE (FEET)

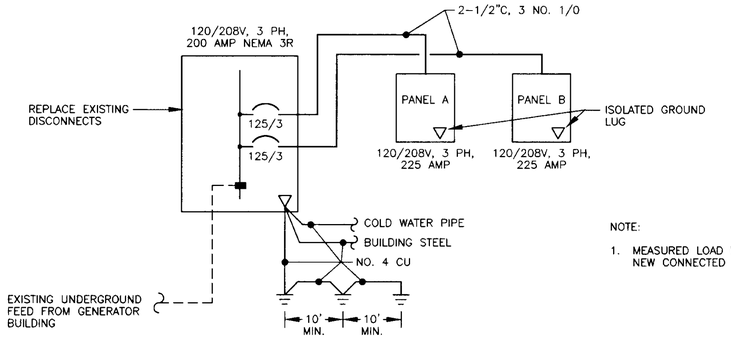
0 1' 2' 4' 8' 16'

NOTE: SCALE 1/4" = 1'-0" AT 22" X 34" SHEET ONLY.



DEMOLITION FLOOR PLAN

SCALE: 1/4" = 1'-0"



NOTE:

1. MEASURED LOAD WAS 25 AMPS ON 7-21-99. ADDITIONAL NEW CONNECTED LOAD IS APPROXIMATELY 20 AMPS.

NEW SINGLE LINE DIAGRAM

NO SCALE

LEGEND

AFF	ABOVE FINISHED FLOOR
FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT INTERRUPTER
TTB	TELEPHONE TERMINAL BOARD
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
XFMR	TRANSFORMER
S	SINGLE POLE SWITCH
Sa	SUBSCRIPT DENOTES LUMINAIRE SWITCHED
S_M	MANUAL STARTER
LC	LIGHTING CONTACTOR
NS	NON SWITCHED
PE	PHOTOELECTRIC CELL
	FLUORESCENT LUMINAIRE, EQUIP W/ SINGLE EMERGENCY BALLAST WHERE SHOWN. BODINE B50 F-48 OR APPROVED EQUAL.
	FLUORESCENT LUMINAIRE
	CEILING MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	EXTERIOR WALL MOUNTED LUMINAIRE
	WALL MOUNTED EXIT LUMINAIRE
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	RECEPTACLE RACEWAY
	ISOLATED GROUND RECEPTACLE
	SPECIAL RECEPTACLE
	250V SINGLE PHASE RECEPTACLE
	JUNCTION BOX
	DATA/COMMUNICATION RECEPTACLE
	PANELBOARD
	MAIN DISTRIBUTION PANEL
	MOTOR CONNECTION
	MOTOR STARTER
	COMBINATION STARTER/DISCONNECT
	DISCONNECT
	ISOLATED GROUND BUS
	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT DETECTOR
F	MANUAL PULL STATION
	FIRE ALARM HORN/STROBE
	FIRE ALARM STROBE ONLY
EOL	END-OF-LINE
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	SPRINKLER PRESSURE SWITCH
	WALL MOUNTED SPEAKER
	CEILING SPEAKER
M	MICROPHONE
	HOMERUN
	CONDUIT: 1/2" UON
	UNGROUNDED CONDUCTORS
	NEUTRAL: #10 WITH DOT, #12 OTHERWISE
	GROUND CONDUCTOR
	CONDUCTORS NOT SHOWN WHERE ONLY #12 NEUTRAL AND UNGROUNDED CONDUCTOR ARE REQUIRED
	FLEXIBLE CONDUIT
	CONDUIT UNDER CONCRETE SLAB

(907) 789-7589
(FAX) 789-1638

A. E. ROGERS
ARCHITECTS
P.O. Box 34401, Juneau, Alaska 99803

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

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STATE OF ALASKA 49th
T.S. McLAUGHLIN
EE 8499
REGISTERED PROFESSIONAL ENGINEER

Proj. No. 179-19

Title: FLOOR PLAN DEMOLITION/ SINGLE LINE

E1 OF 4

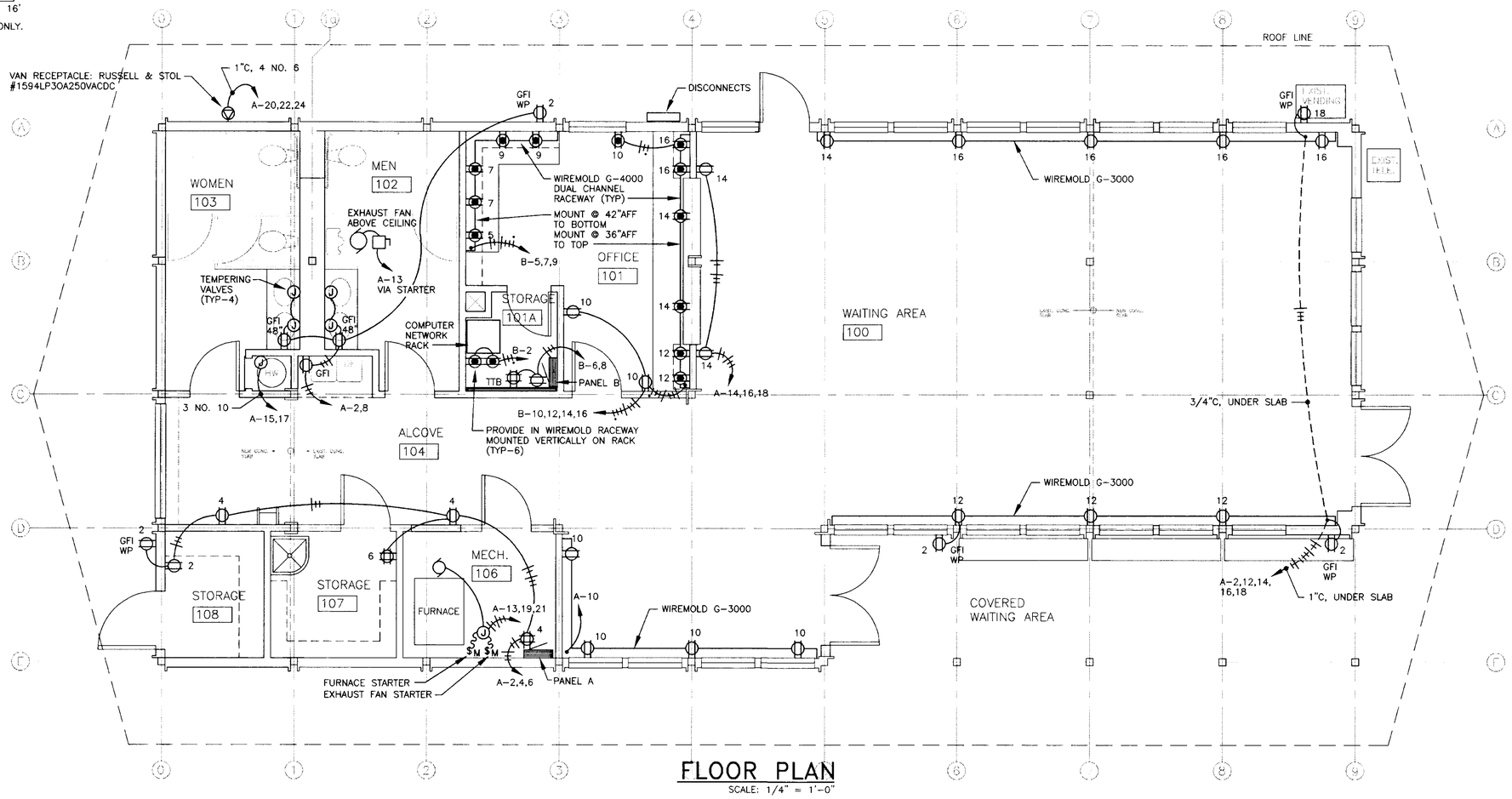
Sheet 23 of 50

C:Projects\179\19e1

GRAPHIC SCALE (FEET)

0 1" 2" 4" 8" 16'

NOTE: SCALE 1/4" = 1'-0" AT 22" X 34" SHEET ONLY.



FLOOR PLAN

SCALE: 1/4" = 1'-0"

PANEL A

SIZE: 225 AMPS | VOLTS/PHASE: 120/208V, 3 PH | MAIN: LUGS ONLY | LOCATION: MECHANICAL ROOM | MOUNT: SURFACE

CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO
1	WAITING 100 PENDANT LTG	20/1	1.4	2.3			0.9	20/1	EXTERIOR/STORAGE 108	2
3	WAITING 100/ALCOVE 104 PENDANT/WALL		1.4		2.1		0.7		ALCOVE 104/MECHANICAL 106	4
5	RESTRMS 102,103/STOR 107,108/MECH 106		0.9			1.3	0.4		STORAGE 107	6
7	EXTERIOR BUILDING		0.6	1.3			0.7		MEN 102/WOMEN 103/ALCOVE 104	8
9	SPARE		--		0.7		0.7		WAITING 100 SOUTHWEST	10
11	SPARE		--			0.5	0.5		WAITING 100 SOUTHEAST	12
13	EXHAUST FAN (1/4 HP)		0.7	1.2			0.5		WAITING 100 NORTHWEST	14
15	HOT WATER HEATER	30/2	2.3		2.8		0.7		WAITING 100 NORTHEAST	16
17	----	---	2.3			2.5	0.2		EXTERIOR POP MACHINE	18
19	BOILER - BURNER (1/4 HP)	20/1	0.7	4.5			3.8	50/3	VAN RECEPTACLE	20
21	BOILER - BLOWER (1/3 HP)		0.9		4.7		3.8	---	----	22
23	MECH. CONTROLS		0.2			4.0	3.8	---	----	24
25	SPARE		--	--			--	20/1	SPARE	26
27			--		--		--			28
29			--			---	--			30
31	PARKING LOT LIGHTING		1.0	1.0			--			32
33	PARKING LOT LIGHTING		1.0		1.0		--		SPACE	34
35	SPACE		--			--	--			36
37			--	--			--			38
39			--		--		--			40
41			--			0.2	0.2	20/1	FIRE ALARM CONTROL PANEL	42
TOTAL CONNECTED LOAD = 30.1 KVA / 94 AMPS				10.3	11.3	8.5				

PANEL B

SIZE: 225 AMPS | VOLTS/PHASE: 120/208V, 3 PH | MAIN: LUGS ONLY | LOCATION: ELECTRICAL ROOM | MOUNT: SURFACE

CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO
1	OFFICE 101/STORAGE 101A LTG	20/1	0.5	1.6			1.1	20/1	STORAGE 101A COMPUTER NETWORK RACK	2
3	SPARE		--		--		--		SPARE	4
5	OFFICE 101 WEST COUNTER		0.4			0.6	0.2		STORAGE 101A CONVENIENCE	6
7	OFFICE 101 WEST COUNTER		0.4	0.8			0.4		STORAGE 101A TELEPHONE TERMINAL BOARD	8
9	OFFICE 101 WEST COUNTER		0.4		0.9		0.5		OFFICE CONVENIENCE	10
11	SPARE		--			0.4	0.4		OFFICE 101 EAST COUNTER	12
13			--	0.4			0.4		OFFICE 101 EAST COUNTER	14
15			--		0.4		0.4		OFFICE 101 EAST COUNTER	16
17			--			--	--		SPARE	18
19			--	--			--			20
21	SPACE		--		--		--		SPACE	22
23			--			--	--			24
25			--	--			--			26
27			--		--		--			28
29			--			--	--			30
31			--	--			--			32
33			--		--		--			34
35			--			--	--			36
37			--	--			--			38
39			--		--		--			40
41			--			0.2	0.2	20/1	PUBLIC ADDRESS SYSTEM	42
TOTAL CONNECTED LOAD = 5.3 KVA / 23 AMPS				2.8	1.3	1.2				

C:Projects\179\19e2

A. E. ROGERS
ARCHITECTS
P.O. Box 34401, Juneau, Alaska 99803
(907) 789-7589
(FAX) 789-1638

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CONSULTING ENGINEERS
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Proj. No. 179-19

Title: FLOOR PLAN POWER

E2 OF 4

Sheet 24 of 50

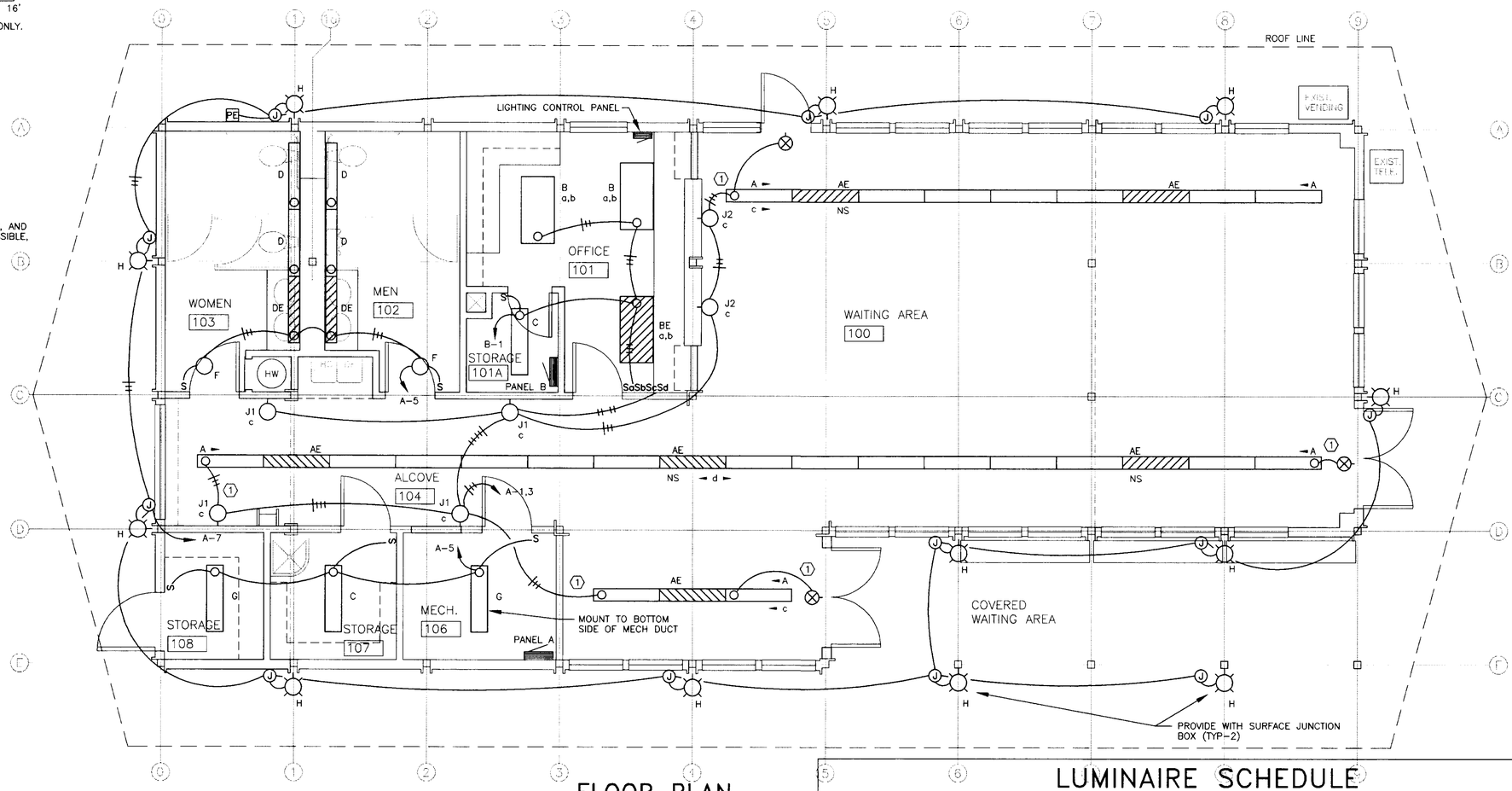
GRAPHIC SCALE (FEET)

0 1' 2' 4' 8' 16'

NOTE: SCALE 1/4" = 1'-0" AT 22" X 34" SHEET ONLY.

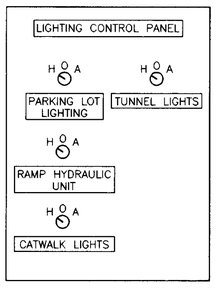
NOTES:

(1) UTILIZE SURFACE RACEWAY IN WAITING 100, AND WHERE CEILING OR WALLS ARE NOT ACCESSIBLE, AND WHERE SHOWN.



FLOOR PLAN

SCALE: 1/4" = 1'-0"

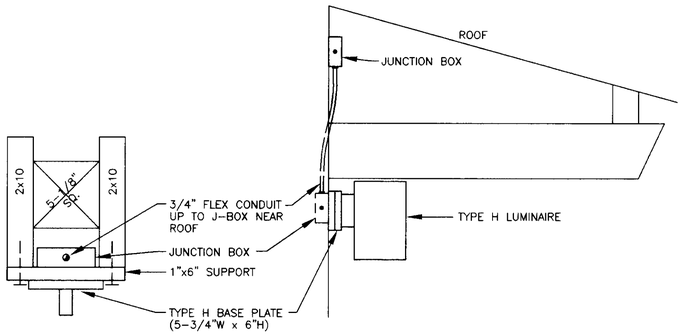


LIGHTING CONTROL PANEL

NO SCALE

NOTE:

1. REPLACE THE EXISTING CONTROL SWITCHES IN THE OFFICE WITH A NEW CONTROL PANEL. CONNECT CONTROLS TO EXISTING TUNNEL LIGHTS, RAMP HYDRAULIC UNIT, AND CATWALK LIGHTS FED FROM THE GENERATOR BUILDING PANEL, AND TO THE NEW PARKING LOT AND EXTERIOR LIGHTING. SEE EXTERIOR LIGHTING CONTROLS SCHEMATIC.



TOP VIEW

SIDE VIEW

TYPE H MOUNTING DETAIL

NO SCALE

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	9x3 ROUNDED SUSPENDED FLUORESCENT INDIRECT/DIRECT, SEMI-SPECULAR PARABOLIC ALUMINUM BAFFLE, 2 LAMP	PEERLESS LSX-320501-L24-x-1-F-xxx	(2) 32W T8 3500K, CRI 82	MOUNT 2 OUTSIDE ROWS @ 8'-6" AFF MOUNT INSIDE ROW @ 10'-6" AFF
AE	SAME AS TYPE A, WITH EMERGENCY BALLAST	PEERLESS LSX-320501-L24-x-1-F-xxx-EMB	(2) 32W T8 3500K, CRI 82	
B	2'x4' SURFACE MOUNT FLUORESCENT MODULAR WITH HOLOPHANE LENS, 3 LAMP	LITHONIA 2M 332 84Y 120	(3) 32W T8 3500K, CRI 82	
BE	SAME AS TYPE B, WITH EMERGENCY BALLAST	LITHONIA 2M 332 84Y 120 EL	(3) 32W T8 3500K, CRI 82	
C	4' SURFACE MOUNTED FLUORESCENT WRAPAROUND WITH ACRYLIC DIFFUSER, 2 LAMP	LITHONIA LB 232 120	(2) 32W T8 3500K, CRI 82	
D	4' WALL MOUNTED FLUORESCENT WRAPAROUND WITH HIGH-IMPACT MATTE WHITE ACRYLIC DIFFUSER, 2 LAMP	LITHONIA CA 232 AWR 120	(2) 32W T8 3500K, CRI 82	MOUNT ABOVE MIRROR
DE	SAME AS TYPE D, WITH EMERGENCY BALLAST	LITHONIA CA 232 AWR 120 EL	(2) 32W T8 3500K, CRI 82	MOUNT ABOVE MIRROR
F	13" DIA SURFACE MOUNT COMPACT FLUORESCENT WITH HIGH-IMPACT POLYCARBONATE LENS, 1 LAMP	KENALL MR13FL-S-xx-26Q-1-120	(1) 26W QUAD 3500K, CRI 82	
G	4' SURFACE MOUNTED FLUORESCENT INDUSTRIAL WITH END CAPS, 2 LAMP	LITHONIA PV 232 120 / PCEP	(2) 32W T8 3500K, CRI 82	
H	EXTERIOR WALL MOUNT CYLINDER HID WITH OPEN REFLECTOR, 1 LAMP	MCPHILBEN 300-O-W-R-50HPS-120-xx	(1) 50W HPS 2100K, CRI 21	MOUNT @ 8'-0" AFF
J1	QUARTER SPHERE WALL SCONCE, FLOATING METAL PHASE, 2 LAMPS	SPI LIGHTING DQC 2441 120 xx	(2) 26W QUAD 3500K, CRI 82	MOUNT @ 7'-0" AFF
J2	QUARTER SPHERE WALL SCONCE, FLOATING ACRYLIC PHASE, 2 LAMPS	SPI LIGHTING DQA 2441 120 xx	(2) 26W QUAD 3500K, CRI 82	MOUNT @ 7'-0" AFF
⊗	EMERGENCY EXIT LIGHT, DIE-CAST ALUMINUM HOUSING	LITHONIA LES 1 G 120/277 ELN	LED	MOUNT @ 8'-0" AFF

A. E. ROGERS ARCHITECTS
P.O. Box 34401, Juneau, Alaska 99803
(907) 789-7589
(FAX) 789-1638

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

Alaska Marine Highway System

State No. 75382
Fed. No. STP-0937 (25)

PETERSBURG TERMINAL BUILDING EXPANSION

1100 N. Nordic Drive
Petersburg, Alaska 99833

Revision	
Mk	Date

Drawn: PEL

Checked: TSM

Date: 16 AUGUST 1999

STATE OF ALASKA 49th
T.S. McLAUGHLIN
EE 8499
REGISTERED PROFESSIONAL ENGINEER

Proj. No. 179-19

Title: FLOOR PLAN LIGHTING

E3 OF 4

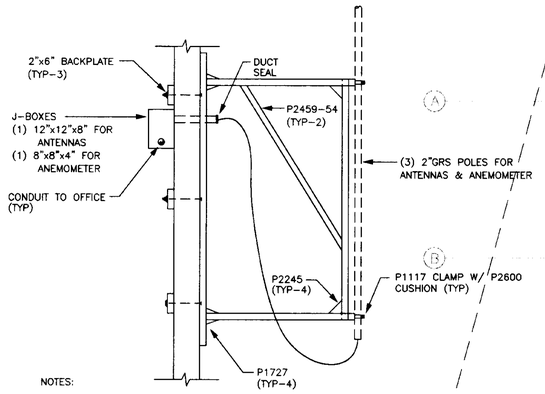
Sheet 25 of 50

C:Projects\179\19e3

GRAPHIC SCALE (FEET)

0 1' 2' 4' 8' 16'

NOTE: SCALE 1/4" = 1'-0" AT 22" X 34" SHEET ONLY.

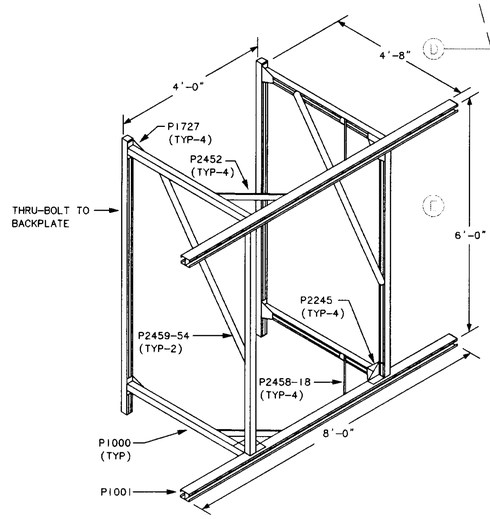


NOTES:

1. "UNISTRUT" MODEL NUMBERS SHOWN. PROVIDE "UNISTRUT" OR AN APPROVED EQUAL.
2. ALL MATERIALS & HARDWARE SHALL BE HOT-DIPPED GALVANIZED.

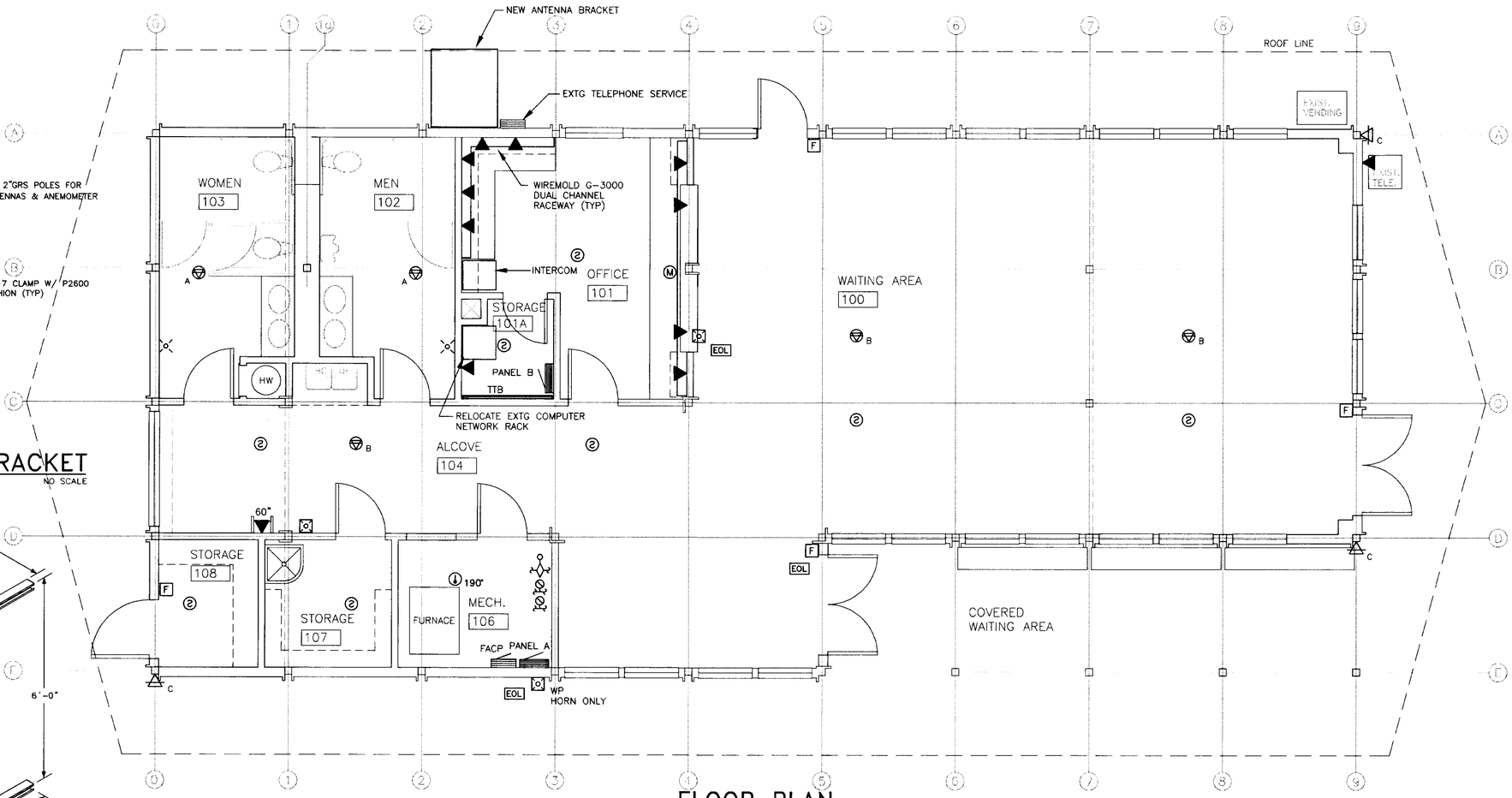
SIDE VIEW – ANTENNA BRACKET

NO SCALE



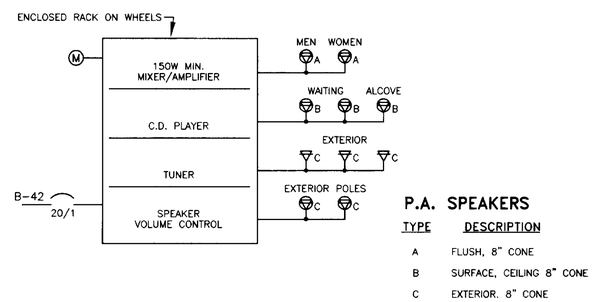
ISOMETRIC – ANTENNA BRACKET

NO SCALE



FLOOR PLAN

SCALE: 1/4" = 1'-0"

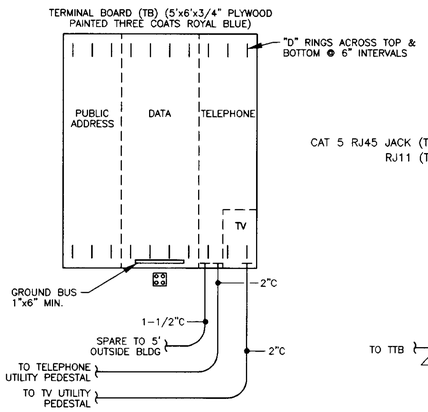


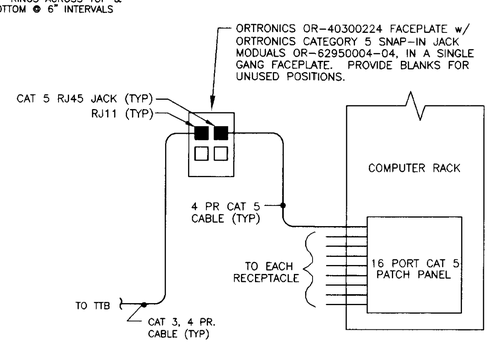
P.A. SPEAKERS

TYPE	DESCRIPTION
A	FLUSH, 8" CONE
B	SURFACE, CEILING 8" CONE
C	EXTERIOR, 8" CONE

RISER DIAGRAM – P.A. SYSTEM

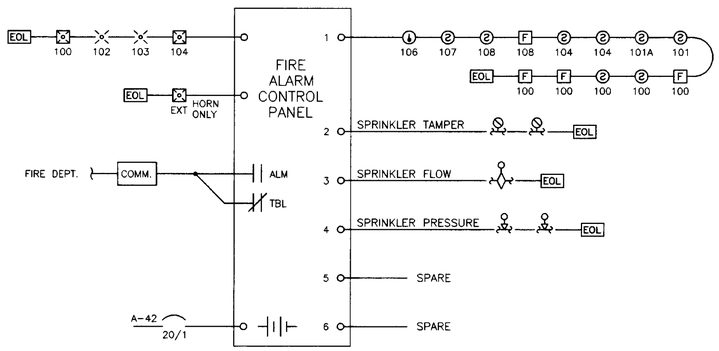
NO SCALE





RISER DIAGRAM – COMMUNICATIONS/DATA

NO SCALE



RISER DIAGRAM – FIRE ALARM SYSTEM

NO SCALE

C:Projects\179\19e4

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P.O. Box 34401, Juneau, Alaska 99803
(907) 789-7589
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Alaska Marine Highway System

State No. 75382
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PETERSBURG TERMINAL BUILDING EXPANSION

1100 N. Nordic Drive
Petersburg, Alaska 99833

Revision	
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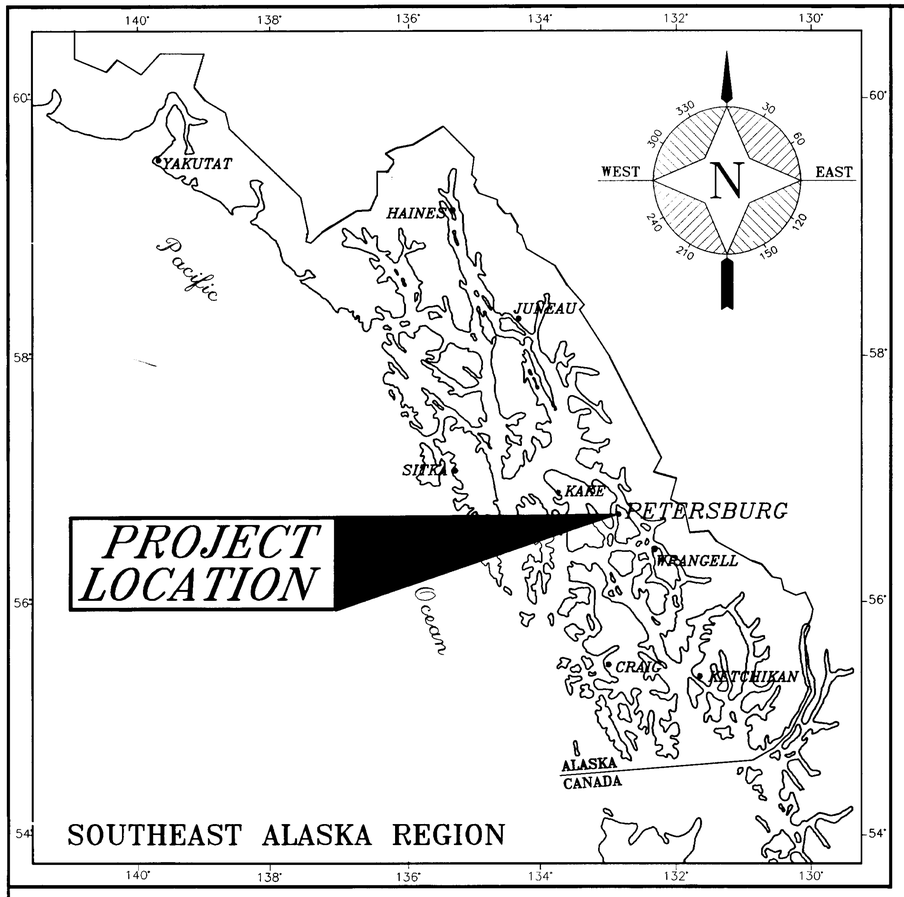
STATE OF ALASKA 49th
T.S. McLAUGHLIN
EE 8499
REGISTERED PROFESSIONAL ENGINEER

Proj. No. 179-19

Title: FLOOR PLAN SIGNAL

E4 OF 4

Sheet 26 of 50



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

FOR THE
ALASKA MARINE HIGHWAY SYSTEM

PETERSBURG, ALASKA

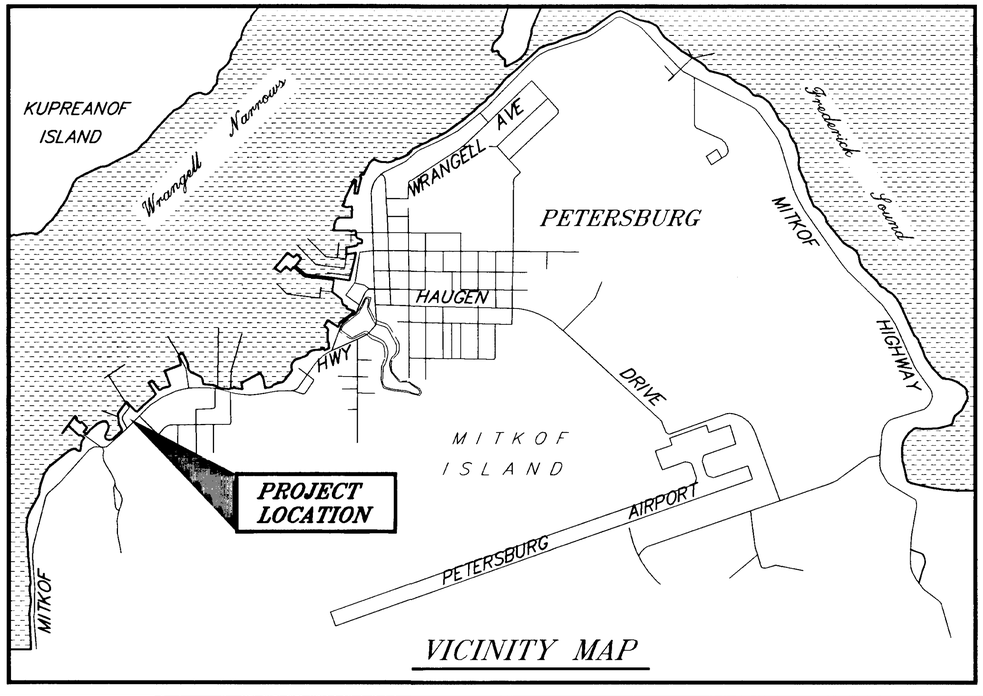
PETERSBURG FERRY TERMINAL UPLANDS IMPROVEMENTS

STP-0937(024)

PROJECT No. 75273

INDEX OF SHEETS	
SHEET No.	*DESCRIPTION*
27	TITLE SHEET
28	TYPICAL SECTIONS
29	ESTIMATE OF QUANTITIES
30	SUMMARY OF QUANTITIES
31	DEMOLITION AT TERMINAL BUILDING
32	PAVING DEMOLITION
33	SITE IMPROVEMENTS AT TERMINAL BUILDING
34	LAYOUT PLAN
35	SANITARY SEWER DETAILS
36	MITKOF HIGHWAY-SIDEWALK LAYOUT
37	MISCELLANEOUS DETAILS
38	WATERLINE AND ABUTMENT PLATE DETAILS
39	2-INCH WATERLINE EXTENSION
40	SIDEWALK & CURB CUT DETAILS
41	PEDESTRIAN BARRIER DETAILS
42	STRIPING LAYOUT
43	SIGNING LAYOUT
44	TRAFFIC CONTROL PLANS
45	TRAFFIC CONTROL PLANS
46	SITE ILLUMINATION SYSTEM
47	ELECTRICAL DETAILS
48	* AS-BUILT APPROACH PLANS
49	* AS-BUILT APPROACH PLANS
50	* AS-BUILT APPROACH PLANS
	* FOR INFORMATION USE ONLY

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT: A-1, C-01.03, C-02.01, C-03.01, D-35.00, I-20.12, S-00.00, S-05.00, S-30.01



VICINITY MAP

PROJECT NUMBER: 75273

DATE: 5/99

SHEET 27 **OF** 50

ENGINEER'S SEAL

STATE OF ALASKA
49th
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER

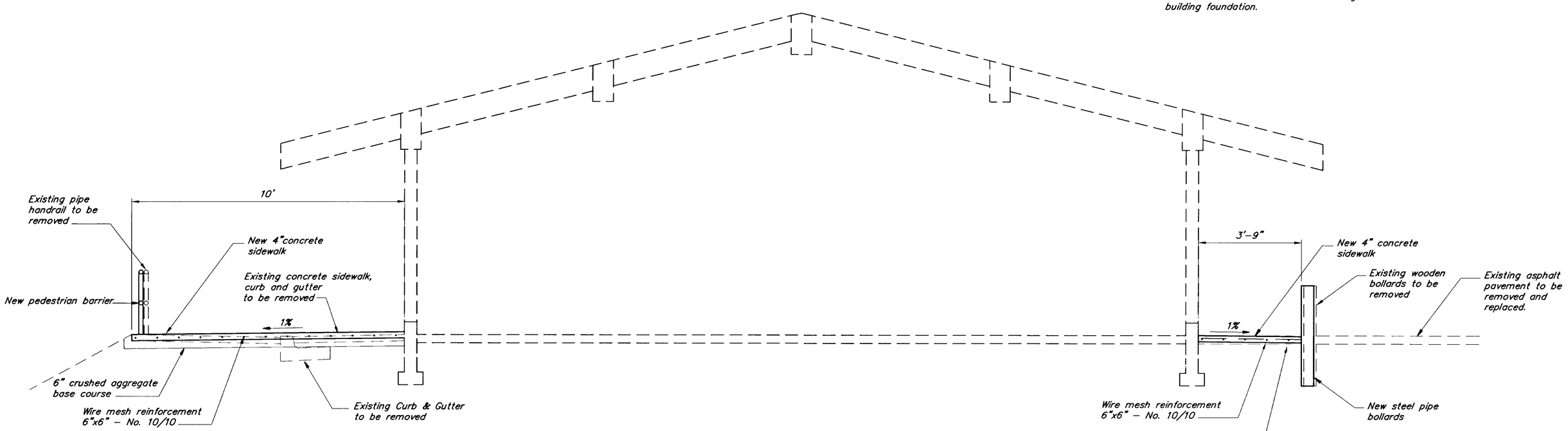
[PlotStamp Eval] 21/Dec/99 G:\Psg\75273\Dr\Tsht3.dwg Rhonda

EROSION & POLLUTION CONTROL NOTES

1. Temporary inlet sediment filters shall be installed at all new or existing inlets where pavement will be removed. Sediment filters shall remain in place until the staging area is paved.

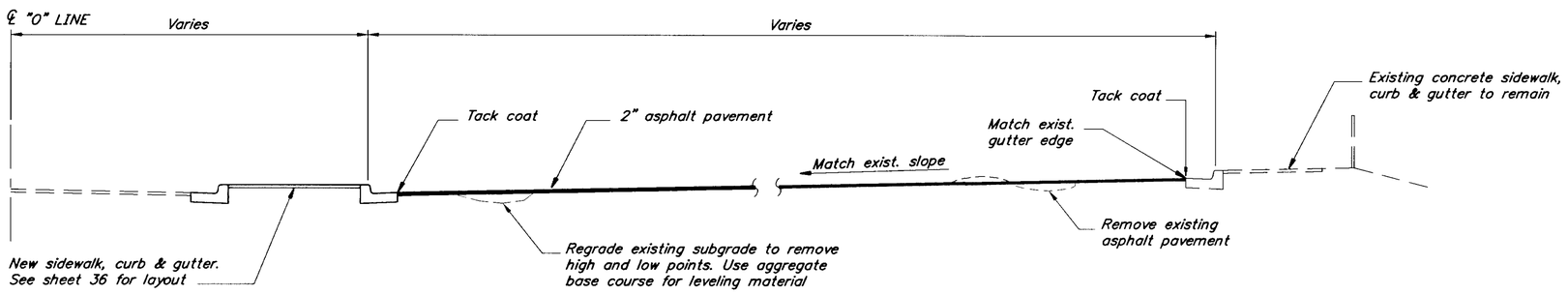
GENERAL NOTES

1. All concrete sidewalks shall be constructed with 6" X 6" – No. 10/10 wire mesh.
2. Project horizontal and vertical control on sheet 32 of 50.
3. Tackcoat to be applied where new asphalt pavement meets new or existing curb, gutter or sidewalk
4. Areas to be daylighted shall be over excavated to 4 inches in depth and filled with topsoil and seeded.
5. Water service into the Terminal building shall have 5 ft of cover and be under the building foundation.



SECTION A

See Sheet 31/50



SECTION B

See Sheet 34/50

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

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PLOT: FULL=4 OR HALF=8		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG — **PETERSBURG UPLANDS IMPROVEMENTS** — ALASKA
STP–0937(024) ~ PROJECT NO. 75273

TYPICAL SECTIONS

DESIGNED BY: D. BLACKBURN	PROJECT NO. 75273
DRAWN BY: B. BENNETT	DATE: 1999
CHECKED BY: D. SALDIVAR	SHEET 28 OF 50

STATE OF ALASKA
49th
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER

Estimate of Quantities

Item No.	Item	Unit	Quantity
120(1)	DBE Adjustment	Contingent Sum	All Required
202(1)	Removal of Structures and Obstructions	Lump Sum	All Required
202(2)	Removal of Pavement	Square Yard	~~3,000~~ 3585
202(3)	Removal of Sidewalk	Square Yard	~~247~~ 282
202(9)	Removal of Curb And Gutter	Linear Foot	~~357~~ 287
401(1)	Asphalt Concrete Pavement	Ton	~~456~~ 483.46
509(1)	Pedestrian Barrier	Linear Foot	~~60~~ 68.33
603(22)	STORM DRAIN MODIFICATIONS CD 3		AS NEED'D
608(1)	Concrete Sidewalk	Square Yard	~~234~~ 353.50
609(2)	Standard Curb and Gutter	Linear Foot	~~236~~ 359.80
615(1)	Standard Signs	Square Foot	~~63~~ 63.50
626(1)	Sanitary Sewer Conduit	Linear Foot	~~162~~ 136
627(1)	6 Inch Ductile Iron Water Conduit Class 52	Linear Foot	~~333~~ 285
627(9)	Install 6 Inch Gate Valve	Each	1
627(11)	2-Inch Waterline Extension	Lump Sum	All Required
640(1)	Mobilization and Demobilization	Lump Sum	All Required
641(1)	Erosion and Pollution Control Administration	Lump Sum	All Required
641(2)	Erosion and Pollution Control	Contingent Sum	All Required
642(1)	Construction Surveying	Lump Sum	All Required
642(2)	Three Person Survey Party	Hour	~~5~~ 0
643(2)	Traffic Maintenance	Lump Sum	All Required
644(1)	Field Office	Lump Sum	All Required
660(1)	Site Illumination System	Lump Sum	All Required
670(1)	Painted Traffic Markings	Lump Sum	All Required

Basis of Estimate

Item No.	Item	QUANTITY
401(1)	Asphalt Concrete Pavement	115.0 Lbs./Sq. Yd./In Depth

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: [PlotStamp Eval] Q:\Psg\75273\Dr\est.dwg Tue, 21/Dec/99 11:10am
PLOT: FULL=1 OR HALF=2

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG — PETERSBURG UPLANDS IMPROVEMENTS — ALASKA
STP-0937(024) ~ PROJECT NO. 75273

ESTIMATE OF QUANTITIES

DESIGNED BY: D. BLACKBURN
DRAWN BY: B. BENNETT
CHECKED BY: D. SALDIVAR

PROJECT NO. 75273
DATE: Aug. 1999
SHEET 29 OF 50

STATE OF ALASKA — 49th — David D. Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER

RELOCATION OF STRUCTURES

"0" STATION	OFFSET		STRUCTURE	REMARKS
	LEFT	RIGHT		
11+91	145'		Forest Service Kiosk Sign	Move to "0" 11+75 214' LT.

REMOVAL OF STRUCTURES & OBSTRUCTIONS

"0"STATION	OFFSET		STRUCTURE	REMARKS
	LEFT	RIGHT		
11+30	206'		Inlet Box	Remove and Dispose of
11+24	219'		18" CMP	Remove and Dispose of
11+43	187'		16 Lineal Feet of Covered Walkway	Deliver to AMHS in Juneau Ak.
11+00	160'		9 Each Timber, Bollards	Remove and Dispose of
11+08	202'		Concrete Stairs and Stair Pad	Remove and Dispose of
11+00	209'		66' Pipe Handrail	Remove and Dispose of

SIGN REMOVAL SUMMARY

STATION	OFFSET		LEGEND
	LEFT	RIGHT	
"0" 9+39	29'		ONE WAY
			DO NOT ENTER
			ALASKA MARINE HIGHWAY, VEHICLE STAGING ONLY
"0" 11+69	108'		NO PARKING ANYTIME
"0" 11+56	73'		NO PARKING ANYTIME
"0" 11+61	30'		← PETERSBURG
			← HOSPITAL
			← STATE TROOPERS
			1 EACH UNKNOWN
			1 EACH UNKNOWN
"0" 11+80	30'		SCHOOL BUS STOP AHEAD

Pedestrian Barrier Summary

Station	Offset		Remarks
	Left	Right	
"0" 10+66	204'		BEGIN RUN (54 LINEAR FEET)
"0" 11+20	212'		END RUN
"0" 11+11	205'		BEGIN RUN (6 LINEAR FEET)
"0" 11+17	205'		END RUN

Valve Box Summary

Station	Offset		Remarks
	Left	Right	
"0" 10+94	24.5'		IN SIDEWALK FOR 6" GATE VALVE
"0" 11+44.5	27.3'		LOWER VALVE BOX

Valve Summary

Station	Offset		Remarks
	Left	Right	
"0" 10+94	24.5'		6" GATE VALVE

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: [PlotStamp Eval] Q:\Psg\75273\Dr\sum1.dwg Tue, 21/Dec/99 11:11am
PLOT: FULL=1 OR HALF=2

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG ALASKA

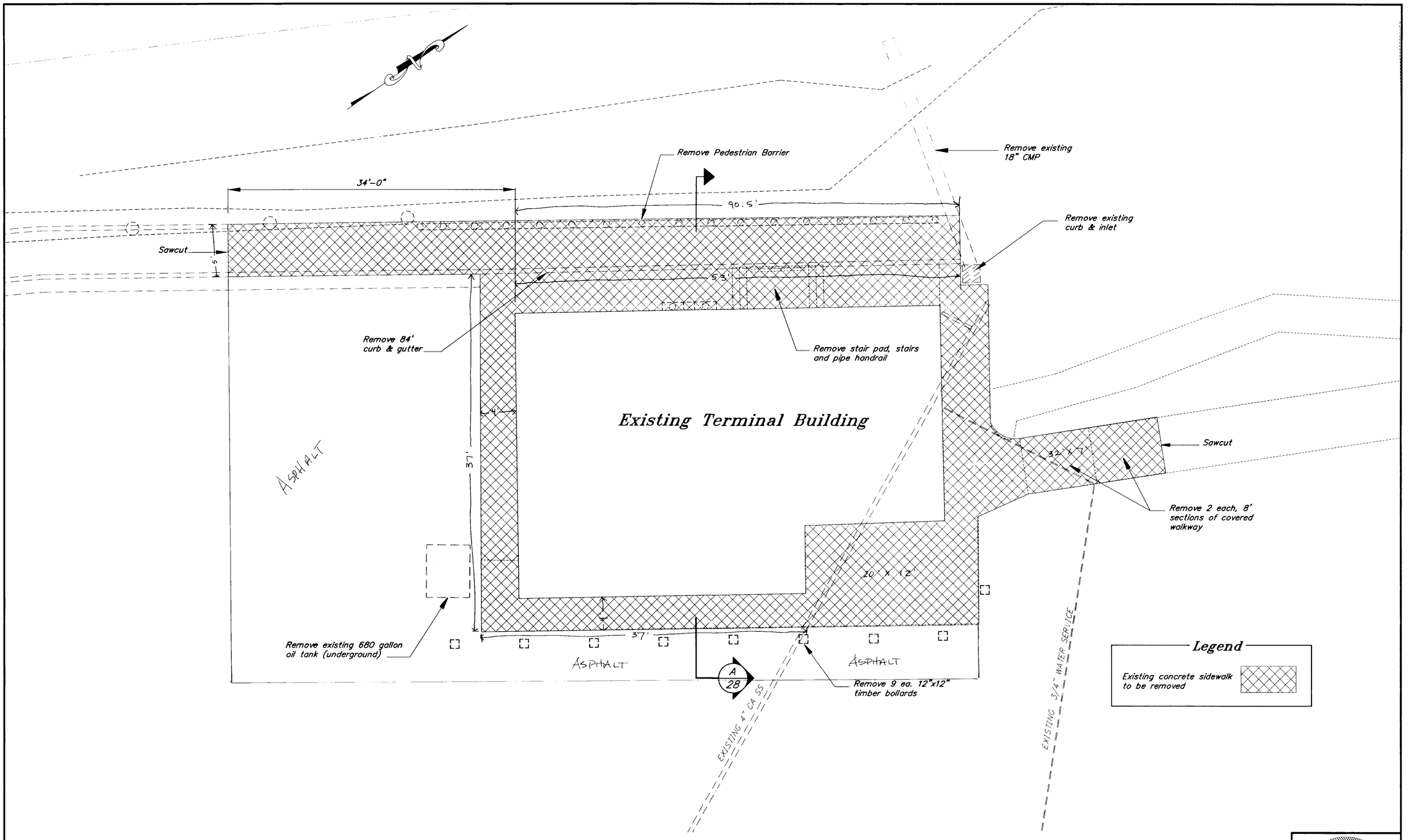
PETERSBURG UPLANDS IMPROVEMENTS
STP-0937(024) ~ PROJECT NO. 75273

SUMMARY OF QUANTITIES

DESIGNED BY: D. BLACKBURN
DRAWN BY: B. BENNETT
CHECKED BY: D. SALDIVAR

PROJECT NO. 75273
DATE: Aug. 1999
SHEET 30 OF 50

STATE OF ALASKA
49th
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

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PLOT: FULL=1 OR HALF=2 VIEW: Site, TB1		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

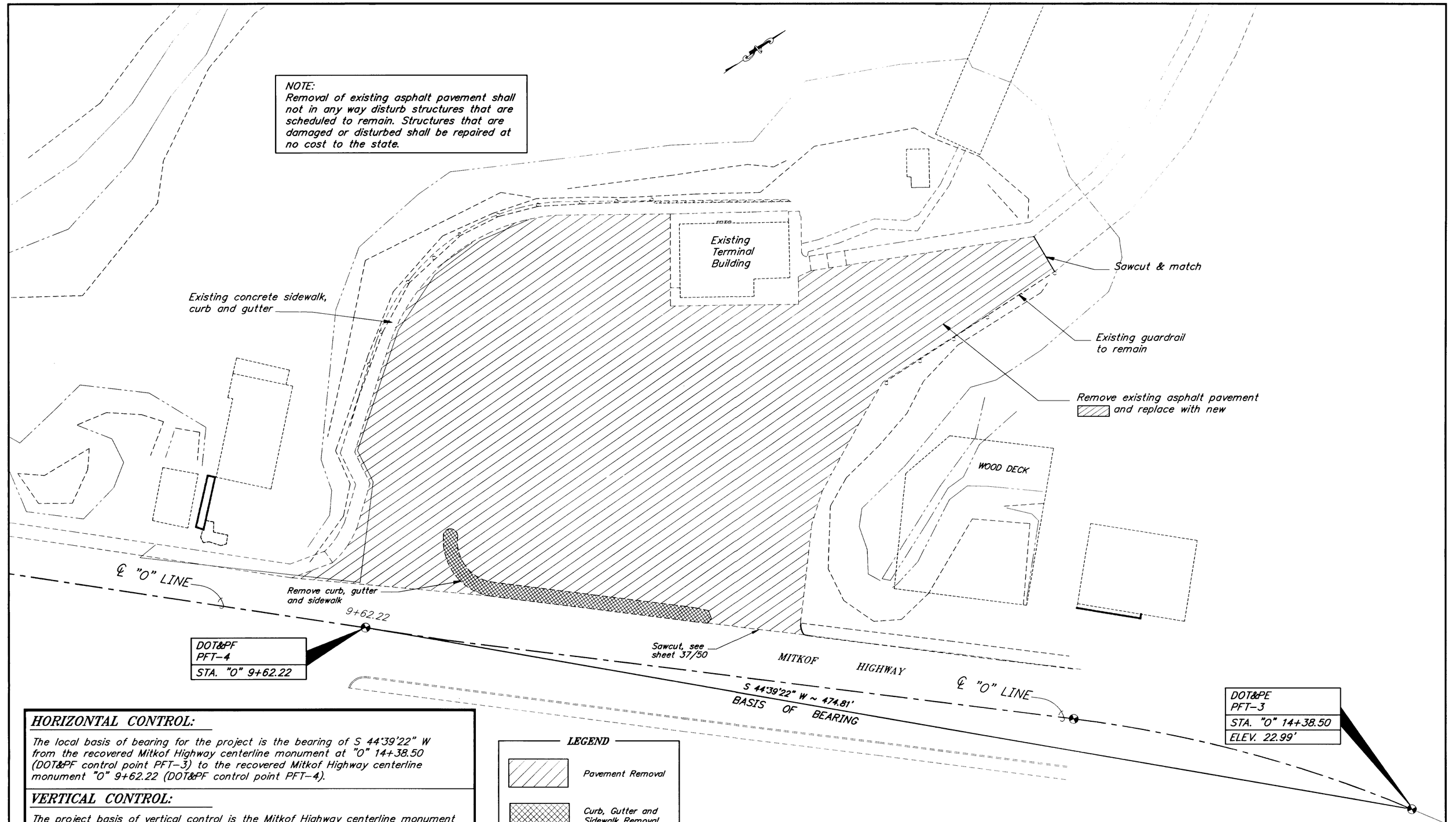
PETERSBURG **PETERSBURG UPLANDS IMPROVEMENTS** ALASKA
STP–0937(024) ~ PROJECT NO. 75273

DEMOLITION AT TERMINAL BUILDING

DESIGNED BY:	D. BLACKBURN	PROJECT NO.	75273
DRAWN BY:	B. BENNETT	DATE:	Aug. 1999
CHECKED BY:	D. SALDIVAR	SHEET	31 OF 50

STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER

NOTE:
Removal of existing asphalt pavement shall not in any way disturb structures that are scheduled to remain. Structures that are damaged or disturbed shall be repaired at no cost to the state.



HORIZONTAL CONTROL:

The local basis of bearing for the project is the bearing of S 44°39'22" W from the recovered Mitkof Highway centerline monument at "0" 14+38.50 (DOT&PF control point PFT-3) to the recovered Mitkof Highway centerline monument "0" 9+62.22 (DOT&PF control point PFT-4).

VERTICAL CONTROL:

The project basis of vertical control is the Mitkof Highway centerline monument "0" 14+38.50 with an accepted elevation of 22.99' above MLLW.

LEGEND

- Pavement Removal
- Curb, Gutter and Sidewalk Removal

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: [PlotStamp Eval] Q:\Psg\75273\Dr\demo1.dwg Tue, 21/Dec/99 11:26am		
PLOT: FULL=1 OR HALF=2 Paper Space view: Demolition		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

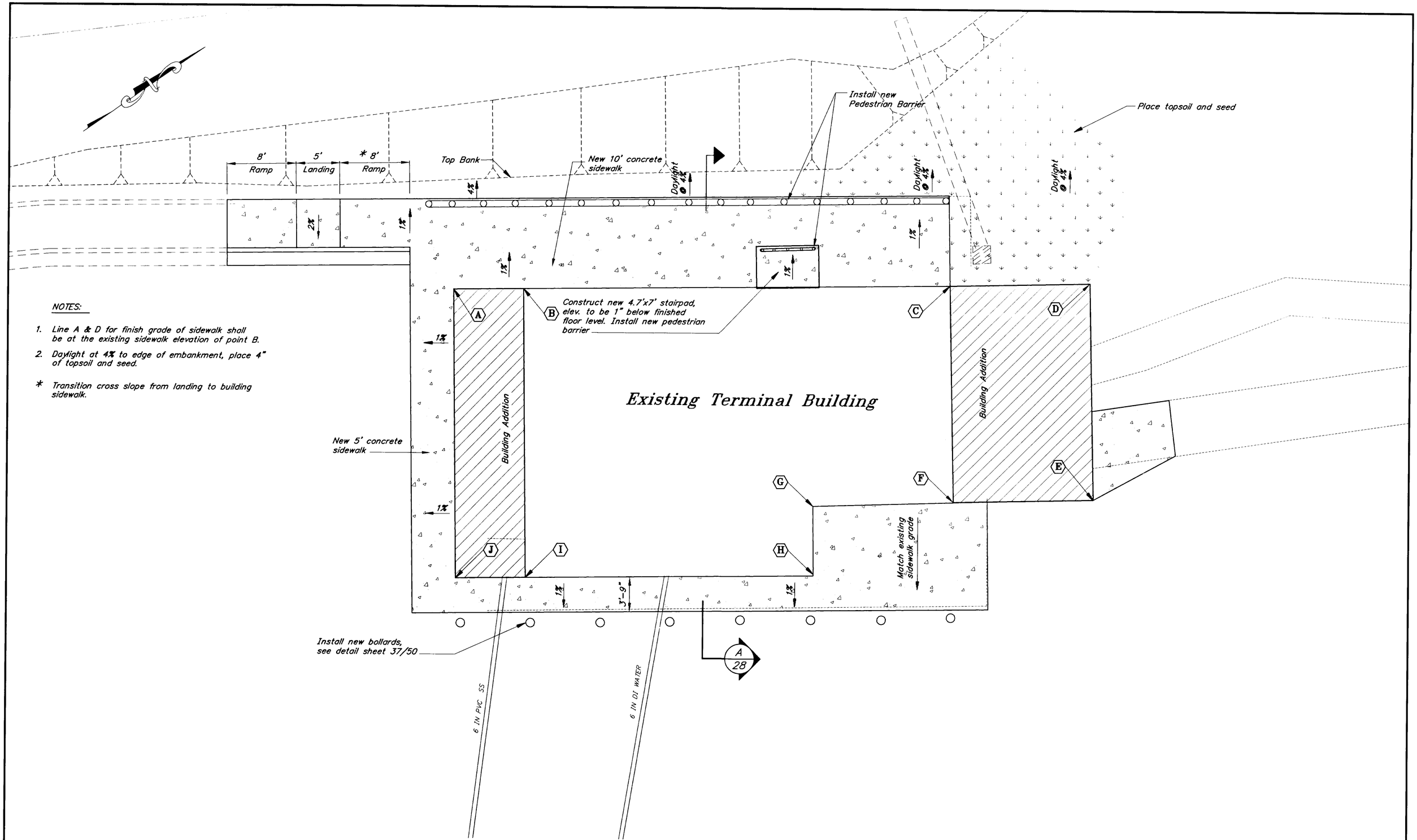
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG **PETERSBURG UPLANDS IMPROVEMENTS** ALASKA
STP-0937(024) ~ PROJECT NO. 75273

PAVING DEMOLITION

DESIGNED BY: D. BLACKBURN	PROJECT NO. 75273
DRAWN BY: B. BENNETT	DATE: Aug. 1999
CHECKED BY: D. SALDIVAR	SHEET 32 OF 50

STATE OF ALASKA
David D Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



NOTES:

1. Line A & D for finish grade of sidewalk shall be at the existing sidewalk elevation of point B.
2. Daylight at 4% to edge of embankment, place 4" of topsoil and seed.

* Transition cross slope from landing to building sidewalk.

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: [PlotStamp Eval] O:\Psg\75273\Dr\PLANIMPV.dwg Tue, 21/Dec/99 11:27am
PLOT: FULL=1 OR HALF=2 VIEW: Site, TB2

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG — ALASKA

PETERSBURG UPLANDS IMPROVEMENTS
STP-0937(024) ~ PROJECT NO. 75273

SITE IMPROVEMENTS AT TERMINAL BLDG.

DESIGNED BY: D. BLACKBURN	PROJECT NO. 75273
DRAWN BY: B. BENNETT	DATE: Aug. 1999
CHECKED BY: D. SALDIVAR	SHEET 33 OF 50

STATE OF ALASKA
David D Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER

S-B
28

Sta. "0" 10+70
199.4 Lt., Elev. 27.2

Sta. "0" 10+17
191' Lt., Elev. 26.20

Sta. "0" 10+75
162.3' Lt., Elev. 27.62

Sta. "0" 10+80

Sta. "0" 10+99

New location
Kiosk sign

Sta. "0" 12+36.7
210.6' Lt., Elev. 24.90

Match existing
Bridge Deck.
Attach Abutment
plate, see details
sheet 38 of 50

Sta. "0" 11+55.3
187.4' Lt., Elev. 26.8
(TOP SIDEWALK)

6 IN DI WATER SERVICE

Sta. "0" 12+48
196.4 Lt., Elev. 24.90

See water system on
sheet 39 of 50

Match side of existing sidewalk
0.10 ft below top

Sta. "0" 11+36.2
167.4' Lt., Elev. 27.10

Match existing
curb & gutter

Match new
sidewalks

Sta. "0" 11+78.1
137.8' Lt., Elev. 26.30

Kiosk sign to
be relocated

Sta. "0" 9+59.9
136.4' Lt., Elev. 26.31

6 IN PVC SS

6 IN DI WATER SERVICE

EXISTING 3/4" WATER SERVICE

WOOD DECK

NOTE:
ALL ELEVATIONS ARE TO
EDGE OF ASPHALT EXCEPT
AS NOTED.

Sta. "0" 9+47.8
77.1' Lt., Elev. 25.40

Sta. "0" 9+56.5
64.1' Lt., Elev. 25.31

Sta. "0" 11+54.5
71' Lt., Elev. 24.50

EXISTING 4" CA SS

Sawcut &
match

Sta. "0" 10+06
29.1' Lt., Elev. 23.77

Sta. "0" 11+27.9
29.5' Lt., Elev. 23.02

RELOCATED INLET

Sawcut &
match
12" ϕ CPP
94'

EXIST INLET

' LINE

Sta. "0" 9+26.6
17.85 Lt., Elev. 24.28

Sta. "0" 10+13.9
19.3' Lt., Elev. 23.75

Sta. "0" 10+81

Sta. "0" 10+93

Sta. "0" 11+20
19.6' Lt., Elev. 23.32

Sta. "0" 11+57.1
21.7 Lt., Elev. 23.64

9+00 10" CA 10+00 11+00 12+00 13+00

MITKOF HIGHWAY

SCALE 1:30 ON FULL SIZE PLAN SHEETS (22" X 34")

PATH:	[PlotStamp Eval] Q:\Psg\75273\Dr\Proj.layout.dwg Tue, 21/Dec/99 11:28am		
PLOT:	Full=1 or Half=2 Views: Pave, P2		
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

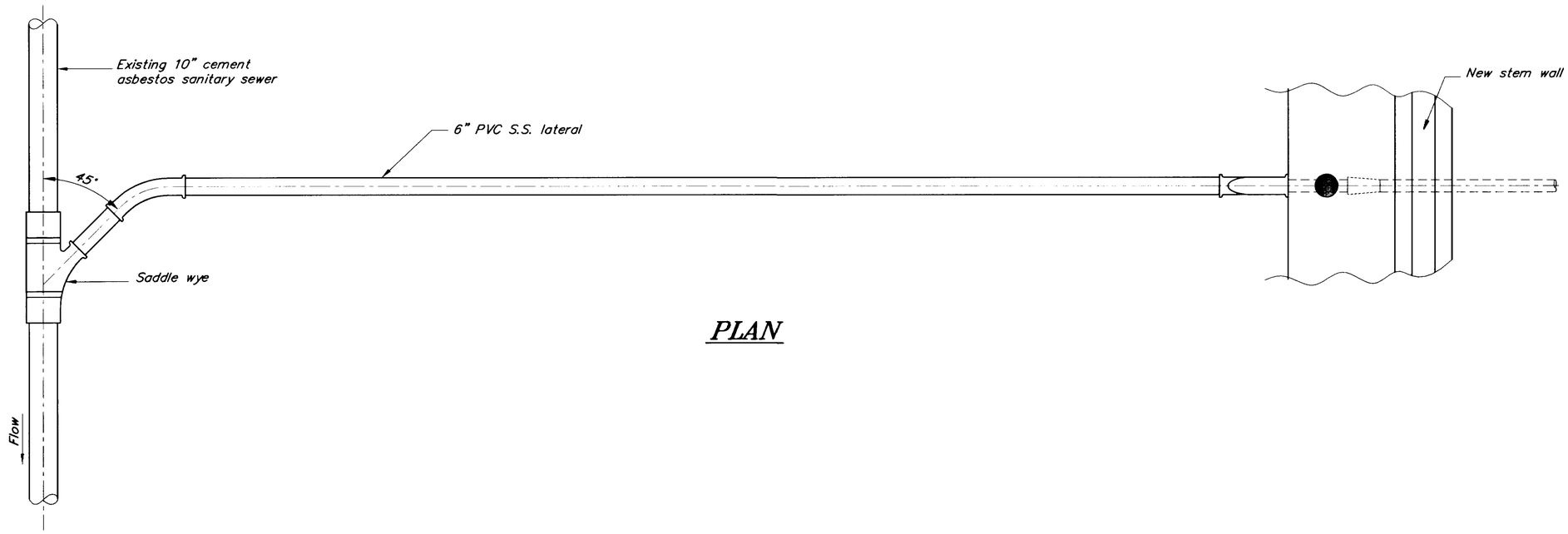
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG **PETERSBURG UPLANDS IMPROVEMENTS** ALASKA
STP-0937(024) ~ PROJECT NO. 75273

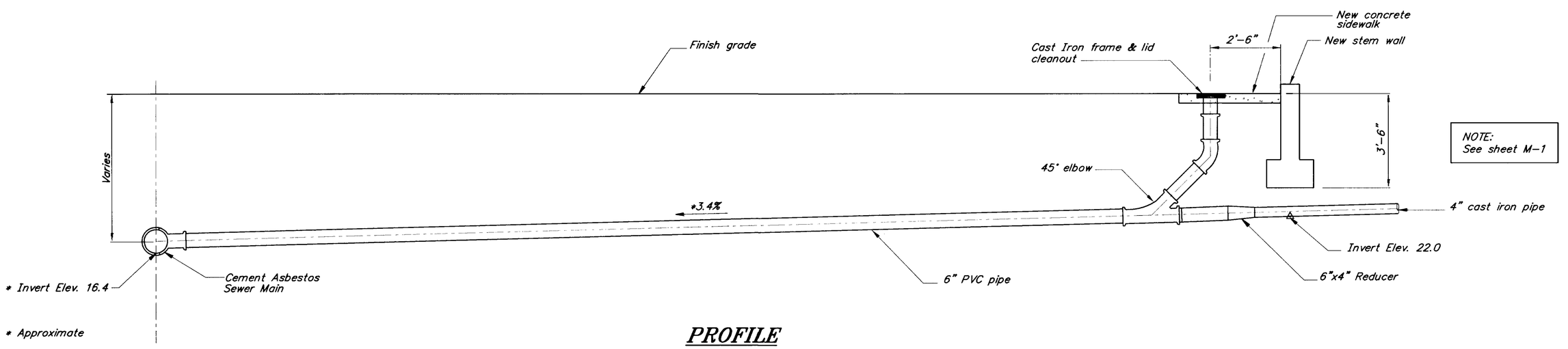
LAYOUT PLAN

DESIGNED BY: BLACKBURN	PROJECT NO. 75273
DRAWN BY: BLACKBURN	DATE: Aug. 1999
CHECKED BY: SALDIVAR	SHEET 34 OF 50

STATE OF ALASKA
DAVID D. SALDIVAR
CE-8307
REGISTERED PROFESSIONAL ENGINEER



PLAN



PROFILE

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH:	[PlotStamp Eval] Q:\Psg\75273\Dr\DETAIL1.dwg Tue, 21/Dec/99 11:29am	
PLOT:	FULL=1 OR HALF=2 VIEW: MAIN, T1	
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

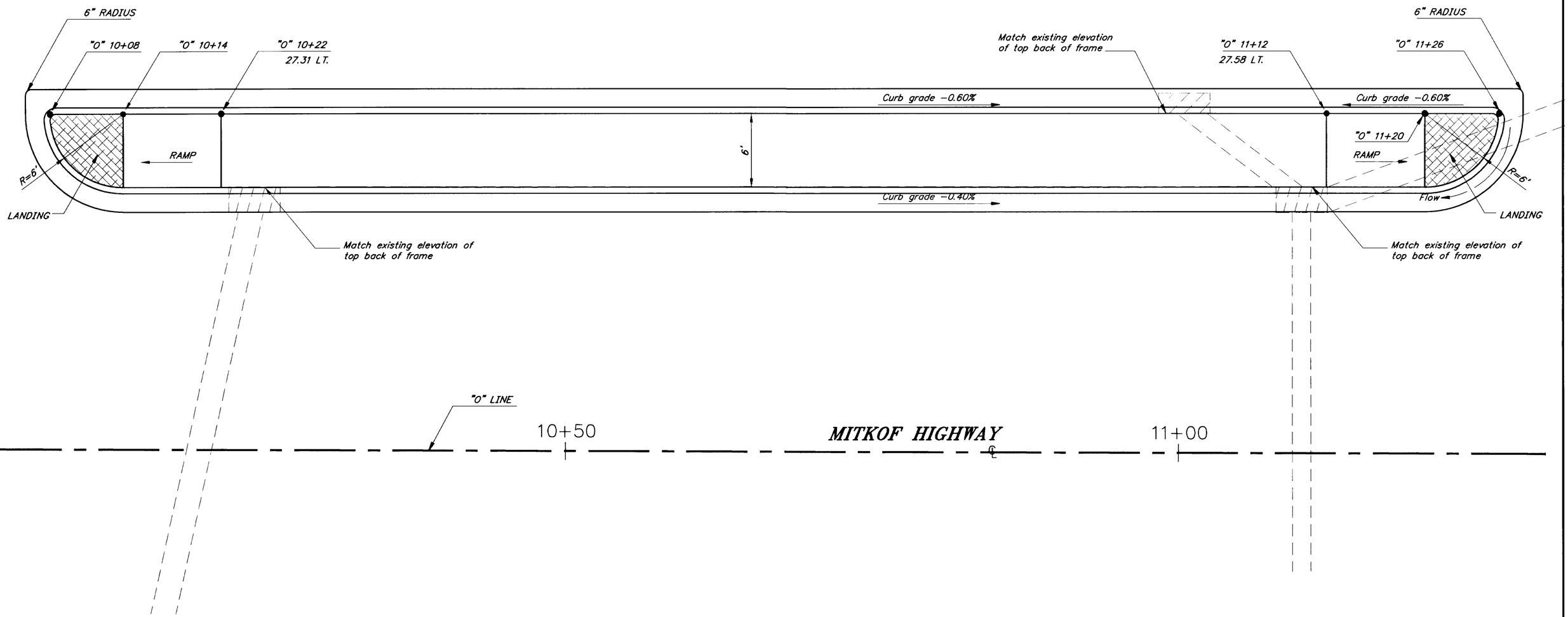
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG — **PETERSBURG UPLANDS IMPROVEMENTS** — ALASKA
STP-0937(024) ~ PROJECT NO. 75273

SANITARY SEWER DETAILS

DESIGNED BY: D. BLACKBURN	PROJECT NO. 75273
DRAWN BY: B. BENNETT	DATE: Aug. 1999
CHECKED BY: D. SALDIVAR	SHEET 35 OF 50

STATE OF ALASKA — David D. Saldivar CE-8307 — REGISTERED PROFESSIONAL ENGINEER



NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

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BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

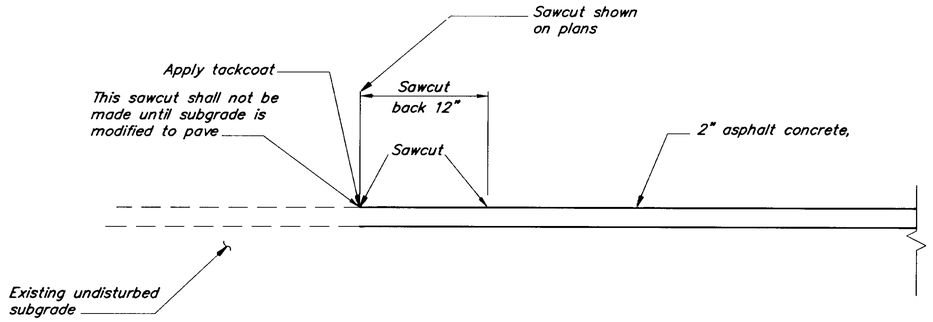
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG **PETERSBURG UPLANDS IMPROVEMENTS** ALASKA
STP-0937(024) ~ PROJECT NO. 75273

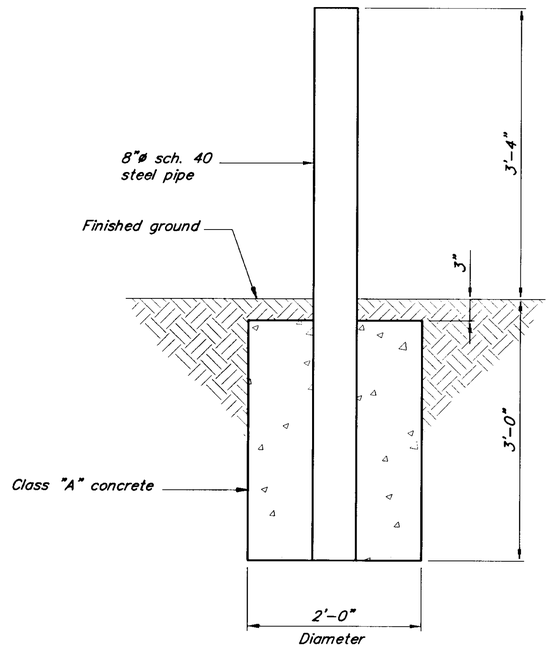
MITKOF HIGHWAY – SIDEWALK LAYOUT

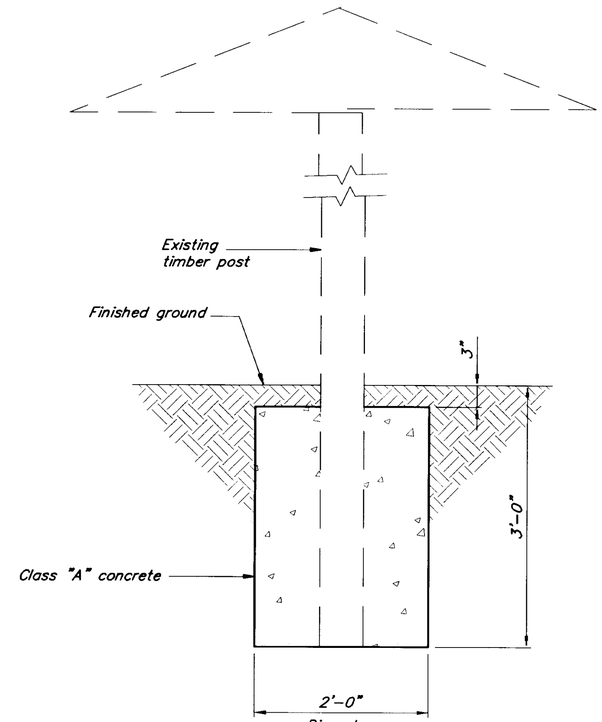
DESIGNED BY: D. BLACKBURN	PROJECT NO. 75273
DRAWN BY: B. BENNETT	DATE: Aug. 1999
CHECKED BY: D. SALDIVAR	SHEET 36 OF 50

STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



PAVEMENT JOINT DETAIL



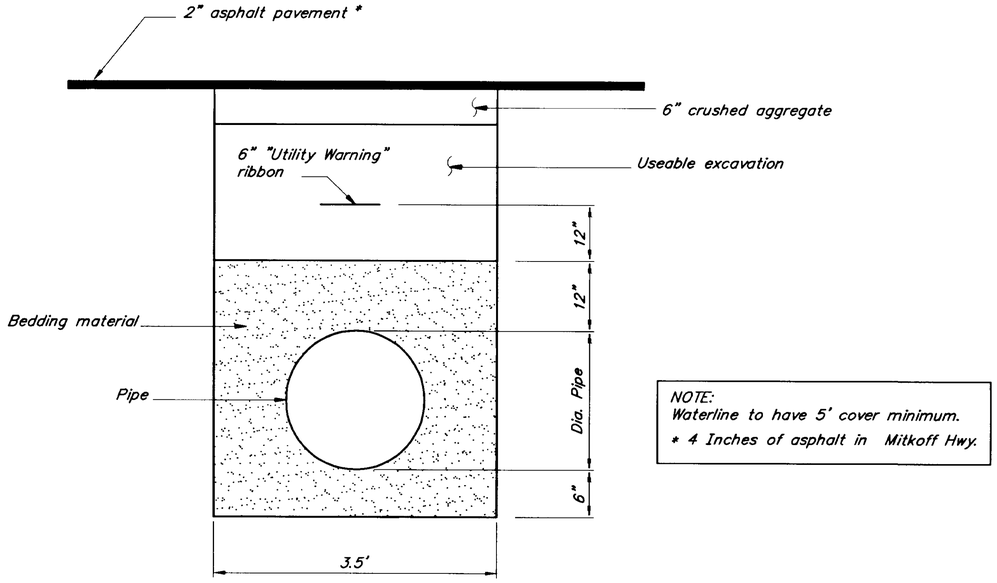


BOLLARD DETAIL

BOLLARD NOTES:

1. Fill each bollard with concrete.
2. Paint bollards catterpillar yellow.

KIOSK SIGN FOOTING DETAIL



NOTE:
Waterline to have 5' cover minimum.
* 4 Inches of asphalt in Mitkoff Hwy.

SANITARY SEWER & WATERLINE TRENCHING DETAIL

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH:	[PlotStamp Eval] Q:\Psg\75273\Dr\DETAIL2.dwg Tue, 21/Dec/99 11:30am		
PLOT:	FULL=4 OR HALF=8		
BY:	DATE:	DESCRIPTION OF CHANGE:	

RECORD OF REVISIONS

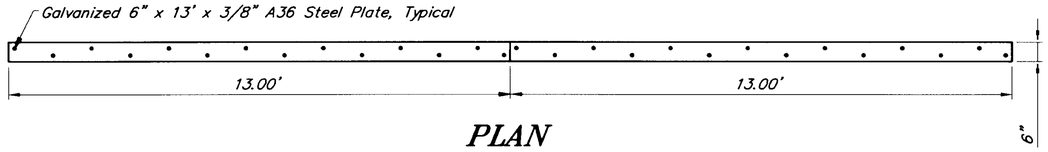
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG — PETERSBURG UPLANDS IMPROVEMENTS — ALASKA
STP-0937(024) ~ PROJECT NO. 75273

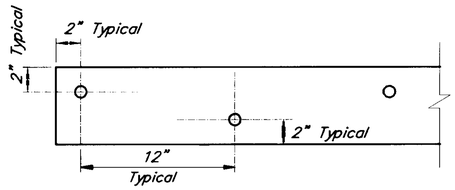
MISCELLANEOUS DETAILS

DESIGNED BY: D. BLACKBURN	PROJECT NO. 75273
DRAWN BY: B. BENNETT	DATE: Aug. 1999
CHECKED BY: D. SALDIVAR	SHEET 37 OF 50

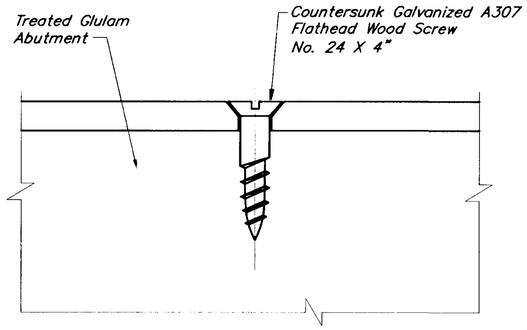
STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



PLAN

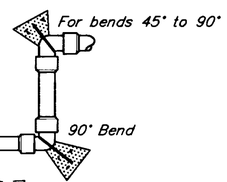


SCREW PATTERN

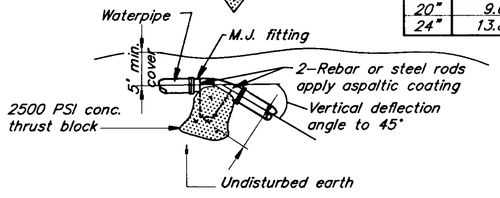


FASTENER DETAIL TYPICAL

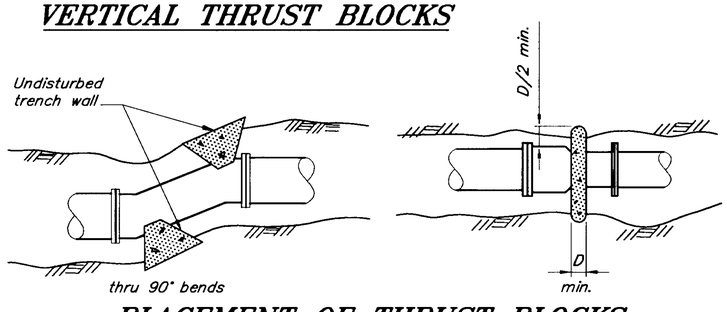
ABUTMENT PLATE DETAILS



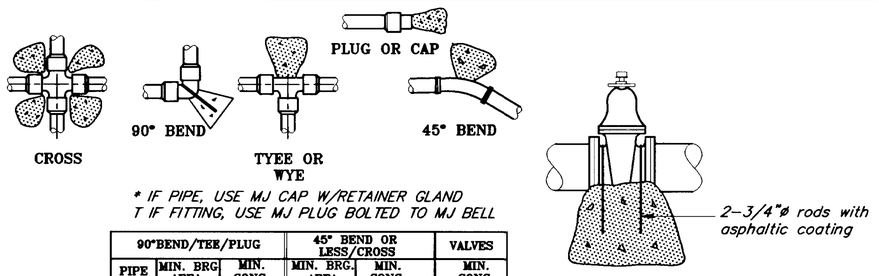
PIPE SIZE	MIN. CONC VOL. (CU.YD.)	MIN. ROD SIZE	MIN. BRG. SURFACE SQ. FT.
6"	1.0	3/4"	3.0
8"	1.5	3/4"	3.5
10"	2.5	3/4"	5.5
12"	3.5	3/4"	8.0
14"	4.7	1"	10.0
16"	6.2	1 1/8"	12.5
18"	7.8	1 1/4"	15.5
20"	9.6	1 3/8"	19.0
24"	13.8	1 1/2"	28.0



VERTICAL THRUST BLOCKS



PLACEMENT OF THRUST BLOCKS



* IF PIPE, USE MJ CAP W/RETAINER GLAND
T IF FITTING, USE MJ PLUG BOLTED TO MJ BELL

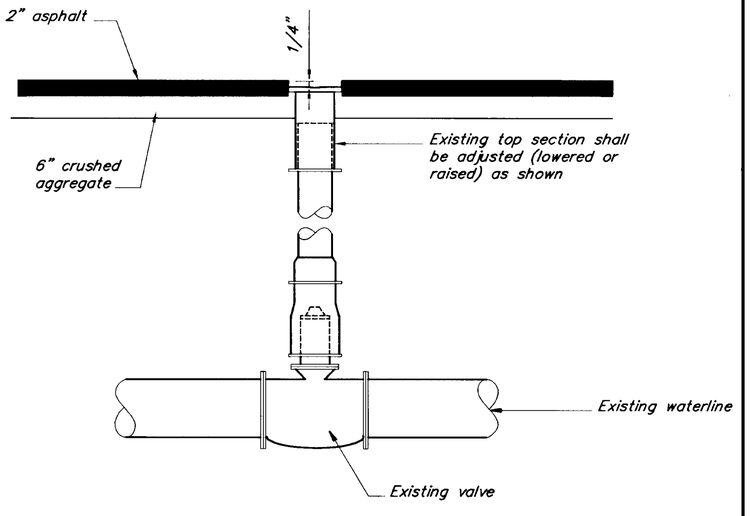
PIPE SIZE	90°BEND/TEE/PLUG MIN. BRG. AREA SQ. FT.	90°BEND/TEE/PLUG MIN. CONC. CU. YD.	45° BEND OR LESS/CROSS MIN. BRG. AREA SQ. FT.	45° BEND OR LESS/CROSS MIN. CONC. CU. YD.	VALVES MIN. CONC. CU. YD.
4"	2.3	0.3	1.0	0.25	N/A
6"	3.0	0.3	1.6	0.25	0.25
8"	5.3	0.5	3.0	0.3	0.5
10"	8.3	0.75	4.5	0.5	0.5
12"	12.0	1.0	6.5	0.75	0.5
14"	16.5	1.0	9.0	0.75	0.75
16"	21.8	1.25	12.0	1.0	0.75
18"	27.0	1.50	15.0	1.0	1.0
20"	34.0	1.75	18.0	1.5	1.0
24"	48.0	2.0	26.3	1.5	1.0

* THRUST BLOCKS ON VALVES REQUIRED ONLY ON MAIN LINES.

HORIZONTAL THRUST BLOCKS

NOTES

1. THRUST BLOCKS ARE REQUIRED WHENEVER PIPELINE CHANGES DIRECTION, CHANGES SIZE, DEAD ENDS, OR DEVELOPS THRUST AT VALVES.
2. VOLUME AND BEARING SURFACE OF 2500 PSI CONC. THRUST BLOCKS, BASED ON 150 PSI PRESSURE AND SOIL BEARING CAPACITY OF 2000 PSF. ALL OTHER PRESSURE AND/OR SOIL CONDITIONS ARE SUBJECT TO ENGINEER'S REVIEW AND APPROVAL.
3. CONCRETE THRUST BLOCKING SHALL BE POURED IN PLACE BETWEEN THE FITTING AND UNDISTURBED EARTH. MATERIAL BEHIND THE THRUST BLOCKS, DEEMED INADEQUATE BY THE ENGINEER, SHALL BE REMOVED AND REPLACED BY A BALLAST MATERIAL, THE EXTENT AND QUALITY OF REPLACEMENT MATERIAL TO BE DETERMINED BY THE ENGINEER.
4. THRUST BLOCKS SHALL BE POURED SO JOINTS OF FITTINGS REMAIN CLEAR.



VALVEBOX ADJUSTMENT

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: [PlotStamp Eval] Q:\Psg\75273\Dr\DETAIL9.dwg Tue, 21/Dec/99 11:31am
PLOT: FULL=1 OR HALF=2

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

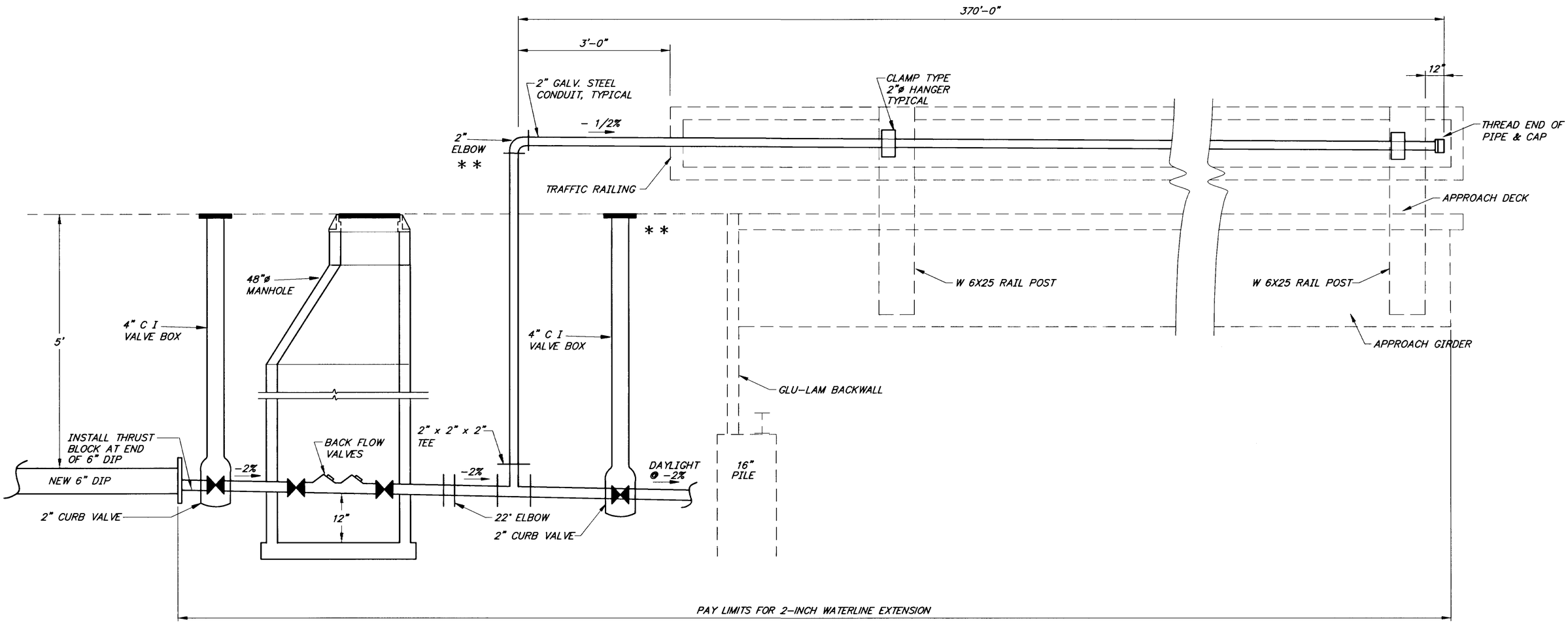
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG — PETERSBURG UPLANDS IMPROVEMENTS — ALASKA
STP-0937(024) ~ PROJECT NO. 75273

WATERLINE & ABUTMENT PLATE DETAILS

DESIGNED BY: D. BLACKBURN	PROJECT NO. 75273
DRAWN BY: B. BENNETT	DATE: Aug. 1999
CHECKED BY: D. SALDIVAR	SHEET 38 OF 50

STATE OF ALASKA — David D. Saldivar — CE-8307 — REGISTERED PROFESSIONAL ENGINEER



* * BOTH 2" RISER AND VALVE BOX WILL BE INSTALLED BEHIND GUARDRAIL. TWO SECTIONS OF GUARDRAIL AND 5 POSTS WILL NEED TO BE REMOVED AND INSTALLED FOR THE 2-INCH WATERLINE EXTENSION.

PROFILE

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: [PlotStamp Eval] 21/Dec/99 Q:\Psg\75273\Dr\water.dwg Rhonda		
PLOT: 1=1(F) OR 1=2(H)		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

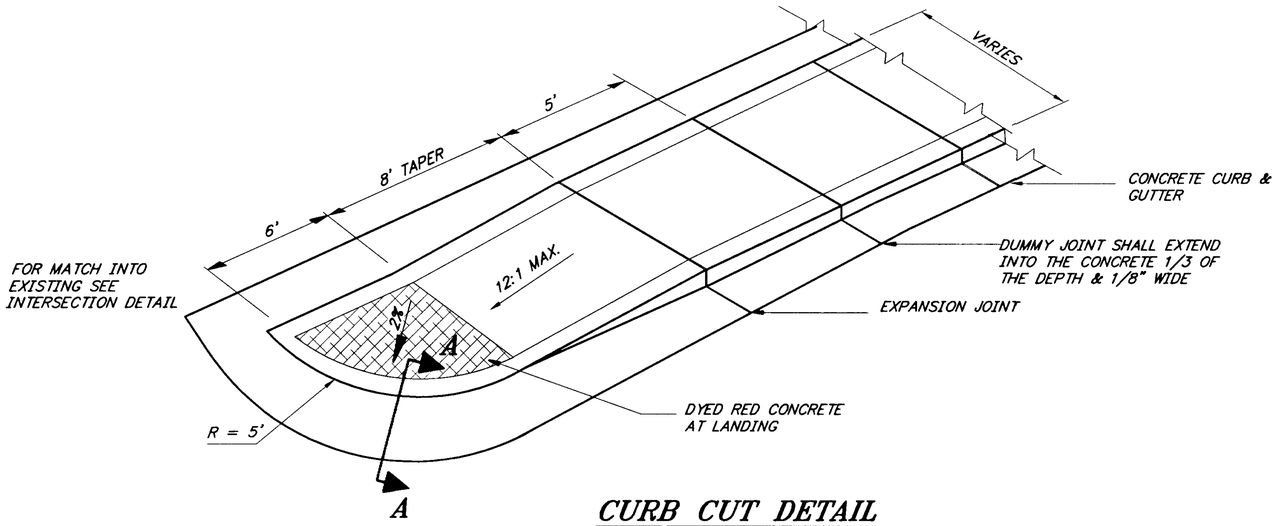
PETERSBURG — ALASKA

PETERSBURG UPLANDS IMPROVEMENTS
STP-0937(024) ~ PROJECT NO. 75273

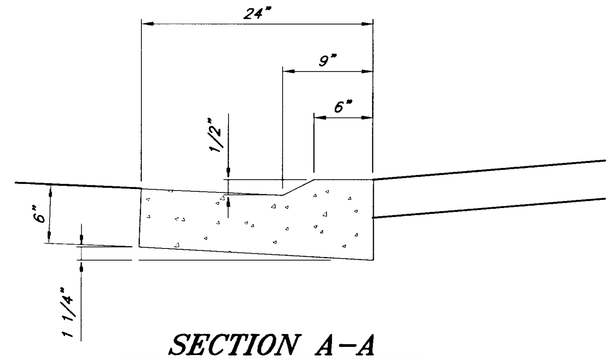
2-INCH WATERLINE EXTENSION

DESIGNED BY: D. BLACKBURN	PROJECT NO. 75273
DRAWN BY: K. KLEMMETSON	DATE: Aug. 1999
CHECKED BY: D. SALDIVAR	SHEET 39 OF 50

STATE OF ALASKA
David D Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER



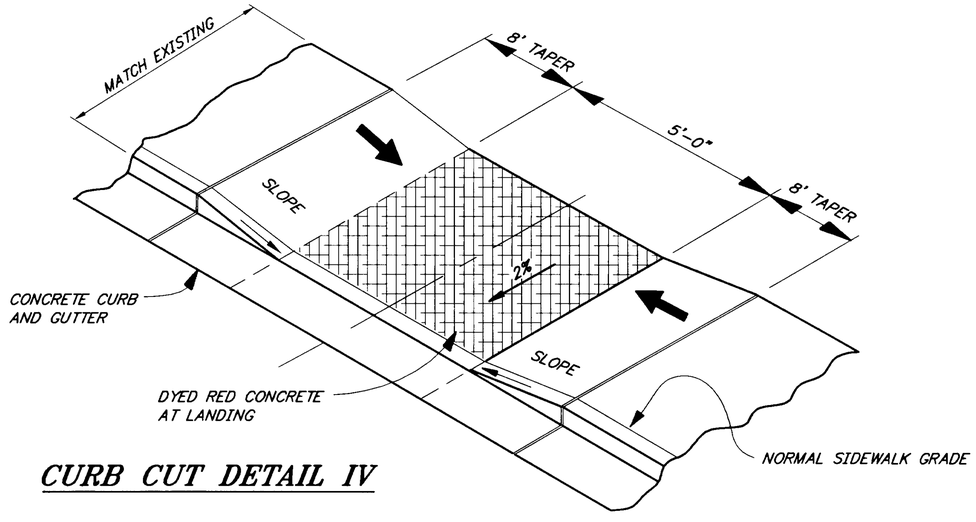
CURB CUT DETAIL
TYPE V



SECTION A–A
DEPRESSED CURB

NOTES:

1. CURB, GUTTER AND SIDEWALK EXPANSION JOINTS SHALL BE AT EACH END OF THE CURB RETURNS AND EVERY 30' MAXIMUM.
2. DUMMY JOINTS IN SIDEWALK SHALL BE EVERY 5'.



CURB CUT DETAIL IV

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: [PlotStamp Eval] Q:\Psg\75273\Dr\DETAIL6.dwg Tue, 21/Dec/99 11:33am		
PLOT: FULL=4 OR HALF=8		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

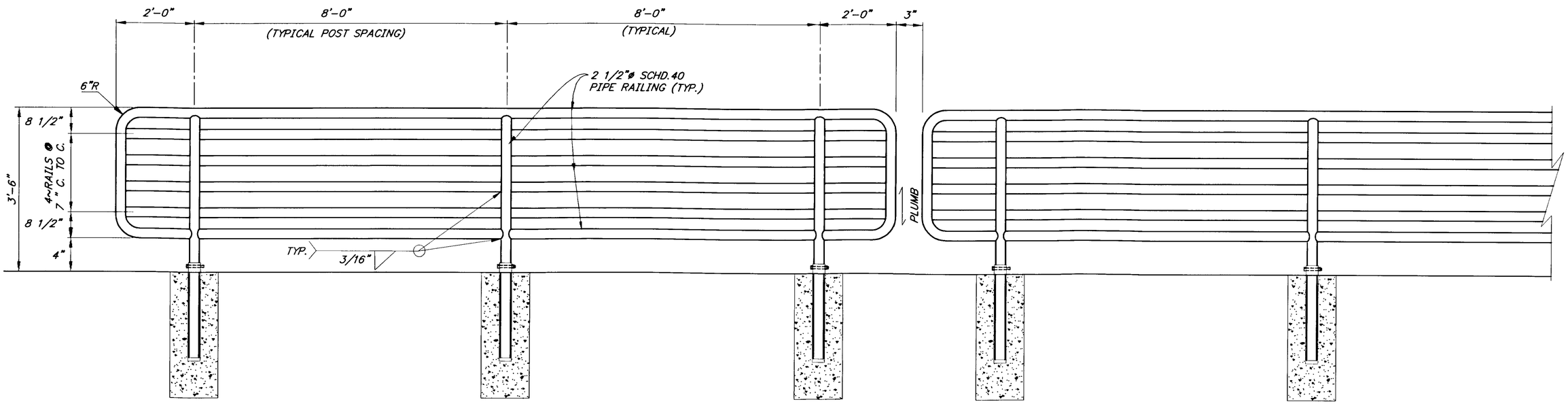
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG — **PETERSBURG UPLANDS IMPROVEMENTS** — ALASKA
STP–0937(024) ~ PROJECT NO. 75273

SIDEWALK & CURB CUT DETAILS

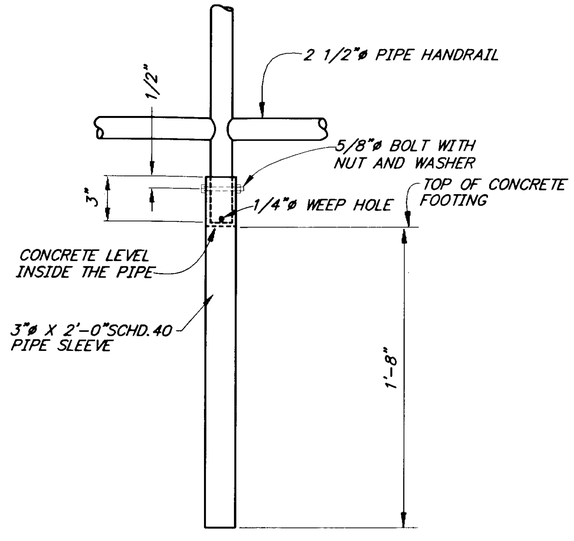
DESIGNED BY: D. BLACKBURN	PROJECT NO. 75273
DRAWN BY: B. BENNETT	DATE: Aug. 1999
CHECKED BY: D. SALDIVAR	SHEET 40 OF 50

STATE OF ALASKA
David D. Saldivar
CE–8307
REGISTERED PROFESSIONAL ENGINEER



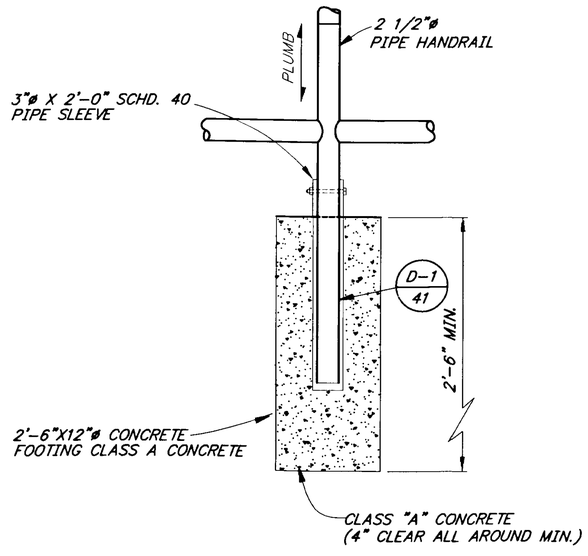
PEDESTRIAN BARRIER

NO SCALE



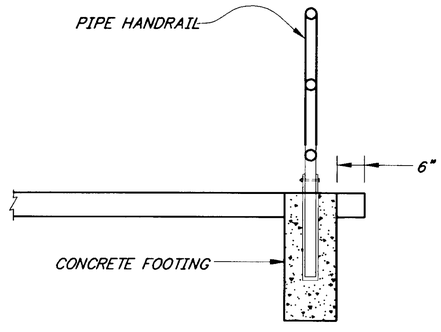
PIPE SLEEVE DETAIL 1

NO SCALE



SECTION A

NO SCALE



CONCRETE FOOTING DETAIL 2

NO SCALE

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

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PLOT: FULL=1 OR HALF=2		
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG — ALASKA

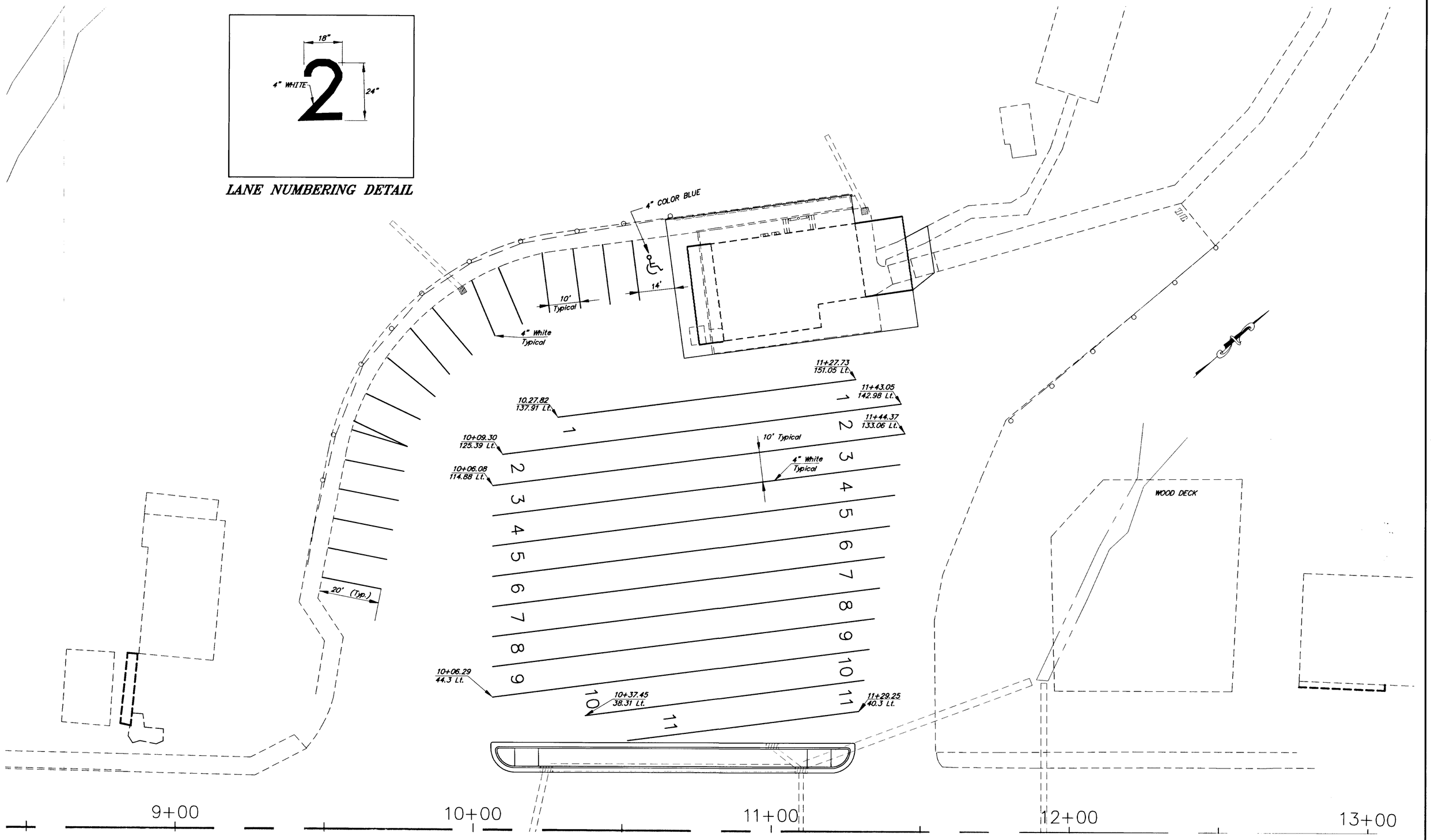
PETERSBURG UPLANDS IMPROVEMENTS
STP-0937(024) ~ PROJECT NO. 75273

PEDESTRIAN BARRIER DETAILS

DESIGNED BY: D. SALDIVAR	PROJECT NO. 75273
DRAWN BY: B. BENNETT	DATE: Aug. 1999
CHECKED BY: D. SALDIVAR	SHEET 41 OF 50

STATE OF ALASKA
David D. Saldivar
CE-8307
REGISTERED PROFESSIONAL ENGINEER

LANE NUMBERING DETAIL



NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

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PLOT: Full=1 or Half=2 Views: Pave, P2		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG — *ALASKA*

PETERSBURG UPLANDS IMPROVEMENTS
STP-0937(024) ~ PROJECT NO. 75273

STRIPING LAYOUT

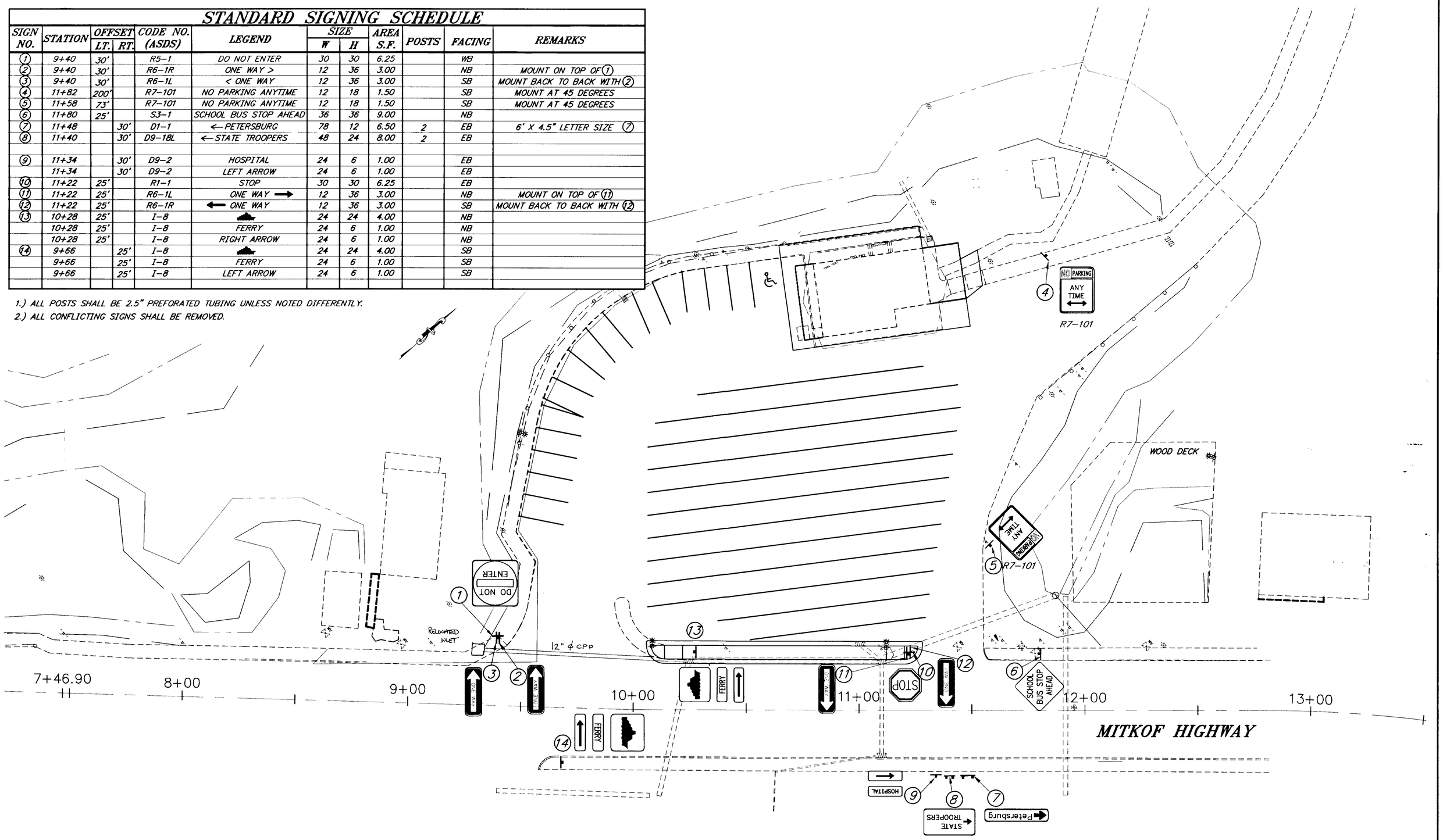
DESIGNED BY: *BLACKBURN*	PROJECT NO. *75273*
DRAWN BY: *BLACKBURN*	DATE: *Aug. 1999*
CHECKED BY: *SALDIVAR*	SHEET *42* OF *50*

STATE OF ALASKA
DAVID D. SALDIVAR
CE-8307
REGISTERED PROFESSIONAL ENGINEER

STANDARD SIGNING SCHEDULE

SIGN NO.	STATION	OFFSET LT.	OFFSET RT.	CODE NO. (ASDS)	LEGEND	SIZE W	SIZE H	AREA S.F.	POSTS	FACING	REMARKS
(1)	9+40	30'		R5-1	DO NOT ENTER	30	30	6.25		WB	
(2)	9+40	30'		R6-1R	ONE WAY >	12	36	3.00		NB	MOUNT ON TOP OF (1)
(3)	9+40	30'		R6-1L	< ONE WAY	12	36	3.00		SB	MOUNT BACK TO BACK WITH (2)
(4)	11+82	200'		R7-101	NO PARKING ANYTIME	12	18	1.50		SB	MOUNT AT 45 DEGREES
(5)	11+58	73'		R7-101	NO PARKING ANYTIME	12	18	1.50		SB	MOUNT AT 45 DEGREES
(6)	11+80	25'		S3-1	SCHOOL BUS STOP AHEAD	36	36	9.00		NB	
(7)	11+48		30'	D1-1	← PETERSBURG	78	12	6.50	2	EB	6' X 4.5" LETTER SIZE (7)
(8)	11+40		30'	D9-18L	← STATE TROOPERS	48	24	8.00	2	EB	
(9)	11+34		30'	D9-2	HOSPITAL	24	6	1.00		EB	
	11+34		30'	D9-2	LEFT ARROW	24	6	1.00		EB	
(10)	11+22	25'		R1-1	STOP	30	30	6.25		EB	
(11)	11+22	25'		R6-1L	ONE WAY →	12	36	3.00		NB	MOUNT ON TOP OF (11)
(12)	11+22	25'		R6-1R	← ONE WAY	12	36	3.00		SB	MOUNT BACK TO BACK WITH (12)
(13)	10+28	25'		I-8		24	24	4.00		NB	
	10+28	25'		I-8	FERRY	24	6	1.00		NB	
	10+28	25'		I-8	RIGHT ARROW	24	6	1.00		NB	
(14)	9+66		25'	I-8		24	24	4.00		SB	
	9+66		25'	I-8	FERRY	24	6	1.00		SB	
	9+66		25'	I-8	LEFT ARROW	24	6	1.00		SB	

1.) ALL POSTS SHALL BE 2.5" PREFORATED TUBING UNLESS NOTED DIFFERENTLY.
2.) ALL CONFLICTING SIGNS SHALL BE REMOVED.



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: [PlotStamp Eval] Q:\Psg\75273\Dr\SIGNING.dwg Tue, 21/Dec/99 11:36am
PLOT: Full=1 or Half=2 Views: PLAN, P2

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG — ALASKA

PETERSBURG UPLANDS IMPROVEMENTS
STP-0937(024) ~ PROJECT NO. 75273

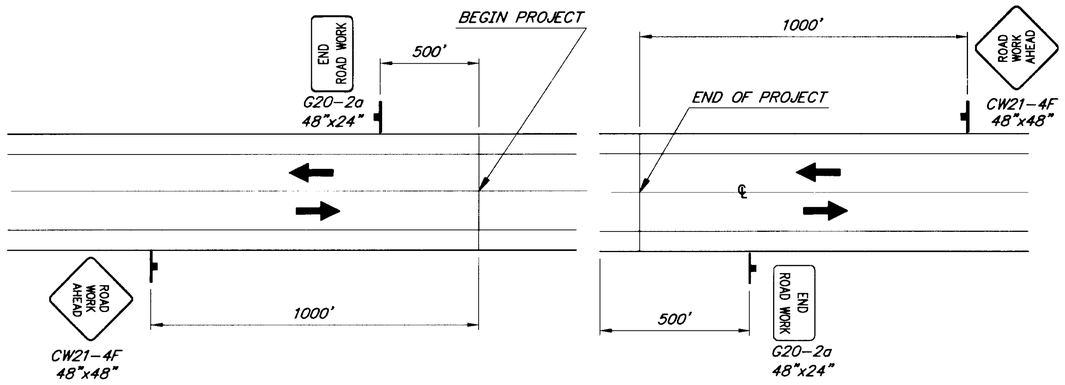
SIGNING LAYOUT

DESIGNED BY: BLACKBURN	PROJECT NO. 75273
DRAWN BY: BLACKBURN	DATE: Aug. 1999
CHECKED BY: PURVES	SHEET 43 OF 50

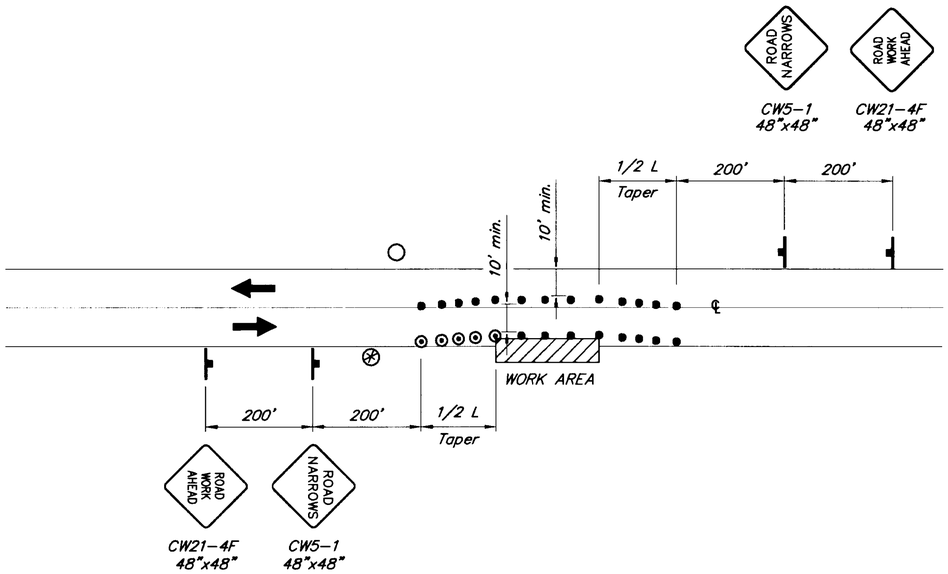
STATE OF ALASKA
49th
MICHAEL LUKSHIN
CE-8737
REGISTERED PROFESSIONAL ENGINEER

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 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. Emergency access to the Airport will be maintained at all times.
5. The Contractor will attempt to restore access to businesses and homes as soon as possible. Access to businesses will not be shut off for more than a 12–hour period.
6. 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.
7. If traffic delays become longer than 3 minutes average per vehicle, the Project Engineer may require night time operations.
8. A single flagger may be approved by the Project Engineer if the entire work is visible from the flagger station.



PERMANENT CONSTRUCTION SIGNING



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

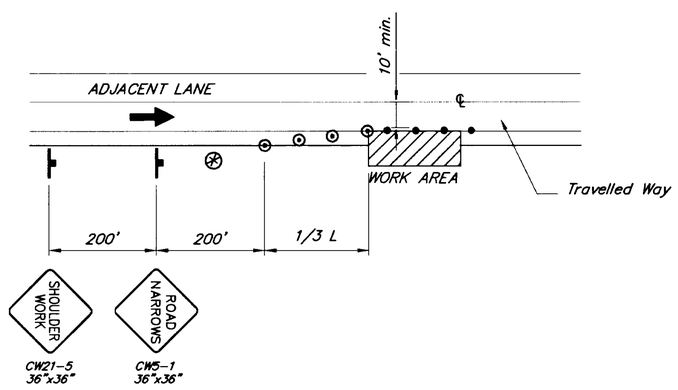
FORMULAS FOR L (TAPER LENGTH)

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	7:1
25	55	25	10:1
30	85	30	15:1
35	120	35	20:1
40	170	40	40:1
45	220	45	45:1
50	280	50	50:1
55	335	55	55:1
60	415	60	60:1
65	485	65	65:1



SHOULDER WORK

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

PATH: [PlotStamp Eval] Q:\Psg\75273\Dr\TCP1.dwg Tue, 21/Dec/99 11:39am
PLOT: FULL=1 OR HALF=2

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG

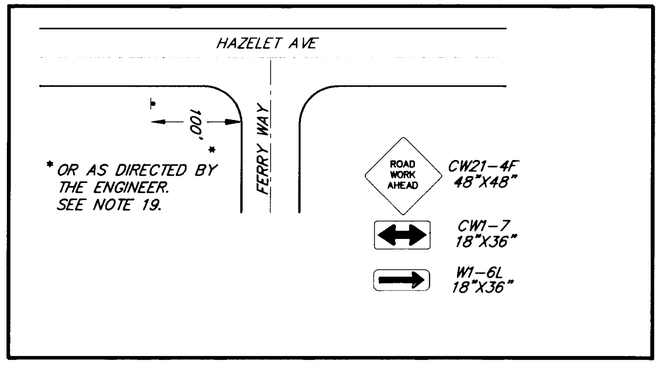
PETERSBURG UPLANDS IMPROVEMENTS
STP–0937(024) ~ PROJECT NO. 75273

ALASKA

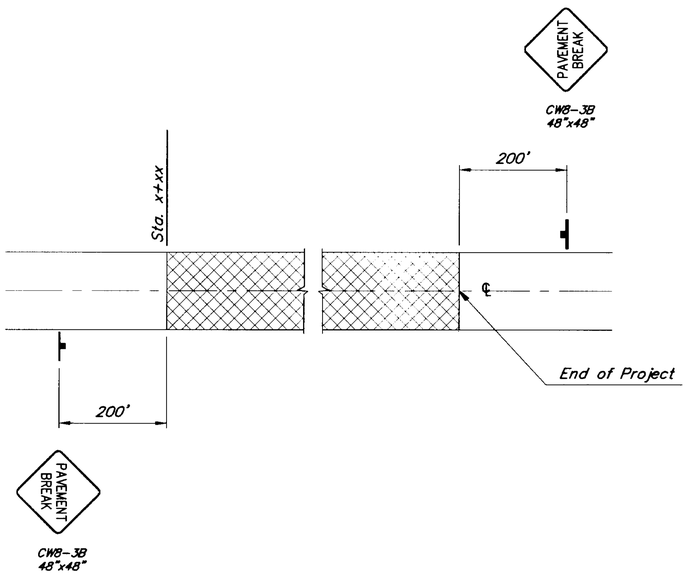
TRAFFIC CONTROL PLAN

DESIGNED BY: M. LUKSHIN	PROJECT NO. 75273
DRAWN BY: B. BENNETT	DATE: Aug. 1999
CHECKED BY: M. LUKSHIN	SHEET 44 OF 50

STATE OF ALASKA 49th Michael Lukshin CE–8737 REGISTERED PROFESSIONAL ENGINEER



PERMANENT CONSTRUCTION SIGNING



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

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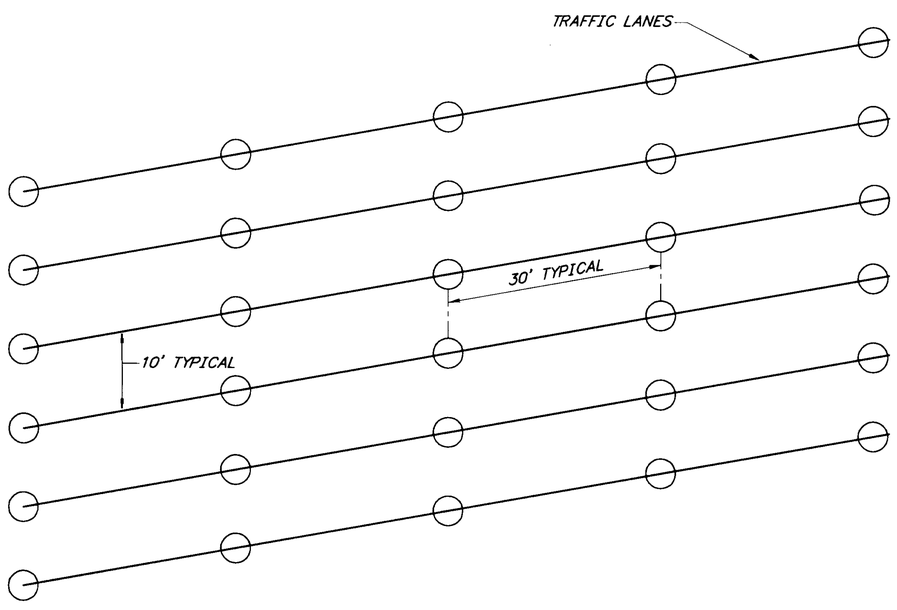
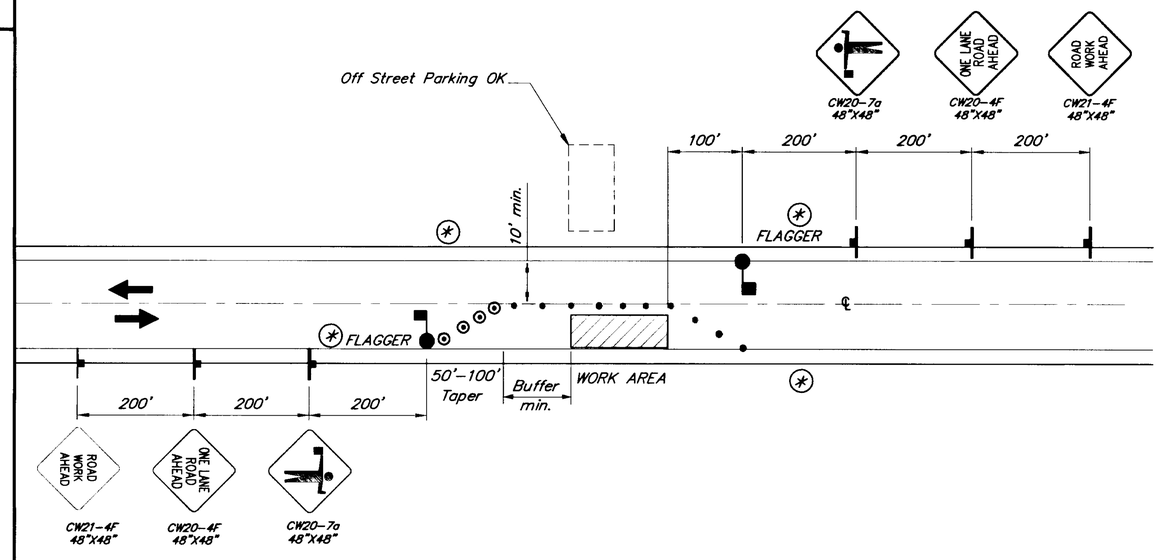
45	220	45	45:1
50	280	50	50:1
55	335	55	55:1
60	415	60	60:1
65	485	65	65:1



TEMPORAY TRAFFIC CONE MARKINGS FOR STAGING AREA



SINGLE LANE CLOSURE
TWO LANE ROAD

NOTE: DO NOT SCALE FROM THESE PLANS–USE DIMENSIONS

PATH: [PlotStamp Ewal] Q:\Psg\75273\Dr\TCP2.dwg Tue, 21/Dec/99 11:43am
PLOT: FULL=1 OR HALF=2

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

PETERSBURG

PETERSBURG UPLANDS IMPROVEMENTS
STP-0937(024) ~ PROJECT NO. 75273

ALASKA

TRAFFIC CONTROL PLAN

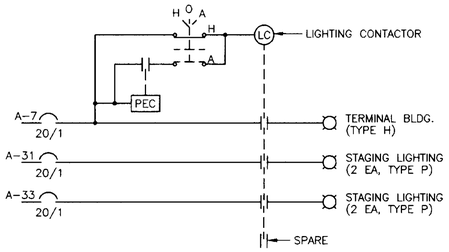
DESIGNED BY: M. LUKSHIN	PROJECT NO. 75273
DRAWN BY: B. BENNETT	DATE: Aug. 1999
CHECKED BY: M. LUKSHIN	SHEET 45 OF 50

STATE OF ALASKA
49th
Michael Lukshin
CE-8737
REGISTERED PROFESSIONAL ENGINEER

GRAPHIC SCALE (FEET)

0 5' 10' 20' 40' 80'

NOTE: SCALE 1" = 20-0" AT 22" X 34" SHEET ONLY.



SCHEMATIC – EXTERIOR LIGHTING CONTROLS

NO SCALE

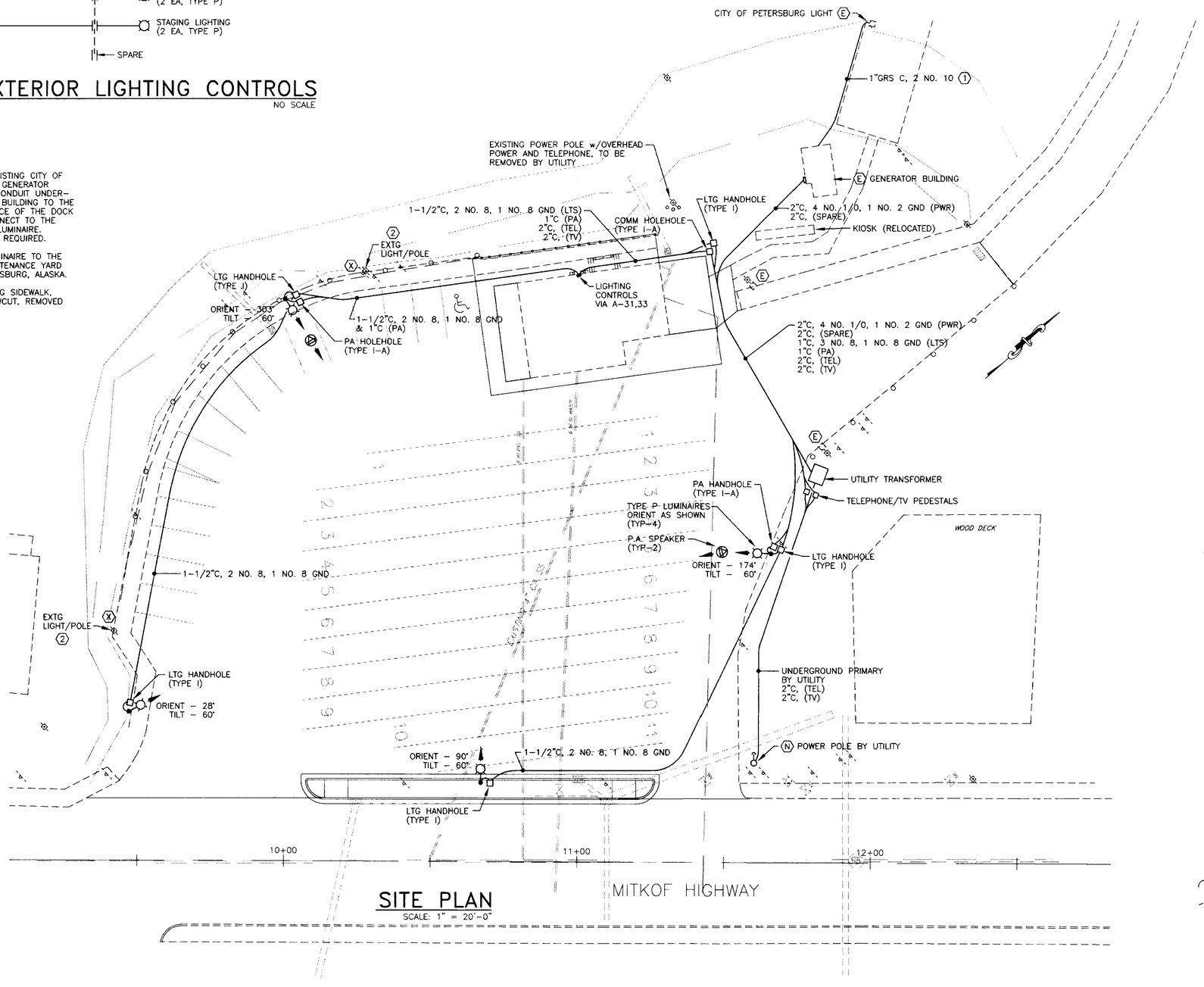
LUMINAIRE SCHEDULE

* NOTE: BRAND NAME SHOWN TO IDENTIFY DESIGN CRITERIA. PROVIDE ACCEPTED EQUIVALENT PRODUCTS.

TYPE	DESCRIPTION	MANUFACTURER *	LAMPS	REMARKS
P	MARINE HEAVY DUTY FLOODLIGHT (PREDATOR) MOUNTED ON 40' SQUARE POLE WITH CLIMBING PEGS, (2 EA) WITH TWIN ARM POLE TOP ASSEMBLY. UTILIZE SECOND ARM FOR P.A. SPEAKER.	HOLOPHANE PF-40LHP-12-L-W-3-G-A GIWCO, INC. POLE: GSQ640/GB-1/G-2	(1) 400W HPS	

SITE NOTES:

1. PROVIDE A CIRCUIT FOR THE EXISTING CITY OF PETERSBURG PARK LIGHT FROM GENERATOR BUILDING PANEL. ROUTE THE CONDUIT UNDER-GROUND FROM THE GENERATOR BUILDING TO THE DOCK AND THEN ALONG THE FACE OF THE DOCK AND UP THE LIGHT POLE. CONNECT TO THE EXISTING CONDUCTORS AT THE LUMINAIRE. PROVIDE ALL CONDUIT SUPPORT REQUIRED.
2. TURN OVER MAST ARM AND LUMINAIRE TO THE STATE OF ALASKA, DOT/PF MAINTENANCE YARD AT 228 MITKOF HIGHWAY, PETERSBURG, ALASKA.
3. AT TWO LOCATIONS, THE EXISTING SIDEWALK, CURB AND GUTTER WILL BE SAWCUT, REMOVED AND REPLACED.



SITE PLAN

SCALE: 1" = 20'-0"

LEGEND

AFF	ABOVE FINISHED FLOOR
FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT INTERRUPTER
TTB	TELEPHONE TERMINAL BOARD
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
XFMR	TRANSFORMER
S	SINGLE POLE SWITCH
S_a	SUBSCRIPT DENOTES LUMINAIRE SWITCHED
S_M	MANUAL STARTER
LC	LIGHTING CONTACTOR
NS	NON SWITCHED
PE	PHOTOELECTRIC CELL
	FLUORESCENT LUMINAIRE, EQUIP W/ SINGLE EMERGENCY BALLAST WHERE SHOWN. BODINE B50 F-48 OR APPROVED EQUAL.
	FLUORESCENT LUMINAIRE
	CEILING MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	EXTERIOR WALL MOUNTED LUMINAIRE
	WALL MOUNTED EXIT LUMINAIRE
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	RECEPTACLE RACEWAY
	ISOLATED GROUND RECEPTACLE
	SPECIAL RECEPTACLE
	250V SINGLE PHASE RECEPTACLE
	JUNCTION BOX
	DATA/COMMUNICATION RECEPTACLE
	PANELBOARD
	MAIN DISTRIBUTION PANEL
	MOTOR CONNECTION
	MOTOR STARTER
	COMBINATION STARTER/DISCONNECT
	DISCONNECT
	ISOLATED GROUND BUS
	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT DETECTOR
	MANUAL PULL STATION
	FIRE ALARM HORN/STROBE
	FIRE ALARM STROBE ONLY
EOL	END-OF-LINE
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	SPRINKLER PRESSURE SWITCH
	WALL MOUNTED SPEAKER
	CEILING SPEAKER
M	MICROPHONE
	HOMERUN
	CONDUIT: 1/2" UON
	UNGROUNDED CONDUCTORS
	NEUTRAL: #10 WITH DOT, #12 OTHERWISE
	GROUND CONDUCTOR
	CONDUCTORS NOT SHOWN WHERE ONLY #12 NEUTRAL AND UNGROUNDED CONDUCTOR ARE REQUIRED
	FLEXIBLE CONDUIT
	CONDUIT UNDER CONCRETE SLAB

A. E. ROGERS ARCHITECTS
P.O. Box 34401, Juneau, Alaska 99803
(907) 789-7589
(FAX) 789-1638

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

Alaska Marine Highway System
State No. 75273
Fed. No. STP-0937 (024)

PETERSBURG UPLANDS IMPROVEMENTS
1100 N. Nordic Drive
Petersburg, Alaska 99833

Revision	
Mk	Date

Drawn: PEL
Checked: TSM
Date: 16 AUGUST 1999

STATE OF ALASKA 49th T.S. McLAUGHLIN EE 8499 REGISTERED PROFESSIONAL ENGINEER

Proj. No. 179-19a

Title: SITE ILLUMINATION SYSTEM

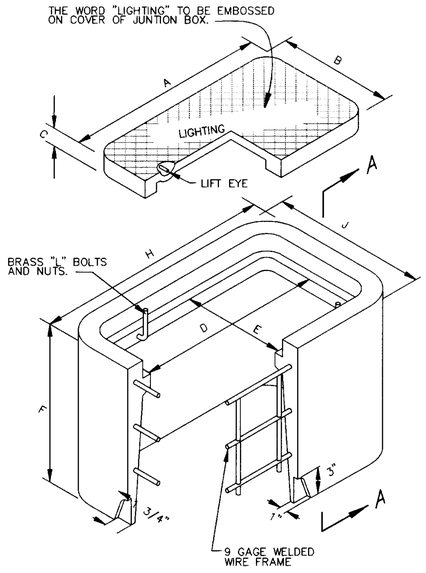
46 OF 50

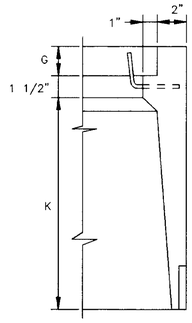
C:\Projects\179\19dE1

GRAPHIC SCALE (FEET)

0 1' 2' 4' 8' 16'

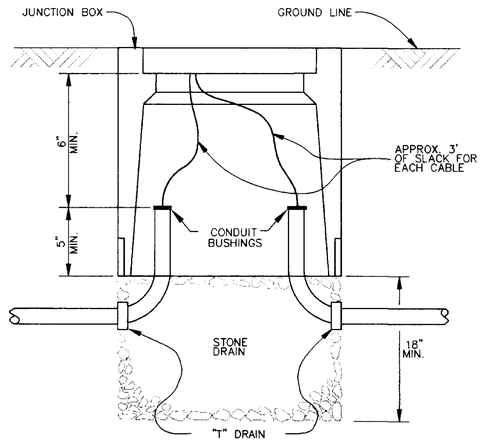
NOTE: SCALE 1" = 20-0" AT 22" X 34" SHEET ONLY.





SECTION A-A

	DIMENSIONS (IN.)	
	TYPE I	TYPE I-A
A	15	22 3/4
B	10	13 1/4
C	1 3/4	2
D	13 1/2	21 1/4
E	8 1/2	11 3/4
F	12	18
G	1 3/4	2
H	19 1/2	27 1/4
J	14 1/2	17 3/4
K	8 3/4	14 1/2

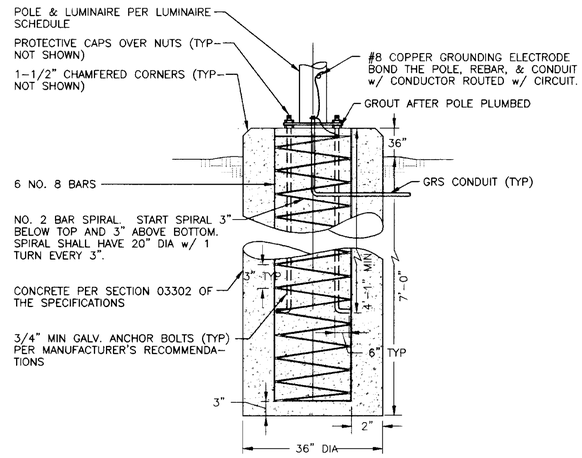


DETAIL - TYPE I & I-A HANDHOLES

NO SCALE

HANDHOLE NOTES:

1. TYPE I HANDHOLES SHALL BE UTILIZED FOR THE LIGHTING CIRCUITS. THE TYPE I-A SHALL BE UTILIZED FOR THE UTILITIES, AND PA SYSTEM.
2. COVERS FOR THE TYPE I & 1-A HANDHOLES SHALL BE EITHER ALUMINUM OR CAST IRON.
3. HANDHOLES LOCATED IN A SIDEWALK SHALL BE INSTALLED WITH A 1/2" PREFORMED BITUMINOUS JOINT MATERIAL AROUND ITS PERIMETER.
4. ALL CONDUIT SHALL BE BONDED TO FOR A CONTINUOUS ELECTRICALLY SECURE SYSTEM WITH THE GROUND AT THE LOAD CENTER JUNCTION BOX.
5. ALL HANDHOLE COVERS SHALL BE BONDED TO GROUND WITH COPPER BRAID OF #8 AWG CROSS SECTION. FOR TYPES I & I-A, THE LENGTH SHALL BE 3 FEET.
6. ALL CONDUITS SHALL BE GROUTED IN KNOCKOUT SECTIONS IN ACCORDANCE WITH THE ALASKA SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
7. HANDHOLES SHALL BE SET FLUSH WITH THE SURROUNDING SURFACE EXCEPT IN AN UNPAVED SHOULDER, WHEN THEY SHALL BE LOCATED 2" BELOW GRADE.

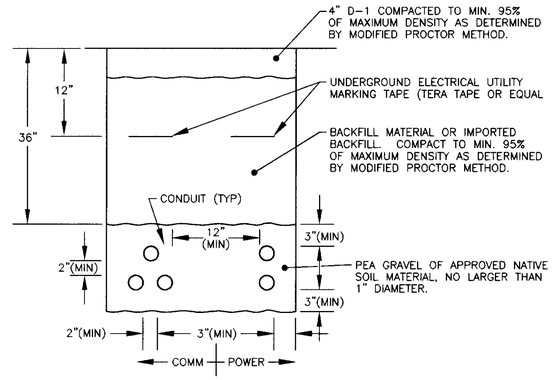


DETAIL - POLE BASE FOUNDATION

NO SCALE

NOTES:

1. BACKFILL w/ N.F.S. SAND & GRAVEL COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
2. ANCHOR BOLTS TO MEET ATSM-A36 w/ MINIMUM YEILD STRESS OF 36.0 KSI.



TRENCH DETAIL

NO SCALE

A. E. ROGERS
ARCHITECTS
P.O. Box 34401, Juneau, Alaska 99803
(907) 789-7589
(FAX) 789-1638

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
419 Harris Street, Juneau, Alaska 99801 (907) 586-9788

Alaska Marine Highway System

State No. 75273
Fed. No. STP-0937 (024)

PETERSBURG UPLANDS IMPROVEMENTS

1100 N. Nordic Drive
Petersburg, Alaska 99833

Revision	
Mk	Date

Drawn PEL

Checked TSM

Date 16 AUGUST 1999

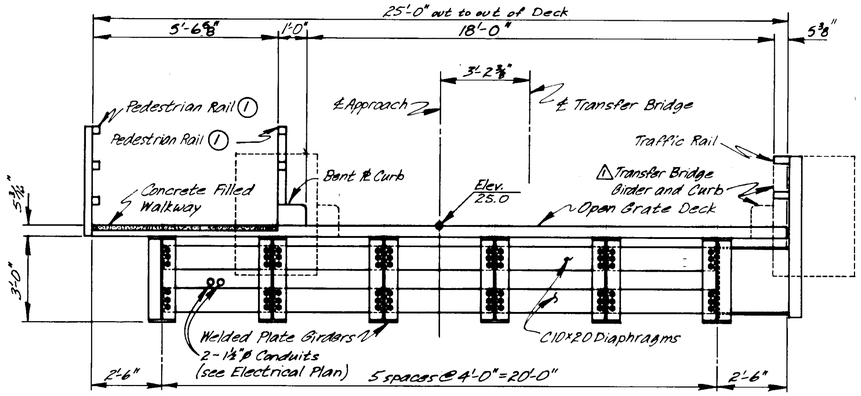
STATE OF ALASKA 49th
T.S. McLAUGHLIN
EE 8499
REGISTERED PROFESSIONAL ENGINEER

Proj. No. 179-19a

Title
ELECTRICAL DETAILS

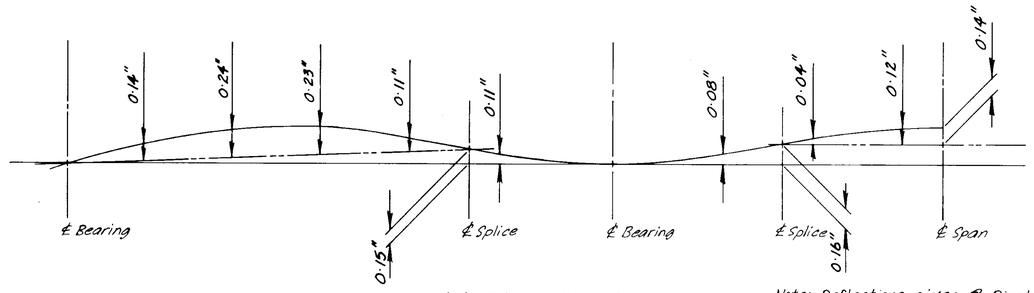
47 OF 50

C:\Projects\179\19eE2



TYPICAL SECTION

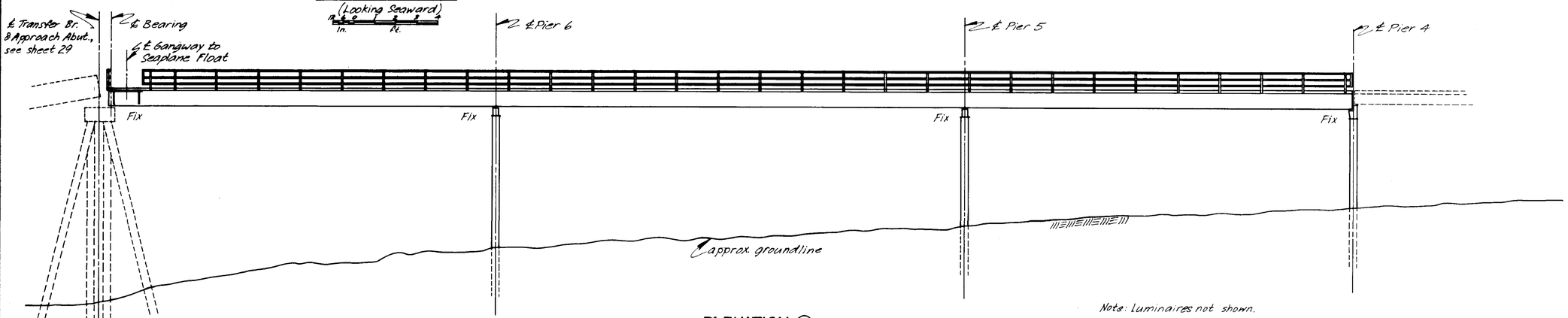
(Looking Seaward)



CAMBER DIAGRAM

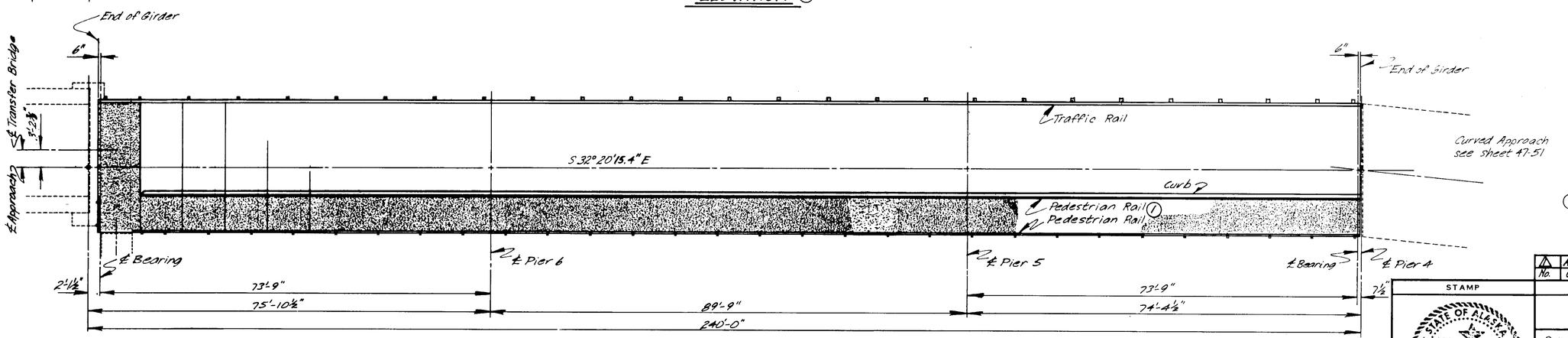
N.T.S.

Note: Deflections given @ Diaphragm and Splice locations.



ELEVATION (1)

Note: Luminaires not shown.



PLAN

(1) Note: Alternate "A" shown this sheet for Alternate "B", see details sheet 60

No.		Date	By
⚠	Add Transfer Bridge Girder and Curb	3/85	LJB
	Corrections		

STAMP

STATE OF ALASKA 49TH
John T. Scott, II
CE 4755
REGISTERED PROFESSIONAL ENGINEER
2-25-85

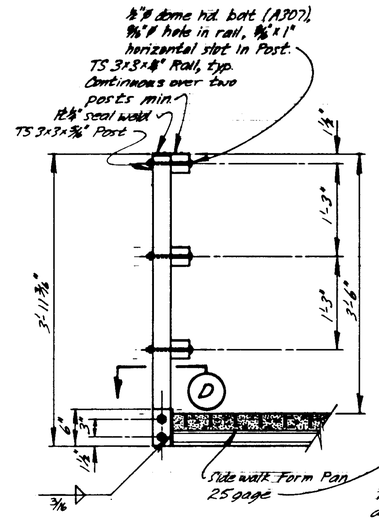
DO NOT SCALE THIS DRAWING – USE DIMENSIONS

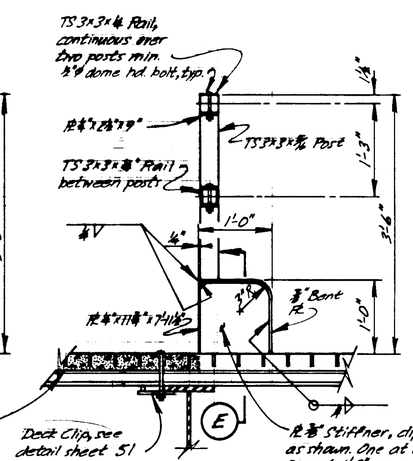
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

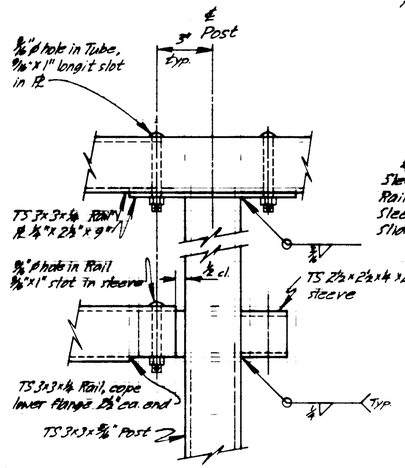
Petersburg Alaska

CONTINUOUS APPROACH LAYOUT

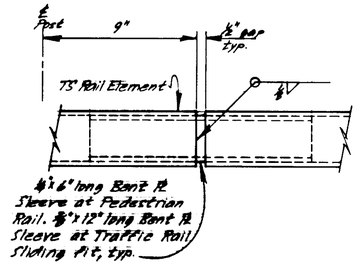
SCALE As Noted	SURVEYED	APPROVED	
DESIGNED VS	DRAWN LWB		
CHECKED BS	DATE 1/84		
PROJECT NUMBER A38502	SHEET 43 OF 62		



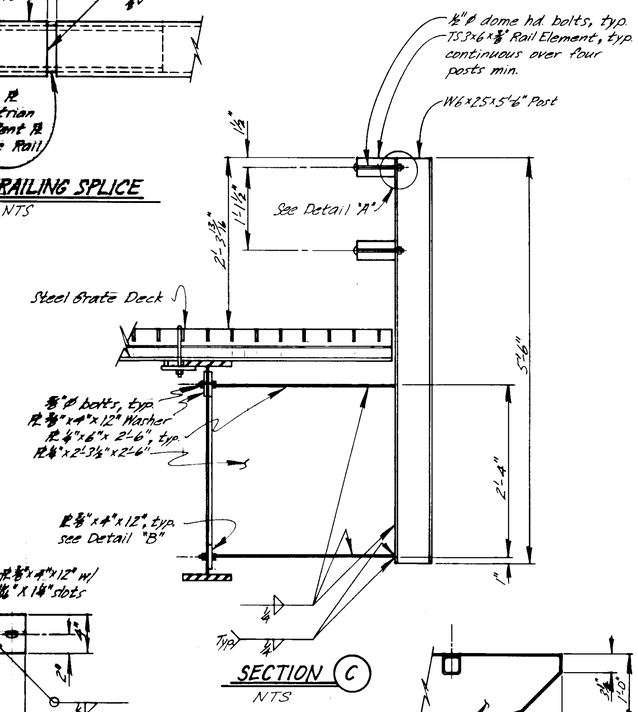


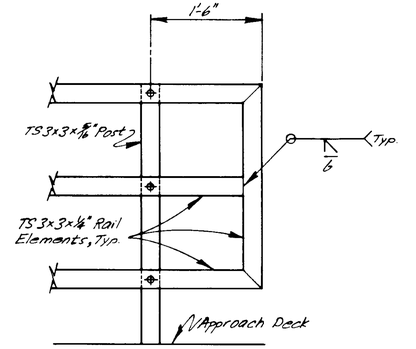


RAIL POST DETAIL ⑥
NTS

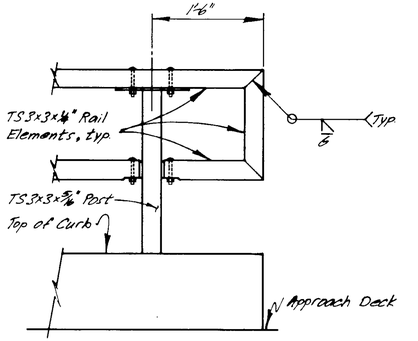


TYPICAL RAILING SPLICE
NTS

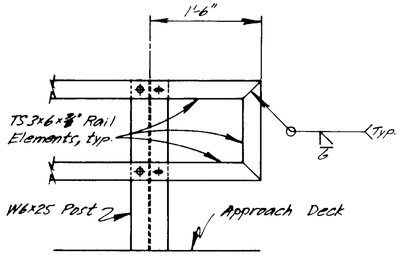




PEDESTRIAN RAIL ⑥

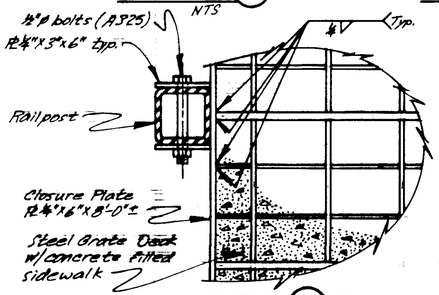


CURB w/ PEDESTRIAN RAIL ⑥



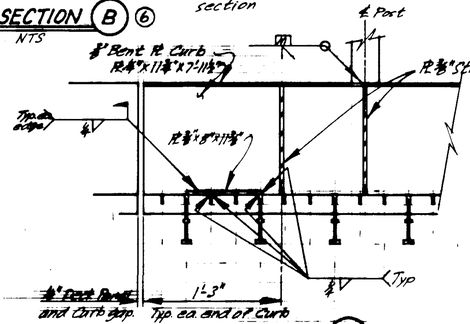
TRAFFIC RAIL
RAILING END TREATMENT
NTS

SECTION A ⑥
NTS

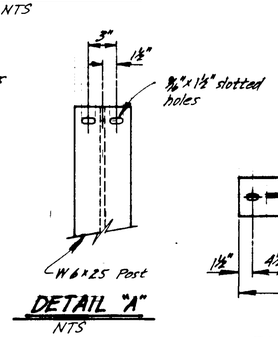


SECTION D ⑥
NTS

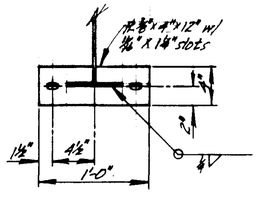
SECTION B ⑥
NTS



SECTION E
NTS



DETAIL "A"
NTS



DETAIL "B"
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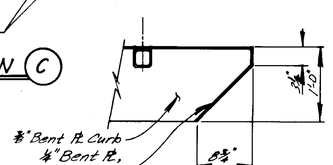
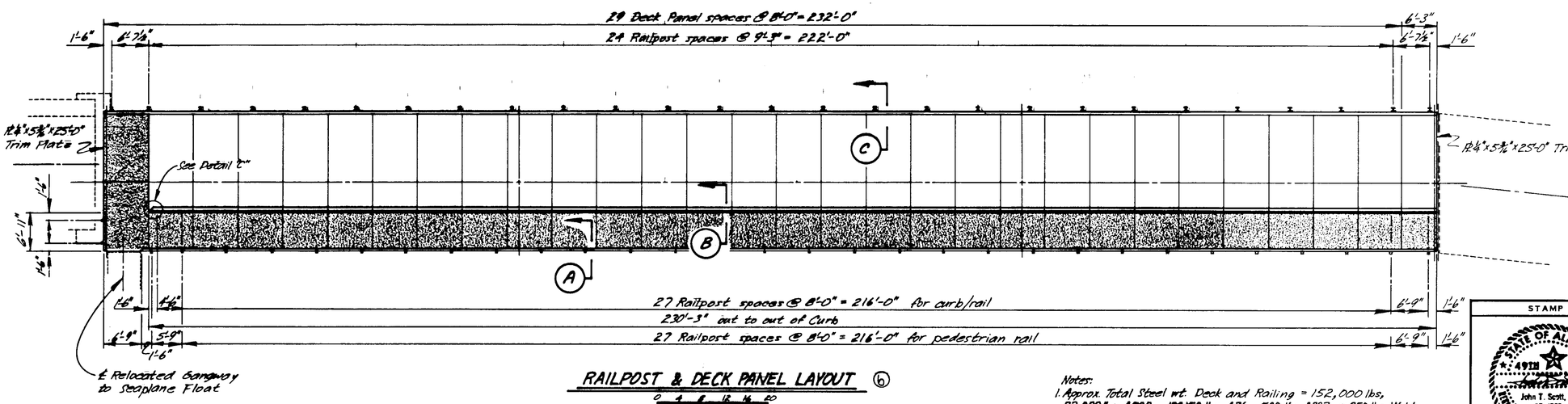


DETAIL "C"
NTS



RAILPOST & DECK PANEL LAYOUT ⑥
0 4 8 12 16 20
Ft.

Notes:
1. Approx. Total Steel wt. Deck and Railing = 152,000 lbs, 22,000 lbs A500, 129,150 lbs A36, 500 lbs A307, ~350 lbs Weld
2. Approx 13 C.Y. of Class A-A concrete.
3. Galvanize after fabrication
4. For Deck Details see also sheet S1
5. For Gangway Bracket see sheet S4
6. Alternate "A" shown this sheet, for Alternate "B", if awarded, see details sheet 60

STAMP

STATE OF ALASKA 49TH
John T. Scott, II
CE 4755
REGISTERED PROFESSIONAL ENGINEER
2-25-85

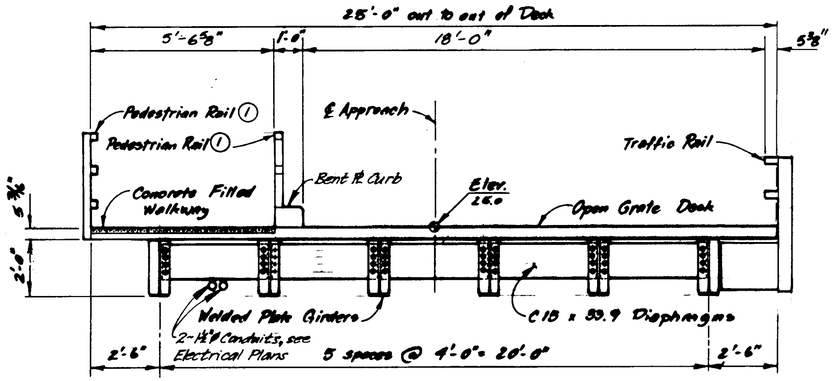
DO NOT SCALE THIS DRAWING – USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

Petersburg Alaska

CONTINUOUS APPROACH DECK AND RAILING DETAILS

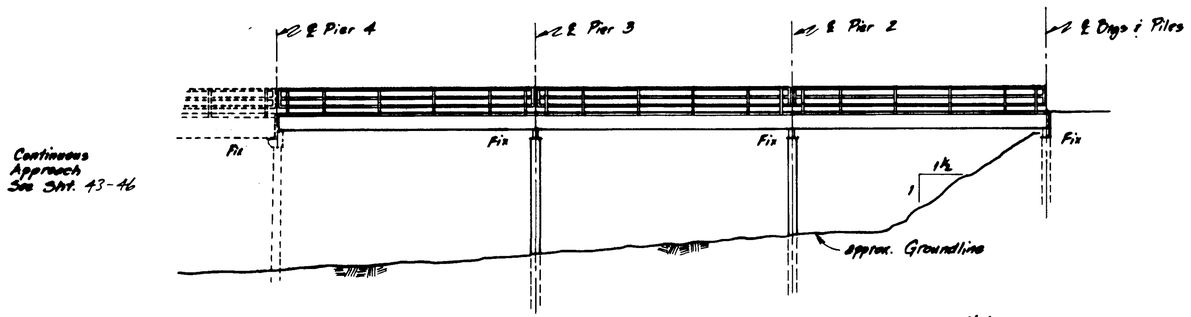
SCALE As Noted	SURVEYED	APPROVED
DESIGNED JS	DRAWN LVB	
CHECKED BS	DATE 3/84	
PROJECT NUMBER A38502	SHEET 46 OF 62	



TYPICAL SECTION

(Looking Seaward)

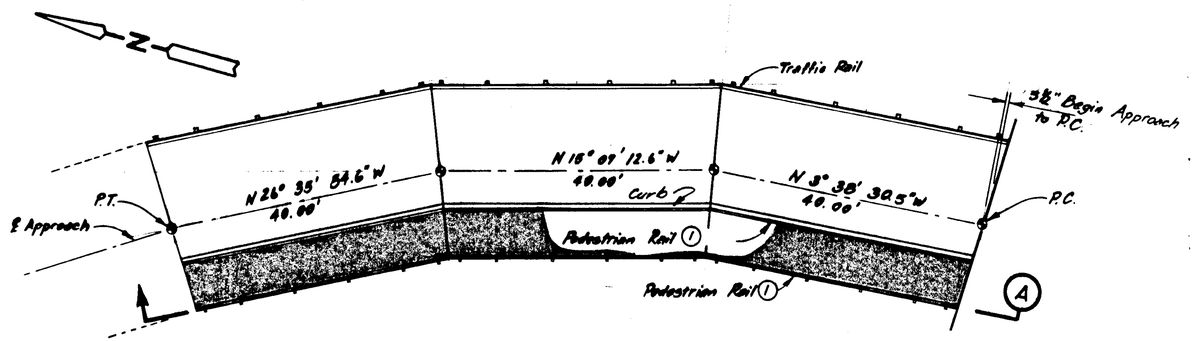
3/8" = 1'-0"



Continuous Approach See Sht. 43-46

VIEW (A) (1)

Note: For Approach Geometrics See Sht. 48



PLAN

3/32" = 1'-0"

Ft.

(1) Note: Alternate "A" shown this sheet, For Alternate "B", if awarded, see details sheet 60

STAMP

STATE OF ALASKA
49TH
John T. Scott, II
CE 4755
REGISTERED PROFESSIONAL ENGINEER

2-25-85

DO NOT SCALE THIS DRAWING – USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

Petersburg Alaska

CURVED APPROACH LAYOUT

SCALE As Noted	SURVEYED	APPROVED
DESIGNED JJ	DRAWN DB	
CHECKED BS	DATE 1-84	
PROJECT NUMBER A38502	SHEET 47 OF 62	

Sheet 50 of 50