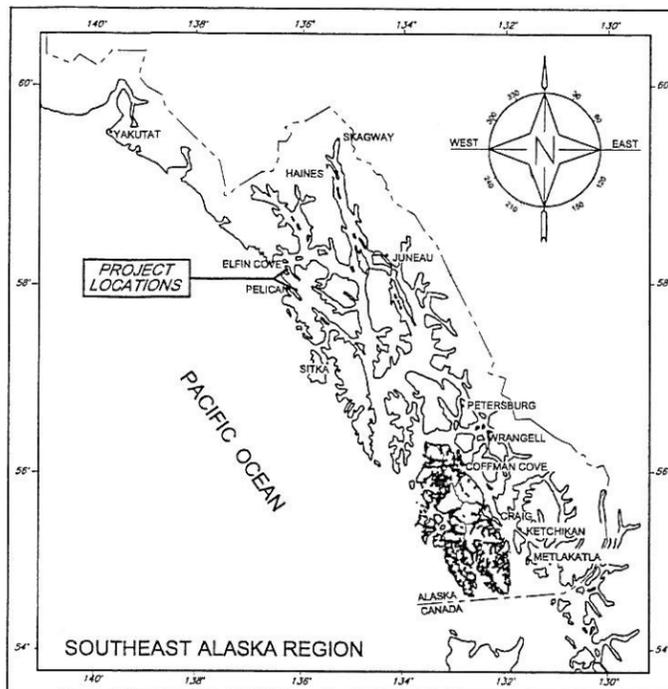


STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 S O U T H E A S T R E G I O N



A PROJECT AT  
 PELICAN AND ELFIN COVE

**PROJECT SUMMARY**  
**PELICAN BOARDWALK REPAIRS**  
**PHASE III AND**  
**ELFIN COVE PEDESTRIAN**  
**BOARDWALK REPAIRS**



VICINITY MAP

PROJECT INDEX
<i>PROJECT SUMMARY</i>
Project Cover Sheet & Estimate of Quantities - 2 Sheets
<i>PLANSETS</i>
Planset A- Pelican Boardwalk Repairs Phase III - 45 Sheets
Planset B - Elfin Cove Pedestrian Boardwalk Repairs - 11 Sheets

Project Consists of:

**PLANSET A**

**Pelican Boardwalk Repairs Phase III**

Project No. 68708 / DC 01037-00-2009

**PLANSET B**

**Elfin Cove Pedestrian Boardwalk Repairs**

Project No. 69211



LOCATION MAP

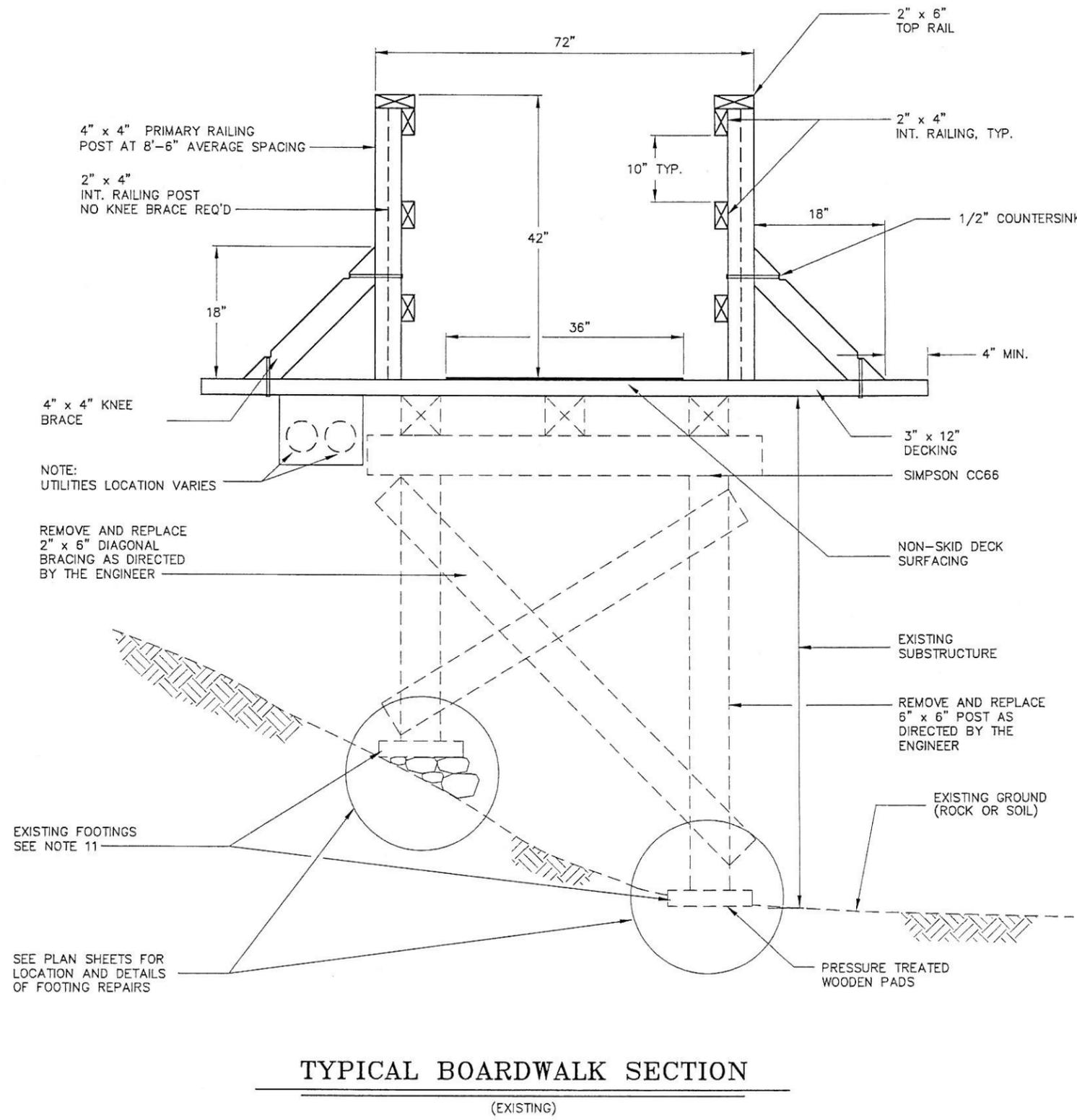
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION	
APPROVED <i>Victor Winters</i> Regional Reconstruction Engineer Victor Winters, P.E.	Date <b>8/11/09</b>
APPROVED <i>Gary L. Davis</i> Director, S.E. Region Gary L. Davis	Date <b>8-11-09</b>
PROJECT NUMBER 68708 / 69211	
DATE MAY, 2009	
SHEET <u>1</u> OF <u>2</u>	

SUMMARY OF PROJECT QUANTITIES BY PROJECT							
ITEM NO	PAY ITEM	PAY UNIT	PROJECT 68708-PLANSET A PELICAN BOARDWALK REPAIRS PHASE III			PROJECT 69211-PLANSET B ELFIN COVE PEDESTRIAN BOARDWALK REPAIRS	TOTAL ESTIMATED QUANTITY
			BASE BID	ADDITIVE ALTERNATE A	ADDITIVE ALTERNATE B		
301(5)	AGGREGATE BASE AND SURFACE COURSE	SQUARE YARD				11	11
501(7)	PRECAST CONCRETE MEMBER (FOOTING)	EACH	23				23
501(9)	CAST IN PLACE FOOTING, CLASS A	EACH	1				1
501(10)	CONCRETE FOOTING, CLASS W	EACH				29	29
505(12)	REPLACE TREATED TIMBER PILES AND PILE CAPS	LINEAR FOOT	312.7				312.7
506(3)	TREATED TIMBER	MBM	12.57	3.85	6.25		22.67
506(5)	REMOVE AND REPLACE TIMBER RAILING	LINEAR FOOT				524	524
506(6)	REMOVE AND REPLACE TIMBER DECKING	SQUARE FOOT				100	100
506(7)	REMOVE AND REPLACE 6x6 TIMBER POSTS	LINEAR FOOT				100	100
506(8)	REMOVE AND REPLACE 2x6 TIMBER BRACING	LINEAR FOOT				100	100
506(9)	RECONSTRUCT TIMBER BOARDWALK AT "A" STA. 0+85	LUMP SUM				ALL REQUIRED	ALL REQUIRED
506(10)	RECONSTRUCT TIMBER BRIDGE AT "B" STA. 0+00	LUMP SUM				ALL REQUIRED	ALL REQUIRED
506(11)	RECONSTRUCT TIMBER BRIDGE AT "B" STA. 2+30	LUMP SUM				ALL REQUIRED	ALL REQUIRED
506(12)	RECONSTRUCT TIMBER BOARDWALK AT "B" STA. 13+50	LUMP SUM				ALL REQUIRED	ALL REQUIRED
506(13)	FURNISH MISCELLANEOUS TIMBER, ELFIN COVE PROJECT	LUMP SUM				ALL REQUIRED	ALL REQUIRED
506(14)	FURNISH MISCELLANEOUS TIMBER, PELICAN PROJECT	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED		ALL REQUIRED
629(1)	UTILITY RELOCATION	CONTINGENT SUM				ALL REQUIRED	ALL REQUIRED
637(1)	NON-SKID DECK SURFACING--ROLLED MINERAL ROOFING	SQUARE FOOT				29.3	29.3
637(2)	NON-SKID DECK SURFACING--ASPHALT ROOFING SHINGLES	SQUARE FOOT				11.4	11.4
637(3)	NON-SKID DECK SURFACING--HARDWARE CLOTH	SQUARE FOOT				3.3	3.3
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
640(4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED		ALL REQUIRED
641(2)	TEMPORARY EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED		ALL REQUIRED
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED		ALL REQUIRED

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION  Pelican Boardwalk Repairs Phase III and Elfin Cove Pedestrian Boardwalk Repairs  <b>Summary of Quantities          by Project</b>																			
																				
CHECKED BY: G. LOCKWOOD																				
DRAWN BY: D. STEVENS																				
PATH: Q:\Pel\68708\PlanSet\Main Estimate Quantities Combined.dwg																				
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<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> <th rowspan="2">PROJECT DESIGNATION</th> <th rowspan="2">YEAR</th> <th rowspan="2">SHEET NO.</th> <th rowspan="2">TOTAL SHEETS</th> </tr> <tr> <th>NO.</th> <th>DATE DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td rowspan="2">69211/68708</td> <td rowspan="2">2009</td> <td rowspan="2">2</td> <td rowspan="2">2</td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	NO.	DATE DESCRIPTION			69211/68708	2009	2	2					
REVISIONS		PROJECT DESIGNATION	YEAR					SHEET NO.	TOTAL SHEETS											
NO.	DATE DESCRIPTION																			
		69211/68708	2009	2	2															





**TYPICAL BOARDWALK SECTION**

(EXISTING)

**CONSTRUCTION NOTES:**

1. ALL TIMBER DIMENSIONS GIVEN ARE NOMINAL S4S.
2. ALL REMOVED MATERIALS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN AN APPROVED MANNER.
3. THE BOARDWALK AND TRAIL SYSTEM ARE THE COMMUNITY OF ELFIN COVE'S ONLY LAND BASED TRANSPORTATION NETWORK. BOARDWALK AND TRAIL ACCESS SHALL BE MAINTAINED THROUGH WORK ZONES AT ALL TIMES.
4. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF EXISTING CONSTRUCTION PRIOR TO ORDERING TIMBER MATERIALS. EXISTING PRIMARY RAILING POST SPACING VARIES FROM 5'6" TO 12'6" WITH AN AVERAGE SPACING OF ABOUT 8'6".
5. ALL TIMBER SHALL BE HEM-FIR NO. 1 OR BETTER AND SHALL BE PRESSURE TREATED WITH ACZA TO A RETENTION OF 0.6 pcf. ALL FIELD CUTS AND HOLES SHALL BE TREATED PER AWPA STD M4 WITH CUPRINOL OR APPROVED EQUAL.
6. ALL EXISTING TIMBER TO BE REMOVED SHALL BE CONSIDERED TREATED.
7. BURNING OF CONSTRUCTION WASTES MAY REQUIRE AN OPEN BURNING APPROVAL FROM THE STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION. REFER TO THE ENVIRONMENTAL COMMITMENTS CONTAINED IN APPENDIX A OF BID DOCUMENT FOR FURTHER INFORMATION ON OPEN BURNING.
8. THE CONTRACTOR SHALL MATCH EXISTING CONSTRUCTION WHERE IT DOES NOT CONFORM TO THE TYPICALS SHOWN ON THE PLANS.
9. PREDRILL 3 X 12 DECKING BOARDS WITH A 3/16" HOLE FOR 40d SPIKE TO PREVENT SPLITTING.
10. BOARDWALK SHALL RECEIVE NON-SKID DECK SURFACING AS SHOWN ON PLANS.
11. TYPE OF EXISTING FOOTINGS VARY AS SHOWN. MANY OF THE WOODEN PADS WERE REPLACED WITH CONCRETE FOOTINGS DURING A PREVIOUS CONSTRUCTION PROJECT IN 2000. REPLACE EXISTING WOODEN PADS WITH CONCRETE FOOTINGS AS INDICATED IN THE PLANS AND AS DIRECTED BY THE ENGINEER PAID FOR UNDER ITEM 501(9).

**CONNECTION SCHEDULE**

MEMBER	TO	MEMBER	CONNECTOR	COMMENTS
3" x 12" DECKING		6" x 6" STRINGER	40d GALV. SPIKE	2 SPIKES THROUGH DECKING PER STRINGER PREDRILL HOLES PER NOTE 9
4" x 4" KNEE BRACE		3" x 12" DECKING AND 4" x 4" PRI. POST	20d GALV. COMMON NAIL 1/2" GALV. BOLT	2 EACH PER MEMBER
4" x 4" PRI. POST		3" x 12" DECKING	20d GALV. COMMON NAIL	4 EACH PER CONNECTION
2" x 6" TOP RAIL OR 2" x 4" INT. RAILING		4" x 4" PRI. POST OR 2" x 4" INT. POST	16d GALV. COMMON NAIL	2 EACH PER CONNECTION
NON-SKID DECK SURFACING		3" x 12" DECKING	1 1/4" GALV. ROOFING NAIL	SEE SPECIFICATIONS
ROLLED ROOFING		3" x 12" DECKING	1 1/4" GALV. ROOFING NAIL	SEE SPECIFICATIONS
ASPHALT SHINGLES		3" x 12" DECKING	1 1/4" GALV. ROOFING NAIL	SEE SPECIFICATIONS
HARDWARE CLOTH		3" x 12" DECKING	1" GALV. STAPLE	SEE SPECIFICATIONS
2" x 6" DIAGONAL BRACING		6" x 6" POST	20d GALV. SPIKE	4 EACH PER CONNECTION
6" x 6" POST		6" x 6" PILE CAP	SIMPSON BC66 GALV. CONNECTOR	NAIL PER MANUFACTURERS RECOMMENDATION

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

ELFIN COVE ALASKA  
**ELFIN COVE PEDESTRIAN BOARDWALK REPAIRS**  
FED. NO. DC-238-06 ~ PROJECT NO. 69211  
**TYPICAL BOARDWALK AND HANDRAIL SECTION**

DESIGNED BY: J. PETROPULOS	PROJECT NO. 69211
DRAWN BY: D. STEVENS	DATE: MAY, 2009
CHECKED BY: J. PETROPULOS	SHEET 2 OF 11



ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
301(5)	AGGREGATE BASE COURSE, GRADING D-1	SQUARE YARD	11
501(9)	CONCRETE FOOTINGS	EACH	29
506(5)	REMOVE AND REPLACE TIMBER RAILING	FOOT	524
506(8)	REMOVE AND REPLACE TIMBER DECKING	SQUARE FEET	100
506(7)	REMOVE AND REPLACE 6" x 6" TIMBER POSTS	FOOT	100
506(8)	REMOVE AND REPLACE 2" x 6" TIMBER BRACING	FOOT	100
506(9)	RECONSTRUCT TIMBER BOARDWALK AT "A" STA. 0+85 LOT 4A	LUMP SUM	ALL REQUIRED
506(10)	CONSTRUCT TIMBER BOARDWALK AT "B" STA. 0+00	LUMP SUM	ALL REQUIRED
506(11)	RECONSTRUCT TIMBER BRIDGE AT STA. "B" STA. 2+30	LUMP SUM	ALL REQUIRED
506(12)	CONSTRUCT TIMBER BOARDWALK AT "B" STA. 13+50	LUMP SUM	ALL REQUIRED
506(13)	FURNISH MISCELLANEOUS TIMBER	LUMP SUM	ALL REQUIRED
629(1)	UTILITY RELOCATION	CONTINGENT SUM	ALL REQUIRED
637(1)	NON-SKID DECK SURFACING- ROLLED MINERAL ROOFING	SQUARE	21
637(2)	NON-SKID DECK SURFACING- ASPHALT ROOFING SHINGLES	SQUARE	4.9
637(3)	NON-SKID DECK SURFACING- HARDWARE CLOTH	SQUARE	3.3
640(4)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED

ITEM 301(5) AGGREGATE BASE COURSE SUMMARY

STATIONING	L (FT)	W (FT)	SQUARE YARDS	COMMENTS
"B" 13+58 TO 13+70	12	4	5.5	BOARDWALK APPROACH
"B" 14+96 TO 15+06	12	4	5.5	BOARDWALK APPROACH

ITEM 501(10) CONCRETE FOOTING SUMMARY

LOCATION	QUANTITY
"A" LINE STA. 0+85 "LOT 4A"	20
"B" LINE STA. 0+00 FIRE HOUSE	9

ITEM 506(5) REMOVE & REPLACE TIMBER RAILING SUMMARY

STATIONING	SIDE	FEET	COMMENTS
"A" 0+85	RT	90	LOT 4A SEGMENT
"A" 0+85	LT	90	LOT 4A SEGMENT
"A" 1+30	LT	80	COHO'S TO POWER HOUSE
"A" 0+98	RT	110	COHO'S TO POWER HOUSE
"A" 4+26	LT	10	
"A" 10+82	LT	60	
"A" 14+70	LT	10	
"B" 2+30	RT	34	MODIFIED FOOTBRIDGE
"B" 7+54	RT	20	
"B" 27+88	RT	20	

NEW RAILING SUMMARY (AS INCIDENTAL ITEMS)

STATIONING	SIDE	FEET	COMMENTS
"B" 2+30	LT	34	ADD NEW RAILING AT MODIFIED FOOTBRIDGE AS INCIDENTAL TO ITEM 506(11)
"B" 13+50	RT	126	ADD NEW RAILING AT LANDSLIDE AREA AS INCIDENTAL TO ITEM 506(12)

TIMBER SUPPORT SUMMARY (AS INCIDENTAL ITEMS)

STATION	LENGTH	QUANT.	COMMENTS
"A" 0+85 ±	4'	20 EA.	REPLACE EXISTING 6X6 POSTS AT LOT 4A BOARDWALK AS INCIDENTAL TO ITEM 506(9)
"A" 0+85 ±	4'	20 EA.	REPLACE EXISTING 4X4 PRIMARY RAILING POSTS AT LOT 4A BOARDWALK AS INCIDENTAL TO ITEM 506(5)
"B" 0+00 ±	6'	9 EA.	INSTALL NEW 6X6 POSTS AT FIRE HOUSE MUSTER AREA AS INCIDENTAL TO ITEM 506(10)
"A" 1+00 ±	4'	28 EA.	INSTALL 4X4 PRIMARY RAILING POSTS COHO'S TO POWER HOUSE AS INCIDENTAL TO ITEM 506(5)
"B" 2+30 ±	4'	14 EA.	INSTALL 4X4 PRIMARY RAILING POSTS MODIFIED FOOT BRIDGE AS INCIDENTAL TO ITEMS 506(5)& 506(11)
"B" 13+70 ±	4'	18 EA.	INSTALL 4X4 PRIMARY RAILING POSTS BOARDWALK AT LANDSLIDE AREA AS INCIDENTAL TO ITEM 506(12)

TIMBER BRACING SUMMARY (AS INCIDENTAL ITEMS)

LOCATION	SIZE	BOARD LENGTH	QUANT.	COMMENTS
"A" 0+85 LOT 4A BOARDWALK	2 X 6	6'0"	40 EA.	REMOVE & REPLACE EXISTING DIAGONAL BRACING AS INCIDENTAL TO ITEM 506(9)
"B" 0+00 FIRE HOUSE BOARDWALK	2 X 6	6'0"	10 EA.	NEW DIAGONAL BRACING AS INCIDENTAL TO ITEM 506(10)
"B" 0+00 FIRE HOUSE BOARDWALK	2 X 6	8'0"	16 EA.	NEW DIAGONAL BRACING AS INCIDENTAL TO ITEM 506(10)

ITEM 637(1) ITEM 637(2) ITEM 637(3) NON-SKID DECK SURFACING SUMMARY

STATIONING	L (ft)	W (ft)	TYPE	SQUARE	COMMENTS
"A" 0+00 TO 0+85	85	3	ROLLED	2.6	
"A" 0+85	100	3	ROLLED	3.0	LOT 4A BOARDWALK
"A" 1+00 TO 2+10	110	3	H.CLOTH	3.3	COHO'S TO POST OFFICE BUILDING
"A" 3+00 TO 7+00	400	3	ROLLED	12.0	POST OFFICE BUILDING TO NARROW CHANNEL
INNER HARBOR DOCK AREA	200	3	ROLLED	11.7	SEE SHEET 7
"B" 0+00 TO 0+36	36	VARIES	SHINGLE	2.7	FIRE HOUSE SEE SHEET 11
"B" 2+30 TO 2+64	34	3	SHINGLE	1.1	SMALL FOOT BRIDGE
"B" 13+50 TO 14+96	126	3	SHINGLE	3.8	BOARDWALK @ LANDSLIDE AREA

ITEM 506(13) FURNISH MISCELLANEOUS TIMBER SUMMARY

DIMENSION	LENGTH (ft)	QTY	BOARD-FT.
4" x 4"	8'	10 EA.	106
2" x 4"	10'	20 EA.	133
3" x 12"	10'	20 EA.	600
6" x 6"	10'	10 EA.	300

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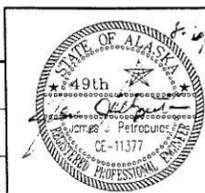
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DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

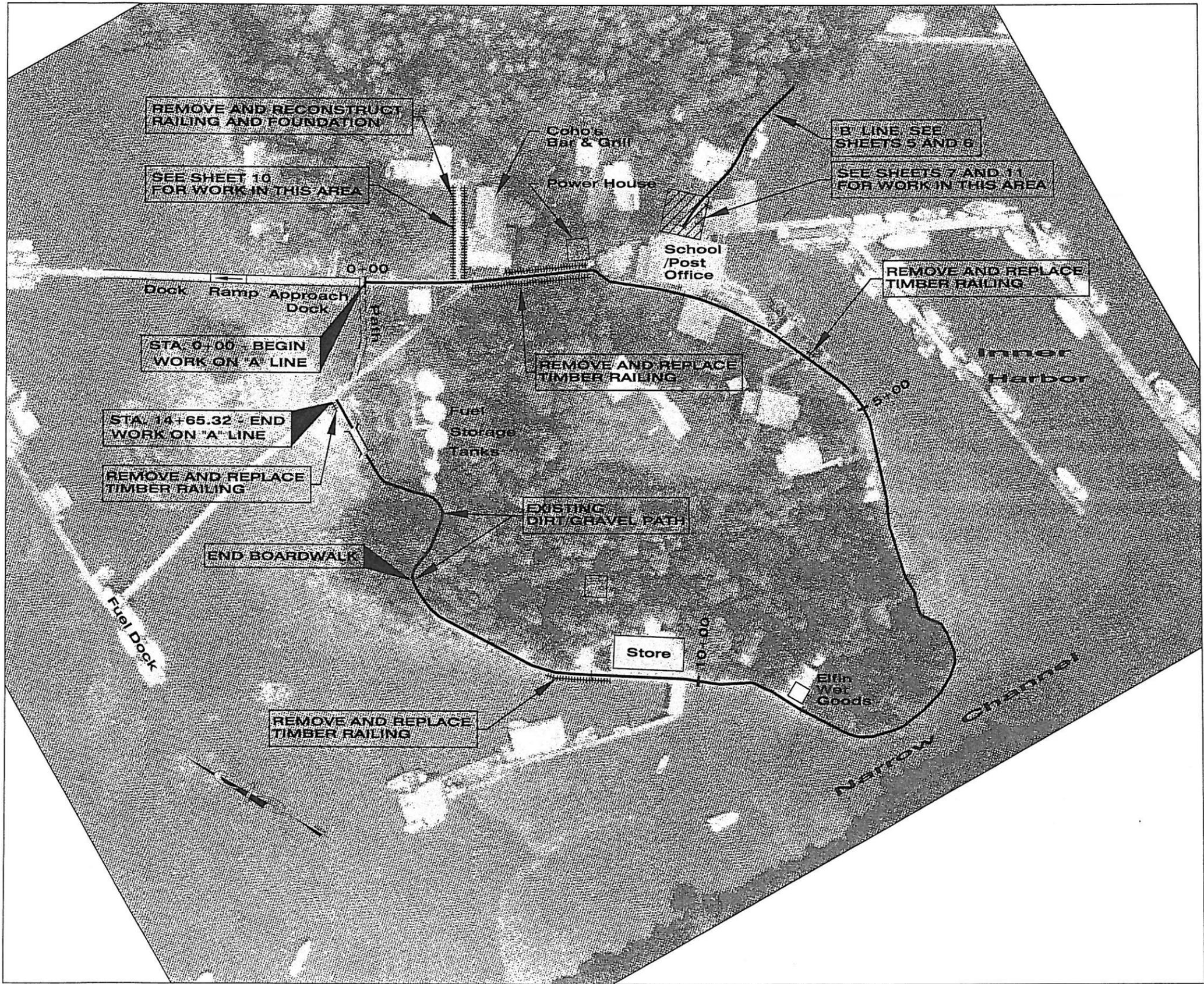
ELFIN COVE

ALASKA  
ELFIN COVE PEDESTRIAN BOARDWALK REPAIRS  
FED. NO. DC-238-06 ~ PROJECT NO. 69211  
ESTIMATE AND SUMMARY OF QUANTITIES

DESIGNED BY: J. PETROPULOS  
DRAWN BY: D. STEVENS  
CHECKED BY: J. PETROPULOS

PROJECT NO. 69211  
DATE: MAY, 2009  
SHEET 3 OF 11





**LEGEND**

-  EXISTING BOARDWALK
-  REMOVE AND REPLACE TIMBER RAILING
-  FOOT BRIDGE

**CONSTRUCTION NOTES:**

1. THE IMAGE USED ON THIS PLAN SHEET WAS TAKEN FROM AN AERIAL PHOTOGRAPH TAKEN IN 1989. THIS IMAGE UNDERLAY IS BEING USED TO PROVIDE THE CONTRACTOR WITH A REASONABLE DEPICTION OF WHERE THE WORK IS LOCATED IN RELATION TO MAJOR TOPOGRAPHICAL FEATURES AND OTHER IMPROVEMENTS. NO ATTEMPT HAS BEEN MADE TO UPDATE THIS INFORMATION.
2. THE LOCATION OF THE WORK INDICATED IS APPROXIMATE ONLY AND SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO BEGINNING WORK.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

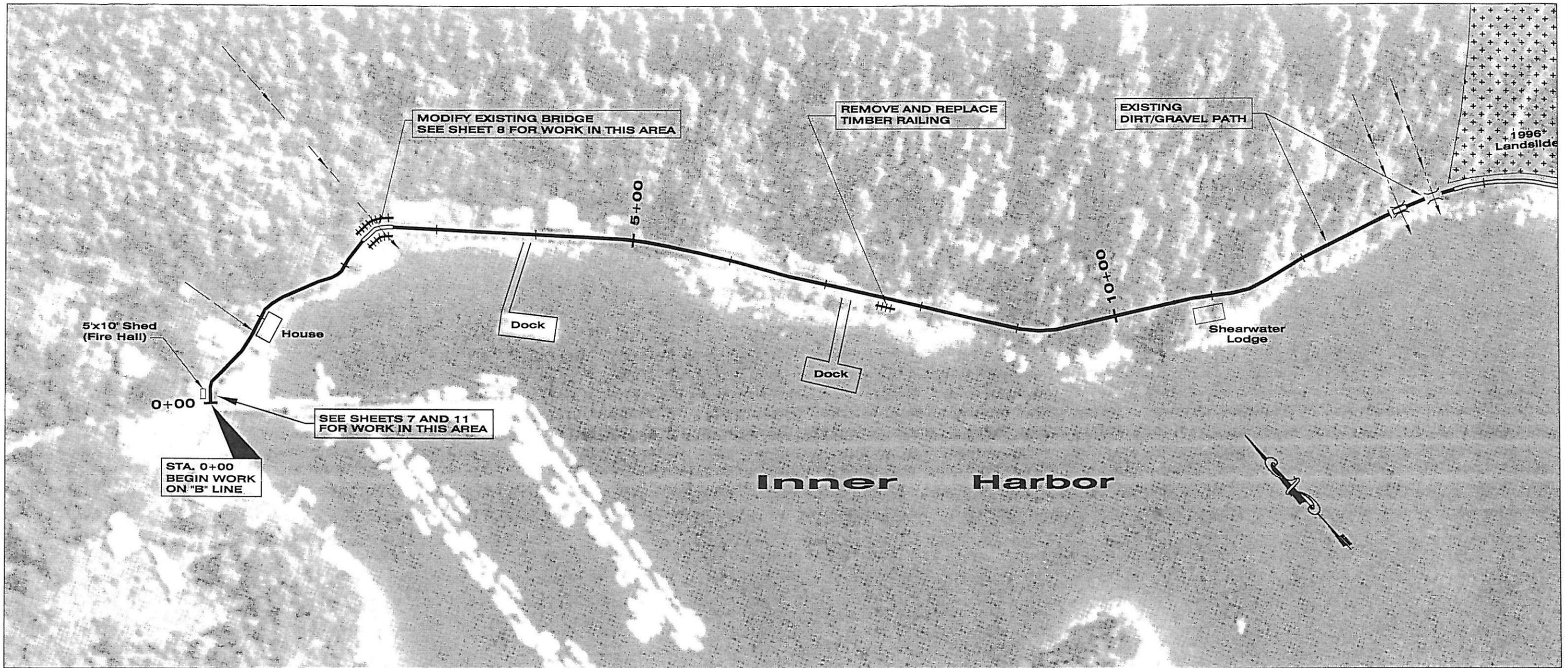
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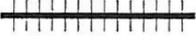
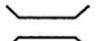
ELFIN COVE ALASKA  
 ELFIN COVE PEDESTRIAN BOARDWALK REPAIRS  
 FED. NO. DC-238-06 ~ PROJECT NO. 69211  
 BOARDWALK PLANS - "A" LINE

DESIGNED BY: J. PETROPULOS	PROJECT NO. 69211
DRAWN BY: D. STEVENS	DATE: MAY, 2009
CHECKED BY: J. PETROPULOS	SHEET 4 OF 11





**LEGEND**

-  RECONSTRUCT BOARDWALK
-  BOARDWALK
-  REMOVE AND REPLACE TIMBER RAILING
-  FOOTBRIDGE
-  STREAM

**CONSTRUCTION NOTES:**

1. THE IMAGE USED ON THIS PLAN SHEET WAS TAKEN FROM AN AERIAL PHOTOGRAPH TAKEN IN 1985. THIS IMAGE OVERLAY IS BEING USED TO PROVIDE THE CONTRACTOR WITH A REASONABLE DEPICTION OF WHERE THE WORK IS LOCATED IN RELATION TO MAJOR TOPOGRAPHICAL AND OTHER IMPROVEMENTS. NO ATTEMPT HAS BEEN MADE TO UPDATE THIS INFORMATION.
2. THE LOCATION OF THE WORK INDICATED IS APPROXIMATE ONLY AND SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO BEGINNING WORK.

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

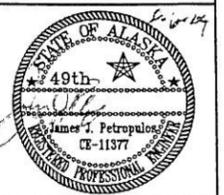
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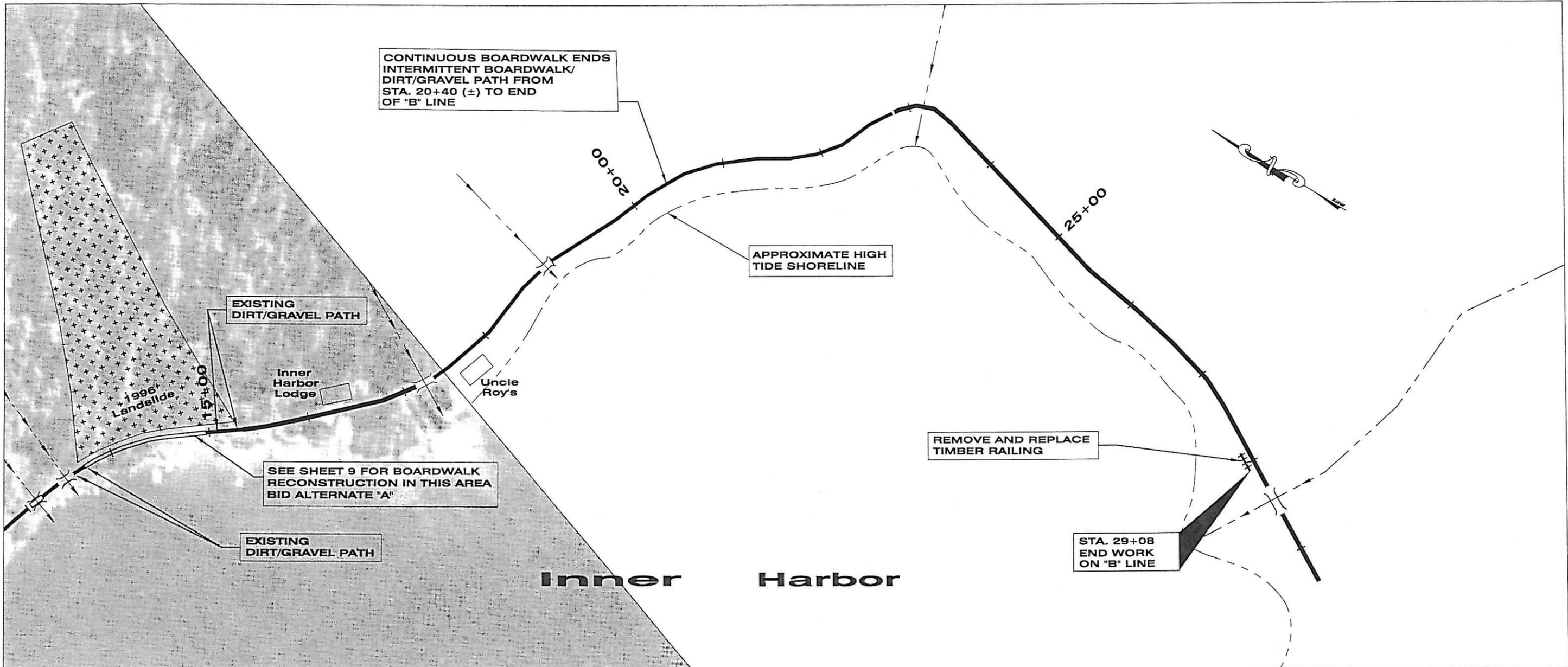
STATE OF ALASKA  
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ELFIN COVE

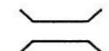
ALASKA  
 ELFIN COVE PEDESTRIAN BOARDWALK REPAIRS  
 FED NO. DC-238-06 ~ PROJECT NO. 69211  
 BOARDWALK PLANS - "B" LINE

DESIGNED BY: J. PETROPULOS	PROJECT NO. 69211
DRAWN BY: D. STEVENS	DATE: MAY, 2009
CHECKED BY: J. PETROPULOS	SHEET 5 OF 11





**LEGEND**

-  RECONSTRUCT BOARDWALK
-  BOARDWALK
-  REMOVE AND REPLACE TIMBER RAILING
-  FOOTBRIDGE
-  STREAM

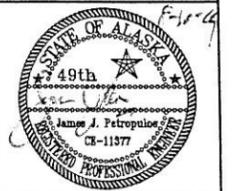
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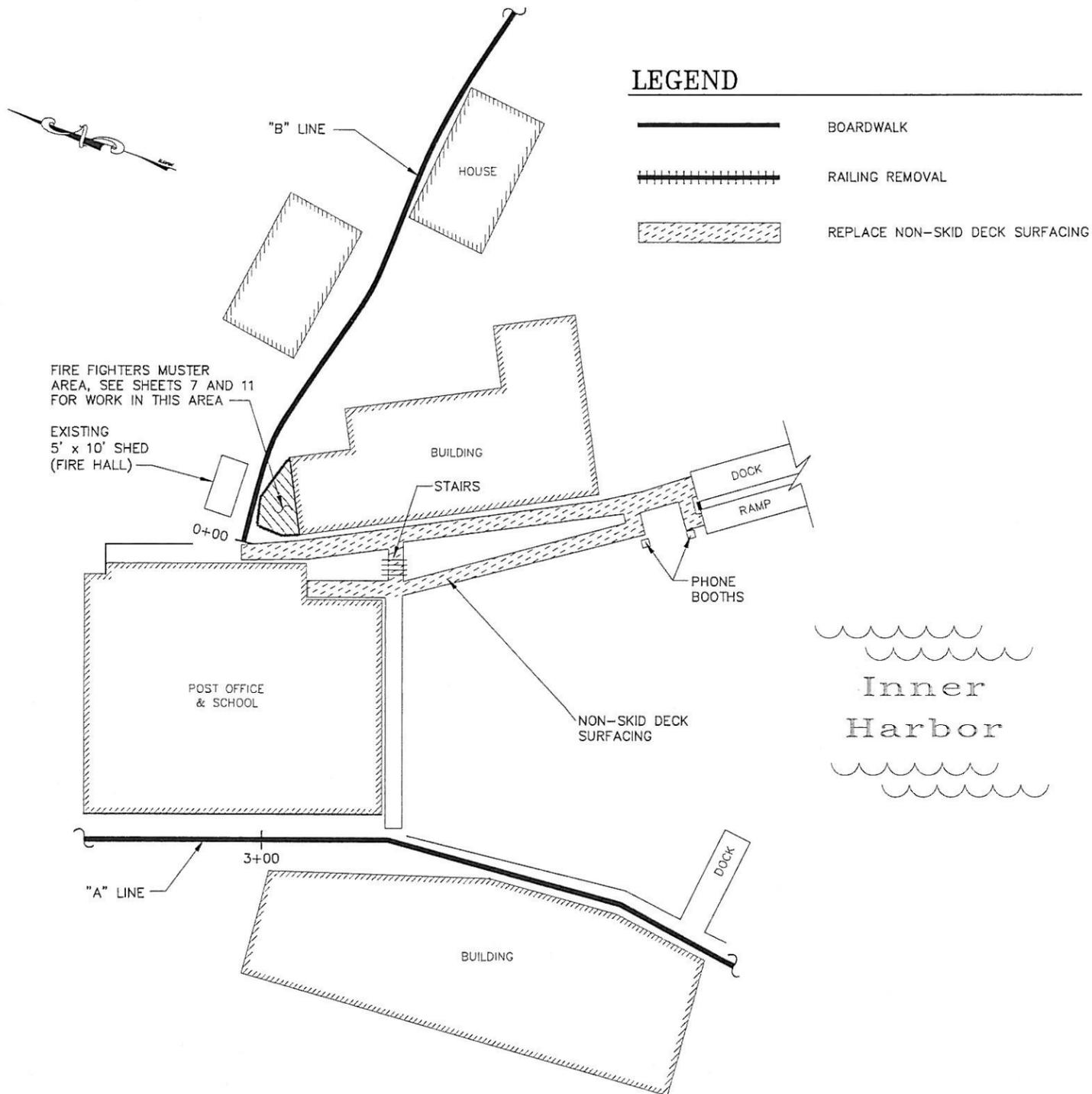
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STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
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 SOUTHEAST REGION

ELFIN COVE ALASKA  
 ELFIN COVE PEDESTRIAN BOARDWALK REPAIRS  
 FED. NO. DC-238-06 ~ PROJECT NO. 69211  
 BOARDWALK PLANS - "B" LINE

DESIGNED BY: J. PETROPULOS	PROJECT NO. 69211
DRAWN BY: D. STEVENS	DATE: MAY, 2009
CHECKED BY: J. PETROPULOS	SHEET 6 OF 11

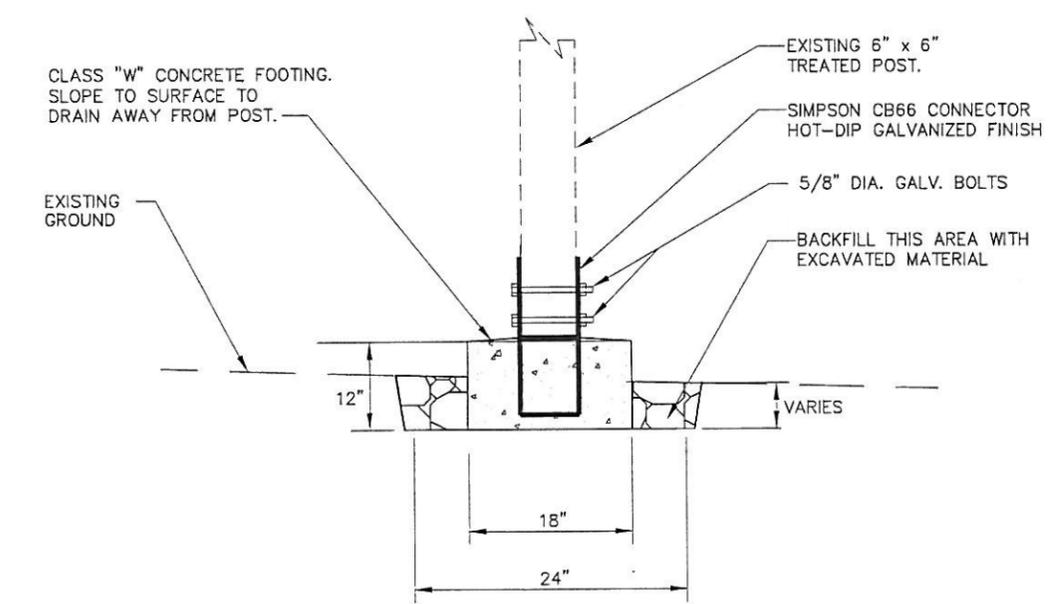




- LEGEND**
- BOARDWALK
  - RAILING REMOVAL
  - REPLACE NON-SKID DECK SURFACING

**CONSTRUCTION NOTES:**

1. THIS SHEET INTENDED TO SHOW WORK IN THE INNER HARBOR DOCK AREA ONLY. SEE OTHER PLAN SHEETS FOR WORK ON "A" AND "B" LINE BOARDWALKS.
2. NON-SKID DECK SURFACING SHALL BE APPLIED IN THIS WORK AREA AS DIRECTED BY THE ENGINEER.
3. RAILING SHALL CONFORM TO THAT SHOWN ON THE TYPICAL BOARDWALK SECTION. NON-TYPICAL RECONSTRUCTION SHALL MATCH EXISTING CONSTRUCTION.
5. SOME OF THE CONCRETE FOOTING WORK IS LOCATED IN THE INTERTIDAL ZONE. THE CONTRACTOR SHALL SCHEDULE THE WORK DURING FAVORABLE TIDES AND SHALL NOT POUR CONCRETE IN SEA WATER NOR WHEN WAVE ACTION MAY DAMAGE FRESHLY POURED CONCRETE.
6. EXISTING DIAGONAL BRACING MAY NEED TO BE REMOVED AND REATTACHED AND A SLIGHTLY DIFFERENT ANGLE TO PERFORM THE FOOTING WORK.
7. CONCRETE FOOTINGS MAY BE CIRCULAR OR SQUARE.



**BOARDWALK RAILING RECONSTRUCTION PLAN**  
INNER HARBOR DOCK AREA

**CONCRETE FOOTING - (TYPICAL)**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

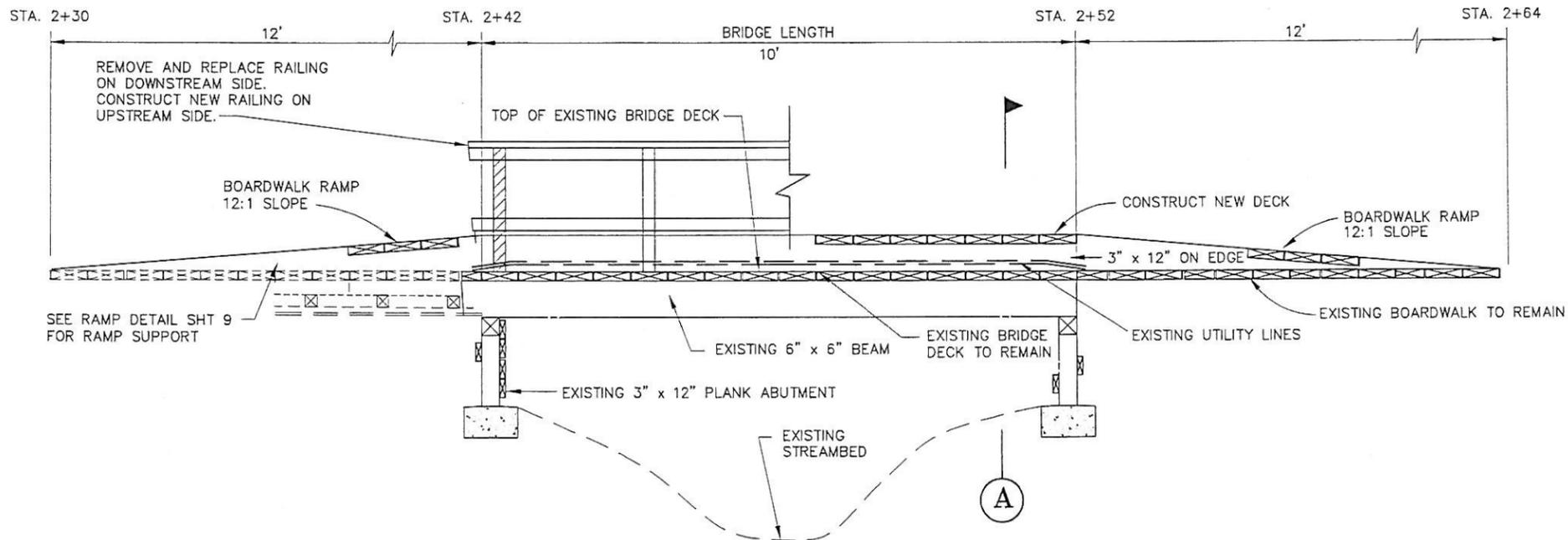
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BY:	DATE:	DESCRIPTION OF CHANGE:
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

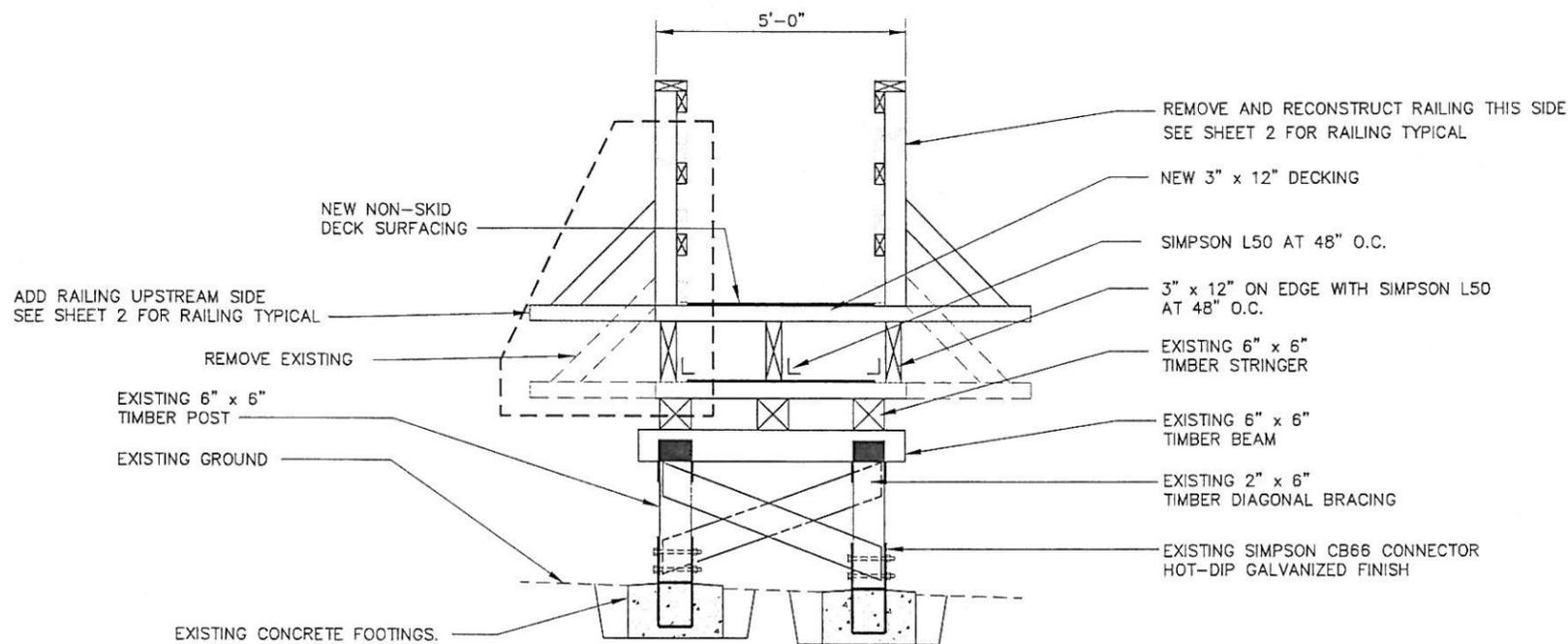
ELFIN COVE ALASKA  
ELFIN COVE PEDESTRIAN BOARDWALK REPAIRS  
FED. NO. DC-238-06 ~ PROJECT NO. 69211  
INNER HARBOR DOCK AREA PLAN

DESIGNED BY:	J. PETROPULOS	PROJECT NO.	69211
DRAWN BY:	D. STEVENS	DATE:	MAY, 2009
CHECKED BY:	J. PETROPULOS	SHEET	7 OF 11





**TIMBER BRIDGE RECONSTRUCTION**  
STA. 2+30 TO STA. 2+64



**MODIFIED BRIDGE SECTION**  
**"B" LINE STATION 2+42**

**CONSTRUCTION NOTES:**

1. ALL TIMBER WILL BE HEM-FIR NO. 1 OR BETTER AND WILL BE PRESSURE TREATED WITH ACZA TO A RETENTION OF 9.6 kg/m<sup>3</sup> (0.6 pcf.) ALL FIELD CUTS AND HOLES WILL BE TREATED PER NOTE 5 ON SHEET 2.
2. IN ORDER NOT TO JEOPARDIZE EXISTING UTILITIES BUILD A NEW DECK AS SHOWN IN THE DETAIL ON TOP OF EXISTING BRIDGE DECK. NEW DECK SURFACE WILL BE APPROXIMATELY 14" HIGHER THAN THE EXISTING DECK.
3. EXISTING POWER, WATER AND TELEPHONE CONDUIT EXIST ADJACENT TO THE BOARDWALK AND ATTACHED TO BRIDGE. THE CONTRACTOR WILL PERFORM LOCATES, IF NECESSARY, TO DETERMINE IF MINOR UTILITY ADJUSTMENTS ARE NEEDED.
4. THE EXISTING UTILITIES ARE SECURED TO THE EXISTING BRIDGE USING VARIOUS METHODS. IF NECESSARY, THE UTILITIES SHALL BE ADJUSTED AND RESECURED TO THE RECONSTRUCTED BRIDGE. POWER CABLES SHALL BE DE-ENERGIZED PRIOR TO HANDLING. IF THE POWER CABLE REQUIRES A DIFFERENT METHOD OF SECURING IT TO THE BRIDGE, THEN AN ELECTRICIAN WITH A CERTIFICATE OF FITNESS SHALL PERFORM THE WORK. THE ENGINEER SHALL PROVIDE A WRITTEN DIRECTIVE IF AN ELECTRICIAN IS REQUIRED TO REATTACH THE POWER CABLE AND THE CONTRACTOR SHALL BE COMPENSATED FOR THIS WORK UNDER SECTION 629 - UTILITY RELOCATION.
5. BOARDWALK SUPPORTS ON THE RAMP TRANSITIONS AT EITHER END WILL VARY IN HEIGHT. THE CONTRACTOR SHALL CONSTRUCT SUITABLE SUPPORTS TO FIT THE TERRAIN AND VARIABLE HEIGHTS.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

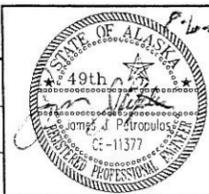
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RECORD OF REVISIONS		

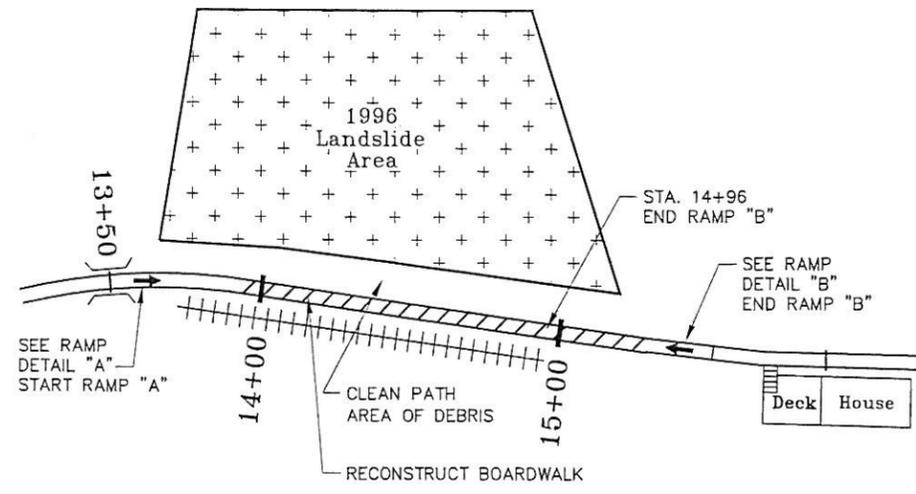
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

ELFIN COVE

ALASKA  
**ELFIN COVE PEDESTRIAN BOARDWALK REPAIRS**  
FED. NO. DC-238-06 ~ PROJECT NO. 69211  
**TIMBER BRIDGE RECONSTRUCTION DETAILS**

DESIGNED BY:	J. PETROPULOS	PROJECT NO.	69211
DRAWN BY:	D. STEVENS	DATE:	MAY, 2009
CHECKED BY:	J. PETROPULOS	SHEET	8 OF 11

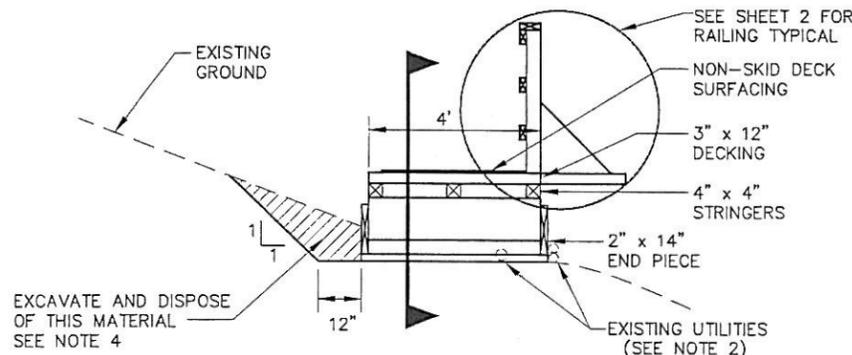




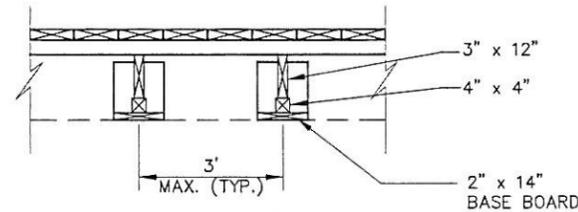
**ADDITIVE ALTERNATE A  
BOARDWALK RECONSTRUCTION PLAN**

**CONSTRUCTION NOTES:**

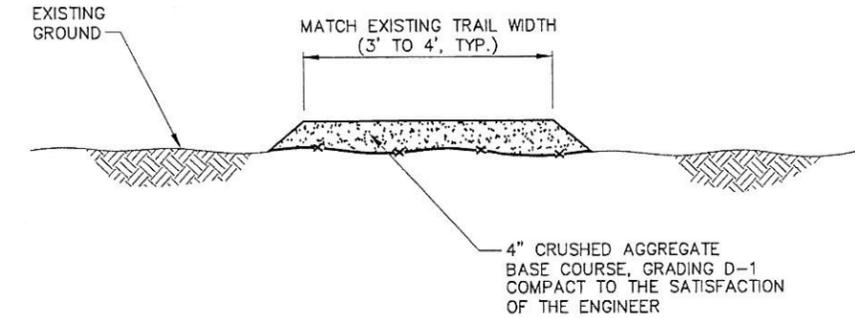
1. ALL TIMBER SHALL BE HEM-FIR NO. 1 OR BETTER AND SHALL BE PRESSURE TREATED WITH ACZA TO A RETENTION OF 0.6 pcf. ALL FIELD CUTS AND HOLES SHALL BE FIELD TREATED IN ACCORDANCE WITH NOTE 5 ON SHEET 2.
2. EXISTING POWER, TELEPHONE AND WATER CONDUITS RUN PARALLEL AND ADJACENT TO THE BOARDWALK. THE CONTRACTOR SHALL PROTECT AND PRESERVE THESE UTILITIES.
3. BOARDWALK SUPPORTS ON THE RAMP TRANSITIONS AT EITHER END WILL VARY IN HEIGHT. THE CONTRACTOR SHALL CONSTRUCT SUITABLE SUPPORTS TO FIT THE TERRAIN AND VARIABLE HEIGHTS.
4. REMOVE LOOSE ROCKS AND PLACE ON DOWNHILL SIDE, MATCH PATH GRADE AT EACH RAMP END WITH 12' LENGTH OF 4" D-1.
5. EXISTING BOARDWALK TO REMAIN IN PLACE AND UTILIZED AS PART OF THE FOUNDATION FOR NEW BOARDWALK.



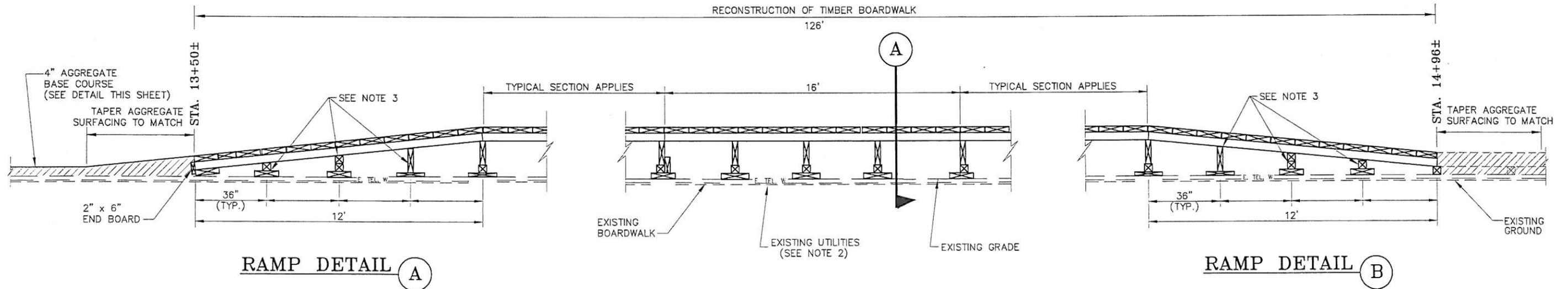
**TYPICAL SECTION "A"**



**ELEVATION SECTION**



**AGGREGATE SURFACING DETAIL**



**RAMP DETAIL A**

**RAMP DETAIL B**

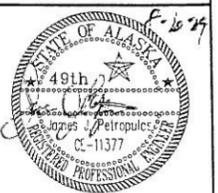
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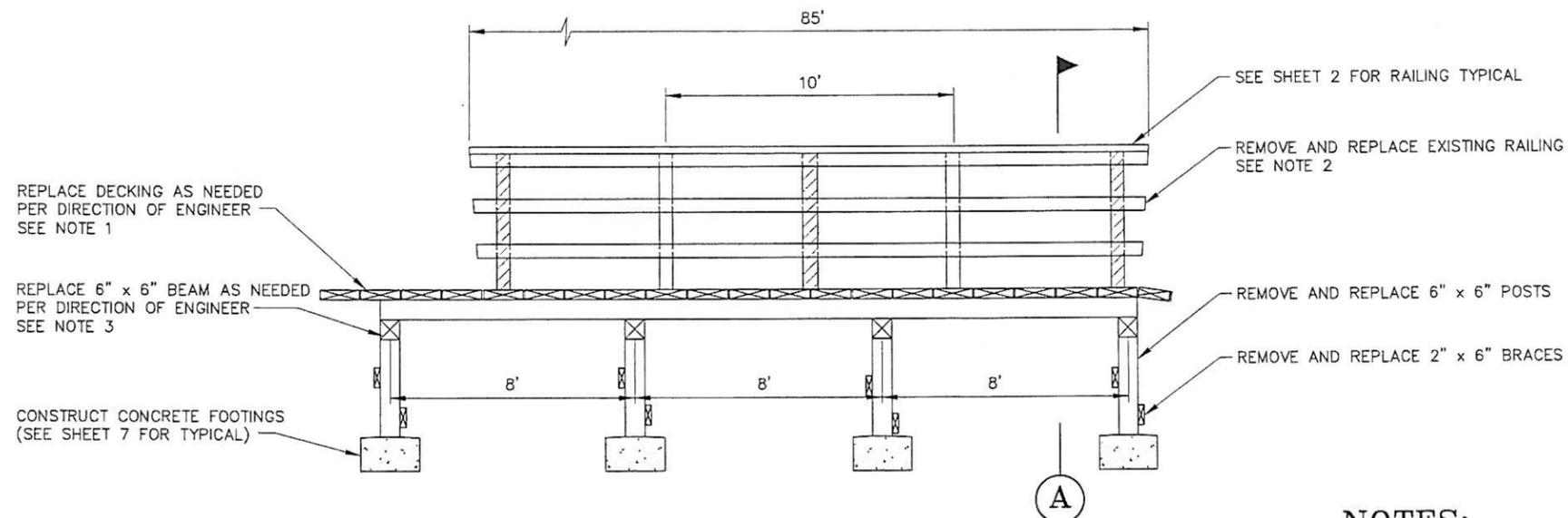
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PLOT: 1=1(F) OR 1=2(H)		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

ELFIN COVE PEDESTRIAN BOARDWALK REPAIRS  
FED. NO. DC-238-06 ~ PROJECT NO. 69211  
LANDSLIDE AREA BOARDWALK  
RECONSTRUCTION PLAN AND DETAILS

DESIGNED BY: J. PETROPULOS	PROJECT NO. 69211
DRAWN BY: D. STEVENS	DATE: MAY, 2009
CHECKED BY: J. PETROPULOS	SHEET 9 OF 11



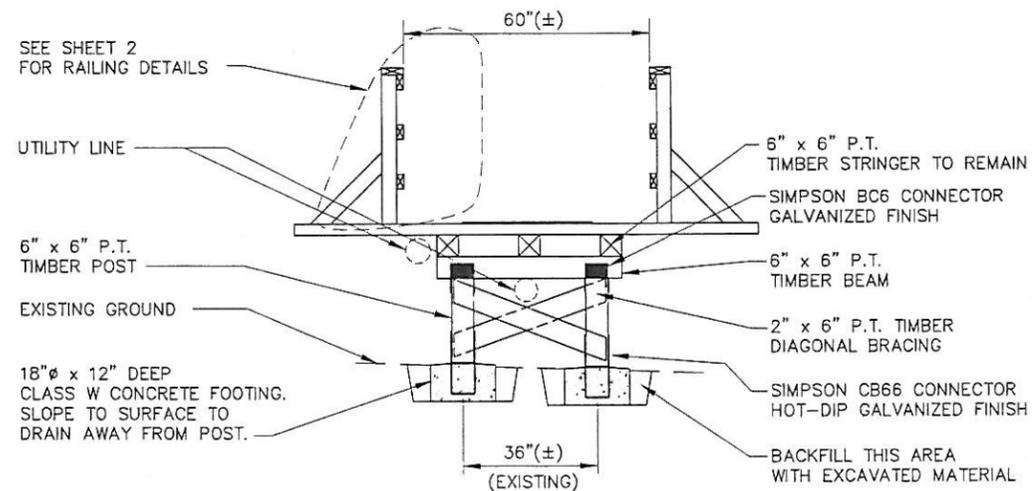


**LOT 4A BOARDWALK ELEVATION**

"A" STA. 0+85, LOT 4A

**NOTES:**

1. REMOVE AND REPLACE DECKING AS NEEDED AS DIRECTED BY THE ENGINEER TO BE PAID UNDER ITEM 506(6), REMOVE AND REPLACE TIMBER DECKING.
2. REMOVE AND REPLACE RAILING TO BE PAID UNDER ITEM 506(5), REMOVE AND REPLACE TIMBER RAILING.
3. REMOVE AND REPLACE 6" x 6" BEAM AS NEEDED AS DIRECTED BY THE ENGINEER TO BE PAID UNDER ITEM 506(7), REMOVE AND REPLACE 6" x 6" TIMBER POST.
4. ALL LOOSE ROCK AND THIN SOILS SHALL BE REMOVED DOWN TO BEDROCK OR 18" DEPTH PRIOR TO FORMING FOOTINGS.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING OF THE BOARDWALK WHILE FOOTINGS ARE BEING CONSTRUCTED. THE BOARDWALK SHALL BE LEVELED IN AREAS WHERE THE EXISTING FOOTINGS HAVE SETTLED.
6. EXISTING DIAGONAL BRACING MAY NEED TO BE REMOVED AND REATTACHED AT A SLIGHTLY DIFFERENT ANGLE TO CONFORM WITH NEW OR REPAIR WORK.
7. CIRCULAR OR SQUARE FORMS MAY BE USED.



**LOT 4A BOARDWALK SECTION**

"A" STATION 0+85, LOT 4A

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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RECORD OF REVISIONS		

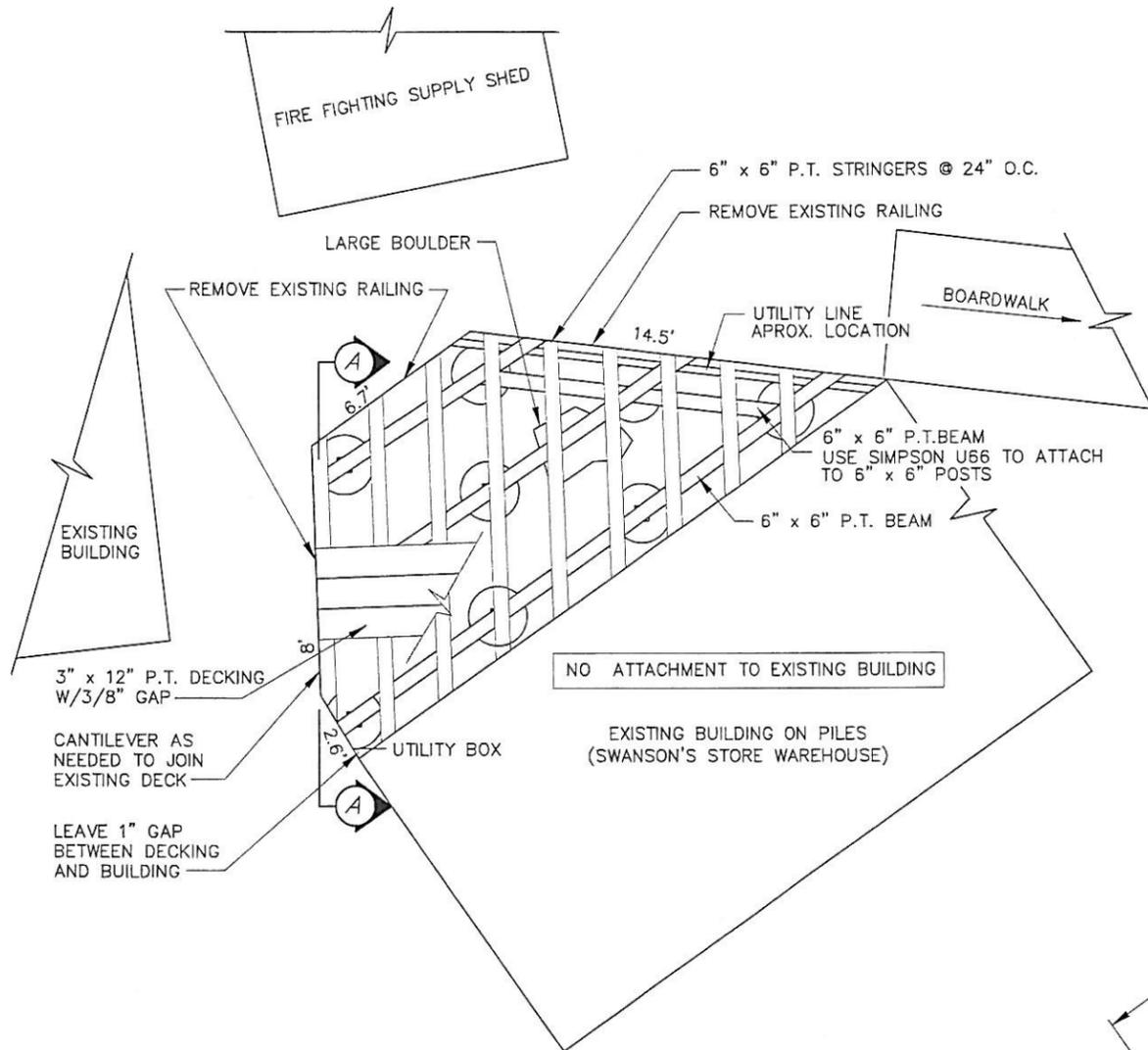
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
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ELFIN COVE

ALASKA  
 ELFIN COVE PEDESTRIAN BOARDWALK REPAIRS  
 FED. NO. DC-238-06 ~ PROJECT NO. 69211  
 LOT 4A BOARDWALK RECONSTRUCTION

DESIGNED BY: J. PETROPULOS	PROJECT NO. 69211
DRAWN BY: D. STEVENS	DATE: MAY, 2009
CHECKED BY: J. PETROPULOS	SHEET 10 OF 11

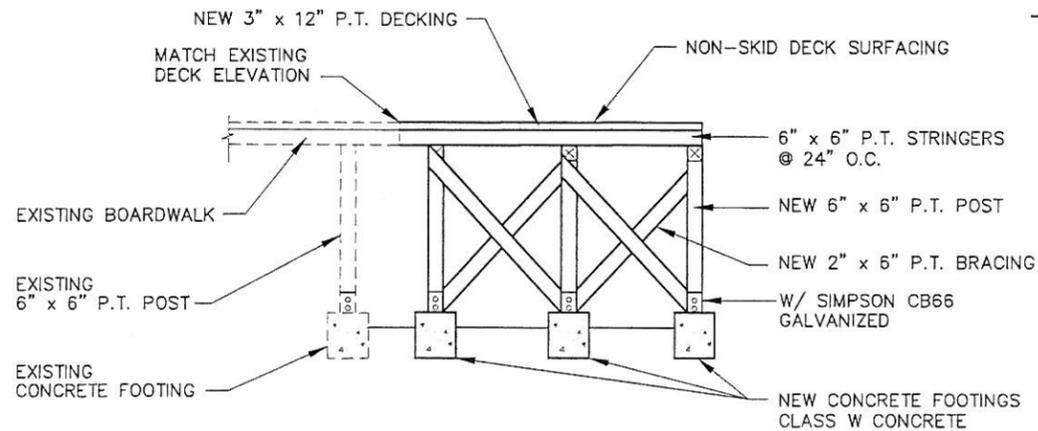




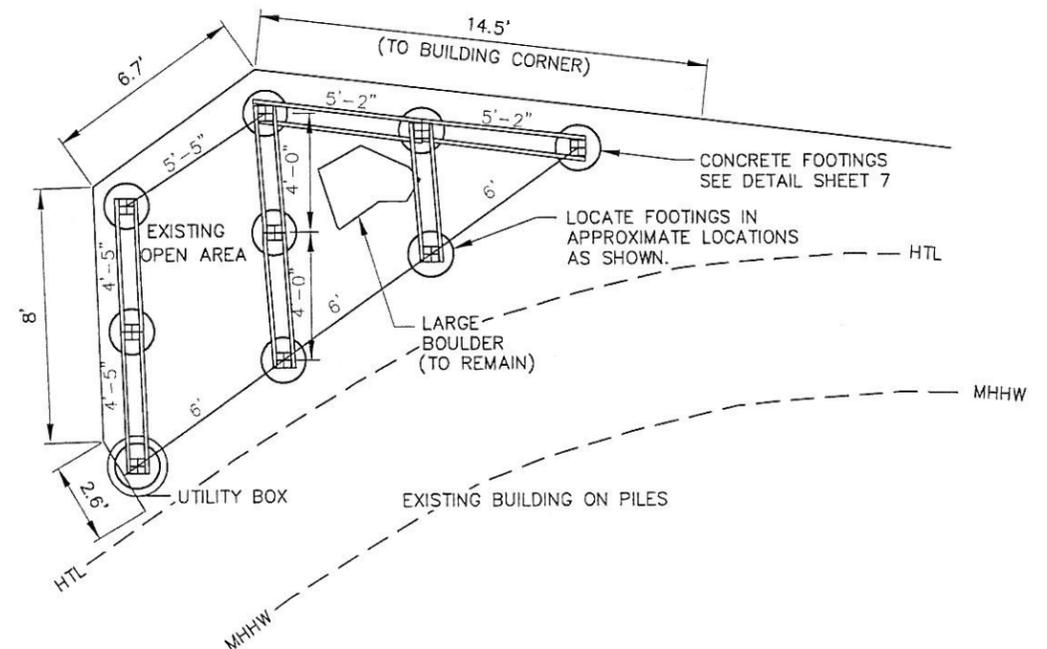
**FIRE FIGHTERS MUSTER AREA**  
FRAMING PLAN

**NOTES:**

1. ALL FOOTING LOCATIONS ARE APPROXIMATE. ADJUST PLACEMENT AS NEEDED PER APPROVAL OF ENGINEER.
2. THE CONCRETE FOOTING WORK FOR THE FIRE HOUSE MUSTER AREA IS LOCATED AT MEAN HIGH HIGHWATER (MHHW). THE CONTRACTOR SHALL SCHEDULE THE WORK DURING FAVORABLE TIDES AND SHALL NOT POUR CONCRETE IN SEA WATER NOR WHEN WAVE ACTION MAY DAMAGE FRESHLY POURED CONCRETE.
3. EXISTING DIAGONAL BRACING MAY NEED TO BE REMOVED AND REATTACHED AT A SLIGHTLY DIFFERENT ANGLE TO CONFORM WITH NEW OR REPAIR WORK OR REMOVED AND REPLACED PER DIRECTION OF THE ENGINEER. ALL SUCH WORK SHALL BE PAID FOR UNDER ITEM 506(8), REMOVE AND REPLACE 2" x 6" BRACING.
4. CIRCULAR OR SQUARE FORMS MAY BE USED.



**SECTION "A-A"**



**FIRE FIGHTERS MUSTER AREA**  
FOUNDATION PLAN

PATH: Q:\ELF\69211\PLANSET\DWG\DET3		
PLOT: 1=1(F) OR 1=2(H)		
BY:	DATE:	DESCRIPTION OF CHANGE:
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STATE OF ALASKA  
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SOUTHEAST REGION

ELFIN COVE

ALASKA  
ELFIN COVE PEDESTRIAN BOARDWALK REPAIRS  
FED. NO. DC-238-06 ~ PROJECT NO. 69211  
**FIRE FIGHTERS MUSTER AREA DETAILS**

DESIGNED BY: J. PETROPULOS	PROJECT NO. 69211
DRAWN BY: D. STEVENS	DATE: MAY, 2009
CHECKED BY: J. PETROPULOS	SHEET 11 OF 11

