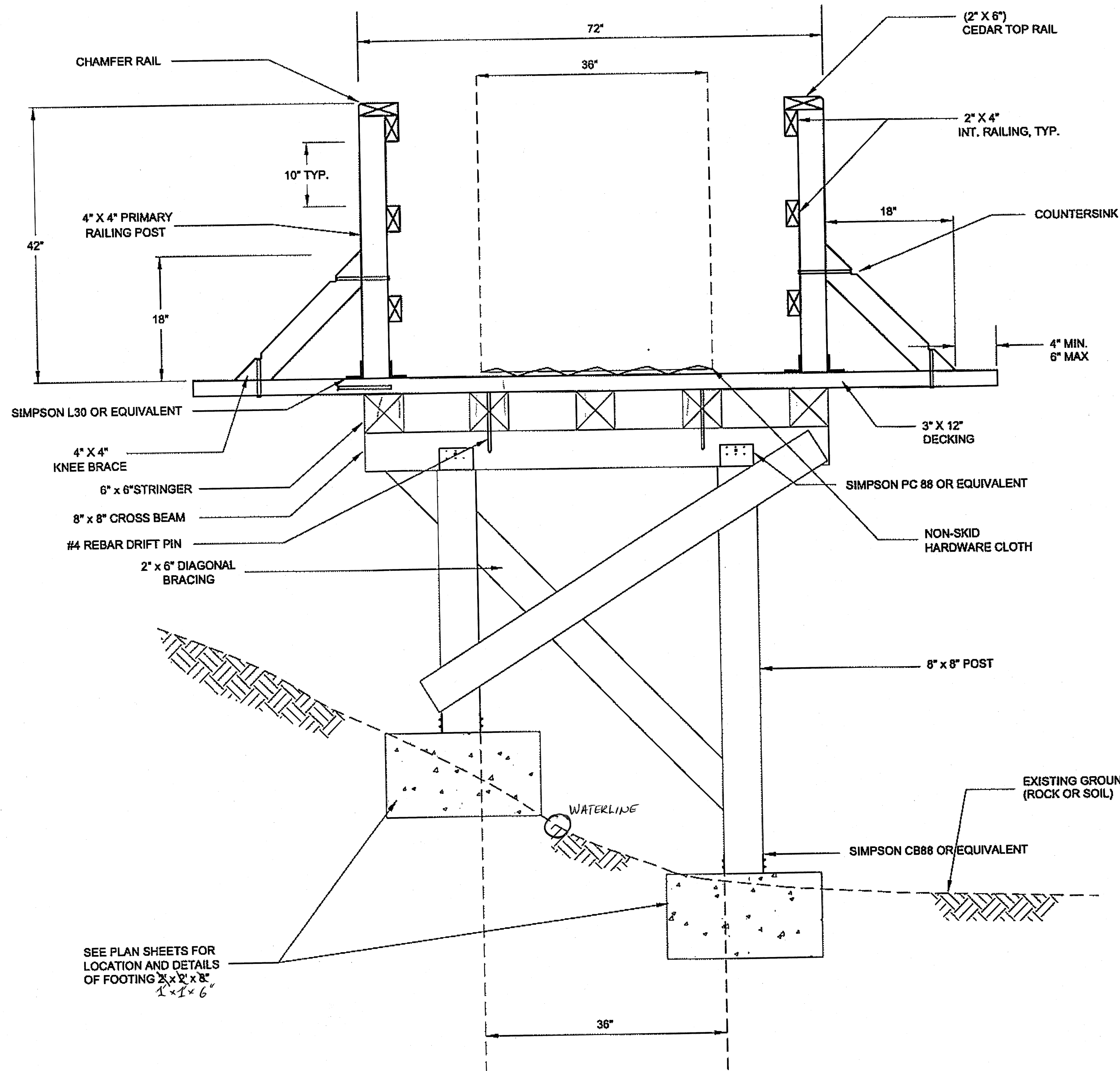


PORT ALEXANDER BOARDWALK



TYPICAL BOARDWALK SECTION "A-A"

GENERAL NOTES:

- ALL TIMBER DIMENSIONS GIVEN ARE NOMINAL S4S.
- ALL REMOVED MATERIALS WILL BECOME THE PROPERTY OF THE CITY OF PORT ALEXANDER.
- THE BOARDWALK AND TRAIL SYSTEM ARE THE CITY OF PORT ALEXANDER'S ONLY LAND BASED TRANSPORTATION NETWORK.
- THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF EXISTING CONSTRUCTION PRIOR TO ORDERING TIMBER MATERIALS.
- 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 FOR FURTHER INFORMATION ON OPEN BURNING.
- THE CONTRACTOR SHALL MATCH EXISTING CONSTRUCTION WHERE IT DOES NOT CONFORM TO THE TYPICALS SHOWN ON THE PLANS.
- FOOTING MAY BE FIELD ADJUSTED IF WATER LINE LOCATION VARIES PER DIRECTION OF THE ENGINEER.
- USE 6" DECKING PLANKS EXCEPT AT RAIL POST, USE 10' DECKING PLANKS.
- THE MAXIMUM GAP BETWEEN DECKING IS 1/4", THE MINIMUM GAP BETWEEN BOARDS IS 1/8".
- USE CROSS BRACING WHERE POST HEIGHT EXCEEDS 3 FEET.

CONNECTION SCHEDULE

MEMBER	TO	MEMBER	CONNECTOR	COMMENTS
3" x 12" DECKING		6" x 6" STRINGER	40d GALV. SPIKE	2 SPIKES PER STRINGER PREDRILL HOLES
4" x 4" KNEE BRACE		3" x 12" DECKING & 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 COUNTER SINK SIMPSON L30 OR EQUIVALENT	4 EACH PER CONNECTION
2" x 6" TOP RAIL OR 2" x 4" INT. RAILING		4" x 4" PRI. POST	16d GALV. COMMON NAIL	2 EACH PER CONNECTION
HARDWARE CLOTH		3" x 12" DECKING	1" GALV. STAPLE	SEE SPECIFICATIONS
2" x 6" DIAGONAL BRACING		8" x 8" POST	20d GALV. SPIKE	4 EACH PER CONNECTION
8" x 8" POST		8" x 8" CROSS BEAM	SIMPSON PC88 GALV. CONNECTOR OR EQUIVALENT	NAIL PER MANUFACTURERS RECOMMENDATION
6" x 6" STRINGER		8" x 8" CROSS BEAM	1/2" DRIFT PIN	THROUGH THE STRINGER AND CROSS BEAM AT STAGGERED INTERVALS. SEE SHEET 4
6" x 6" STRINGER		6" x 6" STRINGER	SIMPSON HTP37Z STRAP TIES OR EQUIVALENT	CONNECTING THE BUTTED ENDS OF STRINGERS ABOVE CROSS BEAM

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Eng. *[Signature]* Date 7-15-16

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:Q:\SEA\69218\EN\PORT ALEX-SHEET 2-TYPICAL SECTION.DWG

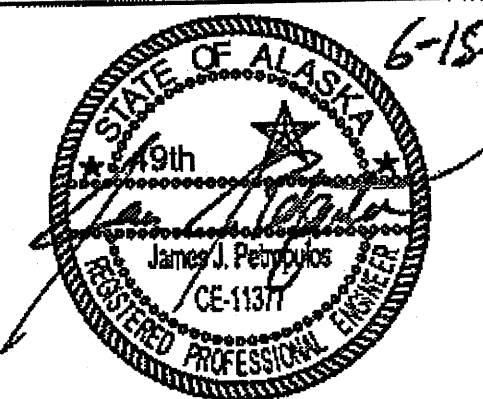
WHITE, JANELLE R (DOT)
TAB: 2 Wednesday, June 03, 2009 2:00:17 PM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PORT ALEXANDER BOARDWALKS
PROJECT NO. 69218

TYPICAL BOARDWALK AND
HANDRAIL SECTION

CHECKED BY: J. PETROPULOS



DESIGNED BY: J. WHITE

DRAWN BY: J. WHITE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

PORT ALEXANDER
BOARDWALKS
PROJECT NO. 69218

TYPICAL BOARDWALK
AND
HANDRAIL SECTION

PROJECT DESIGNATION

DC 233-06 & 394-08

STATE YEAR

ALASKA 2009

SHEET NUMBER TOTAL SHEETS

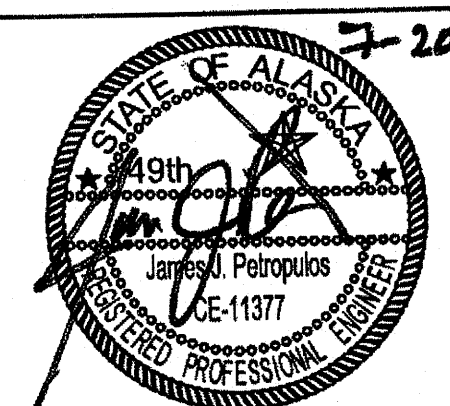
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RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
1		
2		
3		

PORT ALEXANDER BOARDWALKS
PROJECT NO. 69218

FOOTING DETAIL

CHECKED BY: J. PETROPULOS



DESIGNED BY: J. WHITE

DRAWN BY: J. WHITE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

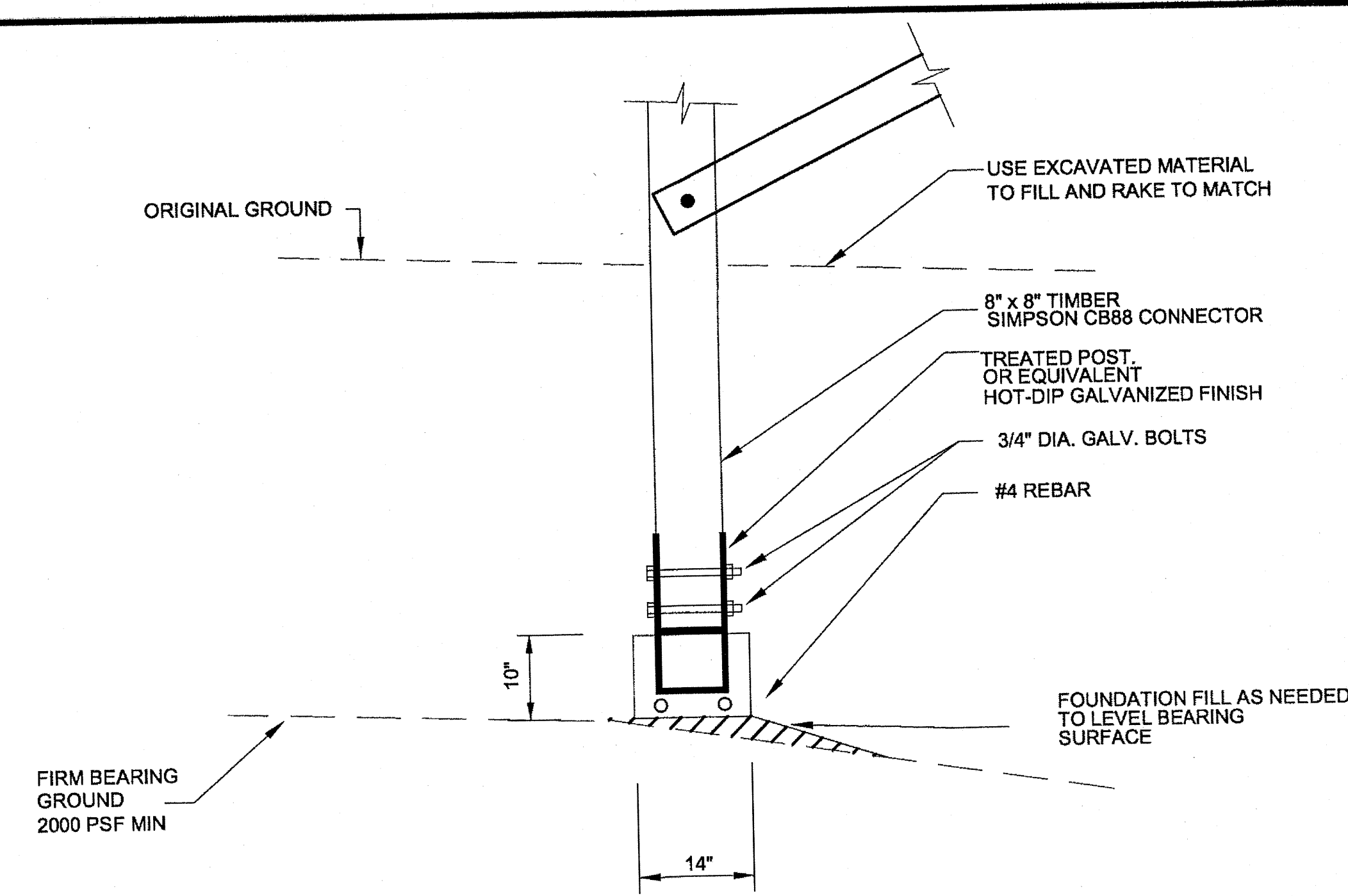
PORT ALEXANDER
BOARDWALKS
PROJECT NO. 69218

BOARDWALK ELEVATION
AND
FOOTING DETAIL

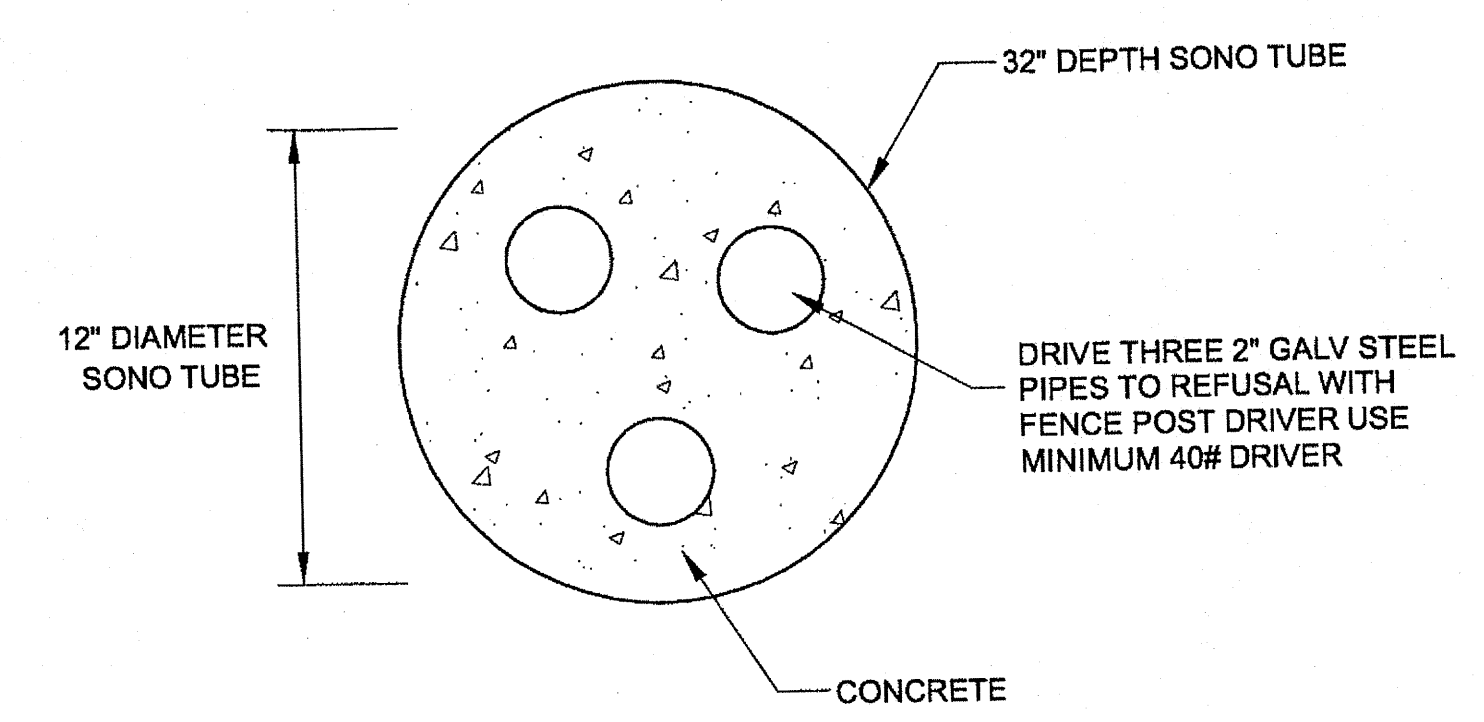
PROJECT DESIGNATION	
DC 233-06 & 394-08	
STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
3	11

GENERAL NOTES:

- ALL FOOTING DEVIATIONS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
- ACCEPTANCE MUST BE OBTAINED FROM THE PROJECT ENGINEER FOR EACH FOOTING PREPARATION PRIOR TO PLACEMENT OF CONCRETE.

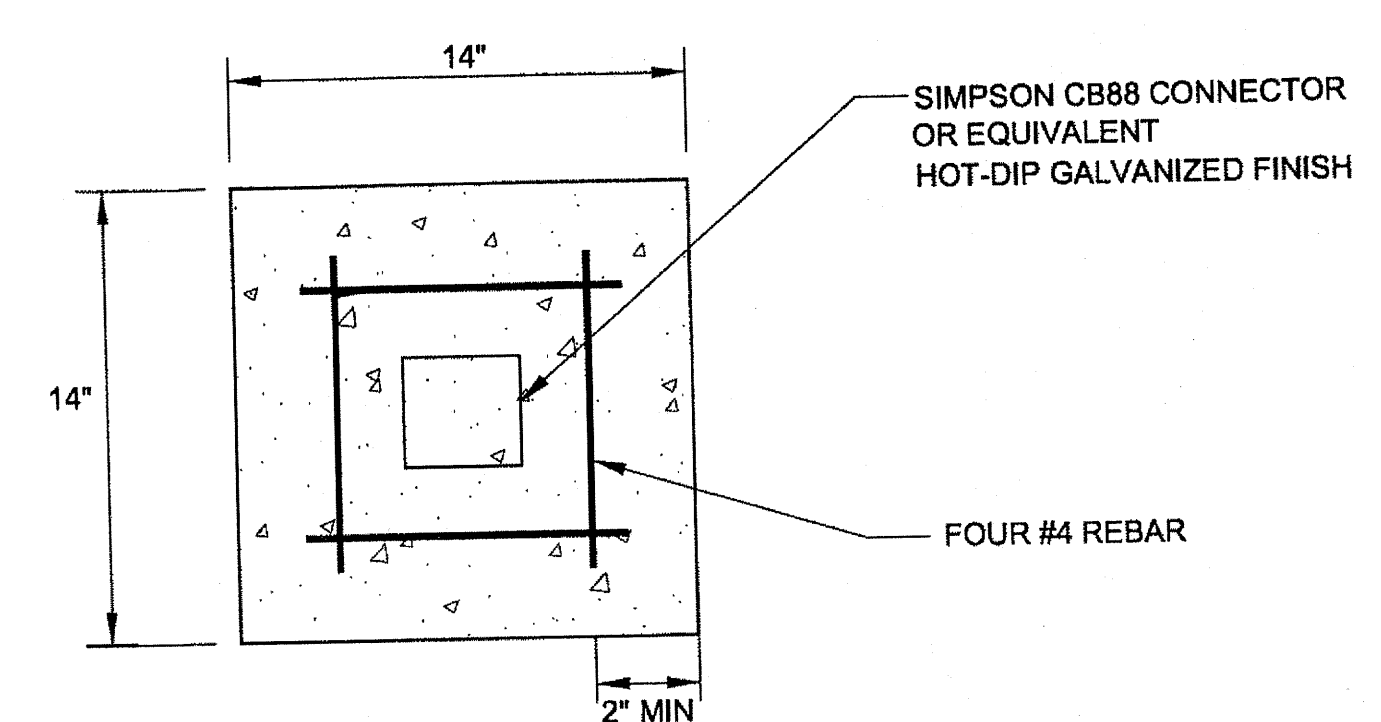


TYPICAL FOOTING
PROFILE VIEW

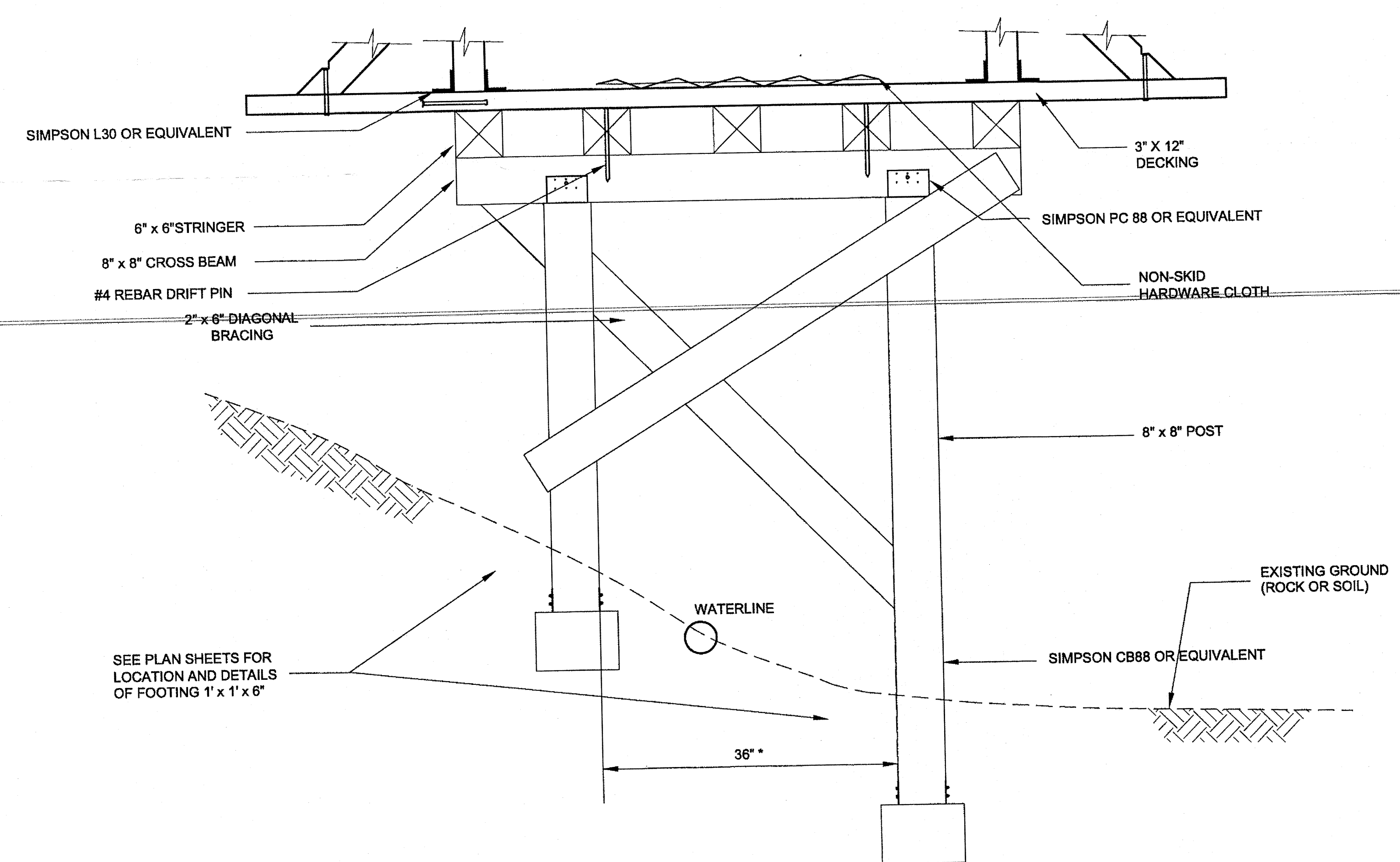


CONCRETE FOOTING - (TYPICAL)
STA. 16+40 TO STA. 17+12

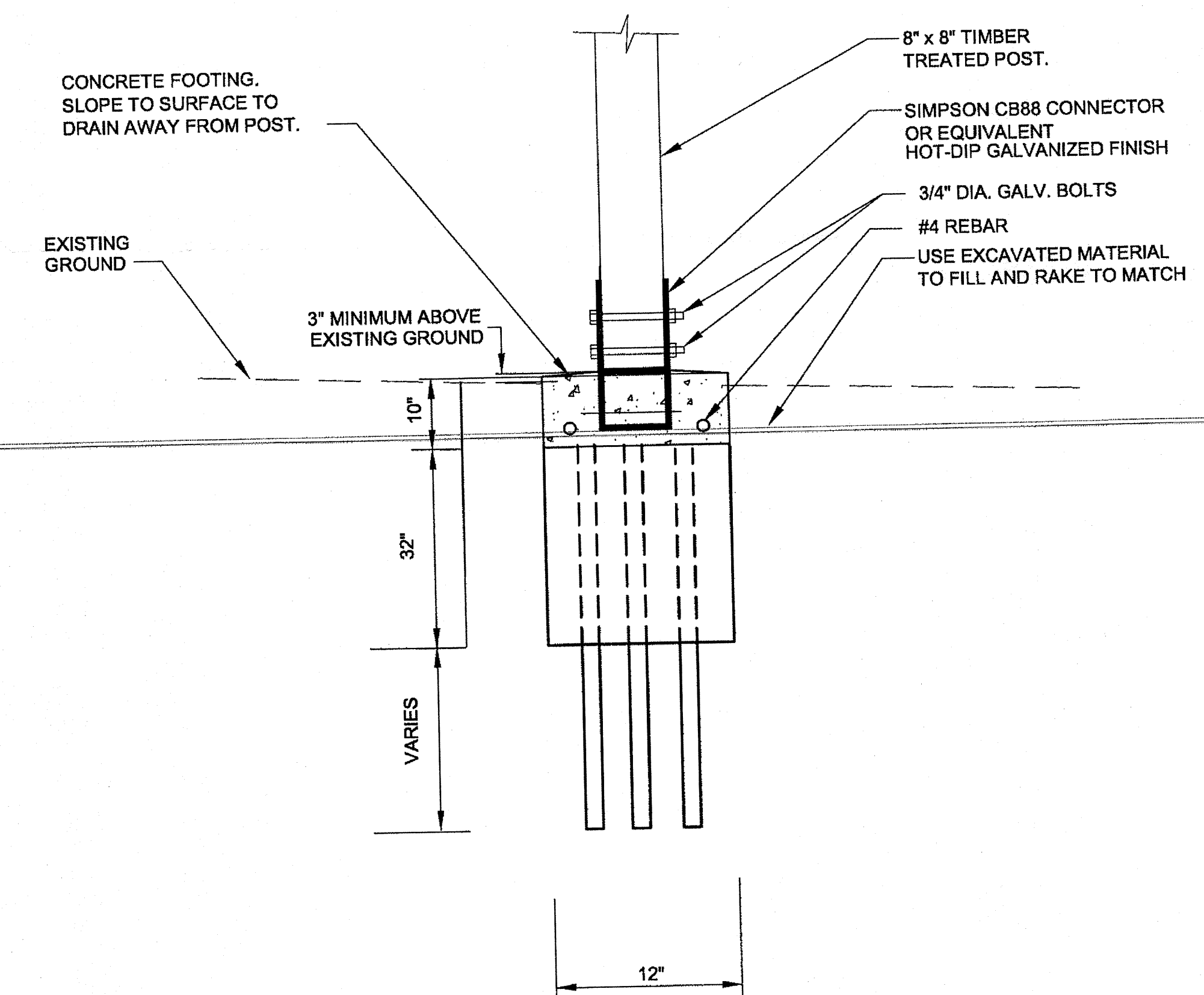
PLAN VIEW



CONCRETE FOOTING - (TYPICAL)
PLAN VIEW



BOARDWALK SECTION AT WATER LINE
CROSSING

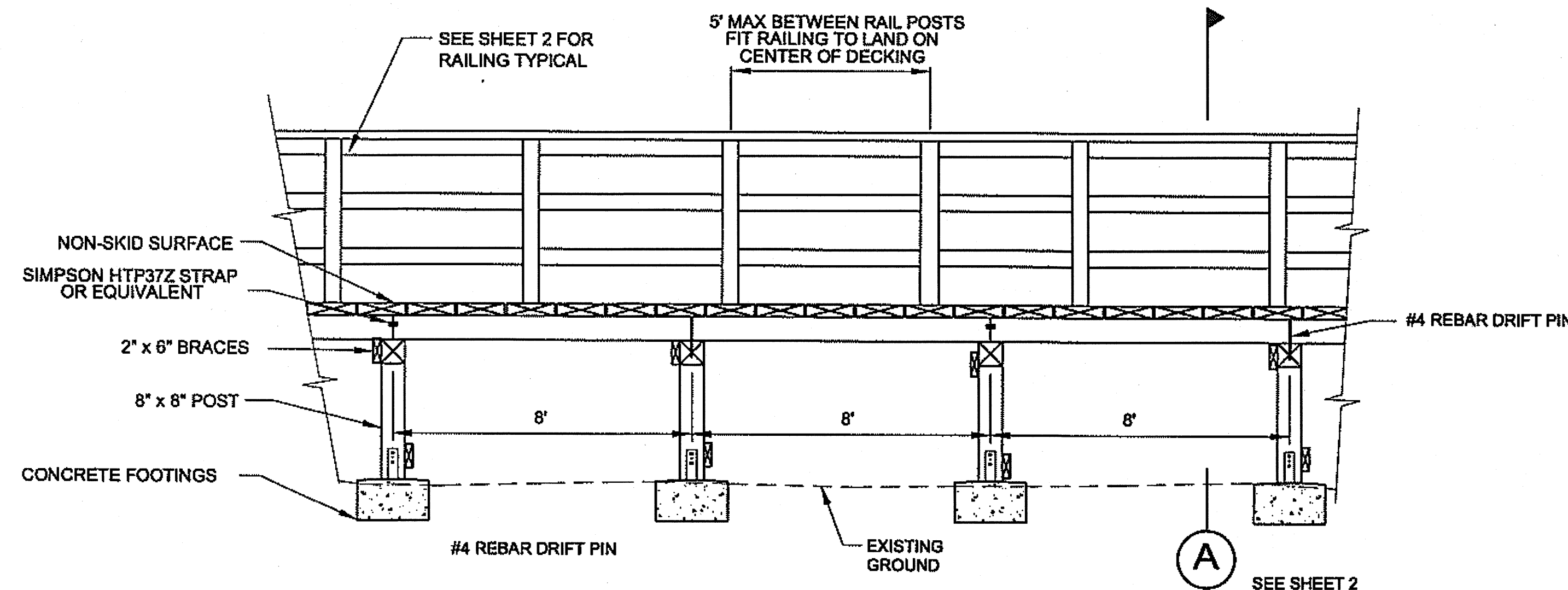


DEEP FOOTING
PROFILE VIEW

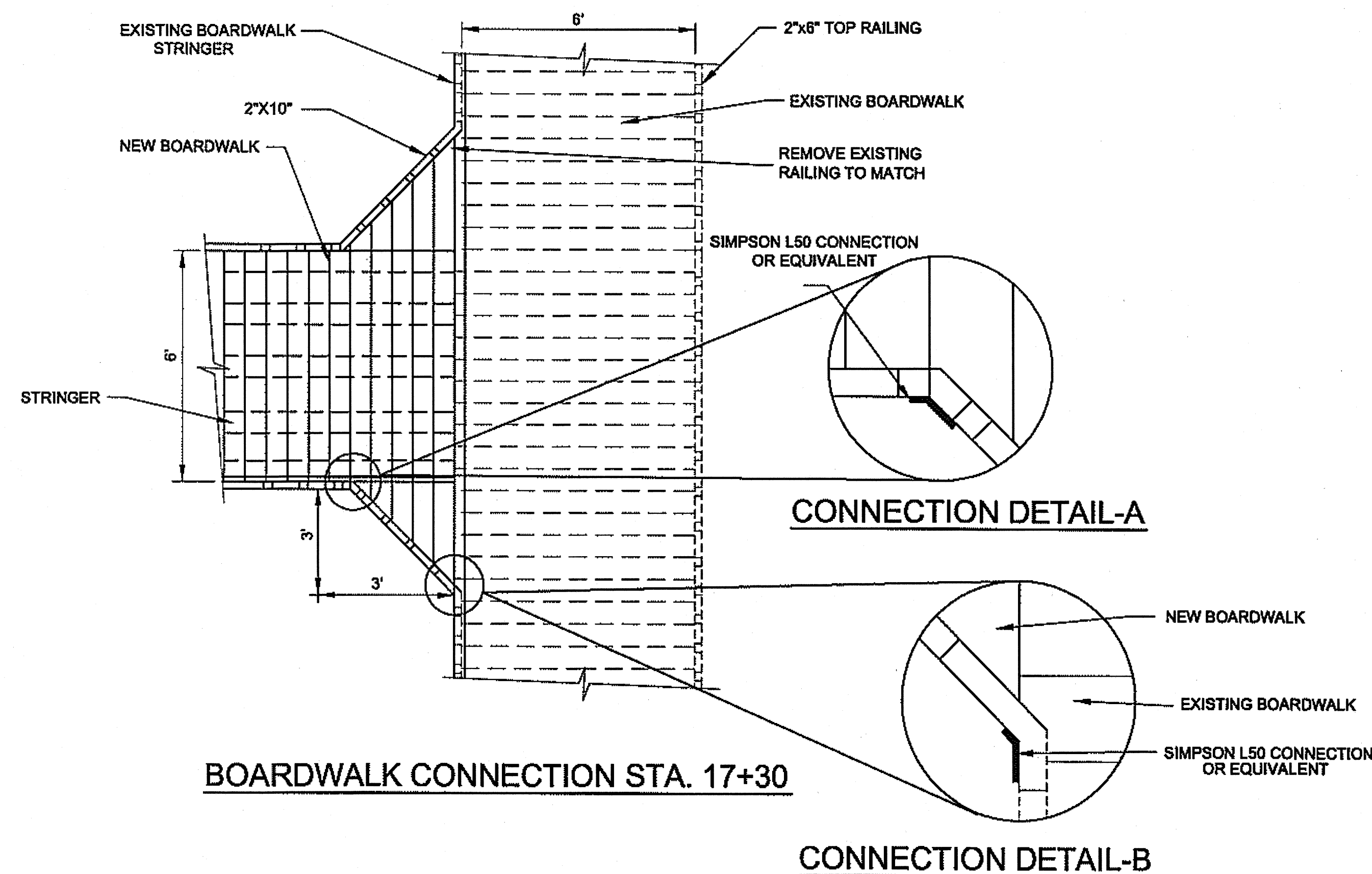
- WITH ENGINEER'S APPROVAL, FIELD ADJUST LONGITUDINAL SPACING OF POST WITHIN PROXIMITY OF WATERLINE WITHIN RIGHT OF WAY. LONGITUDINAL POST SPACING IS 8' MAXIMUM.
- *WITH ENGINEER'S APPROVAL, FIELD ADJUST TRANSVERSE SPACING OF POST WITHIN PROXIMITY OF WATERLINE WITHIN RIGHT OF WAY. TRANSVERSE POST SPACING IS 6' MAXIMUM.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Eng. *[Signature]* Date 7-15-10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

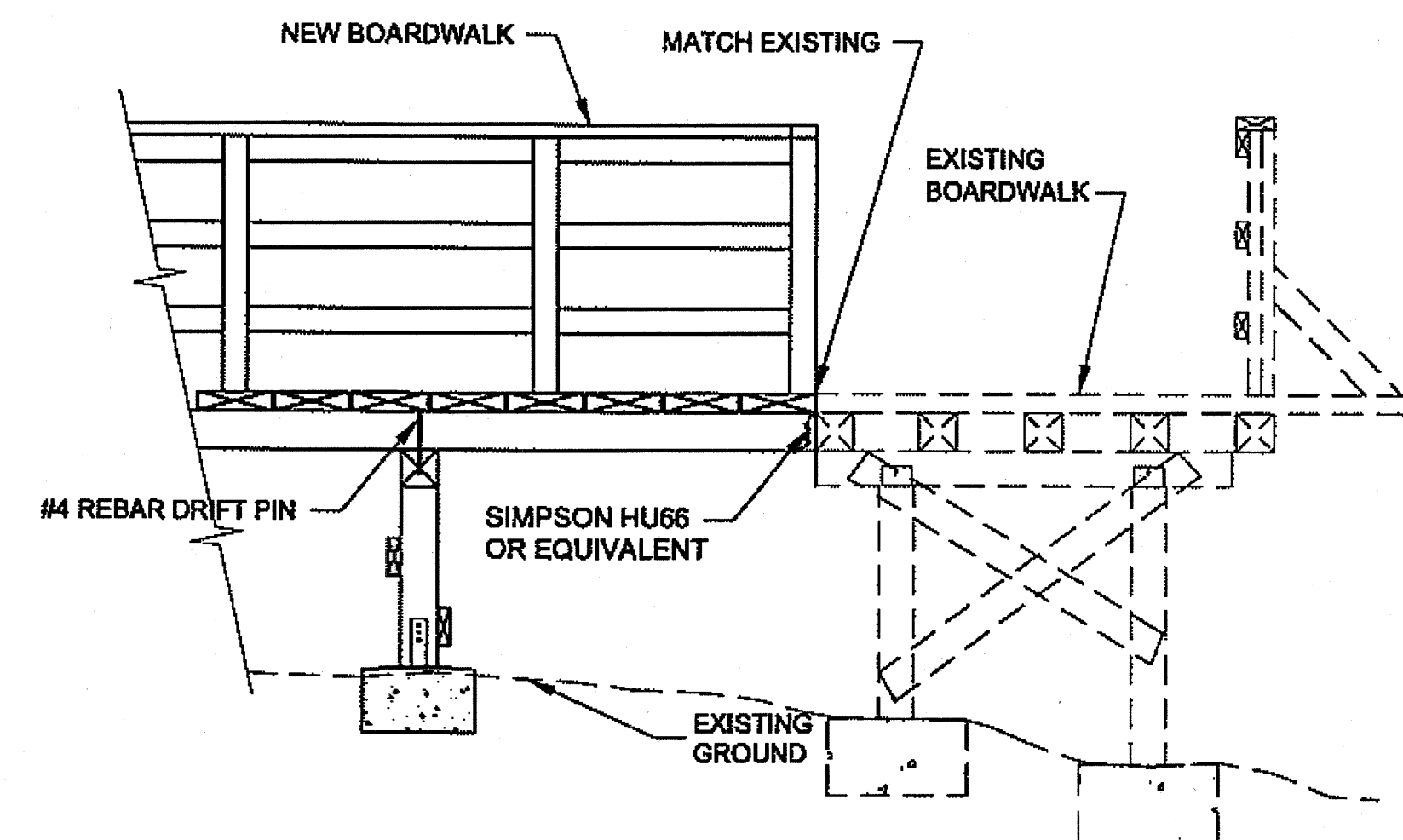


BOARDWALK ELEVATION



GENERAL NOTES:

1. FOR ALL TRANSITIONAL RAILING INSTALL END POST AND TIES INTO EXISTING AND NEW RAILING.
2. SIMPSON L50 CONNECTORS OR EQUIVALENT MUST BE ADJUSTED TO NEEDED ANGLE. CONNECTOR SHALL NOT EXCEED ONE BEND TO ADJUST.



BOARDWALK CONNECTION PROFILE STA. 17+30

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 Proj. Eng. *[Signature]* Date 7-15-10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:Q:\SEA\69218\EN\PORT ALEX-SHEET 3&4- FOOTING TYPICAL.DWG

WHITE, JANELLE R (DOT)
 TAB: 4 Wednesday, June 10, 2009 2:10:38

ADDENDUM NUMBER

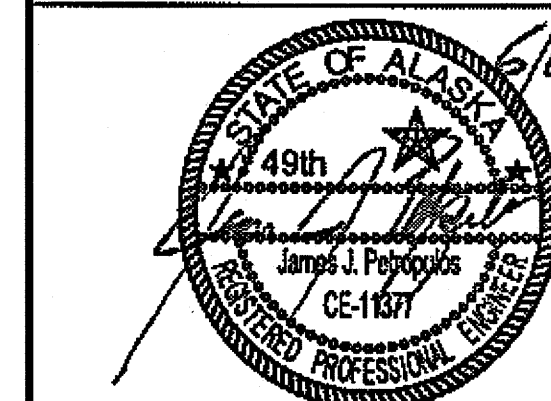
ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PORT ALEXANDER BOARDWALKS
 PROJECT NO. 69218

BOARDWALK ELEVATION

CHECKED BY: J. PETROPULOS



DESIGNED BY: J. WHITE

DRAWN BY: J. WHITE

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

PORT ALEXANDER
 BOARDWALKS
 PROJECT NO. 69218

BOARDWALK ELEVATION
 AND
 FOOTING DETAIL

PROJECT DESIGNATION

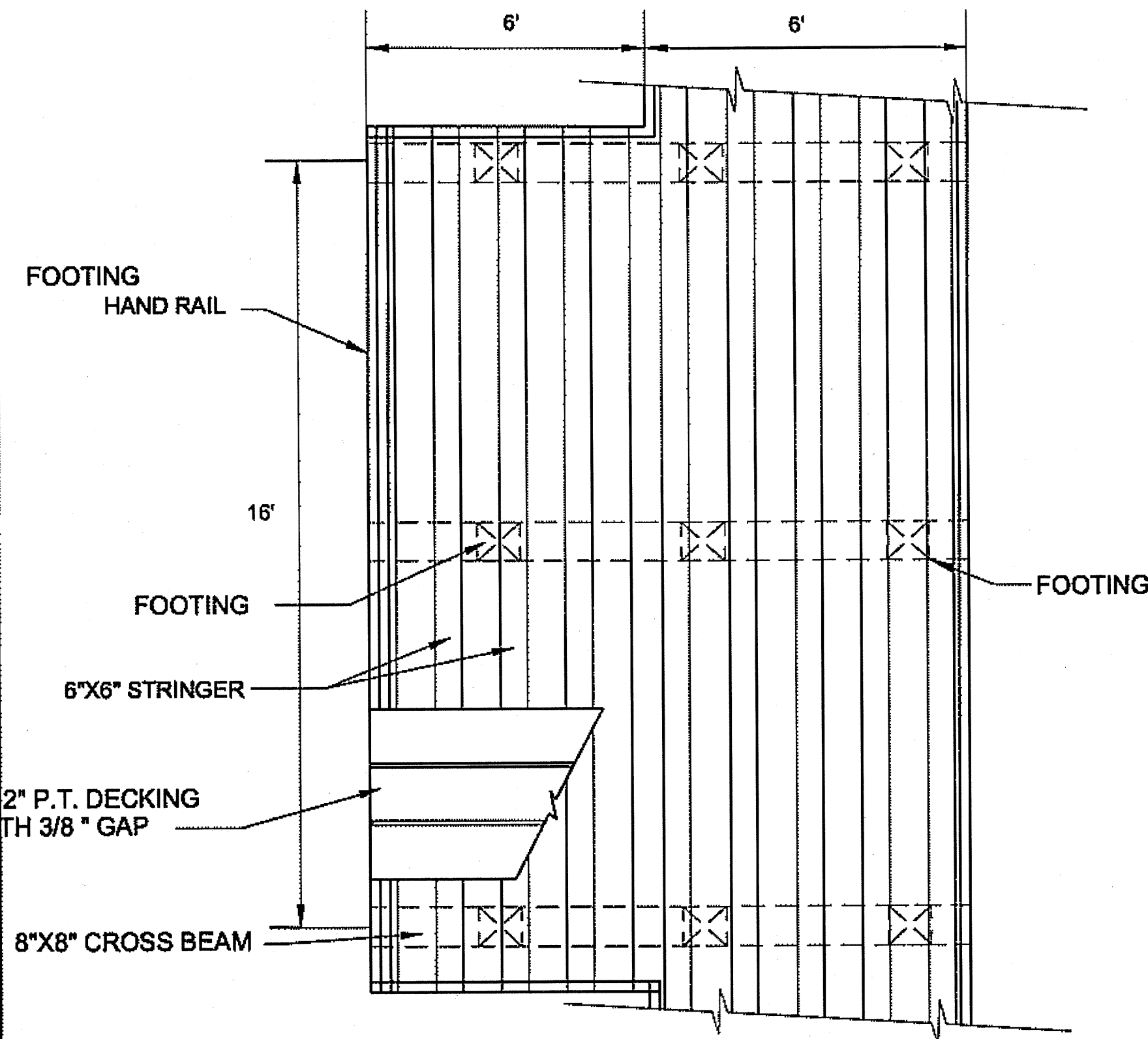
DC 233-06 & 394-08

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
4	11

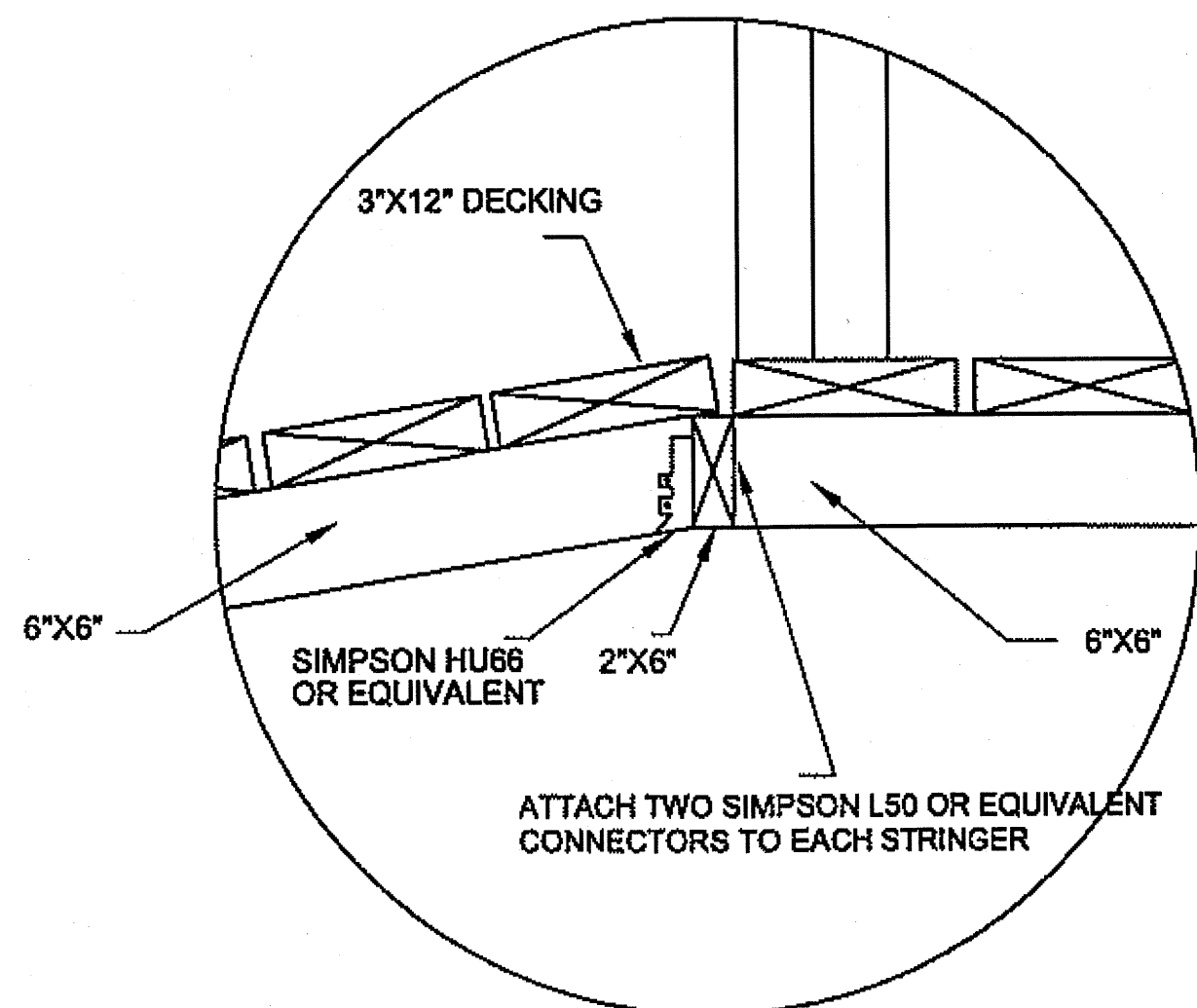
CONSTRUCTION NOTES:

- USE 1/2 INCH BOLTS TO FASTEN RAILING ON RAMP TO RAILING ON BOARDWALK FOR EASY REMOVAL.
- MATCH RAMP TO EXISTING PATH.
- ON APPROACHES KEEP SLOPE AT 12% MAX.
- TURNOUT AT STATION 15+00. RAILING SHOULD BE CONSTRUCTED AROUND THE OUTSIDE OF THE TURNOUT.
- PLACE ADJACENT STRINGER ENDS AT 8' ALTERNATING DISTANCES.
- USE SIMPSON HPT37Z OR EQUIVALENT TO STRAP BUTTED STRINGERS TOGETHER ABOVE CROSS BEAMS.
- USE NO. 4 REBAR AS CONNECTION BETWEEN 6"x6" STRINGERS AND 8"x8" CROSS BEAMS, EXCLUDING BUTTED ENDS. EMBED PIN 4" MINIMUM INTO CROSS BEAM.
- PRE-DRILL 3"x12" DECKING BOARDS WITH A 3/16" HOLE FOR 40d SPIKE TO PREVENT SPLITTING, ESPECIALLY AT ENDS OF BOARDS.
- PLACE RAILING ON APPROACH ON ELEVATIONS OVER 30'.

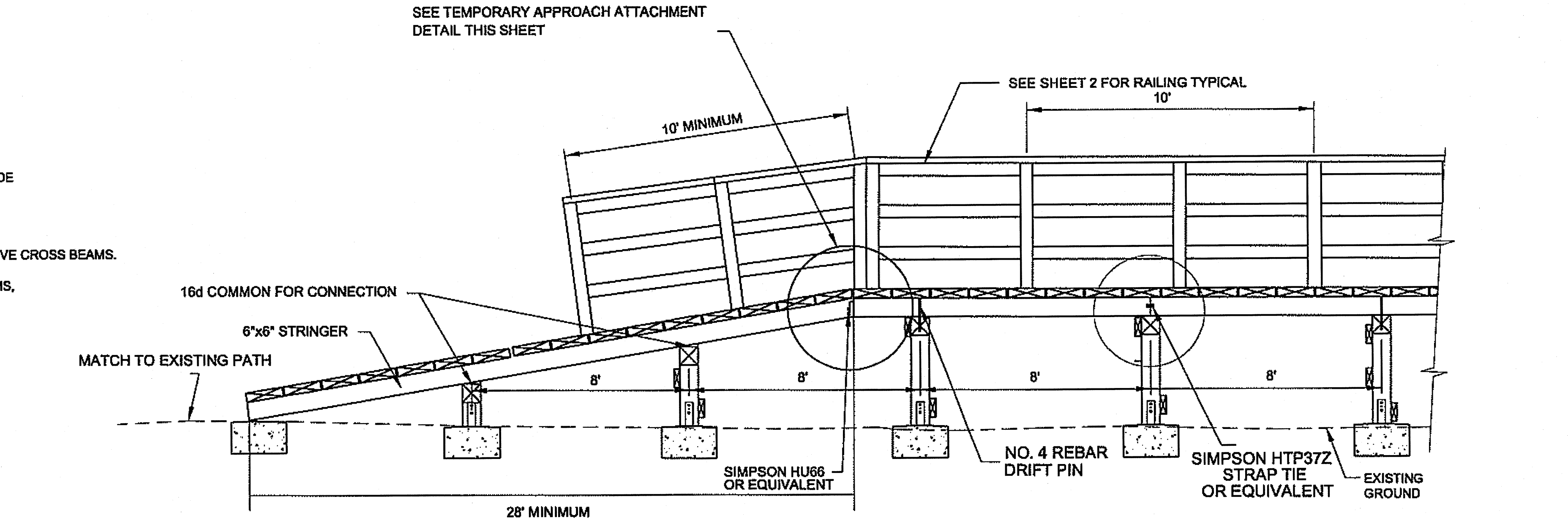
*MATCH FOOTINGS FOR TURNOUT TO FOOTINGS ON BOARDWALK



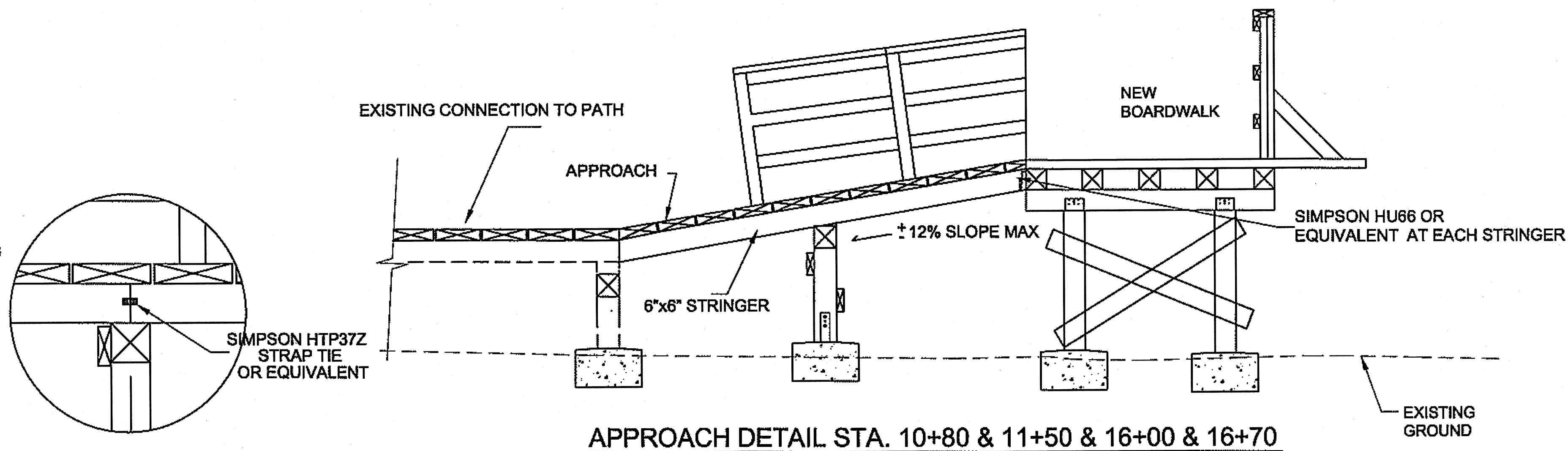
FRAMING TURNOUT DETAIL STA. 15+00*



TEMPORARY APPROACH ATTACHMENT
DETAIL STA. 10+01

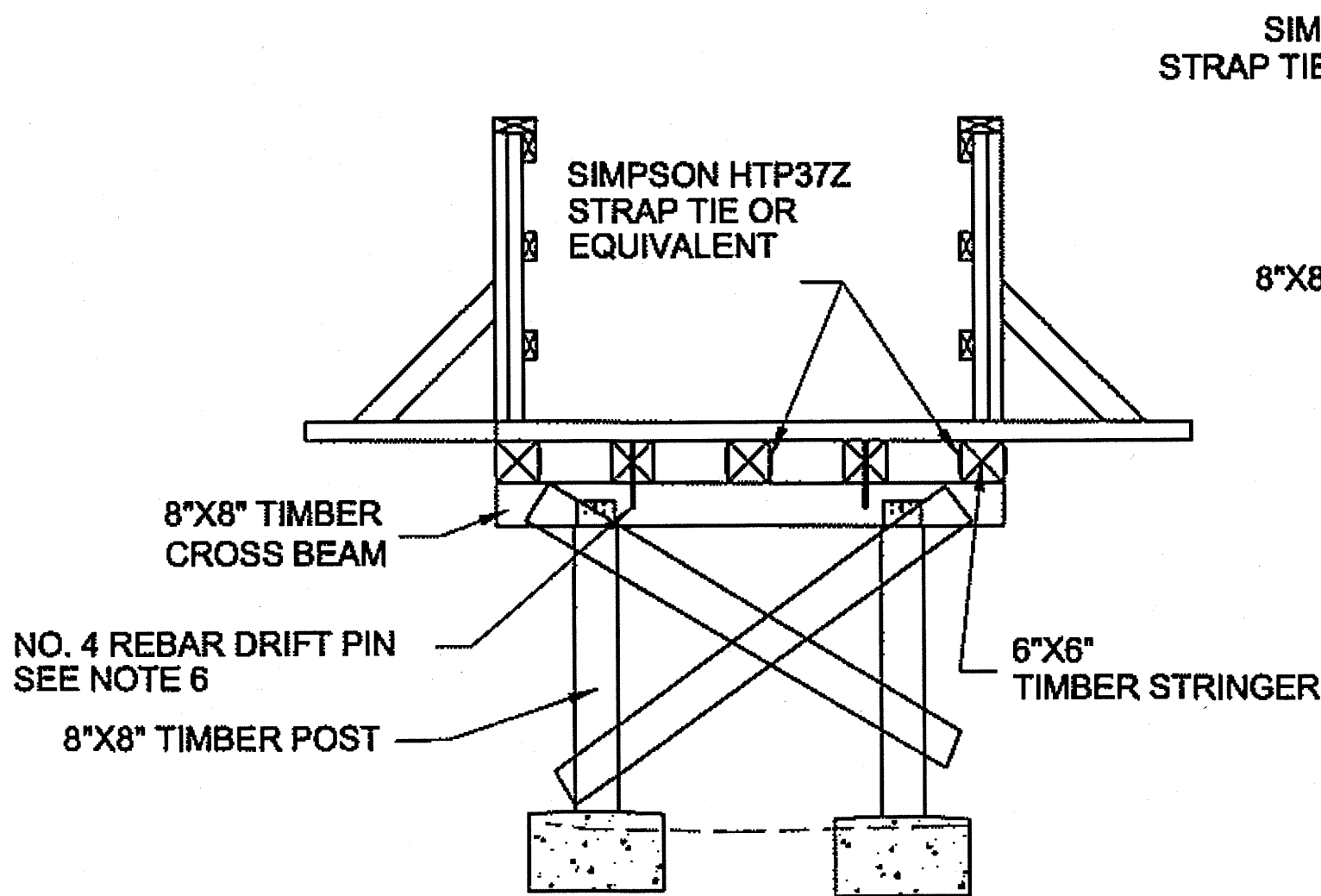


APPROACH DETAIL STA. 10+01

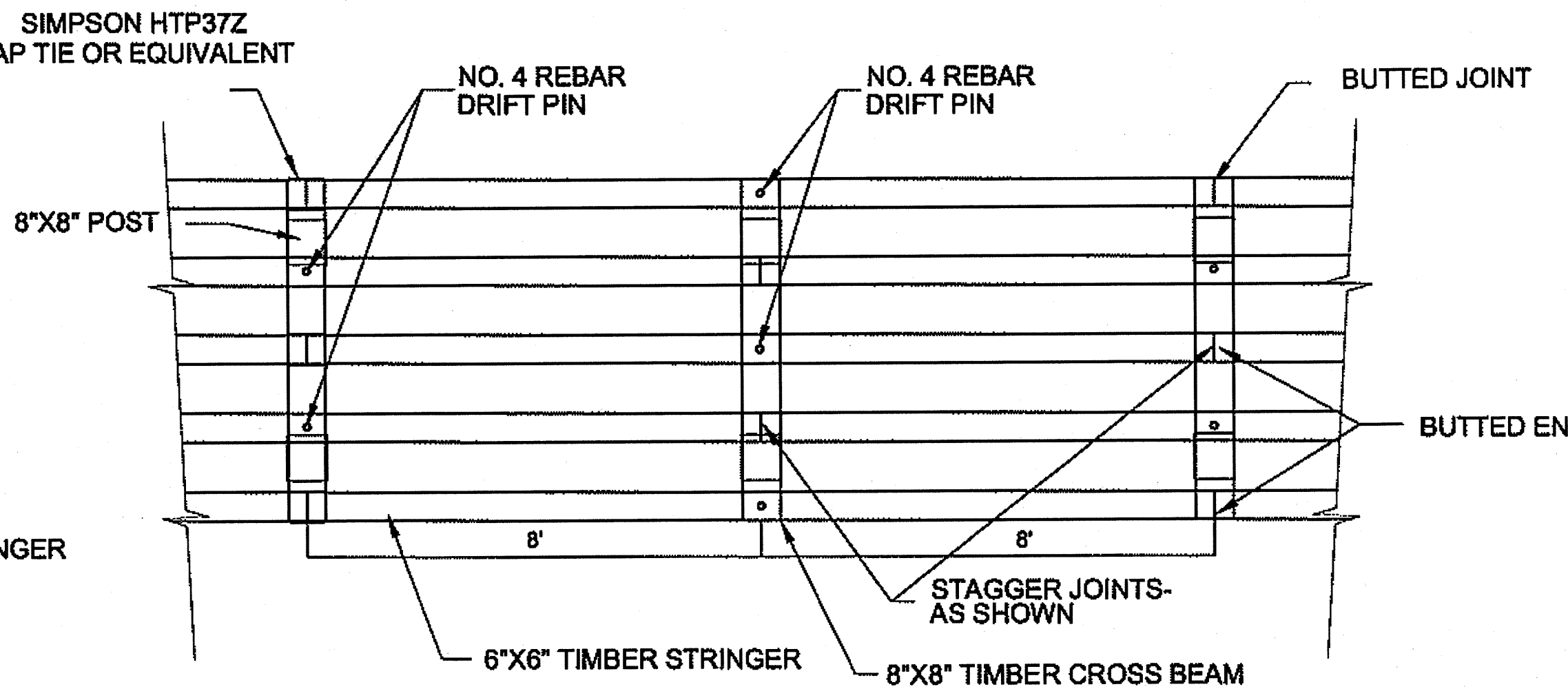


APPROACH DETAIL STA. 10+80 & 11+50 & 16+00 & 16+70

BUTTED ENDS DETAIL



BOARDWALK STRINGER TO CROSS BEAM
CONNECTION ELEVATION



BOARDWALK STRINGER TO CROSS BEAM
FRAMING AND CONNECTION PLAN

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Eng. *[Signature]* Date 7-15-10

PATH:Q:\SEA\6921\BEMP\PORT ALEX-SHEET 5-TURNOUT TYPICAL.DWG

WHITE, JANELLE R (DOT)
TAB: 5 Monday, June 15, 2009 1:29:54 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

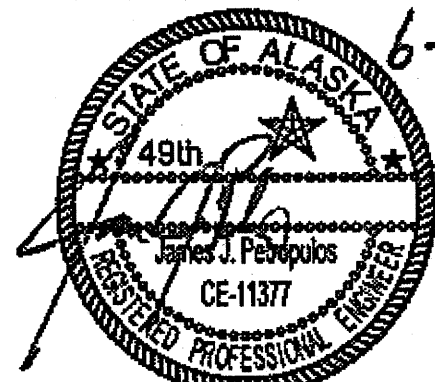
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PORT ALEXANDER BOARDWALKS
PROJECT NO. 69218

BOARDWALK ELEVATION AND
TURNOUT DETAIL

CHECKED BY: J. PETROPULOS



DESIGNED BY: J. WHITE

DRAWN BY: J. WHITE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

PORT ALEXANDER
BOARDWALKS
PROJECT NO. 69218

BOARDWALK ELEVATION
AND
FOOTING DETAIL

PROJECT DESIGNATION

DC 233-06 & 394-08

STATE YEAR

ALASKA 2009

SHEET NUMBER TOTAL SHEETS

5 11

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANTITY
205(3)	FOUNDATION FILL	CY	205
501(9)	FOOTINGS	EACH	220
501(10)	MICROPILE	EACH	26
506(5)	CONSTRUCT BOARDWALK	LUMP SUM	ALL REQUIRED
506(7)	FURNISH MISCELLANEOUS TIMBER	LUMP SUM	ALL REQUIRED
638(1)	WATTLES	LF	100
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640(4)	WORKER MEALS AND LODGING OR PER DIEM	LUMP SUM	ALL REQUIRED
641(1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
643(2)	TEMPORARY EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED

BASIS OF ESTIMATE

FOUNDATION FILL SUMMARY		
STATIONING	CUBIC YARDS	COMMENTS
10+00 TO 17+37	191	

CONCRETE FOOTING SUMMARY		
LOCATION	QUANTITY (EACH)	COMMENTS
10+00 TO STA. 17+36	196	

DECKING SUMMARY			
STATIONING	QUANTITY(FT)	TYPE	COMMENTS
10+00 TO 17+36	6300	12"x3" DECKING	

FURNISH MISCELLANEOUS TIMBER SUMMARY	
DIMENSION	LENGTH (ft)
4" x 4"	190'
3" x 12"	480'
6" x 6"	384'
8" x 8"	110
2" x 6"	45'
2" x 4"	450'

TIMBER SUPPORT SUMMARY		
SIZE	BOARD LENGTH	COMMENTS
8"x8"	780'	POSTS
6"x6"	3700'	STRINGERS
2"x6"	400'	BRACING
2"x4"	4430'	INTERIOR RAILING POSTS
4"x4"	1,650'	RAILING POSTS
2"x6"	1,480'	CEDAR TOP RAIL

APPROACH SUMMARY			
LOCATION	LENGTH	QUANTITY	COMMENTS
10+00	28'	1 EA.	USE RAMP DETAIL TO CONNECT TO EXISTING BOARDWALK--USE DETAIL ON SHEET 5
① 10+00	12'	1 EA.	USE APPROACH DETAIL TO CONNECT TO EXISTING APPROACH--USE DETAIL ON SHEET 5
11+36	45'	1 EA.	USE APPROACH DETAIL TO CONNECT TO EXISTING APPROACH--USE DETAIL ON SHEET 5
16+00	9'	1 EA.	USE APPROACH DETAIL TO CONNECT TO EXISTING BOARDWALK--USE DETAIL ON SHEET 5
16+70	3'	1 EA.	USE CONNECTION DETAIL TO CONNECT TO EXISTING BOARDWALK--USE DETAIL ON SHEET 5
17+32	10'	1 EA.	USE CONNECTION DETAIL TO CONNECT TO EXISTING BOARDWALK--USE DETAIL ON SHEET 4

DECK SURFACING			
LOCATION	AREA	TYPE	COMMENTS
10+00 - 17+31	2450 SQ-FT	HARDWARE CLOTH	

① Parallel walkway built on left/west side of boardwalk @ 80' @

CONSTRUCTION NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FACTOR IN ADDITIONAL TIMBER FOR WASTE, BREAKAGE AND DEFECTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY QUANTITIES SHOWN ON PLANS.
- QUANTITIES SHOWN ARE THE ENGINEER'S ESTIMATE.

HARDWARE LIST		
ITEM	QTY	COMMENTS
SIMPSON PC88 OR EQUIVALENT	220	
SIMPSON HU66 OR EQUIVALENT	30	
SIMPSON CB88 OR EQUIVALENT	220	
SIMPSON L50 OR EQUIVALENT	4	
SIMPSON HTP37Z OR EQUIVALENT	490	
SIMPSON L30 OR EQUIVALENT	300	

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Eng. *[Signature]* Date 7-15-10

PATH:Q:\SEA\6921\EN\PI\PORT ALEX-SHEET 687- QUANTITIES.DWG

WHITE, JANELLE R (DOT)
TAB: 6 Wednesday, June 10, 2009 2:28:46

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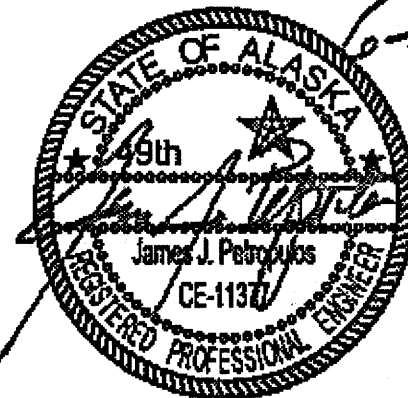
ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PORT ALEXANDER BOARDWALKS
PROJECT NO. 69218

BOARDWALK MATERIAL
SUMMARY AND ESTIMATE OF
QUANTITIES

CHECKED BY: J. PETROPULOS



DESIGNED BY: J. WHITE

DRAWN BY: J. WHITE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

PORT ALEXANDER
BOARDWALKS
PROJECT NO. 69218

QUANTITIES

PROJECT DESIGNATION

DC 233-06 & 394-08

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
6	11

8" x 8" POST LENGTH TABLE

STATION	TOP OF DECK	POST CUTOFF EL.	ELEVATION (FT)		POST LENGTH (FT)	
			EXISTING GROUND		WEST POST	EAST POST
			WEST	EAST		
10+00	46.808	45.516	40.924	40.924	4'-5 5/8"	4'-5 5/8"
10+08	47.46	46.168	41.84	41.806	4'-2 1/2"	4'-5 1/4"
10+16	48.173	46.881	42.503	42.207	4'-3"	4'-6 5/8"
10+24	48.856	47.564	43.128	42.788	4'-3 3/4"	4'-7 7/8"
10+32	49.539	48.247	43.718	43.394	4'-4 7/8"	4'-8 3/4"
10+40	50.223	48.931	44.18	44.045	4'-7 1/2"	4'-9 1/8"
10+48	50.906	49.614	44.477	44.369	5'-1/8"	5'-1 1/2"
10+56	51.59	50.298	44.903	44.787	5'-3 1/4"	5'-4 7/8"
10+64	52.272	50.980	45.196	45.089	5'-7 7/8"	5'-9 1/4"
10+72	52.956	51.664	45.551	45.623	5'-11 7/8"	5'-11"
10+80	53.639	52.347	45.973	46.034	6'-3"	6'-2 1/4"
10+88	54.003	52.711	46.147	46.149	6'-5 1/4"	6'-5 1/4"
10+96	54.665	53.373	46.771	46.866	6'-5 3/4"	6'-4 5/8"
11+04	55.327	54.035	47.622	47.874	6'-3 1/2"	6'-3/8"
11+12	55.988	54.696	47.971	48.041	6'-7 1/4"	6'-6 3/8"
11+20	56.652	55.360	48.421	48.647	6'-9 3/4"	6'-7"
11+28	56.892	55.600	49.858	50.851	5'-7 3/8"	4'-7 1/2"
11+36	54.916	53.624	51.423	53.435	2'-7/8"	0'-3/4"
11+44	58.624	57.332	53.177	55.924	4'-3/8"	1'-3 3/8"
11+52	59.315	58.023	54.669	56.925	3'-2 3/4"	0'-11 5/8"
11+60	59.992	58.700	56.022	58.157	2'-6 5/8"	0'-5"
11+68	60.555	59.263	56.746	58.371	2'-4 3/4"	0'-9 1/4"
11+76	60.990	59.698	58.681	59.937	0'-10 3/4"	0'-4 3/8"
11+84	61.225	59.698	60.370	61.585	0'-6 3/4"	1'-9 3/8"
11+92	62.321	61.029	61.699	62.829	0'-9 1/2"	1'-11 1/8"
12+00	63.371	62.079	62.876	63.960	0'-11"	2'-1/8"
12+08	64.025	62.733	62.214	64.364	0'-4 3/4"	1'-9 1/8"
12+16	64.681	63.389	61.968	64.506	1'-3 1/2"	1'-2 7/8"
12+24	65.106	63.814	64.679	66.008	0'-11 7/8"	2'-3 7/8"
12+32	65.507	64.591	66.024	66.044	0'-11 1/4"	1'-11 1/2"
12+40	65.883	64.591	66.333	66.148	1'-10 3/8"	1'-8 1/8"
12+48	66.259	64.967	66.674	66.414	1'-10"	1'-6 7/8"
12+56	68.305	67.013	66.600	66.324	0'-3 1/2"	0'-6 3/4"
12+64	68.871	67.679	66.531	66.332	0'-11 7/8"	1'-1 1/4"
12+72	69.438	68.146	66.711	66.532	1'-3 3/4"	1'-5 7/8"
12+80	70.005	68.713	67.425	67.114	1'-2"	1'-5 6/8"
12+88	70.534	69.242	67.915	67.573	1'-2 3/8"	1'-6 1/2"
12+96	71.233	69.941	68.803	68.338	1'-1/8"	1'-5 6/8"
13+04	71.889	70.597	70.114	69.573	0'-4 1/4"	0'-10 3/4"
13+12	72.547	71.255	71.365	71.018	0'-2 7/8"	0'-1 3/8"
13+20	73.205	71.913	73.144	73.014	1'-4 1/4"	1'-2 3/4"
13+28	73.863	72.571	73.748	73.749	1'-3 5/8"	1'-3 5/8"
13+36	74.521	73.229	75.214	75.205	2'-1 3/8"	2'-1 1/4"
13+44	75.179	73.887	76.038	76.319	2'-3 1/4"	2'-6 5/8"
13+52	75.528	74.236	76.325	76.718	2'-2 5/8"	2'-7 1/4"
13+60	75.096	73.804	73.182	72.790	0'-6"	0'-10 5/8"
13+68	74.663	73.371	73.820	73.355	0'-6 7/8"	0'-1 1/4"
13+76	74.230	72.938	74.034	74.009	1'-2 5/8"	1'-2 3/8"
13+84	73.710	72.418	71.903	71.022	0'-4 5/8"	1'-3 1/4"
13+92	73.060	71.768	67.589	67.436	4'-5/8"	4'-2 1/2"
14+00	72.410	71.118	66.602	66.132	4'-4 3/4"	4'-10 3/8"
14+08	71.760	70.468	66.177	65.624	4'-2"	4'-8 5/8"
14+16	71.110	69.818	65.496	64.947	4'-2 3/8"	4'-9"
14+24	70.461	69.169	64.988	64.295	4'-5/8"	4'-9"
14+32	69.810	68.518	64.562	63.846	3'-10"	4'-6 5/8"
14+40	69.161	67.869	64.234	63.567	3'-6 1/8"	4'-2 1/8"
14+48	68.511	67.219	63.833	63.173	3'-3 1/8"	3'-11"
14+56	67.946	66.654	63.673	62.837	2'-10 1/4"	3'-8 1/4"
14+64	67.407	66.115	63.669	62.947	2'-3 7/8"	3'-1/2"
14+72	66.869	65.577	63.438	62.979	2'-1/8"	2'-5 5/8"
14+80	66.330	65.038	63.072	62.478	1'-10 1/8"	2'-4 5/8"
14+88	65.791	64.499	62.599	61.986	1'-9 1/4"	2'-4 1/4"
14+96	65.252	63.960	62.089	61.485	1'-8 7/8"	2'-5 1/4"
15+04	64.713	63.421	61.593	60.713	1'-8 1/2"	2'-7"
15+12	64.488	63.196	61.098	60.486	1'-11 5/8"	2'-7"
15+20	64.277	62.985	60.778	60.203	2'-1"	2'-7 7/8"
15+28	64.066	62.774	60.501	59.932	2'-1 3/8"	2'-8 5/8"
15+36	63.854	62.562	60.237	59.670	2'-2 3/8"	2'-9 1/4"
15+44	63.643	62.351	59.973	59.405	2'-3"	2'-9 7/8"
15+52	63.432	62.140	59.712	59.048	2'-3 5/8"	2'-11 5/8"
15+60	63.220	61.928	59.652	58.822	2'-1 7/8"	2'-11 1/4"
15+68	62.999	61.717	60.575	59.693	1'-1/4"	1'-10 3/4"
15+76	62.779	61.487	60.409	59.847	0'-11 1/2"	1'-6 1/8"
15+84	62.520	61.228	59.457	59.193	1'-7 3/4"	1'-10 7/8"
15+92	62.261	60.969	58.498	58.218	2'-4 1/8"	2'-7 1/2"
16+00	62.001	60.709	58.129	57.665	2'-5 1/2"	2'-11"

STATION	TOP OF DECK	POST CUTOFF EL.	ELEVATION (FT)		POST LENGTH (FT)	
			EXISTING GROUND		WEST POST	EAST POST
			WEST EG	EAST EG		
16+08	61.742	60.450	58.950	57.938	1'-4 1/2"	2'-4 5/8"
16+16	61.483	60.191	58.678	58.294	1'-4 5/8"	1'-9 1/4"
16+24	61.223	59.931	58.930	58.562	0'-10 1/2"	1'-2 7/8"
16+32	60.964	59.672	59.257	58.855	0'-3 1/2"	0'-8 1/4"
16+40	60.705	59.413	58.607	58.390	0'-8 1/8"	0'-10 3/4"
16+48	60.445	59.153	57.977	57.765	1'-5/8"	1'-3 1/8"
16+56	60.186	58.894	57.356	57.144	1'-5"	1'-7 1/2"
16+64	59.536	58.244	56.761	56.560	1'-4 1/4"	1'-6 3/4"
16+72	58.879	57.587	56.224	55.974	1'-2 7/8"	1'-5 7/8"
16+80	58.222	56.930	55.641	55.486	1'-2"	1'-3 7/8"
16+88	57.565	56.273	55.154	54.986	0'-11 7/8"	1'-1 7/8"
16+96	56.907	55.615	54.737	54.615	0'-9"	0'-10 1/2"
17+04	56.250	54.958	54.251	54.139	0'-7"	0'-8 3/8"
17+12	55.593	54.301	53.789	53.689	0'-4 5/8"	0'-5 7/8"
17+20	54.936	53.644	53.318	53.233	0'-2 3/8"	0'-3 3/8"
17+28	54.279	52.987	53.061	53.090	0'-2 3/8"	0'-2 3/4"
17+33.21	53.582	52.290	52.658	52.972	0'-5 7/8"	0'-9 5/8"

16+51

15+65
14+93
14+45

62.60
65.01
68.17

NOTES:

1. MINIMUM POST HEIGHT 7 1/2", ADJUST FOOTING ELEVATION ACCORDINGLY.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Eng. *[Signature]* Date 7-15-10

PATH:Q:\SEA\69210\ENVP\PORT ALEX-SHEET 6&7- QUANTITIES.DWG

WHITE, JANELLE R (DOT)
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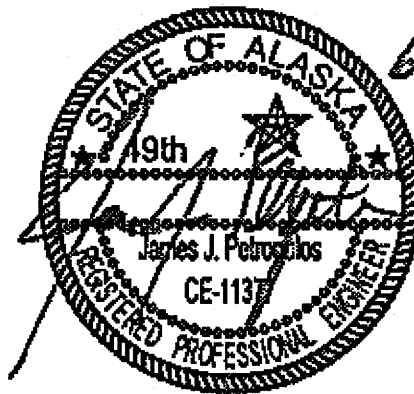
ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PORT ALEXANDER BOARDWALKS
PROJECT NO. 69218

BOARDWALK POST HEIGHT
AND ELEVATIONS

CHECKED BY: J. PETROPULOS



DESIGNED BY: J. WHITE

DRAWN BY: J. WHITE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

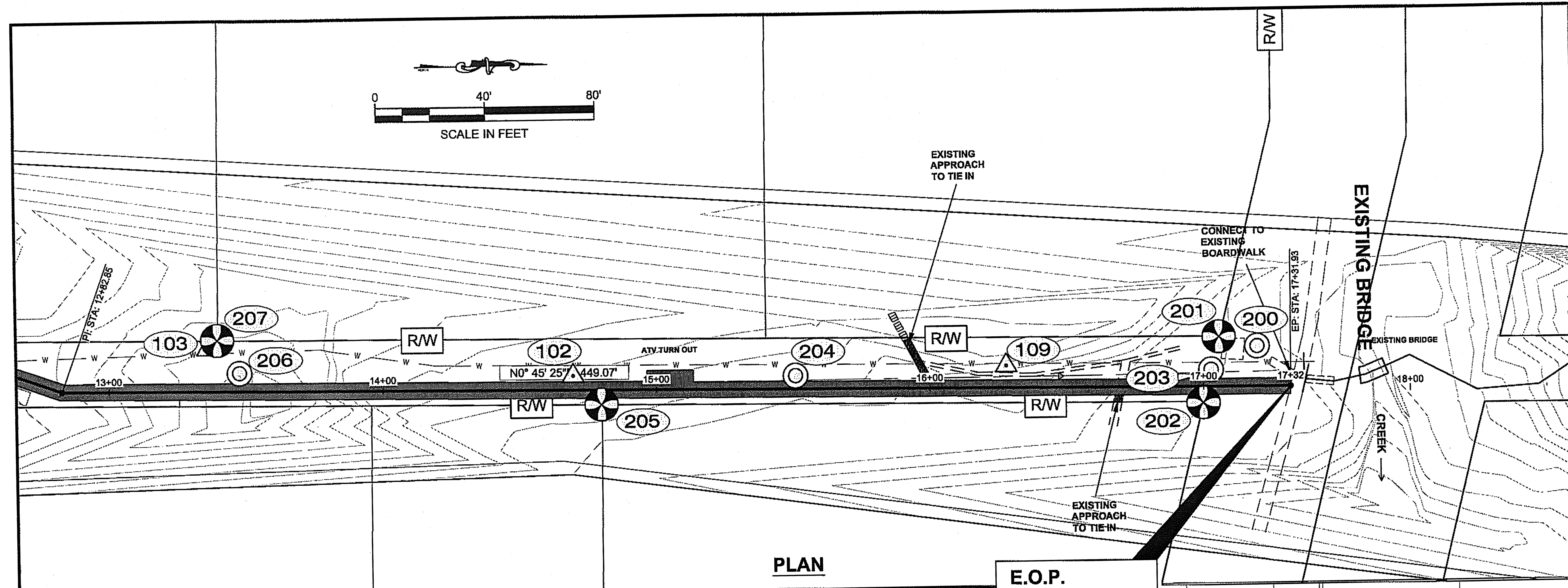
PORT ALEXANDER
BOARDWALKS
PROJECT NO. 69218

QUANTITIES

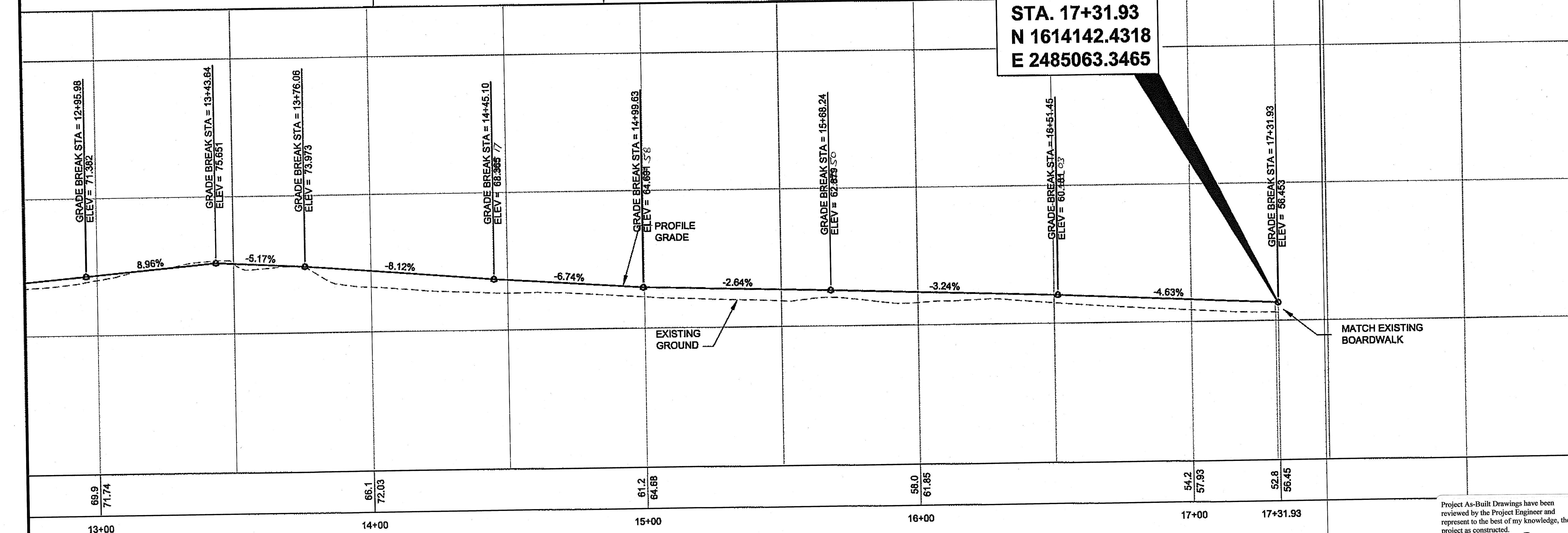
PROJECT DESIGNATION

DC 233-06 & 394-08

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
7	11



PLAN



PROFILE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 Proj. Eng. *[Signature]* Date 7-15-10

PATH: Q:\SEA\6921\PORT ALEX-SHEET
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 WHITE, JANELLE R (DOT)
 TAB: 9 Monday, June 15, 2009 11:55:59 AM
 ADDENDUM NUMBER
 ATTACHMENT NUMBER
 RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PORT ALEXANDER BOARDWALKS
 PROJECT NO. 69218
 PLAN & PROFILE

CHECKED BY: J. PETROPULOS

 DESIGNED BY: J. WHITE
 DRAWN BY: J. WHITE
 STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION
 PORT ALEXANDER
 BOARDWALKS
 PROJECT NO. 69218
 PLAN & PROFILE
 PROJECT DESIGNATION
 DC 233-06 & 394-08

STATE	YEAR
ALASKA	2009

SHEET NUMBER	TOTAL SHEETS
9	11

POINT	NORTH	EAST	ELEV	DESCRIPTION
102	1613880.0705	2485054.7323	63.86	H&PK
103	1613746.7838	2485042.4438	77.52	PK/STUMP
104	1613608.2405	2485049.5472	66.68	REBAR
105	1613643.2460	2484942.8950	66.92	PK_RTK
106	1613556.3208	2485018.8744	54.13	PK
107	1613502.5525	2485054.2878	48.07	PK
108	1613386.2770	2485059.1570	38.59	PK_RTK
109	1614038.4823	2485053.9041	59.91	PK/HUB
200	1614130.3094	2485048.4955	53.45	REBAR
201	1614116.2799	2485044.7664	54.39	BLM_BC1.5" _S2010 _L15 _B4
202	1614110.3100	2485068.9087	57.81	BLM_BC1.5" _S2010 _L2 _B6
203	1614113.2772	2485056.8269	55.50	REBAR
204	1613961.4134	2485056.1720	60.92	REBAR
205	1613890.2727	2485065.3926	60.94	BLM_BC1.5" _S2010 _L1/L2 _B6
206	1613758.3633	2485051.5622	77.85	REBAR
207	1613750.4442	2485039.3471	76.45	BLM_BC1.5" _S2010 _L13/L14 _B6
208	1613419.1710	2485058.8180	42.14	BLM_BC1.5" _L9 _BL4/L16 _RTK

HORIZONTAL ALIGNMENT TABLE

BOP: STA 10+01.00	N 1,613,419.0732	E 2,485,055.5444	FG 41.14
TAN: N2°40'58"W 116.42'	STA 11+16.42	N 1,613,534.3661	E 2,485,050.1421 FG 55.61
TAN: N22°10'35"W 43.61'	STA 11+60.03	N 1,613,574.7535	E 2,485,033.6797 FG 59.51
TAN: N0°07'34"W 52.71'	STA 12+12.75	N 1,613,627.4679	E 2,485,033.5636 FG 64.17
TAN: N19°53'20"E 70.11'	STA 12+82.85	N 1,613,693.3924	E 2,485,057.4135 FG 70.24
TAN: N0°45'25"E 449.07'			
EOP: STA 17+31.93	N 1,614,142.4319	E 2,485,063.3465	FG 56.45

VERTICAL PVI TABLE

PVI STA 10+23.60	N 1,613,441.6484	E 2,485,054.4866	FG 47.28
PVI: STA 10+81.77	N 1,613,499.7547	E 2,485,051.7639	FG 52.51
PVI: STA 11+39.36	N 1,613,555.6097	E 2,485,041.4830	FG 57.67
PVI: STA 11+94.46	N 1,613,609.1803	E 2,485,033.6039	FG 62.58
PVI: STA 12+95.98	N 1,613,706.5176	E 2,485,057.5869	FG 71.38
PVI: STA 13+43.64	N 1,613,754.1734	E 2,485,058.2165	FG 75.65
PVI: STA 13+76.06	N 1,613,786.5906	E 2,485,058.6449	FG 73.97
PVI: STA 14+45.10	N 1,613,855.6246	E 2,485,059.5570	FG 68.37
PVI: STA 14+99.63	N 1,613,910.1498	E 2,485,060.2774	FG 64.69
PVI: STA 15+68.24	N 1,613,978.7538	E 2,485,061.1839	FG 62.88
PVI: STA 16+51.45	N 1,614,061.9566	E 2,485,062.2832	FG 60.18
PVI: STA 17+31.93	N 1,614,142.4318	E 2,485,063.3465	FG 56.45

HORIZONTAL CONTROL

Horizontal Control for this project is NAD83 Alaska State Plane zone-1 US survey feet.
Coordinates for this project established with OPUS processing, Leica Geomatics Office static GPS processing, and Starnet least squares adjustment of GPS and conventional data.

OPUS derived coordinates held on PA-1 are as follows:

PA-1 : 2" red plastic cap on rebar located on the eastern shore of Port Alexander approximately 200' southwest of the northernmost floating dock in Inner Harbor where is attaches to land. *this point does not appear on control diagram.

REF FRAME: NAD_83(CORS96)(EPOCH:2003.0000)
LAT: 56°15'00.04386"N
LON: 134°38'52.33395"W
EL HGT: 2.623(m)

AK83-1f N : 1614248.8680'
AK83-1f E : 2486404.2070'
MLLW ELEVATION : 13.59'

Project Specific Basis of Horizontal Control

108 : PK nail set in the westerly end of existing Cedar Street boardwalk at it's junction with a private boardwalk.
AK83-1f N 1613386.2770' E: 2485059.1570'
LAT : 56°14'51.3546"N LON : 134°39'15.9207"W
107 : PK nail set in existing Cedar Street boardwalk approximately 116' east of 108.
AK83-1f N: 1613502.5525' E: 2485054.2878'
LAT: 56°14'52.4997"N LON: 134°39'16.0364"W

VERTICAL CONTROL

The Vertical Datum for Port Alexander is roughly based on Mean Lower Low Water via a single tide shot on 6/20/08 compared to predicted tide levels. Elevation was transferred to the boardwalk site with RTK GPS and GEOID '99 Modeled Orthometric Heights. For this project, #108 should be held for vertical as 38.59'.

CONTROL MONUMENT NOTE:

If any pair of control points disagrees from published value by more than 1:10,000 horizontally or vertically then a third network point must be tied to ascertain which point is in error or has been disturbed.

Whether listed or not, all monuments or property markers or accessories which will be disturbed or buried shall be referenced prior to being disturbed and re-established in their original position and a record of monument form in accordance with A.S.34.65.040 shall be submitted to the construction engineer for review prior to recording. Coordinate values listed are for informational purposes and should be used to reset monuments only as a last resort.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Eng. *[Signature]* Date 7-15-10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:Q:\SEA\6921\EN\PIPORT ALEX-SHEET 889810- PLAN&PROFILE.DWG
WHITE, JANELLE R (DOT)
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ADDENDUM NUMBER
ATTACHMENT NUMBER
RECORD OF REVISIONS
No. DATE DESCRIPTION
PORT ALEXANDER BOARDWALKS
PROJECT NO. 69218
SURVEY CONTROL SHEET

CHECKED BY: J. PETROPULOS

DESIGNED BY: J. WHITE
DRAWN BY: J. WHITE
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION
PORT ALEXANDER
BOARDWALKS
PROJECT NO. 69218
PLAN & PROFILE
PROJECT DESIGNATION
DC 233-06 & 394-08
STATE YEAR
ALASKA 2009
SHEET NUMBER TOTAL SHEETS
10 11

WHITE, JANELLE R (DOT)

TAB: 11 Thursday, June 04, 2009 11:37:04 A

ADDENDUM NUMBER

ATTACHMENT NUMBER

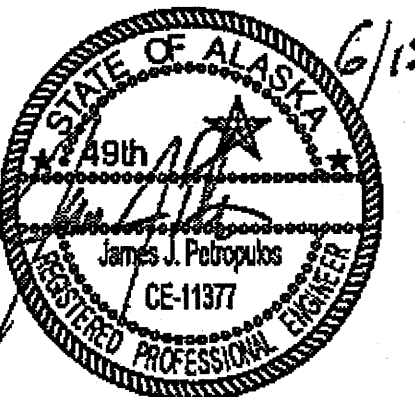
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PORT ALEXANDER BOARDWALKS
PROJECT NO. 69218

TRAFFIC CONTROL PLAN

CHECKED BY: J. PETROPULOS



DESIGNED BY: J. WHITE

DRAWN BY: J. WHITE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

PORT ALEXANDER
BOARDWALKS
PROJECT NO. 69218

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION

DC 233-06 & 394-08

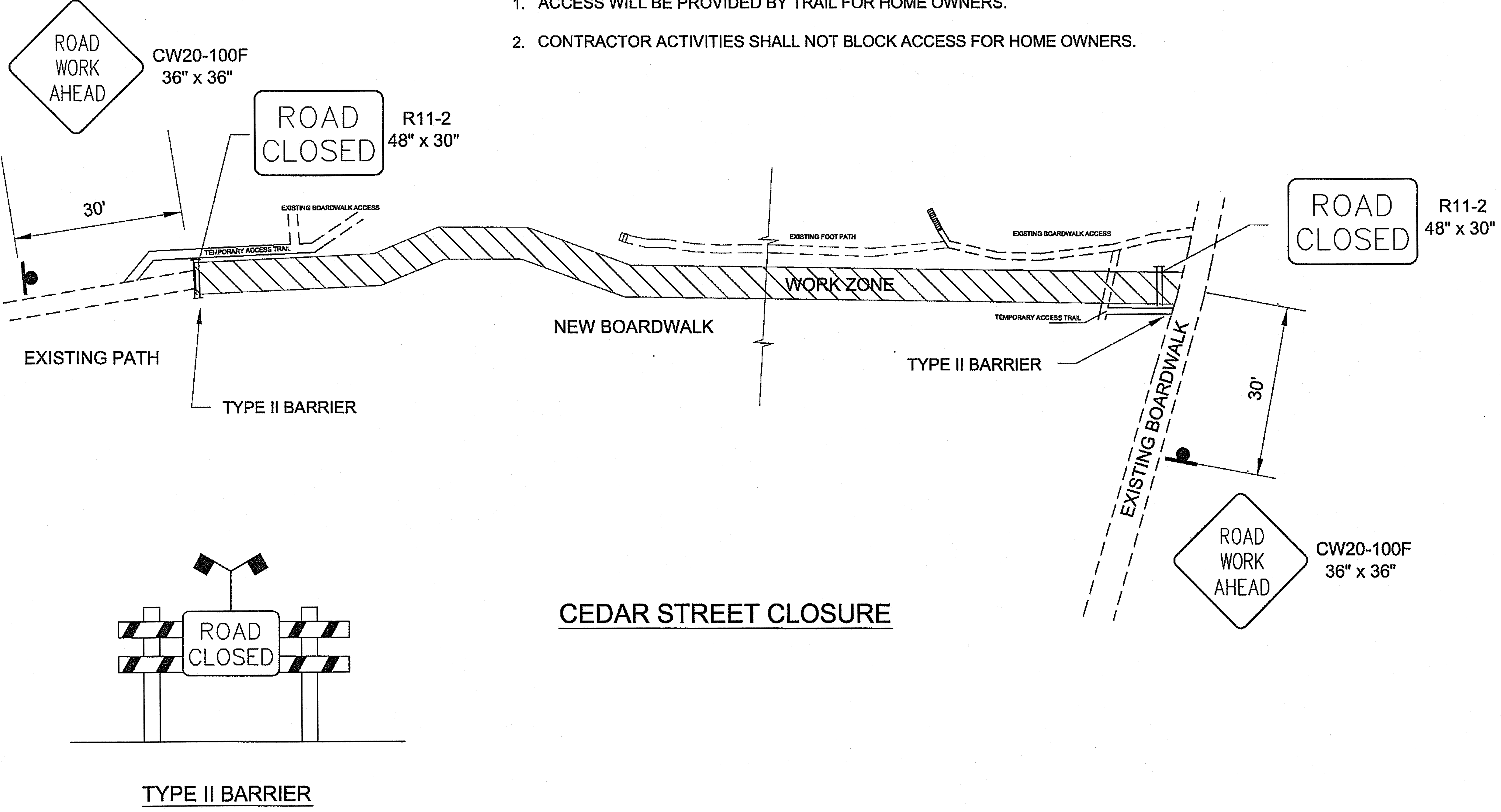
STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
11	14

Project As-Built Drawings have been
reviewed by the Project Engineer and
represent to the best of my knowledge, the
project as constructed.
Proj. Eng. *[Signature]* Date 7-15-10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CONSTRUCTION NOTES:

1. ACCESS WILL BE PROVIDED BY TRAIL FOR HOME OWNERS.
2. CONTRACTOR ACTIVITIES SHALL NOT BLOCK ACCESS FOR HOME OWNERS.



CEDAR STREET CLOSURE