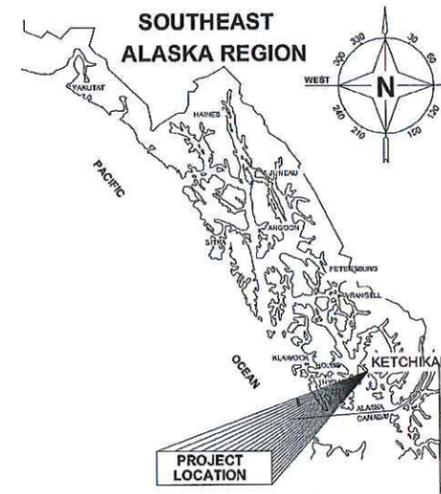


State of Alaska

Department of Transportation and Public Facilities

Design and Engineering Services Division-Southeast Region



Ketchikan: Waterfront Promenade Phase III

AS-BUILT PLANS
CONTRACTOR: SECON, INC.
PROJECT ENGINEER: DANIELLE RYDER
START DATE: MAY 10, 2012
END DATE: July 7, 2013

PROJECT No. 68162
FEDERAL No. STP-0902(037)

PROJECT SCOPE:

CONSTRUCT A NEW PEDESTRIAN PROMENADE IN THOMAS BASIN ADJACENT TO THE EXISTING STEDMAN STREET SIDEWALK TO IMPROVE PEDESTRIAN CAPACITY.



LOCATION MAP
(EXISTING CONDITIONS)

PROJECT SUMMARY

B.O.P. STA 0+25.00
 E.O.P. STA 5+11.51
 CDS ROUTE NO. 291400
 CDS MILEPOINT 2.353
 LENGTH OF PROJECT = 490'
 DESIGN SPEED 25 MPH

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

- A-01.01
- C-03.10
- M-13.01
- M-16.01

PROJECT INDEX

| SHEET NO. | DESCRIPTION |
|-----------|--|
| A1 | COVER SHEET AND DETAILS |
| A2 | SURVEY AND PROJECT CONTROL |
| B1 | DEMOLITION SECTIONS |
| B2 | TYPICAL SECTIONS |
| C1 | ESTIMATE OF QUANTITIES |
| F1 | CLOSURE AND SECURITY PLAN AND NOTES |
| F2 | DEMOLITION PLAN |
| F3 | GENERAL ARRANGEMENT PLAN |
| F4 | PILE AND CAP PLAN |
| F5 | FRAMING PLAN |
| H1 | EROSION AND SEDIMENT CONTROL PLAN |
| H2 | EROSION AND SEDIMENT CONTROL DETAILS |
| J1 | DETAILS |
| J2 | PILE AND CAP DETAILS |
| J3 | CAP DETAILS |
| J4 | DECKING AND HANDRAIL DETAILS |
| J5 | SIDEWALK DETAILS |
| J6 | NORTH RETAINING WALL PLAN AND ELEVATION |
| J7 | GLULAM SPLICE DETAILS |
| J8 | RETAINING WALL SECTION D DETAILS SHEET 1 |
| J9 | RETAINING WALL SECTION D DETAILS SHEET 2 |
| P1 | RAILING PLAN |
| S1 | LANE CLOSURE DETAILS |
| U1 | ELECTRICAL SITE PLAN |
| U2 | ELECTRICAL ONE LINE DIAGRAM |
| U3 | ELECTRICAL SPECIFICATIONS |
| F6 | GENERAL UTILITY ARRANGEMENT PLAN |

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
 PE: DR DATE: 7/21/13

PATH: K:\2012\24053.01 - KETCHIKAN WATERFRONT PROMENADE PHASE III\FIC\REV5\24053.01-A1.DWG
 TAB: A1
 Tuesday, April 22, 2014 12:52:47 PM
 PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION



RECOMMENDED FOR APPROVAL:

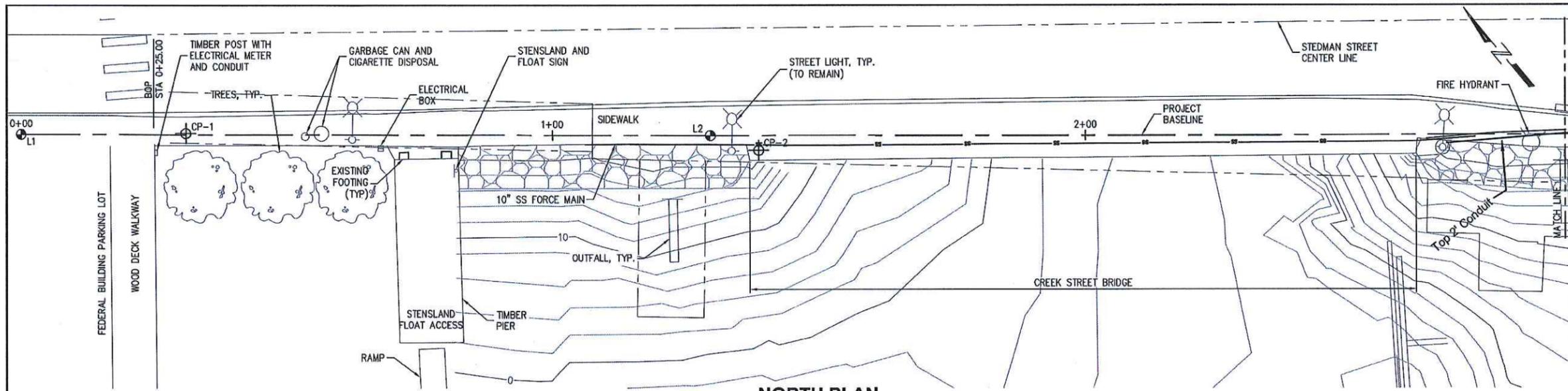
CHUCK CORREA, PE REGIONAL PRE-CONSTRUCTION ENGINEER DATE
 APPROVED:

ALBERT H. CLOUGH, CPG SOUTHEAST REGION DIRECTOR DATE

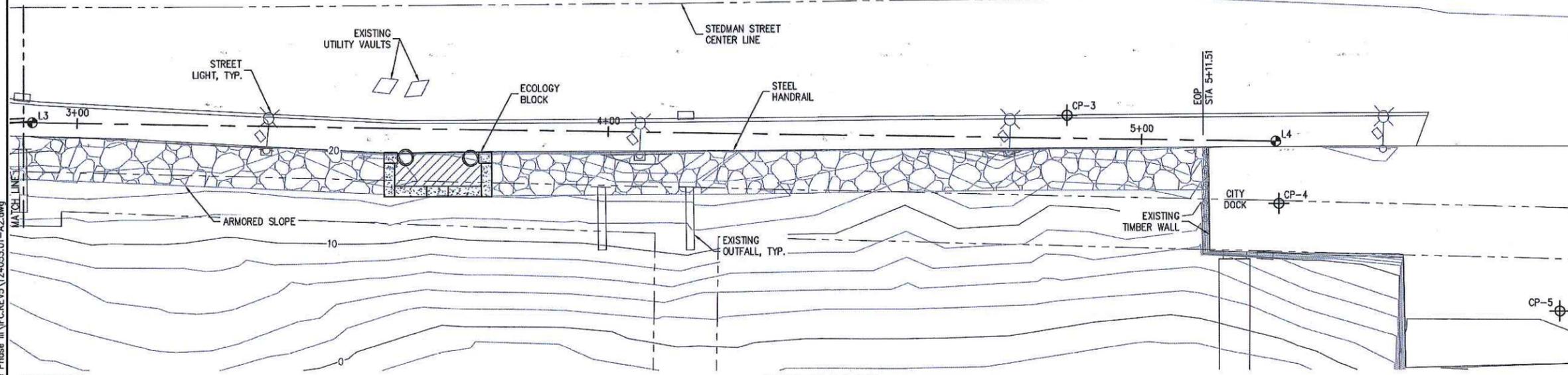
CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

| STATE | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|--------|---------------------|------|-----------|--------------|
| ALASKA | STP-0902(037) | 2013 | A1 | 22 |



NORTH PLAN
0 5 10 20 30 FT.



SOUTH PLAN
0 5 10 20 30 FT.

4/22/14 Drawings 2012\124053.01 - Ketchikan Waterfront Promenade Phase III\FC\REV\124053.01-A2.dwg

SURVEY NOTES

1. VERTICAL DATUM IS MEAN LOWER LOW WATER (MLLW).
2. BASIS OF VERTICAL DATUM FOR THIS SURVEY IS BASED ON THE USACOE MONUMENTS "DP-3 1976" ELEVATION 21.79' AND "TB-4 2001" ELEVATION 21.77', LOCATED ALONG STEDMAN STREET. FOR ADDITIONAL INFORMATION SEE THE USACOE CONDITION SURVEY FOR THOMAS BASIN HARBOR DATED JULY 7-14, 2012.
3. BASIS OF BEARING AND COORDINATES ARE NAD 83, ALASKA STATE PLANE ZONE 1 IN US SURVEY FEET, HOLDING USACOE MONUMENTS "DP-3 1976" AND "TB-4 2001". THE BEARING BETWEEN "DP-3" AND "TB-4" MONUMENTS IS N50°57'15"W. FOR ADDITIONAL INFORMATION SEE THE CONDITION SURVEY FOR THOMAS BASIN HARBOR (SEE NOTE 2).
4. NO UNDERGROUND UTILITIES WERE LOCATED DURING THIS SURVEY.
5. CONTOURS ARE IN FEET, WITH ONE FOOT INTERVALS.
6. FIELD SURVEY PERFORMED JULY 20 & 21, 2013.

PROJECT CONTROL TABLE

| NAME | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|------|------------|------------|-----------|--------------|
| CP-1 | 1287199.68 | 3107385.17 | 21.51 | MONUMENT |
| CP-2 | 1287128.46 | 3107465.89 | 21.77 | MONUMENT |
| CP-3 | 1286909.68 | 3107735.62 | 21.79 | MONUMENT |
| CP-4 | 1286871.60 | 3107755.69 | 21.13 | BENCHMARK |
| CP-5 | 1286822.47 | 3107783.36 | 19.91 | BENCHMARK |
| L1 | 1287219.15 | 3107361.17 | - | LAYOUT POINT |
| L2 | 1287136.44 | 3107460.61 | - | LAYOUT POINT |
| L3 | 1287032.89 | 3107585.37 | - | LAYOUT POINT |
| L4 | 1286880.88 | 3107762.65 | - | LAYOUT POINT |

LEGEND

| | | | |
|--|--------------------------------|--|----------------------|
| | ARMORED SLOPE | | LAYOUT CONTROL POINT |
| | TREE | | EXISTING MONUMENT |
| | TIMBER PILE | | PROPERTY LINE |
| | ELECTRICAL VENT | | |
| | INLET BOX | | |
| | ECOLOGY BLOCK ELECTRICAL VAULT | | |
| | FIRE HYDRANT | | |
| | UTILITY VAULT | | |
| | STREET LIGHT | | |

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |

DESIGNED BY: SR

FOR REFERENCE ONLY

CHECKED BY: RZ
DRAWN BY: GRD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION/SOUTHEAST REGION

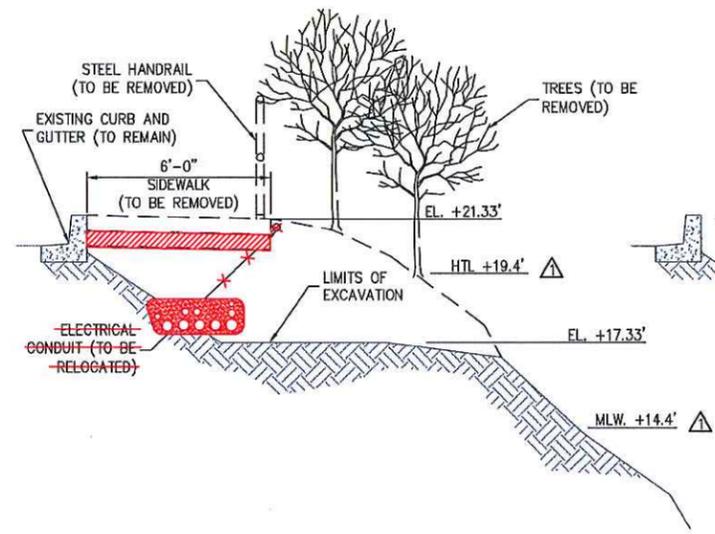
**KETCHIKAN:
WATER STREET
SIDEWALK
IMPROVEMENTS
PROJECT No. 68162**

**SURVEY AND
PROJECT
CONTROL**

PROJECT DESIGNATION
STP-0902(037)

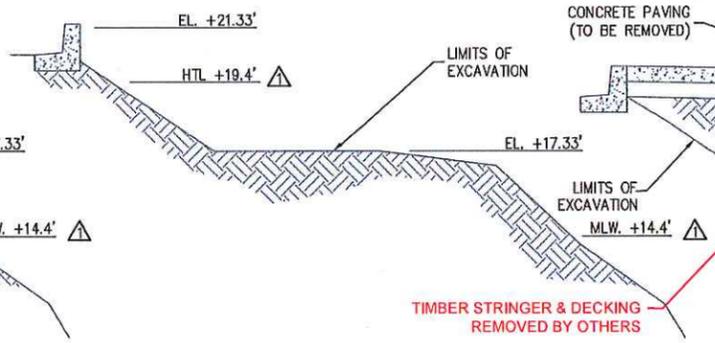
| | |
|---------------|--------------|
| STATE | YEAR |
| ALASKA | 2013 |
| SHEET NUMBER | TOTAL SHEETS |
| A2 | 23 |

4/22/14 Drawings 2012\24053.01 - Ketchikan Waterfront Promenade Phase III\FC.REV\124053.01-B1.dwg

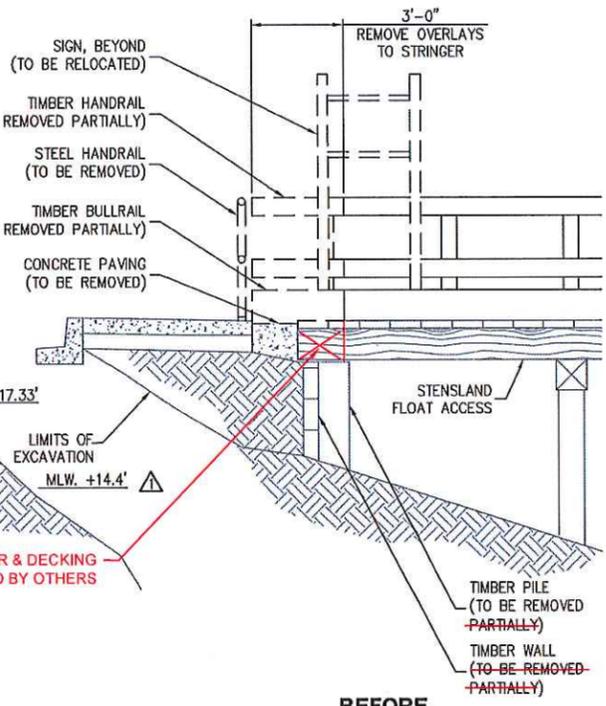


BEFORE

DEMOLITION TYPE A



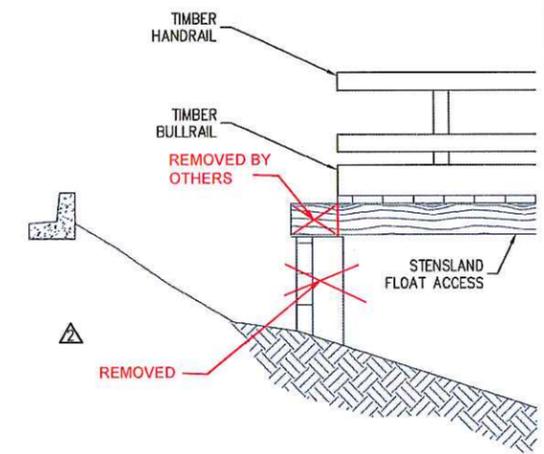
AFTER



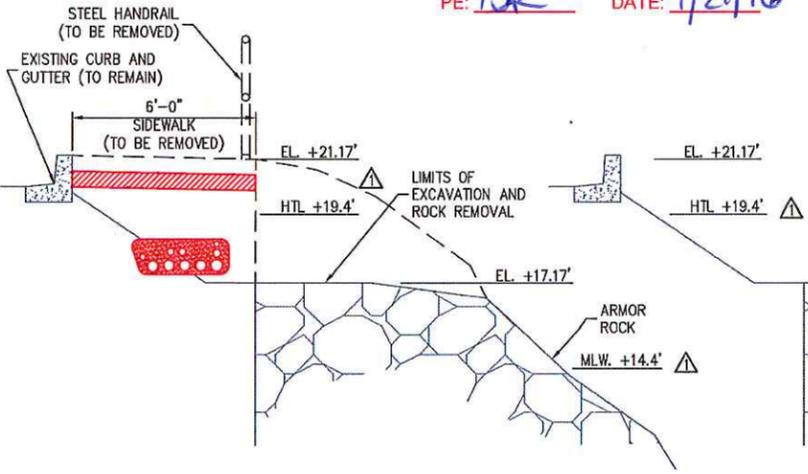
BEFORE

DEMOLITION TYPE B

FOR THIS DETAIL "OVERLAYS" REFERS TO ANY PAVEMENT AND EXISTING DECK BOARDS.

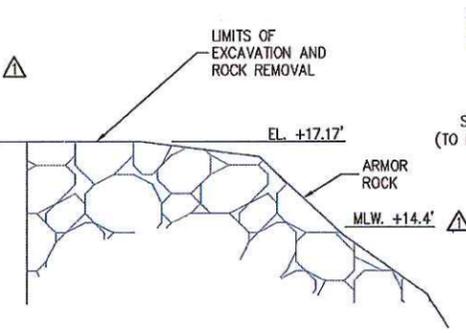


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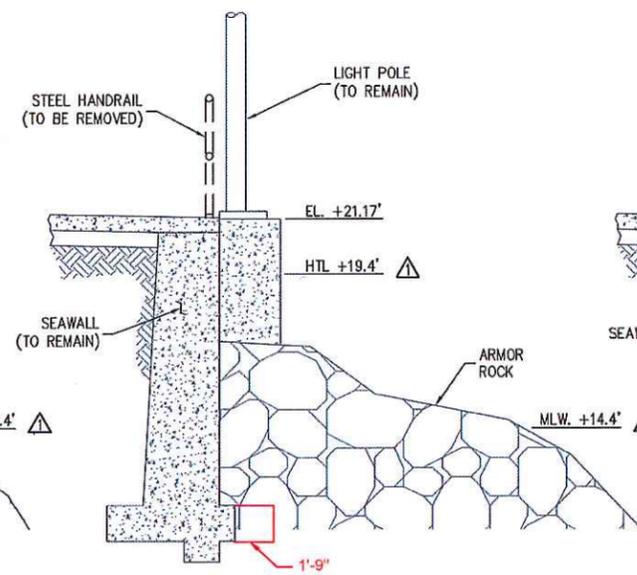


BEFORE

DEMOLITION TYPE C

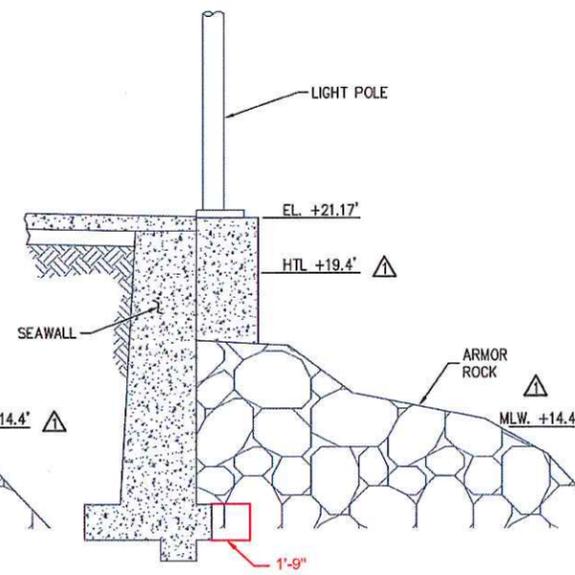


AFTER



BEFORE

DEMOLITION TYPE D



AFTER

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: DR DATE: 1/21/16

NOTE: SALVAGED STEEL HANDRAIL TO BECOME PROPERTY OF THE CITY.

| REVISIONS | DESCRIPTION |
|-----------|-------------------------|
| 2 | RETAINING WALL REDESIGN |
| 1 | ADD BID AGENDA TO PLANS |
| 1 | REV |
| | DATE |

DESIGNED BY: SR

CHECKED BY: RZ
DRAWN BY: GRD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

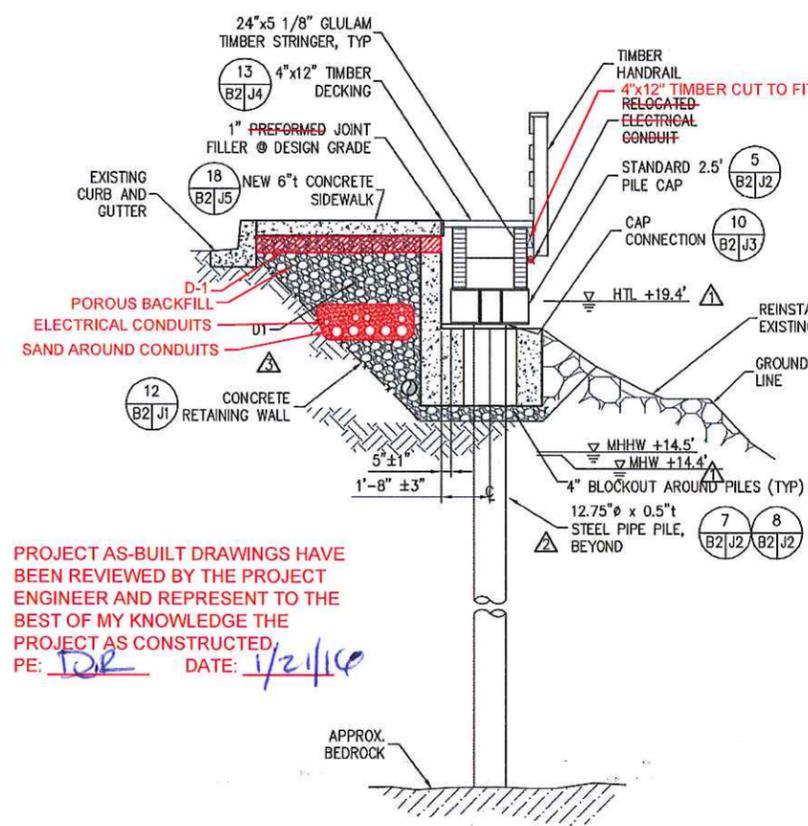
KETCHIKAN: WATER STREET SIDEWALK IMPROVEMENTS PROJECT No. 68162

DEMOLITION SECTIONS

PROJECT DESIGNATION
STP-0902(037)

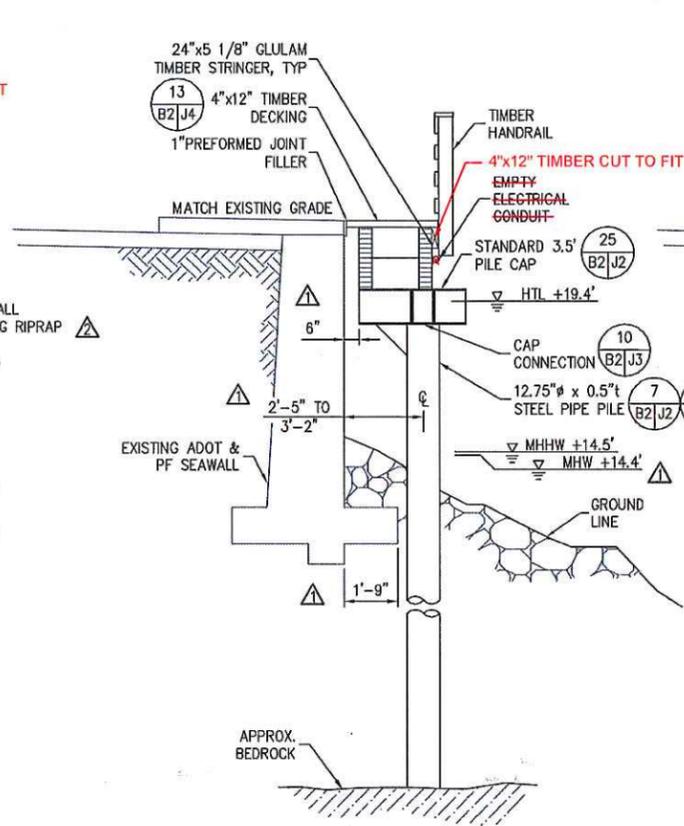
| | |
|---------------|--------------|
| STATE | YEAR |
| ALASKA | 2013 |
| SHEET NUMBER | TOTAL SHEETS |
| B1 | 23 |

4/22/14 Drawings 2012\124053.01 - Ketchikan Waterfront Promenade Phase III IFC REV 5\124053.01-B2.dwg

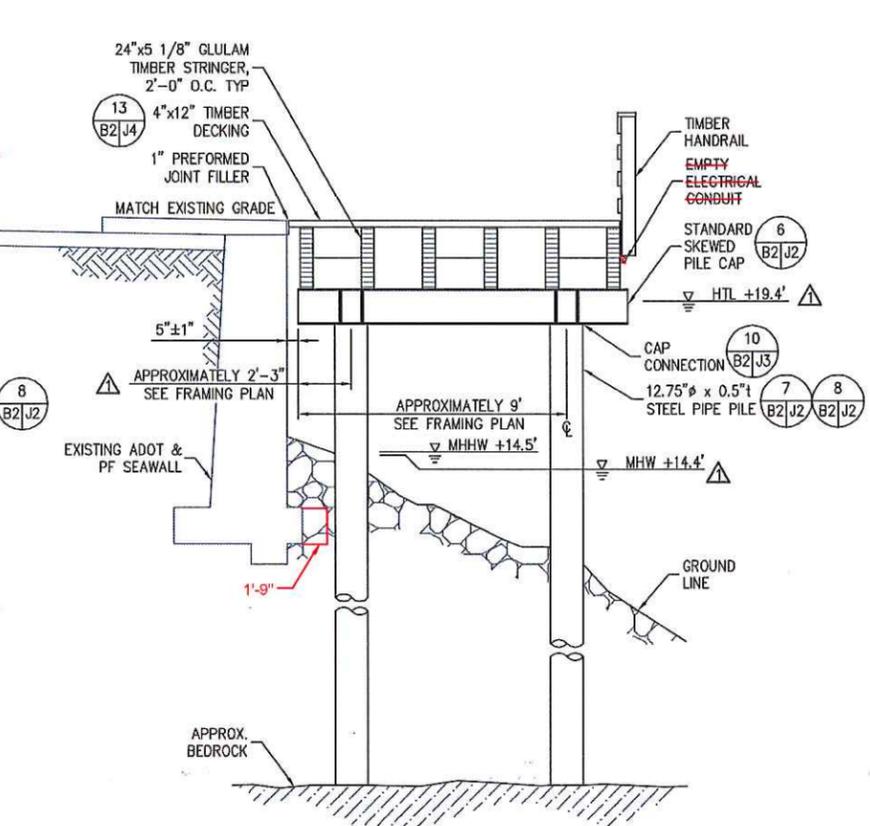


TYPICAL SECTION TYPE A

BEGINNING AND END OF THE RETAINING WALL ARE DEFINED BY POINTS PT2 AND PT6 ON SHEET F3.



TYPICAL SECTION TYPE B



TYPICAL SECTION TYPE C

NOTE:
ELEVATIONS OF CAPS, CUTOFFS, AND TOP OF RETAINING WALL ARE DEFINED BY THESE TYPICAL SECTIONS, WHICH ARE BASED OFF OF EXISTING FEATURES. SUBMIT FIELD VERIFICATION OF SURVEY ELEVATIONS TO ENGINEER FOR REVIEW.

| DESCRIPTION | START STATION | END STATION |
|-------------|---------------|-------------|
| TRANSITION | 0+25.00 | 0+28.13 |
| TYPE A | 0+28.13 | 0+70.10 |
| DETAIL 1 | 0+70.10 | 0+82.21 |
| TYPE A | 0+82.21 | 1+00.00 |
| TYPE D | 98+50.00 | 1+29.37 |
| TRANSITION | 1+29.37 | 1+32.73 |
| NIC | 1+32.73 | 2+67.79 |
| DETAIL 24 | 2+67.79 | 2+70.71 |
| TYPE A | 2+70.71 | 2+89.37 |
| TRANSITION | 2+89.37 | 2+97.44 |
| TYPE C | 2+97.44 | 3+21.48 |
| TRANSITION | 3+21.48 | 3+29.26 |
| TYPE B | 3+29.26 | 3+57.72 |
| NIC | 3+57.70 | 3+78.13 |
| TYPE B | 3+78.13 | 4+13.22 |
| TRANSITION | 4+13.22 | 4+20.60 |
| TYPE C | 4+20.60 | 4+47.90 |
| TRANSITION | 4+47.90 | 4+55.23 |
| TYPE B | 4+55.23 | 5+09.73 |

- SEQUENCE:**
1. CONSTRUCT NEW CONCRETE RETAINING WALL AND FOOTING (STA 0+98.5 TO 1+30.5)
 2. TEMPORARY FORMS AND CONTROL DENSITY FILL UNDER EXISTING CONDITIONS.
 3. FILL AND COMPACT LIFT 1 AND 2.
 4. INSTALL GLULAM GIRDERS AND BLOCKING
 5. INSTALL STEEL PLATE.
 6. BACKFILL REMAINING WITH D1 AND COMPACT PER SPECIFICATIONS.
 7. CAST CONCRETE SLAB.
 8. PLACE ARMOR ROCK ANYTIME AFTER STEP 3.

- CONTROLLED DENSITY FILL (CDF):**
CDF SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
1. PORTLAND CEMENT: TYPE I-II ASSHTO M85.
 2. MINERAL FILLER ADMIXTURES: POZZOLANS OR FLY ASH (ASTM C-618, CLASS F).
 3. AGGREGATE: WASHED COARSE SAND NO. 2.

CDF SHALL BE USED IN THE FOLLOWING PROPORTIONS FOR 1 CUBIC YARD. BATCH WEIGHTS MAY VARY DEPENDING ON SPECIFIC WEIGHTS OF AGGREGATES.

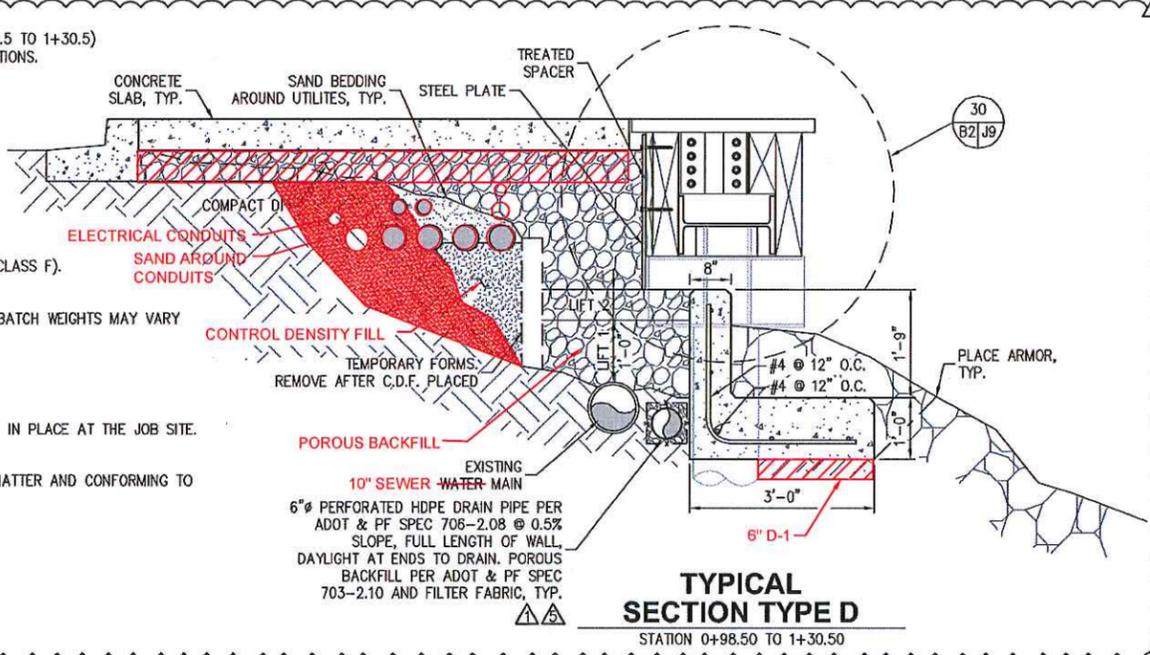
- PORTLAND CEMENT 50 LBS/YD³
- FLY ASH 250 LBS/YD³
- WASHED COARSE SAND (SSD) 3,200 LBS/YD³
- WATER 50 GALS/YD³ (MAX)

ADD SUFFICIENT WATER TO PROVIDE A 6 INCH TO 8 INCH SLUMP DELIVERED IN PLACE AT THE JOB SITE.

WASHED COARSE SAND:
WASHED COARSE SAND SHALL BE A CLEAN MIXTURE FREE FROM ORGANIC MATTER AND CONFORMING TO THE FOLLOWING GRADATION:

| SIEVE SIZE BY WEIGHT | PERCENT PASSING BY WEIGHT |
|----------------------|---------------------------|
| 1/2 INCH | 100 |
| #4 | 65-100 |
| #50 | 0-10 |
| #200 | 0-3 |

ALL PERCENTAGES ARE BY WEIGHT



TYPICAL SECTION TYPE D

STATION 0+98.50 TO 1+30.50

| REVISIONS | DATE | DESCRIPTION |
|-----------|------|--------------------------|
| 5 | 3/14 | SECTION D RETAINING WALL |
| 3 | 3/14 | RETAINING WALL REDESIGN |
| 2 | 2/14 | RETAINING WALL REDESIGN |
| 1 | 2/14 | ADD BID AGENDA TO PLANS |
| REV | | |

DESIGNED BY: SR

CHECKED BY: RZ

DRAWN BY: GRD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

KETCHIKAN: WATER STREET SIDEWALK IMPROVEMENTS PROJECT No. 68162

TYPICAL SECTIONS

PROJECT DESIGNATION
STP-0902(037)

| STATE | YEAR |
|--------|------|
| ALASKA | 2013 |

| SHEET NUMBER | TOTAL SHEETS |
|--------------|--------------|
| B2 | 23 |



| ESTIMATE OF QUANTITIES | | | |
|------------------------|--|----------------|------------------------------|
| Item No. | Description | Units | Quantity |
| 201(3A) | Clearing and Grubbing | Acre | 0.1 |
| 202(1) | Removal of Structures and Obstructions | Lump Sum | All-Required 1 |
| 202(3) | Removal of Sidewalk | Square Yard | TBR 107.62 |
| 203(3) | Unclassified Excavation (Delete by CO) | Cubic Yard | TBR 0 |
| 501(4) | Class A Concrete (Delete by CO) | Cubic Yard | TBR 0 |
| 504(3) | Standard 2.5 foot Pile Cap | Each | 4 |
| 504(4) | Standard Skewed Pile Cap | Each | 4.0 |
| 505(1) | Drill Steel Pile | Each | 4.0 0 |
| 505(2) | Furnish Structural Steel Piles | Linear Foot | 840.0 835 |
| 505(3) | Drive Structural Steel Piles | Each | 16.0 20 |
| 506(5) | Treated Timber (Stringers) (Delete by CO) | MBM | 1.1 0 |
| 506(6) | Treated Timber (Planks) (Delete by CO) | MBM | 0.4 0 |
| 507(5) | Timber Bridge Railing | Linear Foot | 350.0 398.70 |
| 606(6) | Removing and Disposing of Guardrail | Linear Foot | 350.0 366.50 |
| 608(1b) | Concrete Sidewalk, 6 inches thick | Square yard | TBR 111.18 |
| 608(5) | Bed Course Material, Grading (Delete by CO) | Cubic Yard | TBR 0 |
| 630(1) | Geotextile, Separation | Square yard | TBR 0 |
| 633(2) | Sediment Barrier | Linear Foot | 150.0 515 |
| 640(1) | Mobilization and Demobilization | Lump Sum | All-Required 1 |
| 641(1) | Temp. Erosion, Sediment and Pollution Control Administration | Lump Sum | All-Required 1 |
| 641(3) | Temporary Erosion, Sediment and Pollution Control | Lump Sum | All-Required 1 |
| 641(4) | Temporary Erosion, Sediment and Pollution Control Additives | Contingent Sum | All-Required 0 |
| 641(5) | Temporary Erosion, Sediment and Pollution Control by Directive | Contingent Sum | All-Required 0.03 |
| 641(6) | Withholding | Contingent Sum | All-Required 0 |
| 642(1) | Construction Surveying | Lump Sum | All-Required 1 |
| 642(8) | Adjust Existing Monument | Each | 1.0 |
| 643(2) | Traffic Maintenance | Lump Sum | All-Required 1 |
| 643(15) | Flagging | Contingent Sum | All-Required 0 |
| 643(23) | Traffic Price Adjustment | Contingent Sum | All-Required 0 |
| 643(25) | Traffic Control | Contingent Sum | All-Required 1.39 |
| 644(6) | Vehicles (Deleted by Change Order) | Lump Sum | All-Required 0 |
| 660(14) | (Delete by CO) Electrical conduit relocation design and installation | Lump Sum | All-Required 0 |
| 690(1) | Inlet Protection | each | 2.0 3 |
| 640(4) | Workers Meals and Lodging, or Per Diem | Lump Sum | 1 |

| | | | |
|---------|--|-------------|----------|
| 203(19) | Locate Discharge Line (CO#7) | Lump Sum | 1 |
| 203(20) | Special Excavation (CO#8) | Lump Sum | 1 |
| 501(9) | Concrete Retaining Wall (CO#5) | Lump Sum | 1 |
| 501(10) | Timber and Concrete Retaining Wall (CO#6) | Lump Sum | 1 |
| 504(5) | Standard 3.5 Foot Pile Cap (CO#4) | Each | 8 |
| 506(5) | Treated Timber (Stringers) (CO#2) | Linear Foot | 903.79 |
| 506(6) | Treated Timber (Planks) (CO#2) | Linear Foot | 1,944.10 |
| 507(6) | Additional Timber Railing (CO#7) | Lump Sum | 1 |
| 642(3) | Three Person Party Survey (CO#3) | Hour | 7.36 |
| 644(6a) | Vehicles (CO#9) | Lump Sum | 1 |
| 660(15) | Electrical Conduit Design and Install (CO#1) | Lump Sum | 1 |

| PILE SCHEDULE | | | | | | | |
|---------------|-----|---------------|----------------|-----------|---------------|------------------|----------------|
| Bent | Row | Pile Diameter | Wall thickness | Pile Tip | Supply Length | Installed Length | Pipe Tip Elev. |
| 1 | A | 12 | 0.5 | Open Shoe | 40 | 25.3 | -7.1 |
| 2 | A | 12 | 0.5 | Open Shoe | 40 | 28.7 | -10.6 |
| 3 | A | 12 | 0.5 | Open Shoe | 40 | 27.8 | -9.8 |
| 4 | A | 12 | 0.5 | Open Shoe | 40 | 35.7 | -17.6 |
| 5 | A | 12 | 0.5 | Open Shoe | 40 | 33.2 | -15.1 |
| 6 | A | 12 | 0.5 | Open Shoe | 40 | 35.7 | -17.6 |
| 6 | B | 12 | 0.5 | Open Shoe | 50 | 39.2 | -21.1 |
| 7 | A | 12 | 0.5 | Open Shoe | 40 | 33.4 | -15.3 |
| 7 | B | 12 | 0.5 | Open Shoe | 50 | 36.7 | -18.6 |
| 8 | A | 12 | 0.5 | Open Shoe | 40 | 36.5 | -18.4 |
| 9 | A | 12 | 0.5 | Open Shoe | 40 | 33.2 | -15.1 |
| 10 | A | 12 | 0.5 | Open Shoe | 40 | 36.8 | -18.6 |
| 11 | A | 12 | 0.5 | Open Shoe | 40 | 36.3 | -18.1 |
| 12 | A | 12 | 0.5 | Open Shoe | 40 | 36.7 | -18.5 |
| 12 | B | 12 | 0.5 | Open Shoe | 50 | 36.7 | -14.7 |
| 13 | A | 12 | 0.5 | Open Shoe | 40 | 33 | -14.9 |
| 13 | B | 12 | 0.5 | Open Shoe | 50 | 33.3 | -14.2 |
| 14 | A | 12 | 0.5 | Open Shoe | 40 | 35.8 | -17.5 |
| 15 | A | 12 | 0.5 | Open Shoe | 40 | 32.5 | -14.2 |
| 16 | A | 12 | 0.5 | Open Shoe | 40 | 32.6 | -14.2 |

| REV | DATE | DESCRIPTION |
|-----|------|--------------------------|
| 2 | 3/14 | RETAINING WALL REDESIGN |
| 1 | 1/14 | ADD BID ADDENDA TO PLANS |

DESIGNED BY: SR

FOR REFERENCE ONLY

CHECKED BY: RZ

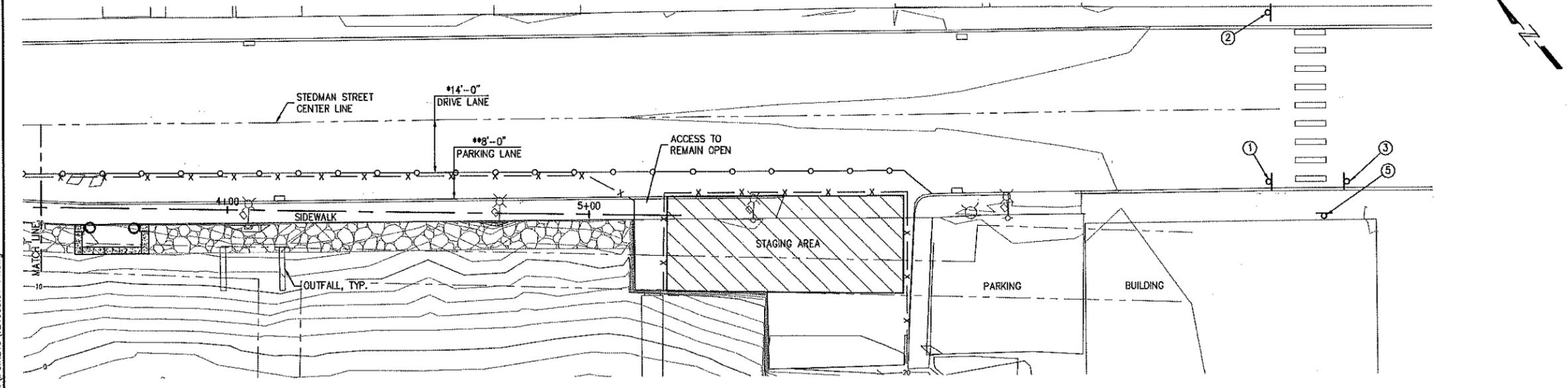
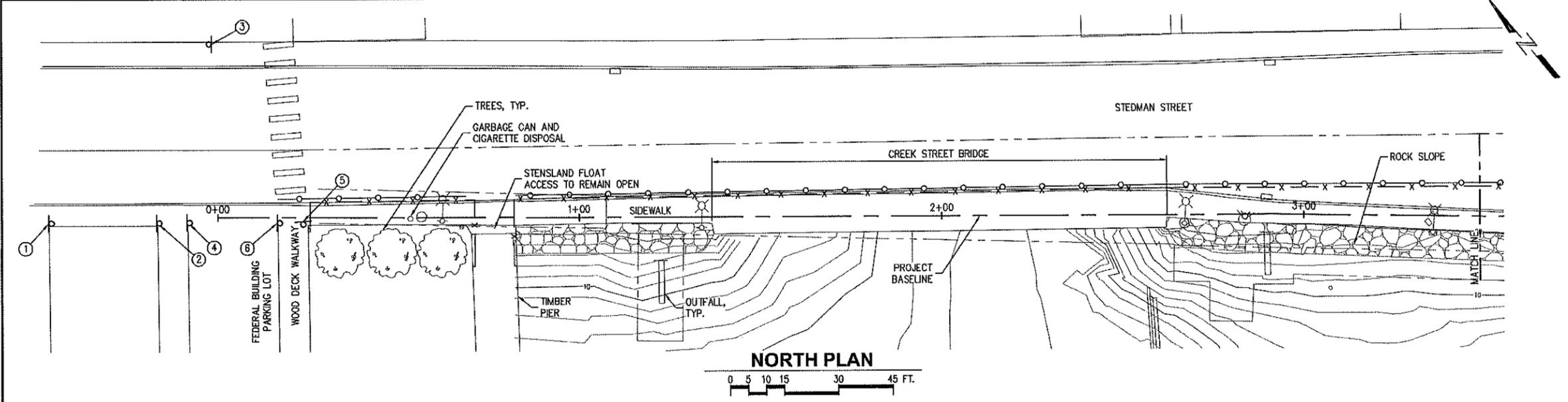
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

**KETCHIKAN:
WATER STREET
SIDEWALK
IMPROVEMENTS
PROJECT No. 68162**

| PROJECT DESIGNATION | |
|---------------------|--------------|
| STP-0902(037) | |
| STATE | YEAR |
| ALASKA | 2013 |
| SHEET NUMBER | TOTAL SHEETS |
| C1 | 23 |

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: DR DATE: 1/24/16



STAGING AND SECURITY NOTES

GENERAL
Construction access and staging areas shall be protected by the Contractor against any damage from the construction activities. Any damage to these areas incurred during construction shall be repaired and restored to its original condition. Such repair and restoration shall be done by the Contractor at no cost to the Owner and be subject to approval by the Engineer.

FENCING
The Contractor shall be responsible for fencing the site to prevent public entry into the site, staging areas and Contractor's own security. Fencing shall be installed throughout entire construction sequence.

SIGNS
Construction signs and barricades shall be placed as required preventing public entry into the site.

IN WATER WORK
In water construction shall comply with the provided corps permit and environmental document. Submit schedule and construction sequence and erosion and sediment control plan to Engineer.

STAGING
The staging area shown may be used as well as the Shamrock's parking lot.

EXISTING STRUCTURE
Contractor shall be responsible for load limits.

Contractor shall be responsible for determining capacity of the permanent structures and structures to be removed at each area. Heavier construction equipment and stockpiled material may be supported on cribbing, which transfers load directly to the pile caps in each area in excess of rated capacity. A detailed plan on the method of application and limits of such loading shall be prepared and stamped by a registered engineer, licensed in the state of Alaska, retained by the Contractor. This plan shall be submitted to the Engineer for review at least four weeks in advance of intended use. Any damage to permanent structures resulting from Contractor use shall be repaired to the satisfaction of the Engineer at no cost to the Owner.

SOUTH PLAN
0 5 10 15 30 45 FT.

* IF WORK IN DRIVE LANE IS NECESSARY, COMPLY WITH ALASKA DOT & PF LANE CLOSURE PERMIT PER SPECIAL PROVISIONS.
** PARKING LANE MAY BE CLOSED AND USED FOR ADJACENT CONSTRUCTION. REOPEN SEGMENTS ADJACENT TO FINISHED WORK.

| TRAFFIC CONTROL SIGNAGE TABLE | | | |
|-------------------------------|--------------------------------|------------|---------------------|
| SIGN NUMBER | DESCRIPTION | SIGN CODE | DIMENSIONS (INCHES) |
| 1 | SIDEWALK CLOSED CROSS HERE | R9-11 | 24x12 |
| 2 | ROAD WORK AHEAD | CW 20-100F | 36x36 |
| | DOUBLE FINES | CW 20-102 | 30x18 |
| 3 | END ROAD WORK | G 20-2 | 36x18 |
| 4 | ROAD NARROWS | CW 5-1 | 36x36 |
| 5 | SIDEWALK CLOSED USE OTHER SIDE | R9-10 | 24x12 |
| 6 | SIDEWALK CLOSED | R9-9 | 24x12 |

- LEGEND**
- STAGING AREA
 - SIGN AND POST
 - TEMPORARY CONSTRUCTION FENCING
 - TEMPORARY TRAFFIC MARKER CONE AT EDGE OF WORK LIMITS AS PERMITTED
 - ELECTRICAL VENT
 - INLET BOX
 - ECOLOGY BLOCK ELECTRICAL VAULT
 - FIRE HYDRANT
 - UTILITY VAULT
 - STREET LIGHT
 - PROPERTY LINE

| REVISIONS | DESCRIPTION | DATE | REV |
|-----------|-------------|------|-----|
| | | | |
| | | | |

NORTH PLAN
SOUTH PLAN

DESIGNED BY: SR

CHECKED BY: RZ
DRAWN BY: GRD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

**KETCHIKAN:
WATER STREET
SIDEWALK
IMPROVEMENTS
PROJECT No. 68162**

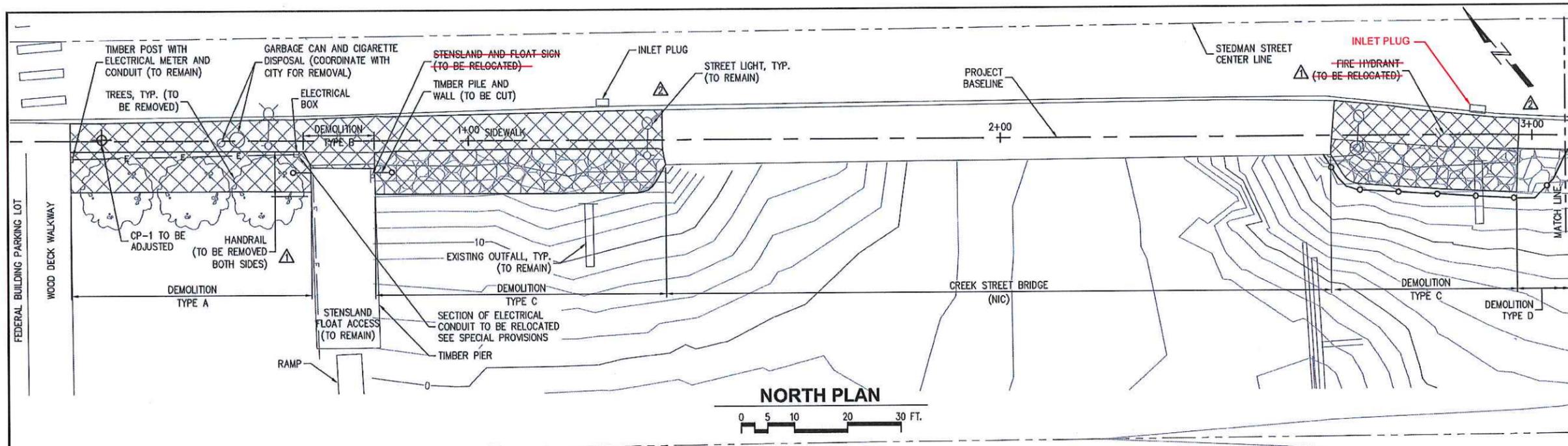
CLOSURE AND SECURITY PLAN AND NOTES

PROJECT DESIGNATION
STP-0902(037)

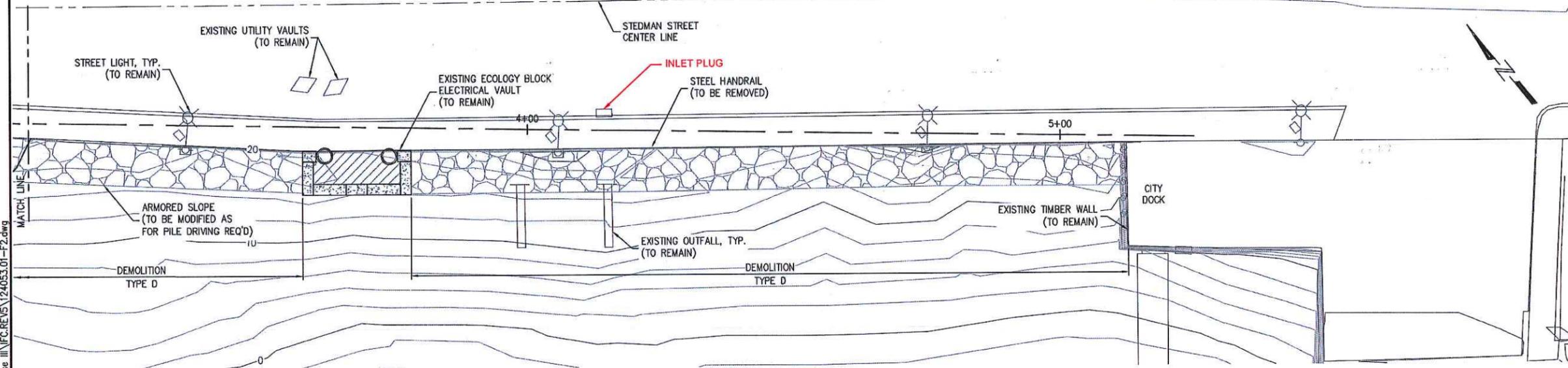
| | |
|---------------|--------------|
| STATE | YEAR |
| ALASKA | 2013 |
| SHEET NUMBER | TOTAL SHEETS |
| F1 | 23 |

4/22/14 Drawings 2012\124053.01 - Ketchikan Waterfront Promenade Phase III\FC-REV\124053.01-F1.dwg

4/22/14 Drawings 2012\124053.01 - Ketchikan Waterfront Promenade Phase III\FC.REV\124053.01-F2.dwg



NORTH PLAN
0 5 10 20 30 FT.



SOUTH PLAN
0 5 10 20 30 FT.

DEMOLITION NOTES

GENERAL
THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE OBJECTS INDICATED IN THE PLANS. SOME OBJECTS SHALL BE RELOCATED AS REQUIRED. GRADE BENEATH THE PROPOSED PROMENADE SHALL BE MODIFIED ACCORDING TO THE DETAILS. MISCELLANEOUS ITEMS ON EXISTING SIDEWALK SHALL BE COORDINATED WITH CITY FOR REMOVAL OR RELOCATION.

REMOVAL OF TIMBER HANDRAIL, METAL HANDRAIL, TIMBER BULLRAIL, TIMBER PILE, TIMBER WALL, AND OTHER MISCELLANEOUS ITEMS SHOWN HERE SHALL BE PAID UNDER PAY ITEM 202(1) REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

STEEL HANDRAILS
STEEL HANDRAILS ALONG THE EXISTING SIDEWALK SHALL BE REMOVED EXCEPT THE LOCATION BETWEEN TWO LIGHT POLES ON BOTH SIDES OF CREEK STREET BRIDGE. STEEL HANDRAILS ADJACENT TO THE ECOLOGY BLOCKS SHALL REMAIN, SEE RAILING PLAN.

SALVAGED STEEL HANDRAIL TO BECOME PROPERTY OF THE CITY. ⚠

ROCKS
ROCK, WHICH IS THE SAME ELEVATION WITH EXISTING SIDEWALK ON BOTH SIDES OF STEDMAN STREET BRIDGE, SHALL BE EXCAVATED AT LEAST 3 FEET DOWN PERMANENTLY TO ACCOMMODATE THE STRUCTURAL MEMBERS ABOVE PILES. APPROPRIATE VOLUMES OF ROCK SHALL BE EXCAVATED AROUND ALL PILES LOCATION FOR PILES DRIVING. BACKFILLS ARE REQUIRED AFTER PILES ARE INSTALLED.

LIGHT POLES
ELECTRICAL SPECIALS

STENSLAND FLOAT ACCESS PIER
PARTIAL OF TIMBER HANDRAILS ASSOCIATED WITH THE NEW PROMENADE SHALL BE REMOVED. THE SIGN ON THAT HANDRAILS SHALL BE RELOCATED AS WELL SEE DEMOLITION DETAILS OR SECTIONS. THE LOWER PART OF CONCRETE SURFACE BETWEEN TIMBER DECKING AND CONCRETE SIDEWALK SHALL BE REPAVED TO THE SAME ELEVATION WITH THE SIDEWALK.

LEGEND

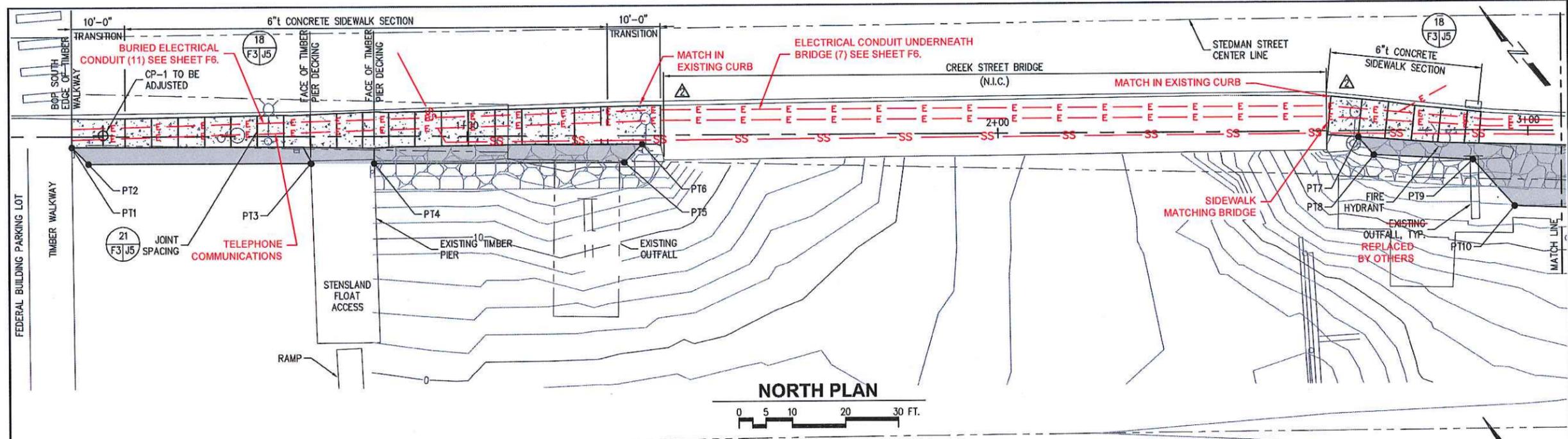
| | |
|--|--------------------------------|
| | LIMITS OF DEMOLITION |
| | ARMORED SLOPE |
| | TREE |
| | TIMBER PILE |
| | ELECTRICAL VENT |
| | INLET BOX |
| | ECOLOGY BLOCK ELECTRICAL VAULT |
| | FIRE HYDRANT |
| | UTILITY VAULT |
| | STREET LIGHT |

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: DR DATE: 4/21/14

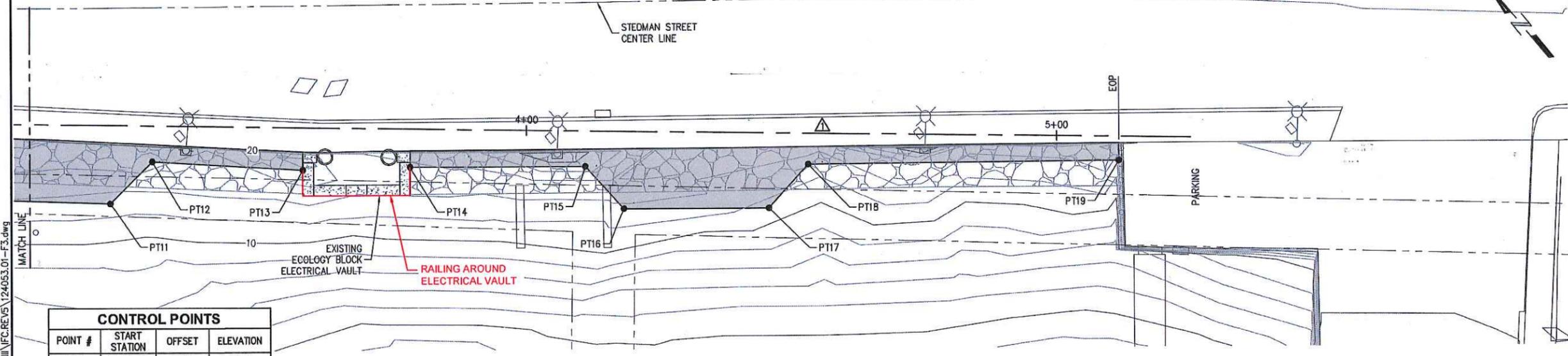
| REVISIONS | DATE | DESCRIPTION |
|-----------|------|------------------------|
| 2 | 2/14 | RETAINING WALL REDSIGN |
| 1 | 2/14 | ADD BID ITEM TO PLANS |
| REV | DATE | DESCRIPTION |

| |
|---|
| DESIGNED BY: SR |
| CHECKED BY: RZ |
| DRAWN BY: GRD |
| STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION |
| KETCHIKAN: WATER STREET SIDEWALK IMPROVEMENTS PROJECT No. 68162 |
| DEMOLITION PLAN |
| PROJECT DESIGNATION STP-0902(037) |
| STATE ALASKA 2013 |
| SHEET NUMBER TOTAL SHEETS F2 23 |

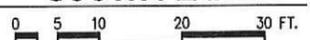
4/22/14 Drawings: 2012\124053.01 - Ketchikan Waterfront Promenade Phase III\F3.REV15\124053.01-F3.dwg



NORTH PLAN



SOUTH PLAN



| CONTROL POINTS | | | |
|----------------|---------------|--------|-----------|
| POINT # | START STATION | OFFSET | ELEVATION |
| PT1 | 0+25.00 | 1.88R | 22.21 |
| PT2 | 0+28.13 | 5.00R | 21.92 |
| PT3 | 0+70.10 | 4.98R | 21.16 |
| PT4 | 0+82.21 | 5.02R | 21.34 |
| PT5 | 1+29.37 | 5.00R | 21.71 |
| PT6 | 1+32.73 | 1.64R | 21.74 |
| PT7 | 2+67.79 | 1.17R | 21.65 |
| PT8 | 2+70.71 | 4.54R | 21.60 |
| PT9 | 2+89.37 | 5.51R | 21.42 |
| PT10 | 2+97.44 | 14.17R | 21.46 |
| PT11 | 3+21.48 | 14.62R | 21.50 |
| PT12 | 3+29.26 | 6.67R | 21.48 |
| PT13 | 3+57.72 | 7.90R | 21.45 |
| PT14 | 3+78.13 | 7.12R | 21.37 |
| PT15 | 4+11.22 | 6.60R | 21.69 |
| PT16 | 4+18.60 | 14.45R | 21.71 |
| PT17 | 4+45.90 | 14.03R | 21.76 |
| PT18 | 4+53.23 | 5.8R | 21.77 |
| PT19 | 5+09.73 | 4.48R | 21.61 |

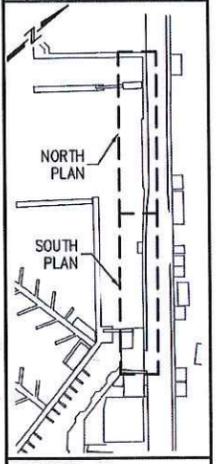
NOTE
ELEVATIONS FROM SURVEY SHOWN.
DECK SURFACE ELEVATION TO MATCH
ELEVATION OF EXISTING ADJOINING
WALKING SURFACE.

LEGEND

- LIMITS OF NEW PROMENADE
- ARMORED SLOPE
- CONTROL POINT
- TIMBER PILE
- ELECTRICAL VENT
- INLET BOX
- ECOLOGY BLOCK ELECTRICAL VAULT
- FIRE HYDRANT
- UTILITY VAULT
- STREET LIGHT
- PROPERTY LINE

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: *RZ* DATE: *1/24/16*

| REVISIONS | REY | DATE | DESCRIPTION |
|-----------|------|------|--|
| 2 | 2/14 | 2/14 | RETAINING WALL REVISION AND BID ADDENDA TO PLANS |
| 1 | 2/14 | 2/14 | |



DESIGNED BY: SR

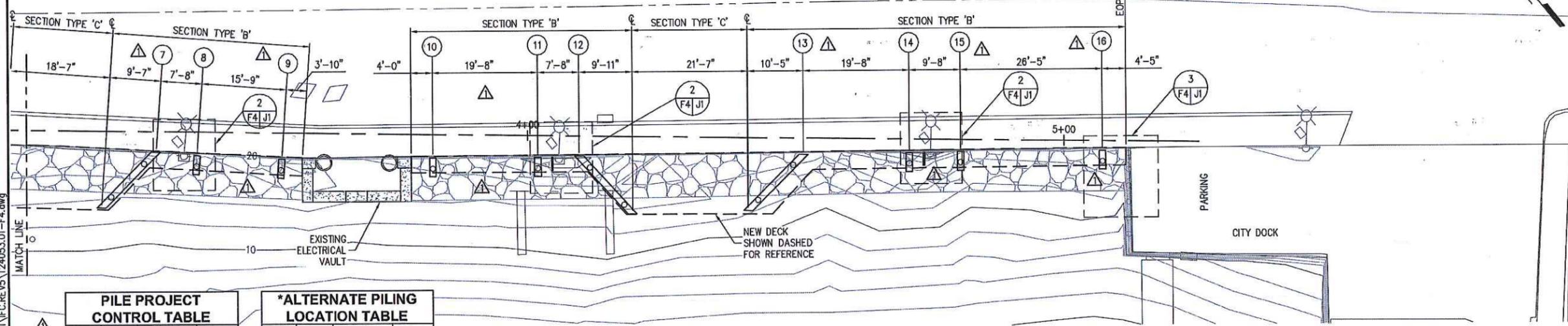
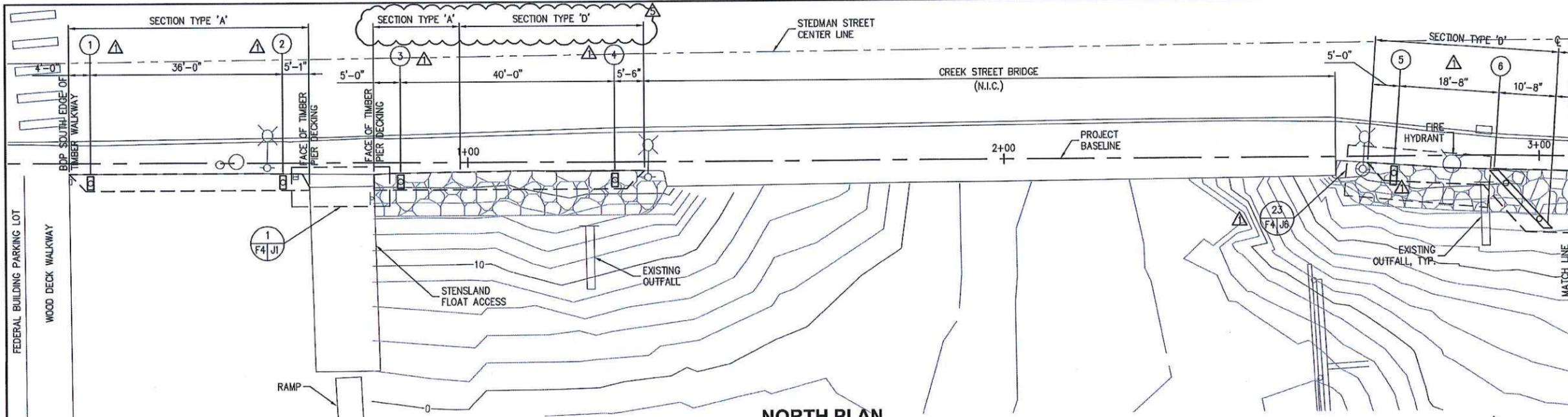
CHECKED BY: RZ
DRAWN BY: GRD

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

KETCHIKAN WATER STREET SIDEWALK IMPROVEMENTS PROJECT No. 68162

GENERAL ARRANGEMENT PLAN

| | |
|---------------------|--------------|
| PROJECT DESIGNATION | |
| STP-0902(037) | |
| STATE | YEAR |
| ALASKA | 2013 |
| SHEET NUMBER | TOTAL SHEETS |
| F3 | 23 |



| PILE PROJECT CONTROL TABLE | | | |
|----------------------------|-----|---------|--------|
| Bent | Row | Station | Offset |
| 1 | A | 0+29.00 | 3.49R |
| 2 | A | 0+65.00 | 3.48R |
| 3 | A | 0+87.22 | 3.49R |
| 4 | A | 1+27.22 | 3.37R |
| 5 | A | 2+72.67 | 3.14R |
| 6 | A | 2+92.67 | 4.19R |
| 6 | B | 2+99.93 | 11.75R |
| 7 | B | 3+21.96 | 12.21R |
| 7 | A | 3+29.16 | 4.98R |
| 8 | A | 3+37.97 | 5.58R |
| 9 | A | 3+53.70 | 6.12R |
| 10 | A | 3+82.11 | 5.56R |
| 11 | A | 4+01.83 | 6.02R |
| 12 | A | 4+11.10 | 5.41R |
| 12 | B | 4+17.94 | 12.64R |
| 13 | B | 4+42.93 | 11.53R |
| 13 | A | 4+50.12 | 4.26R |
| 14 | A | 4+71.02 | 4.50R |
| 15 | A | 4+80.67 | 3.46R |
| 16 | A | 5+07.09 | 3.04R |

| *ALTERNATE PILING LOCATION TABLE | | | |
|----------------------------------|-----|---------|--------|
| Bent | Row | Station | Offset |
| 1 | A | - | - |
| 2 | A | - | - |
| 3 | A | - | - |
| 4 | A | - | - |
| 5 | A | 2+72.62 | 3.89R |
| 6 | A | 2+93.47 | 4.94R |
| 6 | B | - | - |
| 7 | B | - | - |
| 7 | A | 3+28.43 | 5.73R |
| 8 | A | 3+37.97 | 6.33R |
| 9 | A | 3+53.70 | 6.87R |
| 10 | A | 3+82.11 | 6.31R |
| 11 | A | 4+01.83 | 6.02R |
| 12 | A | 4+11.82 | 6.16R |
| 12 | B | - | - |
| 13 | B | - | - |
| 13 | A | 4+49.39 | 5.01R |
| 14 | A | 4+71.02 | 4.50R |
| 15 | A | 4+80.67 | 4.21R |
| 16 | A | 5+07.09 | 3.79R |

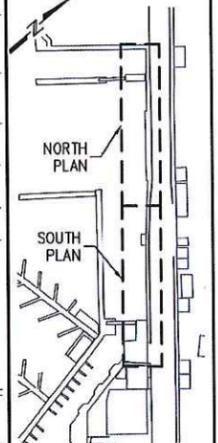
*IF THE DESIGN PILE LOCATION CANNOT BE USED DUE TO OBSTRUCTION, THE FOLLOWING ALTERNATE LOCATIONS ARE ACCEPTABLE.

LEGEND

- ARMORED SLOPE
- TIMBER PILE
- ELECTRICAL VENT
- CATCH BASIN
- ECOLOGY BLOCK
- FIRE HYDRANT
- UTILITY VAULT
- STREET LIGHT
- STANDARD 15' PILE CAP
- STANDARD 2.5' PILE CAP
- STANDARD 3.5' PILE CAP

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
 PE: DR DATE: 7/21/16

| REV | DATE | DESCRIPTION |
|-----|------|--------------------------|
| 5 | 3/14 | SECTION D RETAINING WALL |
| 2 | 2/14 | RETAINING WALL REDSIGN |
| 1 | 2/14 | ADD BID AGENDA TO PLANS |



DESIGNED BY: SR
 CHECKED BY: RZ
 DRAWN BY: GRD

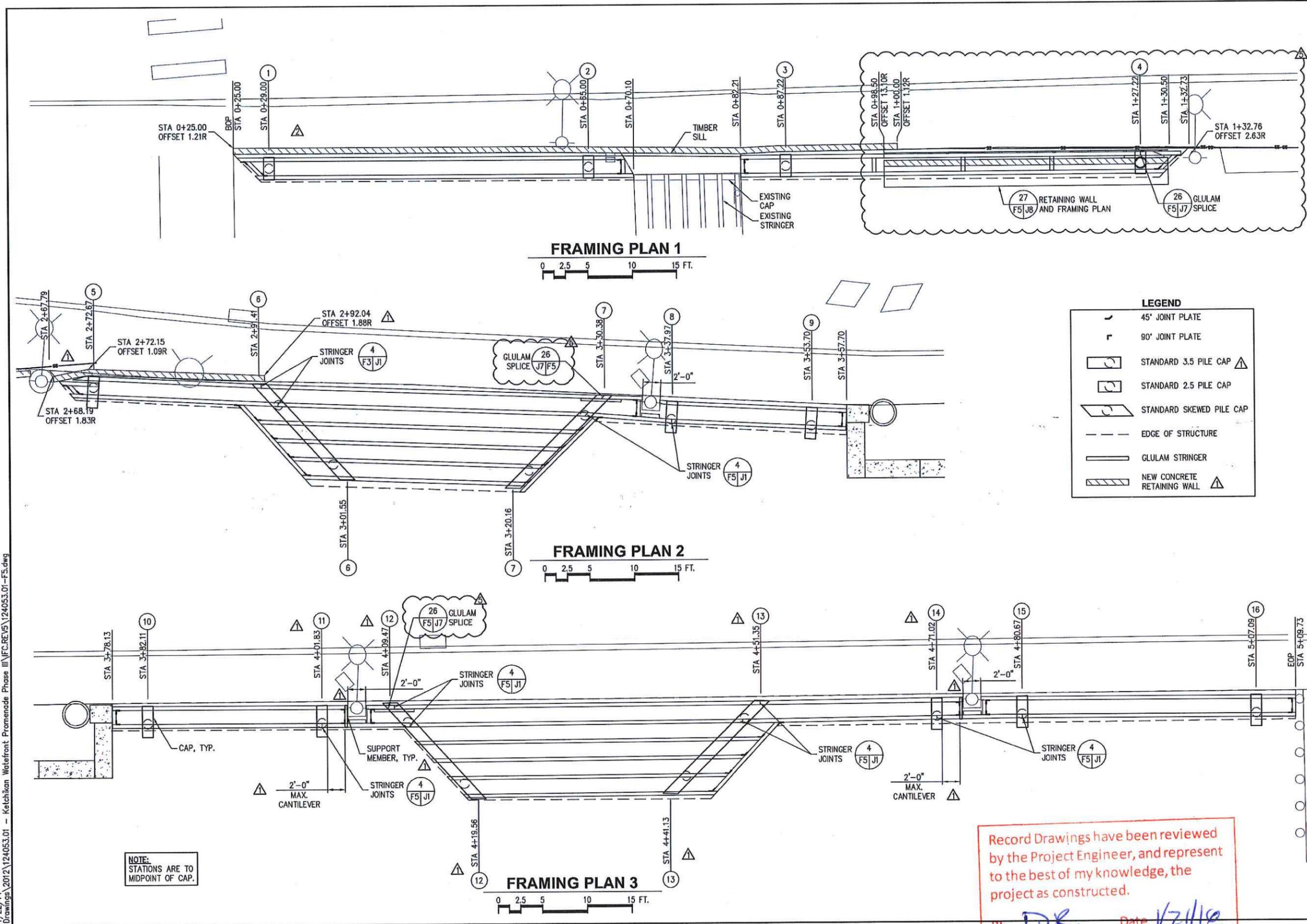
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION-SOUTHEAST REGION
KETCHIKAN: WATER STREET SIDEWALK IMPROVEMENTS PROJECT No. 68162

PILE AND CAP PLAN

| | |
|---------------------|--------------|
| PROJECT DESIGNATION | |
| STP-0902(037) | |
| STATE | YEAR |
| ALASKA | 2013 |
| SHEET NUMBER | TOTAL SHEETS |
| F4 | 23 |

4/22/14 Drawings 2012 124053.01 - Ketchikan Waterfront Promenade Phase III IFC REV 5 124053.01 - F4.dwg

4/22/14 Drawings 2012\124053.01 - Ketchikan Waterfront Promenade Phase II\F5\REV\124053.01-F5.dwg



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE DR Date 1/21/10

| REV | DATE | DESCRIPTION |
|-----|------|--|
| 1 | 2/14 | ADD BID ADDENDA TO PLANS |
| 2 | 3/14 | RETAINING WALL REDISSER |
| 3 | 3/14 | RETAINING WALL SECTION D & GLULAM SPLICE |

DESIGNED BY: SR

CHECKED BY: RZ

DRAWN BY: GRD

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

KETCHIKAN WATER STREET IMPROVEMENTS PROJECT No. 68162

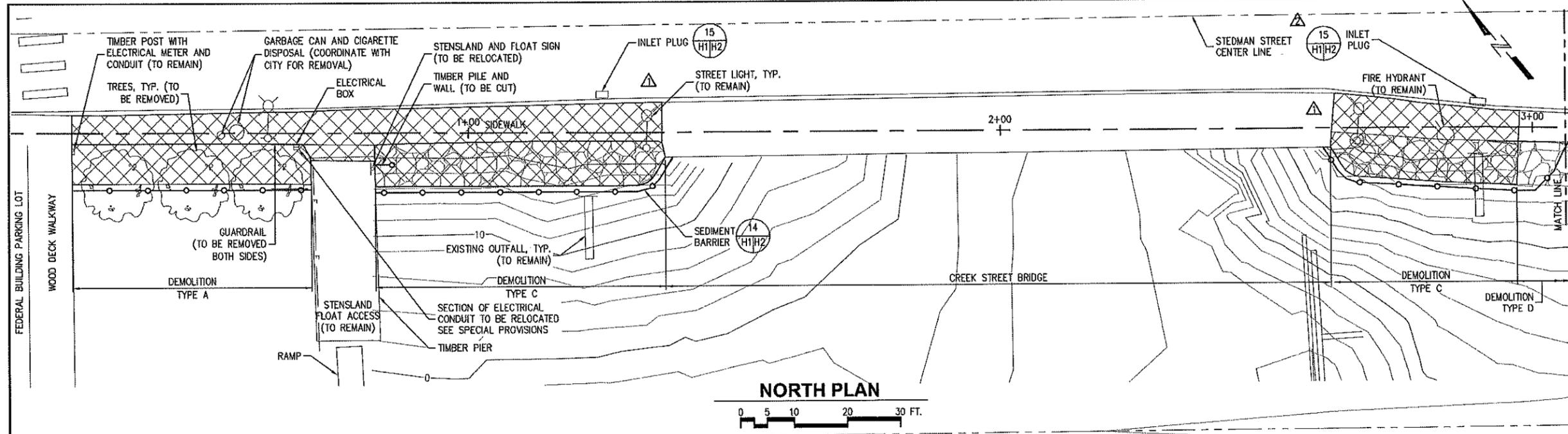
FRAMING PLAN

PROJECT DESIGNATION
STP-0902(037)

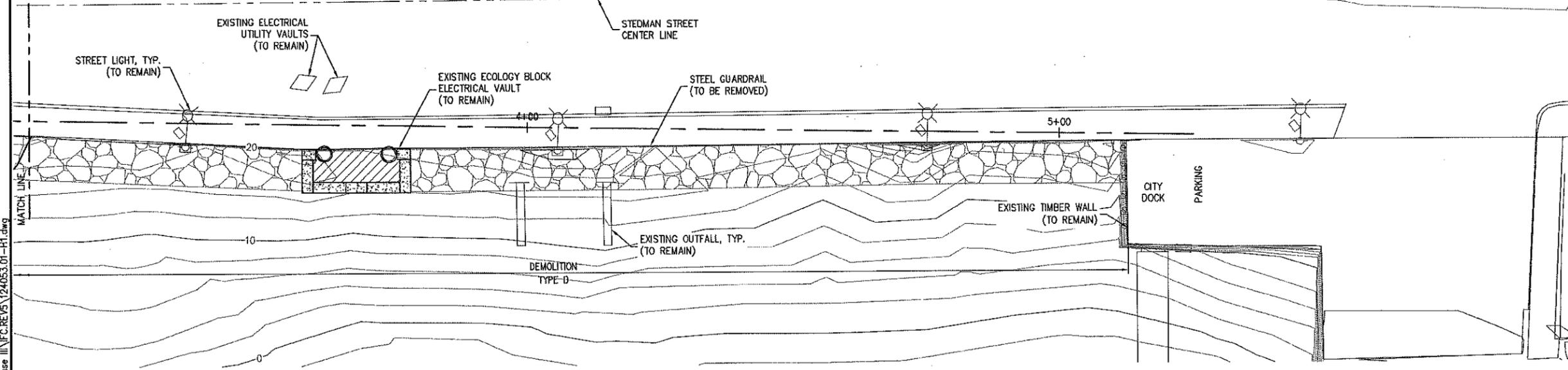
| | |
|--------|------|
| STATE | YEAR |
| ALASKA | 2013 |

| | |
|--------------|--------------|
| SHEET NUMBER | TOTAL SHEETS |
| F5 | 23 |

4/22/14 Drawings 2012\124053.01 - Ketchikan Waterfront Promenade Phase III\F.C.REV5\124053.01-H1.dwg



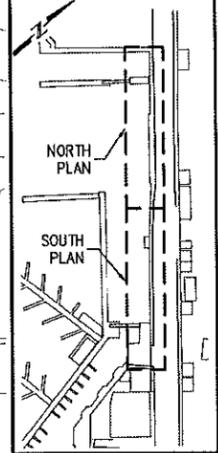
NORTH PLAN
0 5 10 20 30 FT.



SOUTH PLAN
0 5 10 20 30 FT.

- LEGEND**
- LIMITS OF DEMOLITION
 - ARMORED SLOPE
 - TREE
 - TIMBER PILE
 - ELECTRICAL VENT
 - INLET BOX
 - ECOLOGY BLOCK ELECTRICAL VAULT
 - FIRE HYDRANT
 - UTILITY VAULT
 - STREET LIGHT

| REVISIONS | REV | DATE | DESCRIPTION |
|-----------|-----|------|-------------------------|
| | 2 | 3/14 | RETAINING WALL REDISSON |
| | 1 | 2/14 | RETAINING WALL REDISSON |



DESIGNED BY: SR

CHECKED BY: RZ
DRAWN BY: GRD

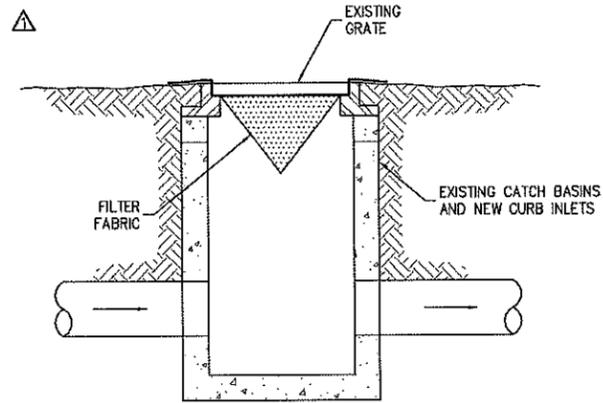
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

**KETCHIKAN:
WATER STREET
SIDEWALK
IMPROVEMENTS
PROJECT No. 68162**

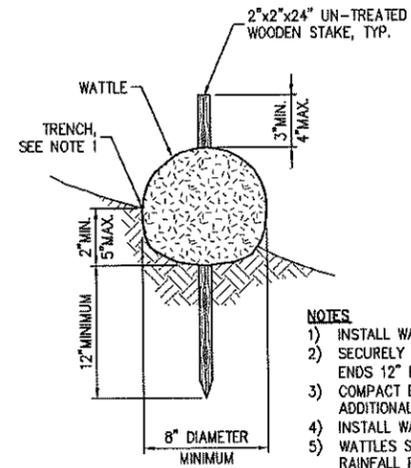
**EROSION AND
SEDIMENT
CONTROL PLAN**

| PROJECT DESIGNATION | |
|----------------------|--------------|
| STP-0902(037) | |
| STATE | YEAR |
| ALASKA | 2013 |
| SHEET NUMBER | TOTAL SHEETS |
| H1 | 23 |

4/22/14 Drawings_2012\124053.01 - Ketchikan Waterfront Promenade Phase III\F.C.REV.15\124053.01-H2.dwg



15
H1/H2
TYPICAL INLET PLUG
NOT TO SCALE

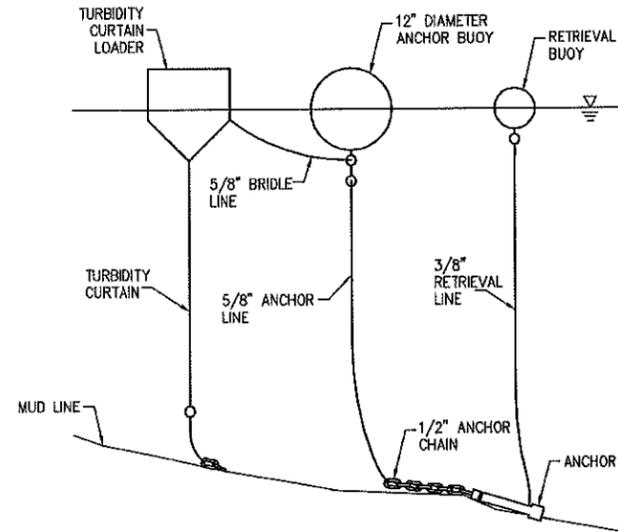


14
H1/H2
SEDIMENT BARRIER
NOT TO SCALE

- NOTES**
- 1) INSTALL WATTLES ALONG CONTOURS.
 - 2) SECURELY KNOT EACH END OF WATTLE. OVERLAP ADJACENT WATTLE ENDS 12" BEHIND ONE ANOTHER AND SECURELY TIE TOGETHER.
 - 3) COMPACT EXCAVATED SOIL AND TRENCHES TO PREVENT UNDERCUTTING. ADDITIONAL STAKING MAY BE NECESSARY TO PREVENT UNDERCUTTING.
 - 4) INSTALL WATTLE PERPENDICULAR TO FLOW ALONG CONTOURS.
 - 5) WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 1) THE IMPLEMENTATION OF THESE ESCP PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESCP FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- 2) THE ESCP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESCP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS
- 3) THE ESCP FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESCP FACILITIES DURING THE WET SEASON.

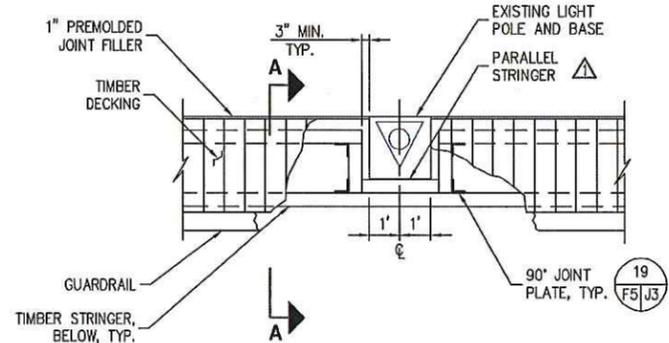


16
H1/H2
TURBIDITY CURTAIN
NOT TO SCALE

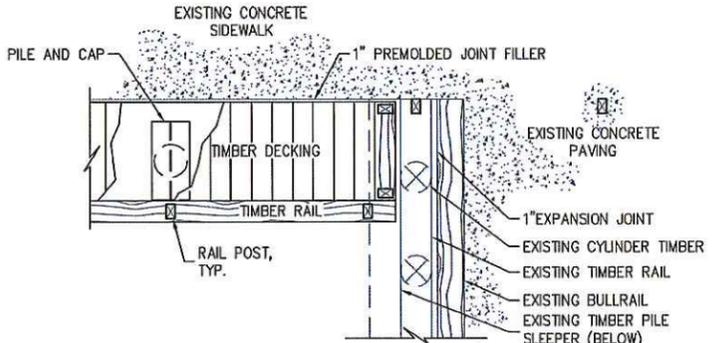
NOTE:
TO BE USED ONLY IF DIFFICULT PILE DRIVING REQUIRES EXCAVATION BELOW MHW. USE NON-WOVEN, POLYPROPYLENE GEOSYNTHETIC FABRIC (8 OZ MIN PER SQ. YARD). SECURE CONNECTIONS BETWEEN ADJACENT PANELS BY SEWING OR BY ANOTHER APPROVED METHOD TO MAINTAIN THE EFFECTIVENESS OF THE SILT RETENTION.

| REVISIONS | | DESCRIPTION |
|-----------|------|-------------------------|
| 1 | 1/14 | ADD BID AGENDA TO PLANS |
| REV | DATE | |

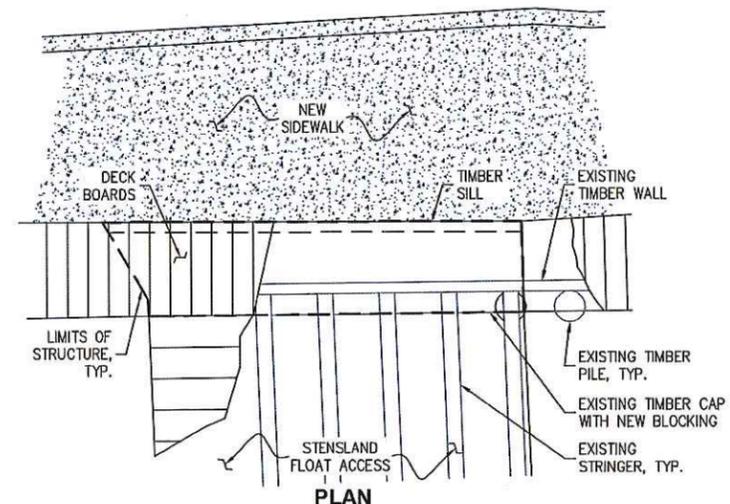
| | |
|---|--------------|
| DESIGNED BY: | SR |
| CHECKED BY: | RZ |
| DRAWN BY: | GRD |
| STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION SOUTHEAST REGION KETCHIKAN: WATER STREET SIDEWALK IMPROVEMENTS PROJECT No. 68162 EROSION AND SEDIMENT CONTROL DETAILS | |
| PROJECT DESIGNATION | |
| STP-0902(037) | |
| STATE | YEAR |
| ALASKA | 2013 |
| SHEET NUMBER | TOTAL SHEETS |
| H2 | 23 |



2 LIGHT POLE FRAMING
F4 J1

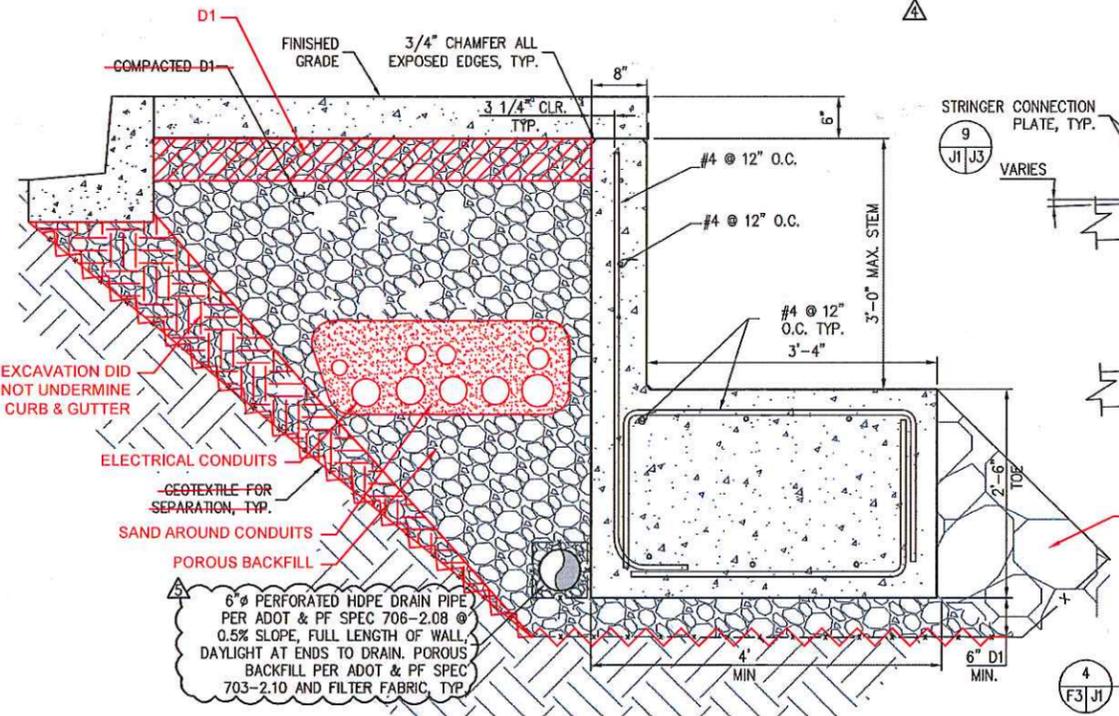


3 END OF PROJECT
F4 J1

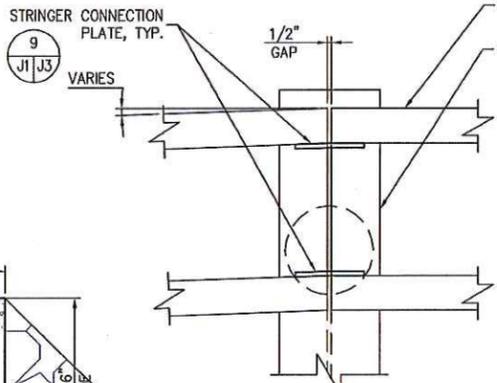


PLAN

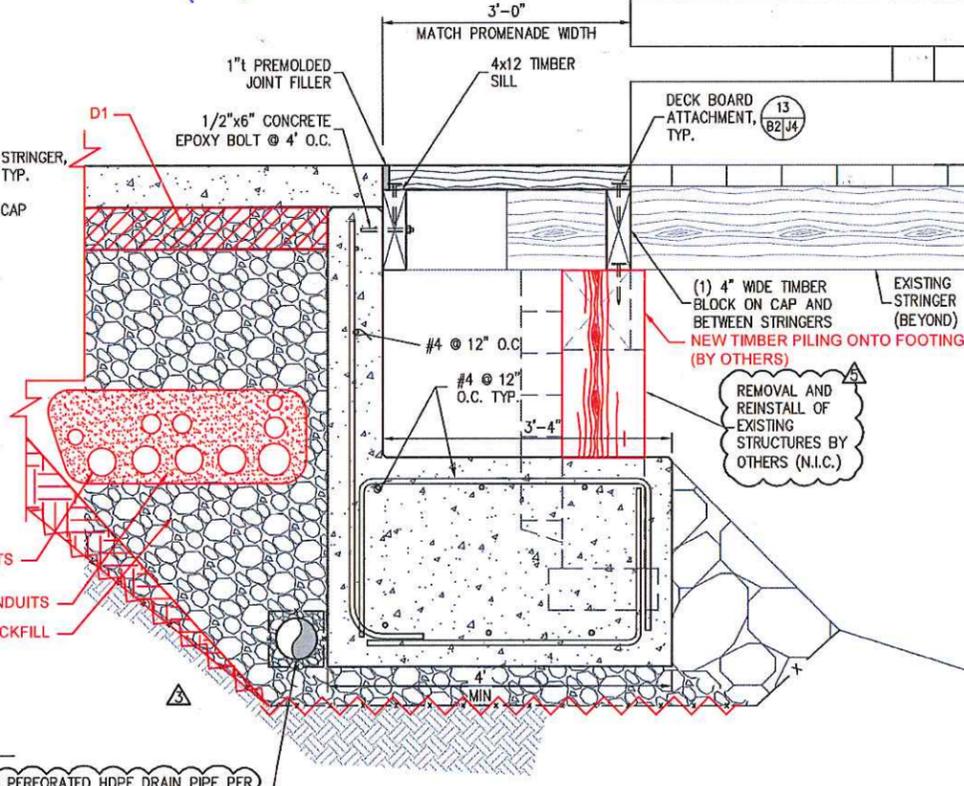
PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: TEX DATE: 1/21/16



12 CONCRETE RETAINING WALL
B2 J1
ALL RETAINING WALL CONCRETE SHALL BE CLASS A. ALL STEEL SHOWN IS REINFORCING STEEL WITH A MINIMUM BENDING RADIUS OF 6 TIMES THE DIAMETER OF THE BAR.



9 STRINGER JOINT
J1 J3

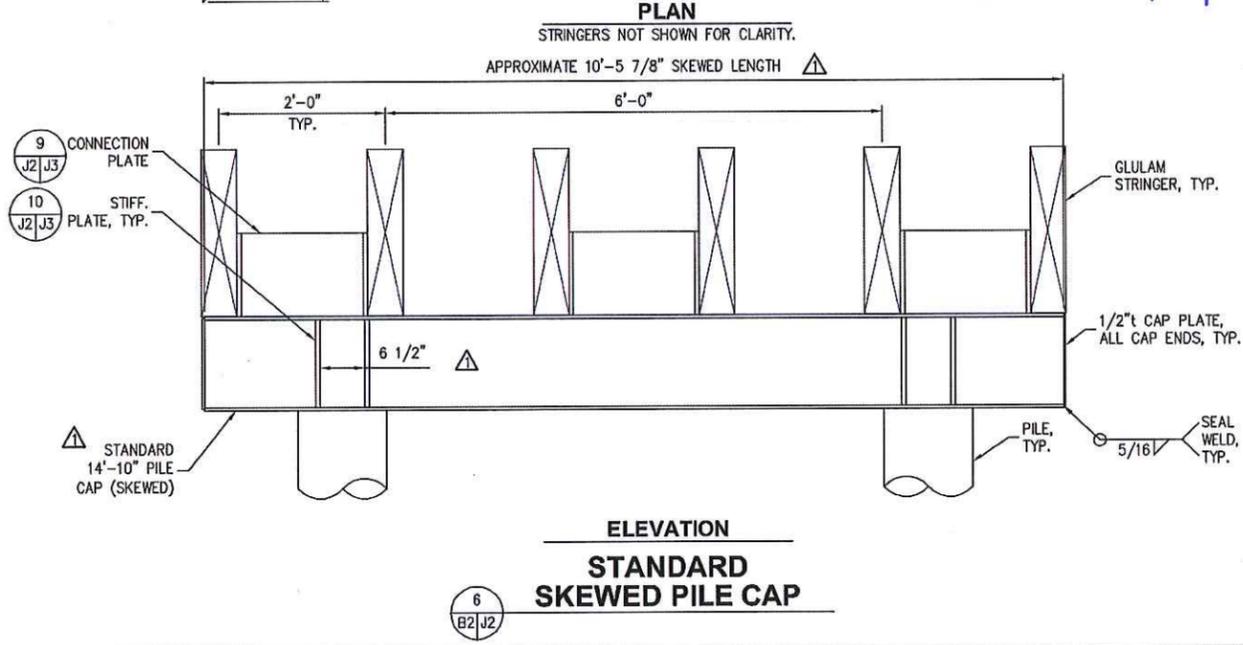
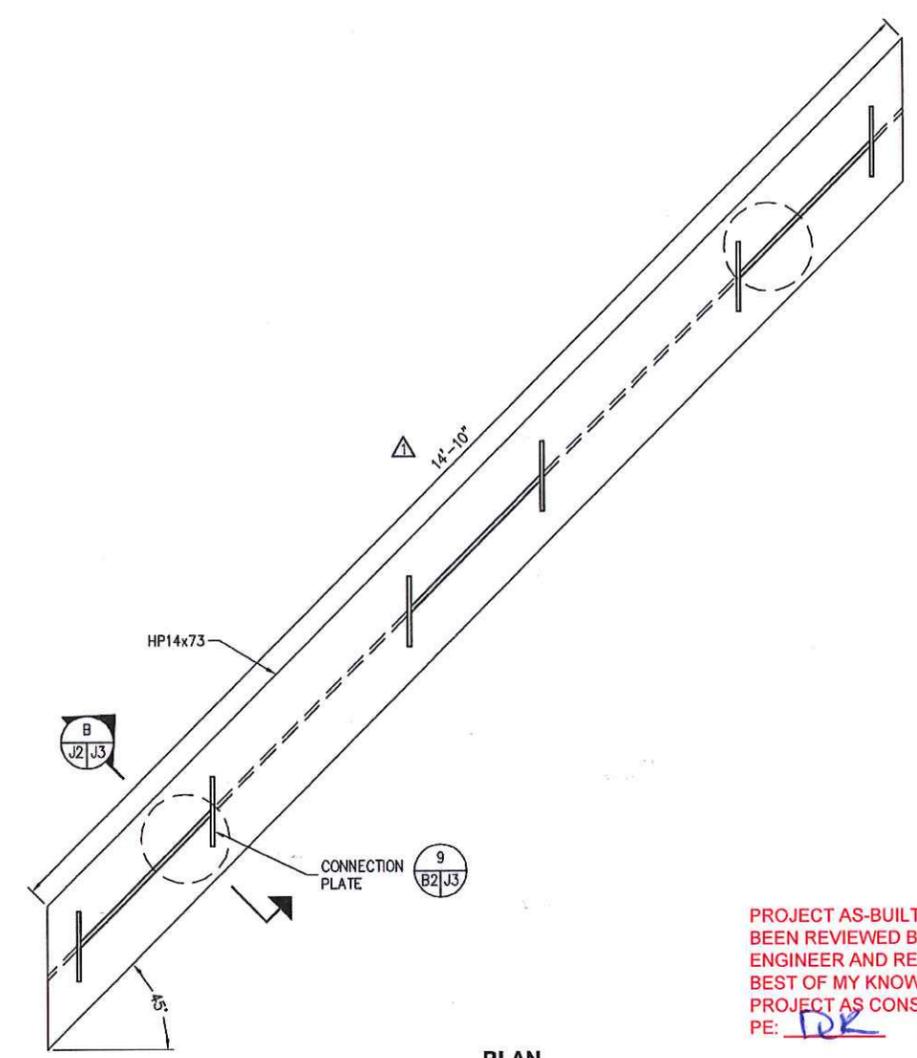
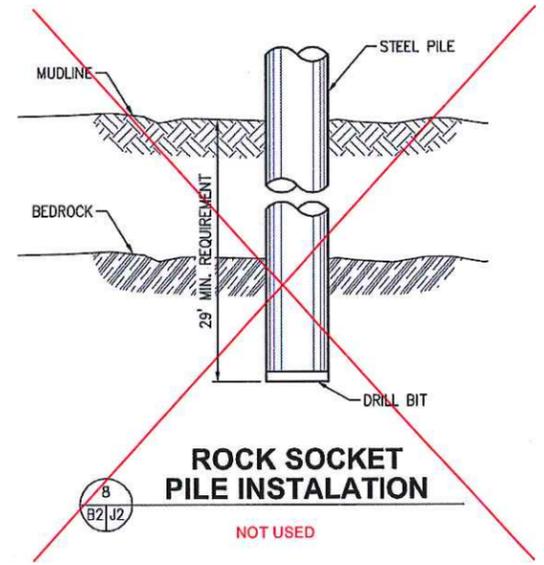
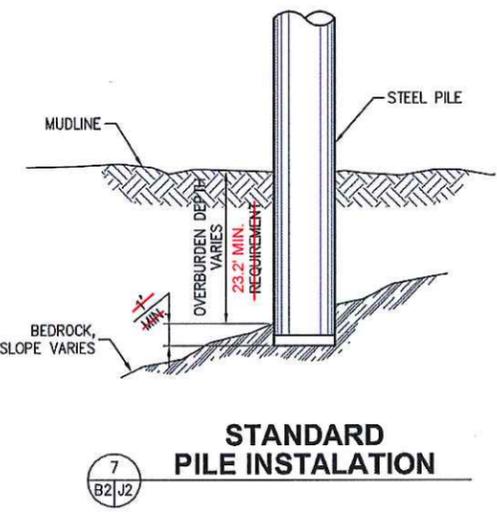
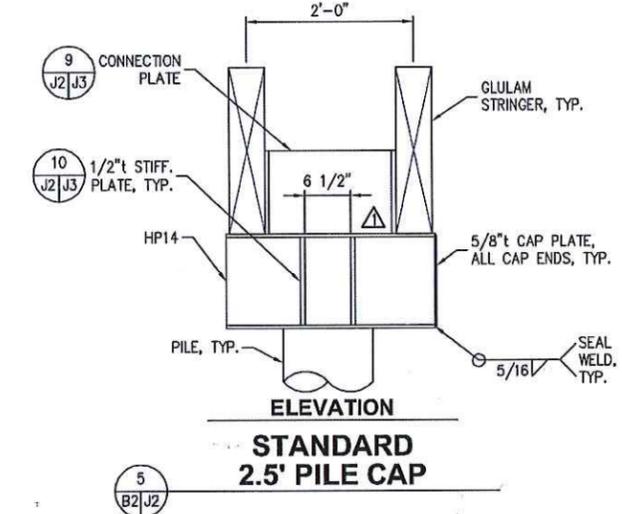
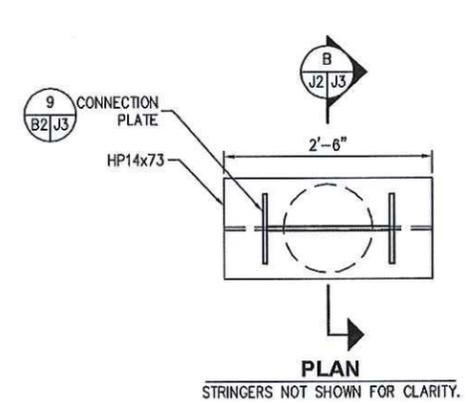
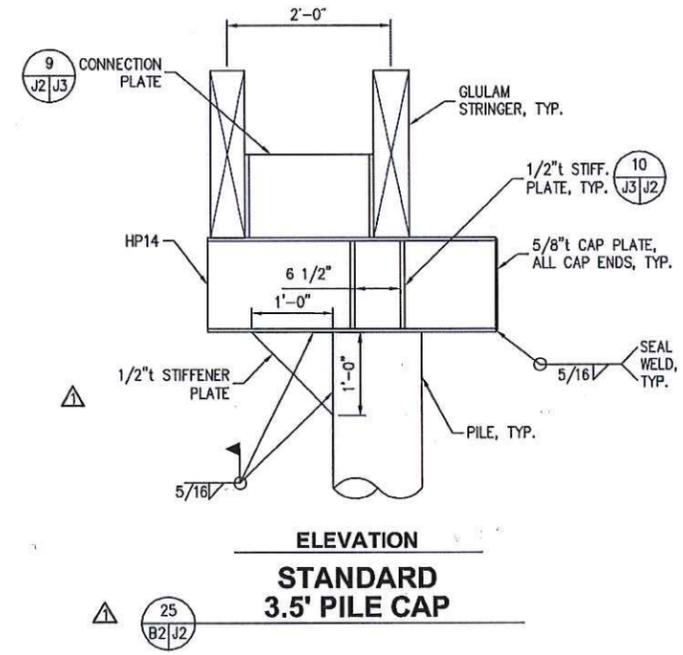
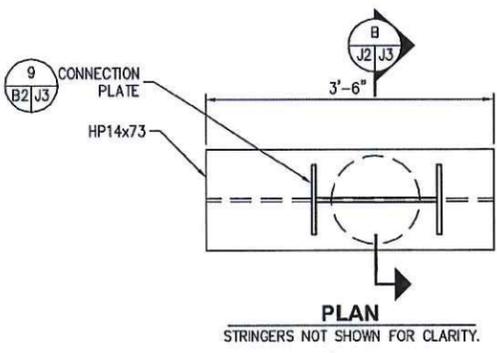


1 STENSLAND ACCESS DECKING
F4 J1
TIMBER DECK TIE-IN TO BE COMPLETED AFTER THE CITY OF KETCHIKAN REPLACES THE TIMBER PILE AND CAP

| REVISIONS | REVISIONS | DATE | DESCRIPTION |
|-----------|-----------|------|-------------------------------------|
| 5 | 3/12 | | |
| 4 | 3/14 | | RETAINING WALL REDSIGN AND DRAINAGE |
| 3 | 3/14 | | RETAINING WALL REDSIGN |
| 2 | 2/14 | | RETAINING WALL REDSIGN |
| 1 | 2/14 | | ADD BID ADDENDA TO PLANS |
| REV | | | |

| |
|--|
| DESIGNED BY: SR |
| CHECKED BY: RZ |
| DRAWN BY: GRD |
| STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION SOUTHEAST REGION KETCHIKAN: WATER STREET SIDEWALK IMPROVEMENTS PROJECT No. 68162 |
| DETAILS |
| PROJECT DESIGNATION STP-0902(037) |
| STATE ALASKA YEAR 2013 |
| SHEET NUMBER J1 TOTAL SHEETS 23 |

4/22/14 Drawings\2012\124053.01 - Ketchikan Waterfront Promenade Phase III\FC.REV5\124053.01-11.dwg



PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: DR DATE: 1/2/16

4/22/14 Drawings 2012\124053.01 - Ketchikan Waterfront Promenade Phase III\FC.REV5\124053.01-12.dwg

| REVISIONS | DATE | DESCRIPTION |
|-----------|------|--------------------------|
| 1 | 1/14 | ADD BID ADDENDA TO PLANS |

DESIGNED BY: SR

CHECKED BY: RZ
DRAWN BY: GRD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

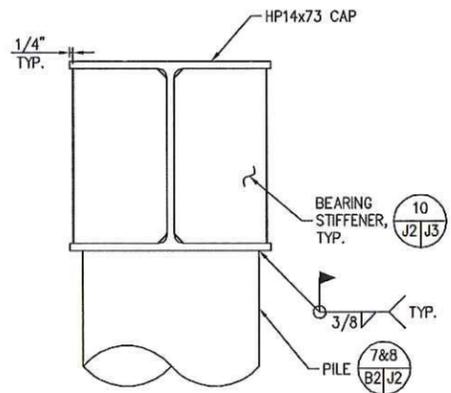
KETCHIKAN: WATER STREET SIDEWALK IMPROVEMENTS PROJECT No. 68162

PILE AND CAP DETAILS

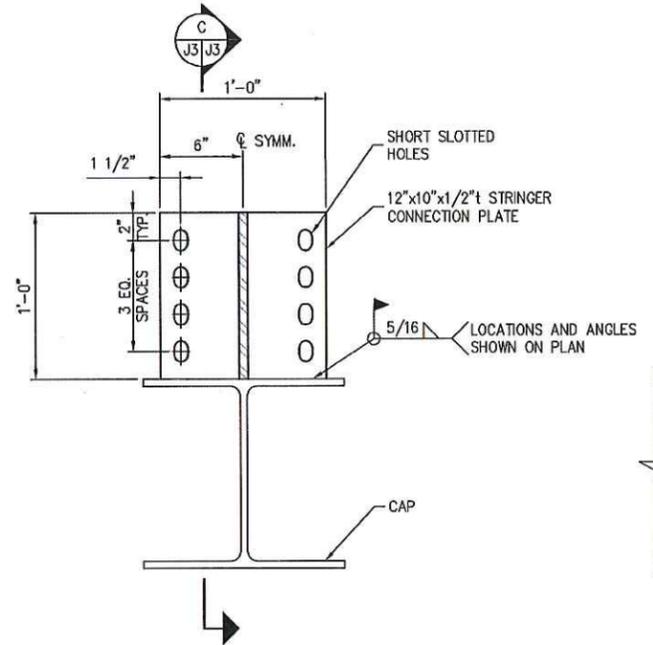
PROJECT DESIGNATION
STP-0902(037)

| | |
|---------------|-------------|
| STATE | YEAR |
| ALASKA | 2013 |

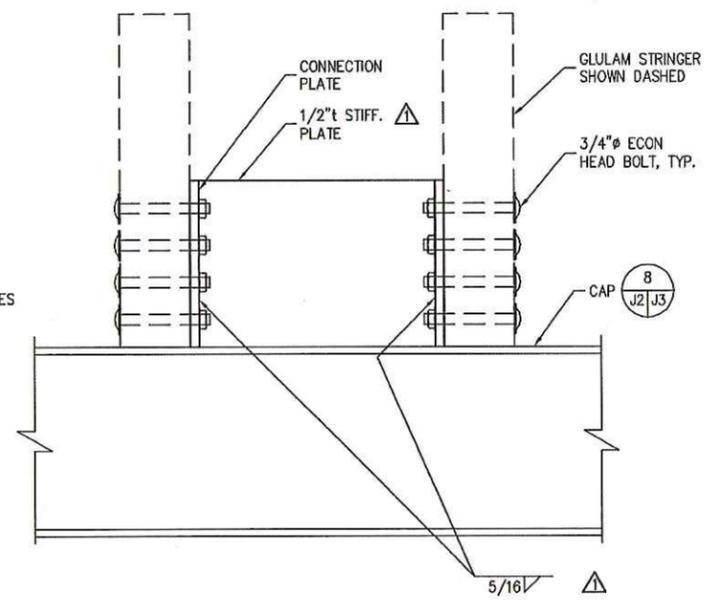
| | |
|--------------|--------------|
| SHEET NUMBER | TOTAL SHEETS |
| J2 | 23 |



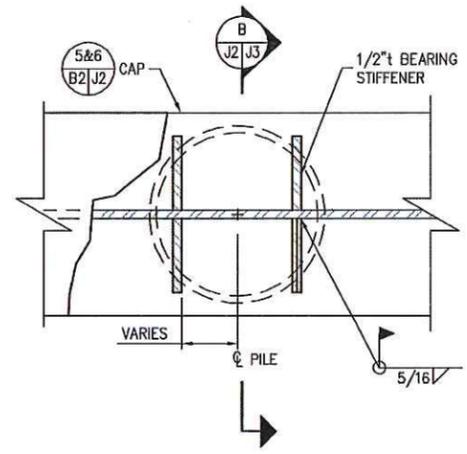
10
J2|J3 **CAP CONNECTION**



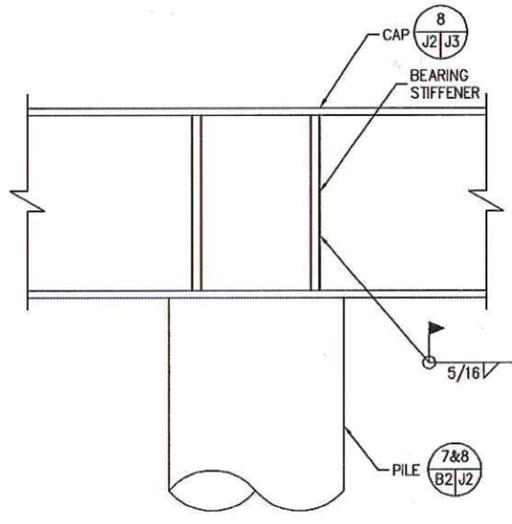
9
J2|J3 **STRINGER CONNECTION PLATE**
STRINGER CONNECTION PLATES CAN BE SHOP OR FIELD WELDED TO CAPS AT THE CONTRACTOR'S DISCRETION, BUT MAY NEED TO BE FIELD ADJUSTED TO ENSURE MAXIMUM 6\"/>



8
J3|J3 **STRINGER CONNECTION PLATE**



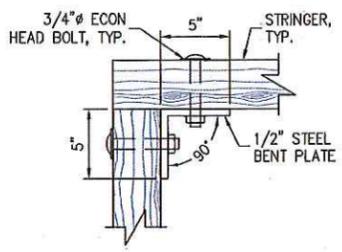
PLAN



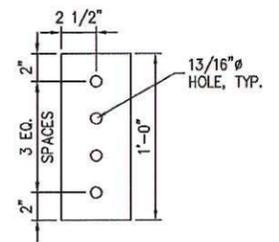
ELEVATION

10
J2|J3 **PILE BEARING STIFFENERS**
PILE BEARING STIFFENER PLATES CAN BE SHOP OR FIELD WELDED TO CAPS AT THE CONTRACTOR'S DISCRETION, BUT MUST BE CENTERED OVER INSTALLED PILE LOCATIONS WITH A 3\"/>

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: *[Signature]* DATE: *1/21/20*

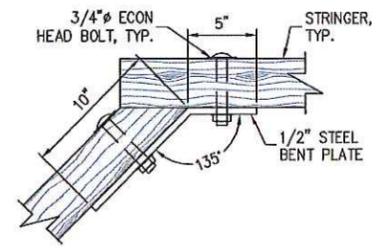


PLAN

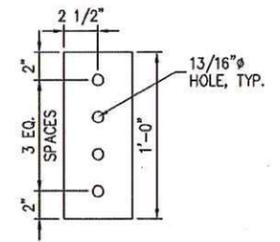


ELEVATION

19
F5|J3 **90° JOINT PLATE**



PLAN



ELEVATION

20
F5|J3 **45° JOINT PLATE**

| REVISIONS | ADD. BID. AENDM. TO PLANS | DATE | DESCRIPTION |
|-----------|---------------------------|------|-------------|
| 1 | | 2/14 | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |

DESIGNED BY: SR

CHECKED BY: RZ
DRAWN BY: GRD

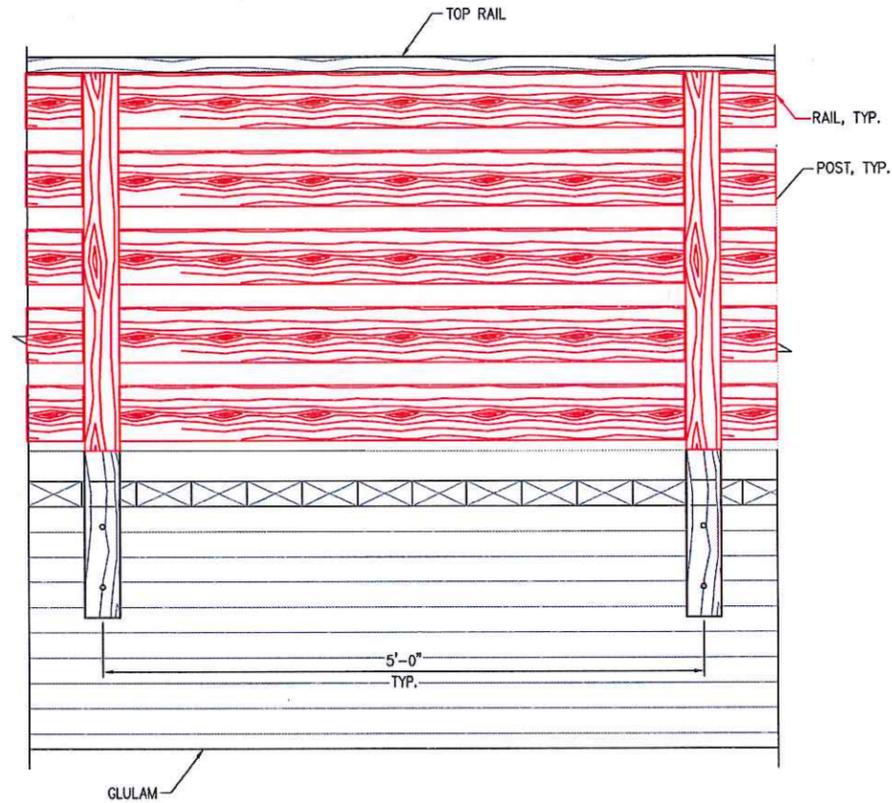
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION SOUTHEAST REGION

KETCHIKAN: WATER STREET SIDEWALK IMPROVEMENTS PROJECT No. 68162

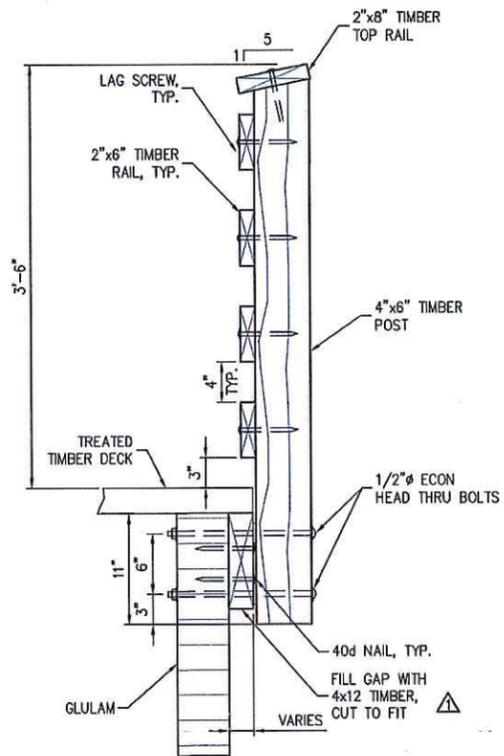
CAP DETAILS

| | |
|---------------------|--------------|
| PROJECT DESIGNATION | |
| STP-0902(037) | |
| STATE | YEAR |
| ALASKA | 2013 |
| SHEET NUMBER | TOTAL SHEETS |
| J3 | 23 |

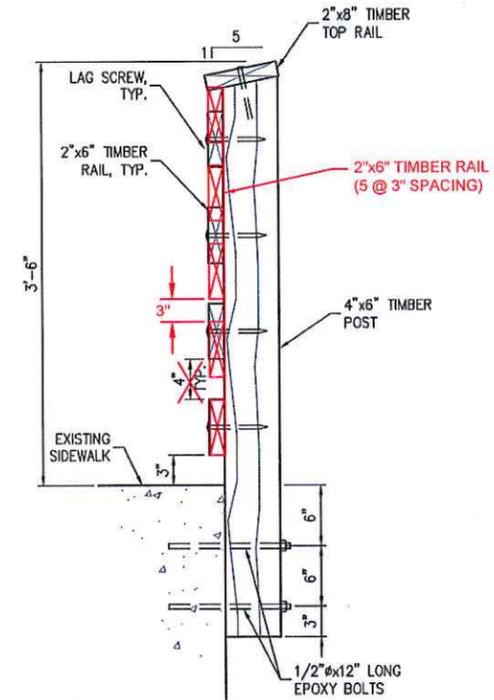
4/22/14 Drawings 2012\124053.01 - Ketchikan Waterfront Promenade Phase III\F.C.REV5\124053.01-J3.dwg



ELEVATION

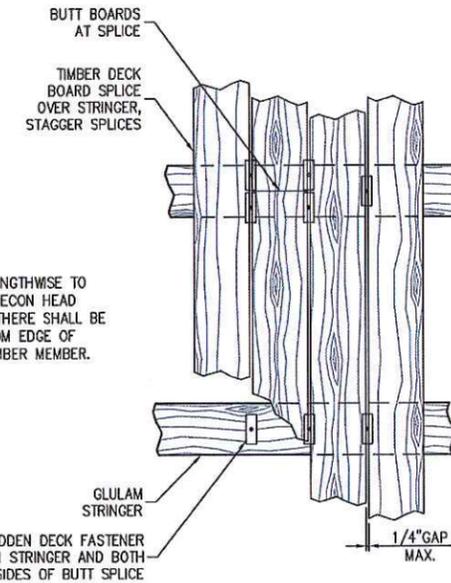


TYPE A ATTACHMENT SECTION

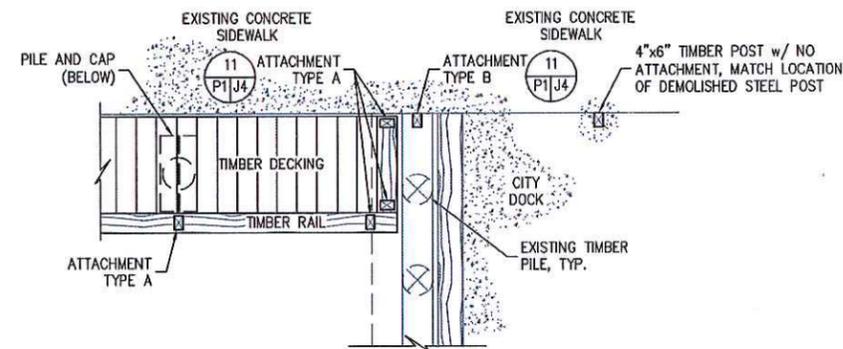


TYPE B ATTACHMENT SECTION

11
P1|J4 **HANDRAIL**
RAIL SPLICES SHALL OCCUR AT THE POSTS WITH A MAXIMUM 1/4" GAP. HANDRAIL SHALL BE INSTALLED IN INDEPENDENT, STRAIGHT LINE SEGMENTS. AT CHANGES IN HANDRAIL ALIGNMENT, SPACE RESPECTIVE END POSTS 4" APART, MAXIMUM. BUTT TOP RAIL SEGMENTS TOGETHER WITH A MITERED CUT.



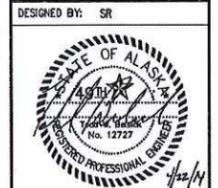
DECK BOARD ATTACHMENT



END OF PROJECT RAILING

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: DR DATE: 1/21/10

| REVISIONS | DATE | DESCRIPTION |
|-----------|------|-------------------------|
| 1 | 2/14 | ADD BID AMENDA TO PLANS |



DESIGNED BY: SR
CHECKED BY: RZ
DRAWN BY: GRD

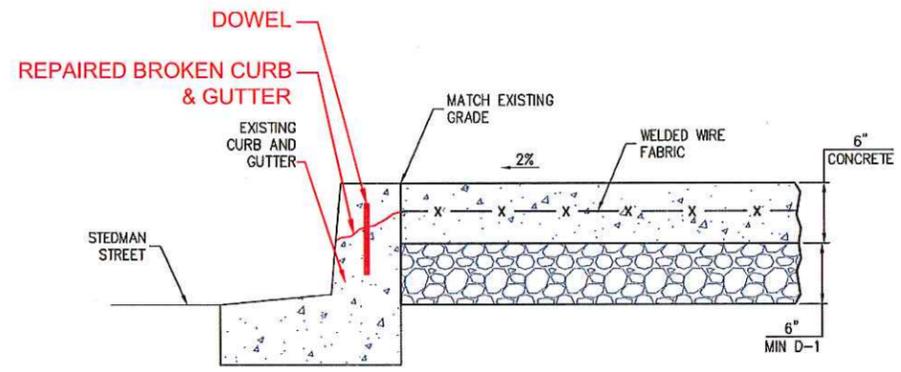
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION
KETCHIKAN: WATER STREET SIDEWALK IMPROVEMENTS PROJECT No. 68162

DECKING AND HANDRAIL DETAILS

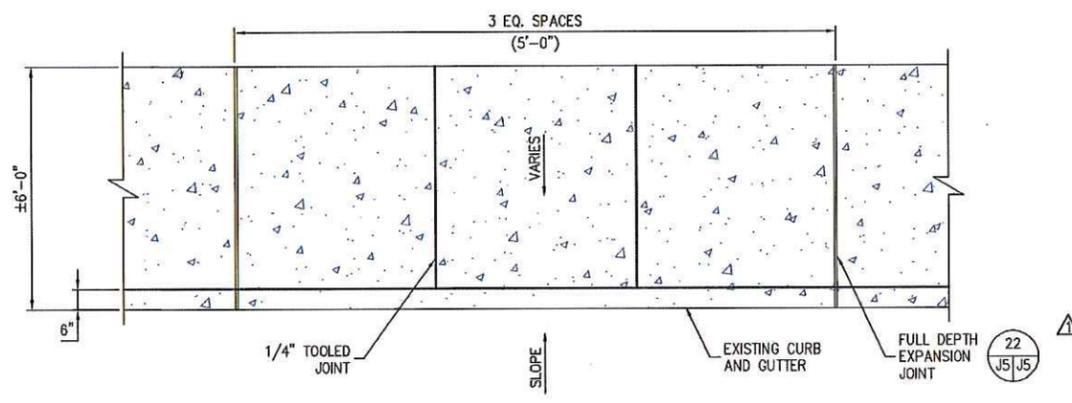
PROJECT DESIGNATION
STP-0902(037)

STATE: ALASKA
YEAR: 2013

SHEET NUMBER: J4
TOTAL SHEETS: 23

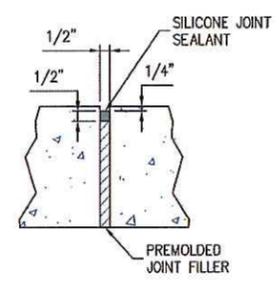


18
B2|J5 **6"t CONCRETE SIDEWALK**



21
F3|J5 **SIDEWALK JOINT SPACING**

NOTE:
ALL CONCRETE SURFACES SHALL BE COMPLETED WITH A HEAVY BROOM FINISH PER ADOT 501-3.09.



22
J5|J5 **FULL DEPTH EXPANSION JOINT** ▲

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: DR DATE: 1/21/14

| REVISIONS | REV | DATE | DESCRIPTION |
|-----------|-----|--------|-------------------------|
| | 1 | 2/7/14 | ADD BID AMENDA TO PLANS |

DESIGNED BY: SR

CHECKED BY: RZ
DRAWN BY: GRD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION SOUTH/EAST REGION

**KETCHIKAN:
WATER STREET
SIDEWALK
IMPROVEMENTS
PROJECT No. 68162**

**SIDEWALK
DETAILS**

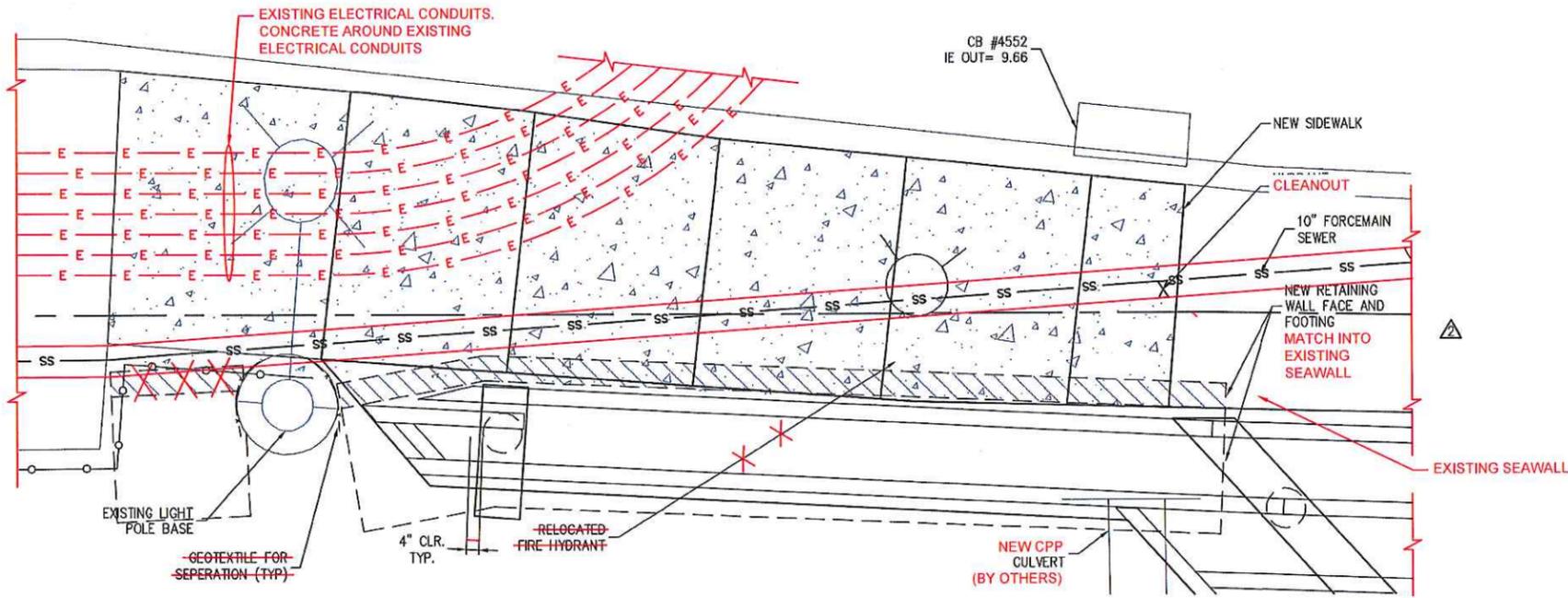
PROJECT DESIGNATION
STP-0902(037)

| | |
|---------------|-------------|
| STATE | YEAR |
| ALASKA | 2013 |

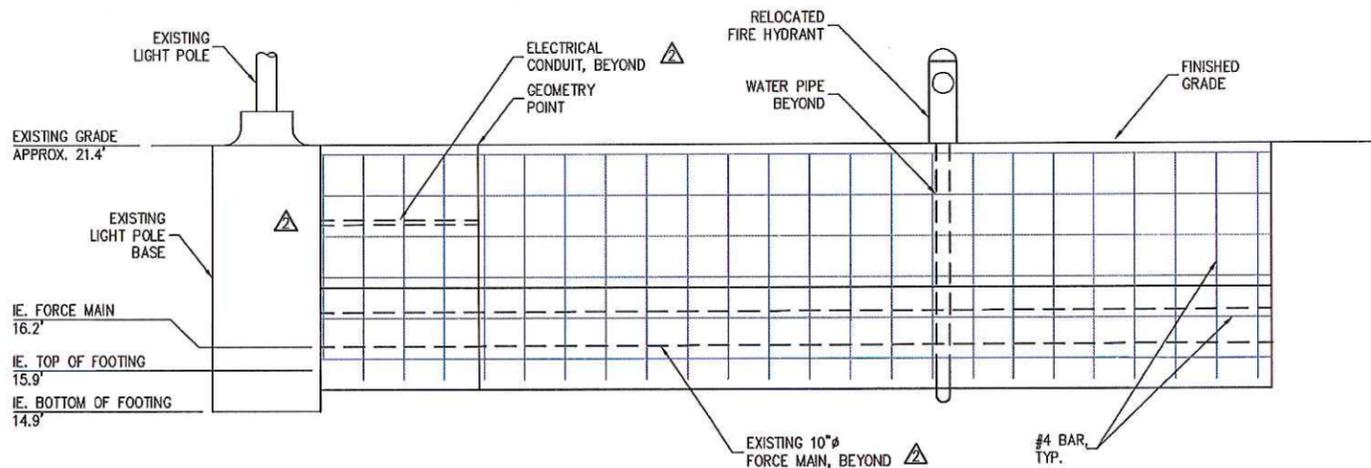
| | |
|--------------|--------------|
| SHEET NUMBER | TOTAL SHEETS |
| J5 | 23 |

4/22/14 Drawings 2012\124053.01 - Ketchikan Waterfront Promenade Phase III\FC-REV\124053.01-15.dwg

4/22/14 Drawings\2012\24053.01 - Ketchikan Waterfront Promenade Phase III\F4\REV\24053.01-16.dwg



PLAN



ELEVATION

24
F4 J6

| REV | DATE | DESCRIPTION |
|-----|------|--------------------------|
| 3 | 3/74 | RETAINING WALL REDSIGN |
| 2 | 2/74 | RETAINING WALL REDSIGN |
| 1 | 2/74 | ADD BID AGENCIA TO PLANS |

DESIGNED BY: SR



CHECKED BY: RZ

DRAWN BY: GRD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

**KETCHIKAN:
WATER STREET
SIDEWALK
IMPROVEMENTS
PROJECT No. 68162**

**NORTH
RETAINING
WALL PLAN AND
ELEVATION**

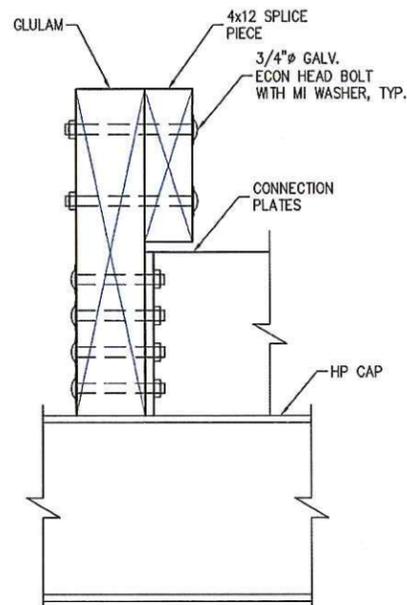
PROJECT DESIGNATION
STP-0902(037)

STATE YEAR
ALASKA 2013

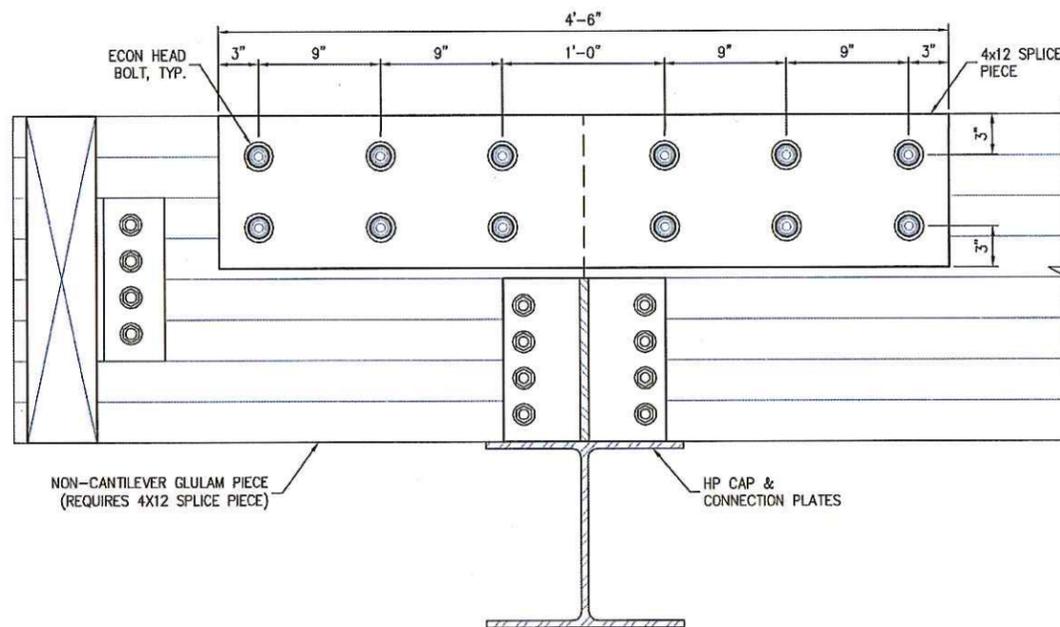
SHEET NUMBER TOTAL SHEETS
J6 23

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: DR DATE: 1/20/16

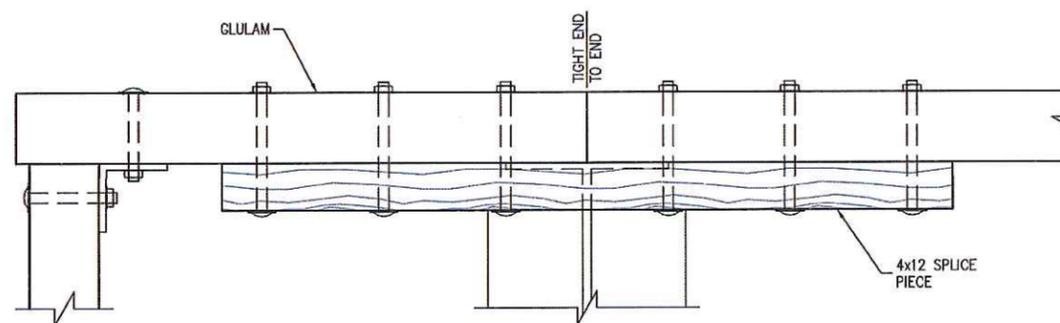
4/22/14 Drawings\2012\124053.01 - Ketchikan Waterfront Promenade Phase III\FCC.REV\5\124053.01-7.dwg



SECTION



PROFILE



PLAN

26
F5/J7

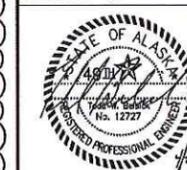
GLULAM SPLICE

AT CAP 2, 7, AND 12

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: DR DATE: 1/21/16

| REV | DATE | DESCRIPTION |
|-----|------|-----------------------|
| 5 | 3/14 | GLULAM SPLICE DETAILS |

DESIGNED BY: SR



CHECKED BY: RZ

DRAWN BY: GRD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

**KETCHIKAN:
WATER STREET
SIDEWALK
IMPROVEMENTS
PROJECT No. 68162**

**GLULAM SPLICE
DETAILS**

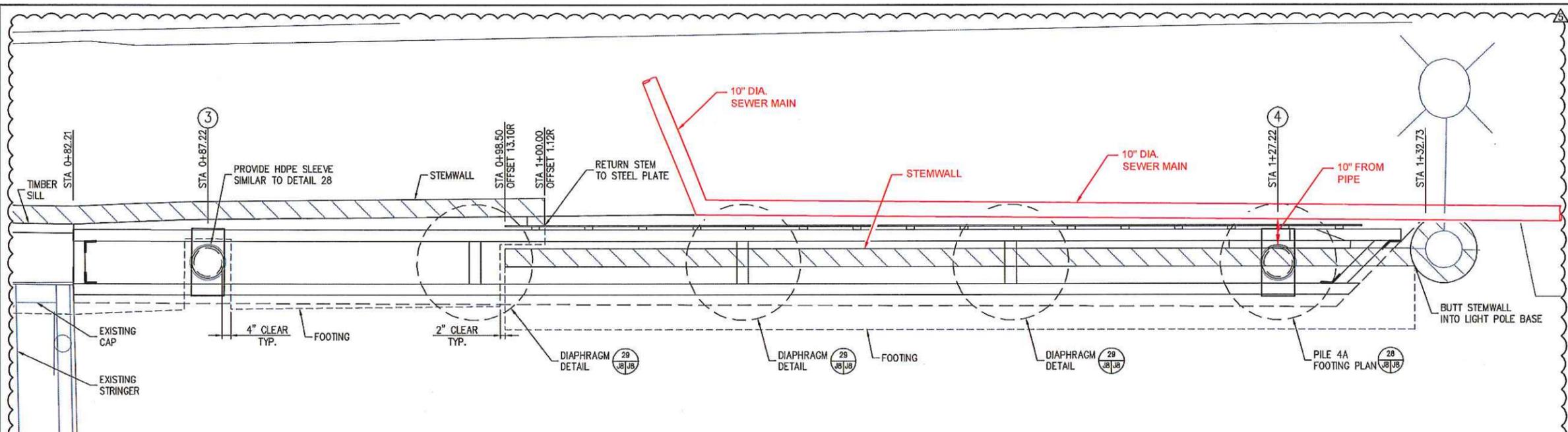
PROJECT DESIGNATION

STP-0902(037)

| | |
|---------------|-------------|
| STATE | YEAR |
| ALASKA | 2013 |

| | |
|--------------|--------------|
| SHEET NUMBER | TOTAL SHEETS |
| J7 | 23 |

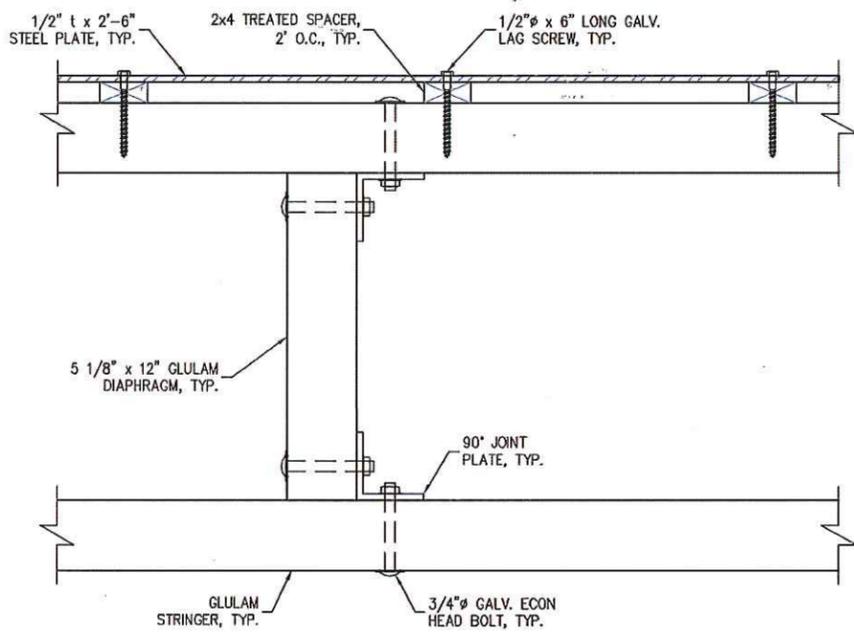
J7 23



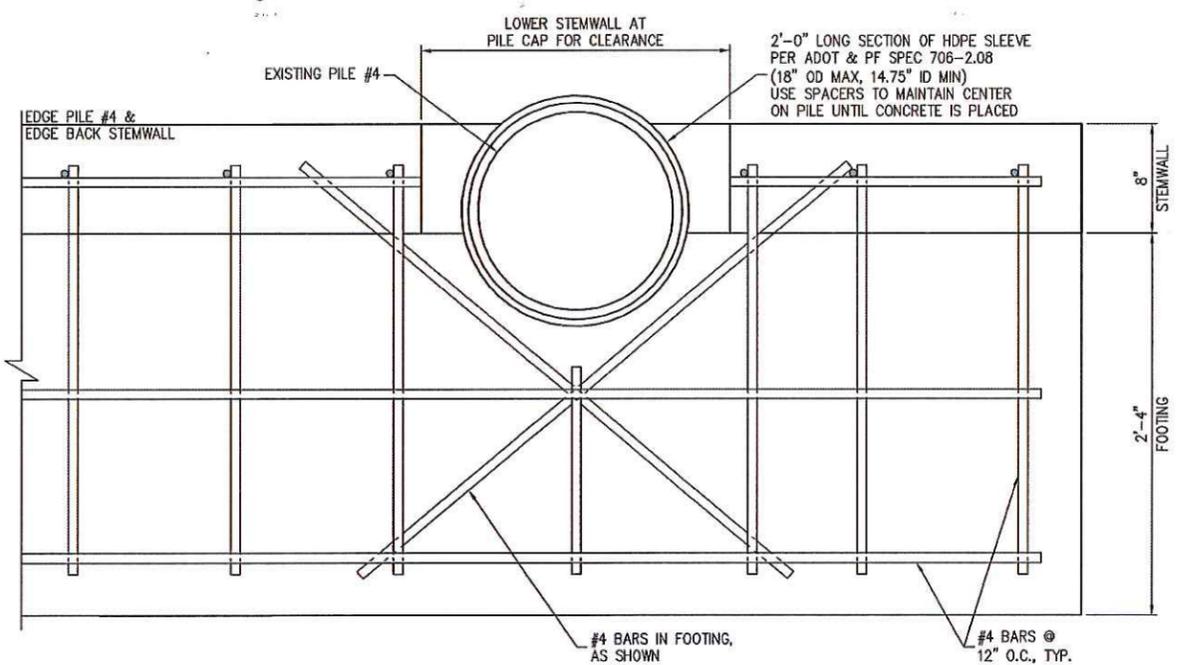
RETAINING WALL AND FRAMING PLAN

27
F5 JB

PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
PE: DR DATE: 1/21/16



29
JB JB
DIAPHRAGM DETAIL



28
JB JB
PILE 4A FOOTING PLAN

| REV | DATE | DESCRIPTION |
|-----|------|--------------------------|
| 5 | 3/14 | RETAINING WALL SECTION D |

| | |
|--------------|-----|
| DESIGNED BY: | SR |
| CHECKED BY: | RZ |
| DRAWN BY: | GRD |

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

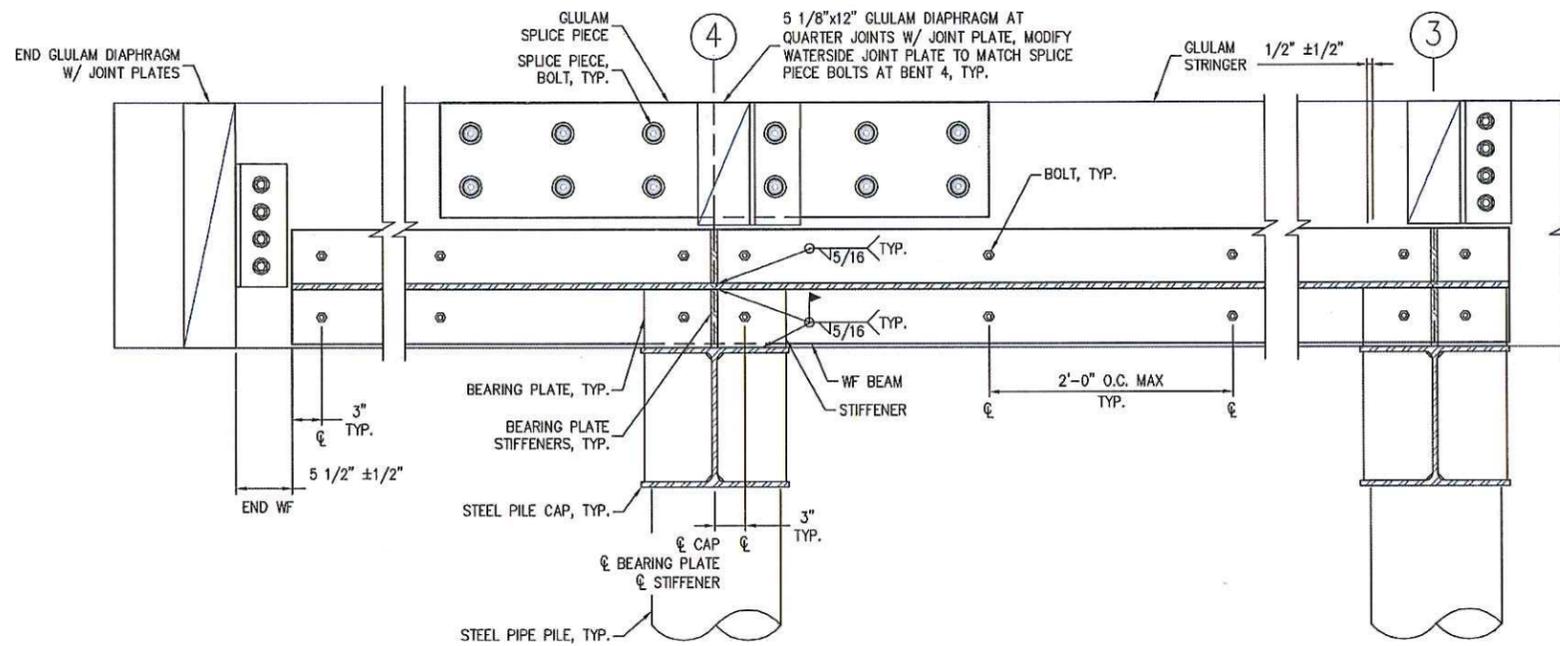
KETCHIKAN: WATER STREET SIDEWALK IMPROVEMENTS PROJECT No. 68162

RETAINING WALL SECTION D DETAILS SHEET 1

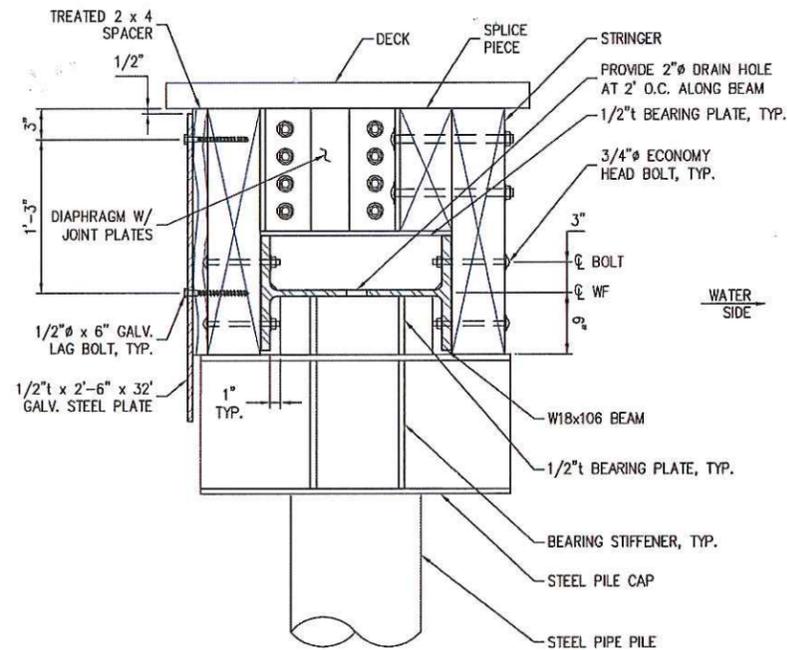
PROJECT DESIGNATION
STP-0902(037)

| | |
|--------------|--------------|
| STATE | YEAR |
| ALASKA | 2013 |
| SHEET NUMBER | TOTAL SHEETS |
| J8 | 23 |

4/22/14 Drawings\2012\124053.01 - Ketchikan Waterfront Promenade Phase III\F.C.REV\124053.01 - JB.dwg



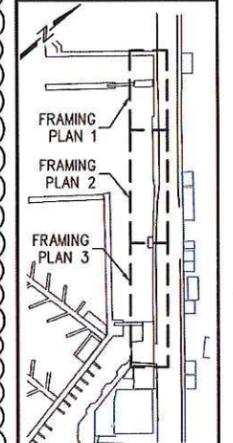
PARTIAL ELEVATION
WATER SIDE STRINGER SHOWN



SECTION AT BENT 4
STEEL BEAM

30
B2 J9

| REVISIONS | DATE | DESCRIPTION |
|-----------|------|--------------------------|
| 5 | 3/14 | RETAINING WALL SECTION D |



DESIGNED BY: SR

CHECKED BY: RZ
DRAWN BY: GRD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

**KETCHIKAN:
WATER STREET
SIDEWALK
IMPROVEMENTS
PROJECT No. 68162**

**RETAINING
WALL
SECTION D
DETAILS
SHEET 2**

PROJECT DESIGNATION
STP-0902(037)

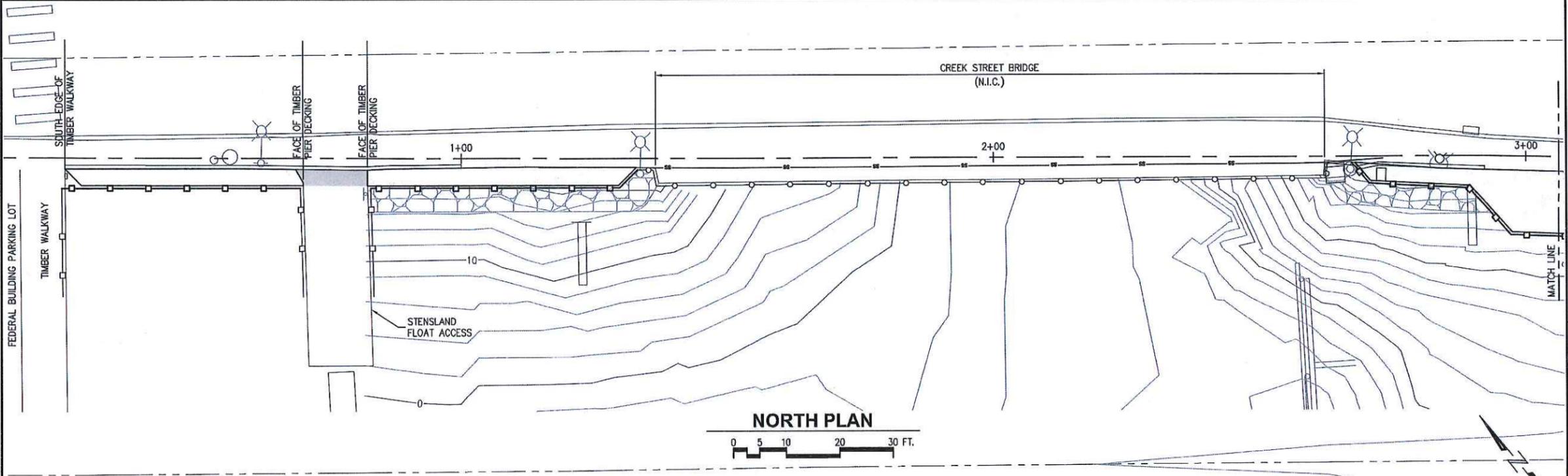
| | |
|---------------|-------------|
| STATE | YEAR |
| ALASKA | 2013 |

| | |
|--------------|--------------|
| SHEET NUMBER | TOTAL SHEETS |
| J9 | 23 |

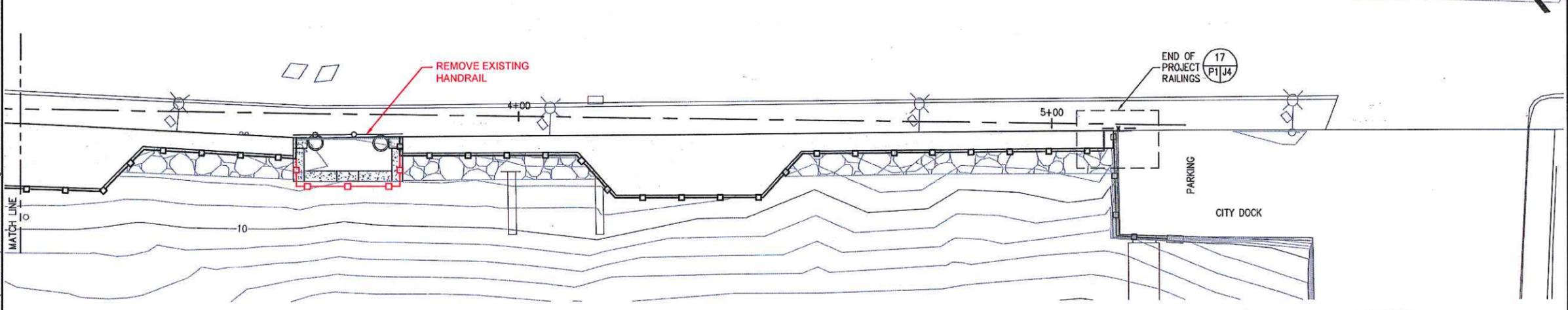
PROJECT AS-BUILT DRAWINGS HAVE
BEEN REVIEWED BY THE PROJECT
ENGINEER AND REPRESENT TO THE
BEST OF MY KNOWLEDGE THE
PROJECT AS CONSTRUCTED.
PE: *[Signature]* DATE: *1/21/16*

4/22/14 Drawings_2012\124053.01 - Ketchikan Waterfront Promenade Phase III\FC-REV\5\124053.01-J9.dwg

4/22/14 Drawings 2012\124053.01 - Ketchikan Waterfront Promenade Phase III (R.C. REV'S)\124053.01-P1.dwg



NORTH PLAN



SOUTH PLAN

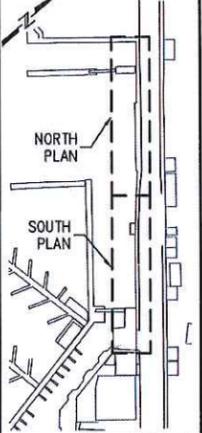
PROJECT AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER AND REPRESENT TO THE BEST OF MY KNOWLEDGE THE PROJECT AS CONSTRUCTED.
 PE: REL DATE: 1/21/16

NOTES:
 EXISTING STEEL HANDRAIL INDICATED IN DRAWINGS SHALL BE SALVAGED DURING DEMOLITION.

LEGEND

- PROPOSED TIMBER HANDRAIL TYPE A
- x— PROPOSED TIMBER HANDRAIL TYPE B
- EXISTING TIMBER HANDRAIL
- EXISTING STEEL HANDRAIL
- TIMBER PILE
- ELECTRICAL VENT
- CATCH BASIN
- 7-7- Ecology BLOCK
- Fire HYDRANT
- ◇ UTILITY VAULT
- ⊗ STREET LIGHT

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |



DESIGNED BY: SR

CHECKED BY: RZ
 DRAWN BY: GRD

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

**KETCHIKAN:
 WATER STREET
 SIDEWALK
 IMPROVEMENTS
 PROJECT No. 68162**

RAILING PLAN

| | |
|---------------------|--------------|
| PROJECT DESIGNATION | |
| STP-0902(037) | |
| STATE | YEAR |
| ALASKA | 2013 |
| SHEET NUMBER | TOTAL SHEETS |
| P1 | 23 |

