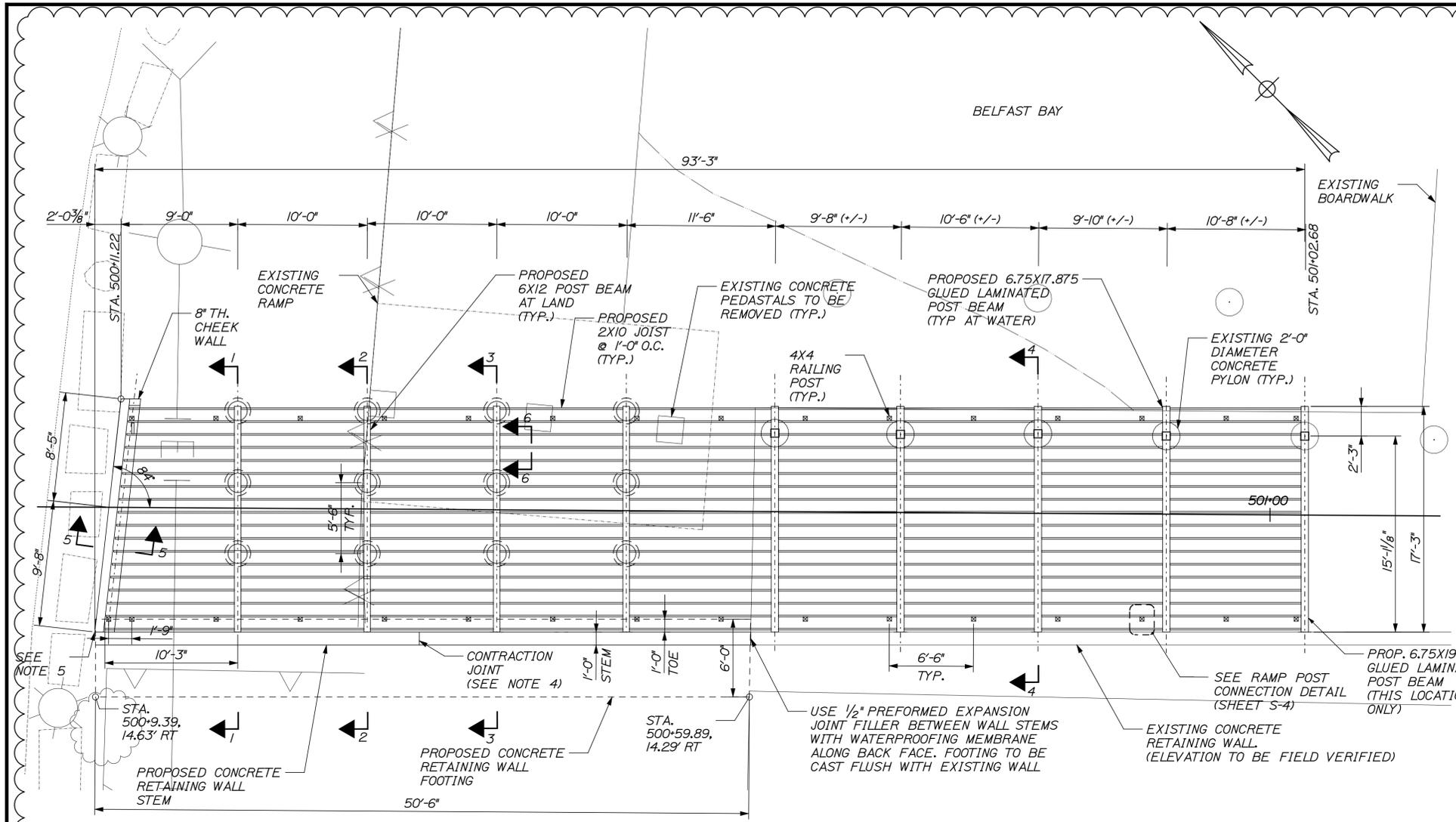


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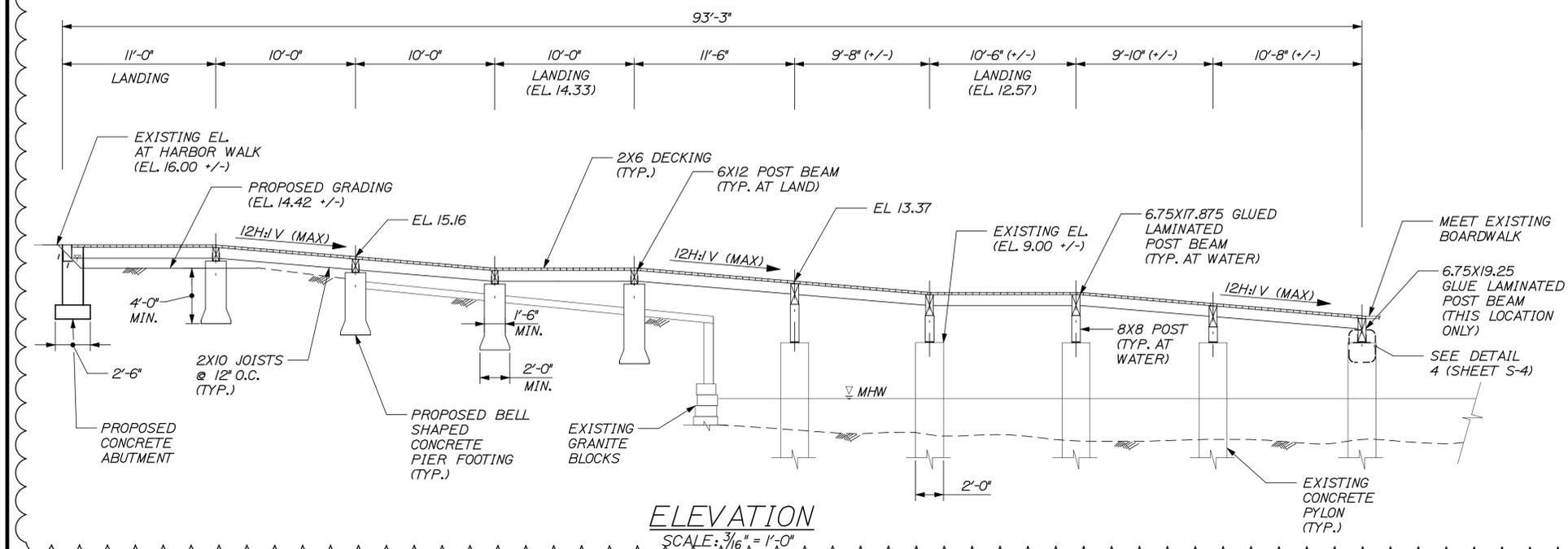
Username: pmcclure

Division: HIGHWAY

Filename: ...msta\S1_Plan & Elevation.dgn



PLAN
SCALE: 3/16" = 1'-0"



ELEVATION
SCALE: 3/16" = 1'-0"

GENERAL NOTES:

- DO NOT SCALE DRAWINGS FOR DIMENSIONS NOT SHOWN. CONTRACTOR IS REQUIRED TO VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS. ANY DISCREPANCY SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT THE LOCATION OF PROPOSED CONSTRUCTION PRIOR TO THE COMMENCEMENT OF ANY WORK.
- COORDINATE STRUCTURAL DRAWINGS WITH LANDSCAPE AND CIVIL DRAWINGS FOR CLEARANCES, DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION WORK.
- DESIGN METHODOLOGY:
 - WORKING STRESS DESIGN
- DESIGN SPECIFICATIONS:
 - INTERNATIONAL BUILDING CODE 2009
 - ASCE/SEI 7-05 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION 2005.
- LOADING:
 - DEAD LOAD = 12 PSF
 - LIVE LOAD = 100 PSF
- MATERIALS:
 - ALL WOOD SHALL BE PRESSURE TREATED SOUTHERN PINE - SELECT STRUCTURAL GRADE S4S, WITH A TABULATED UNIT STRESS IN BENDING, $F_b = 1,500$ PSI. PRESSURE TREATMENT SHALL CONFORM TO CURRENT AWPA STANDARDS AND USE AN ALKALINE COPPER QUATERNARY (ACQ-D) PRESSURE TREATMENT. CONTRACTOR SHALL APPLY TWO (2) COATS OF AN END CUT SOLUTION ON ALL CUT ENDS AND DRILLED HOLES TO PRESERVE THE INTEGRITY OF THE PRESSURE TREATMENT.
 - ALL STRUCTURAL GLUE LAMINATED WOOD SHALL BE 24F-V3 SP/SP.
 - FASTENERS.
 - DECK SCREWS - #10 X 3", 316 STAINLESS STEEL WITH TYPE 17 POINT.
 - BOLTS - ASTM A307, GRADE A BOLT, GALVANIZED IN ACCORDANCE WITH ASTM A153 OR ASTM B695. NUTS SHALL BE ASTM A 563. WASHERS SHALL BE ROUND, CAST OR MALLEABLE IRON.
 - CONCRETE ANCHORS - CONCRETE ANCHORS SHALL BE POST-DRILLED UNDERCUT EXPANSION OR ADHESIVE TYPE ANCHORS OR CAST-IN-PLACE THREADED ANCHOR RODS. ALL ANCHORS SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL. REFER TO SPECIAL PROVISION, SECTION 528.
 - PRE-ENGINEERED HANGERS - ALL HARDWARE SHALL BE GALVANIZED WITH SELF-TAPPING HEX CAP WOOD SCREW FASTENERS MEETING THE SIZE AND QUANTITY REQUIREMENTS PER THE MANUFACTURER'S SPECIFICATIONS. REFER TO SPECIAL PROVISION, SECTION 528.
 - ALL CONCRETE SHALL BE CLASS A WITH CALCIUM NITRITE COROSION INHIBITOR.
 - ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS, $F'_c = 4350$ PSI.
 - ALL REINFORCING STEEL AND DOWELS SHALL BE EPOXY COATED DEFORMED BILLET STEEL ASTM A615, GRADE 60.
 - ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 AND SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS OTHERWISE NOTED.
- CONNECTIONS:

THE FOLLOWING ARE THE MINIMUM CONNECTION REQUIREMENTS TO BE PROVIDED. ALL CONNECTIONS SHALL MEET THE REQUIREMENTS OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

 - DECKING - PROVIDE AT LEAST 2 SCREWS AT EACH JOIST
 - PRE-ENGINEERED HANGERS SHALL PROVIDE THE FOLLOWING MINIMUM ALLOWABLE LOAD CAPACITIES:
FLOOR JOISTS TO POST BEAMS 950 LBS

NOTES:

- PROPOSED RAILING NOT SHOWN FOR CLARITY. REFER TO LANDSCAPE DRAWINGS FOR DETAILS.
- PROPOSED HARBOR WALK NOT SHOWN FOR CLARITY. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR DETAILS.
- FOR SECTIONS AND DETAILS, SEE SHEETS S-2 THROUGH S-4.
- CONTRACTION JOINTS SHALL BE PROVIDED IN PROPOSED CONCRETE RETAINING WALL IN ACCORDANCE WITH STANDARD DETAIL 502(01) AT INTERVALS NOT EXCEEDING 30'-0".
- ABUTMENT SHALL BE CAST FLUSH WITH PROPOSED RETAINING WALL STEM. USE 1/2" PREFORMED EXPANSION JOINT FILLER BETWEEN ABUTMENT AND WALL STEM.
- HORIZONTAL CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH STANDARD DETAIL 502(01) OR RAKE FINISHED TO 1/4" NOMINAL AMPLITUDE.

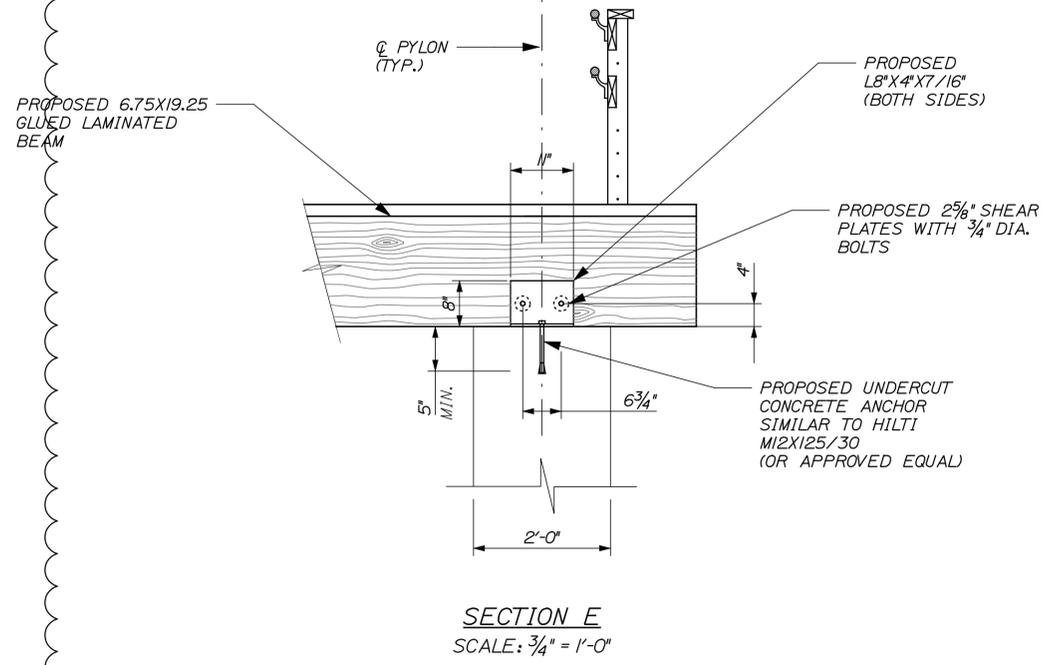
CITY OF BELFAST, MAINE		STP-1760(200)X		17602.00		HIGHWAY PLANS	
STATE OF MAINE		REGISTERED PROFESSIONAL ENGINEER		JOSHUA K. BLUND		No. 12130	
SIGNATURE		12130		P.E. NUMBER		03/08/2013	
DATE		3/13		DATE		3/13	
BY		K. Rozonsky		BY		T. Errico	
CHECKED-REVIEWED		J. Oland		CHECKED-REVIEWED		K. Rozonsky	
DESIGN-DETAILED		J. Oland		DESIGN-DETAILED		J. Oland	
REVISIONS 1		Live Load Change		REVISIONS 1		Live Load Change	
REVISIONS 2				REVISIONS 2			
REVISIONS 3				REVISIONS 3			
REVISIONS 4				REVISIONS 4			
FIELD CHANGES				FIELD CHANGES			
BELFAST HARBOR WALK				PLAN AND ELEVATION			
SHEET NUMBER				S-1			
				OF			
TYLIN INTERNATIONAL							

Date: 3/8/2013

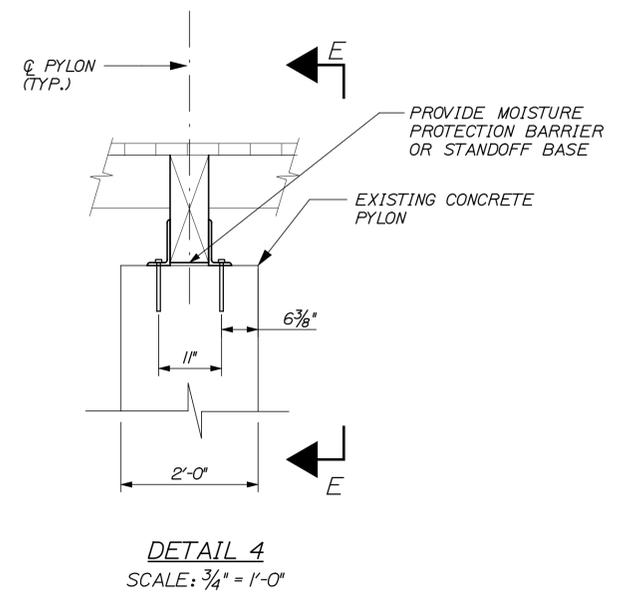
Username: pmcclure

Division: HIGHWAY

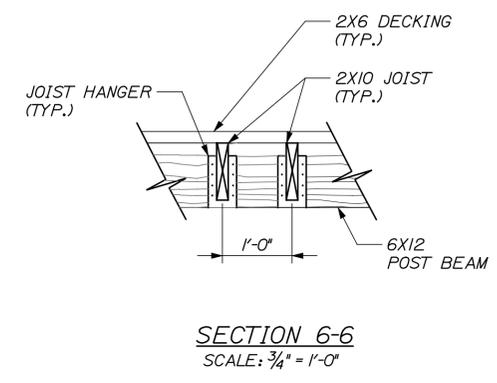
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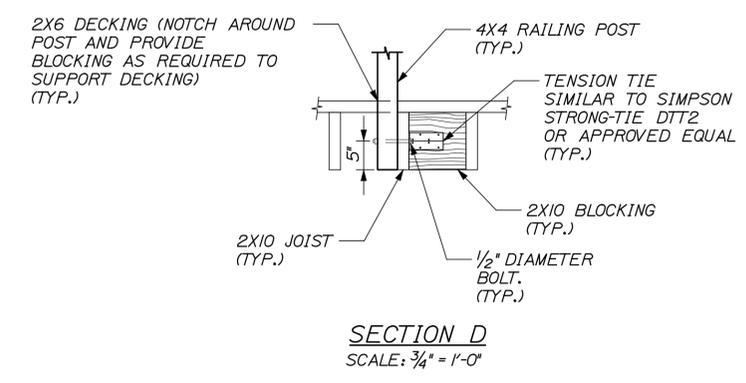
SECTION E
SCALE: 3/4" = 1'-0"



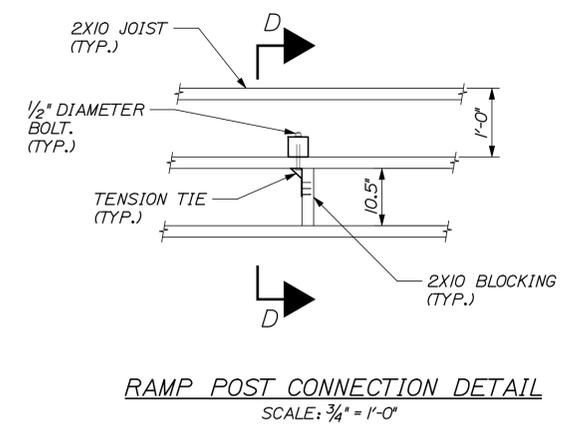
DETAIL 4
SCALE: 3/4" = 1'-0"



SECTION 6-6
SCALE: 3/4" = 1'-0"



SECTION D
SCALE: 3/4" = 1'-0"



RAMP POST CONNECTION DETAIL
SCALE: 3/4" = 1'-0"

NOTES

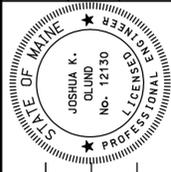
1. FOR GENERAL NOTES AND MATERIAL SPECIFICATIONS, SEE DRAWING S-1.
2. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL ELEVATIONS AND DIMENSIONS SHOWN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.
3. CONTRACTOR IS REQUIRED TO SUBMIT ALL WOOD CONSTRUCTION CONNECTIONS AND FASTENERS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
4. PROPOSED DECKING SHALL SPAN THE FULL WIDTH OF THE PROPOSED RAMP. DECKING LENGTHS SHALL NOT BE SHORTER THAN REQUIRED DECK WIDTH SHOWN.

CITY OF BELFAST, MAINE

STP-1760(200)X

HIGHWAY PLANS

17602.00



Signature: *Joshua K. Blund*
 SIGNATURE: JOSHUA K. BLUND
 No. 12130
 P.E. NUMBER: 12130
 DATE: 03/08/2013

PROJ. MANAGER	T. Errico	DATE	3/13
DESIGN-DETAILED	K. Rozansky	BY	J. O'Neil
CHECKED-REVIEWED	J. O'Neil	DATE	3/13
DESIGN-DETAILED	J. O'Neil	BY	J. O'Neil
REVISIONS 1	Live Load Change	DATE	3/13
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BELFAST HARBOR WALK

SECTION AND DETAILS - 3 -

SHEET NUMBER

S-4

OF

