

Erie Canal Park and Preserve Boardwalk and Bridge Construction

Town of Pittsford, New York
Department of Public Works

Commissioner of Public Works
Paul Schenkel

Issue Date:
February 13, 2020

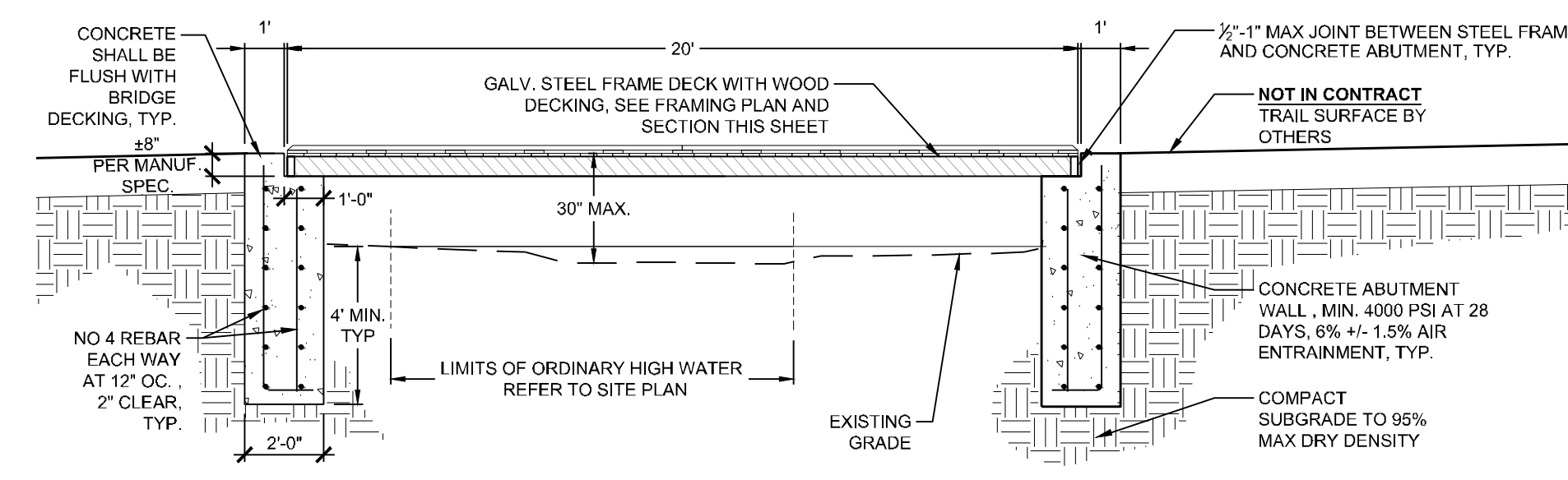
No.	Date	Revision
1	2/25/20	Revised Detail

BID DOCUMENTS

NOT FOR CONSTRUCTION

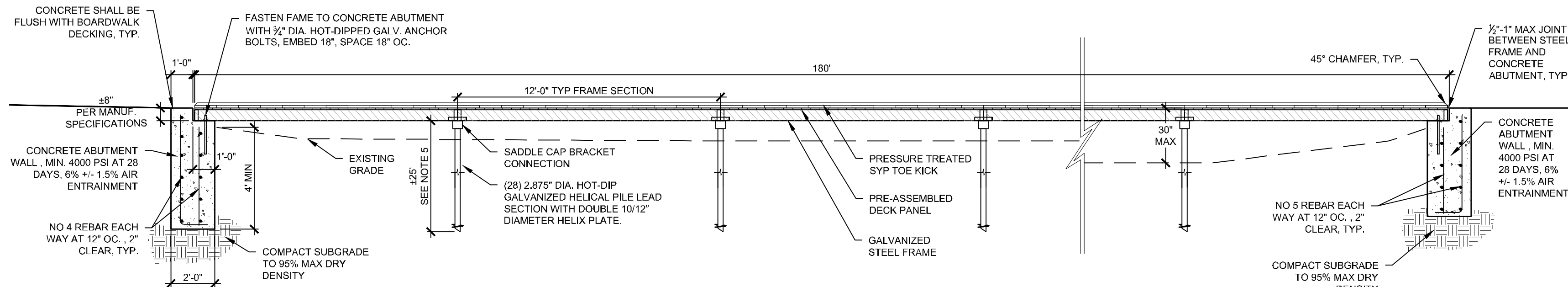
Typical Construction Details

3.0



3 PEDESTRIAN BRIDGE PROFILE

1/4"=1'-0"

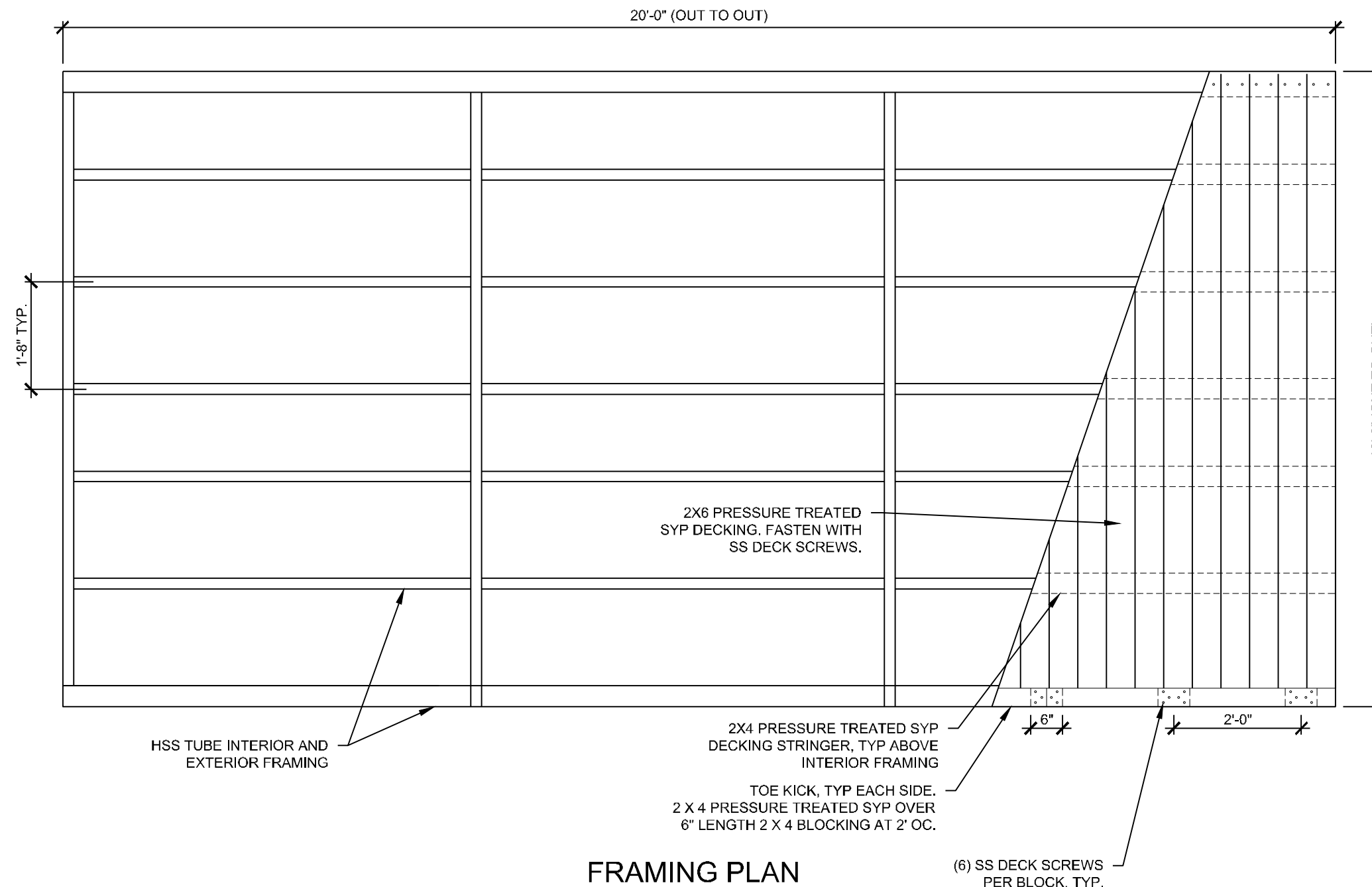


1 MODULAR BOARDWALK PROFILE

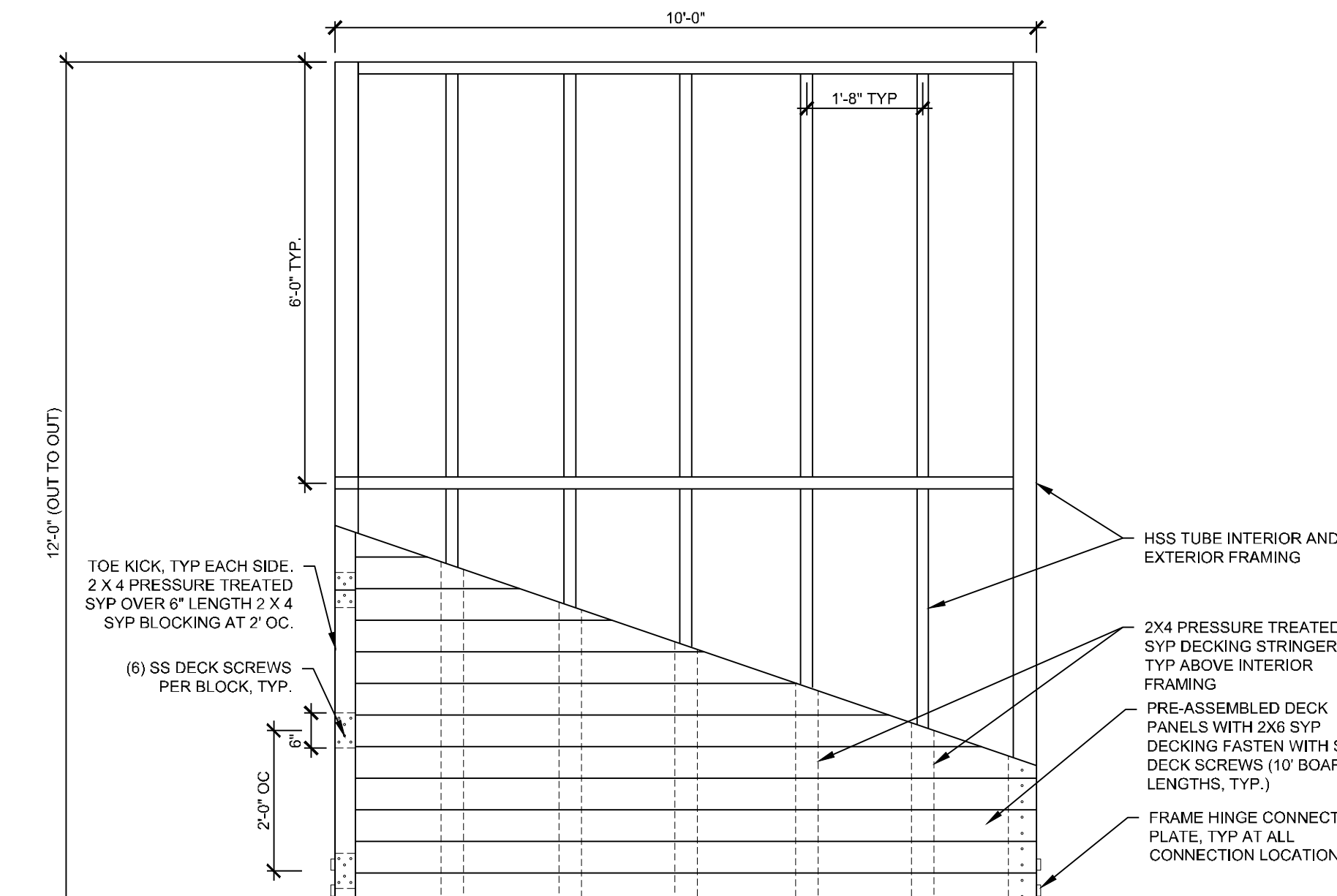
1/4"=1'-0"

BOARDWALK AND BRIDGE DESIGN NOTES

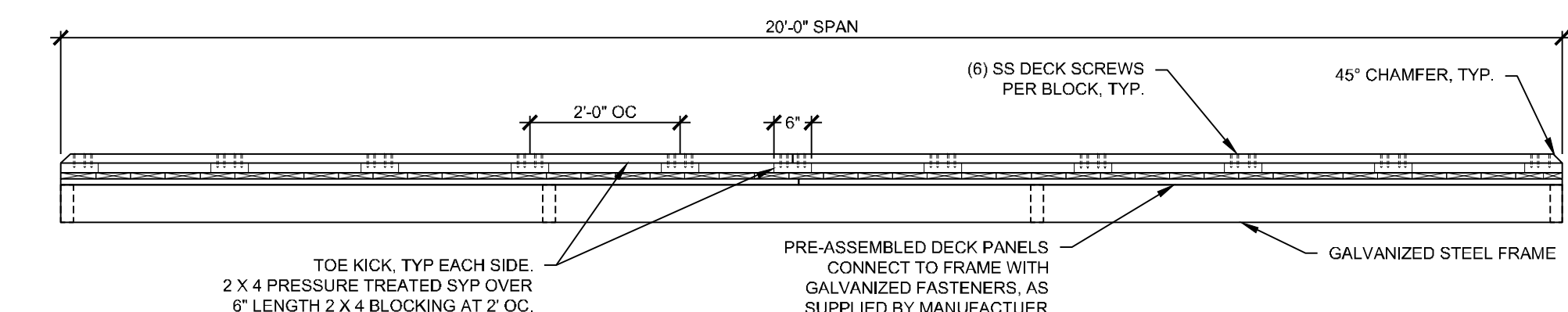
- MODULAR BRIDGE AND BOARDWALK SHALL BE AS MANUFACTURED BY:
 - MODULAR TRAIL STRUCTURES 608-699-9277 MODULARTRAILSTRUCTURES.COM OR APPROVED EQUAL.
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING FINAL ENGINEERING DRAWINGS FOR THE BOARDWALK AND HELICAL PILE FOUNDATION AND PEDESTRIAN BRIDGE. FABRICATION DRAWINGS MUST BE STAMPED BY A LICENSED ENGINEER IN THE STATE OF NEW YORK.
- ENGINEERED FABRICATION DRAWINGS SHALL MATCH DIMENSIONS AS SHOWN. PROPOSED MODIFICATIONS MUST BE APPROVED.
- DESIGN LOADS:
 - PEDESTRIAN LIVE LOAD: 100LB/SF
 - LATERAL WIND LOAD: 90 MPH WIND SPEED
 - MAX DEFLECTION: 1/360
- HELICAL PILES:
 - PILE LOCATIONS SHALL BE MARKED FOR APPROVAL PRIOR TO INSTALLATION.
 - SWAMP MATS ARE REQUIRED FOR ANY EQUIPMENT ENTERING THE WETLANDS.
 - HELICAL PILES SHALL BE DRIVEN TO THE POINT OF REFUSAL DEPTH. REFER TO SOIL REPORT FOR SUBSURFACE SOIL CONDITIONS.
 - PILES SHALL BE AS MANUFACTURED BY: IDEAL GROUP (585-872-7190) OR APPROVED EQUAL.
 - SHAFT SHALL MEET OR EXCEED REQUIREMENTS OF ASTM A500, 80KSI
 - HELIX TO MEET OR EXCEED REQUIREMENTS OF ASTM A572/A1018/A656, 50KSI
 - LEADING EDGE OF HELICES SHALL BE TAPERED.
 - ALL WELDING SHALL BE PERFORMED BY SHOP QUALIFIED WELDERS TO AWS D1.1 STRUCTURAL WELDING CODE - STEEL.
 - PILES SHALL BE HOT DIP GALVANIZED PER ASTM A153/ASTM A123
- SADDLE BRACKET
 - STEEL SADDLE BRACKET CONNECTS BOARDWALK FRAME TO HELICAL PILE.
 - BRACKET SHALL HAVE A MINIMUM TOLERANCE OF 5" LONGITUDINALLY AND ±1/2" WIDTH WISE
 - BRACKET TO BE FASTENED WITH HOT DIP GALVANIZED BOLTS PER MANUFACTURER SPECIFICATION BASED ON DESIGN LOAD.
- FRAME
 - FRAME SHALL BE FABRICATED WITH STRUCTURAL STEEL.
 - BEAM SIZE SHALL BE DETERMINED BY ENGINEER BASED ON DESIGN LOADS.
 - FRAME LENGTH AND WIDTH, AS NOTED. ALL WELDING SHALL BE PERFORMED BY SHOP QUALIFIED WELDERS TO AWS D1.1 STRUCTURAL WELDING CODE - STEEL.
 - FRAME TO BE HOT DIPPED GALVANIZED.
- FRAME HINGE CONNECTION
 - HINGE SHALL BE LOAD BEARING
 - HINGE SHALL BE CONCEALED AND NOT VISIBLE AFTER INSTALLATION TO PREVENT VANDALISM
- DECKING
 - DECKING MATERIAL SHALL BE AS SPECIFIED
 - ALL LUMBER SHALL BE KILN DRIED #1 PRESSURE TREATED SOUTHERN YELLOW PINE.
 - DECKING MODULES SHALL ARRIVE AT INSTALLATION SITE PREFABRICATED IN ONE PIECE.
 - NO DECK BOARD SHALL BE INSTALLED ON SITE.
- CONTRACTOR SHALL PROVIDE PROJECT RECORD DOCUMENTS TO OWNER UPON COMPLETION.



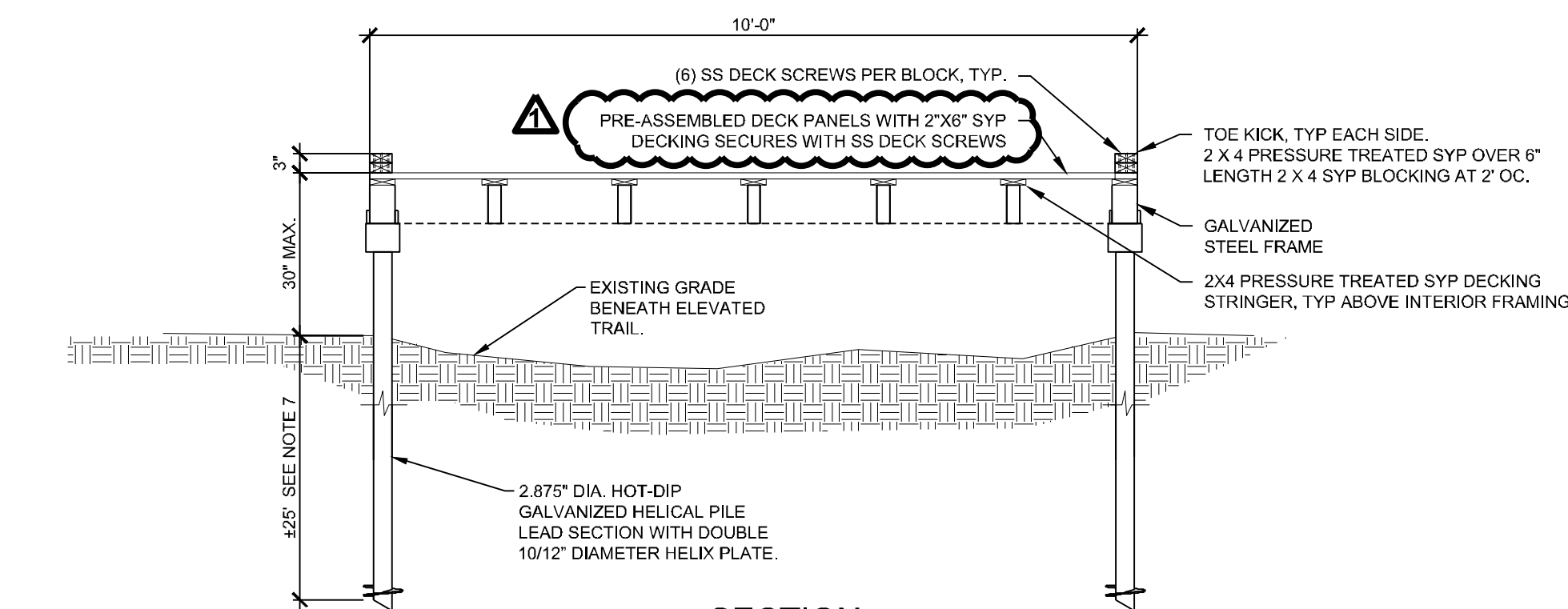
FRAMING PLAN



FRAMING PLAN



SECTION



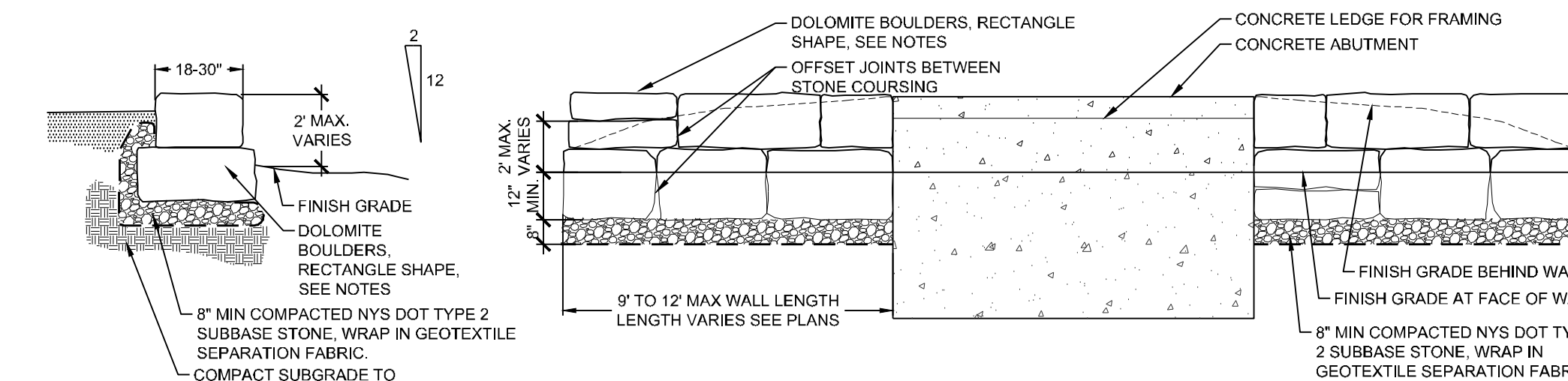
SECTION

4 PEDESTRIAN BRIDGE DETAILS

1/2"=1'-0"

2 MODULAR BOARDWALK DETAILS

1/2"=1'-0"



5 TYPICAL STONE WING WALL

1/4"=1'-0"

- NOTES:
- STONE MATERIALS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO SITE.
 - BOULDER DIMENSIONS SHALL BE

WIDTH	18-30"
LENGTH	36-60"
HEIGHT	18-24"

- CONSTRUCTION NOTES:
- MASON SHALL USE LARGEST STONES AS FOUNDATION STONES AT THE BASE OF THE WALLS.
 - STONES SHALL BE SET WITH THE LENGTH OF THE STONE PERPENDICULAR TO THE WALL, EXPOSING STONE ENDS.
 - INTERIOR GAPS IN EACH WALL COURSE SHALL BE FILLED WITH SMALLER STONES BEFORE BEGINNING THE NEXT COURSE.
 - VERTICAL JOINTS SHALL BE STAGGERED, NOT RUNNING OR STACKED ALONG THE FACE OF THE WALL.
 - FACE OF WALL SHALL HAVE MIN BATTER OF 2:12