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COMPANY: MAGNUM GEOSOLUTIONS, LLC
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PROJECT NAME:
 PROJECT DESCRIPTION
 STREET ADDRESS
 CITY, STATE

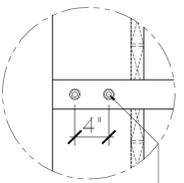
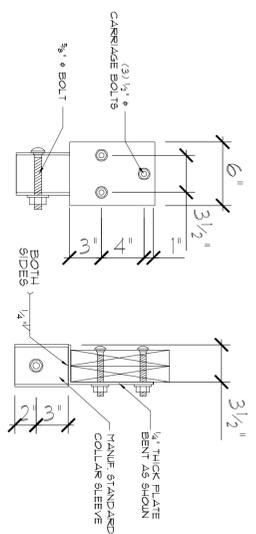
CLIENT:
 YOUR COMPANY
 NAME
 STREET ADDRESS
 CITY, STATE
 Contact: Your Name
 Your Number

NO.	DATE	REVISION/ISSUE

HELICAL PILE LAYOUT & DETAILS

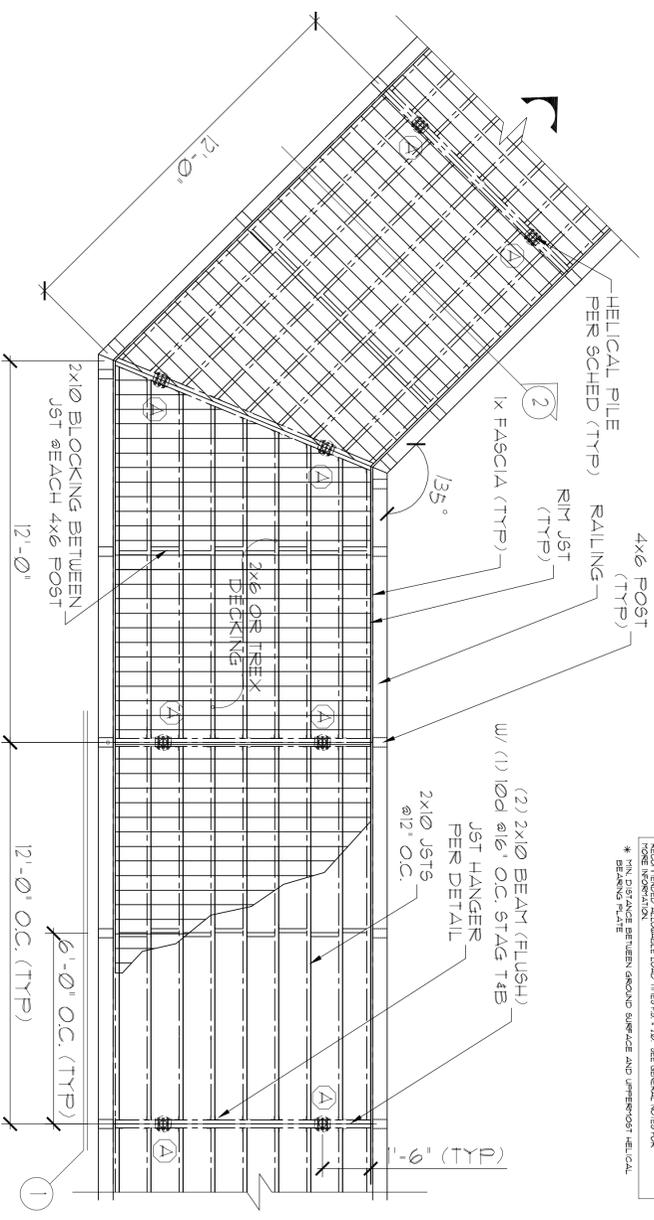
General Notes:

- Codes:**
 This plan was prepared based on 2003 IBC codes and portions of the most recent versions of AISI Steel Construction Manual and the NDS for wood construction.
- Loads:**
 This plan is based upon the following load parameters (provided by CIVIL):
 Deadload: Live Load = 60 psf
 Handrail: Live Load = 50 plf, Live Point Load = 200 lb
 Wind: Speed = 90 mph Exposure C
 Seismic: Zone A
- Material:**
 This plan is based upon the following material properties:
 Lumber: All dimensional lumber shall be pressure treated Spruce-Pine-Fir (South #1 or better) unless noted on the plan.
 Fasteners and connectors: In contact with pressure treated lumber shall be CDS or type 316 stainless steel or ACO approved. All carriage bolts to be A307 A307 or better.
- Helical Piles:**
 All Helix Foundation piles shall be 3" O.D. with 8" wall thickness. The number and size of blades shall be per the installation contractor so as to achieve appropriate installation torque and capacity. All pier components shall be hot dip zinc galvanized per ASTM 123 or B52. Helix pier installation should be observed by a geotechnical engineer to verify installation torque and minimum depth. Provide a minimum of 12" of embedment into the existing foundation. The manufacturer's recommendation should be followed regarding the torque and bearing capacity relationship for the particular helix pier selected.
- Framing:**
 All framing shall be in accordance with the provisions of applicable building code. All connections or members not shown are per code or the general contractor. Provide solid blocking to transmit loads to the foundation as necessary. Refer to the code for additional requirements.
- Limitations:**
 This plan is only a foundation and framing design. It is the contractor/owner's responsibility to verify and coordinate all dimensions prior to construction. This plan is based on the above referenced specifications. Any discrepancies or changes should be brought to the attention of the engineer.



DETAIL A

DETAIL B

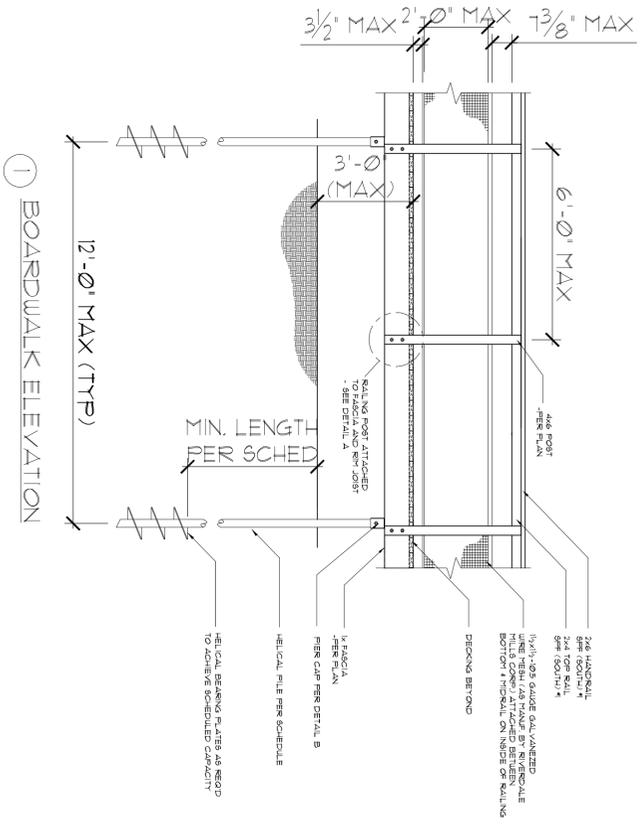


BOARDWALK PLAN

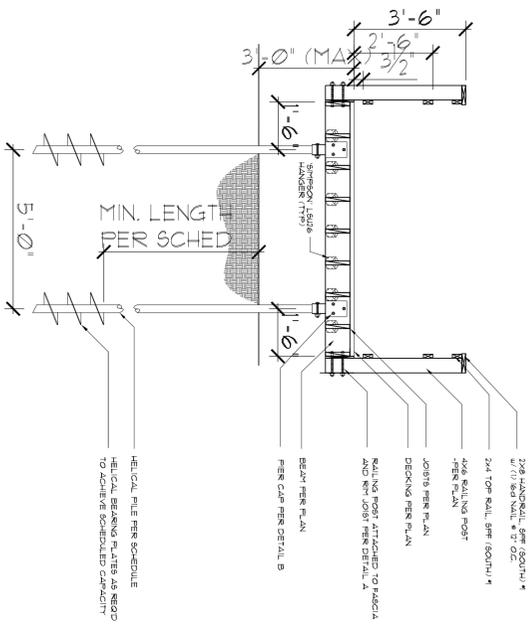
ITEM	SEQUENCY	PERFORMED BY
FILE INSTALLATION	2 VISITS MIN.	ENGINEERS

FILE	ALLOWABLE	HELICAL PILE SCHEDULE	OTHER NOTES
TYPE	LOAD	LENGTH * DRIBBLING	HEIGHT ZINC GALVANIZED PER SCHEDULE
(A)	4 KIPS MAX	3' O.D. X 12' WALL THICKNESS	100% ZINC GALVANIZED PER SCHEDULE (ASTM A424)

* MIN. DISTANCE BETWEEN SURFACE AND UPPERMOST HELICAL BEARING FLANGE



BOARDWALK ELEVATION



BOARDWALK CROSS SECTION

NOTE:
 SECTION OF BOARDWALK SHOWN IS FOR ILLUSTRATIVE PURPOSES FOR STRUCTURAL AND FOUNDATION DESIGN. GENERAL BOARDWALK LAYOUT BY OTHERS.

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