

STRUCTURAL PLANS

Structure Size: 28'x61'x10' w/concrete

Customer: Steven McLean

Address: 196 Raynor McLamb Rd. Bunnlevel, NC 28323

Prepared For:

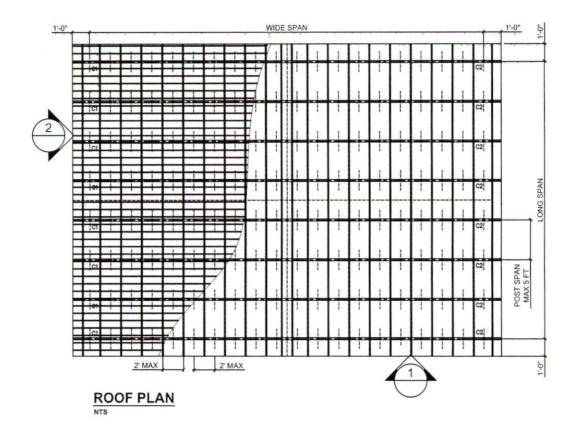
SUPERIOR METAL STRUCTURES & CONCRETE, LLC

Prepared By:



250 SHIPWASH DR, GARNER, NC 27529

THESE STRUCTURAL ENGINEERED PLANS ARE TO BE INCLUDED IN YOUR PERMIT APPLICATION AND STRUCTURE IS TO BE BUILT BY SUPERIOR METAL STRUCTURES & CONCRETE, LLC



GENERAL NOTES

ALL STRUCTURAL STEEL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH NOTES AND DETAILS ON THESE DRAWINGS; DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL CONFORM IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE 2018, INTERNATIONAL BUILDING CODE (IBC) 2021, AND NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2016 (REAFFIRMED 2020).

ALLOWABLE SOIL PRESSURE 2000 PSF

- WELDED WIRE FABRIC SHALL BE NEW BILLET STEEL, COLD DRAWN CONFORMING A815 AND SHALL BE SUPPLIED IN SHEET FORM
- ALL WELDING SHALL BE ACCOMPLISHED USING E-70XX LOW-HYDROGEN ELECTRODES AND AWS CERTIFIED WELDERS IN COMPLIANCE WITH CURRENT AWS STANDARDS.

ALL WELDS SHALL BE COATED WITH GALVANIZE PRIMER & PAINT AFTER WELDING

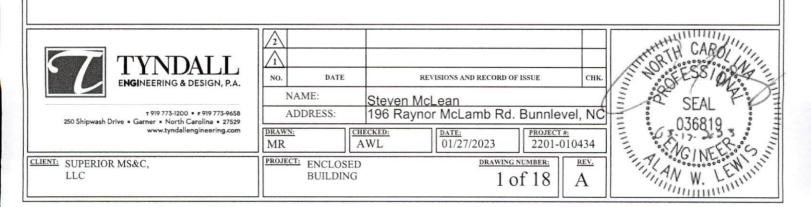
ALL WELDS SHALL BE COATED WITH GALVANIZE PRIMER & PAINT AFTER WELDING
THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION AND ANY
DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
GALVANIZED STRUCTURAL TUBING STEEL SHALL CONFORM TO ASTM A123 AND/OR A153
THE MINIMUM YIELD STRENGTH OF THE TUBE STEEL SHALL BE (Fy. 55,000 PSI)
THE MINIMUM YIELD STRENGTH OF METAL DECK SHALL BE (Fy. 80,000 PSI)
THE TUBE STEEL FOR COLUMNS SHALL BE 2 1/4" SQUARE GAUGE 14 FOR COLUMNS UP TO 10 FT TALL AND GAUGE 12 FOR
12" AND ARDVE

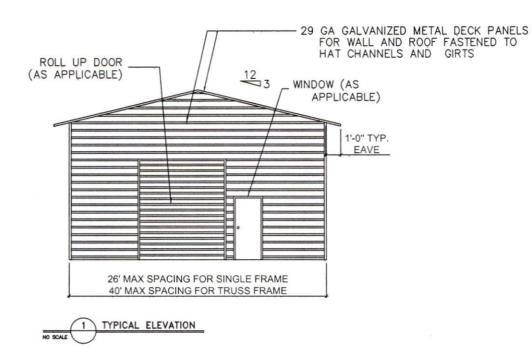
- 12' AND ABOVE

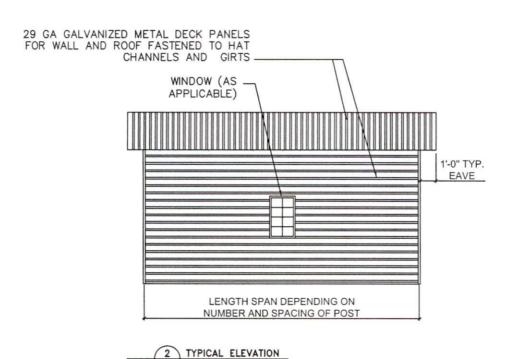
AT 150 MPH THE STRUCTURE SHALL BE BUILD WITH DOUBLE COLUMN SUPPORT

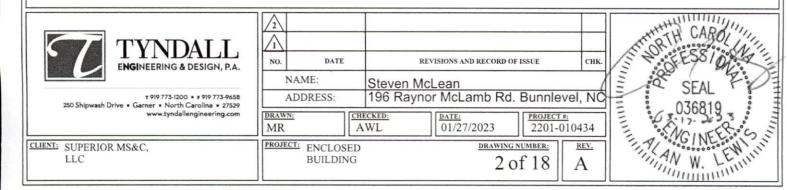
12) ALL TUBE STEEL CONNECTIONS SHALL BE BEARING TYPE USING #12X14X3/4" SELF DRILLING METAL SCREWS
13) DECKING SHALL BE GALVANIZED STEEL SHEET METAL STANDARD GA 29 FASTENED WITH (2) #12X14X3/4" SELF DRILLING METAL SCREWS WITH NEOPRENE WASHER, FOR RAFTER, HAT CHANNEL AND POST CONNECTION
14) THE CONCRETE DECK SHALL BE 3000 PSI CAPACITY AT 28 DAYS, AND THE SURFACE MUST BE LEVEL.CONTRACTOR RESPONSIBLE FOR MEETING THIS REQUIREMENT

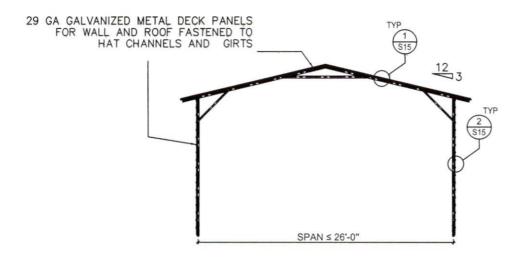
15) BASE RAIL ANCHORAGE TO CONCRETE SHALL BE BEARING 1/2" # WEDGE ANCHORS ASTM A325 OR SIMILAR HIGH STRENGTH BOLTS, UNLESS INDICATED OTHERWISE ON THE DRAWINGS



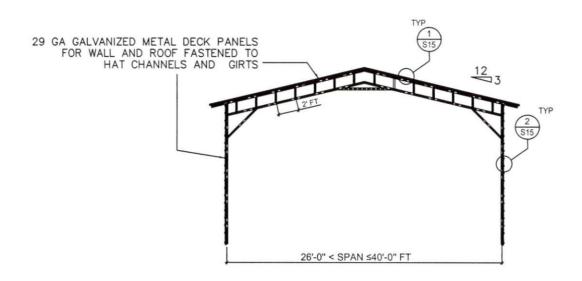














ELEVATION PLAN



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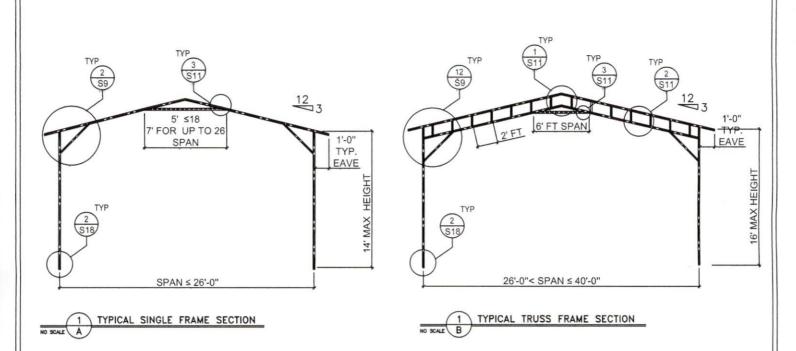
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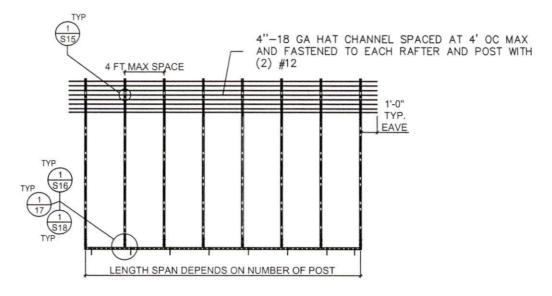
CLIENT: SUPERIOR MS&C, LLC PROJECT: ENCLOSED BUILDING

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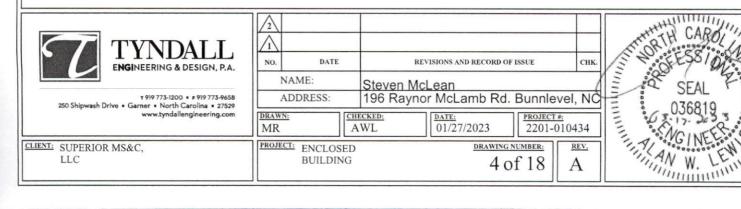
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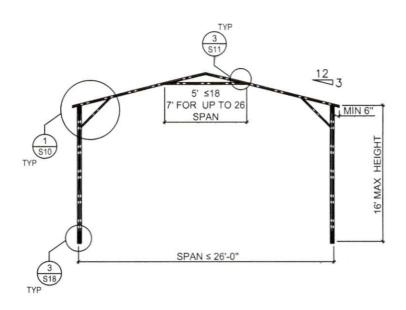
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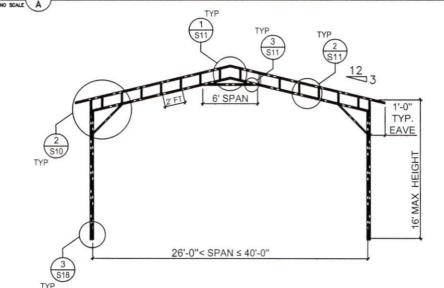


TYPICAL SIDE SINGLE FRAME SECTION





1 TYPICAL SINGLE FRAME DOUBLE SECTION FOR WIND SPEED 105<TO≤150 MPH



TYPICAL TRUSS FRAME DOUBLE SECTION FOR WIND SPEED 105<TO≤150 MPH

ELEVATION PLAN



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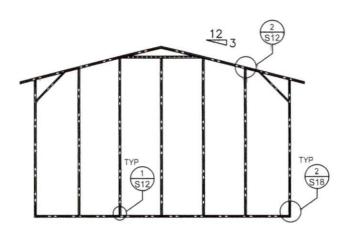
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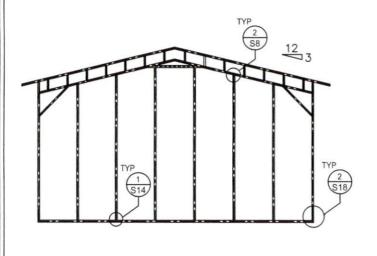
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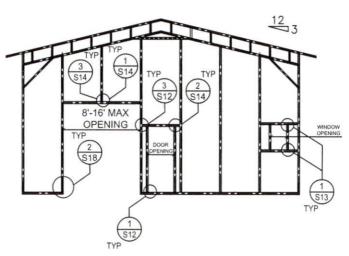


WINDOW **OPENING** 8'-16' MAX OPENING DOOR OPENING

TYPICAL SINGLE FRAME ELEVATION

FRAME ELEVATION W/ GARAGE DOOR, DOOR AND WINDOW FRAME





TYPICAL TRUSS FRAME ELEVATION

FRAME ELEVATION W/ GARAGE DOOR, DOOR AND WINDOW FRAME

ELEVATION PLAN



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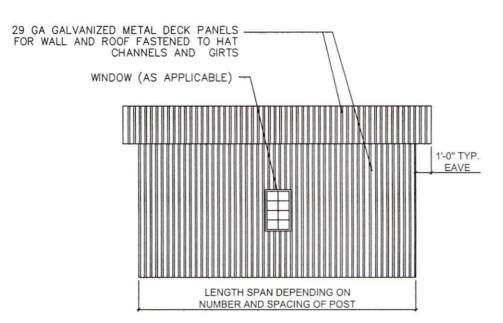
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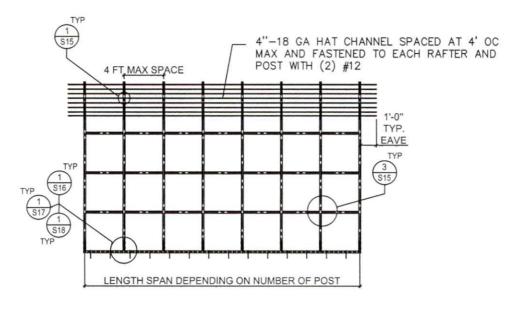
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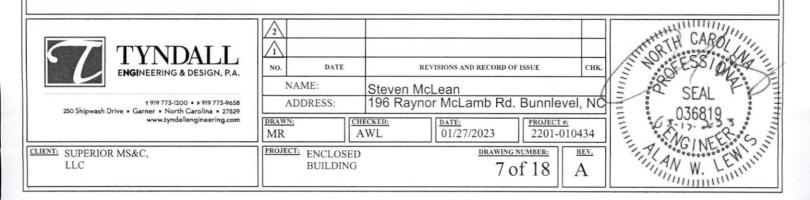
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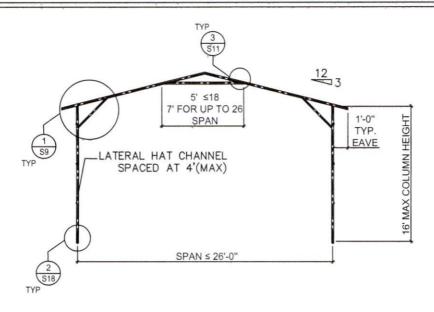


1 TYPICAL SIDE ELEVATION FOR VERTICAL PANEL DECK

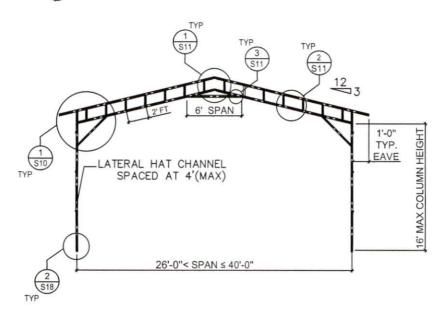


2 TYPICAL SIDE ELEVATION FOR VERTICAL METAL PANEL DECK

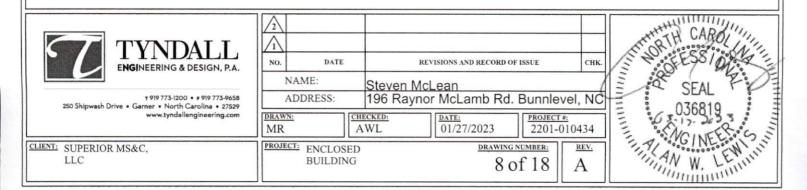


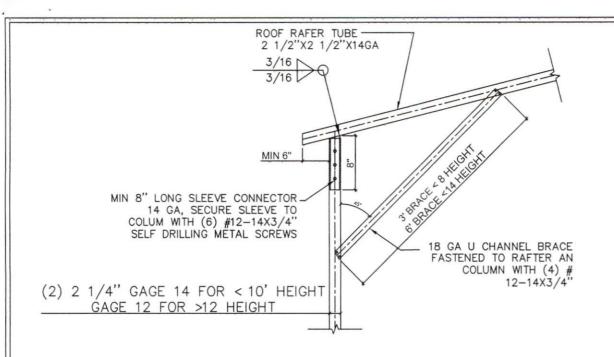


1 TYPICAL SINGLE FRAME SECTION FOR VERTICAL PANEL DECK

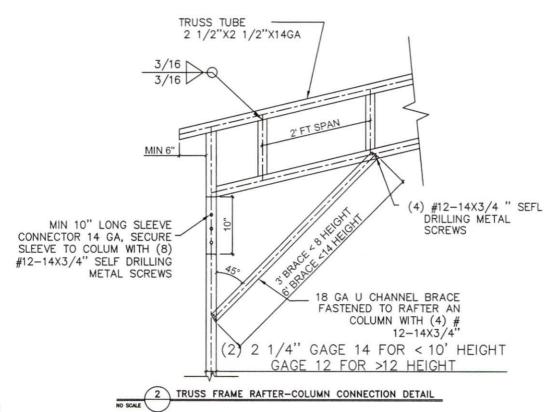


1 TYPICAL TRUSS FRAME SECTION FOR VERTICAL PANEL DECK





1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL



DETAILS



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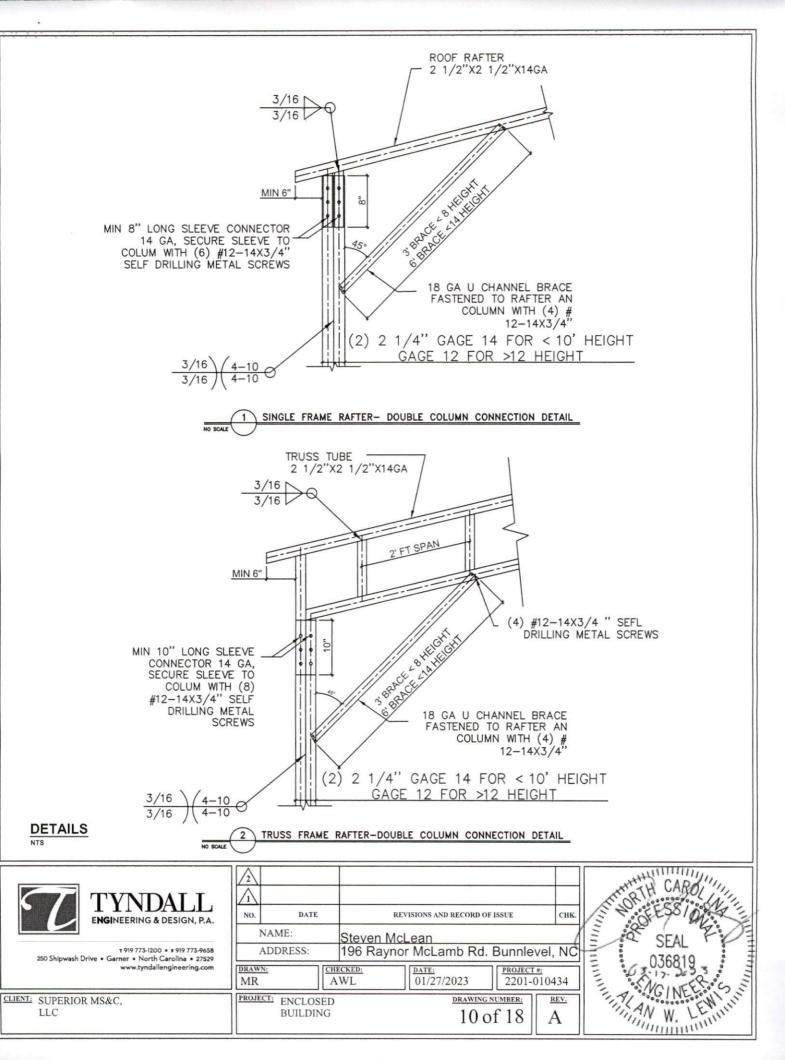
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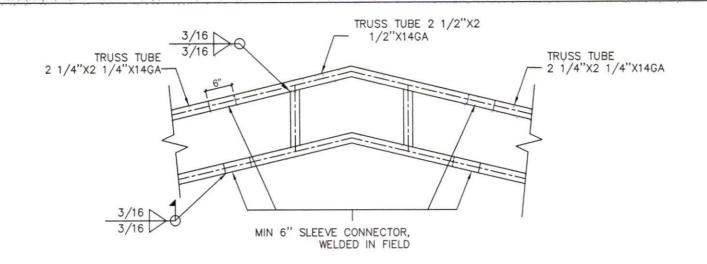
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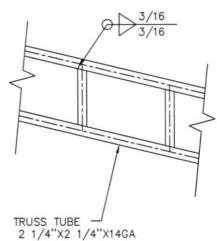
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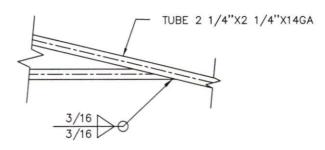




1 TRUSS-TRUSS CONNECTION DETAIL







DETAILS

SINGLE FRAME WELD DETAIL



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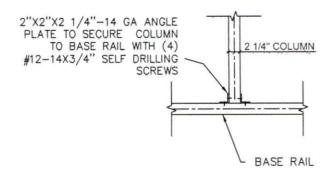
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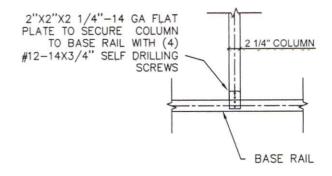
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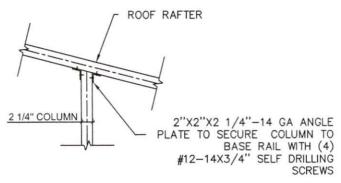


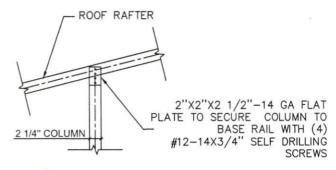


NO SCALE A

ANGLE PLATE CONNECTION COLUMN TO BASE RAIL

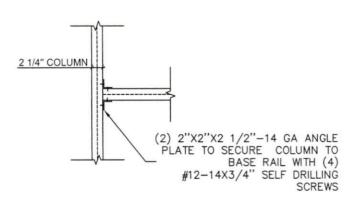
1 FLAT PLATE CONNECTION COLUMN TO BASE RAIL

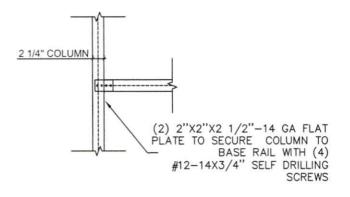




ANGLE PLATE RAFTER-COLUMN CONNECTION DETAIL

THE PLATE RAFTER-COLUMN CONNECTION DETAIL

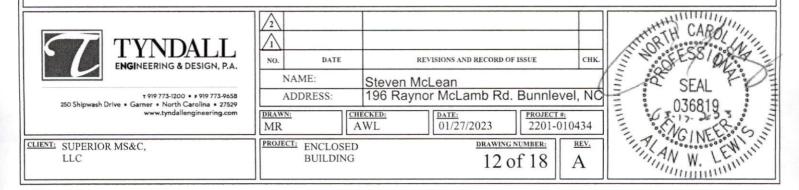


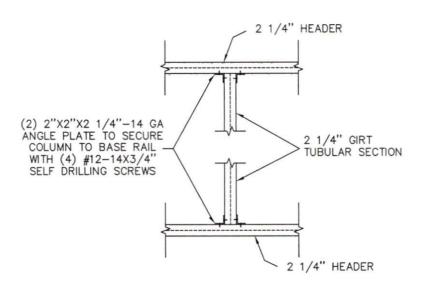


3 ANGLE PLATE HEADER-COLUMN CONNECTION DETAIL

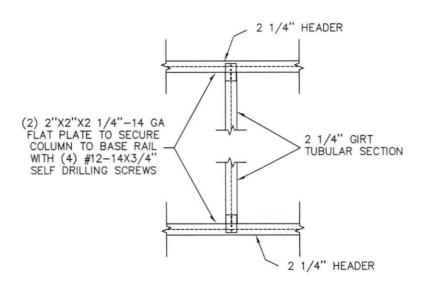
NO SCALE B FLAT PLATE HEADER-COLUMN CONNECTION DETAIL

DETAILS



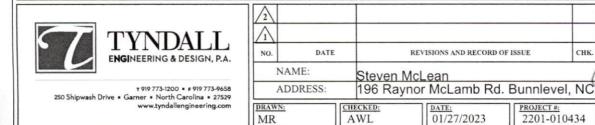


1 ANGLE PLATE HEADER CONNECTION FOR WINDOW DETAIL



1 FLAT PLATE HEADER CONNECTION FOR WINDOW DETAIL

DETAILS



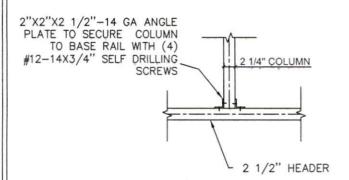
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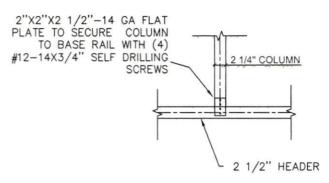
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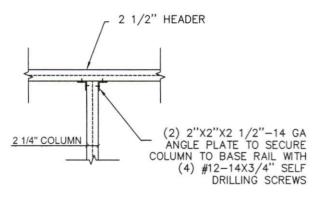
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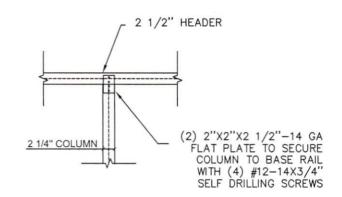




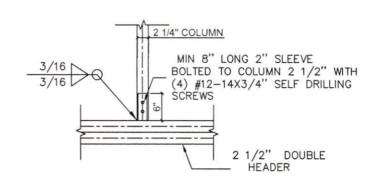
1 FLAT PLATE CONNECTION COLUMN-HEADER







2 FLAT PLATE DOOR COLUMN-HEADER CONNECTION DETAIL



NO SCALE 3 DOUBLE HEADER-COLUMN CONNECTION DETAIL



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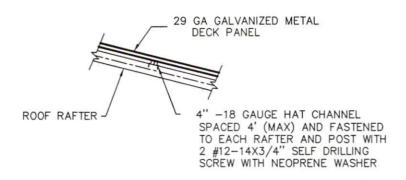
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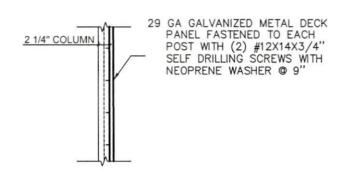
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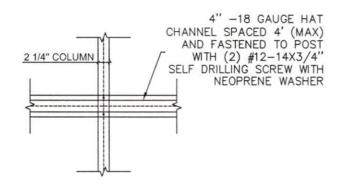
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1 SINGLE FRAME RAFTER-COLUMN CONNECTION DETAIL



DECKING-COLUMN CONNECTION



HAT-COLUMN CONNECTION DETAIL FOR VERTICAL DECKING



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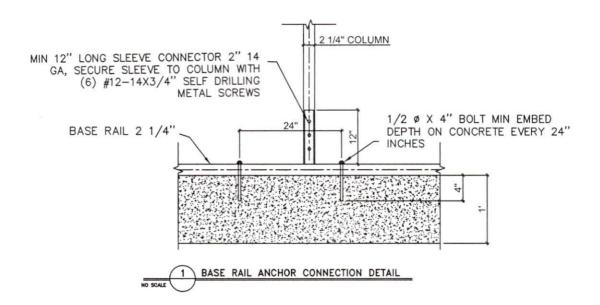
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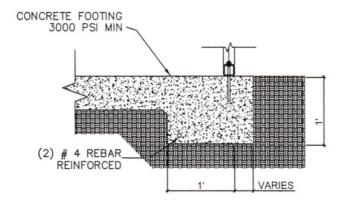
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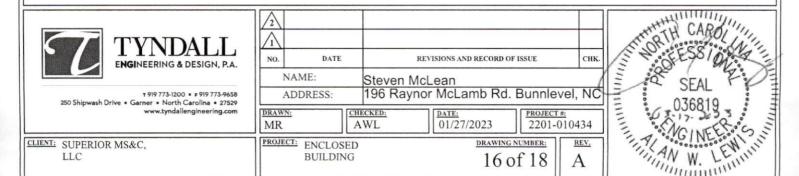
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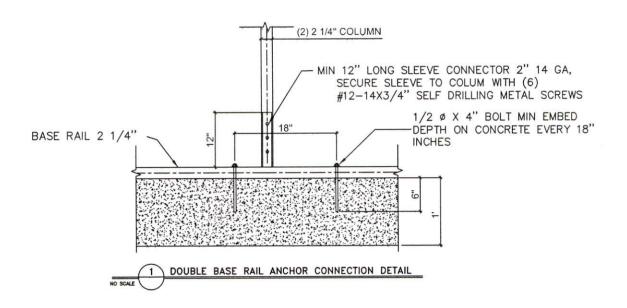


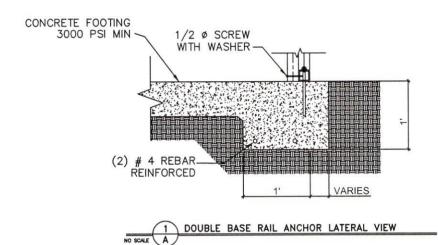




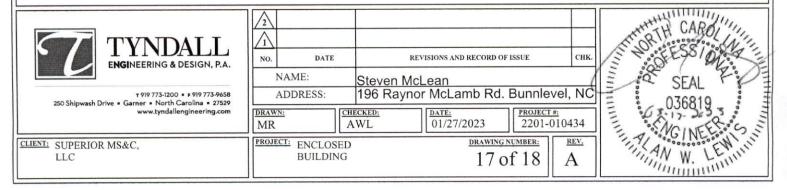
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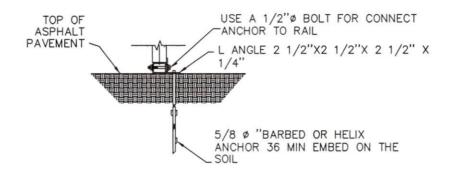












1 BASE RAIL ANCHORAGE WITH BARBED OR HELIX ANCHOR

