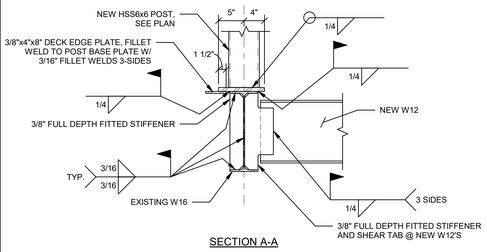
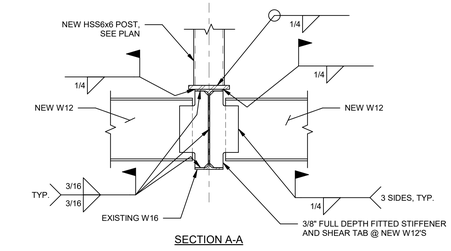
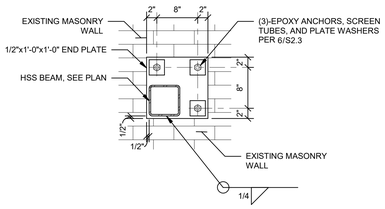


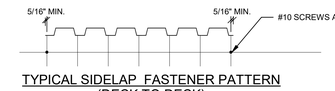
SECTION A-A



SECTION A-A

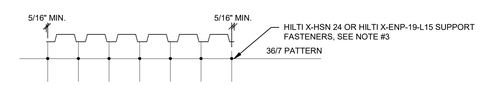


7 TYP. HSS BEAM END PLATE TO MASONRY WALL
1" = 1'-0"



TYPICAL SIDELAP FASTENER PATTERN
(DECK TO DECK)

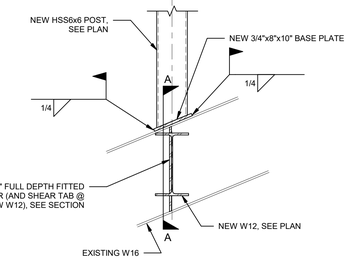
TYPICAL SIDELAP FASTENER PATTERN
(DECK TO BOUNDARY STEEL)



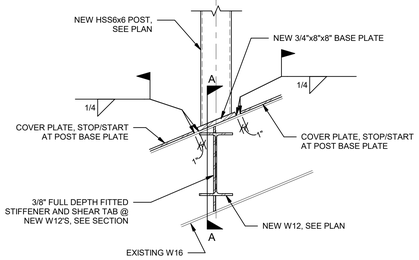
TYPICAL SUPPORT FASTENER PATTERN

NOTES:
1. DECK SHALL BE INSTALLED IN SUCH A MANNER THAT HEAD OF FASTENERS HAS FULL BEARING ON DECK WITHOUT BEING OVERDRIVEN (SEE FASTENER MANUFACTURER INSTRUCTIONS), & DECK SHALL BE INSTALLED SO THAT UNDERSIDE OF DECK IS FLUSH-BEARING AGAINST FRAMING SUPPORTS. SEE SPECS FOR OTHER SIDELAP & BEARING REQUIREMENTS.
2. SUPPORT ATTACHMENT PATTERN IS TYPICAL AT EACH JOIST OR BEAM (SEE PLAN FOR LOCATIONS WITH UNIQUE ATTACHMENT PATTERN.)
3. SELECT THE APPROPRIATE FASTENER TYPE OPTION BASED ON SUBSTRATE THICKNESS IN ACCORDANCE WITH ICC REPORT. IT IS LIKELY THAT BOTH OPTIONS WILL BE REQUIRED ON THE PROJECT. PRIOR TO BEGINNING INSTALLATION MARK TOP SIDE OF DECK IN A COLOR CODED FASHION THAT IDENTIFIES WHICH FASTENING OPTION IS TO APPLIED AT EACH SUPPORT.
4. COORDINATE FASTENER SEQUENCE WITH DECK LAYOUT AT CORNERS. MULTIPLE FASTENINGS MAY BE REQUIRED.
5. PROVIDE LT. GA. (WITH GA. TO BE THICKER THAN OR EQUAL TO GA. OF DECK) HIP, RIDGE, AND VALLEY PLATES AT ALL CHANGES IN SLOPES. FASTEN PLATES TO DECK W/ SIDELAP FASTENERS AT PATTERN FOR SIDELAPS.
6. SEE SPECIFICATIONS FOR FASTENER INSTALLER CERTIFICATION REQUIREMENTS
7. IMMEDIATELY UPON PLACING DECK AND BEFORE FASTENING DECK MARK PROTECTED ZONE OF STRUCTURE BELOW WITH PROTECTION ZONE MARKING PAINT.

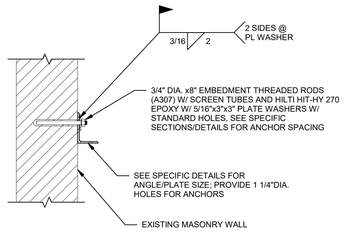
3 TYP. 1.5 ROOF DECK ATTACHMENT
1" = 1'-0"



14 TYP. DORMER POST BASE (CORNER POSTS)
1" = 1'-0"



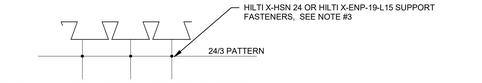
10 TYP. DORMER POST BASE (CENTER POSTS)
1" = 1'-0"



6 TYP. EPOXY ANCHORAGE @ EXISTING MASONRY WALLS
1" = 1'-0"

TYPICAL SIDELAP FASTENER PATTERN
(DECK TO DECK)

TYPICAL SIDELAP FASTENER PATTERN
(DECK TO BOUNDARY STEEL)



TYPICAL SUPPORT FASTENER PATTERN

NOTES:
1. DECK SHALL BE INSTALLED IN SUCH A MANNER THAT HEAD OF FASTENERS HAS FULL BEARING ON DECK WITHOUT BEING OVERDRIVEN (SEE FASTENER MANUFACTURER INSTRUCTIONS), & DECK SHALL BE INSTALLED SO THAT UNDERSIDE OF DECK IS FLUSH-BEARING AGAINST FRAMING SUPPORTS. SEE SPECS FOR OTHER SIDELAP & BEARING REQUIREMENTS.
2. SUPPORT ATTACHMENT PATTERN IS TYPICAL AT EACH JOIST OR BEAM (SEE PLAN FOR LOCATIONS WITH UNIQUE ATTACHMENT PATTERN.)
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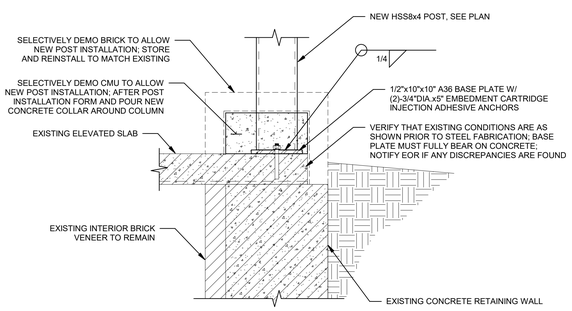
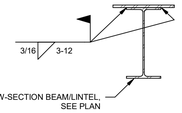
6. SEE SPECIFICATIONS FOR FASTENER INSTALLER CERTIFICATION REQUIREMENTS

2 TYP. 3.5 ACOUSTICAL DOVETAIL ROOF DECK ATTACHMENT
1" = 1'-0"

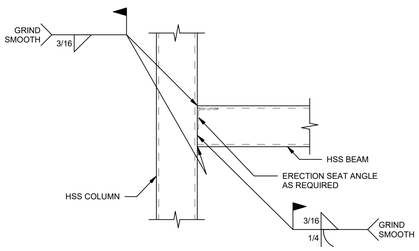


12 HSS8x4 POST BASE PLATE
1" = 1'-0"



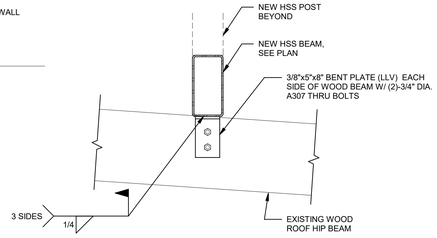
NOTES:
1. WELD IS TYPICAL AT BOTTOM FLANGE PLATES AS OCCURS
2. WELDS MAY BE PERFORMED IN THE SHOP WHERE APPLICABLE

9 TYP. FLANGE PLATE WELD
1" = 1'-0"

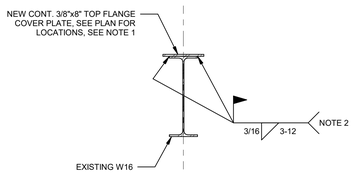


NOTES:
1. ALL MATERIAL, FINISH, AND WORKMANSHIP THIS DETAIL SHALL MEET AISC AESS CRITERIA

5 TYP. HSS BEAM TO HSS POST CONNECTION
1" = 1'-0"

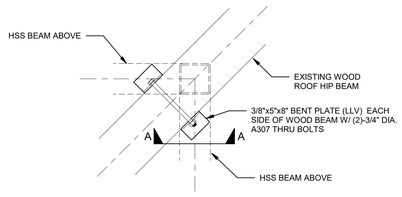


SECTION A-A



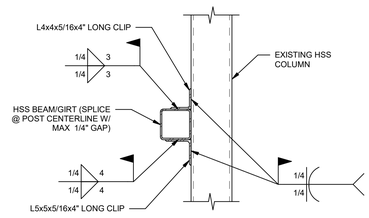
NOTES:
1. COVER PLATE SHALL RUN FULL LENGTH OF EXISTING BEAM EXCEPT @ POST BASES, SEE POST BASE DETAIL.
2. AT PLATE ENDS/TERMINATIONS, PROVIDE A 3/16"x6" LONG FILLET WELD ON EACH SIDE OF THE BEAM FLANGE

11 TYP. TOP FLANGE COVER PLATE
1" = 1'-0"

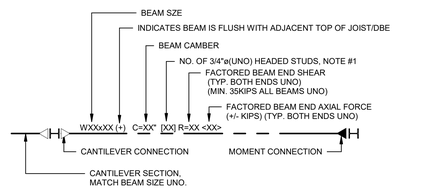


PLAN DETAIL

8 TYP. CUPOLA FRAME ANCHORAGE
1" = 1'-0"



4 TYP. HSS BEAM TO HSS POST CONNECTION (BEAM/GIRT OUTBOARD OF POST)
1" = 1'-0"



KEYED NOTES:
1. TYPICAL FINISHED STUD HEIGHT (AFTER WELDING) SHALL BE HEIGHT OF DECK PLUS 1 1/2" UNO

1 STEEL BEAM LEGEND
1/8" = 1'-0"

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admin THE SOUTH CAROLINA DEPARTMENT of ADMINISTRATION

THE SOUTH CAROLINA DEPARTMENT OF ADMINISTRATION
State Project #D50-6037-PD

project name

COLUMBIA MILLS ROOF REPLACEMENT & ATRIUM ROOF/ WINDOW REPLACEMENT

A/E project number (GMKA/ADC)

20058.01 / 21023

seals/signature

SOUTH CAROLINA ADC ENGINEERING INC. NO. 00253 STATE OF AUTHORIZATION

SOUTH CAROLINA No. 28872 REGISTERED PROFESSIONAL ENGINEER KYLE M MOODY 4/14/22

issued for

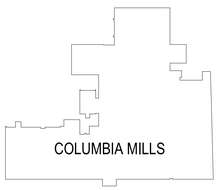
CONSTRUCTION DOCUMENTS

date

APRIL 14, 2022

number	item	date

key plan



sheet title

TYPICAL STEEL DETAILS

sheet number

S2.3

drawn by KMM

checked by JBJ