


FACILITIES DESIGN
GENERAL SERVICES DIVISION, NCDOT
SOUTH WILMINGTON STREET
1 RALEIGH, NORTH CAROLINA 27601
919/715-0400 FAX 919/715-0399



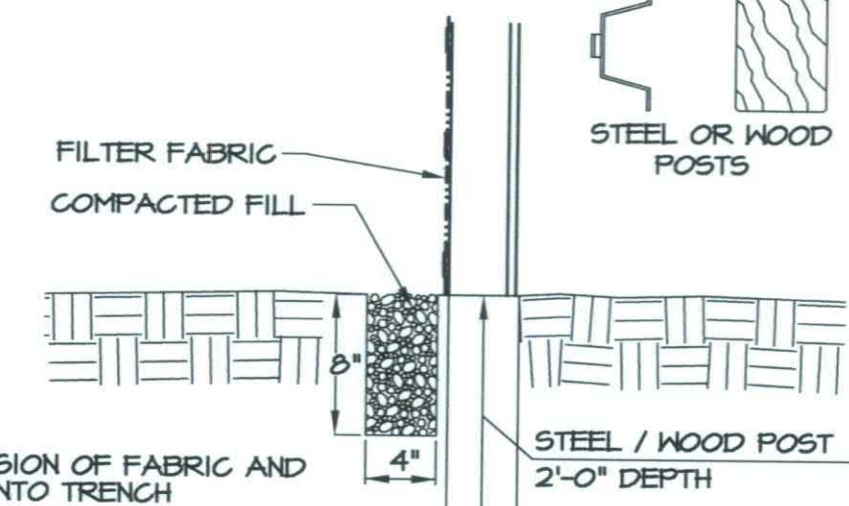
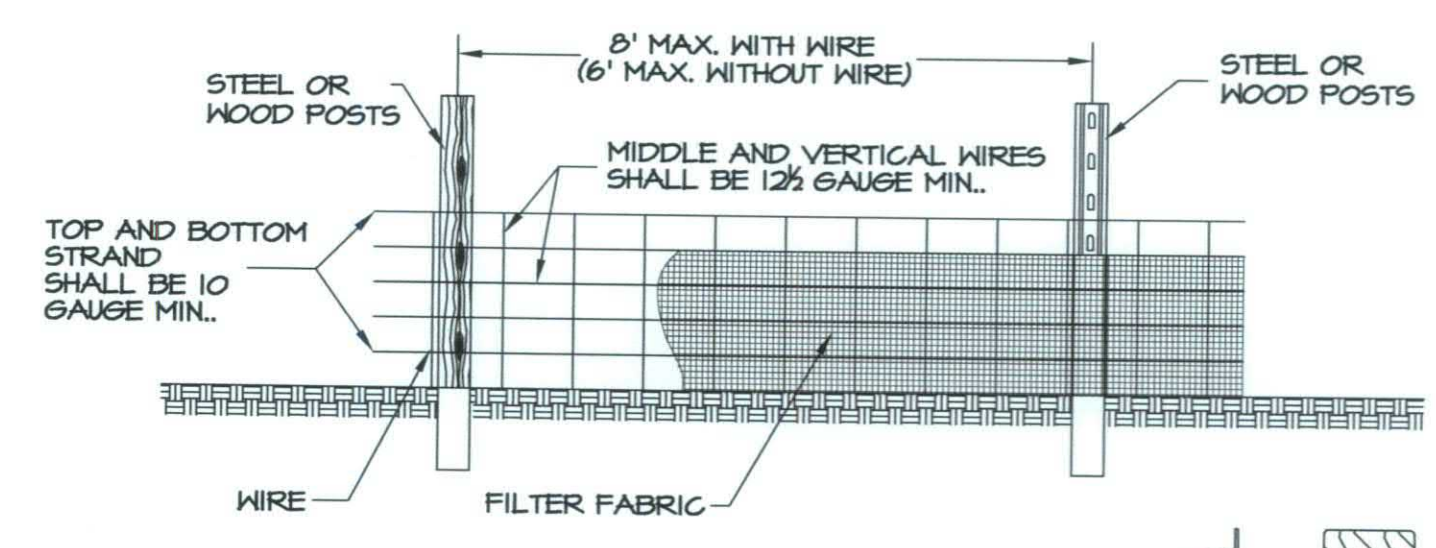
**HATTERAS DORMITORY NO. 2
FERRY DIVISION**
HIGHWAY DIVISION 1, NCDOT
DARE COUNTY, NORTH CAROLINA

C-1

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1. SOIL BORING LOCATIONS ARE DENOTED BY  SYMBOL.
2. DEVELOPMENT WHICH WILL TAKE PLACE WITHIN THE LIMITS OF THE 100-YEAR FLOOD PLAIN AT ELEVATION 9.0' (NAVD 88) (PER F.I.R.M. ZONE "AE") IS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF EXECUTIVE ORDER 123, UNIFORM FLOOD PLAIN MANAGEMENT POLICY.
CONTRACTOR SHALL CLEAR THE AREA INSIDE THE SHOWN CONSTRUCTION LIMITS, PROVIDE SILT FENCE (WHERE SHOWN) AND MAINTAIN.
- a. PROJECT SHALL BE PHASED AS FOLLOWS:
 - 1st: SITE CLEARING
 - 2nd: BUILDING FOUNDATION & ENCLOSURE COMPLETED BEFORE THE WASTE WATER SYSTEM
(THIS AREA TO BE USED BY THE CONTRACTOR FOR MATERIAL STORAGE AND STAGING)
 - 3rd: THE WASTE WATER SYSTEM SHOULD BE INSTALLED DURING THE INTERIOR CONSTRUCTION OF THE BUILDING.
 - 4th: SITE GRADING AND LANDSCAPING SHOULD BE FINISHED. CONTRACTOR TO PROVIDE 500' FROM THE BUILDING TO THE 10' CONSTRUCTION LIMIT.
3. ORIGINAL SURVEY PLAN BY PHILIP J. HINTON 07/01/2002.

	ACRES (SQ.FT.)
TOTAL SITE AREA:	4.52 (196,821.10)
TOTAL CONSTRUCTION LIMITS:	.99 (43,220.23)
ORIG. IMPERVIOUS AREA:	0.0 (0.0)
ORIG. PERVIOUS AREA:	4.52 (196,821.10)
NEW IMPERVIOUS AREA:	.52 (22,866.31)
NEW PERVIOUS AREA:	3.99 (173,954.79)



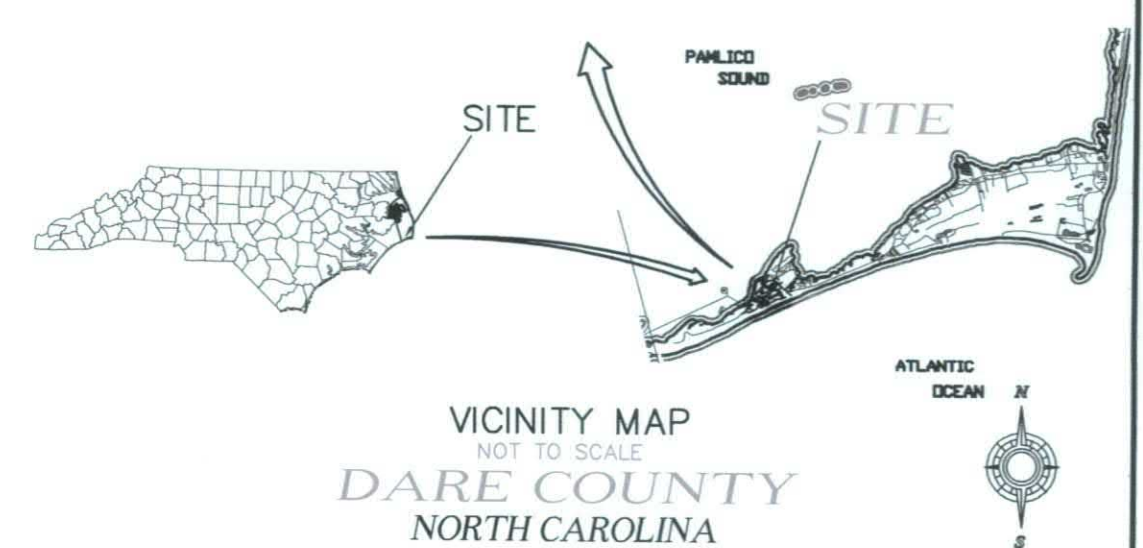
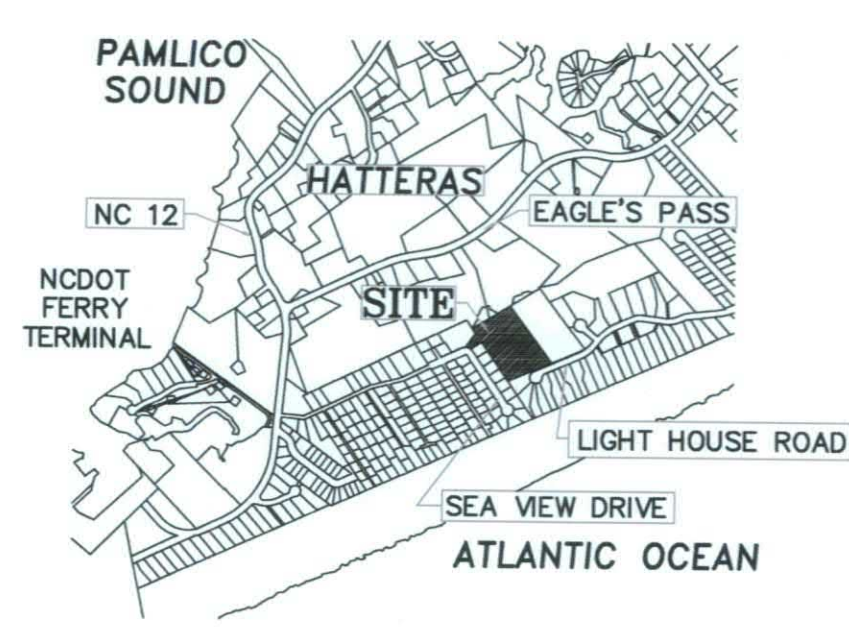
NOTES

WIRE SHALL BE A MINIMUM OF 32" IN HIGH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.

FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.

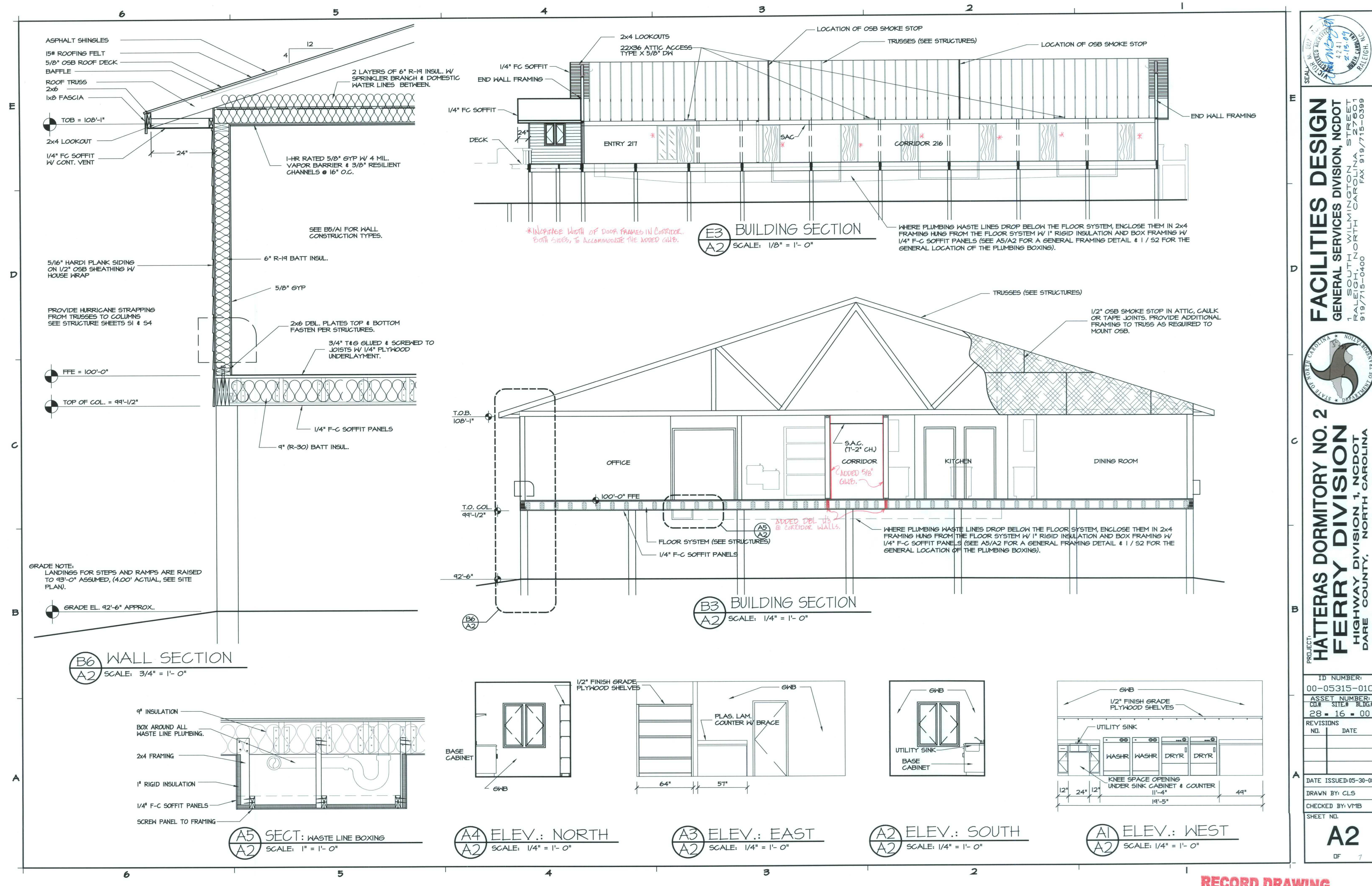
STEEL POST SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.

2 SILT FENCE DETAILS
C1 SCALE: N.T.S.




 SITE / UTILITY PLAN / CONST. LIMIT
 SCALE: 1" = 40.00'

RECORD DRAWING



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PROJECT: **HATTERAS DORMITORY NO. 2**
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DARE COUNTY, NORTH CAROLINA

ID NUMBER:		00-05315-01C
ASSET NUMBER:		CU# SITE# BLDG#
28 - 16 - 00		
REVISIONS	NO.	DATE

DATE ISSUED: 05-30-08
DRAWN BY: CLS
CHECKED BY: VMB
SHEET NO.

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OF 7

RECORD DRAWING

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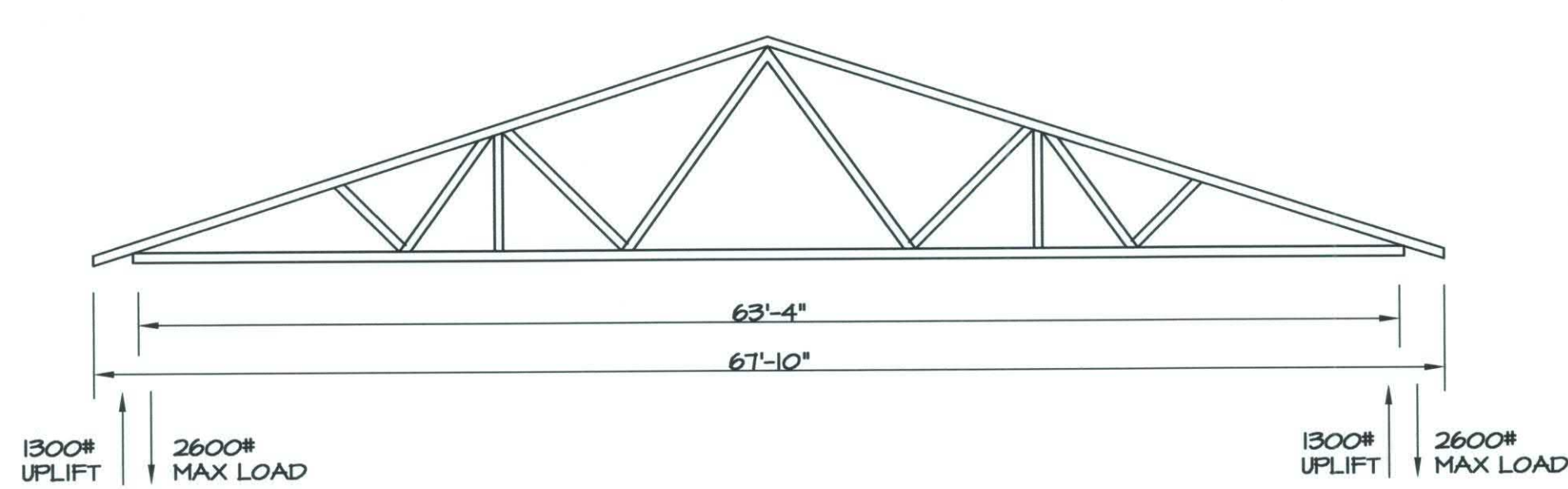
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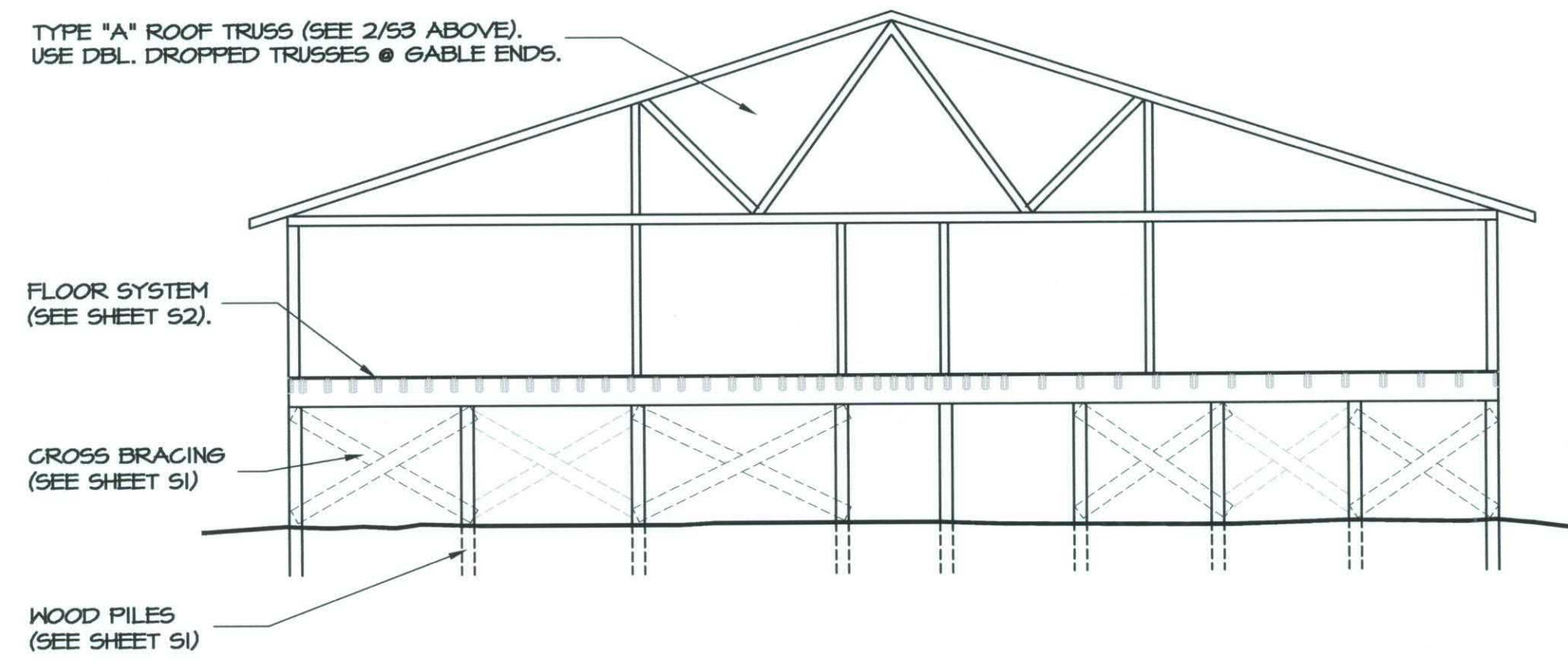
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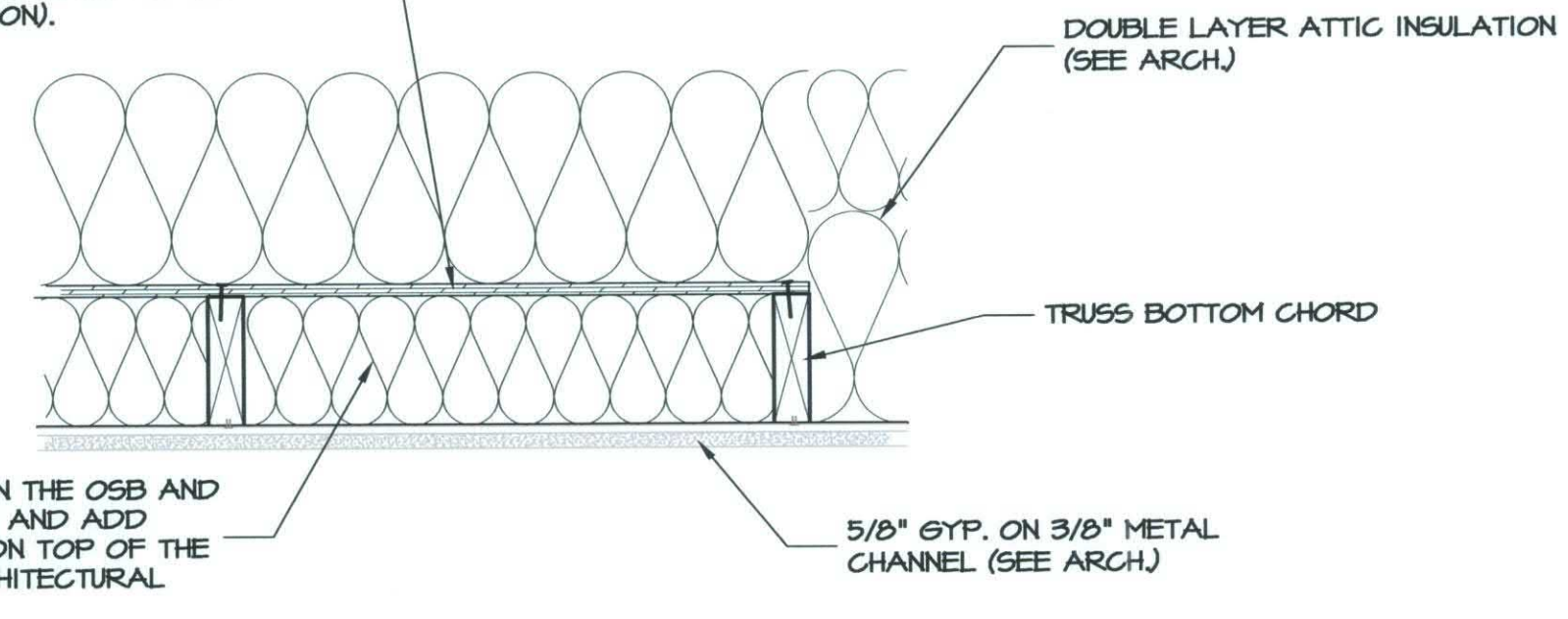
2
S3
DETAIL: TRUSS A
NTS

TYPE "A" ROOF TRUSS (SEE 2/53 ABOVE).
USE DBL. DROPPED TRUSSES @ GABLE ENDS.



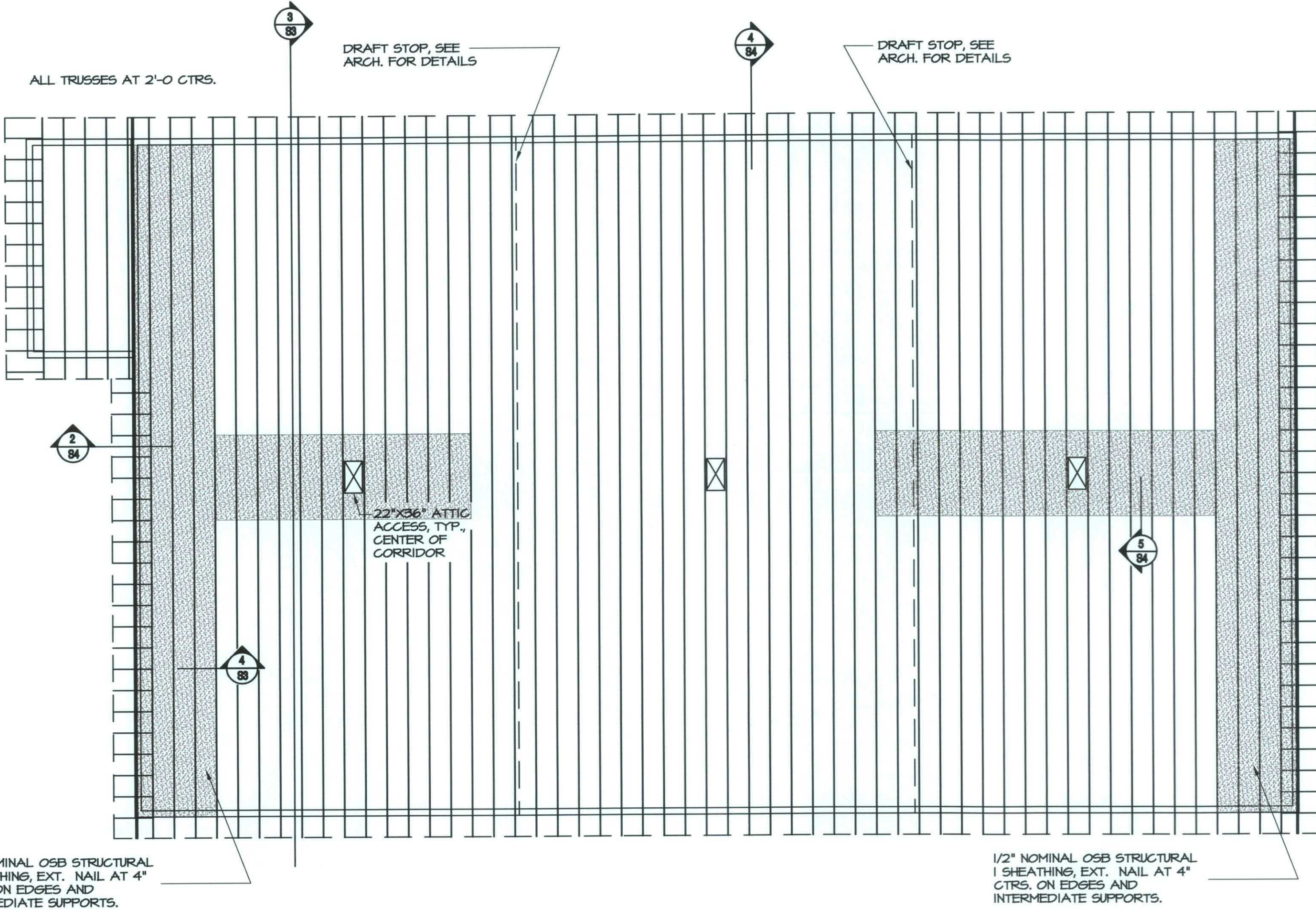
3
S3
BUILDING SECTION
SCALE: 1/8" = 1'-0"

1/2" NOMINAL OSB STRUCTURAL I
SHEATHING, EXT. NAIL AT 4" CTRS. ON
EDGES AND INTERMEDIATE SUPPORTS.
(SEE 1/53 FOR LOCATION).



4
S3
SECTION:
SCALE: 1 1/2" = 1'-0"

ALL HARDWARE TO BE HOT-DIPPED
GALVANIZED AFTER FABRICATION.



1
S3
ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

ROOF FRAMING NOTES:

1. ROOF TRUSS FABRICATOR SHALL FURNISH COMPLETE SHOP DRAWINGS WITH ENGINEERING DESIGN COMPUTATIONS OF EACH TRUSS, DETAILING THE FOLLOWING: TRUSS LAYOUT W/ HANGER AND CONNECTOR LIST FOR EACH TRUSS, TRUSS CONNECTION DETAILS, ALL BRIDGING AND BRACING FOR TRUSSES AS SHOWN IN PROFILE, ALL BEARING THE SEAL OF A REGISTERED ENGINEER SHOWING REGISTRATION IN THE STATE OF NORTH CAROLINA. THE PLACEMENT OF THE ENGINEER'S SEAL WITH THE ENGINEER'S SIGNATURE AND DATE SEALED AND SIGNED CERTIFIES THAT THE WORK HAS BEEN DESIGNED AND CHECKED BY THE ENGINEER AND THAT THE DESIGN AND WORK MEETS THE SPECIFIED REQUIREMENTS AND THE NORTH CAROLINA STATE BUILDING CODE. TRUSS LATERAL X-BRACING, TOP & BOTTOM CHORD LATERAL BRACING SHALL BE AS DEFINED IN HB-41 FOR HIP OR PITCHED ROOFS. BRACING SHALL BE SYP #2 (MIN. 2x4's) AND NAILED AT EACH CONNECTION W/ A MINIMUM OF 2-16d GALVANIZED NAILS. ADDITIONAL BRACING PER DRAWINGS.
2. DESIGN LOADS
ROOF TRUSSES: DEAD LOAD = 10 PSF
LIVE LOAD = 20 PSF
SNOW LOAD = 10 PSF
COLLATERAL DEAD LOAD 4 PSF
USE DEAD LOAD AND COLLATERAL DL TO CALCULATE NET UPLIFT
ATTIC LOAD = 10 PSF
DESIGN WIND VELOCITY = 135 MPH, DESIGN PER ASCE 7-02
3. PROVIDE THE REQUIRED CAMBER IN EACH ROOF TRUSS SO THAT THE D.L. AND L.L. DEFLECTION SHALL BE THE SAME IN ALL PLANES. CAMBER FOR LONG TERM DEAD LOAD DEFLECTION.
4. ALL WOOD MEMBERS USED SHALL BEAR THE IDENTIFICATION GRADE AS CALLED FOR IN THE FABRICATOR'S ENGINEERED AND SEALED DESIGN COMPUTATIONS.
5. LUMBER SHALL NOT BE LESS THAN GRADE NO. 2 SOUTHERN YELLOW PINE OR AS ALLOWED BY FABRICATOR'S ENGINEERED AND SEALED DESIGN COMPUTATIONS.
6. LUMBER SHALL BE GRADED AND MARKED BY SOUTHERN PINE INSPECTION BUREAU.
7. THE ERECTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE BRACING TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
8. THE ERECTOR SHALL INSTALL ALL BRIDGING AND BRACING AS CALLED FOR BY THE SEALED SHOP DRAWINGS AND COMPUTATIONS.
9. ANCHORS FOR ROOF TRUSSES SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE CO., OR APPROVED EQUAL. (HARLON METAL PRODUCTS INC., OR HUGHES, OR USP) ALL HARDWARE SHALL BE HOT-DIPPED GALVANIZED.



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OF 4



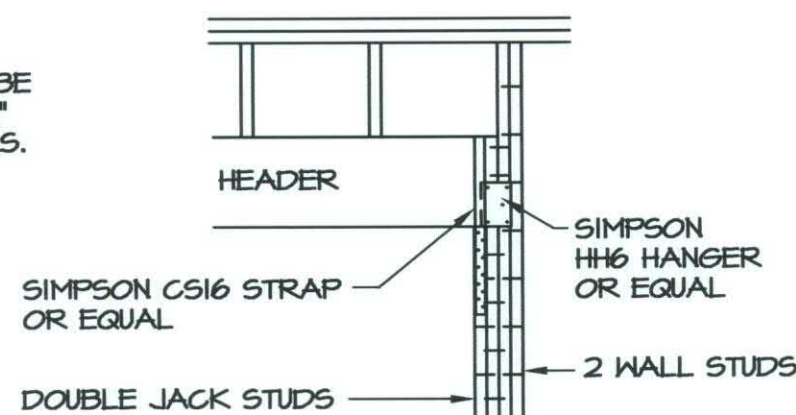
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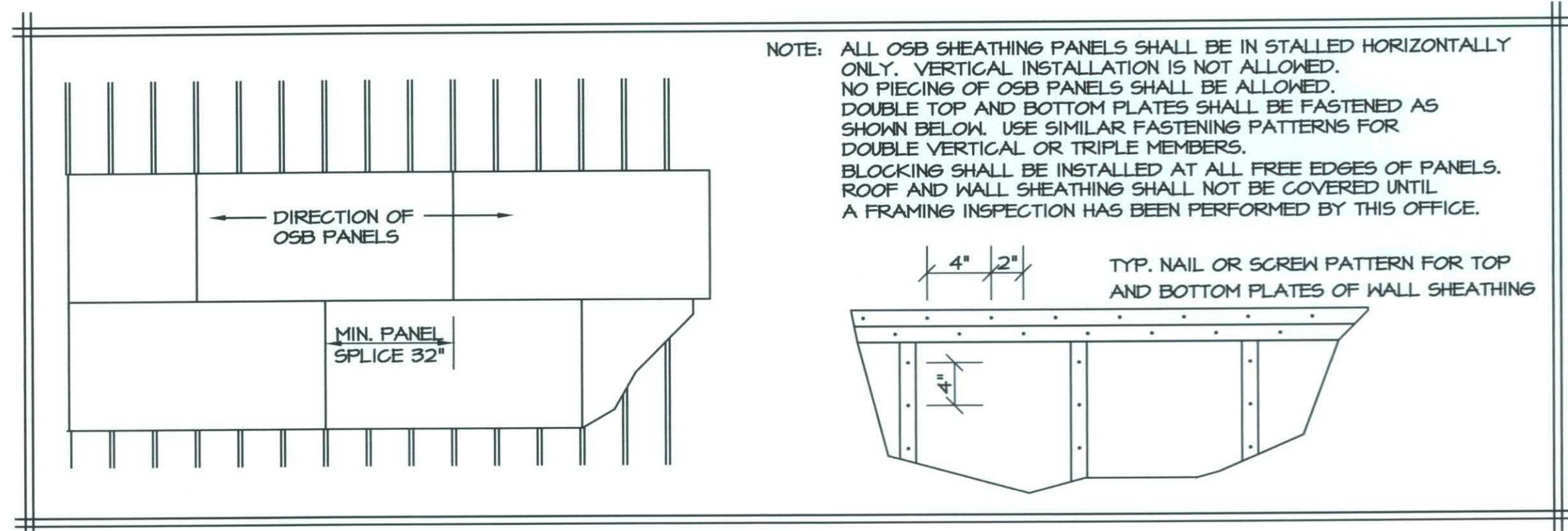
ALL HEADERS TO BE
3 2X12's W/ 2 - 1/2"
PLYWOOD SPACERS.



TYP WINDOW DETAIL
USE SIMPSON H46 HEADER
HANGERS @ SILL LOCATIONS

NAIL ALL STUDS TOGETHER
W/ 12d GALV. NAILS @
6" CTRS., STAGGERED.

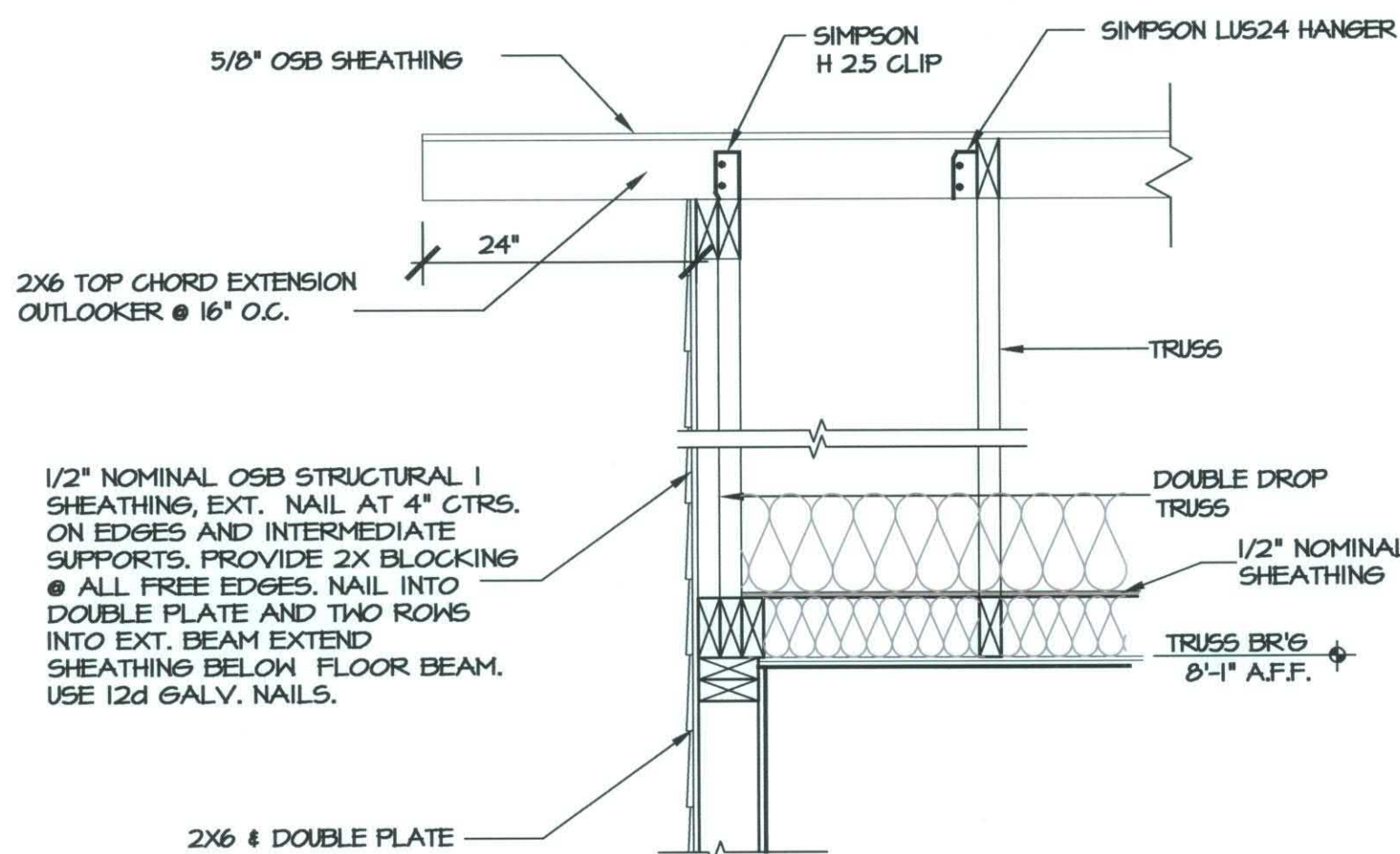
1
S4 **DETAIL**
SCALE: 1/2" = 1'-0"



NOTE: ALL OSB SHEATHING PANELS SHALL BE INSTALLED HORIZONTALLY ONLY. VERTICAL INSTALLATION IS NOT ALLOWED. NO PIECING OF OSB PANELS SHALL BE ALLOWED. DOUBLE TOP AND BOTTOM PLATES SHALL BE FASTENED AS SHOWN BELOW. USE SIMILAR FASTENING PATTERNS FOR DOUBLE VERTICAL OR TRIPLE MEMBERS. BLOCKING SHALL BE INSTALLED AT ALL FREE EDGES OF PANELS. ROOF AND WALL SHEATHING SHALL NOT BE COVERED UNTIL A FRAMING INSPECTION HAS BEEN PERFORMED BY THIS OFFICE.

TYP. NAIL OR SCREW PATTERN FOR TOP
AND BOTTOM PLATES OF WALL SHEATHING

3
S4 **DETAIL: WALL & ROOF SHEATHING**
SCALE 3/4" = 1'-0"



2
S4 **GABLE FRAMING**
SCALE: 3/4" = 1'-0"

ALL HARDWARE TO BE HOT-DIPPED
GALVANIZED AFTER FABRICATION.

NOTE: SPLICES OF TOP AND BOTTOM PLATES
SHALL BE SPACED A MAX. OF 3' APART.
ALL FRAMING MEMBERS SHALL BE FASTENED
PER THE REQUIRED FASTENING SCHEDULE,
TABLE 2304.4.1 OF THE 2002 EDITION OF THE
NBCI IN ADDITION TO THE FASTENERS SHOWN ON
THESE DETAILS OR CALLED OUT IN THE SPECS.

5/8" NOMINAL OSB STRUCTURAL I
SHEATHING, EXT. NAIL AT 4" CTRS. ON
EDGES AND INTERMEDIATE SUPPORTS.
PROVIDE 2x BLOCKING @ ALL FREE
EDGES. USE 12d GALVANIZED NAILS.

NAIL @ 3" CTRS. WITHIN 4' OF
EAVE, GABLE, AND RIDGE.

SIMPSON H10 TIE
ONE EACH SIDE
OF BEARING

2X6 SOFFIT FRAMING,
ATTACH TO BLOCKING
W/ SIMPSON LU524
JOIST HANGER OR
EQUAL.

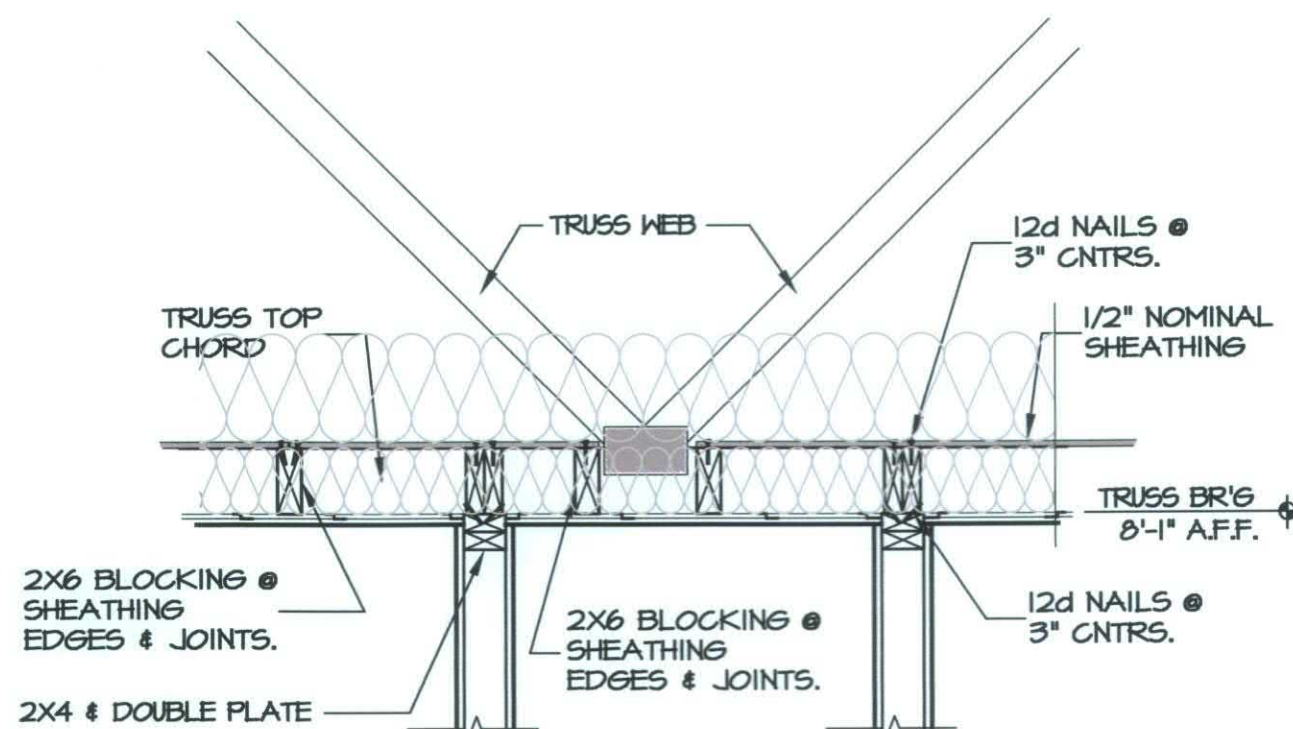
1/2" NOMINAL OSB STRUCTURAL I
SHEATHING, EXT. NAIL AT 4"
CTRS. ON EDGES AND
INTERMEDIATE SUPPORTS.
PROVIDE 2x BLOCKING @ ALL
FREE EDGES. NAIL INTO DOUBLE
PLATE AND TWO ROWS INTO EXT.
BEAM EXTEND SHEATHING
BELOW FLOOR BEAM. USE 12d
GALV. NAILS.

4
S4 **DETAIL: EAVE SECT.**
SCALE 1/8" = 1'-0"

FULL DEPTH BLOCKING BETWEEN EACH JOIST,
NAIL TO DOUBLE PLATE W/ 12d GALV. NAILS
@ 4" CTRS. NAIL ROOF DECK TO BLOCKING
@ 4" CTRS.

HORIZ. BLOCKING, ATTACH
TO FRAMING W/ 2 #12
WOOD SCREWS MIN. 3 1/2" LONG.

2X6 STUD FRAMING @ 16" CTRS.



5
S4 **SECTION:**
SCALE: 3/4" = 1'-0"