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A MULTI-DISCIPLINARY DESIGN FIRM

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CONSULTANT

SEAL

TDLR# EABPRJA7817013



JUL 18 2007

PROJECT

MEMORIAL HEIGHTS PHASE I

HOUSTON, TEXAS

FOR

ARCHSTONE SMITH

201 SOUTH HEIGHTS BOULEVARD
UNIT 1928
HOUSTON, TEXAS 77007
713-863-9015

PRINTED

PROGRESS SET 06/22/07

ISSUED FOR PERMIT 07/18/07

REVISIONS

DATE

07/18/07

JOB NUMBER

0511701

DRAWN BY

REE

CHECKED BY

MDL

SHEET TITLE

BUILDING 3000 ROOF PLAN

SHEET NUMBER

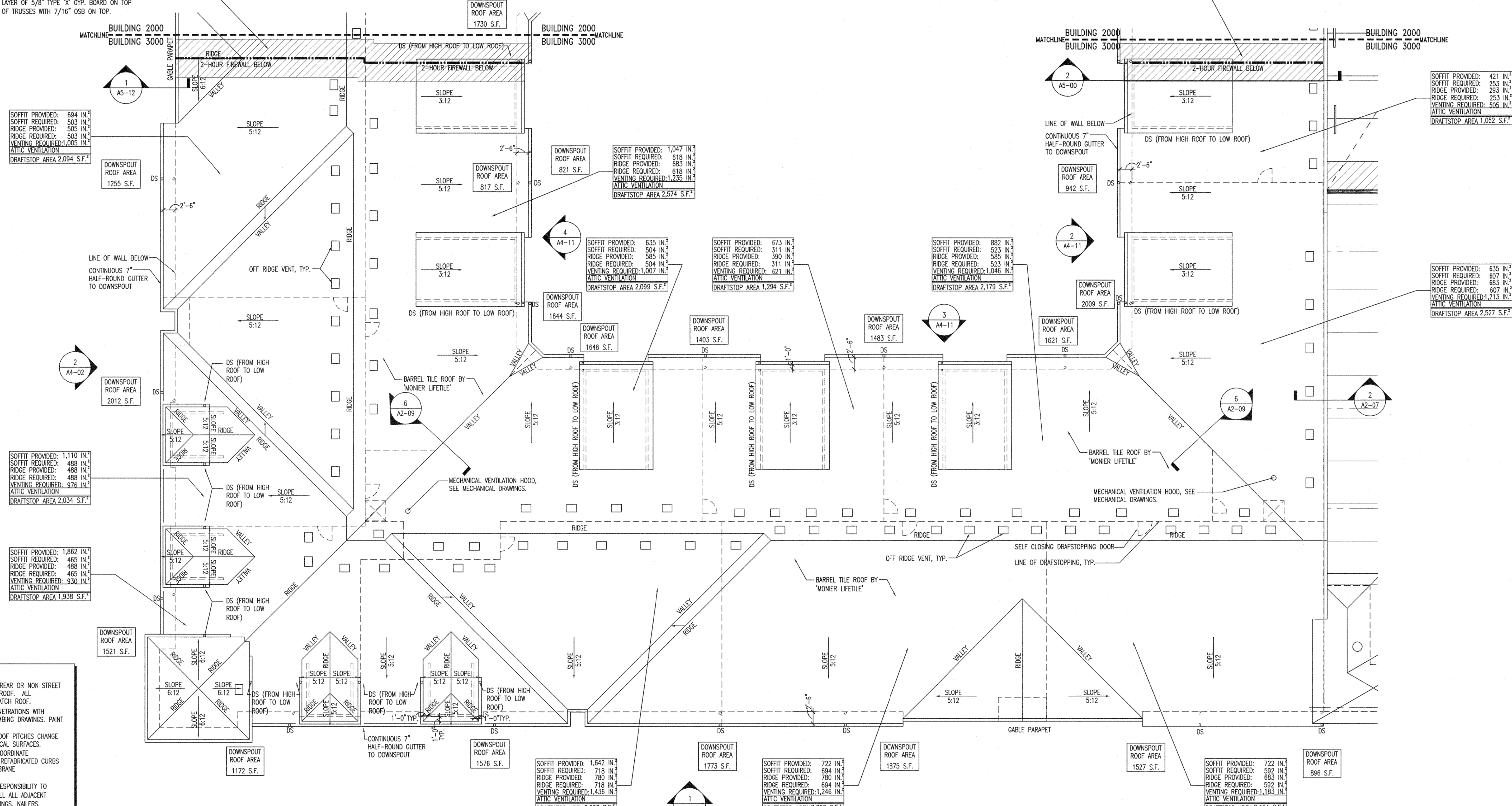
A2-03

COMMENTS

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NOTE:
HATCHED AREA INDICATES EXTENT OF FIRE RATED PLYWOOD ROOF SHEATHING- 4'-0" TO EACH SIDE OF FIREWALL MINIMUM. NO ROOF PENETRATIONS, TYPICAL. ALTERNATE - (1) ONE LAYER OF 5/8" TYPE "X" GYP. BOARD ON TOP OF TRUSSES WITH 7/16" OSB ON TOP.

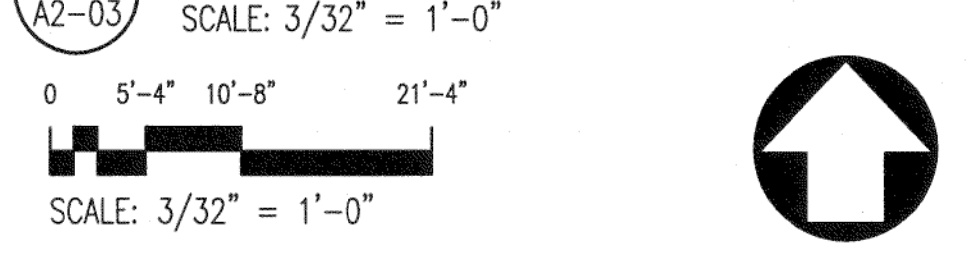
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GENERAL ROOF NOTES

- ROOF PENETRATIONS TO OCCUR ON REAR OR NON STREET FRONT ELEVATION SIDE OF PITCHED ROOF. ALL PENETRATIONS TO BE PAINTED TO MATCH ROOF.
- VERIFY LOCATIONS OF ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL, AND PLUMBING DRAWINGS. PAINT TO MATCH ROOF.
- PROVIDE VALLEY FLASHING WHERE ROOF PITCHES CHANGE AND WHERE ROOF INTERSECTS VERTICAL SURFACES.
- MECHANICAL, SUB-CONTRACTOR TO COORDINATE INSTALLATION AND ACCEPTANCE OF PREFABRICATED CURBS AND PENETRATIONS WITH ROOF MEMBRANE SUB-CONTRACTOR.
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY, COORDINATE AND/OR INSTALL ALL ADJACENT AND/OR RELATED FLASHINGS, BLOCKINGS, NAILERS, INSULATION STOPS, CRICKETS, ETC. NECESSARY FOR THE COMPLETE INSTALLATION OF THE ROOF MEMBRANE WHICH ARE REQUIRED FOR A COMPLETE, WARRANTED, WATERRIGHT, WATERPROOF INSTALLATION.
- ALL ROOF SLOPES ARE TO HAVE A MINIMUM 1/4" FALL WHERE CRICKET VALLEYS OCCUR. CRICKETS ARE TO BE PROVIDED WITH SUFFICIENT DEPTH AND SLOPE TO ACCOMMODATE A MINIMUM 1/4" PER FOOT FALL AT THE VALLEY.
- LOCATIONS OF ROOF ACCESSORIES AND MATERIAL ARE SCHEMATIC IN NATURE. EXACT LOCATIONS SHALL BE DETERMINED BY INFORMATION ELSEWHERE ON THE DRAWINGS.
- OMISSION OF ANY ACCESSORY FROM THE ROOF PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITIES FOR SUCH ITEMS.
- ROOFING CONTRACTOR TO PROVIDE ATTIC SPACE VENTILATION WITH RIDGE VENTS, OFF RIDGE VENTS, AND CONTINUOUS VENT IN SOFFIT IN ACCORDANCE WITH SECTION 12.03.2 OF 2003 IRC WITH HOUSTON AMENDMENTS.
- PROVIDE VALLEY FLASHING WHERE ROOF PITCHES CHANGE AND WHERE ROOF INTERSECTS VERTICAL SURFACES.
- FLASH ALL ROOF AND WALL INTERSECTIONS WITH FLASHING.
- PROVIDE FLASHING AT ALL VALLEYS.
- ALL BLDGS. SHALL HAVE GUTTERS AND DOWNSPOUTS. REFER TO CIVIL DRAWINGS FOR DISCHARGE INTO STORM SEWER WITH PIPE UNDERGROUND.
- PROVIDE SCREENING AT ALL ROOF OPENINGS INTO THE ATTIC SPACE. OPENINGS IN SCREEN SHALL NOT EXCEED 1/4" DIA.
- ALL ROOF DECKING SHALL BE BONDED TO ROOF TRUSS WITH EXTERIOR GLUE.
- DOWNSPOUTS ARE TO BE 5" DIA. FIELD PAINT.
- BARREL TILE ROOF TO BE 'MONIER LIFETILE'.
- PROVIDE A VAPOR RETARDER HAVING A TRANSMISSION RATE NOT EXCEEDING 1 PERM INSTALLED ON WARM SIDE OF ATTIC INSULATION.
- ROOF TRUSS MANUFACTURER SHALL PROVIDE ENGINEERED, STAMPED SHOP DIMS. TO ARCHITECT, OWNER, & CONTRACTOR FOR APPROVAL PRIOR TO FABRICATION.
- ROOF TRUSS MANUFACTURER SHALL COORDINATE THE SIZE OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DWGS. AND MAKE ANY NECESSARY ADJUSTMENTS TO ACCOMMODATE INSTALLATION OF MECHANICAL EQUIPMENT WITHIN ATTIC SPACE.
- PROVIDE 2 LAYERS OF #30 FELT UNDERLAYMENT FOR 3 INCH PER FOOT ROOF SLOPE.

BUILDING 3000 ROOF PLAN



ATTIC VENTILATION REQUIRED (2003 IRC 1203.2)	YES	NO
VENTILATION TYPE:	<input checked="" type="checkbox"/> PASSIVE	<input type="checkbox"/> MECHANICAL
TOTAL AREA REQUIRED: CEILING AREA (SQ. IN.)	3,763,728 / 3000 = 12,546	
TOTAL AREA REQUIRED: 50% OF CEILING AREA (SQ. IN.)	12,546 x 50% = 6,273 SQ. IN.	
AREA REQUIRED AT SOFFIT	6,273 SQ. IN.	
OFF RIDGE VENT	72 @ 97.5 SQ. IN. = 7,020 SQ. IN.	
TOTAL AREA PROVIDED AT SOFFIT:	4,38 L. FT. @ 19 SQ. IN. / L. FT. = 8,322 SQ. IN.	
TOTAL AREA PROVIDED AT SOFFIT:	194.5 L. FT. @ 14 SQ. IN. / L. FT. = 2,723 SQ. IN.	

DOWNSPOUT CALCULATIONS
SLOPE FACTOR (5/12 ROOF) = 1.05
TOTAL AREA REQUIRED: DOWNSPOUT CAPACITY FACTOR (SQ. FT. ROOF/SQ. IN. SQ.) = 110 S.F.
AREA REQUIRED AT SOFFIT
MAXIMUM ROOF AREA PER DOWNSPOUT:
110 x 19.63 SQ. IN. / 1.05 = 2,028 S.F./DS
PIPE ALL DOWNSPOUTS TO STORM SEWER

