

Spartanburg School District 7

KITCHEN HOOD REPLACEMENT AT JESSE BOYD ELEMENTARY

1505 Fernwood Glendale Rd
Spartanburg, SC 29307

Issue Date/ Description: 2.22.21
MPS Project No: 020500.00
Agency Review ID:

OWNER

SPARTANBURG SCHOOL DISTRICT 7
610 DUPRE DR
SPARTANBURG, SC 29307
864-594-4400
WWW.SPARTANBURG7.ORG

DR. THOMAS WHITE

ARCHITECT

McMILLAN PAZDAN SMITH ARCHITECTURE
127 DUNBAR ST
SPARTANBURG, SC 29306
864-585-5678
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MR. DONNIE L. LOVE JR., AIA.

ROOFING

WM BUILDING ENVELOPE CONSULTANTS
1501 CHAPIN, SC 29306
(803) 260-4532
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CHRIS WAITES

STRUCTURAL

PARKS ENGINEERING ASSOCIATES, INC.
314 S. PINE STREET, UNIT 515
SPARTANBURG, SC 29304
(SWPARKS@HOTMAIL.COM)

STEVE PARKS

MECHANICAL

CROW AND BULMAN ENGINEERING
800 E. MAIN STREET
SPARTANBURG, SC 29302
(864) 585-9903
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HAMP CROW

ELECTRICAL

MATRIX ENGINEERING, INC.
912 S. PINE STREET
SPARTANBURG, SC 29302
(864) 583-6274
WWW.MATRIXEI.COM

ROBBIE McDADE

GENERAL	
G010	F3 FORM
G011	IEBC CODE INFO
ARCHITECTURAL	
A200	REFLECTED CEILING PLANS
ROOFING	
R100	ROOF PLANS
R200	DETAILS
STRUCTURAL	
S100	ROOF FRAMING & DETAILS
MECHANICAL	
HVAC-1	HVAC PLANS
HVAC-2	HVAC SCHEDULES AND DETAILS
ELECTRICAL	
E001	GENERAL NOTES, LEGENDS & EXISTING PANEL SCHEDULES
E100	KITCHEN HOOD REPLACEMENT DEMOLITION PLAN
E200	KITCHEN HOOD REPLACEMENT MECHANICAL POWER PLAN
E300	ELECTRICAL SPECIFICATIONS



SITE MAP



VICINITY MAP



CONSULTANT LOGO

SEALS



Spartanburg School District 7
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OSF CD REVIEW 2.22.21
PRINCIPAL IN CHARGE: DLL
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DRAWN BY:
SHEET TITLE:
COVER SHEET

SHEET NO. PROJ. NO.
020500.00

G001

CHAPTER 7 ALTERATIONS - LEVEL 1
2018 International Existing Building Code

SECTION 701 GENERAL

701.1	SCOPE	<input checked="" type="checkbox"/> Will Comply	<input type="checkbox"/> Not Applicable
701.2	CONFORMANCE	<input checked="" type="checkbox"/> Will Comply	<input type="checkbox"/> Not Applicable
701.3	FLOOD HAZARD AREAS	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
701.4	EMERGENCY ESCAPE AND RESCUE OPENINGS	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable

SECTION 702 BUILDING ELEMENTS AND MATERIALS

702.1	INTERIOR FINISHES	<input checked="" type="checkbox"/> Will Comply	<input type="checkbox"/> Not Applicable
702.2	INTERIOR FLOOR FINISHES	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
702.3	INTERIOR TRIM	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
702.4	WINDOW OPENING CONTROL DEVICES	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
702.5	REPLACEMENT WINDOW EMERGENCY ESCAPE AND RESCUE OPENINGS	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
702.6	MATERIALS AND METHODS	<input checked="" type="checkbox"/> Will Comply	<input type="checkbox"/> Not Applicable
702.6.1	INTERNATIONAL FUEL GAS CODE	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable

SECTION 703 FIRE PROTECTION

703.1	GENERAL	<input checked="" type="checkbox"/> Will Comply	<input type="checkbox"/> Not Applicable
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SECTION 704 MEANS OF EGRESS

704.1	GENERAL	<input checked="" type="checkbox"/> Will Comply	<input type="checkbox"/> Not Applicable
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SECTION 705 REROOFING

705.1	GENERAL	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
705.2	STRUCTURAL AND CONSTRUCTION LOADS	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
705.3	ROOF REPLACEMENT	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
705.3.1	ROOF RECOVER	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
705.3.1.1	EXCEPTIONS	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
705.4	ROOF RECOVERING	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
705.5	REINSTALLATION OF MATERIALS	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
705.6	FLASHINGS	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable

SECTION 706 STRUCTURAL

706.1	GENERAL	<input checked="" type="checkbox"/> Will Comply	<input type="checkbox"/> Not Applicable
706.2	ADDITIONAL OR REPLACEMENT OF ROOFING OR REPLACEMENT OF EQUIPMENT	<input checked="" type="checkbox"/> Will Comply	<input type="checkbox"/> Not Applicable
706.3	ADDITIONAL REQUIREMENTS FOR REROOF PERMITS	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
706.3.1	BRACING FOR UNREINFORCED MASONRY BEARING WALL PARAPETS	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
706.3.2	ROOF DIAPHRAGMS RESISTING WIND LOADS IN HIGH-WIND REGIONS	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable

SECTION 707 ENERGY CONSERVATION

707.1	MINIMUM REQUIREMENTS	<input type="checkbox"/> Will Comply	<input checked="" type="checkbox"/> Not Applicable
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JESSE BOYD KITCHEN HOOD REPLACEMENT

SPARTANBURG SCHOOL DISTRICT 7

BASIC CODE INFORMATION FOR EXISTING	
EXISTING OCCUPANCY	GROUP E - EDUCATION
CHANGE OF OCCUPANCY	NO
TYPE OF CONSTRUCTION	EXISTING BUILDING CONSTRUCTED UNDER THE STANDARD BUILDING CODE AS TYPE IV, UNPROTECTED, UNSPRINKLERED WITH NONCOMBUSTIBLE MATERIALS
SPRINKLERED?	NOT SPRINKLERED
NUMBER OF STORIES	1 LEVEL

AREA A-1

WORK AREA SQUARE FOOTAGE	871 SF EXISTING OF KITCHEN (WORK AREA)
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CONSULTANT LOGO

SEALS



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ALTERATIONS LEVEL 1 - WORK AREA
 NO WORK

ALTERATIONS LEVEL 1

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 DRAWN BY:

SHEET TITLE:
IEBC CODE INFO

SHEET NO. PROJ. NO.
 020500.00

G011

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REFLECTED CEILING PLAN LEGEND

ROOM TAG:
 A101 ROOM NUMBER

CEILING TAG:
 ACT CEILING SYSTEM (SEE ABBREV. LEGEND)
 10'-0" CEILING HEIGHT (ABOVE FINISHED FLOOR)

ABBREVIATION LEGEND:
 ACT ACOUSTIC CEILING TILE
 GB GYPSUM BOARD
 MR MOISTURE RESISTANT
 NR NOISE REDUCTION
 EXP EXPOSED
 CNP CANOPY
 WHC WALL HUNG CANOPY

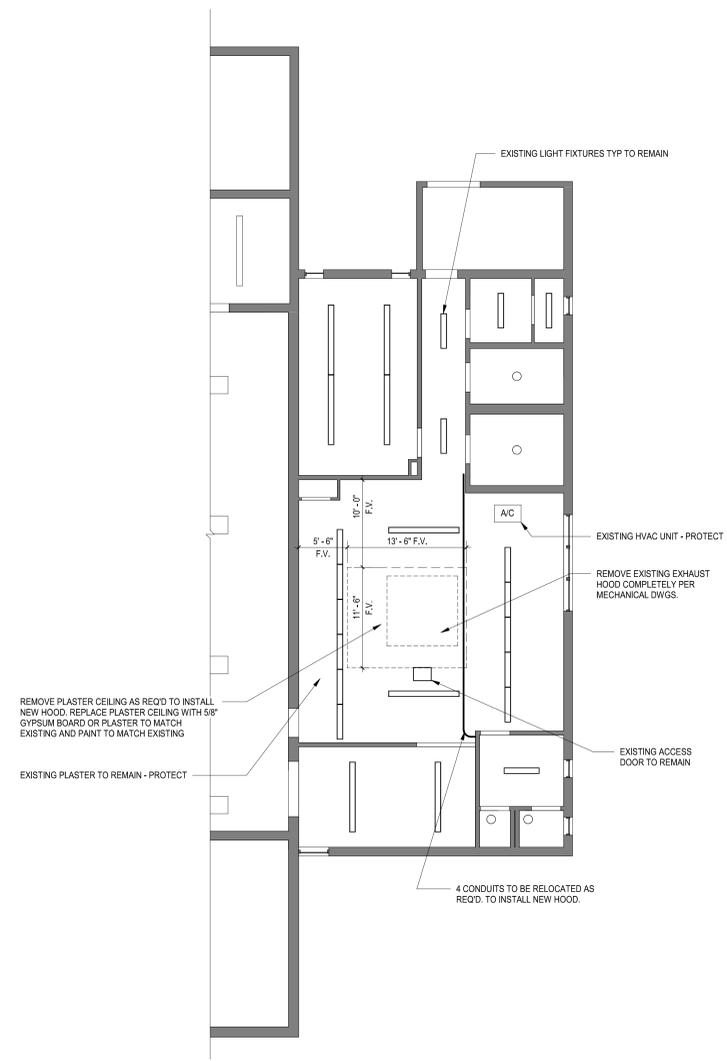
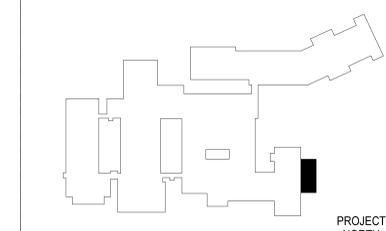
CEILING HATCH PATTERNS / SYMBOLS:
 [Hatch] CEILING EXPOSED TO STRUCTURE ABOVE, PAINTED UNLESS NOTED OTHERWISE
 [Grid] 2' x 2' ACOUSTICAL TILE CEILING
 [Dotted] GYPSUM BOARD CEILING
 [Square] CEILING MOUNTED ACOUSTICAL PANEL
 [Line] CUBICAL CURTAIN TRACK

SEE ELECTRICAL:
 [Symbol] EXIT SIGN - WALL MOUNTED (DIRECTIONAL ARROWS WHERE INDICATED)
 [Symbol] EXIT SIGN - CEILING MOUNTED (DIRECTIONAL ARROWS WHERE INDICATED)
 [Symbol] 2x4 LAY-IN LIGHT FIXTURE
 [Symbol] 2x4 LAY-IN EMERGENCY LIGHT FIXTURE
 [Symbol] 2x2 LAY-IN LIGHT FIXTURE
 [Symbol] 2x2 LAY-IN EMERGENCY LIGHT FIXTURE
 [Symbol] RECESSED DOWNLIGHT

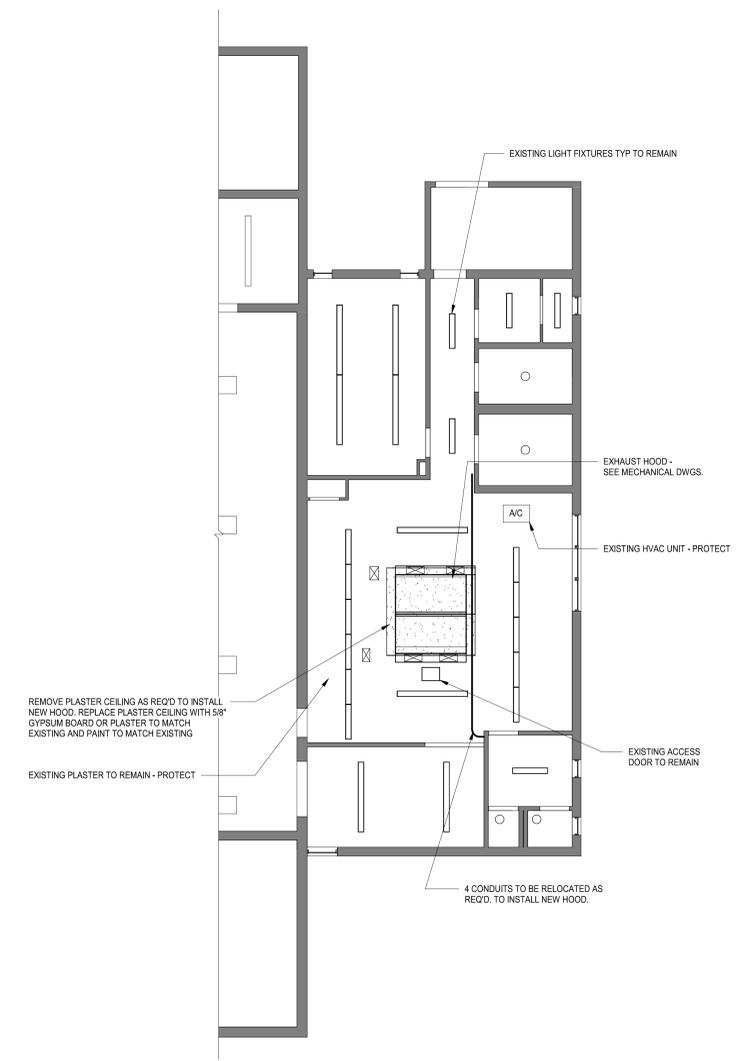
SEE MECHANICAL:
 [Line] LINEAR SUPPLY DIFFUSER
 [Symbol] ROUND SUPPLY DIFFUSER
 [Symbol] 2 x 2 SUPPLY DIFFUSER
 [Symbol] 2 x 2 RETURN DIFFUSER
 [Symbol] EXHAUST FAN

NOTE: OTHER DISCIPLINES SHOWN FOR COORDINATION PURPOSES ONLY. SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND TELECOMMUNICATION SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.

KEY PLAN



A3 REFLECTED CEILING DEMOLITION PLAN
 1/8" = 1'-0"



A4 REFLECTED CEILING PLAN
 1/8" = 1'-0"

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REFLECTED CEILING PLANS

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A200

SBS MODIFIED BITUMINOUS MEMBRANE ABBREVIATED ROOF SPECIFICATION NOTES:

INFORMATIONAL SUBMITTALS

- A. PRODUCT LITERATURE: FOR COMPONENTS OF MEMBRANE ROOFING SYSTEM, FROM ROOFING MANUFACTURER.
- B. CONTRACTOR'S WORKMANSHIP WARRANTY.

QUALITY ASSURANCE

- A. CONTRACTOR SHALL BE APPROVED BY THE ROOFING SYSTEM MANUFACTURER TO INSTALL THE MANUFACTURER'S PRODUCT AND THAT IS ELIGIBLE TO RECEIVE THE SPECIFIED MANUFACTURER'S WARRANTY.
- B. A COPY OF THE LATEST MANUFACTURER'S PRODUCT DATA AND INSTALLATION GUIDE SHALL BE KEPT ON THE ROOF AT ALL TIMES DURING INSTALLATION.

MANUFACTURERS

- A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING MANUFACTURERS.
 1. SIPLAST PARABASE FS

TORCH APPLIED BASE SHEETS (VAPOR RETARDER)

1. SIPLAST PARADIENE 20 TG

TORCH APPLIED BASE SHEETS

1. SIPLAST PARADIENE 20 HV TG BASE SHEET

COLD APPLIED BASE SHEETS

1. SIPLAST PARADIENE 20

TORCH APPLIED CAP SHEET

1. SIPLAST PARADIENE 30 FR TG CAP SHEET.

COLD APPLIED CAP SHEET

1. SIPLAST PARADIENE 30 FR CAP SHEET.

ROOFING SHEET MATERIALS

- A. ROOFING MEMBRANE BASE SHEET: ASTM D 6163, GRADE S, TYPE I, SBS-MODIFIED ASPHALT SHEET (REINFORCED WITH GLASS FIBERS) SMOOTH SURFACED; MINIMUM 118 MILS, SUITABLE FOR APPLICATION METHOD SPECIFIED.
- B. GRANULE-SURFACED ROOFING CAP SHEET: ASTM D 6162 OR ASTM D 6164, GRADE G, TYPE I, SBS-MODIFIED ASPHALT SHEET (REINFORCED WITH GLASS FIBERS/POLYESTER AND REINFORCED WITH POLYESTER); GRANULE SURFACED; MINIMUM 150 MILS, SUITABLE FOR APPLICATION METHOD SPECIFIED.

BASE FLASHING SHEET MATERIALS

- A. SAME MATERIALS AS INSTALLED IN ROOF SYSTEM UNLESS ROOF MANUFACTURER'S REQUIREMENTS REQUIRE DIFFERING SHEETS TO BE PROVIDED FOR THE BASE FLASHING (IE. POLYESTER BASE FLASHING CAP SHEET PLY).
- B. LIQUID APPLIED FLASHING PER THE MANUFACTURER'S REQUIREMENTS WILL BE INSTALLED AT SELECT LOCATIONS AS DETERMINED BY THE OWNER.

INSTALLATION, GENERAL

- D. COMPLY WITH ROOFING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS.
- E. INSTALL ROOFING ACCORDING TO ROOFING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPLICABLE RECOMMENDATIONS IN ARMA/NRCA'S "QUALITY CONTROL GUIDELINES FOR THE APPLICATION OF POLYMER MODIFIED BITUMEN ROOFING".
- F. TEMPORARY PROTECTION TO BE PROVIDED IN ALL AREAS WHERE COMPLETE DETAIL IS NOT COMPLETED DAILY. ALL TEMPORARY PROTECTION TO BE WATERTIGHT.

FLASHING AND STRIPPING INSTALLATION

- A. INSTALL BASE PLY OF BASE FLASHING OVER CANT STRIPS AND ONTO BASE SHEET PRIOR TO THE INSTALLATION OF THE CAP SHEET. INSTALL CAP PLY OF BASE FLASHING AFTER THE INSTALLATION OF THE CAP SHEET AND SECURE TO SUBSTRATE A MINIMUM OF 8 INCHES ON CENTER. PROVIDE 3 COURSE MASTIC AND FABRIC OVER THE TOP TERMINATION OF THE BASE FLASHING.

1. CUT SHEETS FROM END OF ROLL FOR MAXIMUM 36" WIDTHS. INSTALL FREE OF VOIDS AND WRINKLES.
2. PROVIDE BASE PLY AND CAP PLY OF BASE FLASHING SIMILAR TO ROOF MEMBRANE INSTALLATION.
3. SEPARATE LAPS BETWEEN BASE PLY AND CAP PLY. EXTEND CAP PLY A MINIMUM OF 3" BEYOND BASE ONTO ROOF SURFACE.

- B. EXTEND BASE FLASHING A MINIMUM OF 8 INCHES ABOVE ROOFING MEMBRANE AND 6 INCHES ONTO FIELD OF ROOFING MEMBRANE.

- C. MECHANICALLY FASTEN TOP OF BASE FLASHING SECURELY AT TERMINATIONS AND PERIMETER OF ROOFING A MINIMUM OF 8" ON CENTER USING APPROPRIATE FASTENERS FOR SUBSTRATE MATERIAL.

- D. INSTALL ROOFING CAP-SHEET STRIPPING WHERE METAL FLANGES AND EDGINGS ARE SET ON ROOFING ACCORDING TO ROOFING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS.

SHEET METALS (MATERIAL)

- A. STAINLESS-STEEL SHEET: ASTM A 240/A 240M OR ASTM A 666, TYPE 304, DEAD SOFT, FULLY ANNEALED; WITH SMOOTH, FLAT SURFACE. MINIMUM THICKNESS 24 GAUGE.
 1. PITCH PAN / UMBRELLAS

MISCELLANEOUS MATERIALS

- A. GENERAL: PROVIDE MATERIALS AND TYPES OF FASTENERS, SOLDER, PROTECTIVE COATINGS, SEALANTS, AND OTHER MISCELLANEOUS ITEMS AS REQUIRED FOR COMPLETE SHEET METAL FLASHING AND TRIM INSTALLATION AND AS RECOMMENDED BY MANUFACTURER OF PRIMARY SHEET METAL UNLESS OTHERWISE INDICATED.

FABRICATION, GENERAL

- A. GENERAL: CUSTOM FABRICATE SHEET METAL FLASHING AND TRIM TO COMPLY WITH DETAILS SHOWN AND RECOMMENDATIONS IN CITED SHEET METAL STANDARD THAT APPLY TO DESIGN, DIMENSIONS, GEOMETRY, METAL THICKNESS, AND OTHER CHARACTERISTICS OF ITEM REQUIRED. FABRICATE SHEET METAL FLASHING AND TRIM IN SHOP TO GREATEST EXTENT POSSIBLE.

1. OBTAIN FIELD MEASUREMENTS FOR ACCURATE FIT BEFORE SHOP FABRICATION.
2. FORM SHEET METAL FLASHING AND TRIM TO FIT SUBSTRATES WITHOUT EXCESSIVE OIL CANNING, BUCKLING, AND TOOL MARKS; TRUE TO LINE, LEVELS, AND SLOPES; AND WITH EXPOSED EDGES FOLDED BACK TO FORM HEMS.
3. CONCEAL FASTENERS AND EXPANSION PROVISIONS WHERE POSSIBLE. DO NOT USE EXPOSED FASTENERS ON FACES EXPOSED TO VIEW.

- B. SEAMS: FABRICATE NONMOVING SEAMS WITH FLAT-LOCK SEAMS. FORM SEAMS AND SEAL WITH ELASTOMERIC SEALANT UNLESS OTHERWISE RECOMMENDED BY SEALANT MANUFACTURER FOR INTENDED USE. RIVET JOINTS WHERE NECESSARY FOR STRENGTH.

- C. PIPE OR POST COUNTERFLASHING: INSTALL COUNTERFLASHING UMBRELLA WITH CLOSE-FITTING COLLAR WITH TOP EDGE FLARED FOR ELASTOMERIC SEALANT, EXTENDING MINIMUM OF 3 INCHES OVER BASE FLASHING. INSTALL STAINLESS-STEEL DRAW BAND AND TIGHTEN.

- D. ROOF-PENETRATION FLASHING: COORDINATE INSTALLATION OF ROOF-PENETRATION FLASHING WITH INSTALLATION OF ROOFING AND OTHER ITEMS PENETRATING ROOF. SEAL WITH SEALANT AND CLAMP FLASHING TO PIPES THAT PENETRATE ROOF.

CLEANING AND PROTECTION

- A. CLEAN EXPOSED METAL SURFACES OF SUBSTANCES THAT INTERFERE WITH UNIFORM OXIDATION AND WEATHERING.

- B. CLEAN OFF EXCESS SEALANTS.

- C. REMOVE TEMPORARY PROTECTIVE COVERINGS AND STRIPPABLE FILMS AS SHEET METAL FLASHING AND TRIM ARE INSTALLED UNLESS OTHERWISE INDICATED IN MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

DRAWING LEGEND

	ROOF CURB
	RELIEF VENT
	VENT THROUGH ROOF
	VENTILATOR
	ROOF CURB WITH HOOD
	DUCT PENETRATION / ROOF CURB
	ROOF PERIMETER
	ROOF PERIMETER AT ROOF SYSTEM NOT IN CONTRACT

EXISTING ROOF CORE SUMMARY

	CORE NUMBER AND IDENTIFIER
	FLASHING NUMBER AND IDENTIFIER
R1	GYPSUM ROOF DECK LIGHTWEIGHT INSULATING CONCRETE MODIFIED BITUMEN BASE SHEET MODIFIED BITUMEN CAP SHEET
R2	GYPSUM ROOF DECK LIGHTWEIGHT INSULATING CONCRETE MODIFIED BITUMEN BASE SHEET MODIFIED BITUMEN CAP SHEET



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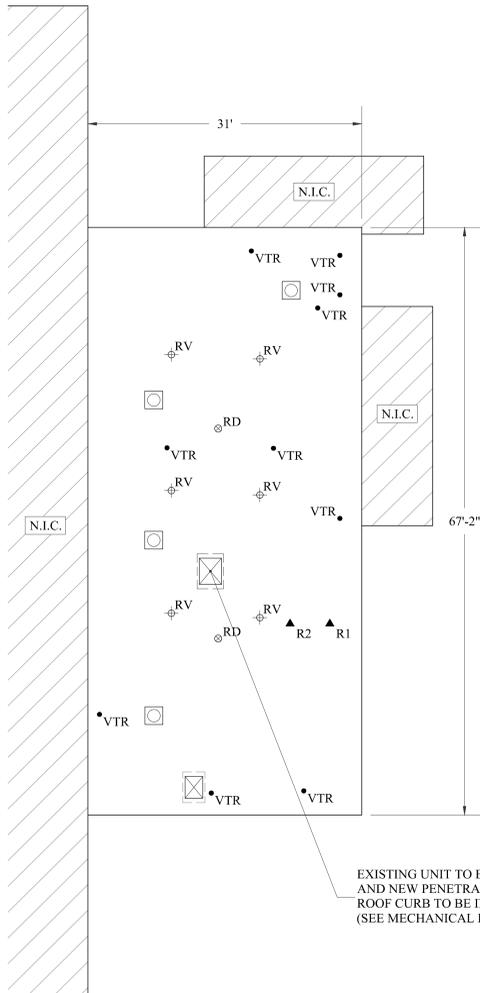
SHEET NO.	DATE	DESCRIPTION	BY
1	2.22.21	OSF CD REVIEW	DA

OSF CD REVIEW 2.22.21
 PRINCIPAL IN CHARGE: Principal Architect
 PROJECT ARCHITECT: Architect
 DRAWN BY: Author

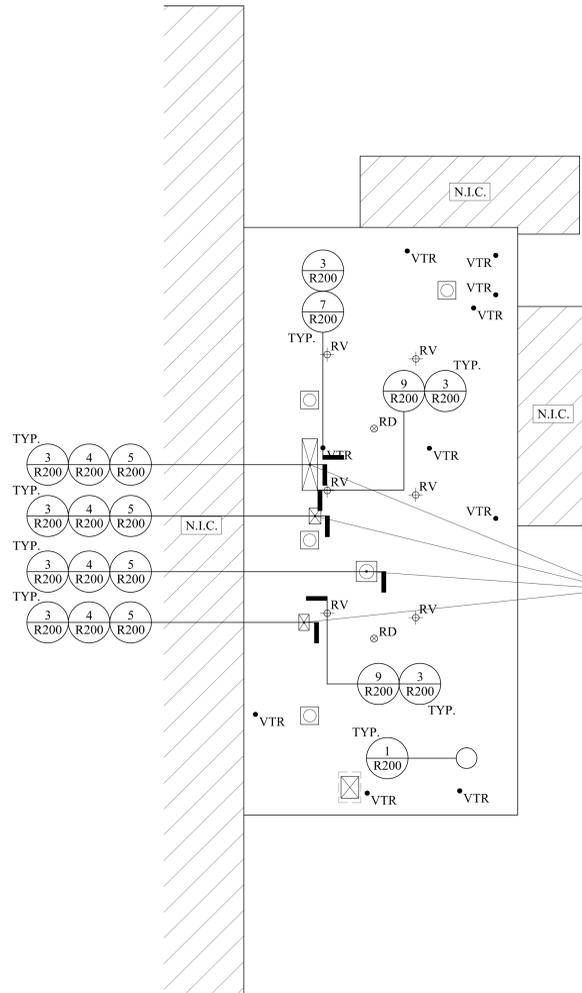
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SHEET NO. PROJ. NO. 026500.00

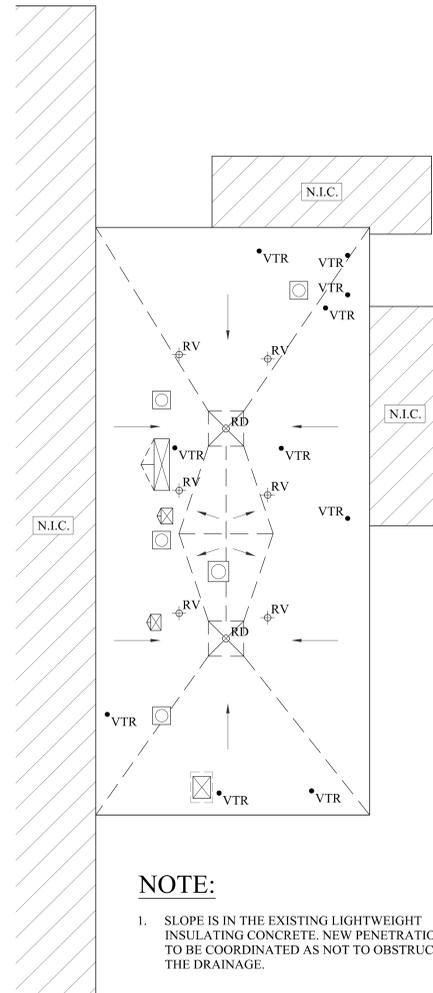
R100



EXISTING ROOF PLAN
 R100 1/8" = 1'-0"



NEW ROOF PLAN
 R100 1/8" = 1'-0"

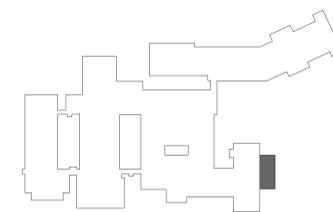


TAPER ROOF PLAN
 R100 1/8" = 1'-0"

NOTE:

1. SLOPE IS IN THE EXISTING LIGHTWEIGHT INSULATING CONCRETE. NEW PENETRATIONS TO BE COORDINATED AS NOT TO OBSTRUCT THE DRAINAGE.

KEY PLAN



GENERAL NOTES - STRUCTURAL

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR ARCHITECT OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR THESE GENERAL NOTES BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN ALL CASES, UNLESS OTHERWISE DIRECTED, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN AND BE PERFORMED.
- THE ENGINEER IS NOT RESPONSIBLE FOR MEANS OR METHODS OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS ON THE DRAWINGS. COORDINATE LOCATIONS OF OPENINGS THROUGH FLOORS, ROOFS AND WALLS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- VISITS TO THE JOB SITE BY THE ENGINEER OR HIS REPRESENTATIVE DO NOT CONSTITUTE APPROVAL OF THE WORK PERFORMED BY THE CONTRACTOR OR HIS SUBCONTRACTORS.
- SHOP DRAWINGS FOR ANY FABRICATED COMPONENTS OR COMPONENTS DESIGNED-BY-MANUFACTURER SHALL BE REVIEWED FOR COMPLIANCE BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE ARCHITECT OR ENGINEER FOR APPROVAL. APPROVAL BY THE ARCHITECT OR ENGINEER MUST BE GIVEN PRIOR TO FABRICATION OR ERECTION OF ANY SUCH COMPONENTS. SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT LOCATION.
- DURING AND AFTER CONSTRUCTION, THE CONTRACTOR AND OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LIVE LOADS FOR THE OCCUPANCY. SEE "STRUCTURAL DESIGN CRITERIA".

STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL, UNLESS NOTED, SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992, GRADE 50. STRUCTURAL STEEL TUBE TO BE ASTM A500, GRADE B, 46 KSI.
- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION.
- UNLESS OTHERWISE NOTED, ALL SHOP CONNECTIONS SHALL BE MADE BY WELDING OR HIGH STRENGTH BOLTING. (A325 OR A490 BOLTS.)
- WELDS SHALL BE MADE IN ACCORDANCE WITH AWS STANDARDS BY A CERTIFIED WELDER USING E-70 ELECTRODES.
- UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIA. HIGH STRENGTH BOLTS (ASTM A325-N). CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE WITH THREADS IN SHEAR PLANE.
- GUSSET PLATES SHALL BE 3/8" THICK MINIMUM.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF EXISTING CONSTRUCTION WHICH AFFECTS NEW CONSTRUCTION PRIOR TO SUBMISSION OF SHOP DRAWINGS.
- STRUCTURAL STEEL SURFACES TO BE PREPARED ACCORDING TO SSPC-SP3 "POWER TOOL CLEANING". EXCEPT FOR GALVANIZED FINISHED AND SURFACES TO BE EMBEDDED IN CONCRETE. SPRAYED-ON FIREPROOFING OR MASONRY. APPLY SHOP PRIMER TO UNCOATED SURFACES TO A DRY FILM THICKNESS OF 3.0 MILS MINIMUM.
- UNLESS OTHER PROVISIONS ARE MADE (SEE 4/S100), ALL CONCENTRATED LOADS BEARING ON STEEL JOISTS SHALL BE LOCATED WITHIN 3" OF A PANEL POINT.

SPECIAL INSPECTIONS AND STRUCTURAL TESTING

- A QUALIFIED SPECIAL INSPECTOR SHALL BE RETAINED BY THE OWNER TO PERFORM NECESSARY SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, SPECIFICATIONS AND DESIGN DRAWINGS TO THE TESTING AGENCY. TESTING REPORTS SHALL BE SUBMITTED TO EOR NO MORE THAN TWO WEEKS AFTER TESTS ARE PERFORMED.

THE FOLLOWING CONSTRUCTION AND ELEMENTS OF CONSTRUCTION SHALL BE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE 2015 IBC:

STRUCTURAL WELDING (per 1705.2.1 & AISC 360 Chapter N)

- ALL STRUCTURAL STEEL SHALL BE FABRICATED BY A FABRICATOR APPROVED AND REGISTERED IN ACCORDANCE WITH 2018 IBC 1704.2.5.

11 General Notes

STRUCTURAL DESIGN CRITERIA

CODES

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL EXISTING BUILDING CODE
ANSI/ASCE 7-10

RISK CATEGORY (per IBC Table 1604.5) III

DESIGN LOADS:

ROOF

LIVE LOAD = 20 PSF
GROUND SNOW LOAD = 10 PSF
WIND: (PER ANSI/ASCE 7-10)
ULTIMATE DESIGN WIND SPEED, $V_{ult} = 115$ MPH
NOMINAL DESIGN WIND SPEED, $V_{asd} = 89$ MPH
EXPOSURE CATEGORY B
RISK CATEGORY III
ENCLOSED BUILDING

COMPONENTS & CLADDING:

WALLS (area > 500 sf)
NEGATIVE ZONE 4 & 5 = -18.6 PSF
POSITIVE ZONES 4 & 5 = 16.7 PSF
ROOF (area > 100 sf)
NEGATIVE ZONE 1 = -22.3 PSF
NEGATIVE ZONE 2 = -26.4 PSF
NEGATIVE ZONE 3 = -26.4 PSF
POSITIVE ALL ZONES = 16.0 PSF

SEISMIC:

$S_{ds} = 0.284$
 $S_{d1} = 0.168$
OCCUPANCY CATEGORY III $I = 1.25$
SEISMIC DESIGN CATEGORY C
SITE CLASS D

10 Structural Design Criteria

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: Kitchen Hood Replacement at Jesse Boyd Elementary
LOCATION: Spartanburg, SC
PERMIT APPLICANT:
APPLICANT'S ADDRESS:
ARCHITECT OF RECORD: Stephen Parks, P.E.
MECHANICAL ENGINEER OF RECORD:
ELECTRICAL ENGINEER OF RECORD:
REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: 2018

This Statement of Special Inspections is submitted in accordance with Section 1704.3 of the 2018 International Building Code. It includes a Schedule of Special Inspection Services applicable to the above-referenced Project as well as the identity of the individual, agency, or firm intended to be retained for conducting these inspections. If applicable, it includes Requirements for Systems Assistance and Requirements for Wind Resistance. SEE NOTES SHEET S100.

Are Requirements for System Assistance included in the Statement of Special Inspections? Yes No
Are Requirements for Wind Resistance included in the Statement of Special Inspections? Yes No

The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the Building Official and to the Registered Design Professional in Responsible Charge at a frequency agreed upon by the Design Professional and the Building Official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge prior to completion of that phase of work. A final Report of Special Inspections documenting required special inspections and corrections of any discrepancies noted in the inspections shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge at the conclusion of the project.

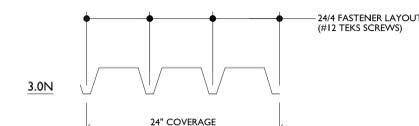
Frequency of interim report submission to the Registered Design Professional in Responsible Charge:
Weekly Bi-Weekly Monthly Other, specify: _____

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared by:
Stephen Parks, P.E.
Type or profession: _____
Signature: _____ Date: 02/22/2021
Building Official's Acceptance: _____
Signature: _____ Date: _____
Permit Number: _____
Frequency of interim report submission to the Building Official:
Monthly Bi-Monthly Upon Completion Other, specify: _____

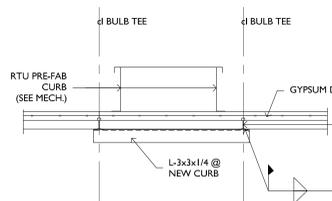


5 Statement of Special Inspections

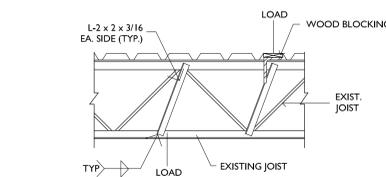


9 Detail - Deck Fastener Layout

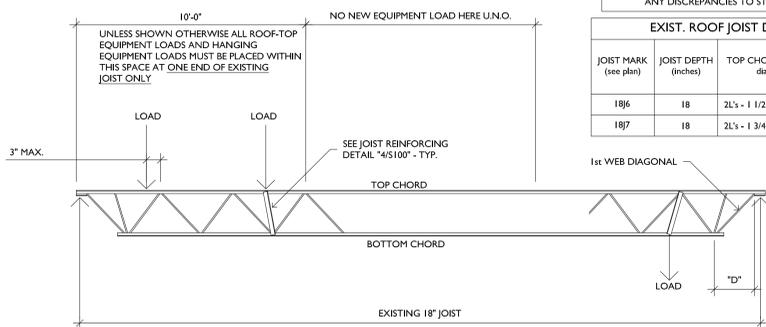
- NOTES:
- WELDING OF DECK IS NOT PERMITTED
 - MECHANICALLY FASTEN SIDELAPS w/ MIN. #10 SCREWS AS FOLLOWS:
SPANS < OR = 5' - 2 SIDELAP FASTENERS
SPANS > 5' - 3 SIDELAP FASTENERS



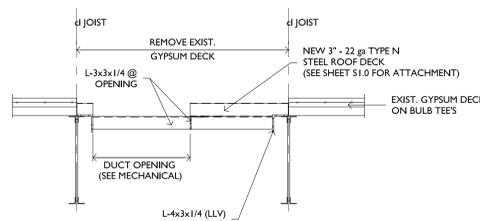
5 Detail - Curb Support @ MAU-1



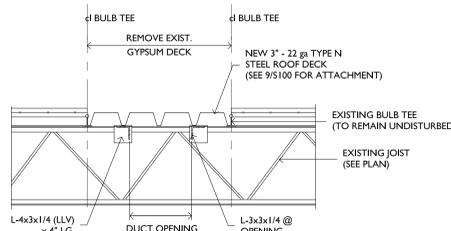
4 Section - Joist Reinforcing



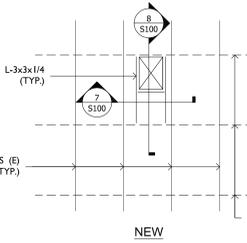
2 Joist Loading Diagram



8 Section



7 Section

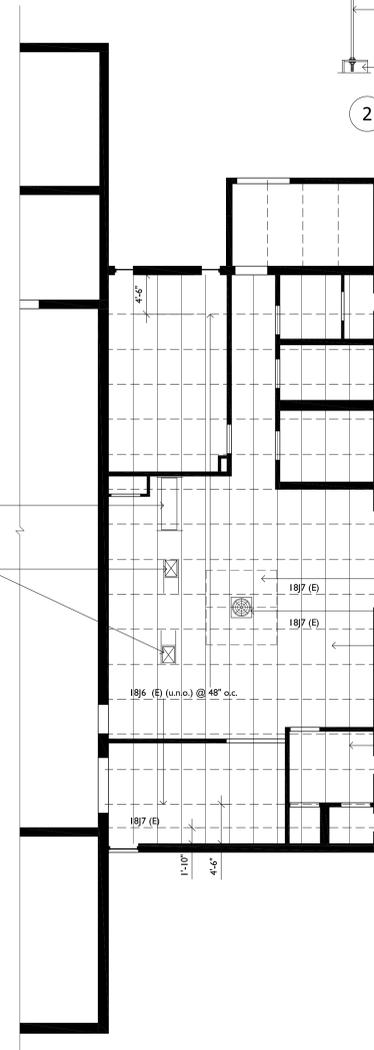


3 Enlarged Plan @ New Roof Opening

NOTE: PRIOR TO PLACING ROOF-TOP EQUIPMENT OR HOODS, CONTRACTOR TO FIELD VERIFY THE FOLLOWING JOIST INFORMATION AND PROVIDE ANY DISCREPANCIES TO STRUCTURAL ENGINEER.

EXIST. ROOF JOIST DATA (must be field verified by Contractor)

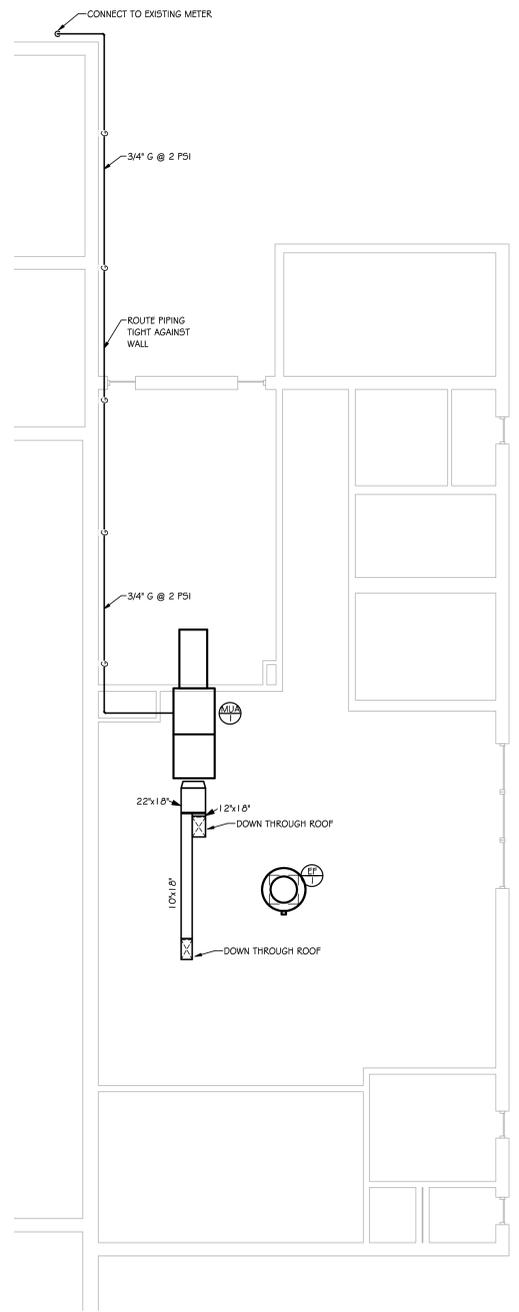
JOIST MARK (see plan)	JOIST DEPTH (inches)	TOP CHORD SIZE (see diagram)	BOTTOM CHORD SIZE (see diagram)	FIRST WEB DIAGONAL (see diagram)	DISTANCE "D" (approx. distance to 1st bottom chord panel point, in.)
1876	18	2 1/2 x 1 1/2 x 1 1/2 x 3/16	2 1/2 x 1 1/4 x 1 1/4 x 3/16	3/4" O	20
1877	18	2 1/2 x 1 3/4 x 1 3/4 x 3/16	2 1/2 x 1 1/2 x 1 1/2 x 3/16	13/16" O	20



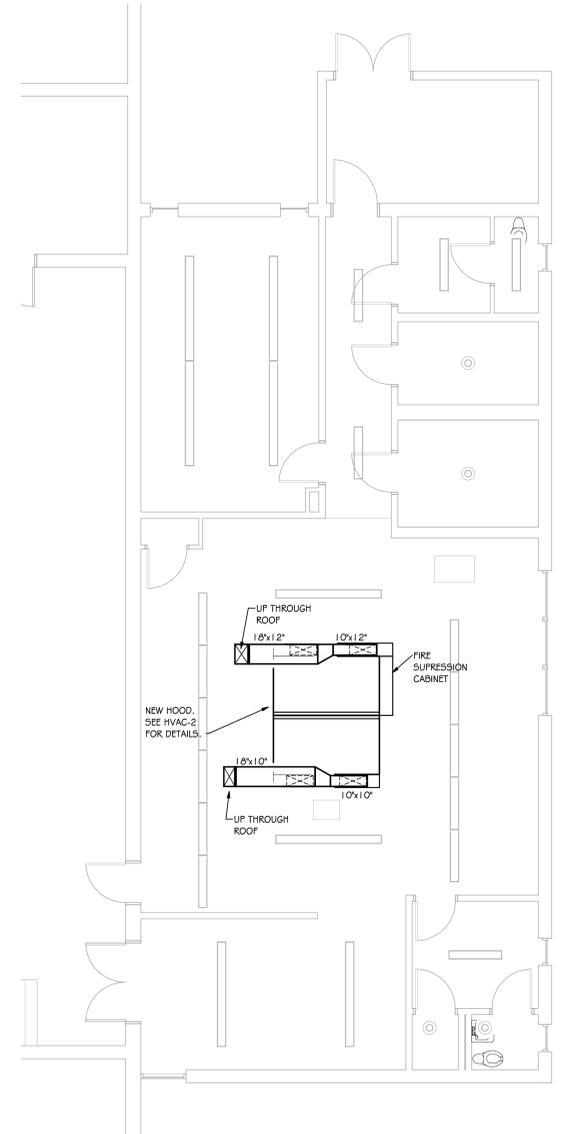
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- SYMBOLS:**
- G GAS
 - ⊕ BALL VALVE (2" AND SMALLER)
 - VD VOLUME DAMPER
 - CO CLEAN OUT

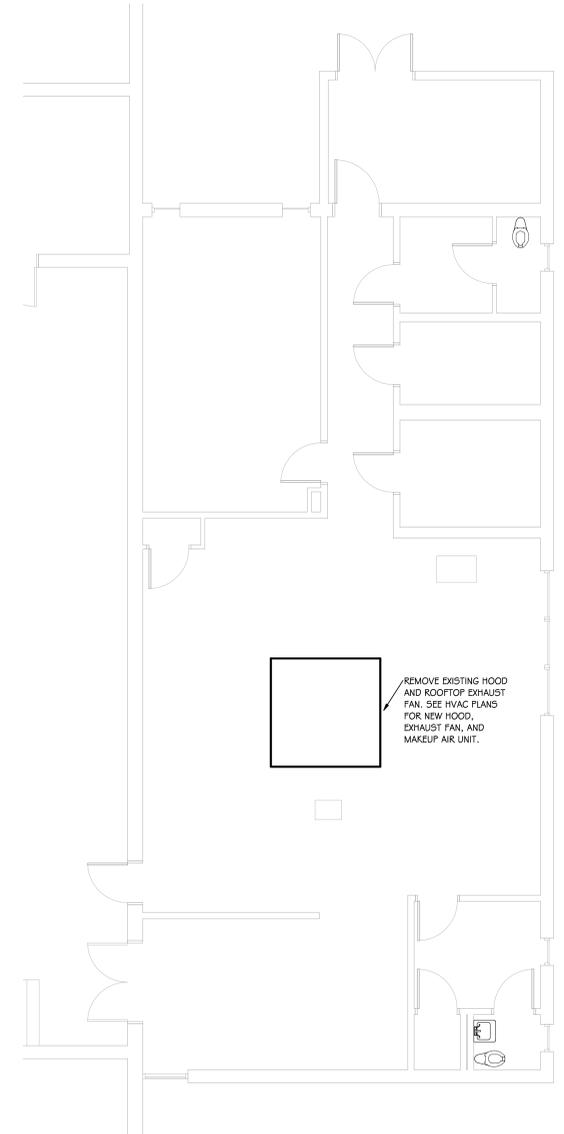
- GENERAL NOTES:**
- PROVIDE 27" MIN CLEARANCE AT FILTER HOUSINGS FOR FILTER REMOVAL.
 - FIELD COORDINATE ROUTING OF DUCTWORK PRIOR TO DUCTWORK FABRICATION.



ROOF PLAN
3/16" = 1'-0"



NEW FLOOR PLAN
3/16" = 1'-0"



DEMO PLAN
3/16" = 1'-0"

Spartanburg School District 7

**KITCHEN HOOD REPLACEMENT AT
JESSE BOYD ELEMENTARY**

1565 Fernwood Glendale Rd.
Spartanburg, SC 29307

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

OSF CD REVIEW 2/22/21
 PRINCIPAL IN CHARGE: WHC
 PROJECT ENGINEER: WHC
 DRAWN BY: WHC

SHEET TITLE:
HVAC PLANS

SHEET NO. PROJ. NO.
2031

HVAC-1



Spartanburg School District 7
**JESSE BOYD ELEMENTARY AT
KITCHEN HOOD REPLACEMENT**

1505 Fernwood Glenhale Rd
Spartanburg, SC 29307

NO.	DATE	DESCRIPTION	BY
0	02.22.21	OSF REVIEW	RM

OSF REVIEW 2.22.21
PRINCIPAL IN CHARGE: HPB
PROJECT ENGINEER: RM
DRAWN BY: RP, RB, RM

SHEET TITLE:
**GENERAL NOTES, LEGENDS &
EXISTING PANEL SCHEDULES**

SHEET NO. PROJ. NO.
2021-007

E001

POWER LEGEND

- 20A, 125V, 2P, NEMA 5-20R DUPLEX RECEPTACLE MOUNTED IN SINGLE GANG DEVICE BOX. MOUNT 20" AFF TO TOP OF DEVICE BOX UNLESS NOTED OTHERWISE.
- ADJACENT TO RECEPTACLE, DENOTES GROUND FAULT INTERRUPTER RECEPTACLE (FEED THRU TYPE).
- ADJACENT TO RECEPTACLE, INDICATES WEATHERPROOF IN-USE TYPE COVER TO BE INSTALLED.
- ADJACENT TO RECEPTACLE, INDICATES WEATHER RESISTANT TYPE RECEPTACLE.
- LIGHTING OR RECEPTACLE PANEL BOARD.
- NON-FUSED DISCONNECT SWITCH.
- FUSED DISCONNECT SWITCH. FUSED AS NOTED.
- ADJACENT TO DEVICE, DENOTES DISCONNECT SWITCH FURNISHED WITH EQUIPMENT BY MANUFACTURER.
- MOTOR STARTER OR VFD.
- EXHAUST FAN, SEE MECHANICAL DRAWINGS FOR FAN SPECIFICATIONS.
- MOTOR, HORSE POWER AS SHOWN.
- PNL (##) "HOME-RUN" TO PANEL BOARD.

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE 2017 VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL CODES, LAWS, AND ORDINANCES. WHERE ONE CODE DIFFERS FROM ANOTHER, THE STRICTER OF THE TWO SHALL APPLY.
2. IT IS THE DUTY OF THE ELECTRICAL CONTRACTOR TO BE FAMILIAR WITH THE CONSTRUCTION DETAILS OF THE BUILDING. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL SYSTEM WITH ALL OTHER TRADES AND SHALL COMPLETE THE ELECTRICAL INSTALLATION AS SOON AS CONDITIONS WILL ALLOW.
3. ALL WORK SHALL BE DONE IN A NEAT, QUALITY MANNER WITH ALL WIRING AND RACEWAYS CONCEALED.
4. ALL ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES WORKING ON THE PREMISES.
5. ELECTRICAL CONTRACTOR SHALL CONTACT THE ARCHITECT AFTER INSTALLATION OF ALL SWITCH, RECEPTACLE, TELEPHONE, TELEVISION, AND LIGHTING BOXES FOR AN ON-SITE REVIEW BEFORE ANY WIRING IS INSTALLED OR WALL SURFACES ARE COMPLETE. THE ARCHITECT MAY, AT THIS POINT, MAKE ADJUSTMENTS TO THE BOX LOCATIONS AS DESIRED.
6. WHERE CONDUIT AND WIRING HAS NOT BEEN SHOWN ON THE DRAWINGS THE ARRANGEMENT AND ROUTING OF LIGHTING AND RECEPTACLE BRANCH CIRCUITS WILL BE AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED GOOD PRACTICE, N.E.C. REQUIREMENTS AND THE FOLLOWING LIMITATIONS:
 - A. SIZE BRANCH CIRCUIT CONDUCTORS WITHIN THE FOLLOWING MAXIMUM LENGTH LIMITS: (MEASURE TO THE CENTER OF THE LOAD FOR LIGHTING CIRCUITS AND THE MOST REMOTE OUTLET FOR RECEPTACLE CIRCUITS)

	#12	#10	#8	#6
120V, 20A	85'	110'	165'	270'
277V, 20A	180'	250'	390'	600'
7. THIS PROJECT TO MEET NFPA 72 AND ADA REQUIREMENTS REGARDING MOUNTING HEIGHTS OF ELECTRICAL DEVICES.
8. RECESSED LIGHTING FIXTURES MUST HAVE 1/2" CLEARANCE FROM COMBUSTIBLE MATERIALS AND 3" CLEARANCE FROM INSTALLATION OR BE IC RATED PER ARTICLE 410.116 (A) 1 AND 2 AND 410.116 (B) OF THE 2017 NEC.
9. DURING CONSTRUCTION OPERATIONS, THE ELECTRICAL CONTRACTOR SHALL FAITHFULLY MAKE A RECORD OF ALL APPROVED CHANGES FROM THE CONTRACT DRAWINGS, INCLUDING ACCURATE DIMENSIONS WHERE APPLICABLE, AND SHALL ALSO RECORD ACCURATE DIMENSIONS LOCATING ALL BELOW-GRADE OUTSIDE ELECTRICAL UTILITIES (WHETHER CHANGED OR NOT) WITH REFERENCE TO PERMANENT ABOVE-GRADE OBJECTS. AT THE COMPLETION OF THE WORK ALL SUCH CHANGES SHALL BE RECORDED NEATLY IN RED INK BY THE ELECTRICAL CONTRACTOR ON AN UNUSED SET OF THE ELECTRICAL CONTRACT DRAWINGS SUPPLIED BY THE ARCHITECT. THE RED LINE CHANGES SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND THE COMPLETED RECORD PRINTS RETURNED TO THE ARCHITECT.
10. MINIMUM SIZE CONDUIT FOR 20A CIRCUITS IS 3/4" CONDUIT FOR METALLIC AND PVC CONDUIT.
11. ALL PRE-WIRED EQUIPMENT MUST BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY PER ARTICLE 110.3 (A AND B) OF THE 2017 NEC.
12. THE TERMINATION PROVISIONS OF EQUIPMENT MUST BE USED IN DETERMINING THE AMPACITIES OF CONDUCTORS BASED ON TABLE 310.16 REGARDLESS OF THE INSTALLATION RATING OF THE CONDUCTORS PER ARTICLE 110.14 (C) 1 AND 2 OF THE 2017 NEC.
13. FLASH PROTECTION WARNING LABELS REQUIRED ON SWITCHBOARDS, PANEL BOARDS, AND MOTOR CONTROL CENTERS PER ARTICLE 110.16 OF THE 2017 NEC.
14. SPACES ABOUT ELECTRICAL EQUIPMENT MUST MEET 110.26 (A THROUGH F) ARTICLE 2017 NEC.
15. RACEWAYS AND CABLES INSTALLED ABOVE SUSPENDED CEILING REQUIRED TO HAVE INDEPENDENT SUPPORT WIRES. CEILING GRID WIRES CANNOT BE USED TO SUPPORT RACEWAY AND CABLES UNLESS CEILING GRID IS RATED FOR SUPPORT PER ARTICLE 300.11 OF THE 2017 NEC.
16. TYPE NM, NMC AND NMS CABLES CANNOT BE USED ABOVE SUSPENDED CEILING PER ARTICLE 334.12 OF THE 2017 NEC.
17. FLEXIBLE CORDS CANNOT BE USED AS A SUBSTITUTE FOR FIXED WIRE OR CONCEALED ABOVE SUSPENDED CEILING PER ARTICLE 400.12 (1) AND (5) PER THE 2017 NEC.
18. INDIVIDUAL UNIT EQUIPMENT USED FOR EXIT SIGNS AND EMERGENCY LIGHTS THAT USES A RECHARGEABLE BATTERY MUST BE SUPPLIED BY THE CIRCUIT THAT SUPPLIES THE NORMAL LIGHTING FOR THAT AREA PER ARTICLE 700.12 (F) AND 700.17 OF THE 2017 NEC.

EXISTING PANEL "B" (AFTER RENOVATION)

480/277 VOLT, 225 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
GENERAL ELECTRIC PANEL TYPE #NH8-2A

CONN LOAD	CIRCUIT USE	S N	225A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	EXISTING LIGHTING	1		2	EXISTING LIGHTING	1000	2000		
1000	EXISTING LIGHTING	3		4	SPARE 20A BREAKER	1000		2000	
	EXISTING SHUT TRIP	5		6	SPARE 20A BREAKER	OFF			
		7		8		OFF			
		9		10		OFF			
OFF	EXISTING 20A BREAKER	11		12	EXISTING BOTTOM OVEN	1920			1920
OFF		13		14		1920	1920		
OFF		15		16		1920	1920		
1920	EXISTING BURNER	17		18	EXISTING TOP OVEN	1920			3840
1920		19		20		1920	3840		
1920		21		22		1920		3840	
OFF	EXISTING 70A BREAKER	23		24	EXISTING DISH MACHINE	1920			1920
OFF		25		26		1920	1920		
OFF		27		28		1920		1920	
832	NEW HOOD EXHAUST FAN (EF-1)	29		30	EXISTING 70A BREAKER	OFF			832
832		31		32		OFF	832		
832		33		34		OFF		832	
1331	NEW HVAC UNIT MJA-1	35		36	EXISTING 70A BREAKER	OFF			1331
1331		37		38		OFF	1331		
1331		39		40		OFF		1331	

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE UPDATED TYPED PANEL SCHEDULE REFLECTING ADDITIONS/REVISIONS.
- * DENOTES NEW CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. AIC RATING TO MATCH EXISTING.

PHASE A	11843		
PHASE B		11843	
PHASE C			9843
TOTAL VA	33529		
CONNECTED AMPERAGE	41 AMPERES		

EXISTING PANEL "B" (BEFORE RENOVATION)

480/277 VOLT, 225 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
GENERAL ELECTRIC PANEL TYPE #NH8-2A

CONN LOAD	CIRCUIT USE	S N	225A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	EXISTING LIGHTING	1		2	EXISTING LIGHTING	1000	2000		
1000	EXISTING LIGHTING	3		4	SPARE 20A BREAKER	1000		2000	
	EXISTING SHUT TRIP	5		6	SPARE 20A BREAKER	OFF			
		7		8		OFF			
		9		10		OFF			
OFF	EXISTING 20A BREAKER	11		12	EXISTING BOTTOM OVEN	1920			1920
OFF		13		14		1920	1920		
OFF		15		16		1920	1920		
1920	EXISTING BURNER	17		18	EXISTING TOP OVEN	1920			3840
1920		19		20		1920	3840		
1920		21		22		1920		3840	
OFF	EXISTING 70A BREAKER	23		24	EXISTING DISH MACHINE	1920			1920
OFF		25		26		1920	1920		
OFF		27		28		1920		1920	
OFF	EXISTING 70A BREAKER	29		30	EXISTING 70A BREAKER	OFF			
OFF		31		32		OFF			
OFF		33		34		OFF			
OFF	EXISTING 50A BREAKER	35		36	EXISTING 70A BREAKER	OFF			
OFF		37		38		OFF			
OFF		39		40		OFF			

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.

PHASE A	9680		
PHASE B		9680	
PHASE C			7680
TOTAL VA	27040		
CONNECTED AMPERAGE	33 AMPERES		

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KITCHEN HOOD REPLACEMENT DEMOLITION PLAN
E100 3/16" = 1'-0"

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO COORDINATE ALL DEMOLITION WITH GENERAL CONTRACTOR.
2. ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO DE-ENERGIZE AND "MAKE-SAFE" ALL ELECTRICAL IN AREA TO BE RENOVATED AND/OR DEMOLISHED BEFORE WORK BEGINS.
3. DASHED LINES DENOTE EXISTING WALLS TO BE DEMOLISHED.
4. ELECTRICAL CONTRACTOR TO REMOVE ALL EXISTING WIRE AND CONDUIT NO LONGER IN USE.
5. LIGHTER COLORED RECEPTACLES WITH "ex" ADJACENT DENOTES EXISTING RECEPTACLES TO REMAIN.
6. "ex" ADJACENT TO DEVICES DENOTE EXISTING DEVICES TO REMAIN.
7. ALL EXISTING LIGHT FIXTURES TO REMAIN.

KEYED NOTES:

- ① DENOTES AREA WHERE NO WORK IS TO BE DONE.
- ② DENOTES EXISTING HOOD TO BE DEMOLISHED. ELECTRICAL CONTRACTOR TO REMOVE ALL EXISTING CONDUIT, WIRE CURRENTLY FEEDING EXHAUST FAN.
- ③ ELECTRICAL CONTRACTOR TO PREPARE EXISTING LIGHTING CIRCUIT CURRENTLY FEEDING EXISTING HOOD LIGHTING TO BE CONNECTED TO NEW HOOD.

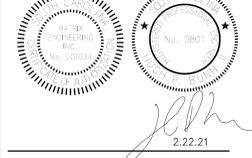


CONSULTANT LOGO



912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2021-007

SEALS



Spartanburg School District 7

**KITCHEN HOOD REPLACEMENT AT
JESSE BOYD ELEMENTARY**

1565 Fernwood Glendale Rd
Spartanburg, SC 29307

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
0	2.22.21	OSF CD REVIEW	RM

OSF CD REVIEW 2.22.21
 PRINCIPAL IN CHARGE: Principal
 PROJECT ENGINEER: Architect
 DRAWN BY: Author

**SHEET TITLE:
KITCHEN HOOD
REPLACEMENT
DEMOLITION PLAN**

SHEET NO. PROJ. NO.
E100 2021-007

E100

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GENERAL NOTES:

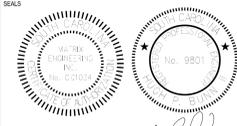
1. ELECTRICAL CONTRACTOR TO COORDINATE ELECTRICAL WORK WITH RESPECTIVE CONTRACTORS FOR MECHANICAL AND PLUMBING.
2. "FWE" ADJACENT TO DEVICE DENOTES DEVICE TO BE FURNISHED WITH EQUIPMENT.
3. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING FOR HOOD SYSTEMS. HOOD SYSTEM CONSISTS OF HOOD MOTOR CONTROL BOX, QTY (1) SUPPLY FAN, QTY (1) EXHAUST FAN, HOOD LIGHTING, AND ANSUL FIRE EXTINGUISHING SYSTEM WITH MICRO SWITCHES AND INTERCONNECTING WIRING TO THE CONTROL BOX.
4. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING FOR HOOD SUPPLY AND EXHAUST FANS FROM HOOD TO MOTOR CONTROL BOX TO FANS. PROVIDE CONTROL SYSTEM WIRING SO THAT IN THE EVENT THE SUPPRESSION SYSTEM IS ACTIVATED, MAKE-UP AIR SUPPLY FAN SHALL BE DE-ENERGIZED, AND THE EXHAUST FAN SHALL REMAIN ENERGIZED.
5. ALL POWER TO EQUIPMENT UNDER THE HOOD SHALL DE-ENERGIZE UPON ACTIVATION OF THE FIRE SUPPRESSION SYSTEM BY USE OF AUXILIARY CONTACTS TO SHUNT TRIP CIRCUIT BREAKERS SUPPLYING POWER TO THE EQUIPMENT UNDER HOOD (IF REQUIRED).
6. SEE CAPTIVE WIRE DRAWINGS PROVIDED WITH HOOD SYSTEM FOR ALL WIRING INFORMATION. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING REQUIRED FOR A COMPLETE OPERATIONAL AND CODE COMPLIANT HOOD SYSTEM.
7. ALL ELECTRICAL EQUIPMENT, PANELS, SWITCHES, ETC., SHALL BE TAGGED WITH WHITE PLASTIC NAMEPLATES WITH 1/4" BLACK LETTERS. NAMEPLATE SHALL SHOW EQUIPMENT DESIGNATION AND OPERATING VOLTAGE.

KEYED NOTES:

- ① DENOTES LOCATION OF NEW HOOD EXHAUST FAN.
- ② ELECTRICAL CONTRACTOR TO PREPARE EXISTING LIGHTING CIRCUIT G(7) CURRENTLY FEEDING EXISTING HOOD LIGHTING TO BE CONNECTED TO NEW HOOD. LIGHTS UNDER HOOD PROVIDED WITH HOOD. CIRCUIT NUMBER WAS TAKEN FROM ORIGINAL 1985 CONSTRUCTION DOCUMENTS. ELECTRICAL CONTRACTOR TO VERIFY CIRCUIT.
- ③ DENOTES NO WORK TO BE DONE IN ROOM.
- ④ WIRE ROOF MOUNTED EXHAUST SUPPLY FAN TO KITCHEN HOOD CONTROL PANEL WITH (3)#12, #12 GND IN 3/4" CONDUIT.
- ⑤ ELECTRICAL CONTRACTOR TO INTERLOCK KITCHEN APPLIANCE SHUT DOWN AND FIRE ALARM TO FIRE EXTINGUISHER SYSTEM. UL LISTED CONTRACTOR PROVIDED BY FIRE EXTINGUISHER MANUFACTURER, MOUNTED AND WIRED BY ELECTRICAL CONTRACTOR. COORDINATE WITH HOOD MANUFACTURER.



912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2021-007



2.22.21

**KITCHEN HOOD REPLACEMENT AT
JESSE BOYD ELEMENTARY**
 196F Fernwood Glendale Rd
Spartanburg, SC 29307

Spartanburg School District 7

NO.	DATE	DESCRIPTION	BY
0	2.22.21	OSF CD REVIEW	RM

OSF CD REVIEW 2.22.21
 PRINCIPAL IN CHARGE: Principal
 PROJECT ENGINEER: Architect
 DRAWN BY: Author

SHEET TITLE:
**KITCHEN HOOD
 REPLACEMENT
 MECHANICAL POWER
 PLAN**

PROJ. NO.
2021-007

E200

ELECTRICAL SPECIFICATIONS

General Provisions

- All Electrical work shall be executed in accordance with the 2017 version of the National Electrical Code and all other local codes, laws, and ordinances. Where one code differs from another, the stricter of the two shall apply.
- It is the duty of the Electrical contractor to be familiar with the construction details of the building. The contractor shall coordinate the installation of the electrical system with all other trades and shall complete the electrical installation as soon as conditions will allow.
- Payment of all fees, permits, and licenses required to complete the electrical installation shall be the responsibility of the electrical contractor.
- All work shall be done in a neat, quality manner with all wiring and raceways concealed.
- All electrical work shall be warranted by the electrical contractor for one (1) year from the date of acceptance by the owner or his designated representative.
- All electrical drawings are generally diagrammatic in nature. The electrical contractor shall closely coordinate all electrical work with all other trades working on the premises.
- Electrical contractor shall submit five (5) sets of catalog cuts, brochures, or other technical data for all equipment furnished under this contract to the architect for his review.
- All requests for prior approval shall be submitted to the engineer no later than ten (10) days prior to the bid date unless noted as "approved equal" in a written addendum. All manufacturers shall be specified herein or as shown on the contract documents.
- See general notes, schedules, and legends on the electrical drawing set for any additional requirements to the contract.
- Electrical contractor is to contact the architect after installation of all switch, receptacle, telephone, television, and lighting boxes for an on-site review before any wiring is installed or wall surfaces are complete. The architect may, at this point, make adjustments to the box locations as desired.
- All electrical panelboards and lighting equipment shall be restrained per seismic requirements of the appropriate building code in effect.

Electrical Raceways

- All cutting and patching required for and resulting from the electrical installation work shall be patched and repaired to restore the original surface finish. This repair work is the responsibility of the electrical contractor.
- Contractor shall install sleeves for conduits that pass through grade beams, foundations, walls, and slabs before concrete is poured. Contractor shall do all necessary cutting and sealing afterwards in an approved manner.
- All penetrations through fire-rated walls shall be patched with a UL approved fire sealant equal to at least the rating of the wall.
- Wiring system is to be concealed above the suspended ceiling or in walls where possible. Conduit is to be installed parallel to building lines and clear of all openings, depressions, pipes, ducts, structure, etc.
- Conduit is to be installed between cabinets and boxes with no more than four (4) 90 degree bends. Conduit is to be securely fastened in place with straps, hangers and steel supports as required. Conduit is not to be fastened or supported from the ceiling grid or supporting wires. Conduit ends shall be reamed and conduit shall be thoroughly cleaned before installation. Openings in conduit shall be plugged or properly covered.
- Terminals on switches and outlets shall not be used to "feed through" to the next switch or outlet. The removal of a receptacle or fixture or any other device fed from a box shall not interfere with conductor continuity.
- Conduit shall be furnished as shown on the electrical drawings. Approved types are heavy wall rigid steel hot dipped galvanized or EMT with compression type fittings and connections. All runs shall be continuous with all joints and connections pulled tight. Conduit shall be required in and under all slabs and in masonry walls. PVC conduit may be used underground or under slabs. Minimum conduit size shall be 3/4". MC Cable is permissible for 20 amp circuits concealed in walls to the area junction box. Home runs from area junction box to subpanel shall be routed in EMT conduit.
- Contractor shall install a nylon pull wire in each empty conduit.
- Contractor to include an equipment grounding conductor in each conduit. Conductor size to be determined by National Electrical Code requirements.

Conductors

- Conductors shall be soft-annealed 98% copper. All conductors larger than #8 AWG shall be stranded. Minimum size conductor shall be #12 AWG unless otherwise specified. No aluminum conductors will be permitted. Type THHN shall not be used underground, outside, at service entrances or in wet locations. All insulation shall be rated at 600 volts.

The following insulation types are permitted:

#10 AWG and smaller THW, THWN, THW
 #8 AWG to #4/0 AWG THW, THHN
 Over 4/0 AWG THW
 Service Entrance USE, RHW
 Wire through fluorescent fixture or within 3' of heating equipment THHN

Conductors shall be color coded as follows:

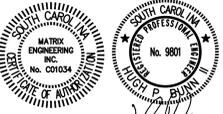
	208/120 Volt Y	480/277 Volt Y
Phase A	Black	Brown
Phase B	Red	Orange
Phase C	Blue	Yellow
Neutral	White	White
Ground	Green	Gray

Lighting Equipment

- Lighting fixtures shall be of the type shown in the lighting fixture schedule.
- Exit lamps shall be provided at all exterior doors. All emergency and exit lights shall have self-contained battery back-up systems, or be of the type for use with emergency generator system if specified.

Devices and Boxes

- All outlet, lighting, and switch boxes shall be pressed steel where used in overhead and concealed areas. Receptacles and switches in exposed areas shall be installed in ferrous alloy or cast aluminum boxes with appropriate sheet steel covers.
- Local switches shall be quiet toggle type, Hubbell #1221 or approved equal (single pole) or Hubbell #1223 or approved equal (3-way) and shall be rated for 120/277 Volts. Duplex receptacles shall be Hubbell #5352 or approved equal, three wire grounding type with ground installed.
- All wall switches shall be 20 Ampere, silent type with cover plate.
- Duplex receptacles shall be 20 Ampere with cover plate.
- Unless otherwise indicated, all lighting switches shall be flush mounted 44" above finished floor or 7" above finished countertop.
- All receptacles shall be flush mounted 18" above finished floor or 7" above finished countertop unless otherwise indicated. Notify architect for configuration of location after boxes are set, but before wire is pulled or walls are constructed. Contractor shall certify that all receptacles are tested for proper polarity prior to final inspection.
- All low voltage wiring for HVAC controls shall be done by the mechanical contractor. All line voltage HVAC wiring shall be done by the electrical contractor. Electrical contractor shall review HVAC specifications and plans and coordinate with HVAC contractor to provide all requirements.
- All switch and receptacle cover plates to be specified by architect. Consult with architect before purchasing cover plates.



Spartanburg School District 7
**JESSE BOYD ELEMENTARY AT
 KITCHEN HOOD REPLACEMENT**

1505 Fernwood, Clarendale Rd
 Spartanburg, SC 29307

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
0	02.22.21	OSF REVIEW	RM

OSF REVIEW 2.22.21
 PRINCIPAL IN CHARGE: HPB
 PROJECT ENGINEER: RM
 DRAWN BY: RP, RB, RM

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

SHEET NO. PROJ. NO.
 2021-007

E300