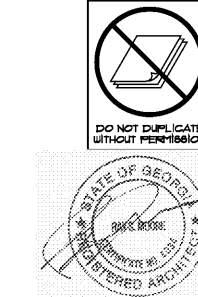


DRAWING ISSUE RECORD		
DATE:	REVISION:	NO.
11-1-18	ISSUE TO BID	

HARMONY LELAND-COOPER  
REPLACEMENT ELEMENTARY SCHOOL  
63246 FACTORY SHOALS RD  
HABLETON, GA 30226  
FOR COBB COUNTY SCHOOL DISTRICT  
CCAD PROJECT NO. 04824 / JOB FACILITY SIDE 818

cunningham, forhand, matthews & moore  
atlanta, georgia 30324 - phone (404) 873-2152  
architects, n.e. - 2011 manchester street,  
DATE: JUL 16, 2018  
JOB NO. SHL-2501-18  
DRAWN BY: AK  
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F1.1



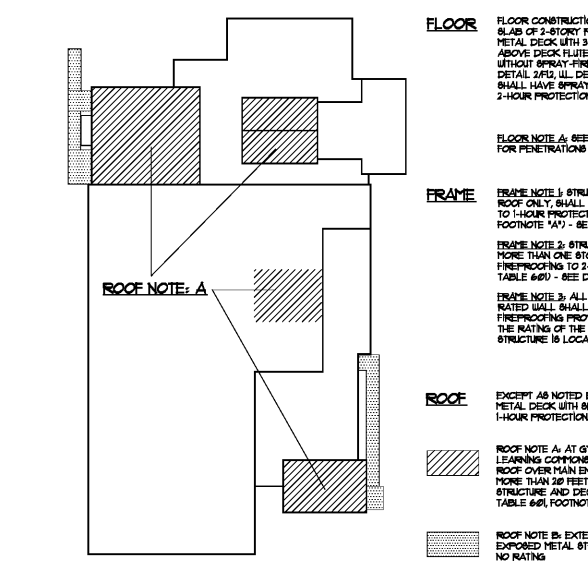
DO NOT DUPLICATE WITHOUT PERMISSION

FLOOR  
FLOOR CONSTRUCTION AT ELEVATED CONCRETE SLAB OF 3-STORY PORTION OF THE BUILDING IS METAL DECK WITH 3" LIGHTWEIGHT CONCRETE ABOVE DECK FLUTES, FOR A 2-HOUR RATING WITHOUT SPRAY-FIREPROOFING THE DECK - SEE DETAIL UFL ULL DESIGN X17L. FLOOR FRAMING SHALL HAVE SPRAY-ON FIREPROOFING TO 2-HOUR PROTECTION, ALSO PER ULL DESIG.

FLOOR NOTE & SEE DETAILS DFL1 & DFL1F

FRAME  
FRAME NOTE 1: STRUCTURAL FRAME SUPPORTING A ROOF ONLY, SHALL HAVE SPRAY-ON FIREPROOFING TO 1-HOUR PROTECTION (REF. IBC TABLE 601, FOOTNOTE 14). SEE DETAIL UFL ULL DESIGN X17L.  
FRAME NOTE 2: STRUCTURAL FRAME SUPPORTING MORE THAN ONE STORY SHALL HAVE SPRAY-ON FIREPROOFING TO 2-HOUR PROTECTION (REF. IBC TABLE 601). SEE DETAIL UFL ULL DESIGN X17L.  
FRAME NOTE 3: ALL STRUCTURE LOCATED WITHIN A RATED WALL SHALL HAVE SPRAY-ON FIREPROOFING PROVIDING PROTECTION EQUAL TO THE RATING OF THE WALL WITHIN WHICH THE STRUCTURE IS LOCATED.

ROOF  
EXCEPT AS NOTED BELOW, ROOF PROTECTION IS METAL DECK WITH SPRAY-ON FIREPROOFING TO 1-HOUR PROTECTION - SEE DET. UFL2, ULL DESIGN PDL2.  
ROOF NOTE A: AT GYM CAFETERIA CLOSETORY, LEARNING COMMON CLOSETORY, AND RAISED ROOF OVER MAIN ENTRY, ROOF CONSTRUCTION IS MORE THAN 30 FEET ABOVE FLOOR, ROOF STRUCTURE AND DECK ARE NOT RATED (REF. IBC TABLE 601, FOOTNOTE 15).  
ROOF NOTE B: EXTERIOR WALK CANOPY WITH LEARNED METAL STRUCTURE AND METAL ROOF - NO RATING



**FIRE-PROOFING DIAGRAM AND NOTES**  
TYPE I-B CONSTRUCTION, FULLY SPRINKLED

MAIN LEVEL:	12,462 SF.
LOBBY LEVEL:	8,470 SF.
TOTAL BLDG. AREA:	20,932 SF.

**14 FIRE RESISTANCE RATINGS**  
TAKEN FROM INTERNATIONAL BUILDING CODE®, 2015 EDITION, P. 871

**TABLE 601**  
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

BUILDING ELEMENT	TYPE I	U.L. DESIGN	DETAILS
PRIMARY STRUCTURAL FRAME (SEE SECTION 202)	8	X71	11R-1.1
BEARING WALLS (SEE SECTION 202)	2	701	
NON-BEARING WALLS AND PARTITIONS (SEE SECTION 202)	See Table 602	U435, U800, U900, U990, U1000	5R-1.1, 6R-1.1, 7R-1.1
FLOOR CONSTRUCTION AND ANCHORED SECOND MEMBERS (SEE SECTION 202)	2	D95	5R-1.2
ROOF CONSTRUCTION AND ANCHORED SECOND MEMBERS (SEE SECTION 202)	1 (R04)	F72	11R-1.2

NOTE: ALL VALUES LISTED IN TABLE ABOVE APPLY TO THIS PROJECT

1. ROOF SUPPORTS: FIRE RESISTANCE AS PART OF PRIMARY STRUCTURAL FRAME AND BEARING WALLS AS REFERRED TO IN SECTION 202 SHALL BE PROVIDED BY DESIGN. MEMBERS SUPPORTING A ROOF SHALL BE RATED FOR THE RATING OF THE ROOF CONSTRUCTION. THE RATING OF THE ROOF SHALL BE ALLOWED TO BE LESS THAN THE RATING OF THE BEARING WALLS AND PARTITIONS. THE RATING OF THE ROOF SHALL BE ALLOWED TO BE LESS THAN THE RATING OF THE BEARING WALLS AND PARTITIONS. THE RATING OF THE ROOF SHALL BE ALLOWED TO BE LESS THAN THE RATING OF THE BEARING WALLS AND PARTITIONS.

**13 SYSTEM NO. F-A-2021**  
**PENETRATION THRU RATED FLOOR**  
TAKEN FROM INTERNATIONAL BUILDING CODE®, 2015 EDITION, P. 871

**TABLE 603**  
FIRE RESISTANCE RATING REQUIREMENTS FOR PENETRATIONS THROUGH RATED FLOORS

TYPE OF PENETRATION	TYPE I	U.L. DESIGN	DETAILS
PIPE PENETRATION	2	701	
DUCT PENETRATION	2	701	
WIRE PENETRATION	2	701	

**15 MIN. EQUIV. THICKNESS AT WALL**  
TAKEN FROM INTERNATIONAL BUILDING CODE®, 2015 EDITION, P. 871

**TABLE 703.2.1**  
MINIMUM SLAB THICKNESS (Inches)

CONCRETE TYPE	1	2	3	4
Concrete	3.5	4.0	4.5	5.0
Lightweight	3.0	3.5	4.0	4.5
Structural Lightweight	2.7	3.2	3.7	4.2
Lightweight	2.5	3.0	3.5	4.0

**10 SYSTEM NO. W-L-1033**  
**PENETRATION THRU 2-HR GYP. WALL BD.**  
TAKEN FROM INTERNATIONAL BUILDING CODE®, 2015 EDITION, P. 871

**TABLE 604**  
FIRE RESISTANCE RATING REQUIREMENTS FOR PENETRATIONS THROUGH 2-HOUR GYPSUM BOARD WALLS

TYPE OF PENETRATION	TYPE I	U.L. DESIGN	DETAILS
PIPE PENETRATION	2	701	
DUCT PENETRATION	2	701	
WIRE PENETRATION	2	701	

**12 SYSTEM F-A-1008**  
**PENETRATION THRU 2-HR STL CONG. SLAB**  
TAKEN FROM INTERNATIONAL BUILDING CODE®, 2015 EDITION, P. 871

**TABLE 605**  
FIRE RESISTANCE RATING REQUIREMENTS FOR PENETRATIONS THROUGH 2-HOUR CONCRETE SLABS

TYPE OF PENETRATION	TYPE I	U.L. DESIGN	DETAILS
PIPE PENETRATION	2	701	
DUCT PENETRATION	2	701	
WIRE PENETRATION	2	701	

**1 SYSTEM NO. W-L-1009**  
**PENETRATION THRU 2-HR GYP. WALL BD.**  
TAKEN FROM INTERNATIONAL BUILDING CODE®, 2015 EDITION, P. 871

**TABLE 604**  
FIRE RESISTANCE RATING REQUIREMENTS FOR PENETRATIONS THROUGH 2-HOUR GYPSUM BOARD WALLS

TYPE OF PENETRATION	TYPE I	U.L. DESIGN	DETAILS
PIPE PENETRATION	2	701	
DUCT PENETRATION	2	701	
WIRE PENETRATION	2	701	

**8 U.L. DESIGN U905**  
**TYP. 2-HR CONC. BLOCK WALL**  
TAKEN FROM INTERNATIONAL BUILDING CODE®, 2015 EDITION, P. 871

**TABLE 606**  
FIRE RESISTANCE RATING REQUIREMENTS FOR TYPICAL 2-HOUR CONCRETE BLOCK WALLS

TYPE OF WALL	TYPE I	U.L. DESIGN	DETAILS
2-Hour Concrete Block Wall	2	701	

**5 U.L. DESIGN NO. U425**  
**INTERIOR AND EXTERIOR LOAD-BEARING WALL - 2-HR. (For Load Restriction refer to Item 1)**  
DESIGN NO. U425  
FEBRUARY 20, 2018

**TABLE 607**  
FIRE RESISTANCE RATING REQUIREMENTS FOR INTERIOR AND EXTERIOR LOAD-BEARING WALLS

TYPE OF WALL	TYPE I	U.L. DESIGN	DETAILS
2-Hour Interior/Exterior Load-Bearing Wall	2	701	

**6 SYSTEM HW-D-0086**  
**RATED WALL TO FLR/ ROOF DECK FILL**  
TAKEN FROM INTERNATIONAL BUILDING CODE®, 2015 EDITION, P. 871

**TABLE 608**  
FIRE RESISTANCE RATING REQUIREMENTS FOR RATED WALLS TO FLOOR/ROOF DECK FILL

TYPE OF WALL	TYPE I	U.L. DESIGN	DETAILS
Rated Wall to Floor/Roof Deck Fill	2	701	

**1 CROSS SECTION THRU TYP. CORRIDOR AT MULTI-STORY BUILDING PORTION**

NOTE: ALL CORRIDOR WALLS TO LIMIT THE TRANSFER OF SMOKE - REAL PROTECT TIGHT TO DECK ABOVE (SEE DET. UFL2 BELOW)

**2 CROSS SECTION THRU TYP. CORRIDOR AT 1-STORY BUILDING PORTION**

NOTE: ALL CORRIDOR WALLS TO LIMIT THE TRANSFER OF SMOKE - REAL PROTECT TIGHT TO DECK ABOVE (SEE DET. UFL2 BELOW)

**3 TYP. DET. AT 1-HR & 2 HR WALLS EXTENDED TO DECK W/ BMS. OR JOISTS ON TOP**

NOTE: ALL PENETRATIONS THRU FIRE WALLS SHALL BE FIRE PROTECTED WITH THE SAME RATING AS THE WALL.

**4 TYP. DET. AT WALLS TO LIMIT THE TRANSFER OF SMOKE**

NOTE: ALL PENETRATIONS THRU FIRE WALLS SHALL BE FIRE PROTECTED WITH THE SAME RATING AS THE WALL.

**1 CROSS SECTION THRU TYP. CORRIDOR AT MULTI-STORY BUILDING PORTION**

NOTE: ALL CORRIDOR WALLS TO LIMIT THE TRANSFER OF SMOKE - REAL PROTECT TIGHT TO DECK ABOVE (SEE DET. UFL2 BELOW)

**2 CROSS SECTION THRU TYP. CORRIDOR AT 1-STORY BUILDING PORTION**

NOTE: ALL CORRIDOR WALLS TO LIMIT THE TRANSFER OF SMOKE - REAL PROTECT TIGHT TO DECK ABOVE (SEE DET. UFL2 BELOW)

Order Plans