

# McNair Hall - Phase 1.2

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## McNair Hall - Phase 1.2 - Rotunda

ISSUE FOR PRICING, PERMIT, & CONSTRUCTION

09/09/2019

RICE UNIVERSITY

JANICE AND ROBERT MCNAIR HALL

6100 MAIN STREET

HOUSTON TEXAS 77005

**PROJECT NUMBER:02.8270.200**

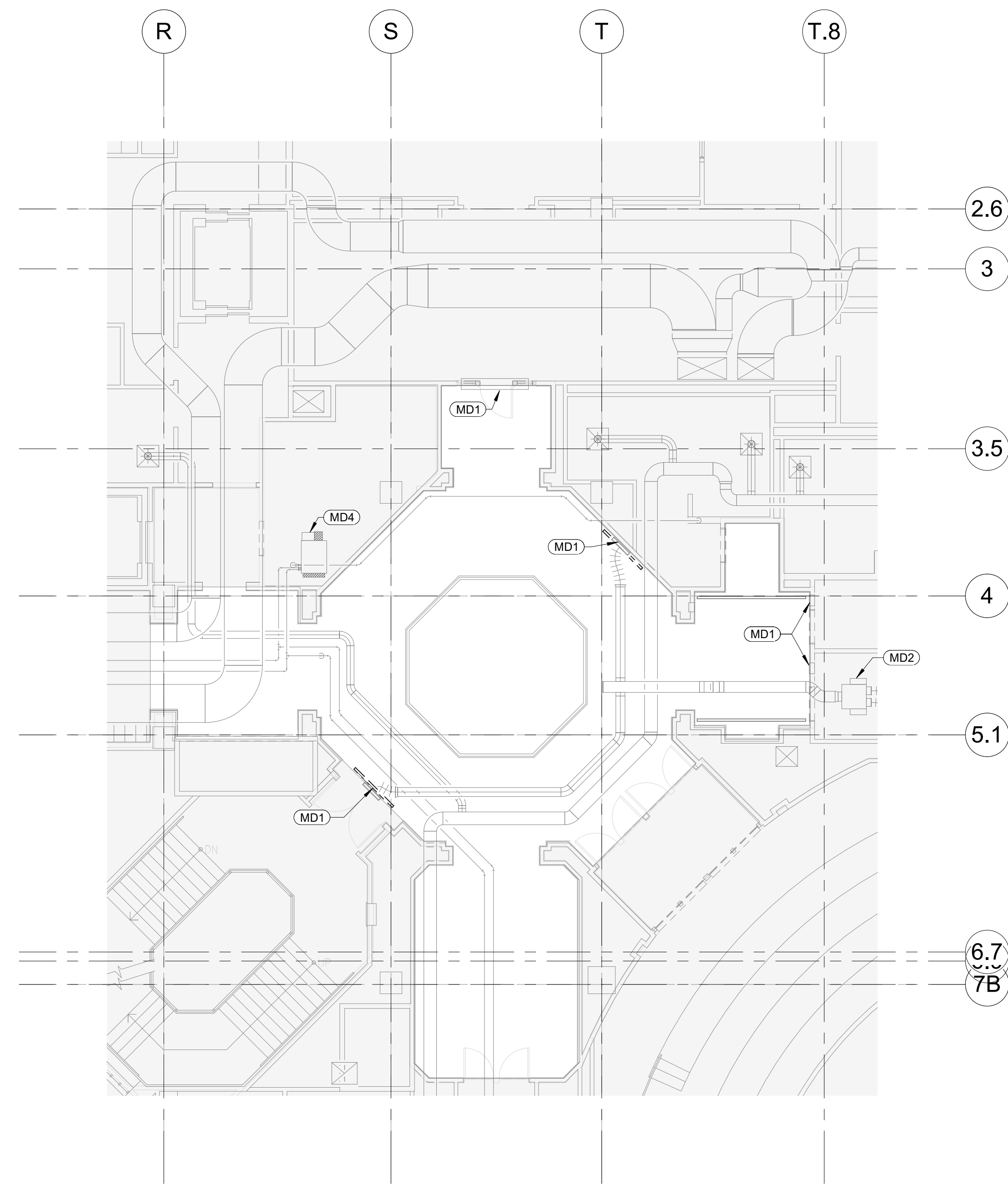
**EABPRJ#** TABS2020000508

### **Gensler**

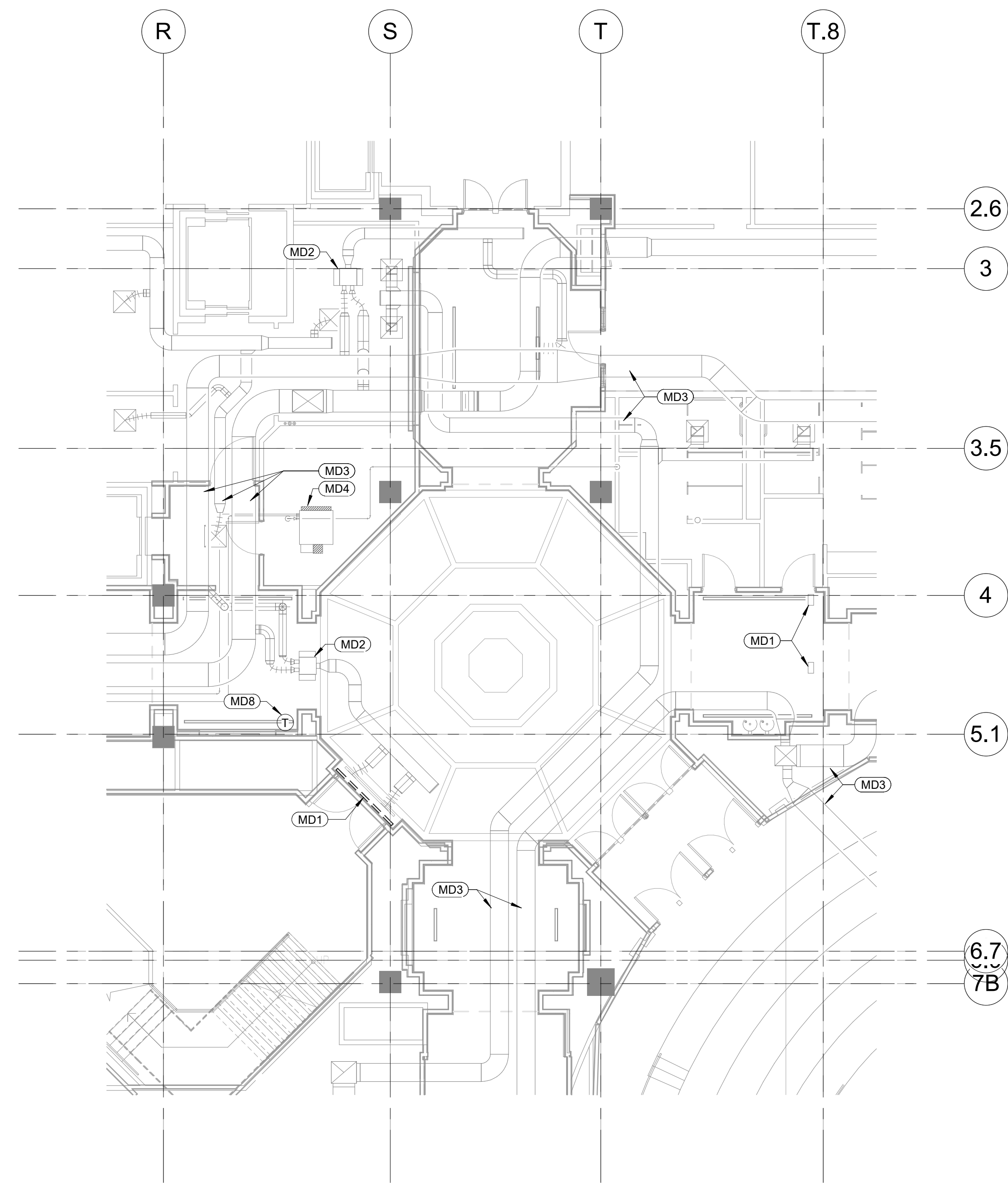
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TX Registration # F-12678

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**2** MECHANICAL DEMO PLAN - LEVEL 2  
SCALE: 1/8" = 1'-0"



**1** MECHANICAL DEMO PLAN - LEVEL 1  
SCALE: 1/8" = 1'-0"

**SHEET NOTES**

- MD1 REMOVE EXISTING SLOT DIFFUSER AND SUPPLY PLENUM(S) AT THIS LOCATION.
- MD2 EXISTING TERMINAL UNIT TO REMAIN.
- MD3 EXISTING DUCTS OUT OF SCOPE OF WORK TO REMAIN.
- MD4 EXISTING TERMINAL UNIT NOT IN SCOPE OF WORK.
- MD8 REMOVE EXISTING THERMOSTAT FROM THIS WALL FOR RELOCATION.

**McNair Hall - Phase 1.2**

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JANICE AND ROBERT MCNAIR HALL  
6100 MAIN STREET  
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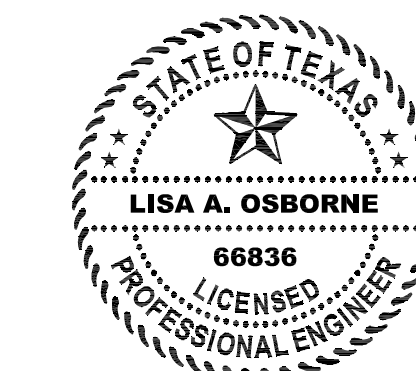
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**GENERAL NOTES**

- A CONTRACTOR SHALL INCLUDE IN THE BID REMOVAL OF EXISTING FIRE PROTECTION SPRINKLER HEADS IN THE ROTUNDA CEILING AS REQUIRED. RETAIN SPRINKLER HEADS FOR REUSE IN NEW CEILING AS APPLICABLE. CONTRACTOR SHALL CONFIRM FIRE SPRINKLER SYSTEM CONTRACTOR REQUIREMENTS / MAINTENANCE CONTRACT INFORMATION WITH RICE PROJECT MANAGER.

Date	Description
08/26/2019	CD PAGE TURN REVIEW
09/09/2019	ISSUE FOR PERMIT, PRICING & CONSTRUCTION

Seal / Signature



Project Name *Lisa Osborne*  
McNair Hall - Phase 1.2 - Rotunda


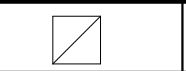

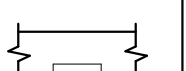
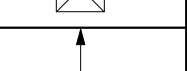
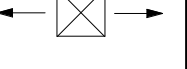
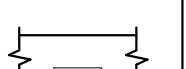
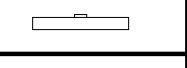

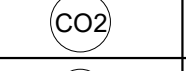

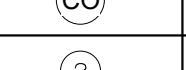
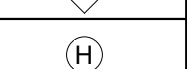
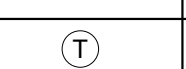
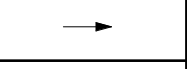




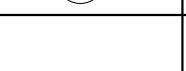


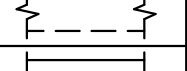
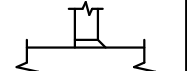
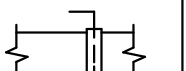
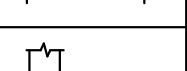
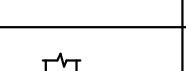
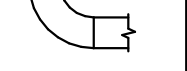
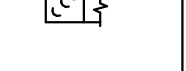
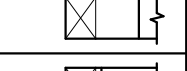


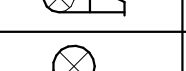
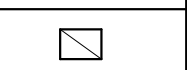
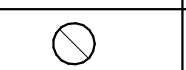
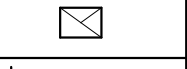
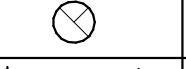


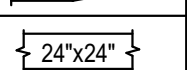
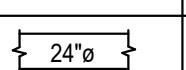


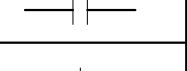
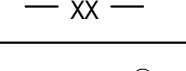
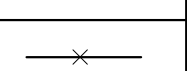
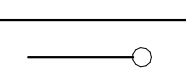
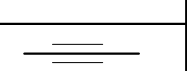
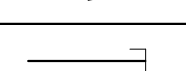


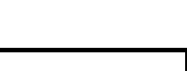

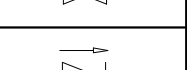

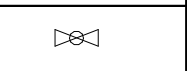
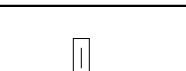
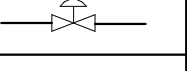
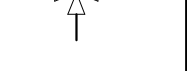


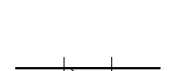
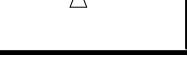
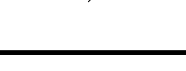



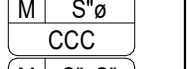










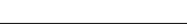
Project Number  
02.8270.000

Description  
MECHANICAL DEMO PLANS - ROTUNDA

Scale  
1/8" = 1'-0"

**MD1.1**

## LEGEND

SYMBOL	DESCRIPTION		
<b>AIR DIFFUSERS AND GRILLES</b>			
	SUPPLY AIR DIFFUSER		RETURN OR EXHAUST AIR GRILLE
	SUPPLY AIR DIFFUSER (1-WAY THROW)		SUPPLY AIR SIDEWALL DIFFUSER
	SUPPLY AIR DIFFUSER (2-WAY THROW)		
	SUPPLY AIR DIFFUSER (3-WAY THROW)		RETURN/EXHAUST AIR SIDEWALL GRILLE
	LINEAR SLOT DIFFUSER		
<b>MISCELLANEOUS HVAC</b>			
	FIRE DAMPER		CARBON DIOXIDE SENSOR
	SMOKE DAMPER		CARBON MONOXIDE SENSOR
	FIRE SMOKE DAMPER		SMOKE DETECTOR
	HUMIDISTAT		THERMOSTAT
	SUPPLY FLOW ARROW		RETURN FLOW ARROW
	DIFFERENTIAL PRESSURE SENSOR		STATIC PRESSURE SENSOR
	HUMIDITY SENSOR		TEMPERATURE SENSOR
	MOTORIZED DAMPER		
<b>DUCTWORK</b>			
	EXISTING DUCTWORK TO BE REMOVED		EXISTING DUCTWORK TO REMAIN
	NEW DUCTWORK		FLEXIBLE DUCTWORK
	BRANCH DUCT TAKE OFF		MANUAL VOLUME DAMPER
	RADIUS ELBOW		MITERED ELBOW WITH TURNING VANES
	RECTANGULAR DUCT RADIUS ELBOW		ROUND DUCT ELBOW TURNING UP
	RECTANGULAR DUCT MITERED ELBOW		ROUND DUCT ELBOW TURNING DOWN
	RECTANGULAR SUPPLY DUCT UP/DOWN		ROUND SUPPLY DUCT UP/DOWN
	RECTANGULAR RETURN DUCT UP/DOWN		ROUND RETURN DUCT UP/DOWN
	RECTANGULAR EXHAUST DUCT UP/DOWN		ROUND EXHAUST DUCT UP/DOWN
	DUCT TRANSITION - TWO SIDED		DUCT TRANSITION - ONE SIDED
	TRANSITION (RECTANGULAR TO ROUND)		TRANSITION IN VERTICAL (RECTANGULAR TO ROUND)
	RECTANGULAR DUCT WITH SIZE IN INCHES		ROUND DUCT WITH SIZE IN INCHES
<b>PIPING</b>			
	FLANGE		PIPE SYSTEM DESIGNATION ON PIPE
	UNION		ELBOW DOWN
	ANCHOR		ELBOW UP
	PIPE GUIDE		TEE UP
	PIPE SLEEVE		PIPE CAP
	VALVE IN VERTICAL		
<b>PIPE VALVES AND SPECIALTIES</b>			
	ISOLATION VALVE		WATER METER
	CHECK VALVE		DEMO OF PIPING, DEVICE, ETC.
	BALANCING VALVE		THERMOMETER
	2-WAY CONTROL VALVE		
	3-WAY CONTROL VALVE		PRESSURE GAUGE (WITH VALVE)
	PRESSURE RELIEF VALVE		STRAINER
<b>PLAN TAGS/INDICATORS</b>			
	SECTION INDICATOR		CALLOUT INDICATOR
	SECTION NUMBER ON SHEET		CALLOUT NUMBER ON SHEET
	SHEET REFERENCE NUMBER		SHEET REFERENCE NUMBER
	DIFFUSER/GRILLE TAG		REVISION TAG
	M = DIFFUSER DESIGNATION		
	S = SIZE IN INCHES		
	C = AIRFLOW (CFM)		

## DUCT & PIPING MATERIAL & INSULATION SCHEDULE

SYSTEM	DUCT PIPING MATERIAL	INSULATION MATERIAL
SUPPLY & RETURN DUCT	GALVANIZED SHEET METAL LINER	JOHNS MANVILLE PERMACOTE LINACOUSTIC OR EQUAL, 2-1/2" THICK, 1-1/2 LB/CU FT, NFPA 25/50 FLAME SPREAD AND SMOKE DEVELOPED RATING. MINIMUM R-6 INSIDE AND R-8 OUTSIDE BUILDING ENVELOPE.
FLEXIBLE SUPPLY DUCT	UL 181, CLASS 1, INTERLOCKING SPIRAL OF ALUMINUM FOIL	FIBROUS GLASS INSULATION, POLYETHYLENE VAPOR-BARRIER FILM, R-8 MINIMUM
SUPPLY, RETURN & OUTSIDE AIR DUCT	GALVANIZED SHEET METAL DUCT WRAP	2" THICK, 1-1/2 LB/CU FT DENSITY FIBERGLASS FOIL-BACK, FLAME SPREAD RATING 25 OR LESS, SMOKE DEVELOPED RATING 50 OR LESS, MINIMUM R-6 INSIDE AND R-8 OUTSIDE BUILDING ENVELOPE.

## HVAC EQUIP. ABBREVIATIONS

AC	AIR CURTAIN
AFMS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
B	BOILER
CH	CHILLED WATER
CHP	CHILLED WATER PUMP
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	COOLING TOWER
CVB	CONSTANT VOLUME BOX
CWP	CONDENSER WATER PUMP
DC	DRY COIL
DS	DUCT SILENCER
EF	EXHAUST FAN
ERV	ENERGY RECOVERY VENTILATOR
HC	HEATING COIL
HC-E	HEATING COIL - ELECTRIC
HC-S	HEATING COIL - STEAMER
HC-W	HEATING COIL - WATER
HVU	HEATING AND VENTILATING UNIT
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
L	LOUVER
MUA	MAKE UP AIR
OAHU	OUTDOOR AIR HANDLING UNIT
PHC	PREHEAT COIL
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RF	RETURN FAN
RFH	RADIANT FLOOR HEAT
RTU	ROOF TOP UNIT
SAF	SUPPLY AIR FAN
SEF	SMOKE EXHAUST FAN
SFF	STAIR PRESSURIZATION FAN
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME

## MECHANICAL SHEET LIST

Sheet Number	Sheet Name
M0.0	SYMBOLS & ABBREVIATIONS
M1.1	MECHANICAL PLANS - ROTUNDA
MD1.1	MECHANICAL DEMO PLANS - ROTUNDA

### COMMISSIONING OF HVAC SYSTEMS

#### 1. TESTING PREPARATION

A. CERTIFY THAT HVAC&R SYSTEMS, SUBSYSTEMS, AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED, AND STARTED AND ARE OPERATING ACCORDING TO THE CONTRACT DOCUMENTS.

B. CERTIFY THAT HVAC&R INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED, THAT THEY ARE OPERATING ACCORDING TO THE CONTRACT DOCUMENTS, AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.

C. CERTIFY THAT TESTING, ADJUSTING, AND BALANCING PROCEDURES HAVE BEEN COMPLETED AND THAT TESTING, ADJUSTING, AND BALANCING REPORTS HAVE BEEN SUBMITTED, DISCREPANCIES CORRECTED, AND CORRECTIVE WORK APPROVED.

D. SET SYSTEMS, SUBSYSTEMS, AND EQUIPMENT INTO OPERATING MODE TO BE TESTED (E.G., NORMAL SHUTDOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, UNOCCUPIED CYCLE, EMERGENCY POWER, AND ALARM CONDITIONS).

E. INSPECT AND VERIFY THE POSITION OF EACH DEVICE AND INTERLOCK IDENTIFIED ON CHECKLISTS.

F. CHECK SAFETY CUTOUPS, ALARMS, AND INTERLOCKS WITH SMOKE CONTROL AND LIFE-SAFETY SYSTEMS DURING EACH MODE OF OPERATION.

G. TESTING INSTRUMENTATION: INSTALL MEASURING INSTRUMENTS AND LOGGING DEVICES TO RECORD TEST DATA AS DIRECTED BY THE CXA.

#### 2. TESTING AND BALANCING VERIFICATION

A. PRIOR TO PERFORMANCE OF TESTING AND BALANCING WORK, PROVIDE COPIES OF REPORTS, SAMPLE FORMS, CHECKLISTS, AND CERTIFICATES TO THE CXA.

B. NOTIFY THE CXA AT LEAST 10 DAYS IN ADVANCE OF TESTING AND BALANCING WORK, AND PROVIDE ACCESS FOR THE CXA TO WITNESS TESTING AND BALANCING WORK.

C. PROVIDE TECHNICIANS, INSTRUMENTATION, AND TOOLS TO VERIFY TESTING AND BALANCING OF HVAC&R SYSTEMS AT THE DIRECTION OF THE CXA.

a. THE CXA WILL NOTIFY TESTING AND BALANCING CONTRACTOR 10 DAYS IN ADVANCE OF THE DATE OF FIELD VERIFICATION. NOTICE WILL NOT INCLUDE DATA POINTS TO BE VERIFIED.

b. THE TESTING AND BALANCING CONTRACTOR SHALL USE THE SAME INSTRUMENTS (BY MODEL AND SERIAL NUMBER) THAT WERE USED WHEN ORIGINAL DATA WERE COLLECTED.

c. FAILURE OF AN ITEM INCLUDES, OTHER THAN SOUND, A DEVIATION OF MORE THAN 10 PERCENT. FAILURE OF MORE THAN 10 PERCENT OF SELECTED ITEMS SHALL RESULT IN REJECTION OF FINAL TESTING, ADJUSTING, AND BALANCING REPORT. FOR SOUND PRESSURE READINGS, A DEVIATION OF 3 DB SHALL RESULT IN REJECTION OF FINAL TESTING. VARIATIONS IN BACKGROUND NOISE MUST BE CONSIDERED.

d. REMEDY THE DEFICIENCY AND NOTIFY THE CXA SO VERIFICATION OF FAILED PORTIONS CAN BE PERFORMED.

#### 3. GENERAL TESTING REQUIREMENTS

A. PROVIDE TECHNICIANS, INSTRUMENTATION, AND TOOLS TO PERFORM COMMISSIONING TEST AT THE DIRECTION OF THE CXA.

B. SCOPE OF HVAC&R TESTING SHALL INCLUDE ENTIRE HVAC&R INSTALLATION, FROM CENTRAL EQUIPMENT FOR HEAT GENERATION AND REFRIGERATION THROUGH DISTRIBUTION SYSTEMS TO EACH CONDITIONED SPACE. TESTING SHALL INCLUDE MEASURING CAPACITIES AND EFFECTIVENESS OF OPERATIONAL AND CONTROL FUNCTIONS.

C. TEST ALL OPERATING MODES, INTERLOCKS, CONTROL RESPONSES, AND RESPONSES TO ABNORMAL OR EMERGENCY CONDITIONS, AND VERIFY PROPER RESPONSE OF BUILDING AUTOMATION SYSTEM CONTROLLERS AND SENSORS.

D. THE CXA ALONG WITH THE HVAC&R CONTRACTOR, TESTING AND BALANCING CONTRACTOR, AND HVAC&R INSTRUMENTATION AND CONTROL CONTRACTOR SHALL PREPARE DETAILED TESTING PLANS, PROCEDURES, AND CHECKLISTS FOR HVAC&R SYSTEMS, SUBSYSTEMS, AND EQUIPMENT.

E. TESTS WILL BE PERFORMED USING DESIGN CONDITIONS WHENEVER POSSIBLE.

F. SIMULATED CONDITIONS MAY NEED TO BE IMPOSED USING AN ARTIFICIAL LOAD WHEN IT IS NOT PRACTICAL TO TEST UNDER DESIGN CONDITIONS. BEFORE SIMULATING CONDITIONS, CALIBRATE TESTING INSTRUMENTS. PROVIDE EQUIPMENT TO SIMULATE LOADS. SET SIMULATED CONDITIONS AS DIRECTED BY THE CXA AND DOCUMENT SIMULATED CONDITIONS AND METHODS OF SIMULATION. AFTER TESTS, RETURN SETTINGS TO NORMAL OPERATING CONDITIONS.

G. THE CXA MAY DIRECT THAT SET POINTS BE ALTERED WHEN SIMULATING CONDITIONS IS NOT PRACTICAL.

H. THE CXA MAY DIRECT THAT SENSOR VALUES BE ALTERED WITH A SIGNAL GENERATOR WHEN DESIGN OR SIMULATING CONDITIONS AND ALTERING SET POINTS ARE NOT PRACTICAL.

I. IF TESTS CANNOT BE COMPLETED BECAUSE OF A DEFICIENCY OUTSIDE THE SCOPE OF THE HVAC&R SYSTEM, DOCUMENT THE DEFICIENCY AND REPORT IT TO THE OWNER. AFTER DEFICIENCIES ARE RESOLVED, RESCHEDULE TESTS.

J. IF THE TESTING PLAN INDICATES SPECIFIC SEASONAL TESTING, COMPLETE APPROPRIATE INITIAL PERFORMANCE TESTS AND DOCUMENTATION AND SCHEDULE SEASONAL TESTS.

#### 4. HVAC&R SYSTEMS, SUBSYSTEMS, AND EQUIPMENT TESTING PROCEDURES

A. BOILER TESTING AND ACCEPTANCE PROCEDURES: TESTING REQUIREMENTS ARE SPECIFIED IN HVAC BOILER SECTIONS. PROVIDE SUBMITTALS, TEST DATA, INSPECTOR RECORD, AND BOILER CERTIFICATION TO THE CXA.

B. HVAC&R INSTRUMENTATION AND CONTROL SYSTEM TESTING: FIELD TESTING PLANS AND TESTING REQUIREMENTS ARE SPECIFIED IN SECTION 230900 "INSTRUMENTATION AND CONTROL FOR HVAC" AND SECTION 230993 "SEQUENCE AND OPERATIONS FOR HVAC CONTROLS." ASSIST THE CXA WITH PREPARATION OF TESTING PLANS.

C. PIPE SYSTEM CLEANING, FLUSHING, HYDROSTATIC TESTS, AND CHEMICAL TREATMENT REQUIREMENTS ARE SPECIFIED IN HVAC PIPING SECTIONS. HVAC&R CONTRACTOR SHALL PREPARE A PIPE SYSTEM CLEANING, FLUSHING, AND HYDROSTATIC TESTING PLAN. PROVIDE CLEANING, FLUSHING, TESTING, AND TREATING PLAN AND FINAL REPORTS TO THE CXA. PLAN SHALL INCLUDE THE FOLLOWING:

a. SEQUENCE OF TESTING AND TESTING PROCEDURES FOR EACH SECTION OF PIPE TO BE TESTED, IDENTIFIED BY PIPE ZONE OR SECTOR IDENTIFICATION MARKER. MARKERS SHALL BE KEYS TO DRAWINGS FOR EACH PIPE SECTOR, SHOWING THE PHYSICAL LOCATION OF EACH DESIGNATED PIPE TEST SECTION. DRAWINGS KEYS TO PIPE ZONES OR SECTORS SHALL BE FORMATTED TO ALLOW EACH SECTION OF PIPING TO BE PHYSICALLY LOCATED AND IDENTIFIED WHEN REFERRED TO IN PIPE SYSTEM CLEANING, FLUSHING, HYDROSTATIC TESTING, AND CHEMICAL TREATMENT PLAN.

b. DESCRIPTION OF EQUIPMENT FOR FLUSHING OPERATIONS.

c. MINIMUM FLUSHING WATER VELOCITY.

d. TRACKING CHECKLIST FOR MANAGING AND ENSURING THAT ALL PIPE SECTIONS HAVE BEEN CLEANED, FLUSHED, HYDROSTATICALLY TESTED, AND CHEMICALLY TREATED.

D. REFRIGERATION SYSTEM TESTING: PROVIDE TECHNICIANS, INSTRUMENTATION, TOOLS, AND EQUIPMENT TO TEST PERFORMANCE OF COOLING TOWERS, REFRIGERANT COMPRESSORS AND CONDENSERS, AND OTHER REFRIGERATION SYSTEMS. THE CXA SHALL DETERMINE THE SEQUENCE OF TESTING AND TESTING PROCEDURES FOR EACH EQUIPMENT ITEM AND PIPE SECTION TO BE TESTED.

E. HVAC&R DISTRIBUTION SYSTEM TESTING: PROVIDE TECHNICIANS, INSTRUMENTATION, TOOLS, AND EQUIPMENT TO TEST PERFORMANCE OF HYDRONIC DISTRIBUTION SYSTEMS AND OTHER DISTRIBUTION SYSTEMS, INCLUDING HVAC&R UNITARY EQUIPMENT.

F. VIBRATION AND SOUND TESTS: PROVIDE TECHNICIANS, INSTRUMENTATION, TOOLS, AND EQUIPMENT TO TEST PERFORMANCE OF VIBRATION ISOLATION.

# McNair Hall - Phase 1.2

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HOUSTON TEXAS 77005

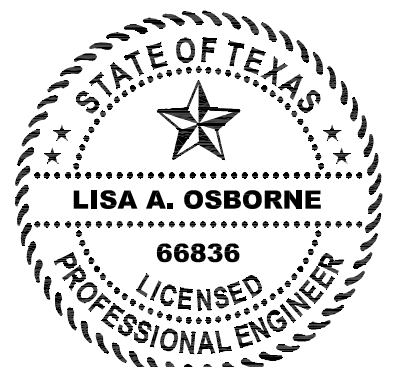
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Date	Description
1 08/26/2019	CD PAGE TURN REVIEW
2 09/09/2019	ISSUE FOR PERMIT, PRICING & CONSTRUCTION

Seal / Signature



Project Name *McNair Hall - Phase 1.2 - Rotunda*

Project Number  
02.8270.000

Description  
SYMBOLS & ABBREVIATIONS

Scale  
12" = 1'-0"

# M0.0

## GRILLE - REGISTER - DIFFUSER

Diffuser Type	Size	Type	Manufacturer & Model	Finish	Description	Notes
A	24"x24"	CEILING SUPPLY	TITUS OMNI-AA	WHITE	SQUARE PLAQUE HIGH CAPACITY, NECK SIZE PER PLANS, T-BAR MOUNTING	
C	24"x24"	CEILING EXHAUST	TITUS OMNI-AA	WHITE	SAME AS TYPE "A"	
L1	4'-0"	SUPPLY PLENUM	TITUS FBP	ALUMINIUM	INSULATED PLENUM FOR USE WITH TYPE "S1" DIFFUSER. PLENUM SHALL BE 4'-0" LONG UNLESS OTHERWISE NOTED. INLET DIAMETER PER PLANS	
L2	2'-0"	SUPPLY PLENUM	TITUS FBP	ALUMINIUM	INSULATED PLENUM FOR USE WITH TYPE "S2" DIFFUSER. PLENUM SHALL BE 2'-0" LONG UNLESS OTHERWISE NOTED. INLET DIAMETER PER PLANS	
S1	PER PLANS	LINEAR SUPPLY	TITUS FL-10-JT	RE: ARCHITECT	CONTINUOUS SLOT DIFFUSER WITH (1) - 1" SLOT, CONCEALED MOUNTING BORDER TYPE 77	
S2	PER PLANS	LINEAR SUPPLY	TITUS FL-20-JT	RE: ARCHITECT	CONTINUOUS SLOT DIFFUSER WITH (1) - 2" SLOT, CONCEALED MOUNTING BORDER TYPE 77	

### SHEET NOTES

- M1 NEW SLOT DIFFUSER TO BE INSTALLED AT SIDEWALL. PROVIDE NEW PLENUMS AS SCHEDULED AND SHOWN ON PLANS.
- M2 NEW SLOT DIFFUSER TO BE INSTALLED WITHIN 4.5' OF WOODEN TRIM. PROVIDE NEW PLENUMS AS SCHEDULED AND SHOWN ON PLANS.
- M3 PROVIDE NEW TAP FOR NEW DUCTWORK AT THIS LOCATION. REPAIR INSULATION AS REQUIRED.
- M59 RELOCATE EXISTING THERMOSTAT TO THIS LOCATION.

**McNair Hall - Phase 1.2**  
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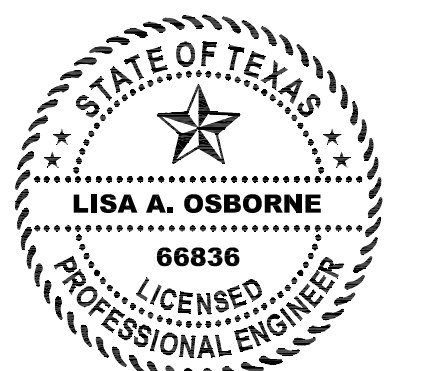
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### GENERAL NOTES

- A** CONTRACTOR SHALL INCLUDE IN THE BID INSTALLATION OF SPRINKLER HEADS IN NEW ROTUNDA CEILING WITH LAYOUT AS REQUIRED TO MEET COVERAGE NECESSARY PER REVISED ARCHITECTURAL ROTUNDA DESIGN. SPRINKLER MODIFICATIONS SHALL BE COMPATIBLE WITH EXISTING FIRE PROTECTION SYSTEM. CONTRACTOR SHALL CONFIRM FIRE SPRINKLER SYSTEM CONTRACTOR REQUIREMENTS / MAINTENANCE CONTRACT INFORMATION WITH RICE PROJECT MANAGER.

- | Date       | Description                              |
|------------|--|
| 08/26/2019 | CD PAGE TURN REVIEW                      |
| 09/09/2019 | ISSUE FOR PERMIT, PRICING & CONSTRUCTION |

### Seal / Signature



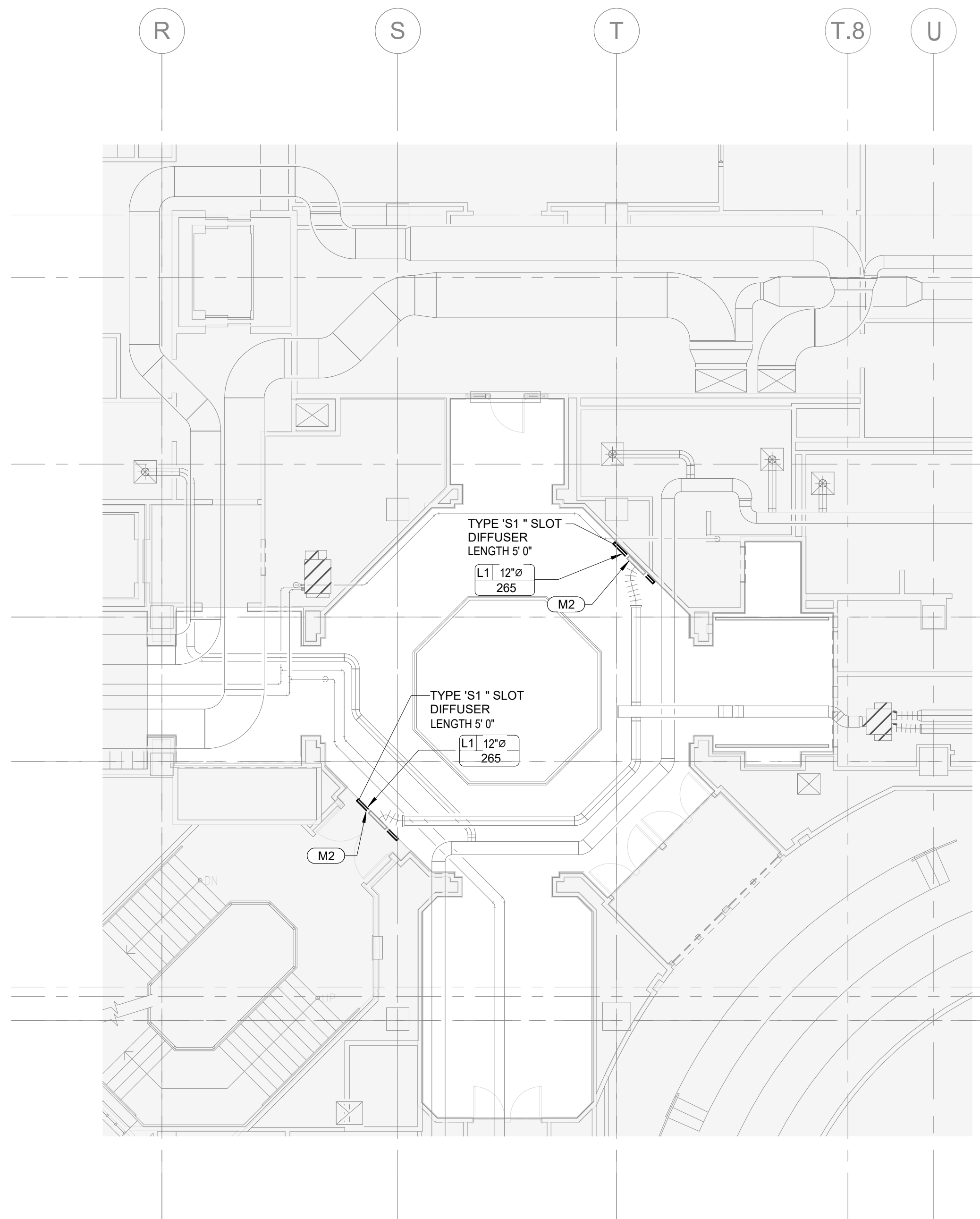
Project Name *Lisa Osborne*  
 McNair Hall - Phase 1.2 - Rotunda

Project Number  
 02.8270.000

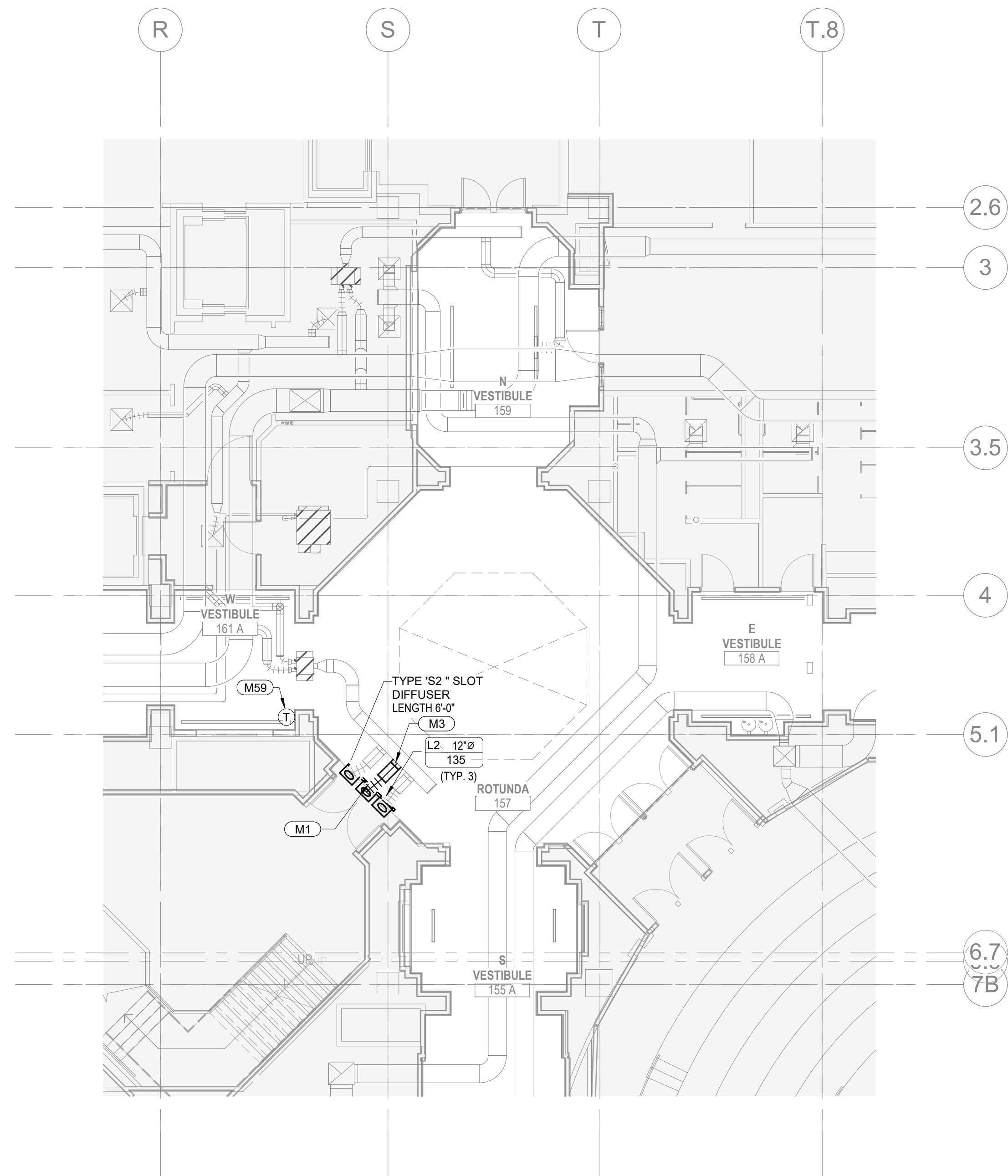
Description  
 MECHANICAL PLANS - ROTUNDA

Scale  
 1/8" = 1'-0"

**M1.1**



**2 MECHANICAL PLAN - LEVEL 2**  
 SCALE: 1/8" = 1'-0"



**1 MECHANICAL PLAN - LEVEL 1**  
 SCALE: 1/8" = 1'-0"