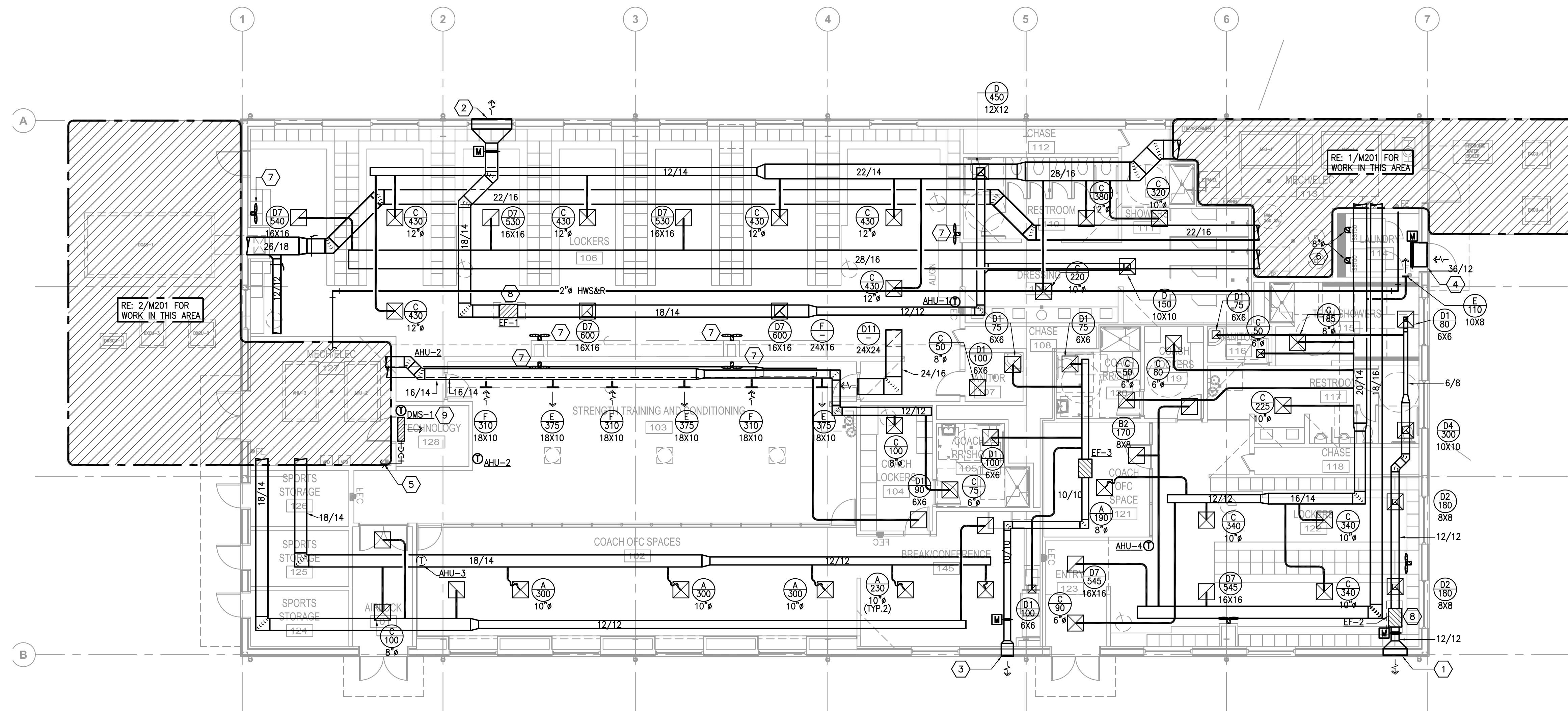
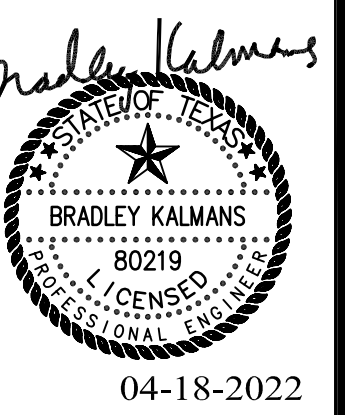


MECHANICAL KEYED NOTES

- 1 PROVIDE 36"/12" RUSKIN ALUMINUM WIND-DRIVEN RAIN RESISTANT EXHAUST AIR LOUVER MODEL EMES200D OR APPROVED EQUAL AT SIZE INDICATED WITH A MINIMUM FREE AREA OF 0.88 SQ FT. REFER TO X/M401 FOR LOUVER DETAIL.
- 2 PROVIDE 60"/12" RUSKIN ALUMINUM WIND-DRIVEN RAIN RESISTANT EXHAUST AIR LOUVER MODEL EMES200D OR APPROVED EQUAL AT SIZE INDICATED WITH A MINIMUM FREE AREA OF 1.51 SQ FT. REFER TO 9/M401 FOR LOUVER DETAIL.
- 3 PROVIDE 18"/12" RUSKIN ALUMINUM WIND-DRIVEN RAIN RESISTANT EXHAUST AIR LOUVER MODEL EMES200D OR APPROVED EQUAL AT SIZE INDICATED WITH A MINIMUM FREE AREA OF 0.41 SQ FT. REFER TO 9/M401 FOR LOUVER DETAIL.
- 4 PROVIDE 36"/12" RUSKIN ALUMINUM WIND-DRIVEN RAIN RESISTANT EXHAUST AIR LOUVER MODEL EMES200D OR APPROVED EQUAL AT SIZE INDICATED WITH A MINIMUM FREE AREA OF 0.88 SQ FT. REFER TO X/M401 FOR LOUVER DETAIL.
- 5 ROUTE 3/4" CONDENSATE DRAIN PIPING TO FLOOR SINK IN MECH ROOM. RE: 2/M201 FOR CONTINUATION.
- 6 ROUTE DUCT FROM CONNECTION AT DRYER UP THROUGH ROOF. TERMINATE TO GOOSENECK WITH GRAVITY BACK DRAFT DAMPER WITH NO BIRD OR BUG SCREEN. SIZE AND ROUTE DUCT IN STRICT ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS. RE: DETAILS XX & X/MXX.
- 7 OSCILLATING AIR CIRCULATOR FAN. REFER TO FAN SPECIFICATION SECTION FOR MORE INFORMATION.
- 8 COORDINATE WITH ARCHITECT 48"x24" SERVICE ACCESS PANEL ON CEILING FOR INLINE FAN.
- 9 ROUTE REFRIGERANT LINES TO ASSOCIATED CONDENSING UNIT.



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



WEST BROOK AUXILIARY FIELD HOUSE
 Beaumont Independent School District
 8750 Phelan Blvd
 Beaumont, TX 77706

ISSUED FOR	100% REVIEW	<input checked="" type="checkbox"/>
DATE:	01/12/2022	
DESIGN DEVELOPMENT		<input type="checkbox"/>
DATE:	----	
BIDS & CONSTRUCTION		<input checked="" type="checkbox"/>
DATE:	04/18/2022	
REVISION:		
DATE:		
REVISION:		
DATE:		
REVISION:		
DATE:		

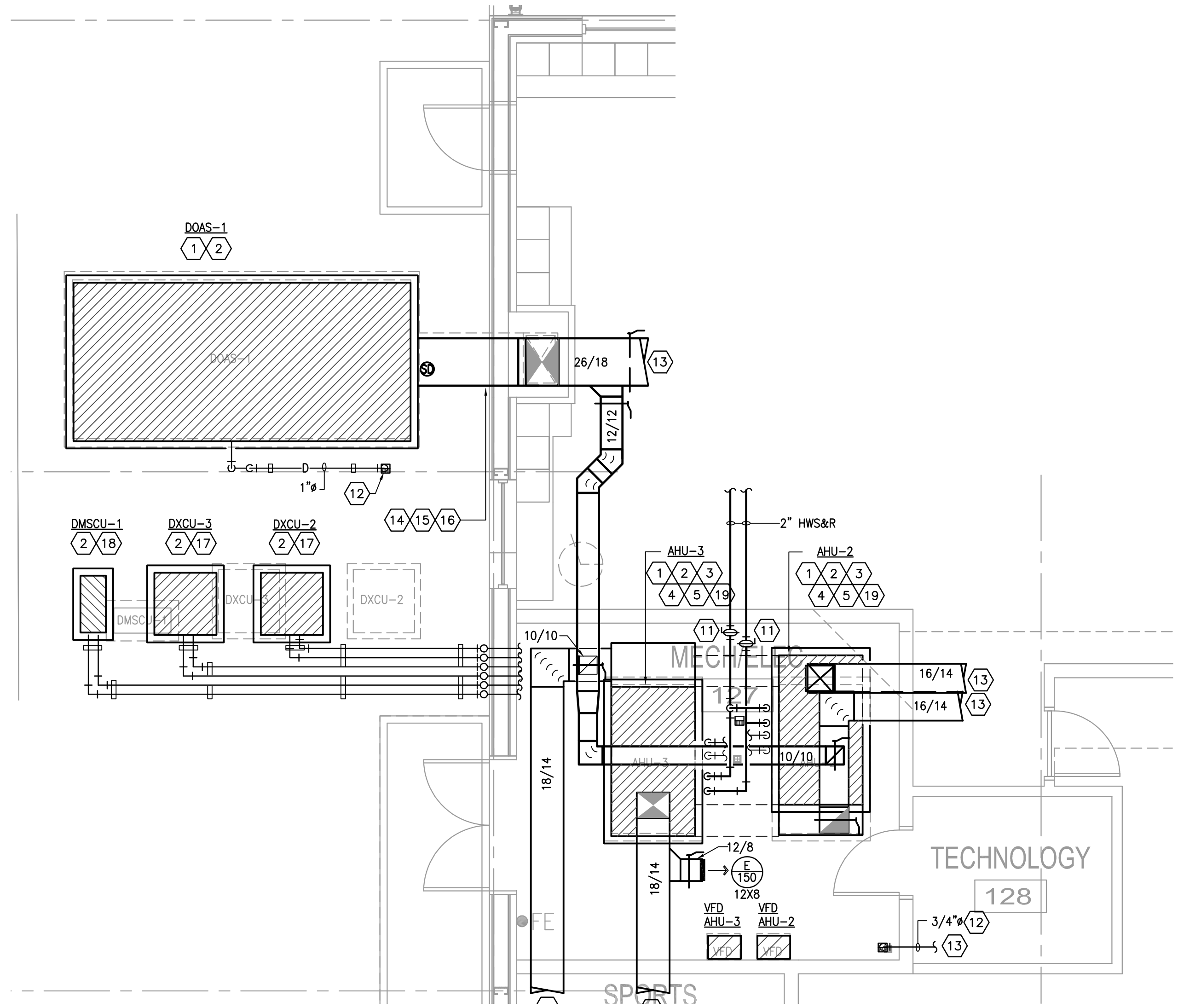
DRAWINGS SHEET TITLE
MECHANICAL FLOOR PLAN

SALASOBRIEN
Expect a difference.
 10930 W. Sam Houston Parkway N., Suite 900
 Houston, Texas 77064
 281.664.1900 | Registration No. F-4111
 Project No. 2021-04159-00

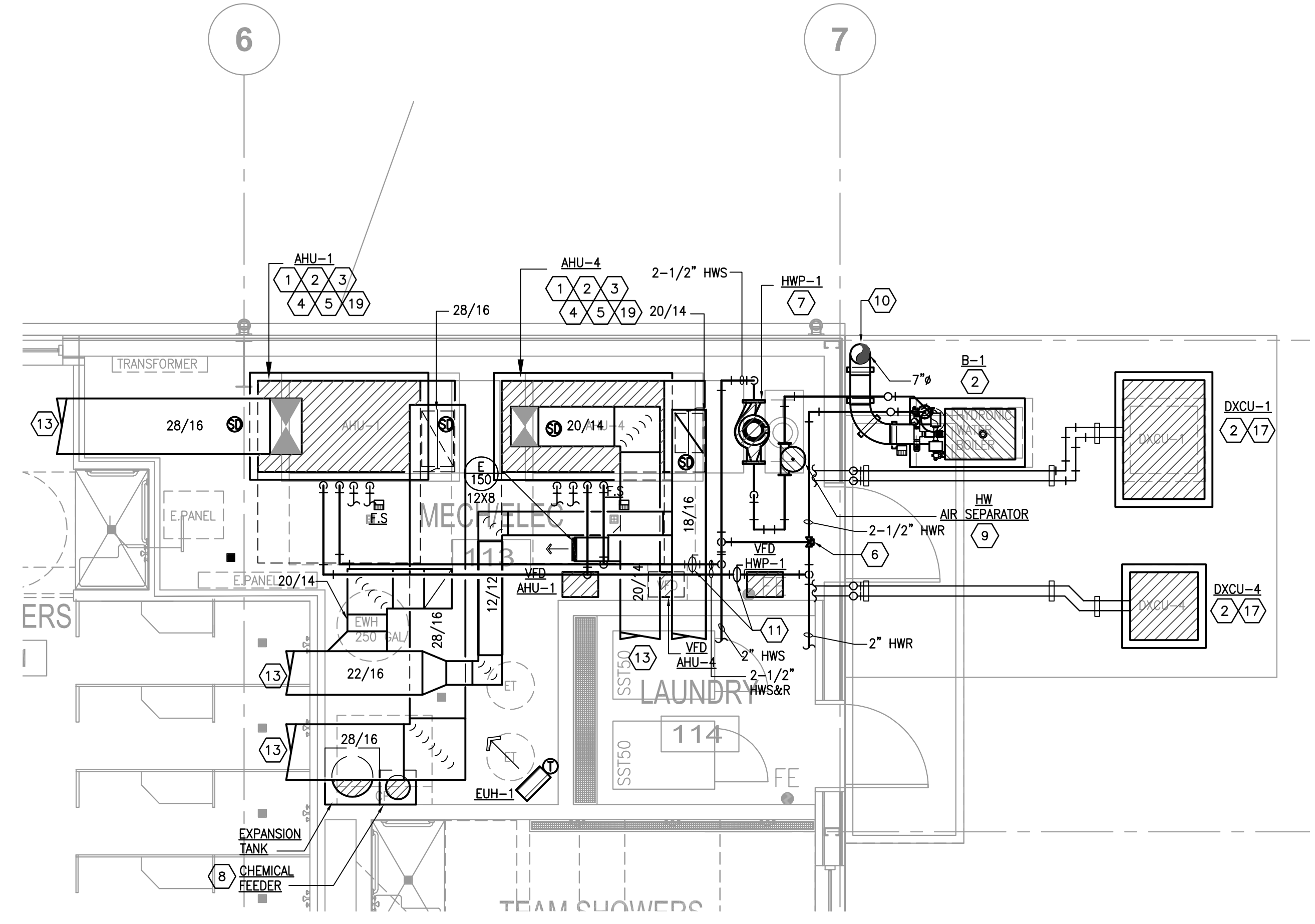
SHEET NUMBER
M101
 21021
 PROJECT NUMBER

MECHANICAL KEYED NOTES

- 1 VERIFY SERVICE CLEARANCES FOR AIR FILTER, FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
- 2 PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
- 3 ROUTE FULL SIZE CONDENSATE DRAIN PIPING TO FLOOR DRAIN (SEE PLUMBING DRAWING FOR EXACT LOCATION).
- 4 REFER TO DETAILS FOR CONDENSATE PIPING AT AHU.
- 5 REFER TO DETAILS FOR COIL PIPING AT AHU.
- 6 COLD WATER PROTECTION 3 WAY CONTROL VALVE.
- 7 RE: 10/M401 FOR DETAIL ON VERTICAL INLINE PUMP SUPPORT.
- 8 RE: 7/M401 FOR CHEMICAL FEEDER TANK SUPPORT.
- 9 RE: 4/M401 FOR AIR SEPARATOR SUPPORT.
- 10 ROUTE STAINLESS STEEL EXHAUST AIR DUCTWORK AT SIZE INDICATED UP 4'-0" ABOVE FINISHED ROOF.
- 11 PROVIDE ISOLATION VALVE.
- 12 ROUTE CONDENSATE DRAIN PIPING AT SIZE INDICATED TO FLOOR SINK.
- 13 RE: 1/M101 FOR CONTINUATION.
- 14 PROVIDE ENCLOSED DUCT SUPPORT MODEL PHP-D.
- 15 PROVIDE VERTICAL DUCT SUPPORT AS SPECIFIED.
- 16 PROVIDE OUTDOOR DUCTWORK INSULATION AS PER SPECIFICATIONS.
- 17 ROUTE REFRIGERANT PIPING TO ASSOCIATED AIR HANDLING UNIT. PROVIDE PIPE SUPPORTS AS SPECIFIED.
- 18 ROUTE REFRIGERANT PIPING TO ASSOCIATED INDOOR UNIT. PROVIDE PIPE SUPPORTS AS SPECIFIED.
- 19 ROUTE REFRIGERANT PIPING TO ASSOCIATED AIR CONDENSING UNIT.



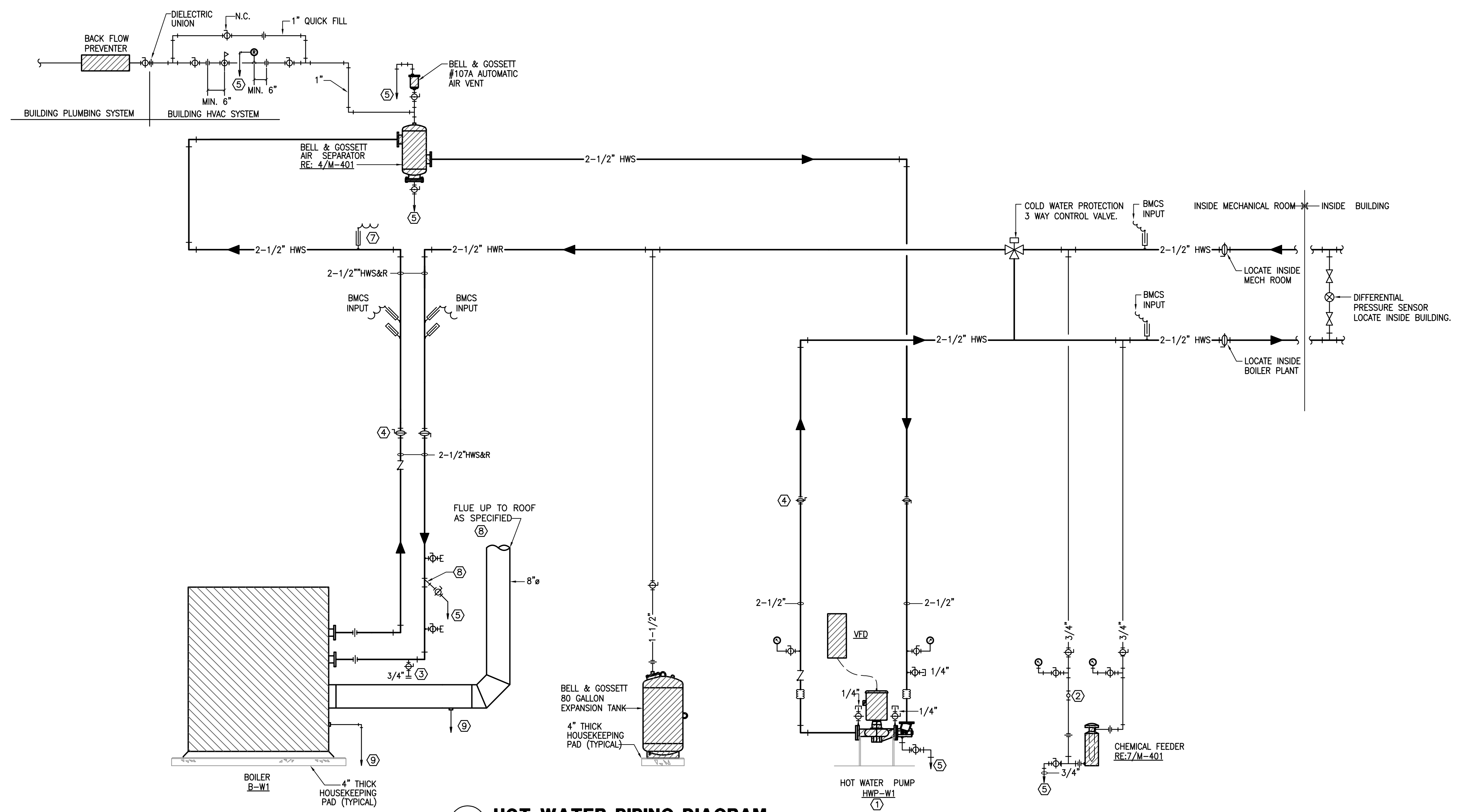
2 MECHANICAL ENLARGED FLOOR PLAN -
 SCALE: 1/4" = 1'-0"



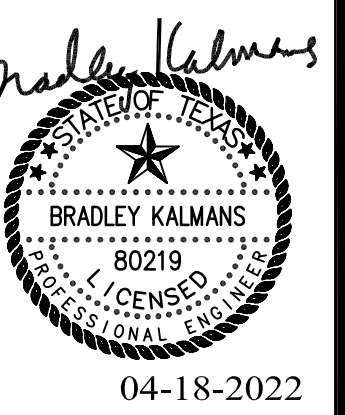
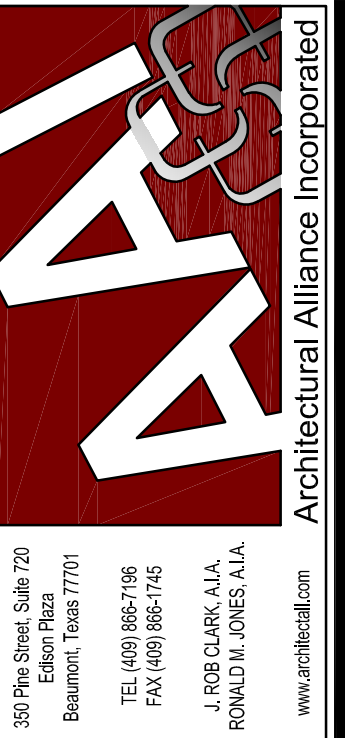
1 MECHANICAL ENLARGED FLOOR PLAN -
 SCALE: 1/4" = 1'-0"

MECHANICAL KEYED NOTES

- ① VERTICAL INLINE PUMP. REFER TO 10/M-401 FOR ADDITIONAL INFORMATION.
- ② PROVIDE AN ERNEST GAUGE #E-57-3 BRONZE BODY SIGHT GLASS WITH S.S. SHAFT, PLASTIC SPINNER AND DOUBLE WINDOW. OPERATING TEMPERATURE AND PRESSURE SHALL BE 200°F, 125 PSI MINIMUM.
- ③ PROVIDE BALL VALVE WITH HOSE THREAD ADAPTER AT FULL SIZE UNLESS OTHERWISE NOTED.
- ④ BALANCING VALVE TO BE PROVIDED WITH INFINITE POSITION CRANK OR MEMORY STOP FOR BALANCING SERVICE.
- ⑤ ROUTE TYPE "L" COPPER DRAIN AT FULL SIZE INDICATED TO NEAREST FLOOR DRAIN.
- ⑥ PROVIDE INLINE STRAINER.
- ⑦ HEADER TEMPERATURE SENSOR. PROVIDED BY BOILER MANUFACTURER.
- ⑧ REFER TO DETAIL 11/M-401 FOR MORE INFORMATION ON POWER EXHAUSTED FLUE.
- ⑨ ROUTE FULL SIZE CPVC PIPING FROM BOILER TO ACID NEUTRALIZATION BASIN AND FROM BASIN TO FLOOR SINK.



1 HOT WATER PIPING DIAGRAM
SCALE: NO SCALE



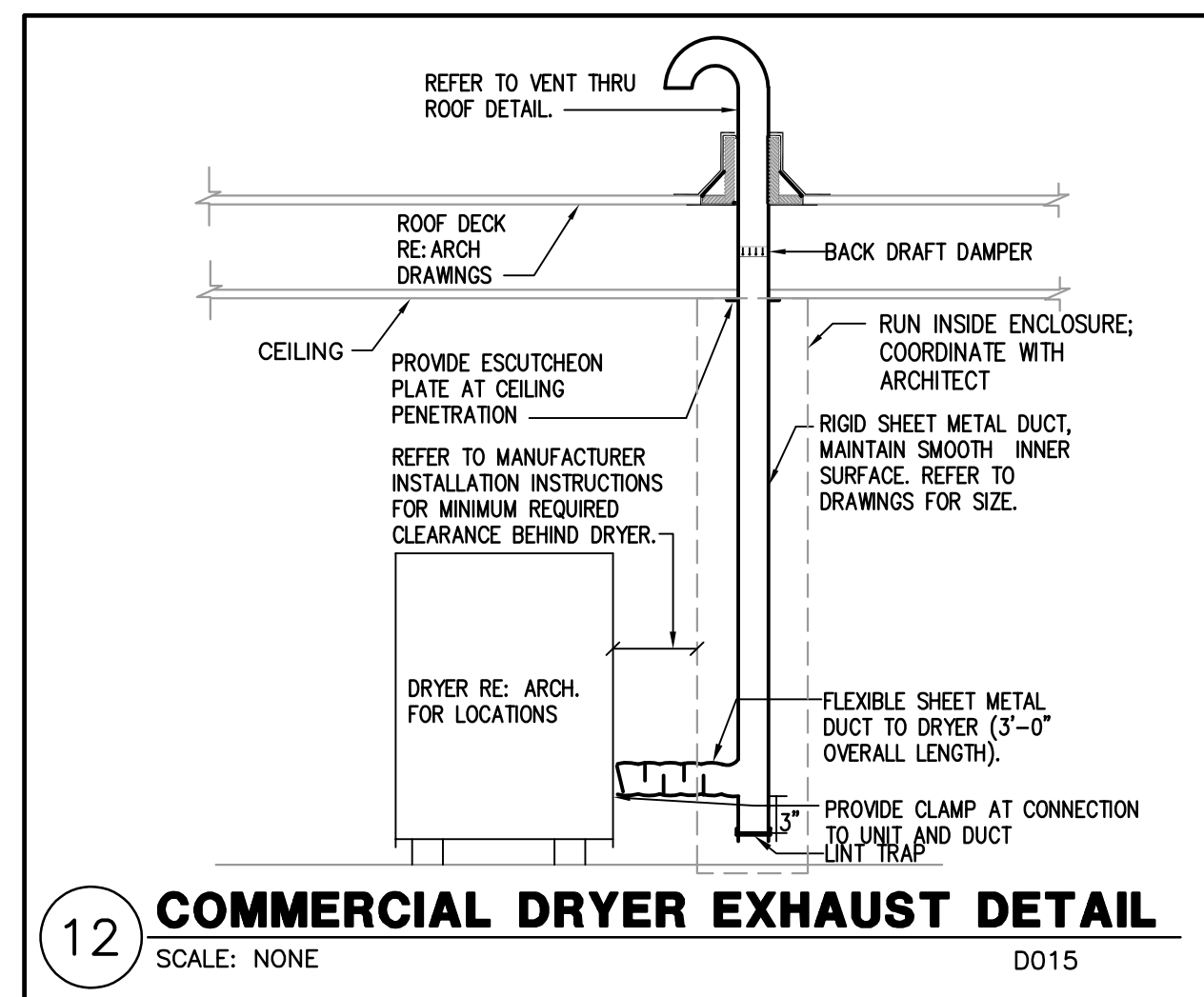
WEST BROOK AUXILIARY FIELD HOUSE
Beaumont Independent School District
8750 Phelan Blvd
Beaumont, TX 77706

ISSUED FOR 100% REVIEW	<input checked="" type="checkbox"/>
DATE: 01/12/2022	
DESIGN DEVELOPMENT	<input type="checkbox"/>
DATE: ---	
BIDS & CONSTRUCTION	<input checked="" type="checkbox"/>
DATE: 04/18/2022	
REVISION:	DATE: _____
REVISION:	DATE: _____
REVISION:	DATE: _____

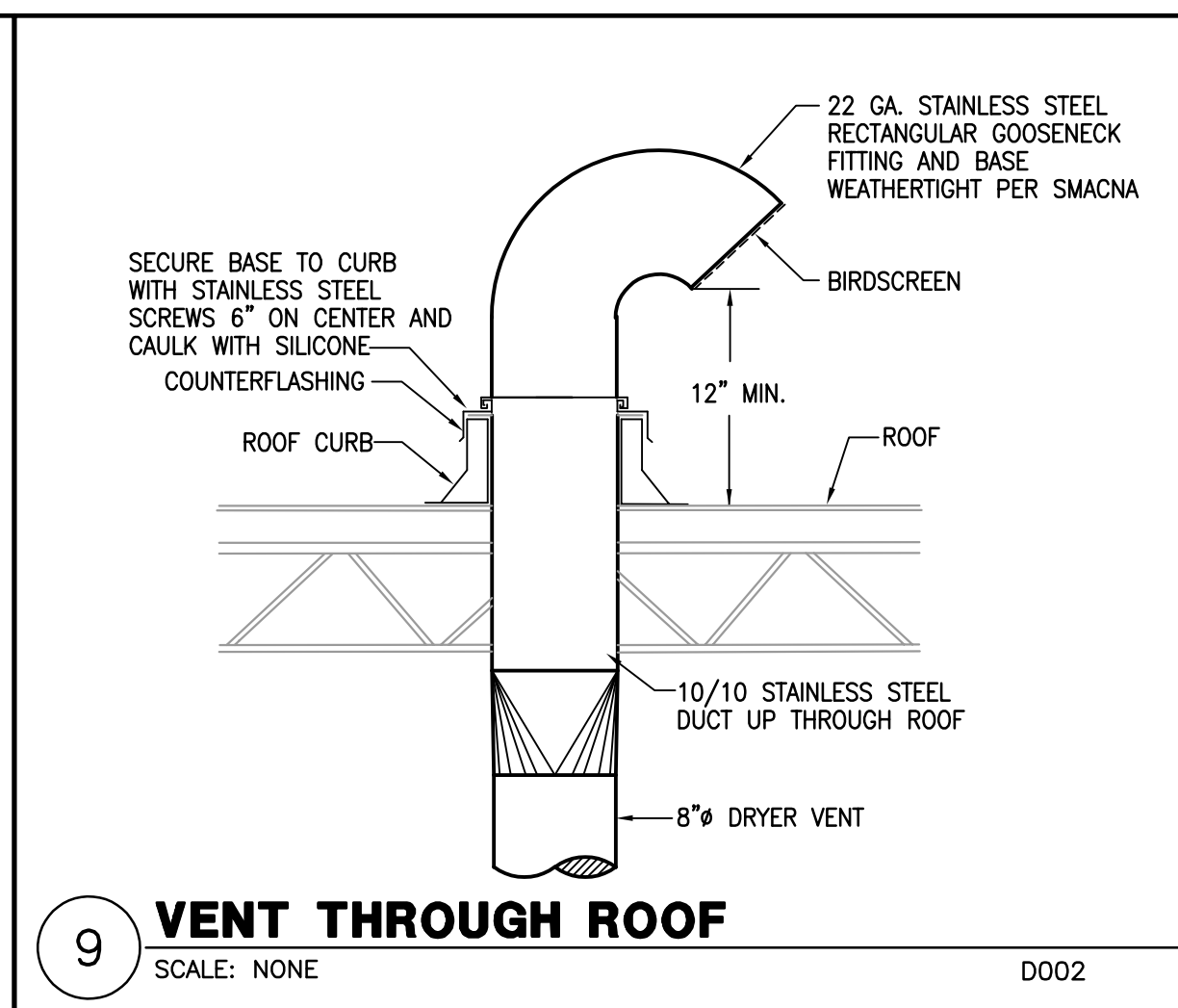
DRAWINGS SHEET TITLE
MECHANICAL PIPING DIAGRAM



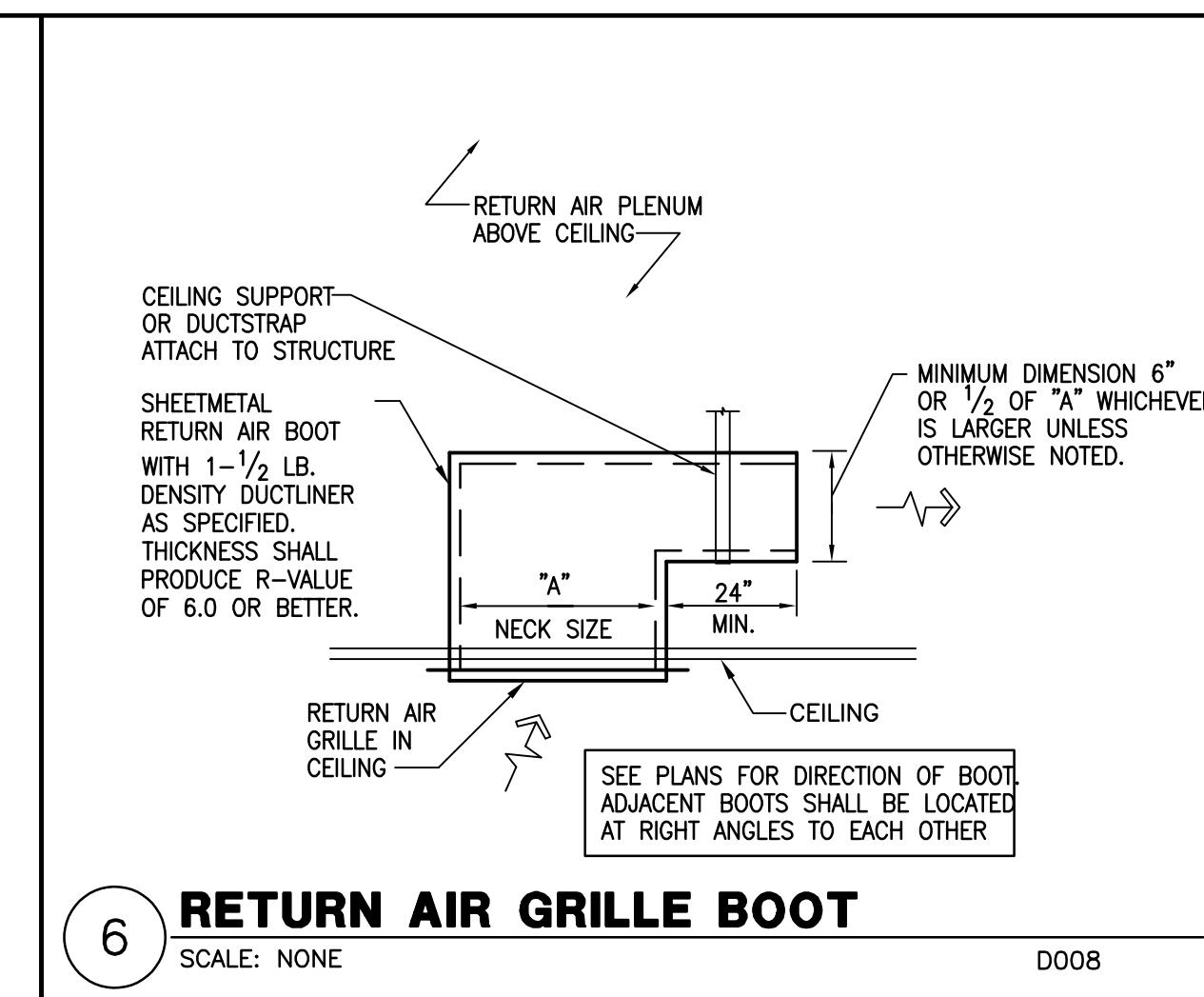
SHEET NUMBER
M301
21021
PROJECT NUMBER



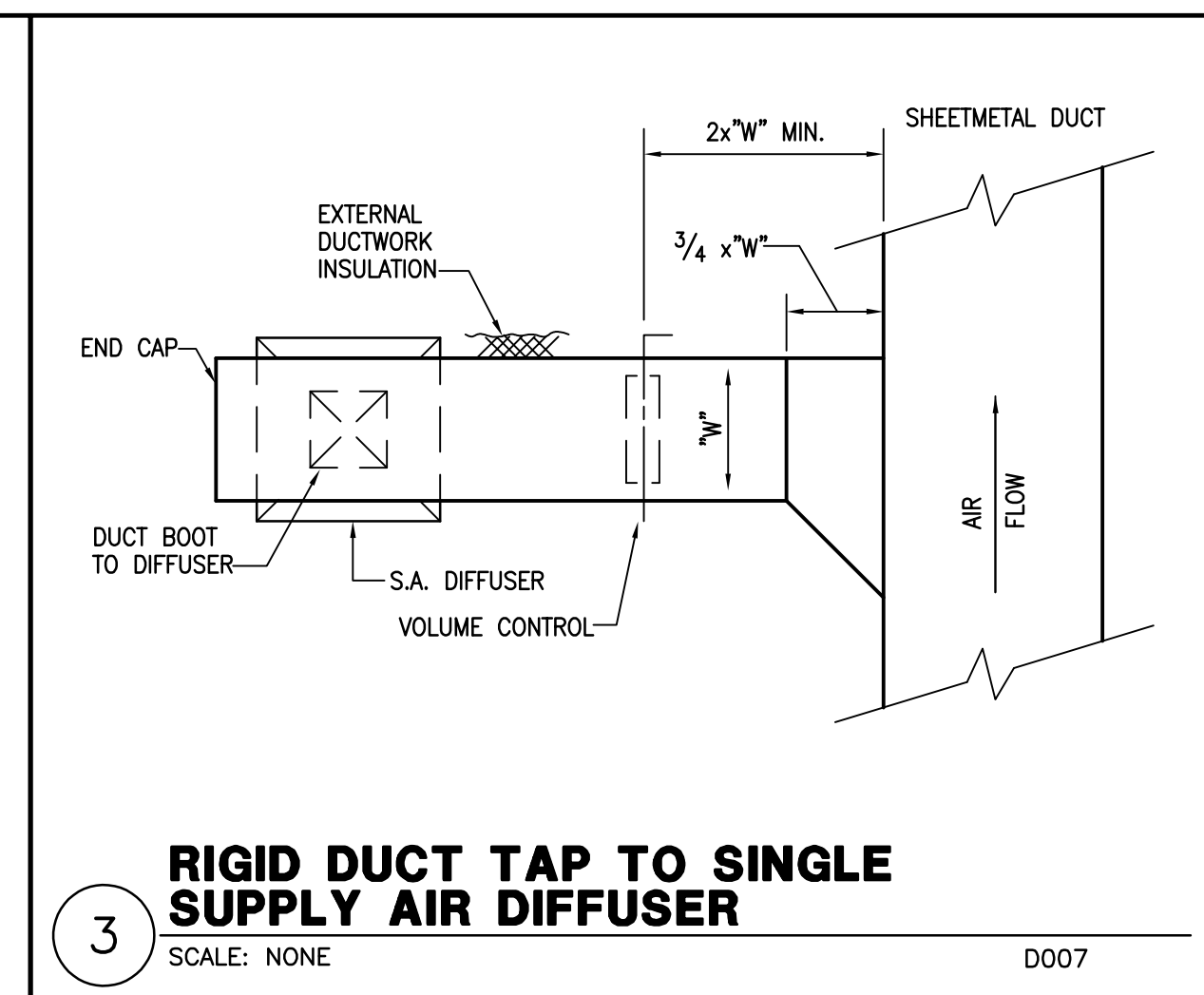
12 COMMERCIAL DRYER EXHAUST DETAIL
SCALE: NONE D015



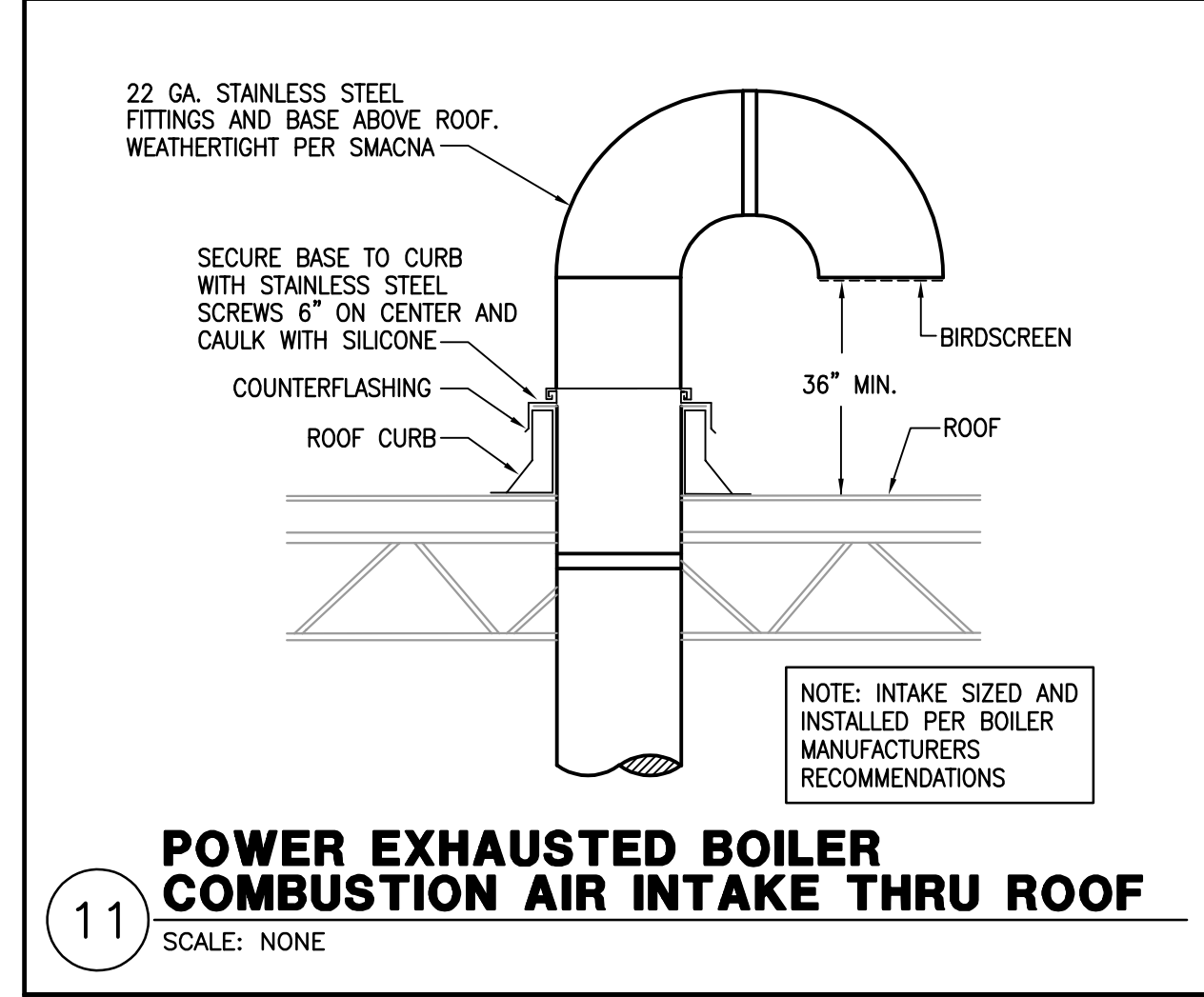
9 VENT THROUGH ROOF
SCALE: NONE D002



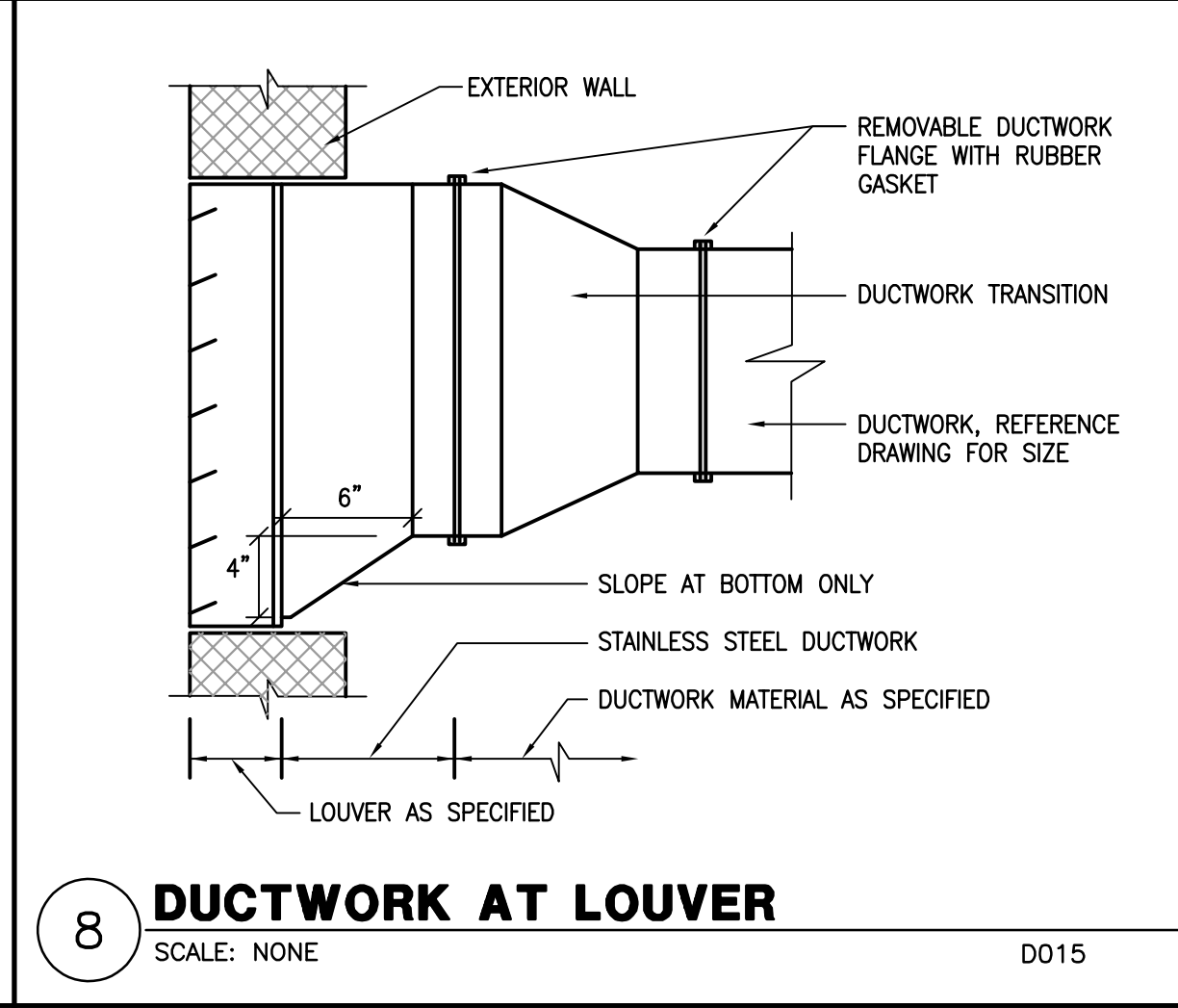
6 RETURN AIR GRILLE BOOT
SCALE: NONE D008



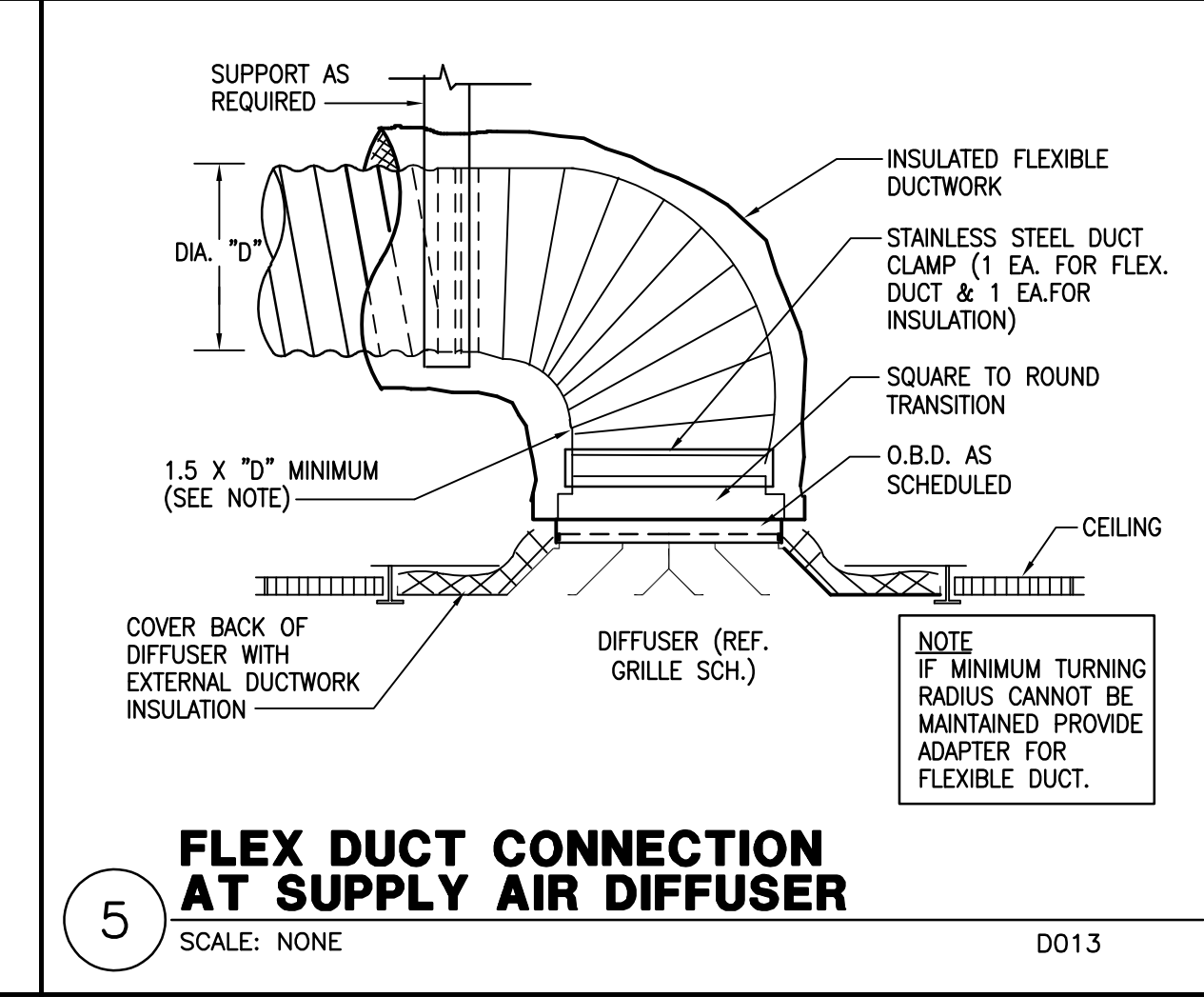
3 RIGID DUCT TAP TO SINGLE SUPPLY AIR DIFFUSER
SCALE: NONE D007



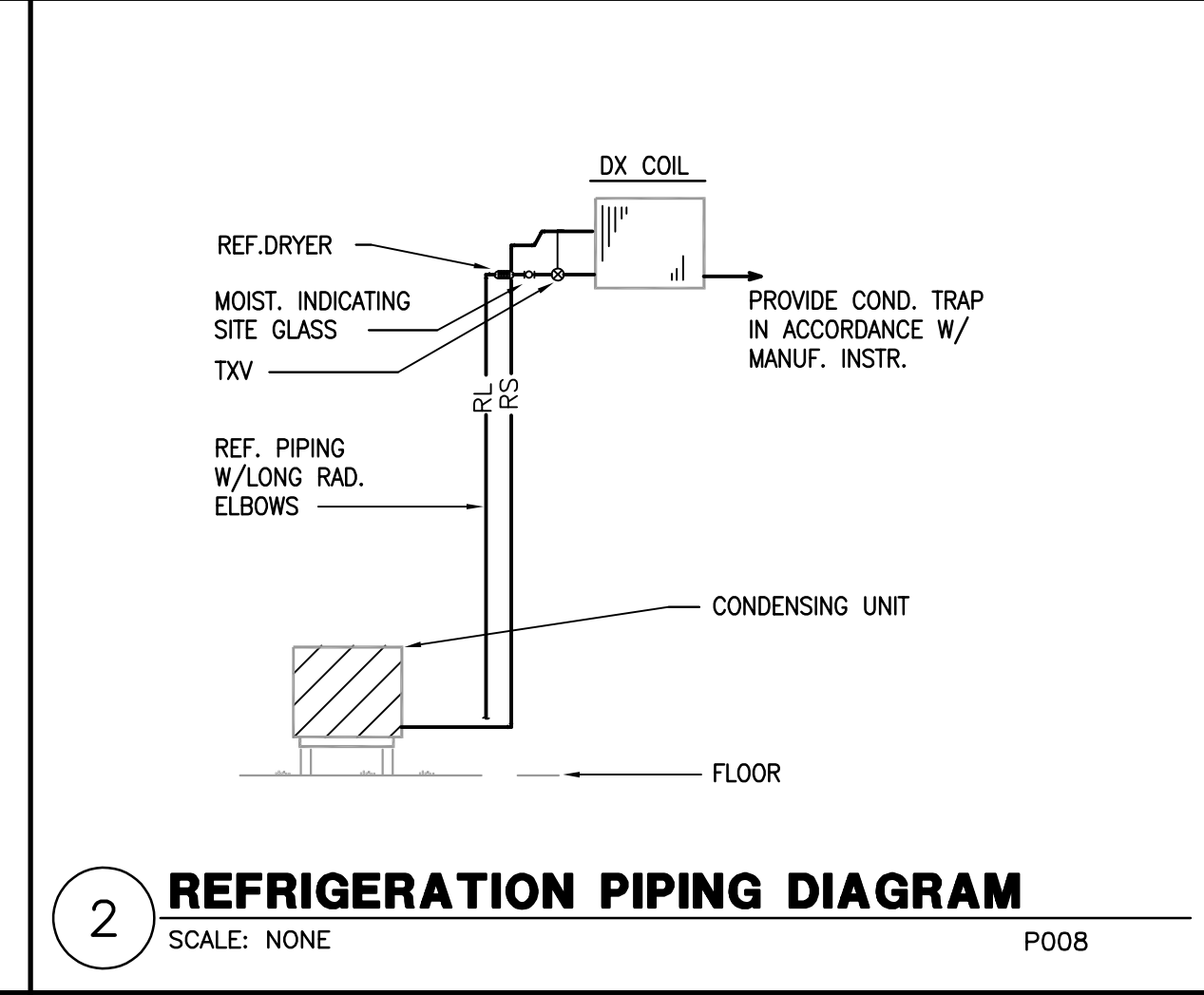
11 POWER EXHAUSTED BOILER COMBUSTION AIR INTAKE THRU ROOF
SCALE: NONE



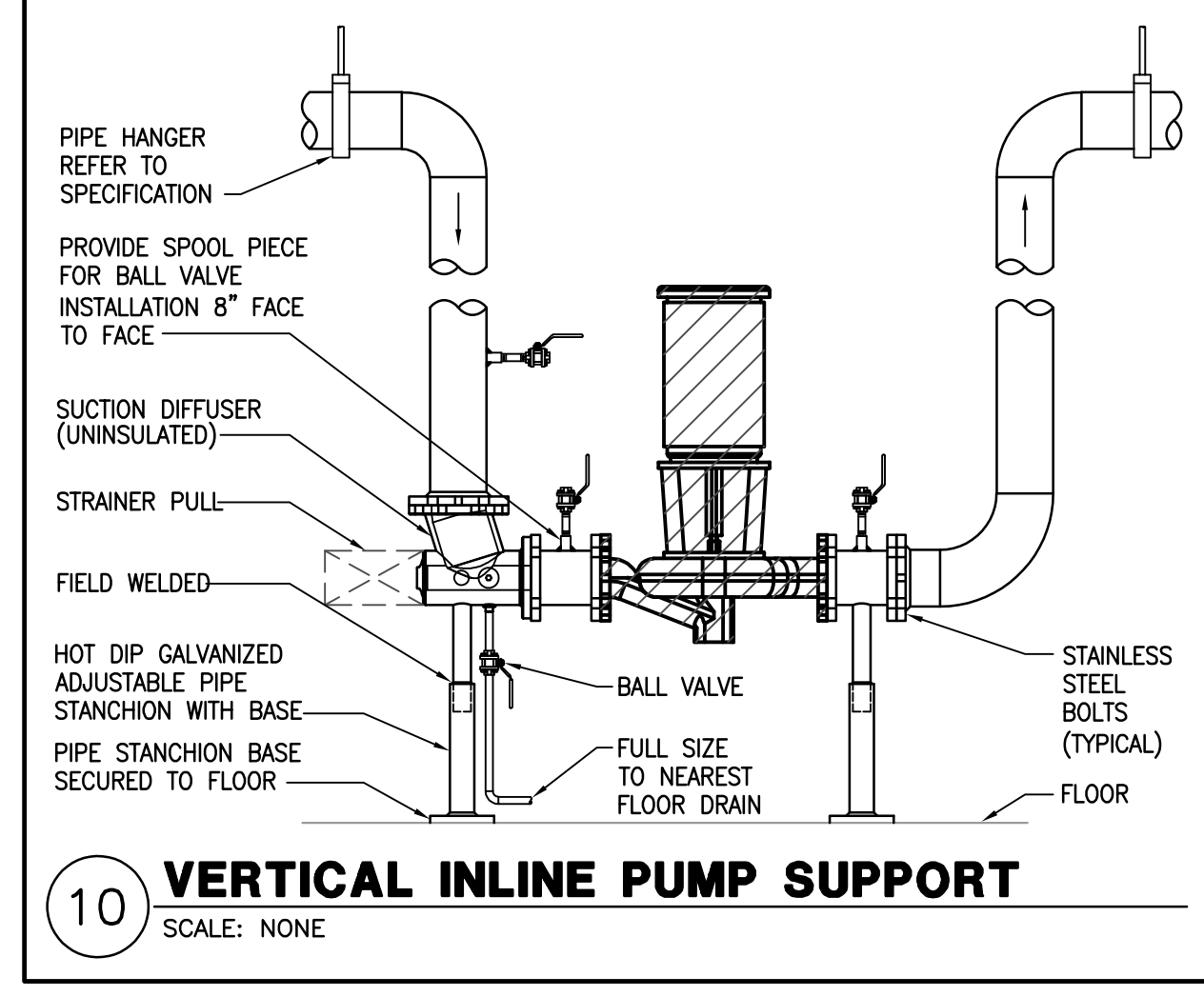
8 DUCTWORK AT LOUVER
SCALE: NONE D015



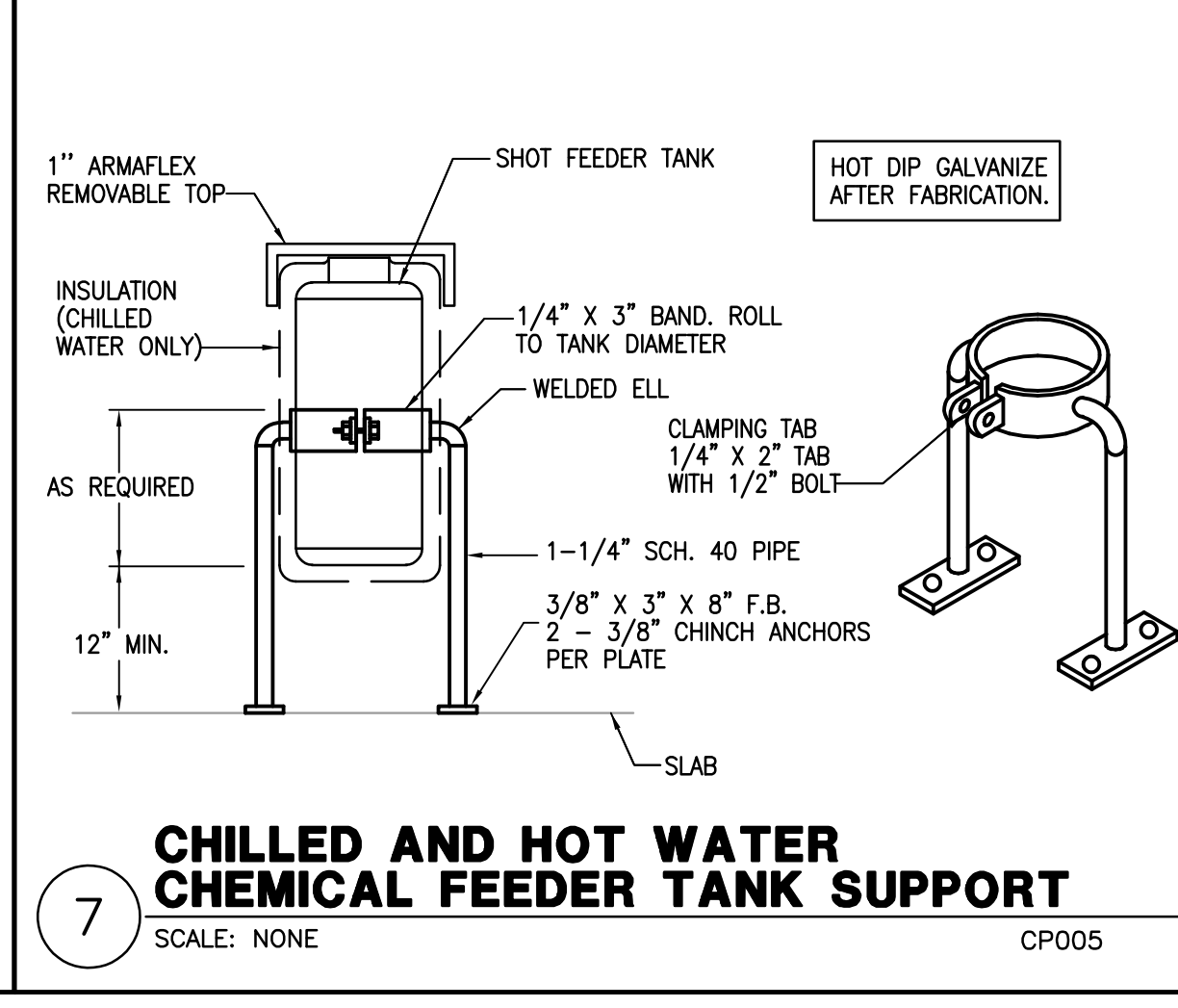
5 FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
SCALE: NONE D013



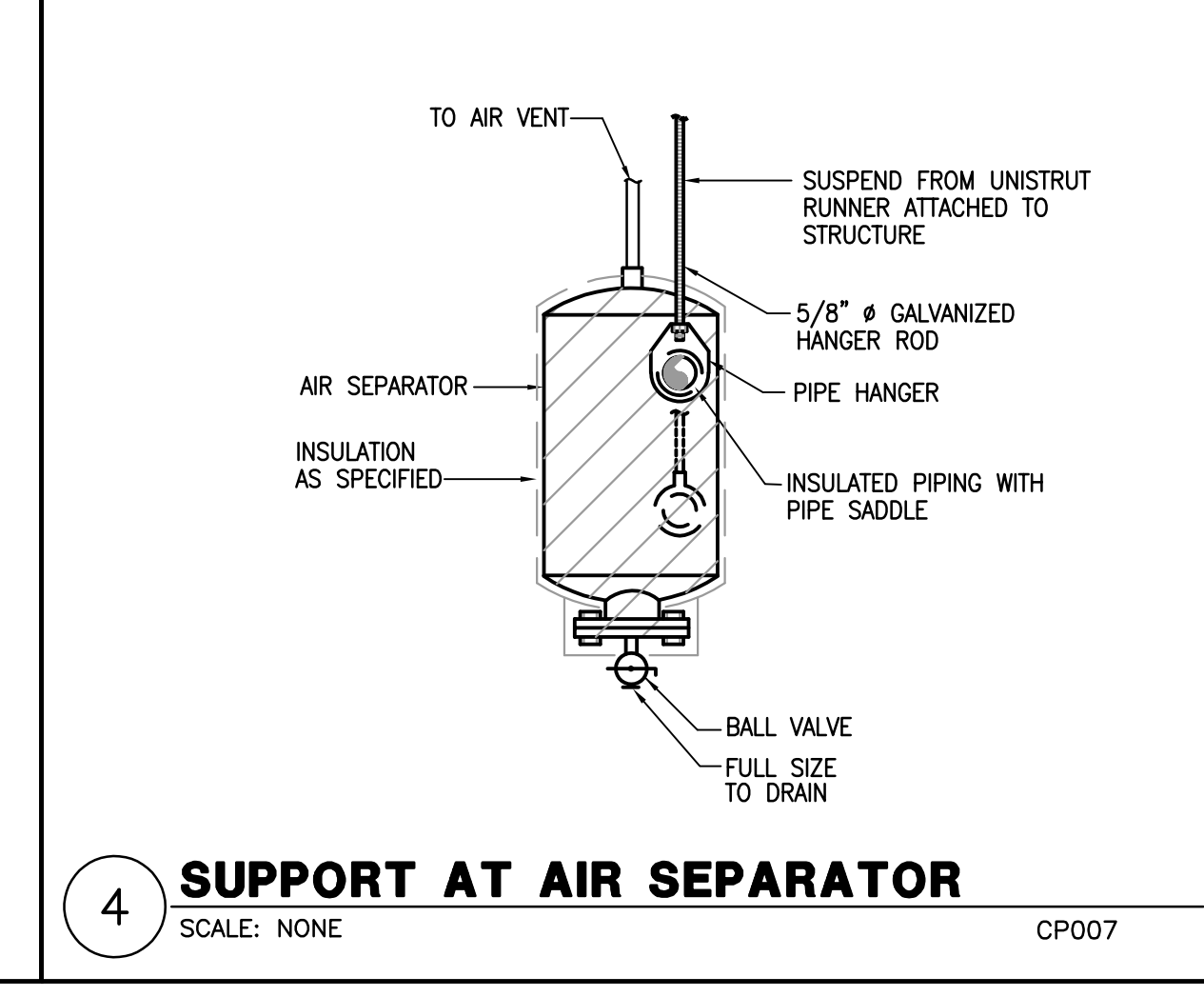
2 REFRIGERATION PIPING DIAGRAM
SCALE: NONE P008



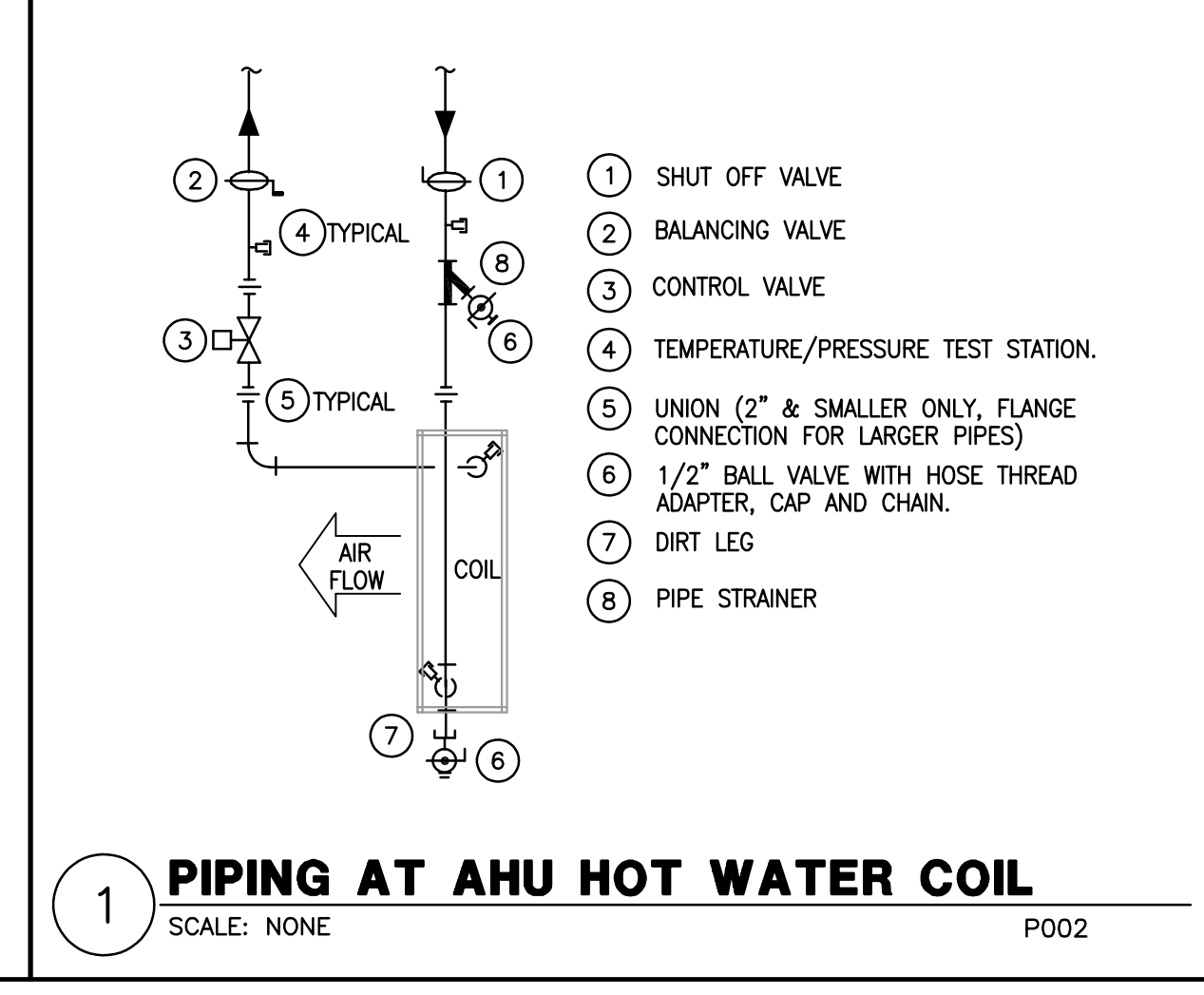
10 VERTICAL IN-LINE PUMP SUPPORT
SCALE: NONE



7 CHILLED AND HOT WATER CHEMICAL FEEDER TANK SUPPORT
SCALE: NONE CP005

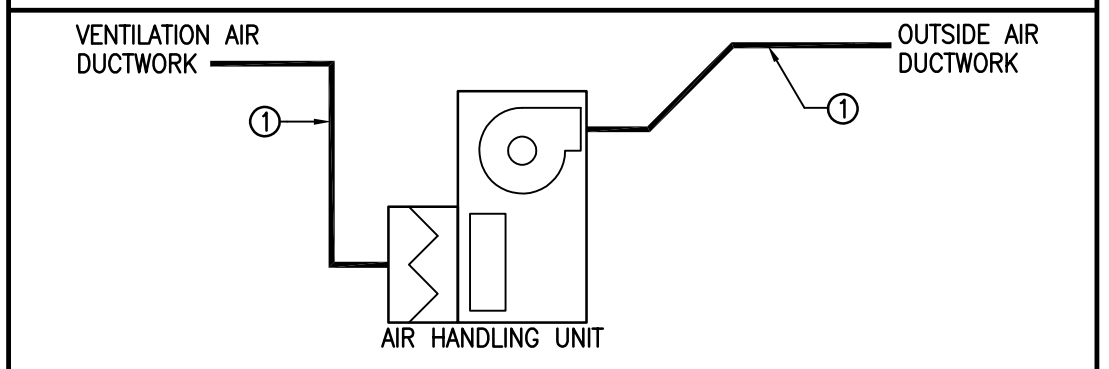


4 SUPPORT AT AIR SEPARATOR
SCALE: NONE CP007

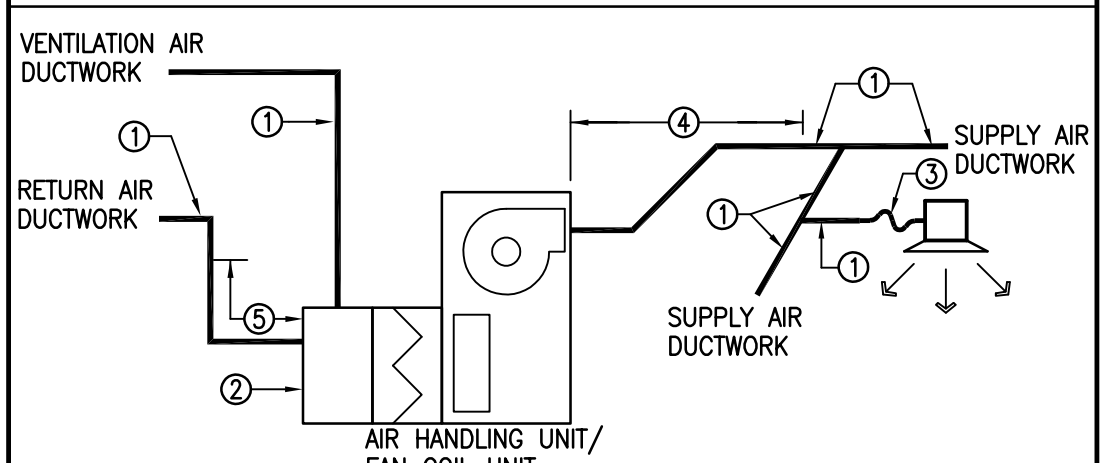


1 PIPING AT AHU HOT WATER COIL
SCALE: NONE P002

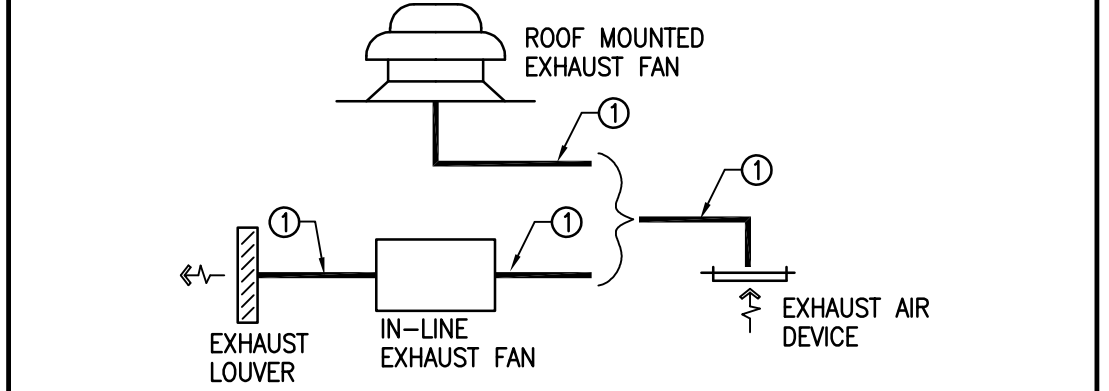
DUCT LINER AND INSULATION



OUTSIDE AIR PRETREATMENT UNIT



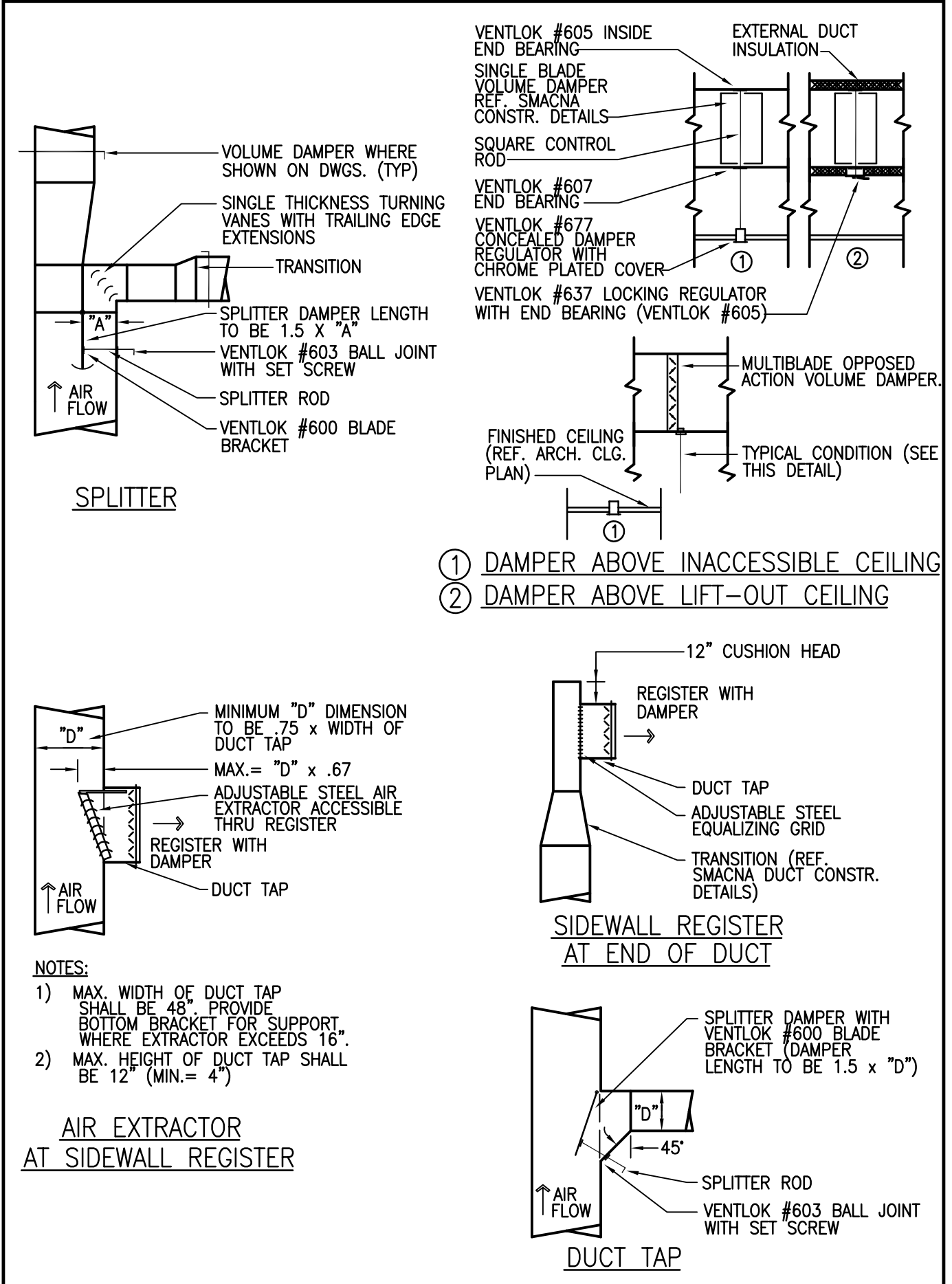
AIR HANDLING UNITS AND FAN COIL UNITS



EXHAUST AIR SYSTEMS

- NOTES**
- 1) SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
 - 2) SHEETMETAL DUCTWORK RETURN AIR PLENUM WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
 - 3) FLEXIBLE DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
 - 4) SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT DISCHARGE TO 10'-0" DOWNSTREAM.
 - 5) SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT INLET TO 10'-0" UPSTREAM.
 - 6) EXHAUST DUCTWORK AS SPECIFIED WITH FIREBOARD INSULATION AS SPECIFIED.
 - 7) SHEETMETAL DUCTWORK ONLY. NO INSULATION REQUIRED.

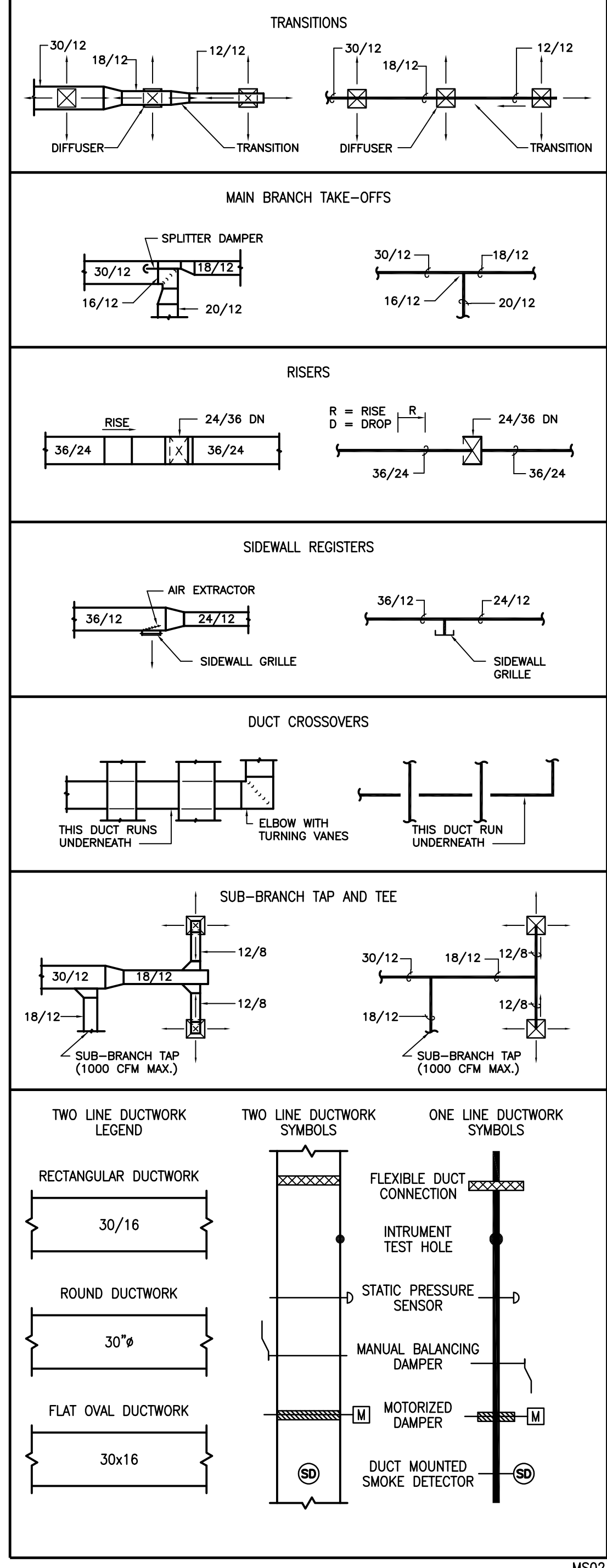
DUCTWORK CONSTRUCTION DETAILS



SYMBOL LEGEND

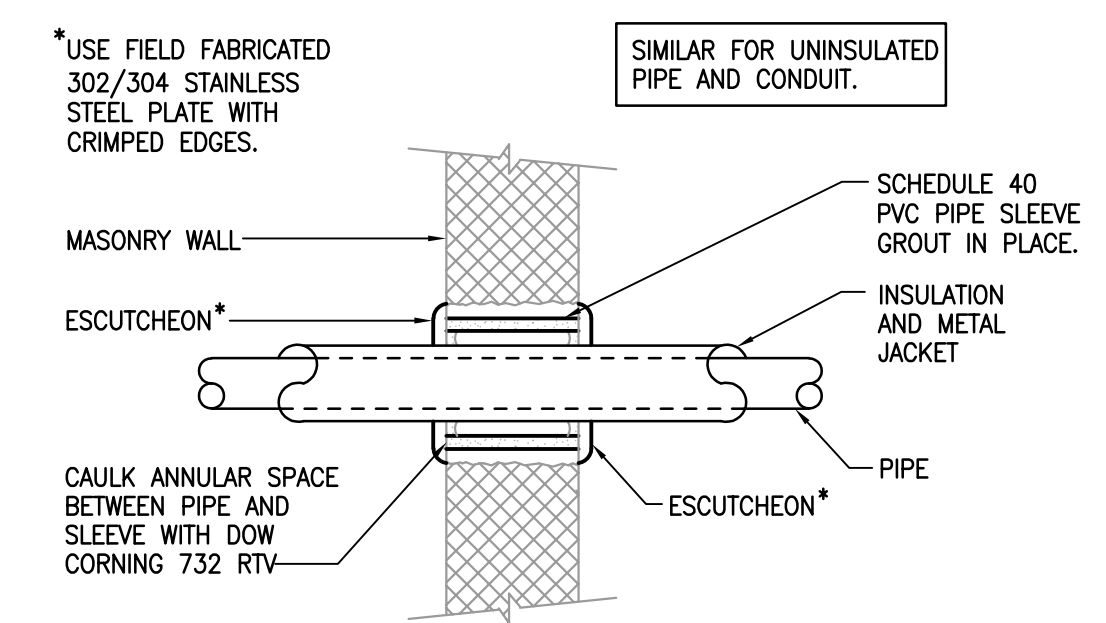
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
AF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BDD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FFM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR

DUCTWORK SYMBOLS LEGEND



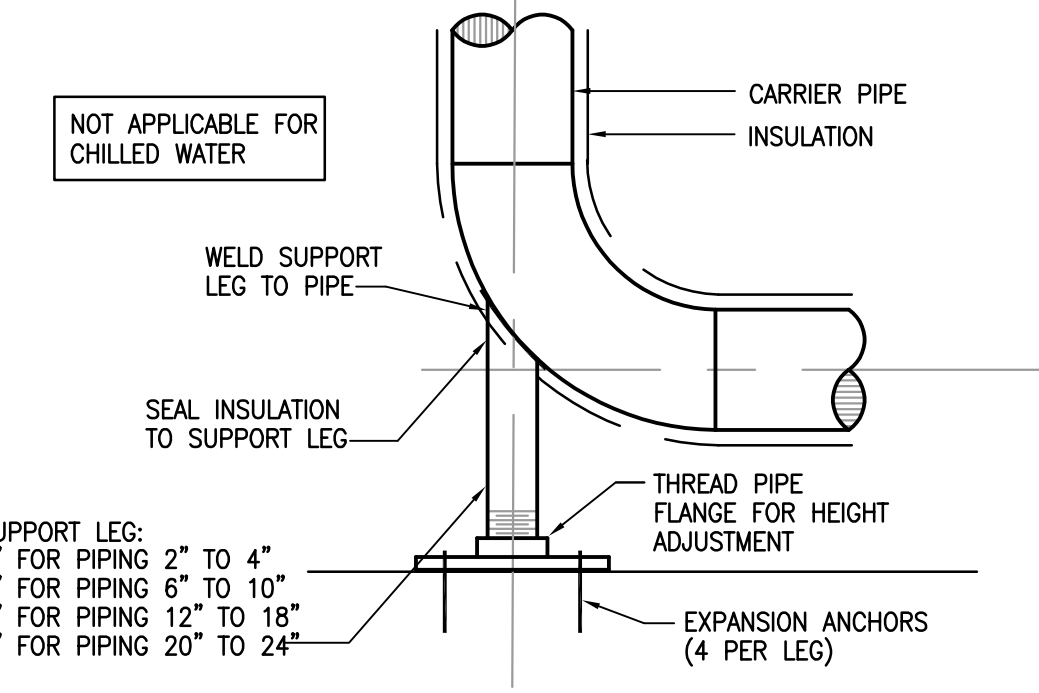
SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
Ⓜ	KEY NOTE TAG
Ⓝ	NOTE SPECIFIC TO DETAIL TAG
Ⓜ	REVISION TAG
Ⓜ	NEW EQUIPMENT
DUCTWORK	
Ⓜ	SUPPLY AIR DUCTWORK
Ⓜ	RETURN AIR AND OUTSIDE AIR DUCTWORK
Ⓜ	EXHAUST AIR DUCTWORK
Ⓜ	FLEXIBLE DUCTWORK
Ⓜ	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
Ⓜ	RETURN AIR AND OUTSIDE AIR DUCTWORK THROUGH HORIZONTAL PARTITION
Ⓜ	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
Ⓜ	FIRE DAMPER (VERTICAL)
Ⓜ	FIRE DAMPER (HORIZONTAL)
Ⓜ	SMOKE DAMPER (VERTICAL)
Ⓜ	SMOKE DAMPER (HORIZONTAL)
Ⓜ	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
Ⓜ	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
Ⓜ	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
Ⓜ	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
Ⓜ	THERMOSTAT AND TEMPERATURE SENSOR
Ⓜ	HUMIDISTAT
Ⓜ	SMOKE DETECTOR
Ⓜ	HEAT DETECTOR
AIR DEVICES	
Ⓜ	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
Ⓜ	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
Ⓜ	SUPPLY AIR GRILLE WITH THREE-WAY THROW
Ⓜ	SUPPLY AIR GRILLE WITH TWO-WAY THROW
Ⓜ	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
Ⓜ	SUPPLY AIR GRILLE WITH ONE-WAY THROW
Ⓜ	RETURN AIR GRILLE
Ⓜ	RETURN AIR GRILLE WITH SOUND BOOT
Ⓜ	EXHAUST AIR GRILLE
Ⓜ	SUPPLY AIR SIDewall GRILLE
Ⓜ	RETURN AIR SIDewall GRILLE
Ⓜ	RETURN AIR OPENING ABOVE CEILING
PIPING	
Ⓜ	CONDENSER WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
Ⓜ	CONDENSER WATER SUPPLY
Ⓜ	CONDENSER WATER RETURN
Ⓜ	CHILLED WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
Ⓜ	CHILLED WATER SUPPLY
Ⓜ	CHILLED WATER RETURN
Ⓜ	HOT WATER FOR HYDRONIC HEATING & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
Ⓜ	HOT WATER FOR HYDRONIC HEATING SUPPLY
Ⓜ	HOT WATER FOR HYDRONIC HEATING RETURN
Ⓜ	CONDENSATE DRAIN LINE
Ⓜ	AUXILIARY CONDENSATE DRAIN LINE
Ⓜ	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
Ⓜ	REFRIGERANT LIQUID LINE
Ⓜ	REFRIGERANT HOT GAS LINE
Ⓜ	REFRIGERANT SUCTION LINE
Ⓜ	ELBOW UP
Ⓜ	ELBOW DOWN
Ⓜ	90° ELBOW
Ⓜ	45° ELBOW
Ⓜ	TEE
Ⓜ	TEE DOWN
Ⓜ	TEE UP
Ⓜ	TOP BRANCH CONNECTION
Ⓜ	BOTTOM BRANCH CONNECTION
Ⓜ	FLANGE
Ⓜ	CAP
Ⓜ	CONTINUATION
Ⓜ	FLOOR DRAIN (REFER TO PLUMBING DRAWINGS)
Ⓜ	GATE VALVE
Ⓜ	GLOBE VALVE
Ⓜ	CHECK VALVE
Ⓜ	BUTTERFLY VALVE
Ⓜ	BUTTERFLY VALVE WITH OPERATOR
Ⓜ	PLUG VALVE
Ⓜ	TWO-WAY CONTROL VALVE
Ⓜ	THREE-WAY CONTROL VALVE
Ⓜ	PRESSURE REDUCING VALVE
Ⓜ	PRESSURE RELIEF VALVE
Ⓜ	BALL VALVE
Ⓜ	STRAINER



2 PIPE THROUGH EXTERIOR WALL

SCALE: NONE PS007



1 PIPE BELOW SUPPORT LEG

SCALE: NONE PS008

GRILLE SIZING SCHEDULE

STANDARD GRILLE

DESIGNATES GRILLE TYPE (REFERENCE GRILLE SCHEDULE)

DESIGNATES GRILLE NECK SIZE (REFERENCE TABLE BELOW)

A1
100

SIZE OF FLEX OR RIGID DUCT CONNECTING GRILLE TO DUCTWORK

6" Ø

AIR QUANTITY IN CFM TO TRAVERSE GRILLE

ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.

REGISTER OR NONSTANDARD GRILLE

DESIGNATES GRILLE TYPE (REFERENCE GRILLE SCHEDULE)

AIR QUANTITY IN CFM TO TRAVERSE GRILLE

A
300

12" x 10"

12/10

SIZE OF GRILLE NECK

ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

MS01

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 281.664.1900 | Registration No. F-4111
 Project No. 2021-04159-00

Architectural Alliance Incorporated

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 Beaumont, Texas 77701
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 ROYALDUM JONES, AIA
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Bradley Kalman

Professional Engineer
 License No. 80219
 State of Texas
 04-18-2022

WEST BROOK AUXILIARY FIELD HOUSE

Beaumont Independent School District

8750 Phelan Blvd
 Beaumont, TX 77706

ISSUED FOR 100% REVIEW

DATE: 01/12/2022

DESIGN DEVELOPMENT

DATE: ----

BIDS & CONSTRUCTION

DATE: 04/18/2022

REVISION: _____

DATE: _____

REVISION: _____

DATE: _____

REVISION: _____

DATE: _____

DRAWINGS SHEET TITLE

MECHANICAL LEGEND AND DETAIL

SHEET NUMBER

M402

21021

PROJECT NUMBER

100% OUTSIDE AIR UNIT - GAS HEAT																		
MARK	INDOOR AIR FAN				COOLING				GAS HEATING			ELECTRICAL REQUIREMENTS		REMARKS				
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER (GHP)	ENTERING DRY BULB	ENTERING WET BULB	OUTDOOR AMBIENT	MIN. TOTAL CAPACITY (BTUH)	MIN. SENSIBLE CAPACITY (BTUH)	MINIMUM SEER/SEER	NUMBER OF STAGES	ENTERING AIR TEMP. (°F)	MIN. OUTPUT CAPACITY (BTUH)		AGA EFFICIENCY (%)	CURRENT CHARAC.	MCA	MOCP
DOAS-1	3,500	3,500	1.2	2.67	98.0	80.0	98.0	323,500	169,200	-/10.4	MOD.	27.0	112,883	80%	480/3/60	56.6	70.0	1,2,3,4,5,6,7,8,9,10
GENERAL NOTES: 1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN. 2. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY ROOFTOP UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON ROOFTOP UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.														REMARKS: 1. PROVIDE UNIT WITH DISCONNECT SWITCH. 2. PROVIDE PAD MOUNTED UNIT. 3. PROVIDE UNIT WITH MODULATING HOT GAS REHEAT TO DELIVER 70°F LEAVING AIR. 4. PROVIDE UNIT WITH DOUBLE WALL CONSTRUCTION AS SPECIFIED. 5. PROVIDE UNIT WITH VARIABLE SPEED / DIGITAL SCROLL COMPRESSOR. 6. PROVIDE UNIT WITH DDC SPACE AND HUMIDITY SENSOR. 7. PROVIDE UNIT WITH FRONT DISCHARGE. 8. PROVIDE UNIT WITH REMOTE TOUCH SCREEN USER INTERFACE. 9. PROVIDE UNIT WITH MODULATING HOT GAS HEAT. 10. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL COSTS IF ALTERNATE UNIT IS PROVIDED WITH GREATER ELECTRICAL CHARACTERISTICS THEN SHOWN.				

FAN															
MARK	LOCATION	CFM	MAXIMUM RPM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.	LOCALLY SWITCHED BY	INTERLOCKED WITH	FAN TYPE	BELT/DIRECT DRIVE	MANUFACTURER	MODEL NUMBER	REMARKS		
EF-1	LOCKERS 106	1,800	1,593	0.5	1/2	120/1/60	-	AHU-1	INLINE	BELT	COOK	SQNB	1,2,3,4		
EF-2	LOCKERS 126	815	1,030	0.4	1/4	120/1/60	-	AHU-4	INLINE	BELT	COOK	SQNB	1,2,3,4		
EF-3	121 126	350	1,314	0.3	1/4	120/1/60	-	AHU-3	INLINE	BELT	COOK	SQNB	1,2,3,4		
GENERAL NOTES: 1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN. 2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC. 3. FAN SHALL BE CENTRIFUGAL, BELT DRIVEN TYPE UNLESS OTHERWISE SCHEDULED.														REMARKS: 1. REFER MANUFACTURER FOR INSTALLATION INSTRUCTIONS. 2. PROVIDE WITH DISCONNECT SWITCH. 3. SUSPEND UNIT WITH FOUR HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE INFORMATION. 4. PROVIDE WITH MOTORIZED DAMPER.	

DAMPER						
MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #639 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS
NOTES: N/A - NOT APPLICABLE						

GRILLE								
MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	REMARKS
A	SUPPLY AIR	DIFFUSER	-	ALUMINUM	-	TITUS	OMNI	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24" X 24" FACE. (1) OR 12" X 12" FACE. (1)
B	RETURN AIR	DIFFUSER	-	ALUMINUM	-	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24" X 24" FACE. (1) OR 12" X 12" FACE. (1)
C	SUPPLY AIR	DIFFUSER	-	ALUMINUM	-	TITUS	OMNI	SURFACE MOUNTED FRAME STYLE WITH A 24" X 24" FACE. (1) OR 12" X 12" FACE. (1)
D	RETURN AIR	DIFFUSER	-	ALUMINUM	-	TITUS	PAR	SURFACE MOUNTED FRAME STYLE WITH A 24" X 24" FACE. (1) OR 12" X 12" FACE. (1)
E	SUPPLY AIR	GRILLE	-	ALUMINUM	-	TITUS	300RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED. (1)
F	RETURN AIR	GRILLE	-	ALUMINUM	-	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED. (1)
GENERAL NOTES: 1. DAMPERS NOTED AS U. L. SHALL BE A "U. L." CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET. 2. AIR DEVICE COLOR SHALL BE SELECTED BY ARCHITECT.								REMARKS: 1. COORDINATE FINAL AIR DEVICE LOCATIONS WITH ARCHITECT.

DUCTLESS MINI SPLIT DX UNIT																	
MARK	FAN				COOLING				HEATING					REMARKS			
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	V/PH/Hz	ENTERING DRY BULB	ENTERING WET BULB	MIN. TOTAL CAPACITY (BTUH)	MIN. SENSIBLE CAPACITY (BTUH)	MINIMUM SEER/SEER	NUMBER OF STAGES	ENTERING AIR TEMP. (°F)	MINIMUM CAPACITY (BTUH)		KW	NUMBER OF STAGES	CURRENT CHARAC.
DMS-1	370	0	0.1	40W	208/1/60	75.0	62.0	18,000	14,400	-/15.0	1					NO HEATING	1,2,3
GENERAL NOTES: 1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.														REMARKS: 1. CONTROLLED BY WIRED PROGRAMMABLE THERMOSTAT. 2. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS. 3. HIGH WALL UNIT.			

DX AIR HANDLING UNIT - WITH HOT WATER HEATING																	
MARK	FAN				COOLING				HEATING					PIPE SIZE (IN.)	REMARKS		
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	ENTERING DRY BULB	ENTERING WET BULB	MIN. TOTAL CAPACITY (BTUH)	MIN. SENSIBLE CAPACITY (BTUH)	MINIMUM SEER/SEER	NUMBER OF STAGES	ENTERING AIR TEMP. (°F)	MINIMUM CAPACITY (BTUH)	ENTERING TEMP. (°F)			GPM	MAX. PRESSURE DROP (FT.)
AHU-1	3,500	1,900	1.0	5	75.0	62.5	89,775	77,112	11.2/-	2	62.8	122,388	160	12.2	10.0	1-1/4	1-10
AHU-2	1,375	350	0.8	2	75.0	62.5	35,269	30,294	12.2/14.0	2	67.7	40,769	160	4.1	10.0	1	1-10
AHU-3	1,610	400	0.8	2	75.0	62.5	37,449	32,167	12.2/14.0	2	67.3	43,812	160	4.4	10.0	1	1-10
AHU-4	2,150	850	0.8	3	75.0	62.5	51,600	44,064	11.7/14.0	2	64.8	65,588	160	6.6	10.0	1-1/4	1-10
GENERAL NOTES: 1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN. 2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.														REMARKS: 1. PROVIDE VERTICAL FLOOR MOUNTED UNIT. 2. LOW VELOCITY FLAT FILTER SECTION. 3. PROVIDE WITH AUTOMATIC SHUT OFF FLOAT SWITCH TO DEACTIVATE UNIT IN EVENT PRIMARY DRAIN LINE BECOMES RESTRICTED. 4. VERTICAL DRAW THRU UNIT. 5. CONSTANT VOLUME UNIT. 6. HOT WATER COIL IN REHEAT POSITION. 7. LOW VELOCITY ANGLED FILTER SECTION. 8. PROVIDE UNIT WITH HUMIDITY CONTROL. 9. THREE-WAY HOT WATER CONTROL VALVE. 10. PROVIDE WITH DIRECT DRIVE PLENUM FAN WITH VARIABLE FREQUENCY DRIVE.			

BOILER - FORCED AIR											
MARK	TYPE	MINIMUM GAS INPUT (MBH)	MINIMUM HEATING OUTPUT (MBH)	MAXIMUM WATER PRESSURE DROP (FT.)	GPM	FLUE SIZE (IN. Ø)	ELECTRICAL		MANUFACTURER	MODEL	REMARKS
							BLOWER FLA (AMP)	ELECTRICAL CHARG. (V/Ø/Hz)			
B-1	NON-CONDENSING	500	425	10.0	75.0	7	8.8	120/1/60	LOCHINVAR	POWER FIN	1-2
GENERAL NOTES: 1. PROVIDE 8 OUNCE GAS PRESSURE TO BOILER. 2. MAINTAIN MINIMUM CLEARANCE AROUND A BOILER OF 24 INCHES PER TEXAS BOILER LAW. MAINTAIN MINIMUM CLEARANCES FOR TUBE PULL AND CLEANING OF TUBES AS RECOMMENDED BY THE BOILER'S MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC.											REMARKS: 1. PROVIDE NON-CONDENSING BOILER. 2. PROVIDE OUTDOOR BOILER.

PUMP											
MARK	SERVICE	TYPE	GPM	HEAD (FT.)	MAXIMUM RPM	MOTOR HORSEPOWER	CURRENT	MANUFACTURER	MODEL	REMARKS	
HWP-1	HEATING HOT WATER	VERTICAL INLINE	75.0	70.0	1,750	5	480/3/60	BELL & GOSSETT	E-80SC	1,2,3	
GENERAL NOTES: 1. PUMP IS TO HAVE A NON-OVERLOADING MOTOR. 2. MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND INSPECTION.											REMARKS: 1. PROVIDE SUCTION DIFFUSER WITH GAUGE TAPS AT PUMP INLET. 2. PROVIDE WITH VARIABLE FREQUENCY DRIVE. 3. PROVIDE PUMP WITH GAUGE TAPS.

AIR COOLED CONDENSING UNIT									
MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM SEER	NUMBER OF STAGES	RELATED UNIT MARK	CURRENT CHARAC.	MCA	MOCP	REMARKS
DXCU-1	89,775	95.0	11.2/-	2	AHU-1	480/3/60	16	30	1,2
DXCU-2	35,269	95.0	12.2/14.0	2	AHU-2	480/3/60	7.6	15	1,2
DXCU-3	37,449	95.0	12.2/14.0	2	AHU-3	480/3/60	7.6	15	1,2
DXCU-4	51,600	95.0	11.7/14.0	2	AHU-4	480/3/60	9.7	15	1,2
DMSCU-1	17,100	95.0	-/15.0	1	DMS-1	208/1/60	12	20	1,2
GENERAL NOTES: 1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.									
REMARKS: 1. PROVIDE WITH LOW AMBIENT. 2. PROVIDE WITH DISCONNECT SWITCH.									

UNIT HEATER - ELECTRIC								
MARK	MINIMUM CAPACITY (BTUH)	KW	STAGES	CURRENT CHARAC.	CFM	MANUFACTURER	MODEL	REMARKS
EUH-1	10,240	3.0	2	277/1/60	310	REZTOR	EGEB	1,2
REMARKS: 1. PROVIDE WITH PENDENT MOUNTED THERMOSTAT 2. PROVIDE WITH DISCONNECT SWITCH.								

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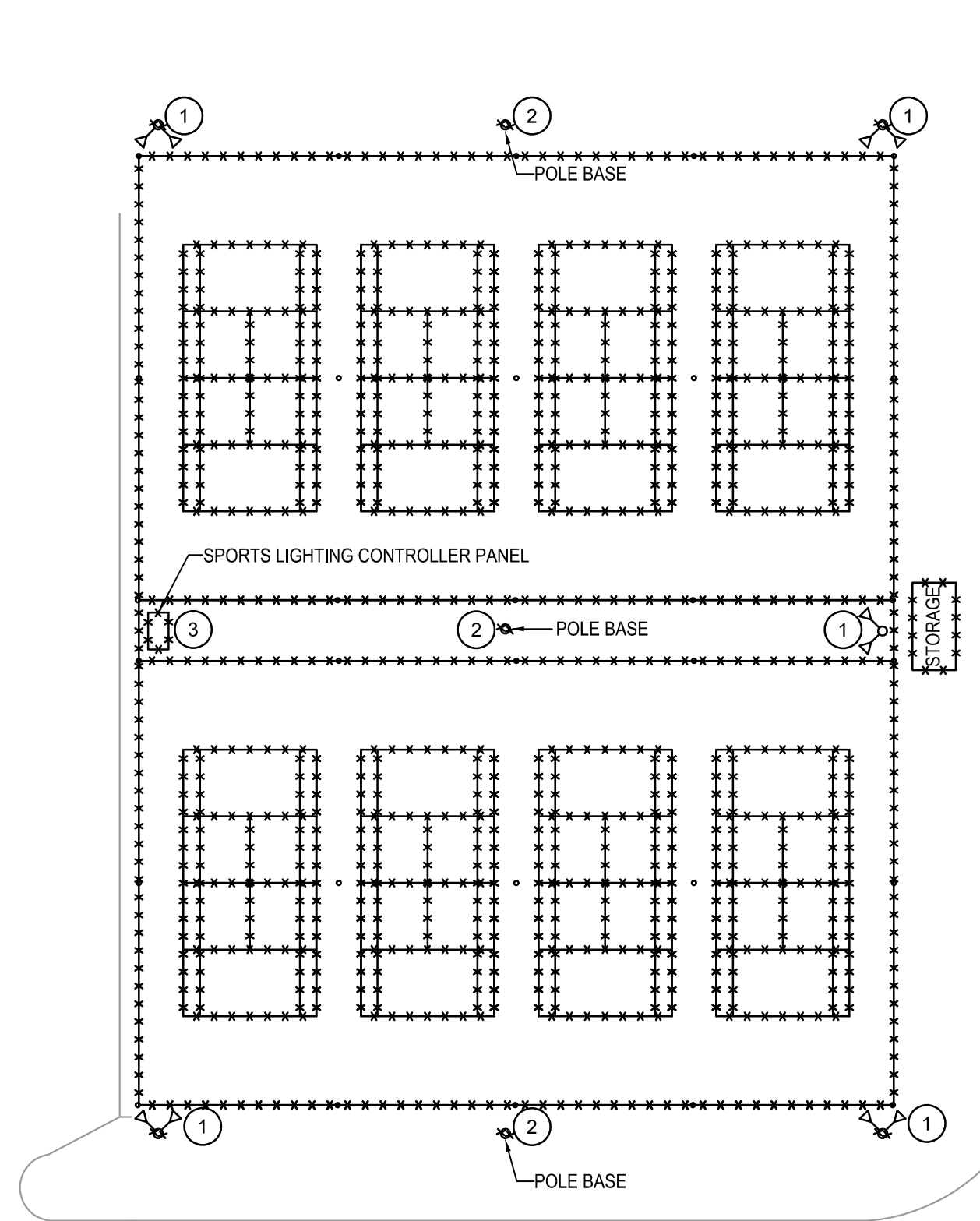
Architectural Alliance Incorporated
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Bradley Kalmanis
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 BRADLEY KALMANIS
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 LICENSED ARCHITECT
 TEXAS
 04-18-2022

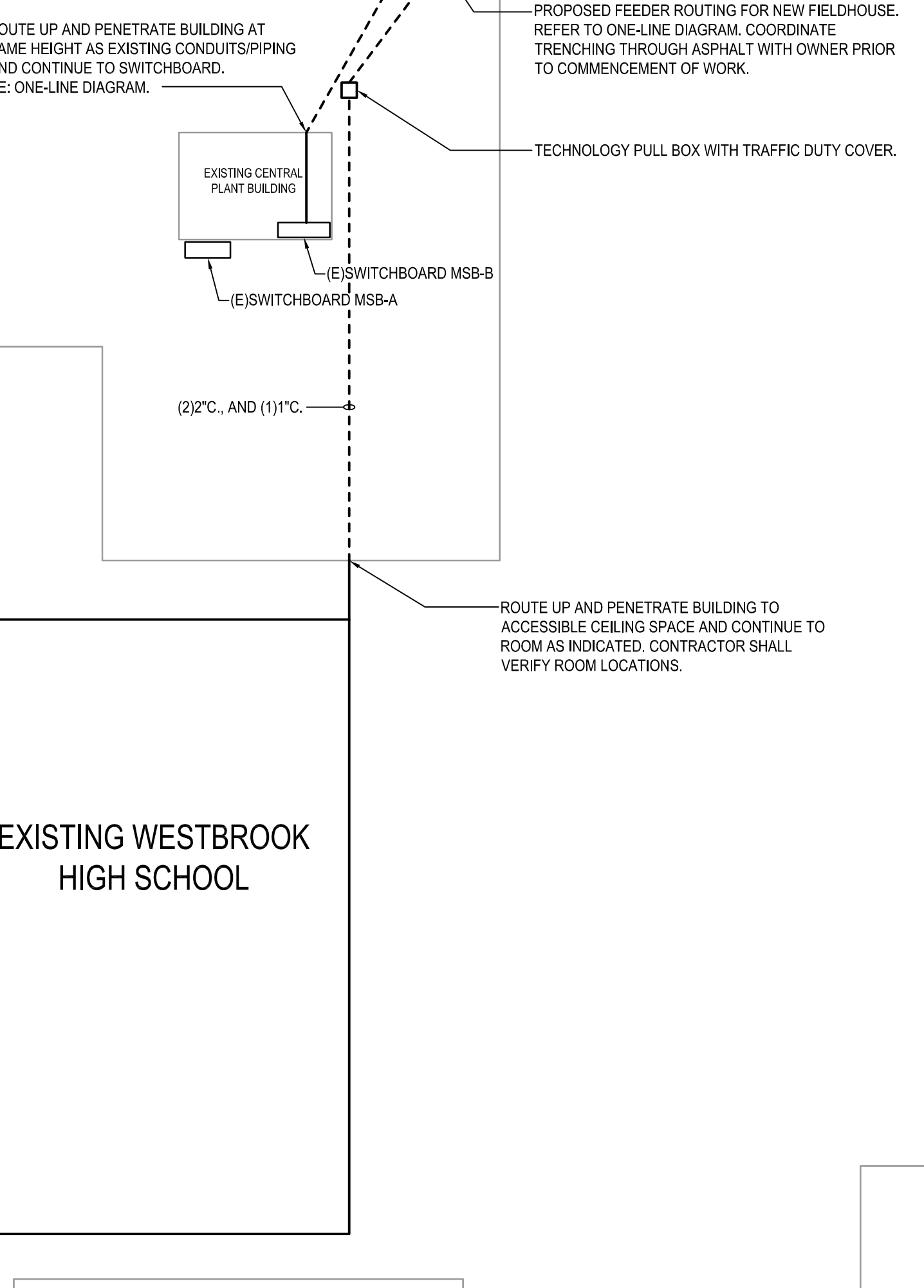
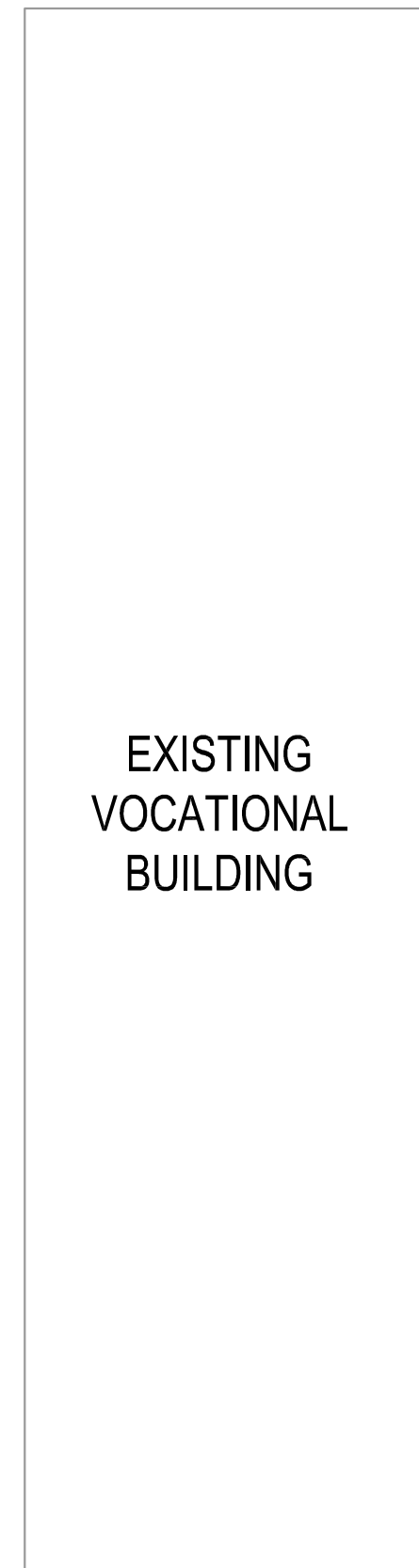
WEST BROOK AUXILIARY FIELD HOUSE
 Beaumont Independent School District
 Beaumont, TX 77706
 8750 Phelan Blvd

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 DATE: _____

DRAWINGS SHEET TITLE
MECHANICAL SCHEDULES
 SHEET NUMBER
M501
 21021
 PROJECT NUMBER



2 **ELECTRICAL PLAN - TENNIS COURT DEMOLITION**
SCALE: 1" = 40'-0"



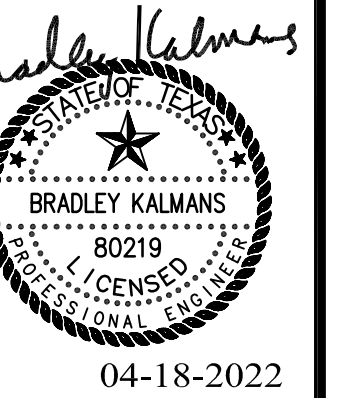
1 **ELECTRICAL SITE PLAN**
SCALE: 1" = 40'-0"

ELECTRICAL GENERAL NOTES:

- REFER TO TECHNOLOGY SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL WORK REQUIRED BY DIVISION 26.
- VERIFY ALL DEMOLITION WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.

ELECTRICAL KEYED NOTES:

- DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE/POLE, POLE BASE, AND ASSOCIATED ELECTRICAL BACK TO SOURCE.
- DISCONNECT AND REMOVE EXISTING POLE BASE, AND ASSOCIATED ELECTRICAL BACK TO SOURCE.
- DISCONNECT AND REMOVE EXISTING SPORTS LIGHTING CONTROL CABINET AND ALL ASSOCIATED ELECTRICAL BACK TO SOURCE.
- DISCONNECT AND REMOVE ALL ELECTRICAL IN ITS ENTIRETY FROM EXISTING STORAGE BUILDING. REMOVE BACK TO SOURCE.



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REVISION:		
DATE:		
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REVISION:		
DATE:		

DRAWINGS SHEET TITLE
ELECTRICAL SITE PLAN

SHEET NUMBER
E101
21021
PROJECT NUMBER

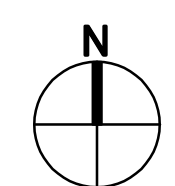
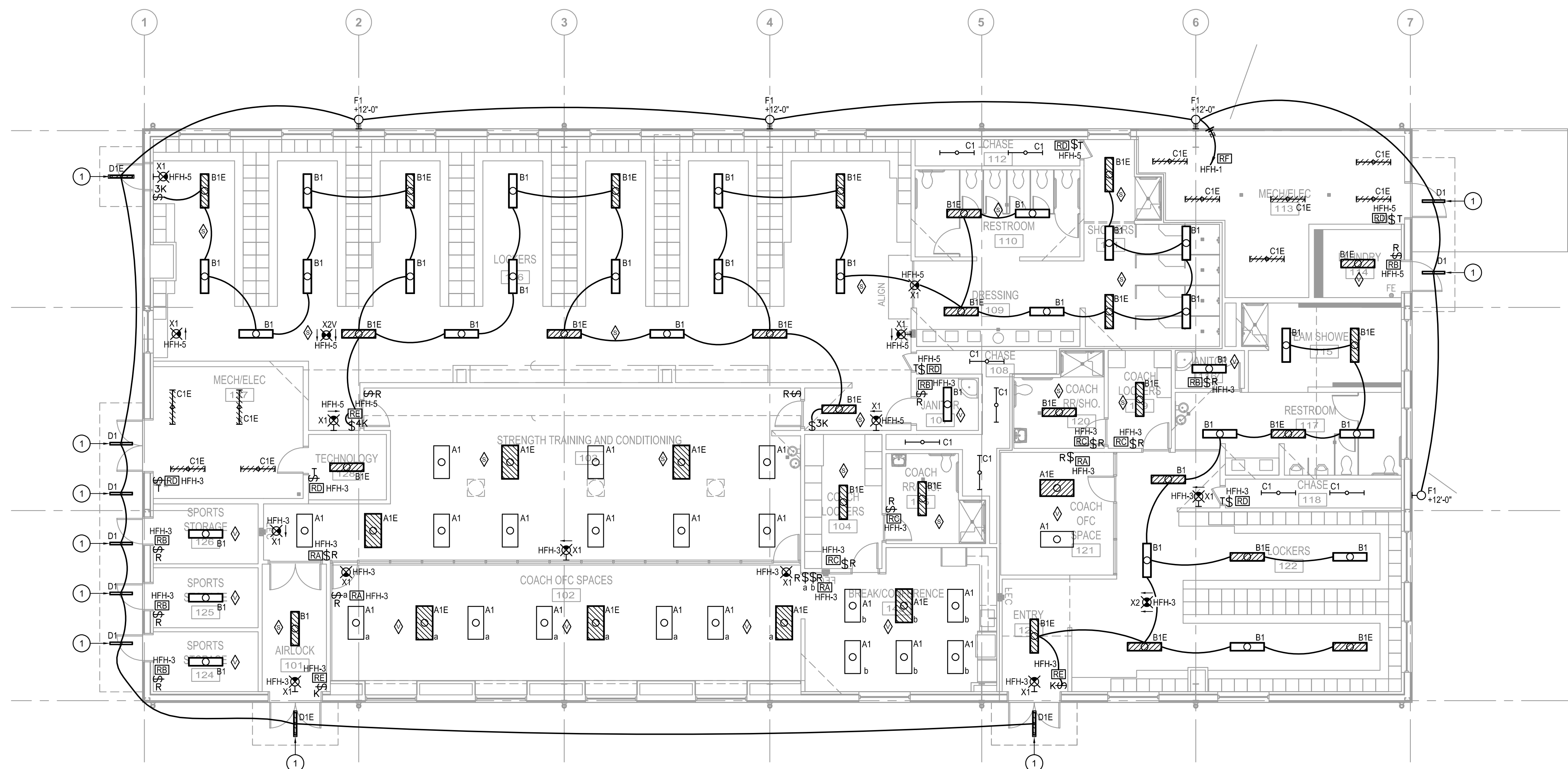


ELECTRICAL GENERAL NOTES:

1. PROVIDE A CONSTANT HOT FROM THE LINE SIDE OF SWITCH SERVING SPACE FOR EXIT LIGHTS (I.E. EXIT SIGNS, BATTERY PACKS, INVERTER, ETC.)
2. ALL LIGHT FIXTURES IN MECHANICAL AREAS SHALL BE COORDINATED WITH MECHANICAL, PLUMBING, AND TECHNOLOGY EQUIPMENT TO AVOID CONFLICTS. LOCATE LIGHT FIXTURES ON CHAIN FROM STRUCTURE OR MOUNTED ON PERIMETER WALLS WHERE PRACTICAL. NOTIFY ENGINEER OF ANY CONFLICTS.

ELECTRICAL KEYED NOTES:

- 1 MOUNT IN UPPER CAVITY OF CORRUGATED CANOPY WITH WATER-TIGHT SEALS AND STAINLESS STEEL MOUNTING HARDWARE. CONCEAL CONDUITS AS MUCH AS POSSIBLE.



1 ELECTRICAL LIGHTING FLOOR PLAN

SCALE: 1/8" = 1'-0"

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 Project No. 2021-04159-00

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Beaumont Independent School District

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Beaumont, TX 77706

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BIDS & CONSTRUCTION	<input checked="" type="checkbox"/>
DATE: 04/18/2022	
REVISION:	
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REVISION:	
DATE:	
REVISION:	
DATE:	

DRAWINGS SHEET TITLE
ELECTRICAL LIGHTING FLOOR PLAN

SHEET NUMBER
E201
 21021
 PROJECT NUMBER

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Bradley Kalmans

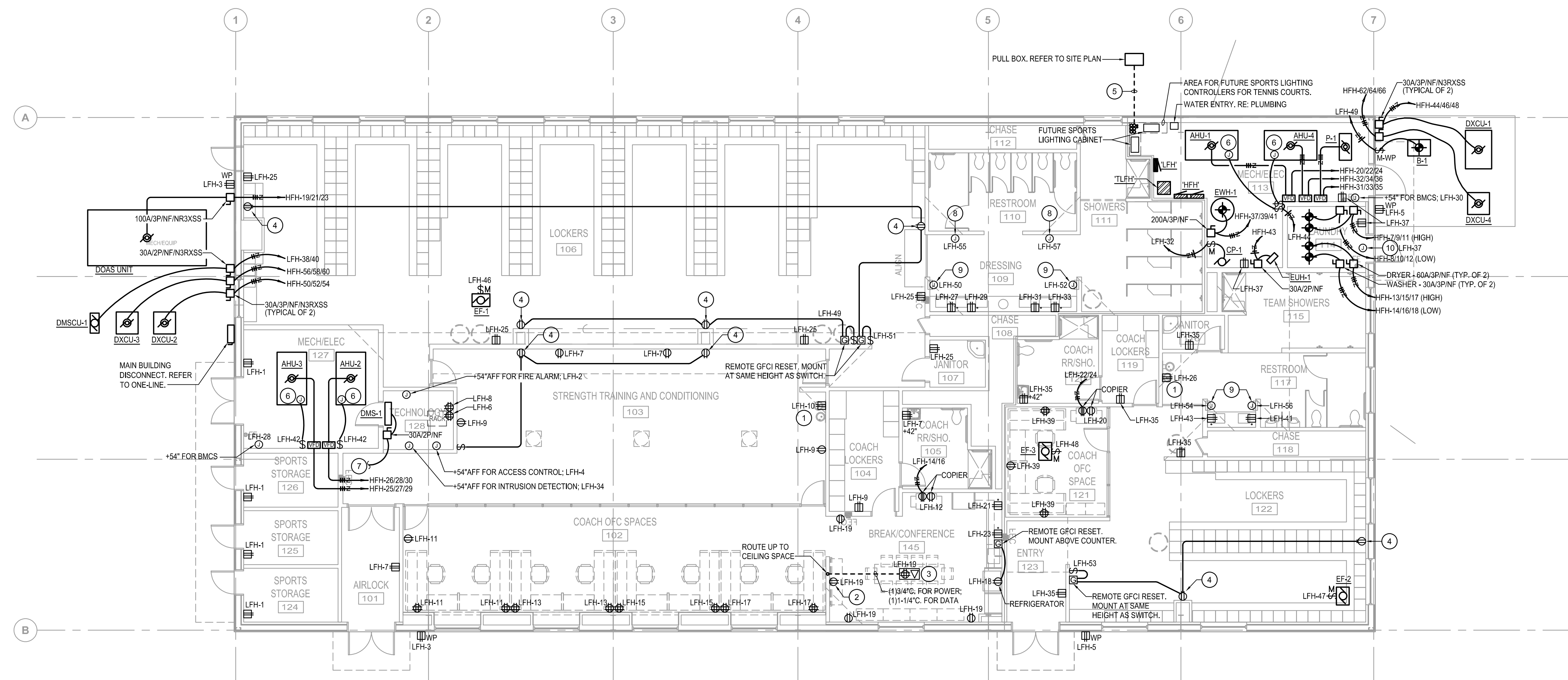
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ELECTRICAL GENERAL NOTES:

- REFER TO TECHNOLOGY SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL WORK REQUIRED BY DIVISION 26.
- PROVIDE (1)3/4" C. FROM EACH OUTDOOR MECHANICAL UNIT TO NEAREST MECHANICAL ROOM FOR CONTROLS WIRING. (I.E DXCU, DOAS, B-1, P-2, ETC.)

ELECTRICAL KEYED NOTES:

- RECEPTACLE FOR DRINKING FOUNTAIN. LOCATE RECEPTACLE BELOW CONFINES OF DRINKING FOUNTAIN.
- RECEPTACLE FOR WALL MOUNTED DISPLAY. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH CAPACITY FOR WIRING DEVICES AND TECHNOLOGY DEVICES. COORDINATE EXACT BOX LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. REFER TO TECHNOLOGY SERIES DRAWINGS FOR CABLE QUANTITY.
- RECEPTACLE FOR OSCILLATING FAN. MOUNT +12" BELOW FINISHED CEILING AND CONTROL VIA SWITCH. PROVIDE SWITCH WITH LABEL TO INDICATE FUNCTION AND LOCATE AS DIRECTED BY OWNER.
- PROVIDE THE FOLLOWING UNDERGROUND CONDUITS:
 (6) 1-1/4" CONDUITS FOR FUTURE SPORTS LIGHTING;
 (2) 1" CONDUITS FOR FUTURE 120-VOLT POWER.
- JUNCTION BOX FOR CONNECTION OF AIR PURIFICATION SYSTEM. COORDINATE EXACT LOCATION AND MAKE FINAL CONNECTION. DMS UNIT IS POWERED FROM OUTDOOR DMSCU. ROUTE 2#12, 1#12G, 3/4" C. FROM INDOOR UNIT TO OUTDOOR UNIT. VERIFY CONNECTIONS WITH MANUFACTURE AND MAKE FINAL CONNECTION.
- PROVIDE JUNCTION BOX FOR CONNECTION OF WALL MOUNTED ELECTRIC HAIR DRYER UNIT. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN AND MAKE FINAL CONNECTION.
- PROVIDE JUNCTION BOX FOR CONNECTION OF WALL MOUNTED ELECTRIC HAND DRYER UNIT. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN AND MAKE FINAL CONNECTION.
- PROVIDE JUNCTION BOX FOR CONNECTION OF MOTORIZED DAMPER. REFER TO MECHANICAL FOR EXACT LOCATION AND MAKE FINAL CONNECTION.



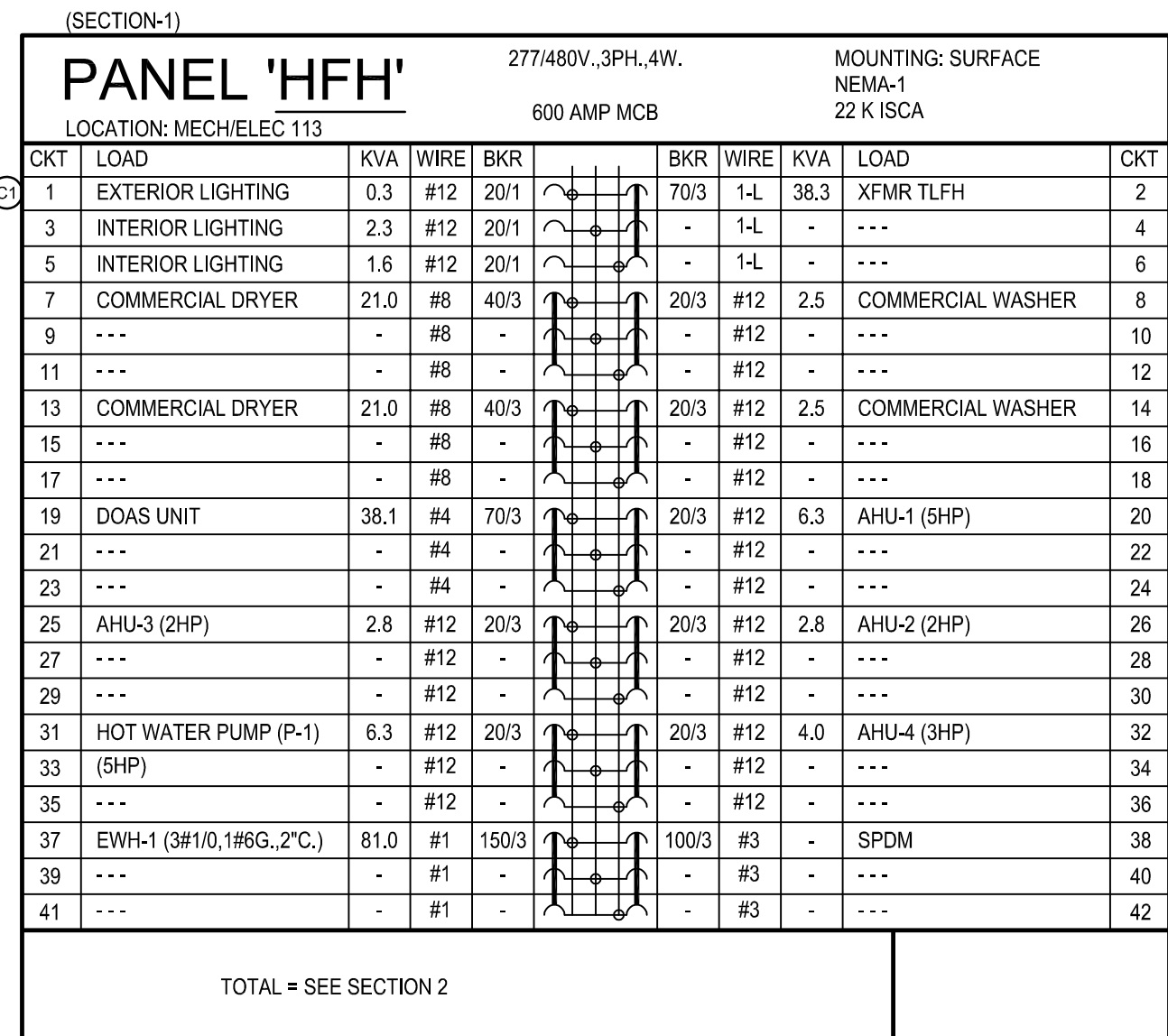
ELECTRICAL POWER FLOOR PLAN
 SCALE: 1/8" = 1'-0"

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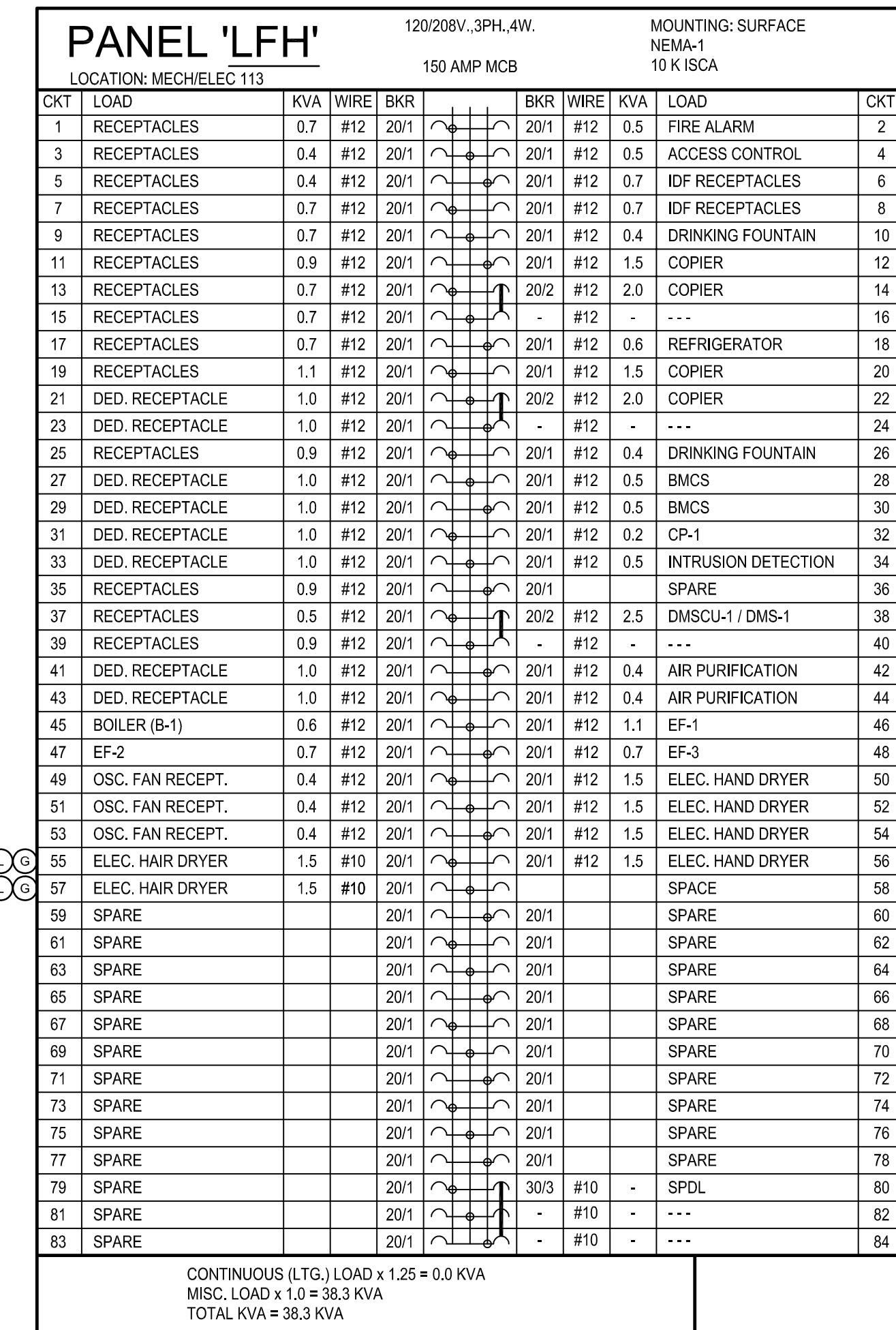
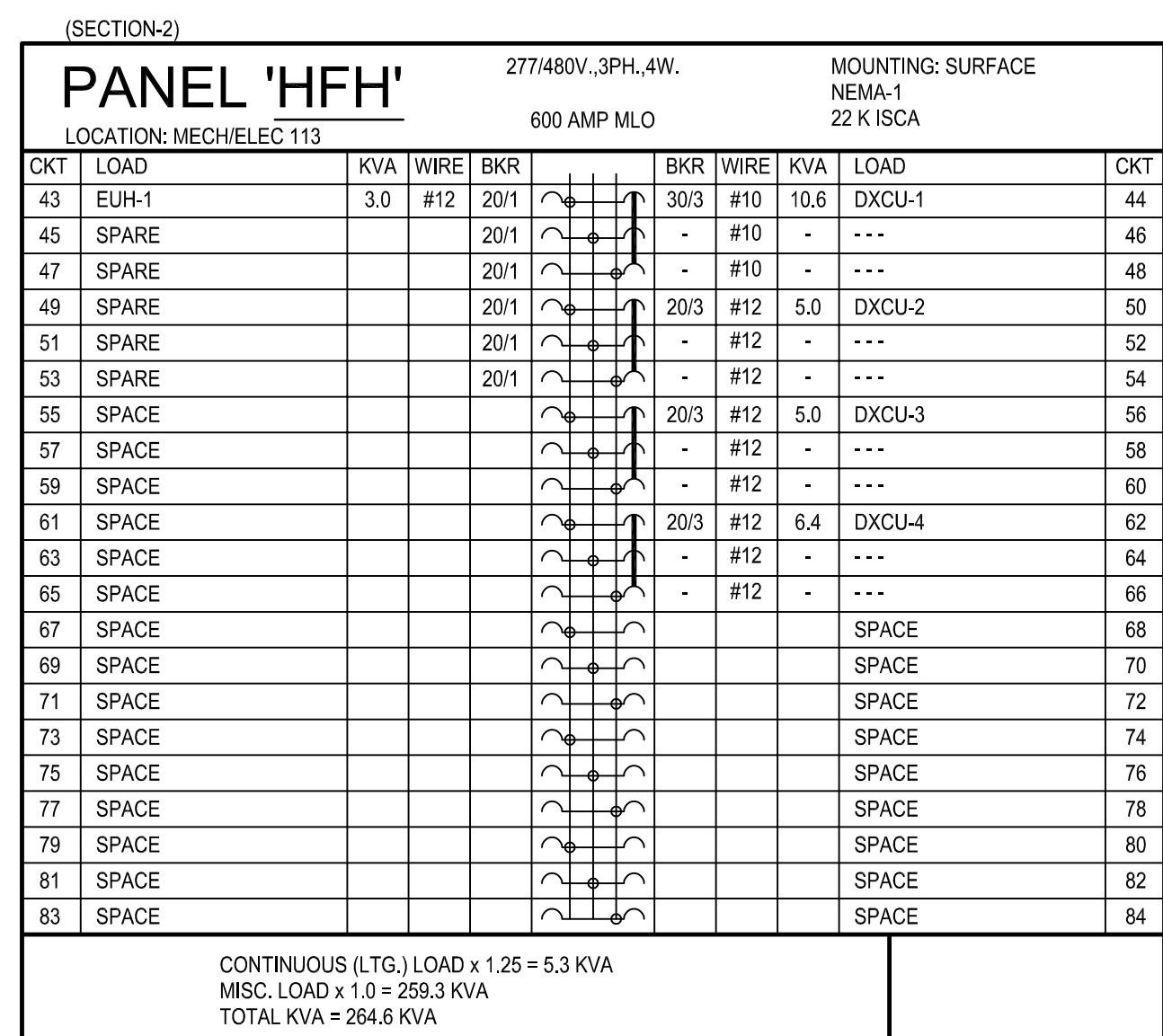
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DRAWINGS SHEET TITLE	
ELECTRICAL POWER FLOOR PLAN	
SHEET NUMBER	E301
PROJECT NUMBER	21021



Ⓢ CIRCUIT CONTROLLED VIA CONTACTOR 'C1' LOCATED ADJACENT TO PANEL. CONTACTOR CONTROLLED VIA BMCS.

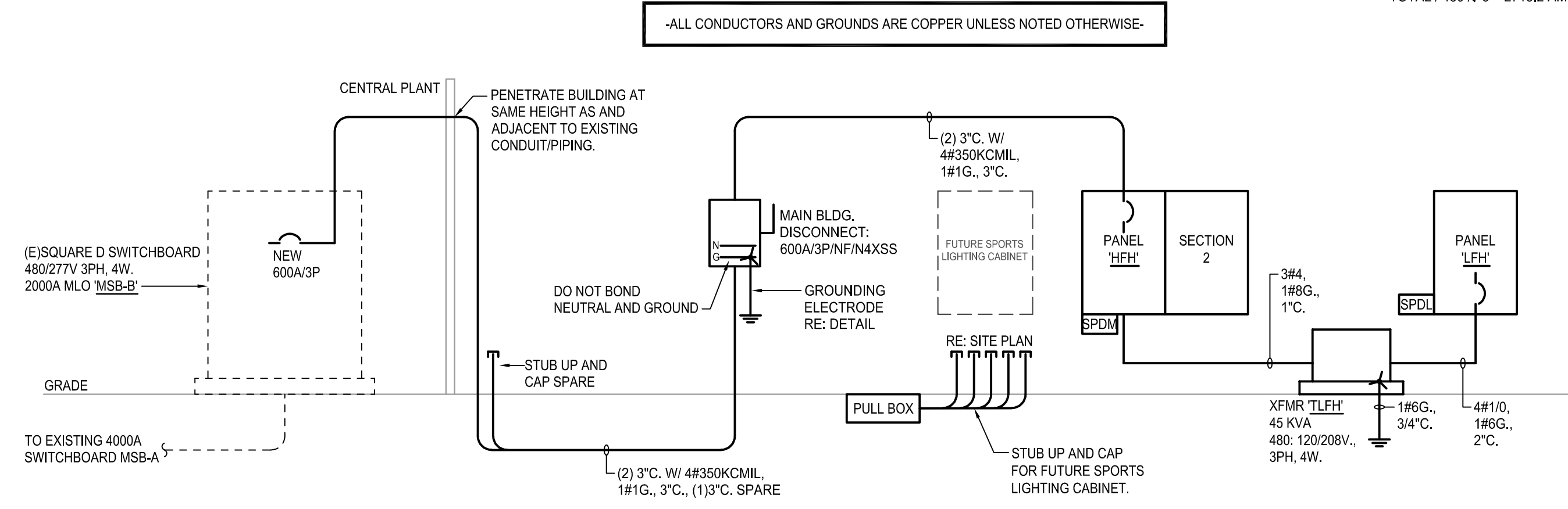


Ⓢ PROVIDE GFCI TYPE CIRCUIT BREAKER, TYPE AS REQUIRED.
Ⓢ PROVIDE WITH LOCK-OFF DEVICE.
Ⓢ PROVIDE WITH LOCK-ON DEVICE.

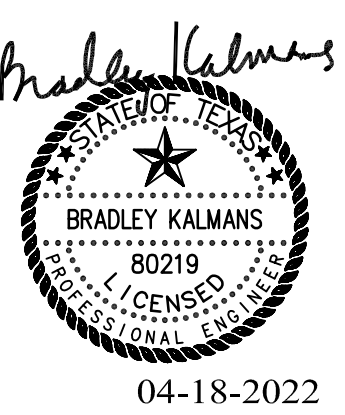
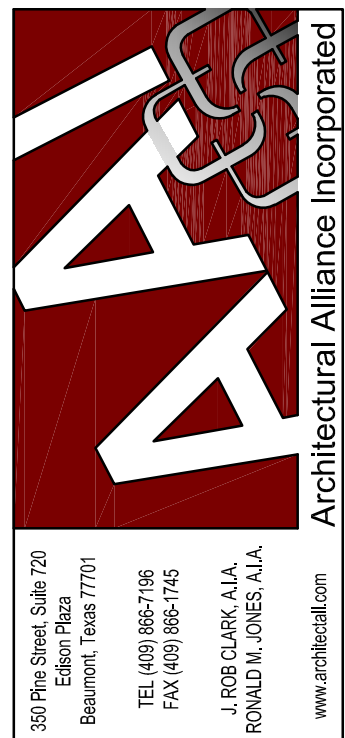
ELECTRICAL LOAD ANALYSIS
480V, 3PH, 4W

PEAK KVA @ 125%	1875.0
LIGHTING - CALC. 9.935 SF x 3W	29.8
LIGHTING (CONNECTED)	(5.3)
RECEPTACLES (CONNECTED)	(10.2)
1ST 10KVA @ 100% (NEC 220-44)	10.0
REMAINDER @ 50% (NEC 220-44)	0.1
MISCELLANEOUS	63.9
HVAC: AHU, VAV, PUMPS, ETC	96.2
ELEC. WATER HEATING @ 125%	101.3
FUTURE LOAD	80.0
TOTAL	2256.3

TOTAL / 480 / √3 = 2715.2 AMPS (EXISTING 4000-AMP SERVICE)



ONE-LINE DIAGRAM
SCALE: NONE



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DRAWINGS SHEET TITLE
ELECTRICAL ONE-LINE AND PANEL SCHEDULES

SHEET NUMBER
E401
PROJECT NUMBER
21021

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Project No. 2021-04159-00

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG NUMBER	MOUNTING	TYPE/LUMENS	KELVIN COLOR	CRI	VOLTS	INPUT WATTAGE	REMARKS
A1	METALUX# 24FP4740C	RECESSED	LED / 4700 LU	4000K	80+	UNV	42W	2X4 FLAT PANEL, OPAQUE LENS, 0-10V DIMMING, DLC LISTED.
A1E	METALUX# 24FP4740C + EL14W	RECESSED	LED / 4700 LU	4000K	80+	UNV	42W	2X4 FLAT PANEL, OPAQUE LENS, 0-10V DIMMING, DLC LISTED. PROVIDE WITH 90-MIN EM BATTERY.
B1	METALUX# 14FP4240C + DF14WU	RECESSED	LED / 4200 LU	4000K	80+	UNV	39W	1X4 FLAT PANEL, OPAQUE LENS, 0-10V DIMMING, DLC LISTED. PROVIDE WITH DRYWALL KIT.
B1E	METALUX# 14FP4240C + DF14WU + EL14W	RECESSED	LED / 4200 LU	4000K	80+	UNV	39W	1X4 FLAT PANEL, OPAQUE LENS, 0-10V DIMMING, DLC LISTED. PROVIDE WITH DRYWALL KIT AND 90-MIN EM BATTERY.
C1	METALUX# 4SNLED-LD5-37SL-LW-UNV-CD1-U + AYC-CHAIN/SET	SURFACE/CHAIN	LED / 3800 LU	4000K	80+	UNV	31W	4-FOOT STRIP LIGHT, FROSTED LENS, WIRE GUARD, CHAIN HANG KIT, DLC LISTED.
C1E	METALUX# 4SNLED-LD5-37SL-LW-UNV-CD1-U + EL14W + AYC-CHAIN/SET	SURFACE/CHAIN	LED / 3800 LU	4000K	80+	UNV	31W	4-FOOT STRIP LIGHT, FROSTED LENS, WIRE GUARD, CHAIN HANG KIT, DLC LISTED. PROVIDE WITH 90-MIN EM BATTERY.
D1	ALW# LP3.5SMBWL-S3-LOW-0/10V/S-EXT/F-AL-UNV	SURFACE/CANOPY	LED / 600 LU/FT	4000K	80+	UNV	15W	3-FOOT EXTRUDED ALUMINUM, END FEED, WET LOCATION, LOW PROFILE, DIFFUSE LENS.
D1E	ALW# LP3.5SMBWL-S3-LOW-0/10V/S-EXT/F-AL-UNV + EMBY1	SURFACE/CANOPY	LED / 600 LU/FT	4000K	80+	UNV	15W	3-FOOT EXTRUDED ALUMINUM, END FEED, WET LOCATION, LOW PROFILE, DIFFUSE LENS. PROVIDE WITH 90-MIN EM BATTERY.
F1	MCGRW EDISON# 1S1-AF-1000-LED-E1-T4FT-BZ-LCF	WALL	LED / 6274 LU	4000K	70+	UNV	55W	ARCHITECTURAL WALLPACK, FORWARD THROW DISTRIBUTION, BRONZE FINISH, DLC LISTED. TRIM PLATE SHALL MATCH HOUSING COLOR.
X1	SURE-LITES# UX7-1-WH-SD	UNIVERSAL	LED	-	-	UNV	< 5W	SINGLE-FACED VANDAL RESISTANT EXIT SIGN, WHITE HOUSING, RED LETTERING, 90-MIN EM BATTERY. PROVIDE WITH CHEVRON DIRECTIONAL ARROWS PER PLANS OR BY AHJ.
X2	SURE-LITES# UX7-2-WH-SD	UNIVERSAL	LED	-	-	UNV	< 5W	DOUBLE-FACED VANDAL RESISTANT EXIT SIGN, WHITE HOUSING, RED LETTERING, 90-MIN EM BATTERY. PROVIDE WITH CHEVRON DIRECTIONAL ARROWS PER PLANS OR BY AHJ.

**REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURER LIST.

NOTES:

EMERGENCY BATTERY BACK-UP, WHEN SPECIFIED, SHALL ENERGIZE FIXTURE FOR A MINIMUM OF 90-MINUTES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHT FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHT SCHEDULE AND THE SPECIFICATIONS, THE BETTER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.

LIGHT FIXTURE APPROVAL WILL BE DETERMINED AFTER REVIEW OF SHOP DRAWING TO DETERMINE IF THE FIXTURE OR POLE SUBMITTED MEETS OR EXCEEDS THE DESIGN STANDARDS AND PERFORMANCE REQUIRED OF THE FIXTURE SPECIFIED IN THE LIGHT FIXTURE SCHEDULE OR SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIFIED LIGHT FIXTURE IF A SUBSTITUTION IS NOT APPROVED WITHOUT ANY ADDITIONAL COST TO THE OWNER. WHERE SPECIFIC OPTIONS/ACCESSORIES ARE SPECIFIED OR REQUIRED, THEY SHALL BE PROVIDED WITHOUT ANY ADDITIONAL COST TO THE OWNER.

DUE TO THE WIDE RANGE OF FIXTURE QUALITIES OFFERED BY EACH MANUFACTURER, THE APPROVED LIGHTING MANUFACTURERS SUBSTITUTION LIST IS NOT INTENDED TO INDICATE THAT ANY OR ALL MANUFACTURERS LISTED WILL HAVE SUITABLE SUBSTITUTIONS FOR THE LIGHT FIXTURES OR POLES SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. SHOP DRAWING AND CONSTRUCTION DELAYS AS A RESULT OF INAPPROPRIATE SUBSTITUTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT RESULT IN ANY ADDITIONAL COST TO THE OWNER.

LIGHTING CONTROLS SCHEDULE

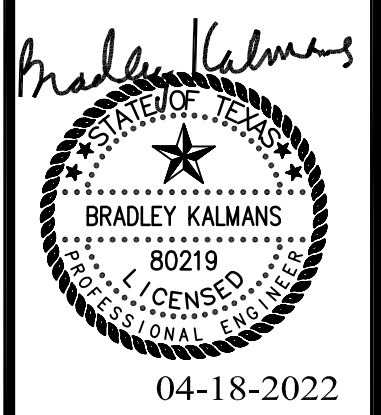
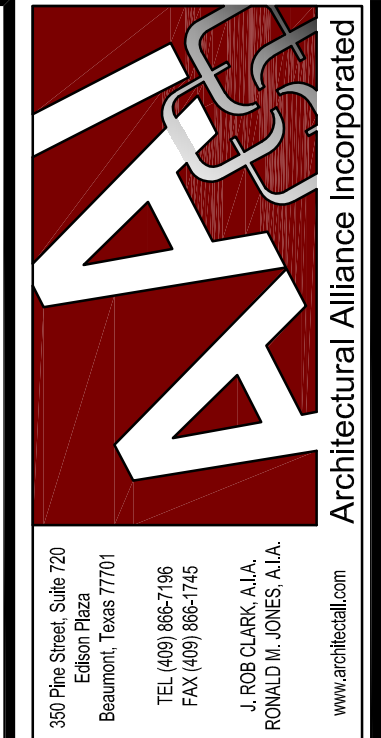
TYPE	SENSOR FUNCTION	# OF ZONES	DESCRIPTION
RA	VACANCY - MANUAL ON / AUTO OFF	1	DIGITAL KEYPAD; ON/OFF SWITCH WITH RAISE LOWER; 0-10V DIMMING.
RB	VACANCY - MANUAL ON / AUTO OFF	1	DIGITAL KEYPAD; ON/OFF SWITCH.
RC	OCCUPANCY - AUTO ON / AUTO OFF	1	DIGITAL KEYPAD; ON/OFF SWITCH. (FULL AUTO IECC EXCEPTION FOR SAFETY/SECURITY)
RD	NONE	1	WATTSTOPPER 12-HOUR TIMER SWITCH WITH VISUAL/AUDIO ALARM.
RE	OCCUPANCY - AUTO ON / AUTO OFF	1	ON/OFF KEYPAD SWITCH. (FULL AUTO IECC EXCEPTION FOR SAFETY/SECURITY)
RF	NONE	1	EXTERIOR LIGHTING, CONTACTOR CONTROLLED VIA BMCS.

ELECTRICAL GENERAL NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES.
- ALL LIGHT FIXTURES IN MECHANICAL AREAS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING EQUIPMENT TO AVOID CONFLICTS. LOCATE LIGHT FIXTURES ON PERIMETER WALLS OF MECHANICAL AREAS WHERE PRACTICAL.
- ALL EMPTY CONDUIT SHALL HAVE PULL STRING.
- EACH CONDUIT SHALL BE LIMITED TO (3) CIRCUITS MAXIMUM.
- VERIFY MOUNTING HEIGHTS OF RECEPTACLES WITH CASEWORK ELEVATIONS PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS FOR LOCATION AND COORDINATION OF ELECTRICAL OUTLETS. AT KNEESPACE LOCATIONS, LOCATE ELECTRICAL OUTLETS WITHIN KNEESPACE, UNLESS NOTED OTHERWISE. AT COUNTERS WITH OUT KNEESPACE, LOCATE OUTLETS HORIZONTALLY 6" ABOVE BACK SPLASH, UNLESS NOTED OTHERWISE.
- ALL FIRE ALARM DEVICES, RECEPTACLES, SWITCHES, AND WIRING DEVICES IN MECHANICAL AND ELECTRICAL ROOMS ARE TO BE RECESSED IN WALLS.
- ALL LIGHTING, RECEPTACLE, AND EQUIPMENT BRANCH CIRCUITS CONDUITS SHALL CONTAIN A GROUND WIRE, USING THE CONDUIT SYSTEM AS THE ONLY GROUND PATH IS NOT ACCEPTABLE.
- CENTER ALL EXIT SIGNS OVER DOORS.
- PROVIDE 120V CIRCUIT FROM NEAREST RECEPTACLE OUTLET TO EACH DX FAN COIL UNIT FOR CONNECTION OF CONDENSATE PUMP.

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE - RECESSED OR SURFACE MOUNTED
	LIGHT FIXTURE - RECESSED OR SURFACE MOUNTED ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT - CEILING MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT - WALL MOUNTED ON EMERGENCY CIRCUIT
LIGHTING CONTROLS & DEVICES	
	LINE VOLTAGE SINGLE POLE SWITCH
	LINE VOLTAGE 3-WAY SWITCH
	LINE VOLTAGE 4-WAY SWITCH
	LINE VOLTAGE MOMENTARY DPST KEYPAD SWITCH
	LINE VOLTAGE DIMMER SWITCH, SIZE AND TYPE AS REQUIRED
	LINE VOLTAGE SWITCH WITH PILOT LIGHT
	6-HOUR ROTARY TIMER SWITCH WITH NO HOLD U.N.O.
	PUSH BUTTON EPO SWITCH WITH COVER
	LOW VOLTAGE MOMENTARY CONTACT SWITCH
	LOW VOLTAGE DIGITAL KEYPAD
	LOW VOLTAGE BUILDING MANAGEMENT (BMCS) LOCAL OVERRIDE SWITCH
	OCCUPANCY SENSOR (AUTO ON / AUTO OFF WITHIN 20-MINUTES)
	VACANCY SENSOR (MANUAL ON / AUTO OFF WITHIN 20-MINUTES)
	PHOTOCELL SENSOR
	LIGHTING CONTROL SYSTEM. ('# DENOTES TYPE - SEE LIGHTING CONTROLS SCHEDULE)
	EMERGENCY LOAD CONTROL RELAY, MINIMUM 16A AND 0-10V COMPATIBLE. PROVIDE U.L. 924 U.N.O.
RECEPTACLES AND OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH DUPLEX RECEPTACLE AND DATA OUTLET. REFER TO TECHNOLOGY SERIES DRAWINGS FOR DATA CABLE QUANTIES.
	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH DOUBLE DUPLEX RECEPTACLE AND DATA OUTLET. REFER TO TECHNOLOGY SERIES DRAWINGS FOR DATA CABLE QUANTIES.
	JUNCTION BOX
	FLUSH REMOTE GFCI DEVICE (LOCATE IN READILY ACCESSIBLE LOCATION)
MOTOR CONTROLLERS AND EQUIPMENT	
	1-PHASE MOTOR, MAKE FINAL MOTOR CONNECTION
	3-PHASE MOTOR, MAKE FINAL MOTOR CONNECTION
	MOTOR-RATED SWITCH, 20A/1P UNLESS INDICATED OTHERWISE.
	DISCONNECT SWITCH AS REQUIRED
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
	MOTOR STARTER
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
	LOW VOLTAGE TRANSFORMER, SIZE AND TYPE AS REQUIRED.
	CHIME/BUZZER
	SURGE PROTECTION DEVICE. "X" = EXPOSURE TYPE: VH - VERY HIGH, H - HIGH, M - MEDIUM, L - LOW
ELECTRICAL EQUIPMENT	
	277/480 VOLT DISTRIBUTION OR PANELBOARD
	120/208 VOLT PANELBOARD
	DRY TYPE TRANSFORMER
	PLYWOOD TELEPHONE BACKBOARD
CIRCUITING	
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
	34°C. UNLESS OTHERWISE NOTED: LONG HATCH, NEUTRAL; SHORT HATCH, PHASE; LONG HATCH & HOOK, INSULATED GROUND. NO HATCHES INDICATES 2 CONDUCTORS. ARROW INDICATES HOMERUN.
	PARTIAL ELECTRICAL HOME RUN
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES 'WEATHERPROOF'
H	INDICATES 'HORIZONTAL'
NL	INDICATES 'NIGHT LIGHT'
TP	INDICATES 'TAMPER PROOF'
(KS)	INDICATES 'KNEE SPACE', LOCATE WIRING DEVICE CENTERED WITHIN KNEESPACE
U.N.O.	INDICATES 'UNLESS NOTED OTHERWISE'
(E)	INDICATES EXISTING TO REMAIN
(R)	INDICATES REPLACE DEVICE AND COVERPLATE
.	NEXT TO ANY SYMBOL, INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES
GENERAL NOTES:	
-ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3RX MINIMUM.	
-ALL EXTERIOR RECEPTACLES SHALL BE WATER RESISTANT TYPE.	



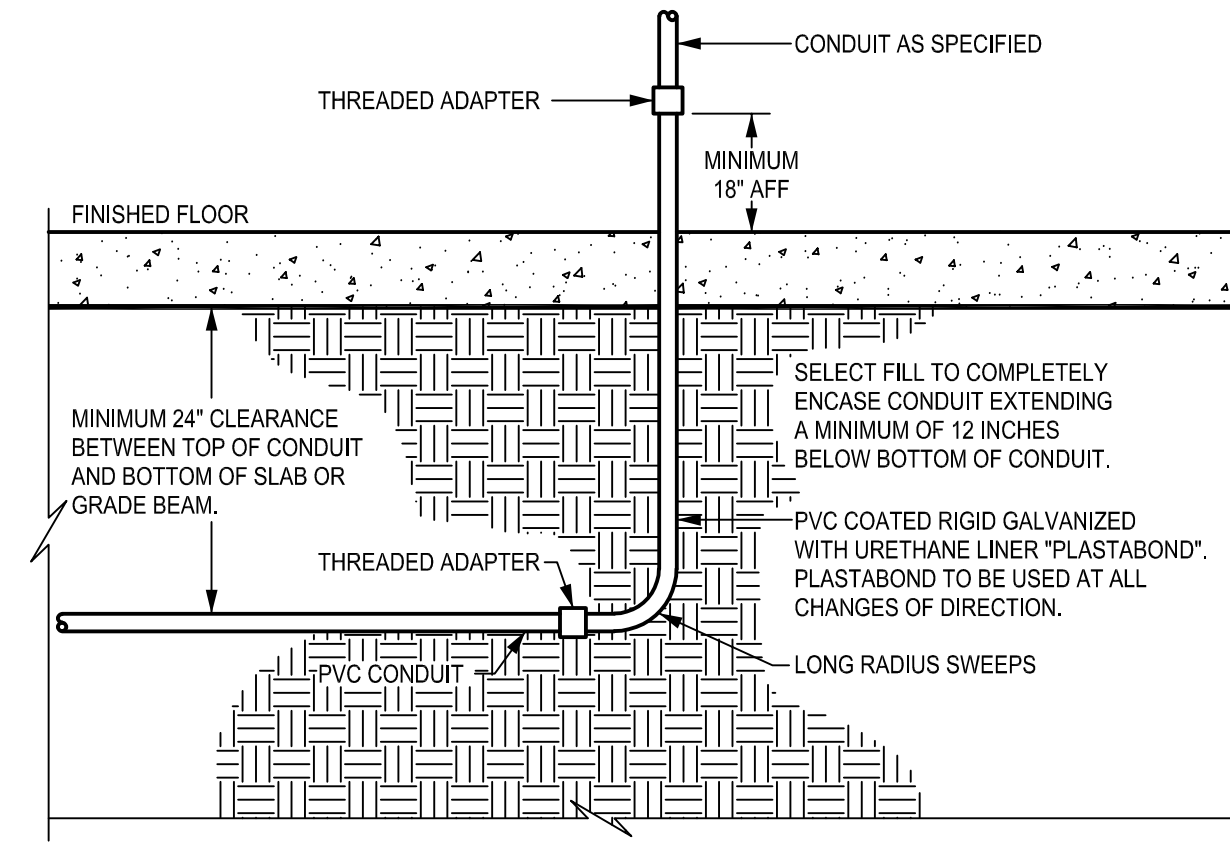
WEST BROOK AUXILIARY FIELD HOUSE
Beaumont Independent School District
8750 Phelan Blvd
Beaumont, TX 77706

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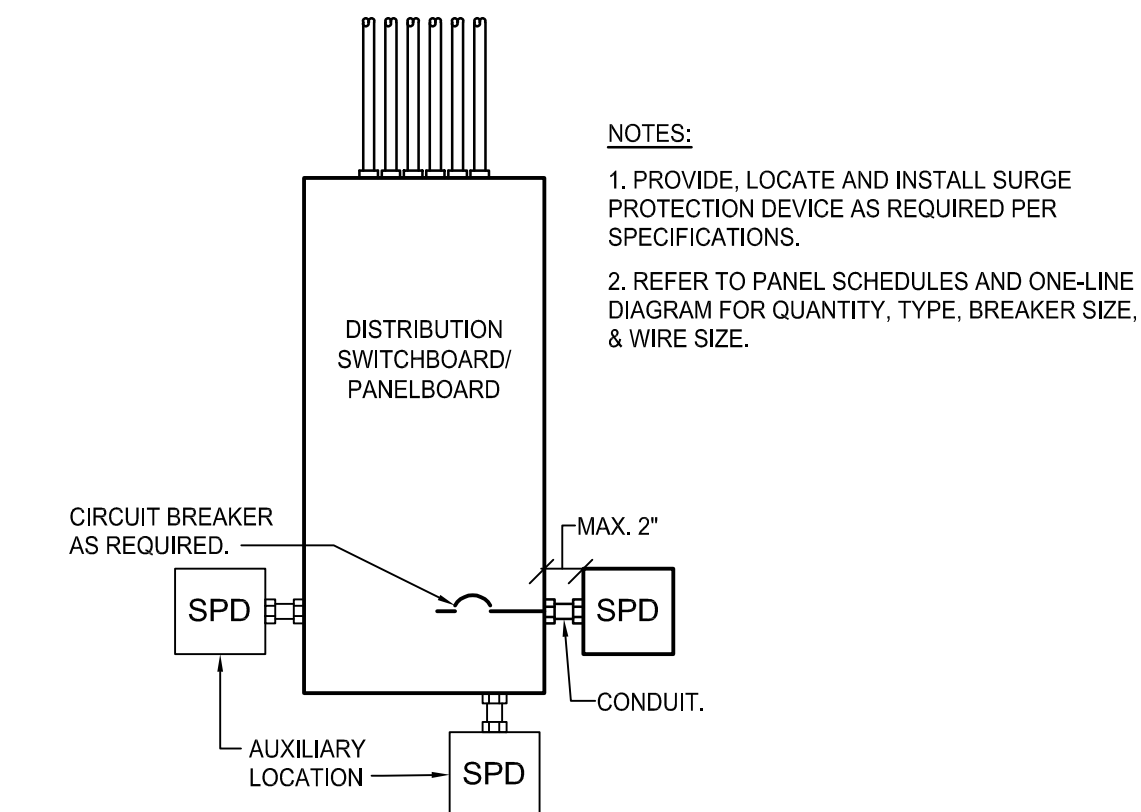
DRAWINGS SHEET TITLE
ELECTRICAL DETAILS AND SCHEDULES

SHEET NUMBER
E501
PROJECT NUMBER
21021

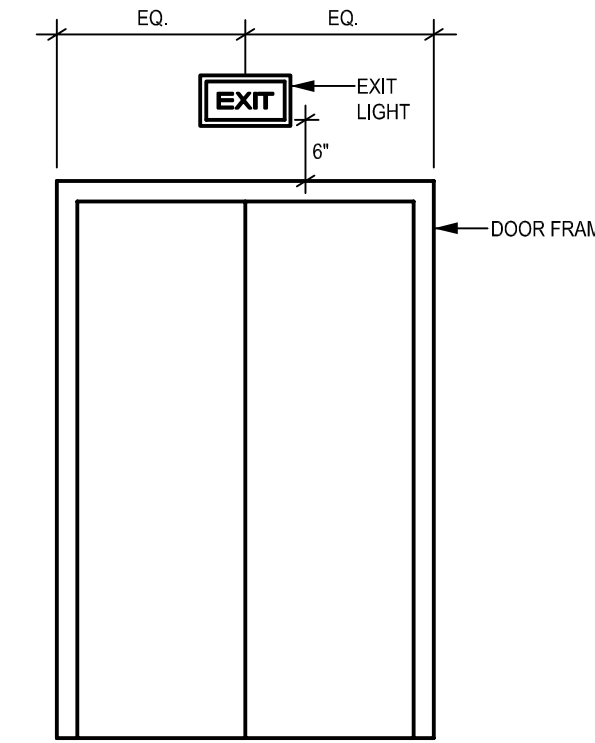




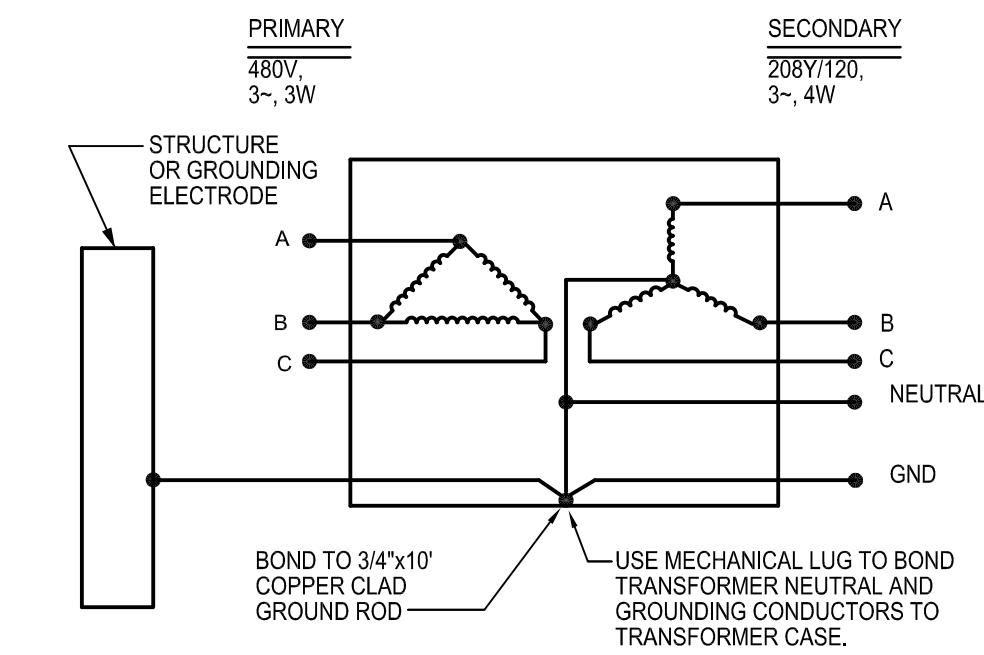
3 CONDUIT BELOW BUILDING SLAB
SCALE: NONE



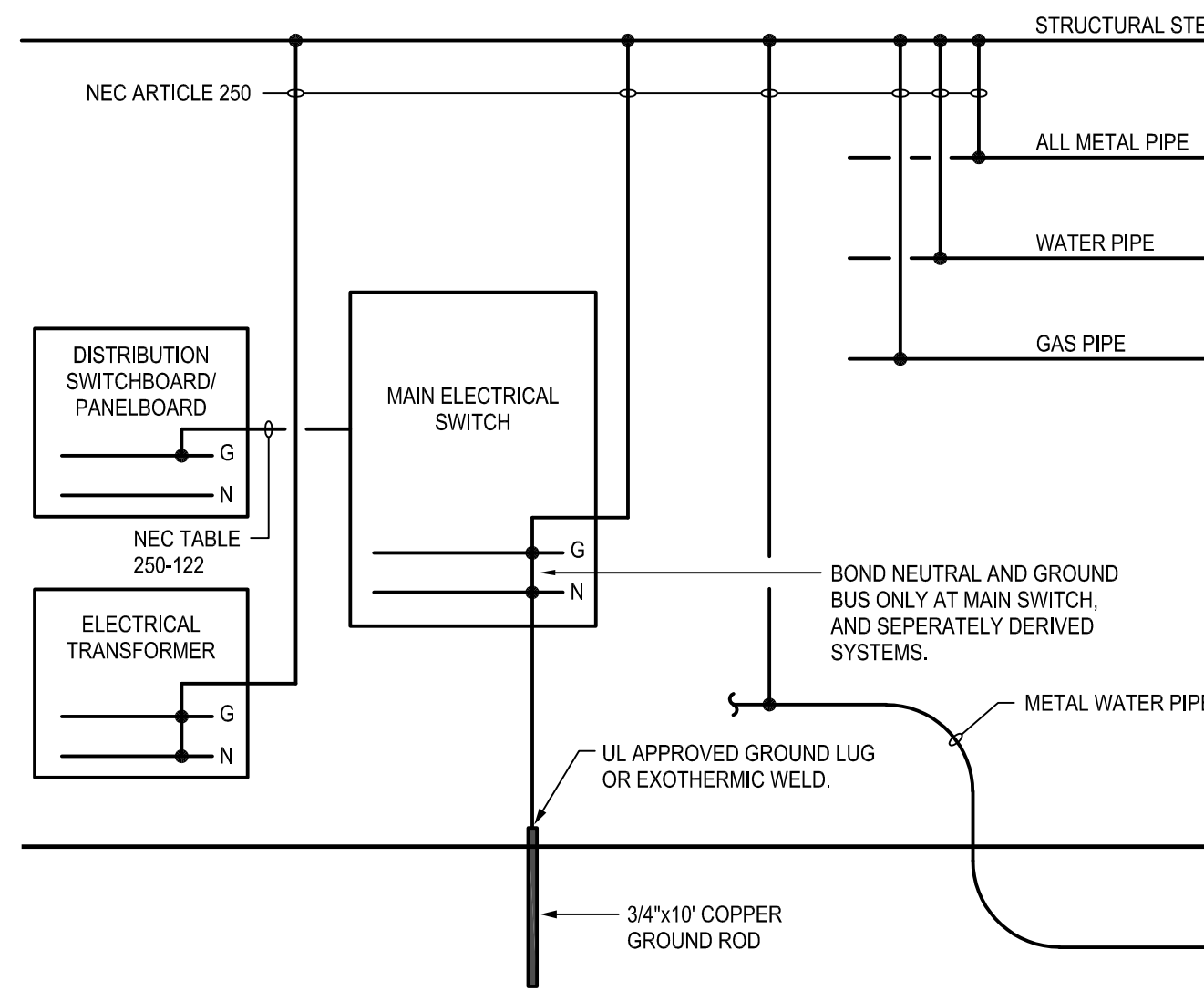
3 SURGE PROTECTION DETAIL
SCALE: NONE



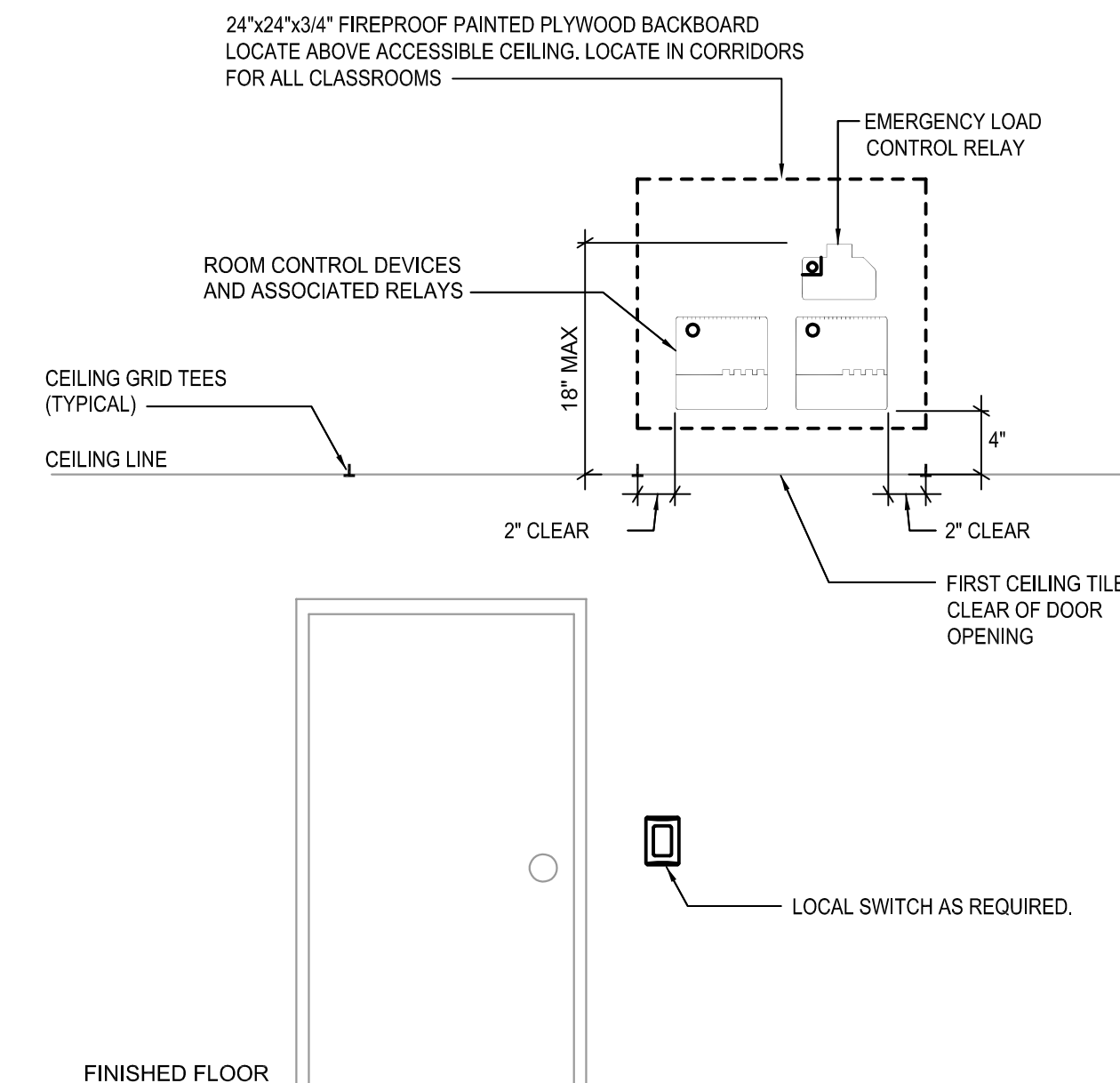
5 TYPICAL EXIT SIGN
SCALE: NONE



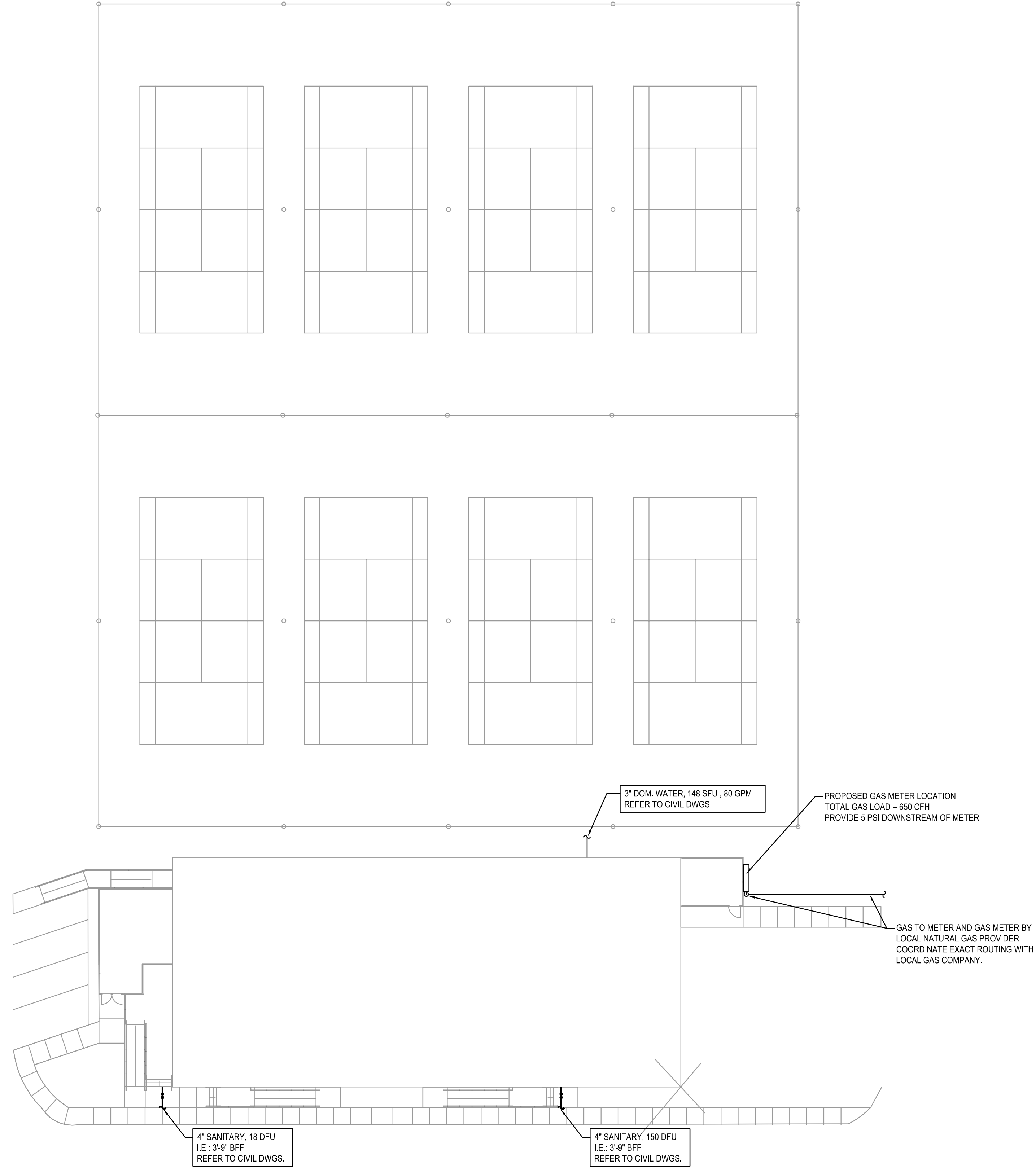
2 TRANSFORMER GROUNDING DETAIL
SCALE: NONE

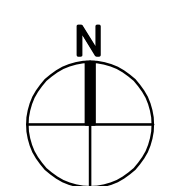
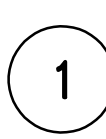


4 GROUNDING DETAIL
SCALE: NONE



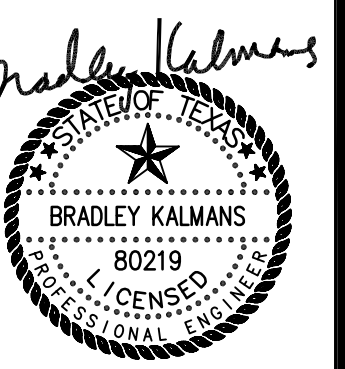
1 TYPICAL LIGHTING CONTROLS ELEVATION
SCALE: NONE





PLUMBING SITE PLAN
 SCALE: 1" = 20'


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 Project No. 2021-04159-00


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 BRADLEY KALMANS
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 LICENSED PROFESSIONAL ENGINEER
 MECHANICAL
 TEXAS
 04-18-2022

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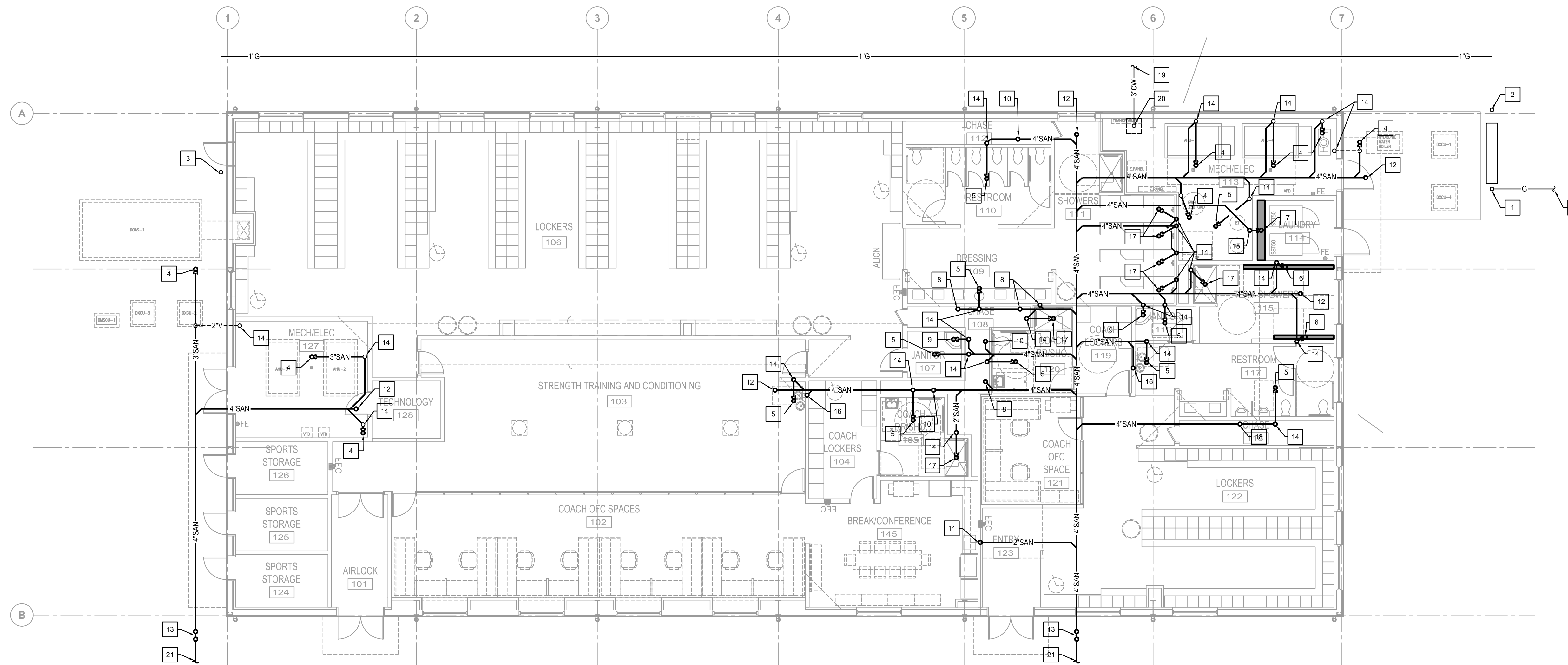
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DRAWINGS SHEET TITLE
PLUMBING SITE PLAN

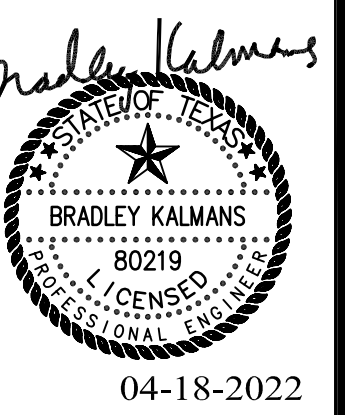
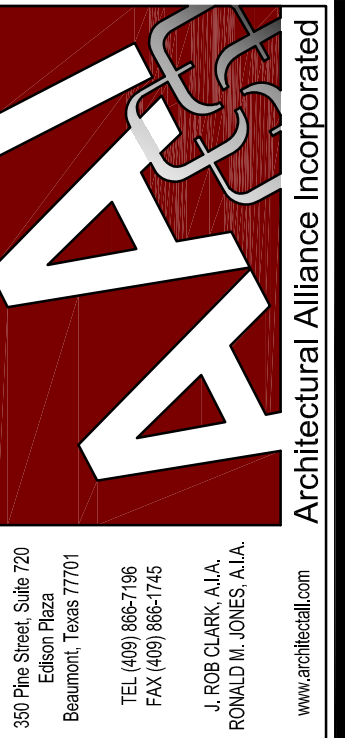
SHEET NUMBER
P101
 21021
 PROJECT NUMBER

PLUMBING KEYED NOTES:

- 1 NATURAL GAS LINE UP TO METER BY LOCAL GAS PROVIDER.
- 2 1" GAS AT 5 PSI FROM METER ABOVE.
- 3 1" GAS AT 5 PSI UP.
- 4 3" SANITARY FROM FLOOR SINK ABOVE.
- 5 3" SANITARY FROM FLOOR DRAIN ABOVE.
- 6 3" SANITARY FROM TRENCH DRAIN ABOVE.
- 7 4" SANITARY FROM TROUGH DRAIN ABOVE.
- 8 2" SANITARY FROM LAVATORY ABOVE.
- 9 3" SANITARY FROM MOP SINK ABOVE.
- 10 4" SANITARY FROM WATER CLOSET ABOVE.
- 11 2" SANITARY FROM SINK ABOVE.
- 12 4" SANITARY FROM FLOOR CLEANOUT ABOVE.
- 13 4" SANITARY FROM TWO WAY EXTERIOR CLEANOUT ABOVE.
- 14 2" VENT UP.
- 15 3" VENT UP.
- 16 2" SANITARY FROM DRINKING FOUNTAIN ABOVE.
- 17 2" SANITARY FROM SHOWER DRAIN ABOVE.
- 18 4" SANITARY FROM URINAL ABOVE.
- 19 3" DOMESTIC WATER, REFER TO SITE PLAN FOR CONTINUATION.
- 20 3" DOMESTIC WATER UP THRU SLAB.
- 21 4" SANITARY, REFER TO SITE PLAN FOR CONTINUATION.
- 22 NATURAL GAS LINE TO METER, REFER TO SITE PLAN FOR CONTINUATION.



1
PLUMBING UNDERFLOOR PLAN
 SCALE: 1/8" = 1'-0"



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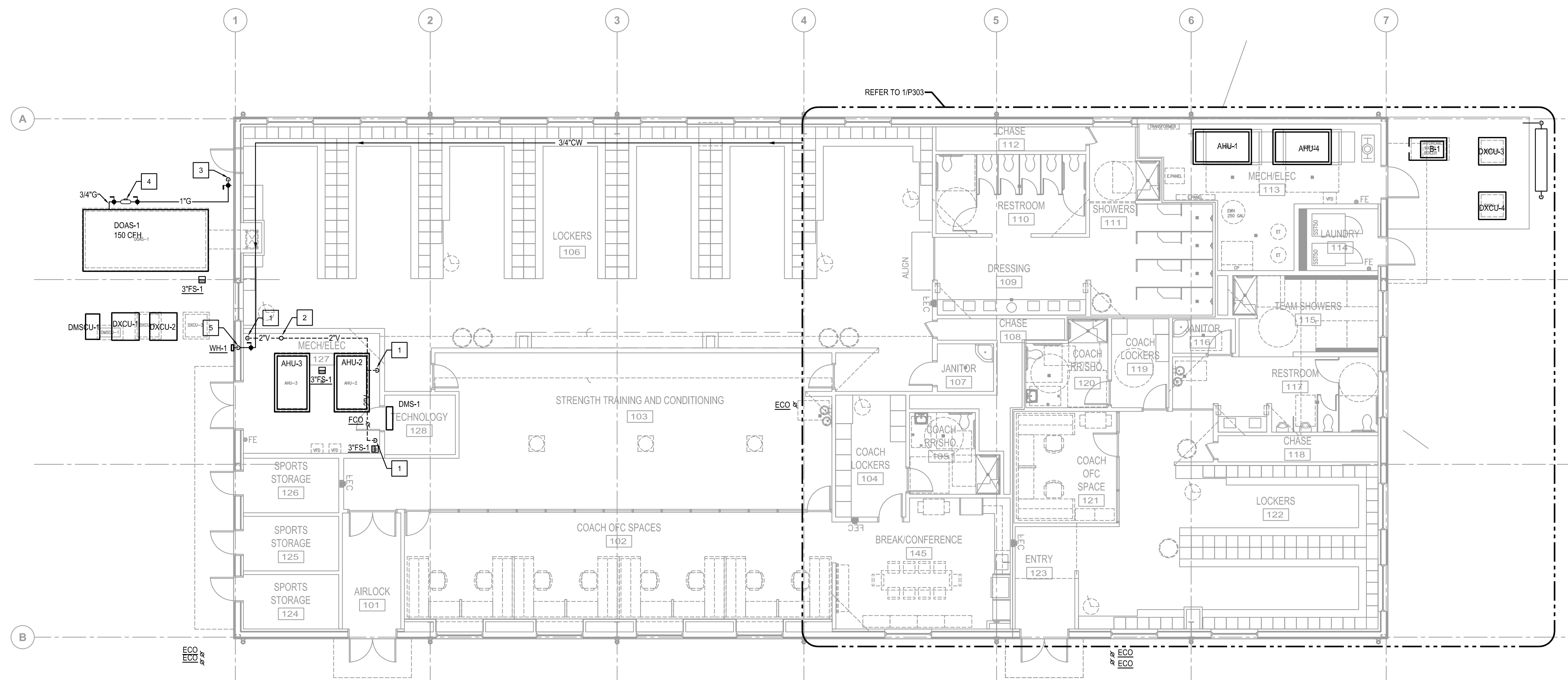
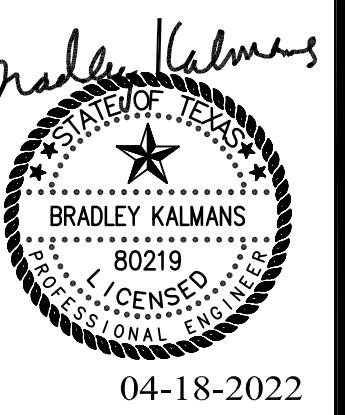
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DRAWINGS SHEET TITLE	
PLUMBING UNDERFLOOR PLAN	
SHEET NUMBER	
P201	
PROJECT NUMBER	
21021	

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PLUMBING KEYED NOTES:

- 1 2" VENT FROM BELOW.
- 2 2" VENT UP TO 4" VTR.
- 3 1" GAS AT 5 PSI FROM BELOW GRADE.
- 4 NATURAL GAS PRESSURE REGULATOR, 5 PSI TO 8 POUND PRESSURE, 150 CFH.
- 5 3/4" CW DOWN.



PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"

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Project No. 2021-04159-00

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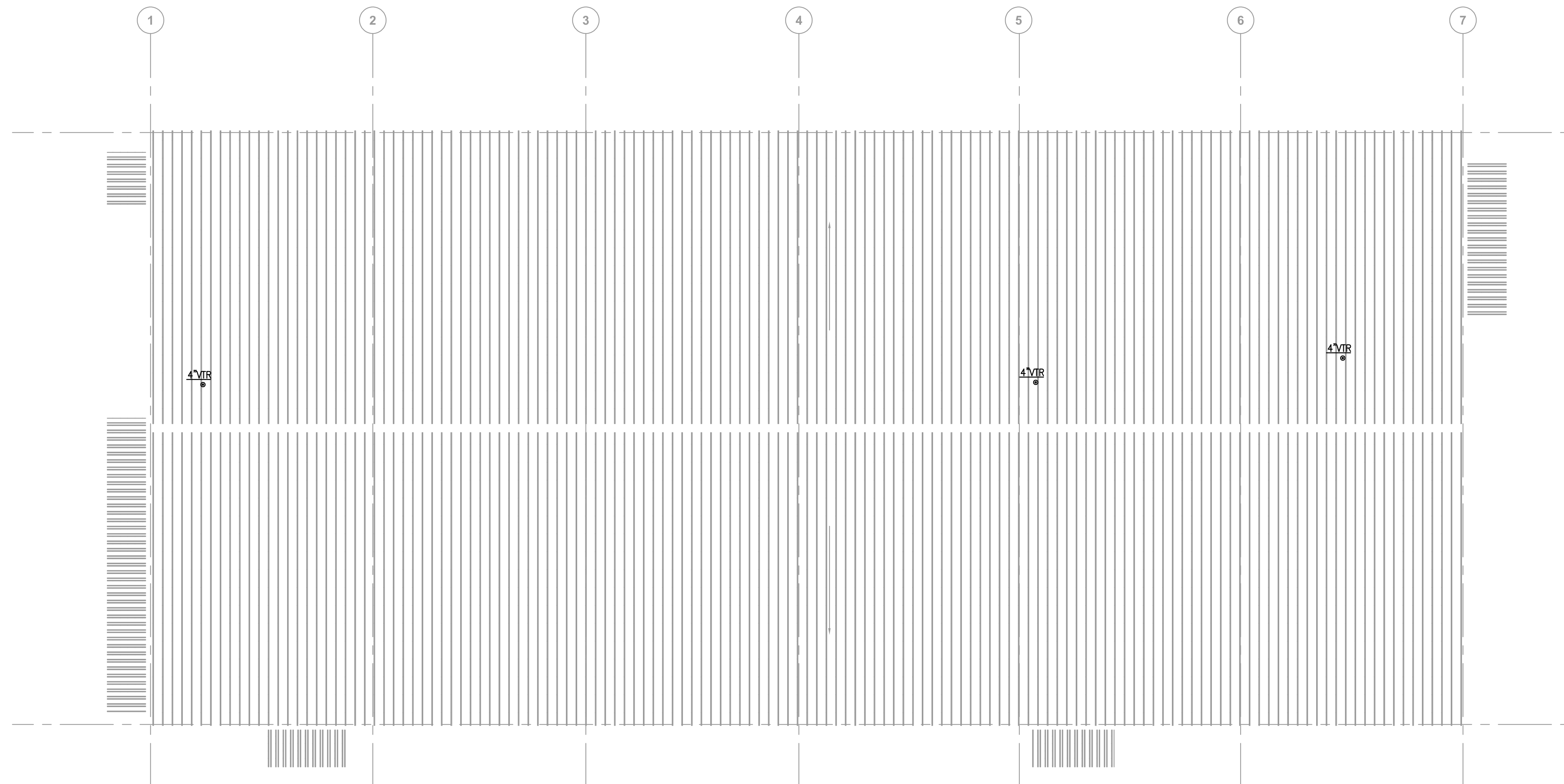
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DRAWINGS SHEET TITLE
PLUMBING FLOOR PLAN

SHEET NUMBER
P301
21021
PROJECT NUMBER



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

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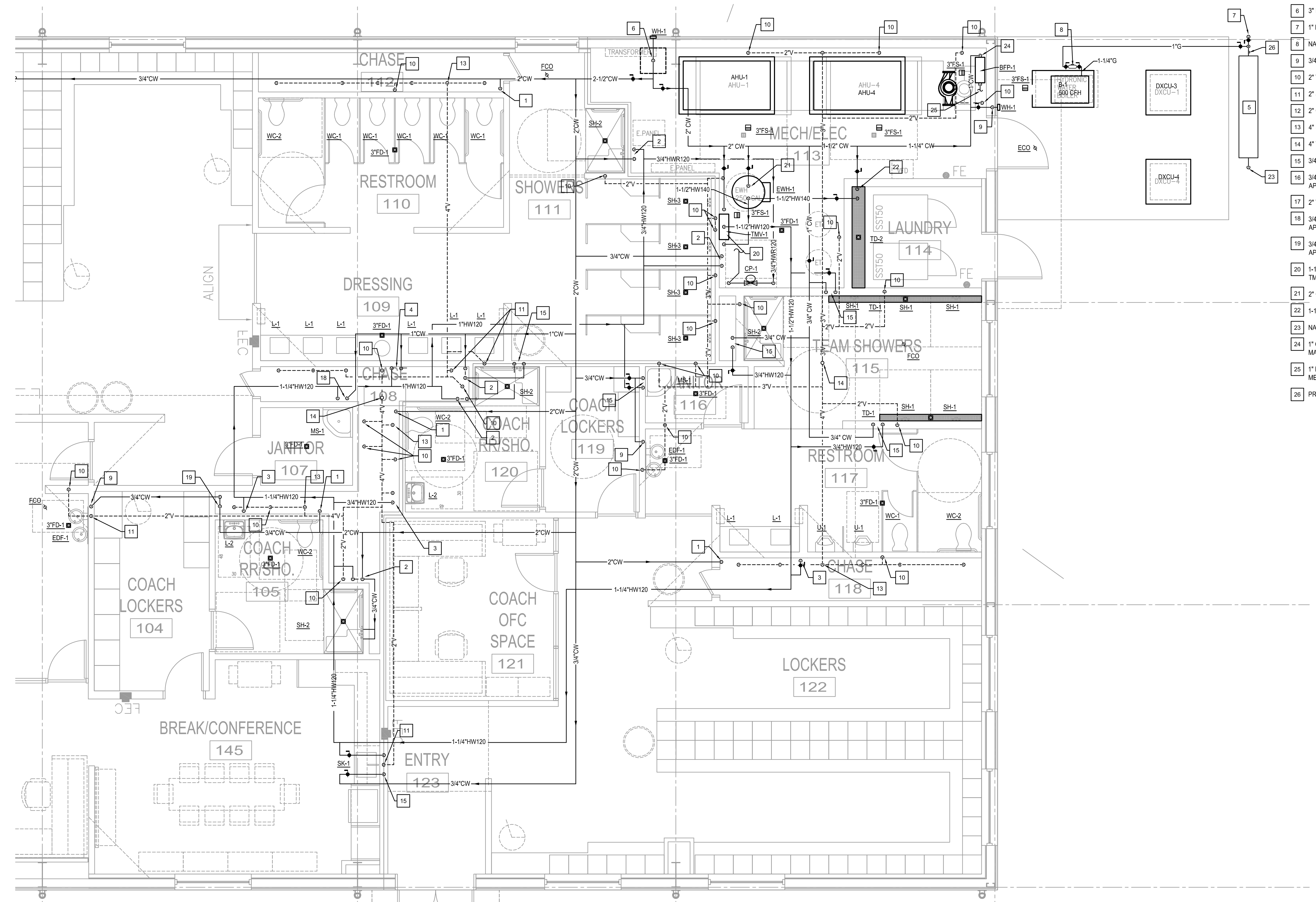
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DRAWINGS SHEET TITLE
PLUMBING ROOF PLAN

SHEET NUMBER
P302
 21021
 PROJECT NUMBER

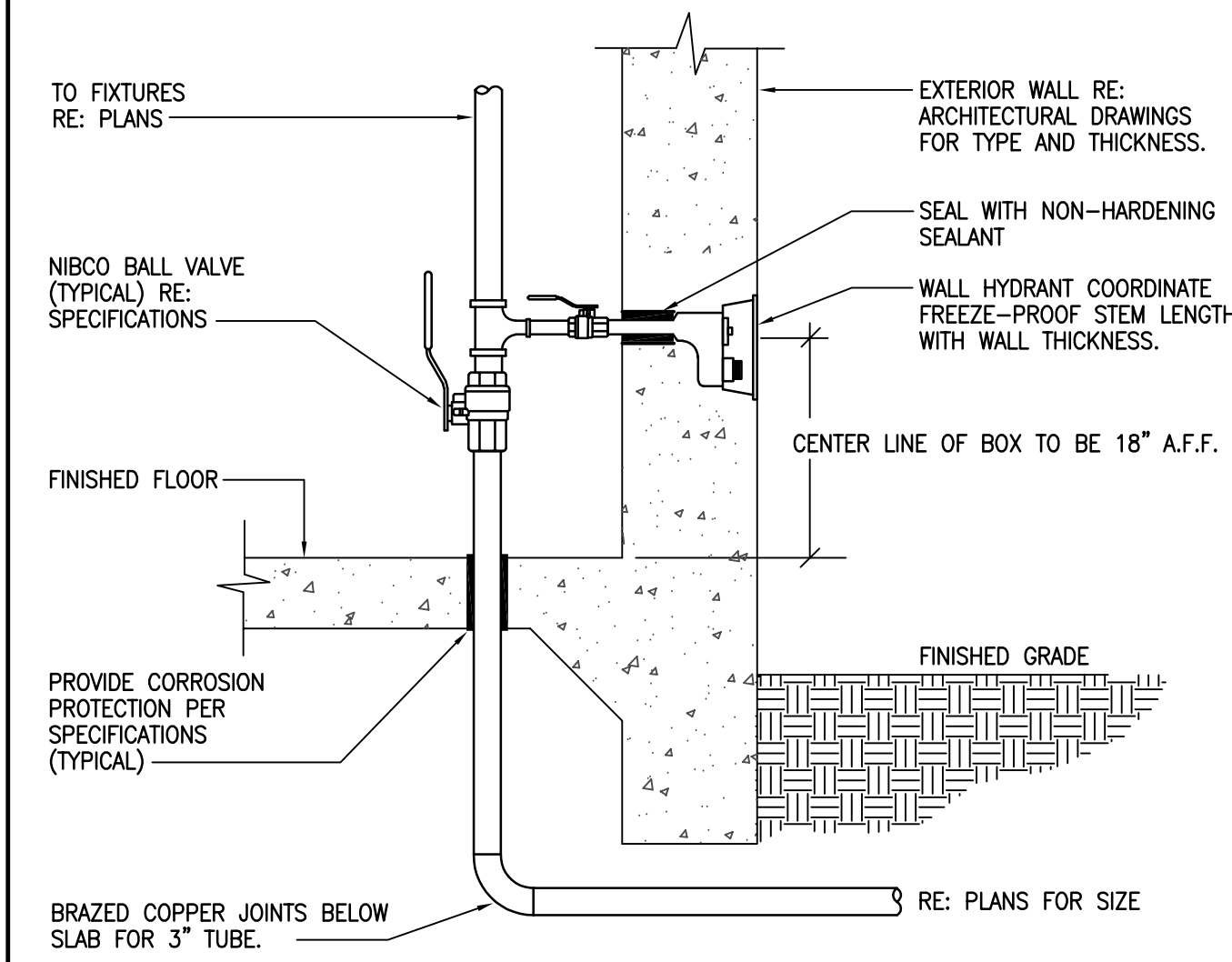
PLUMBING KEYED NOTES:

- 1 2" CW DOWN IN CHASE AND PROVIDE BALL VALVE AT APPROXIMATELY 60" A.F.F. EXTEND CW TO SERVE FIXTURES.
- 2 3/4" CW AND HW DOWN IN CHASE AND PROVIDE BALL VALVE AT APPROXIMATELY 60" A.F.F. EXTEND TO SERVE SHOWER.
- 3 3/4" HW DOWN IN CHASE AND PROVIDE BALL VALVE AT APPROXIMATELY 60" A.F.F. EXTEND TO SERVE FIXTURES.
- 4 3/4" CW AND HW DOWN IN CHASE AND PROVIDE BALL VALVE AT APPROXIMATELY 60" A.F.F. EXTEND TO LAVATORIES.
- 5 PROPOSED GAS METER LOCATION. PROVIDE 5 PSI DOWNSTREAM OF METER, 650 CFH.
- 6 3" DOMESTIC WATER FROM BELOW.
- 7 1" NATURAL GAS DOWN, 5 PSI, TO BELOW GRADE.
- 8 NATURAL GAS PRESSURE REGULATOR, 5 PSI TO 8 OZ, 500 CFH.
- 9 3/4" CW DOWN.
- 10 2" VENT FROM BELOW.
- 11 2" SANITARY DOWN, 2" VENT UP.
- 12 2" CW DOWN.
- 13 4" SANITARY DOWN, 4" VENT UP.
- 14 4" VENT UP TO 4" VTR.
- 15 3/4" CW AND HW DOWN.
- 16 3/4" CW AND HW DONE IN CHASE AND PROVIDE BALL VALVE AT APPROXIMATELY 60" A.F.F. EXTEND TO MOP SINK.
- 17 2" VENT UP TO 4" VTR.
- 18 3/4" CW AND HW DOWN IN CHASE AND PROVIDE BALL VALVE AT APPROXIMATELY 60" A.F.F. EXTEND TO MOP SINK.
- 19 3/4" CW DOWN IN CHASE AND PROVIDE BALL VALVE AT APPROXIMATELY 60" A.F.F. EXTEND TO DRINKING FOUNTAIN.
- 20 1-1/2" CW AND 1-1/2" HW140 DOWN TO TMV-1. 1-1/2" HW120 UP FROM TMV-1.
- 21 2" CW DOWN TO WATER HEATER, 2" HW140 UP FROM WATER HEATER.
- 22 1-1/2" CW AND HW DOWN TO SERVE CLOTHES WASHERS.
- 23 NATURAL GAS LINE FROM BELOW GRADE BY LOCAL GAS PROVIDER.
- 24 1" CW DOWN TO BACKFLOW PREVENTER SERVING MECHANICAL MAKEUP WATER.
- 25 1" MAKEUP WATER TO SERVE MECHANICAL MAKEUP. REFER TO MECHANICAL DRAWINGS FOR CONTINUATION.
- 26 PROVIDE GAS PRESSURE TEST TEE. COORDINATE WITH OWNER.

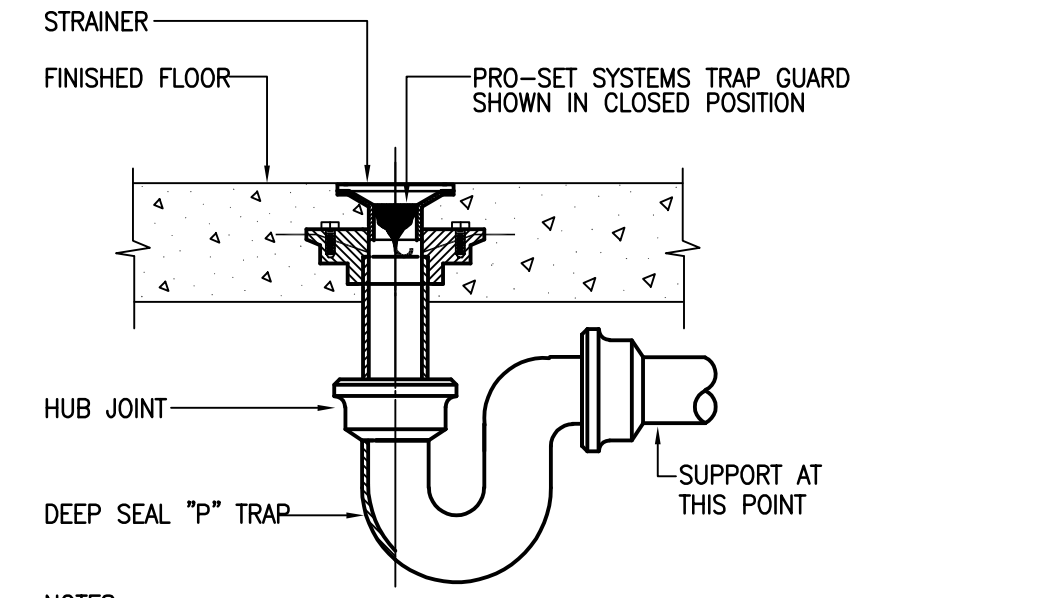


PLUMBING ENLARGED FLOOR PLAN
 SCALE: 1/4" = 1'-0"

SALASOBRIEN
 [expect a difference]
 10930 W. Sam Houston Parkway N., Suite 900
 Houston, Texas 77064
 281.664.1900 | Registration No. F-4111
 Project No. 2021-04159-00

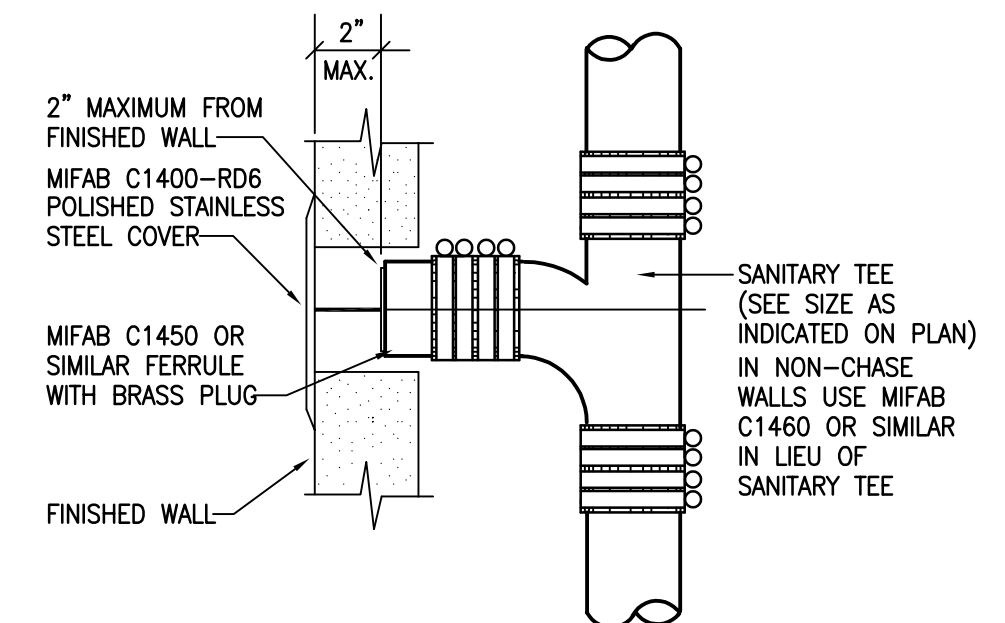


08 DOMESTIC WATER ENTRY
SCALE: NONE WE04-11/12/08

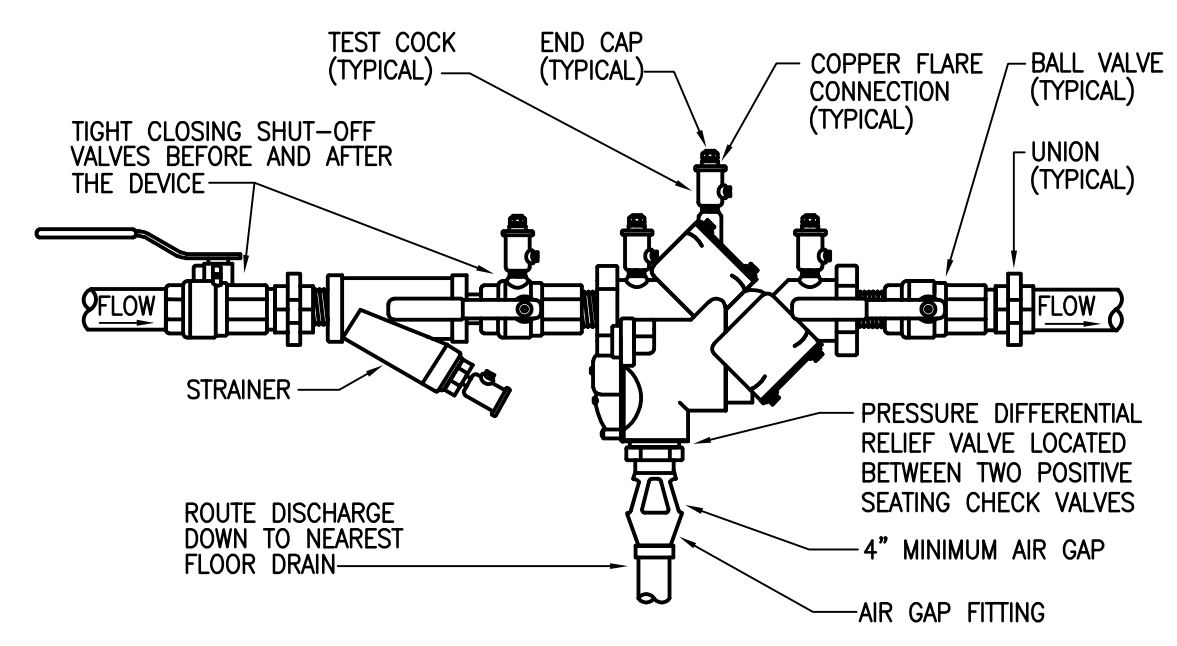


05 TRAP SEAL PROTECTION
SCALE: NONE SA30-11/12/08

NOTES:
1. TRAP GUARD SHALL BE FACTORY FITTED TO MATCH EACH FLOOR DRAIN (AND FLOOR SINK) BY SIZE, MODEL, AND MANUFACTURER.
2. FLOOR SINK TRAP GUARD INSTALLATION IS SIMILAR.
3. INSTALLATION OF TRAP GUARD TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. INSERT TRAP GUARD ONLY AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS TITE SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2\"/>

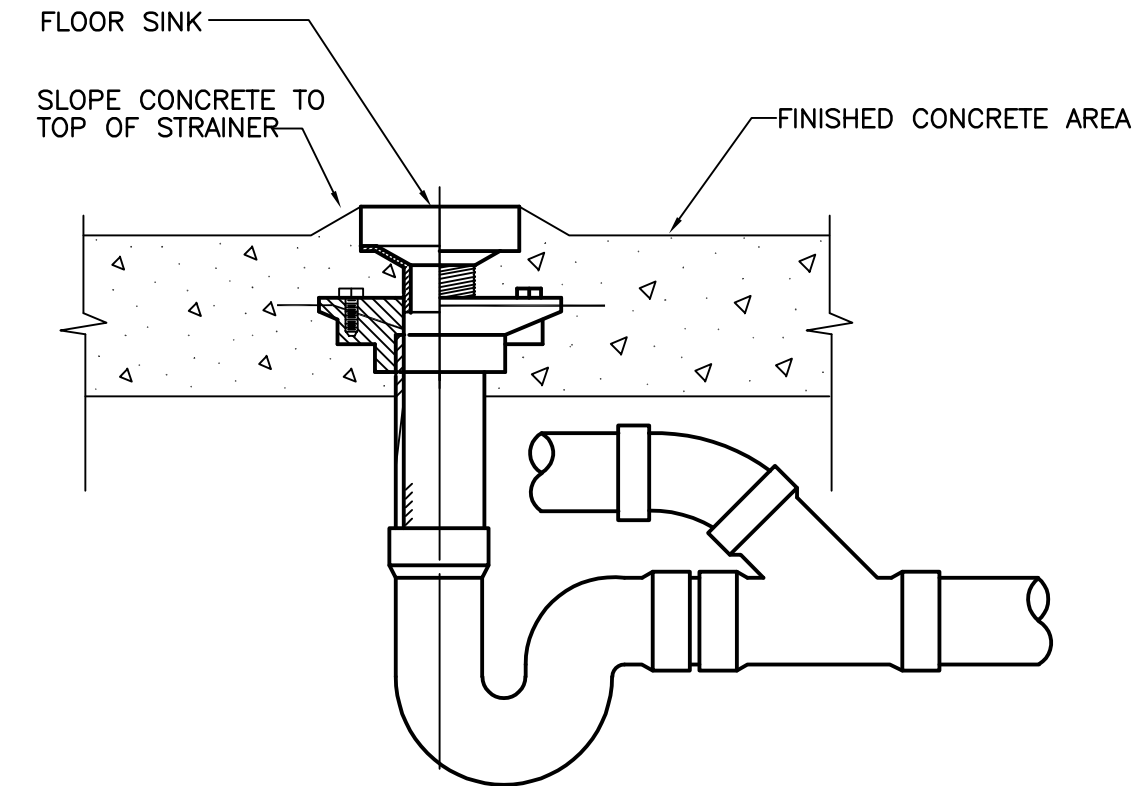


02 WALL CLEANOUT
SCALE: NONE SA02-8/13/07

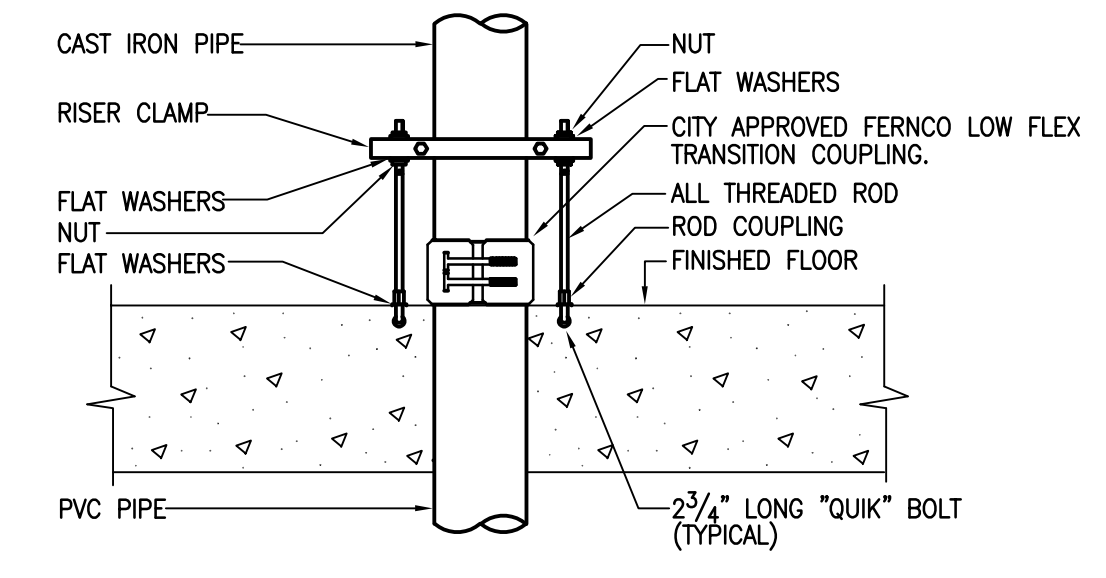


10 REDUCED PRESSURE ZONE BACKFLOW PREVENTER
SCALE: NONE WE025-11/12/08

NOTE: MOUNT AT 48\"/>

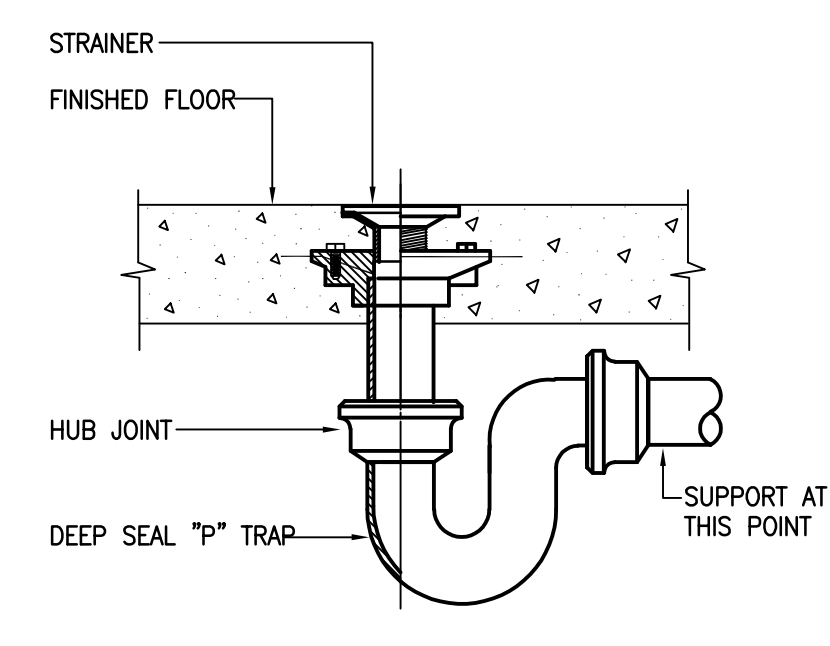


07 OUTDOOR CONDENSATE DRAIN
SCALE: NONE CD04-11/12/08

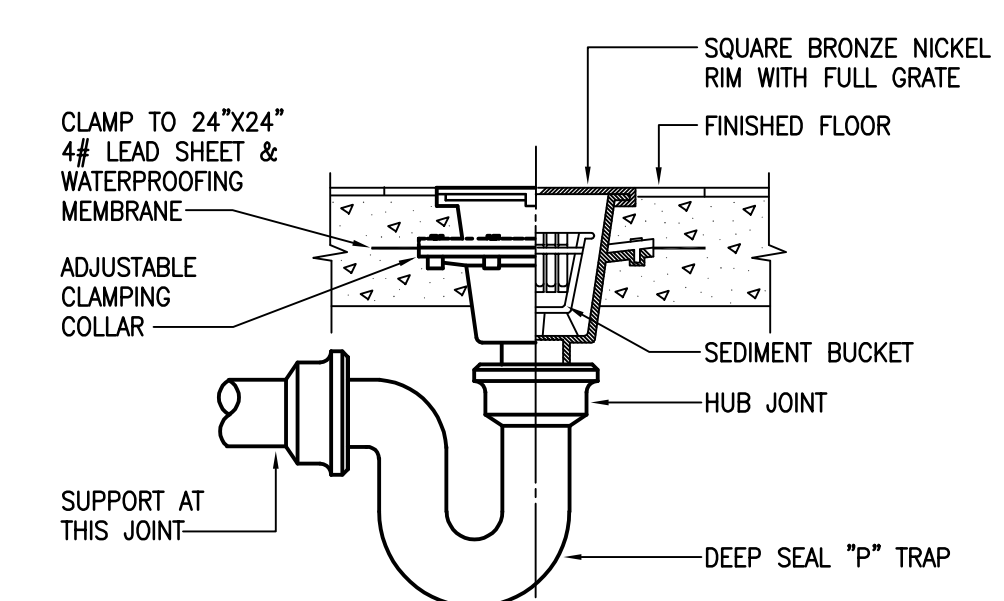


04 CAST IRON TO PVC TRANSITION
SCALE: NONE SA26-11/12/08

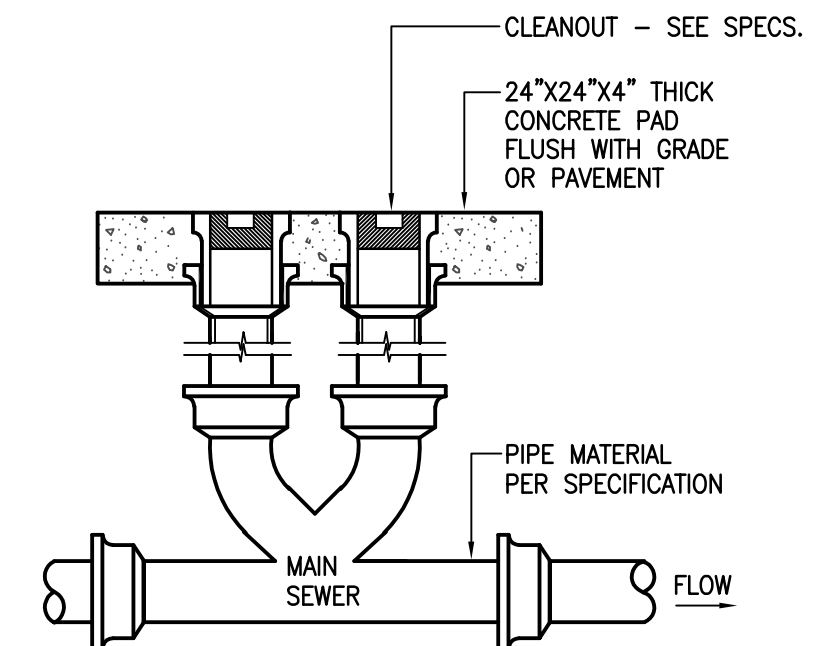
NOTE:
1. MAKE CONNECTION FROM PVC BELOW SLAB TO CAST IRON ABOVE SLAB WITH FERRO TRANSITION COUPLING.
2. THERE IS TO BE NO EXPOSED PVC ABOVE SLAB.



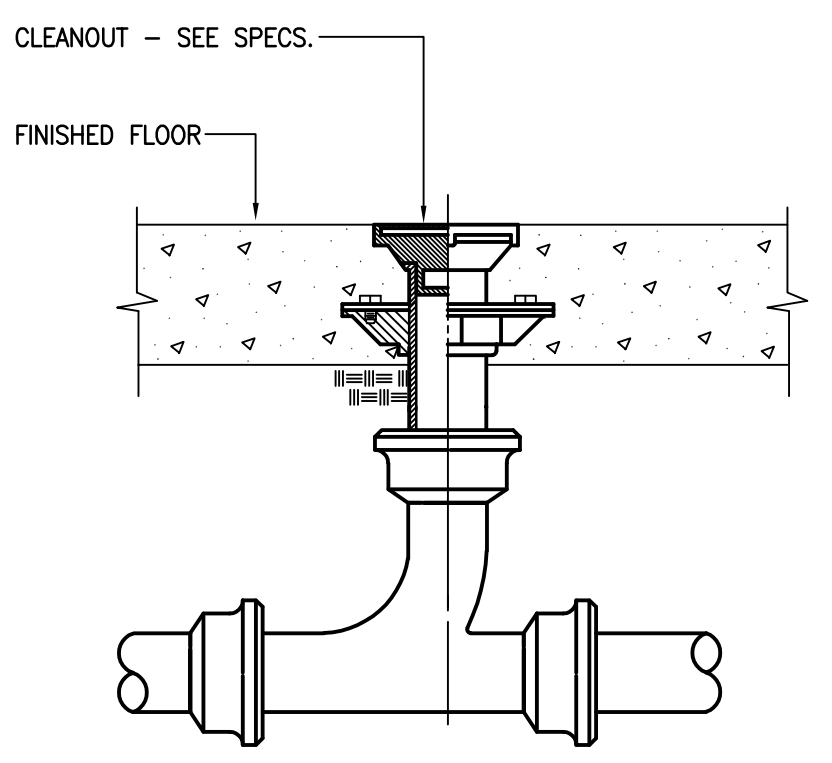
01 FLOOR DRAIN DETAIL
SCALE: NONE SA06-11/12/08



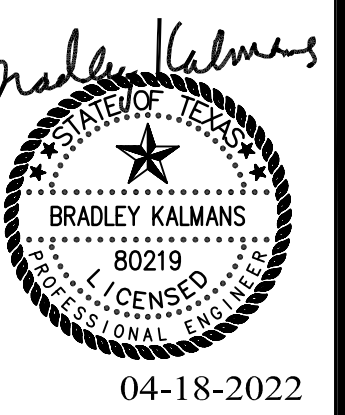
09 FLOOR SINK
SCALE: NONE SA07-11/12/08



06 TWO-WAY EXTERIOR CLEANOUT
SCALE: NONE SA04-11/12/08



03 FLOOR CLEANOUT
SCALE: NONE SA01-11/12/08



WEST BROOK AUXILIARY FIELD HOUSE
Beaumont Independent School District
8750 Phelan Blvd
Beaumont, TX 77706

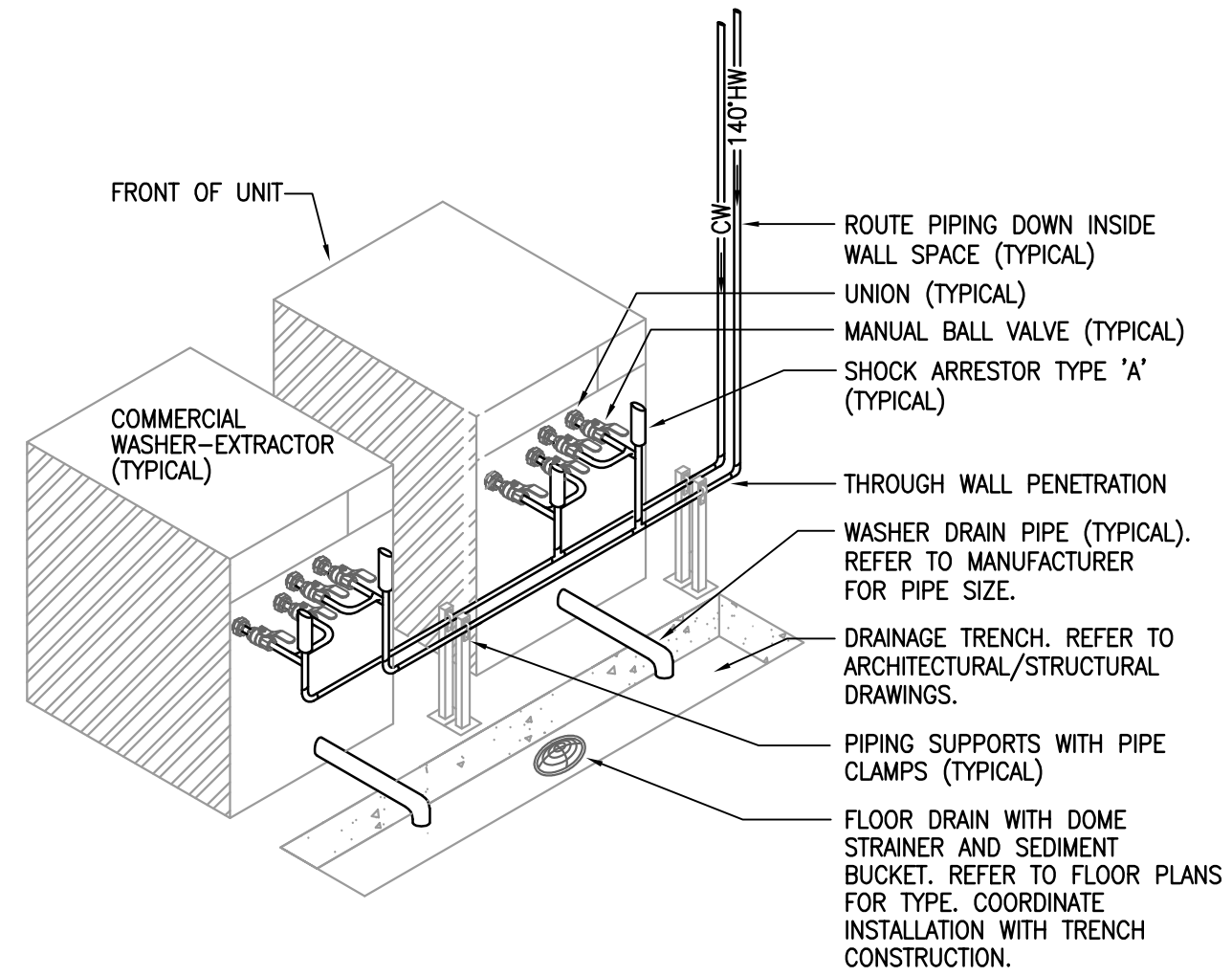
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DESIGN DEVELOPMENT	<input type="checkbox"/>
DATE: ---	
BIDS & CONSTRUCTION	<input checked="" type="checkbox"/>
DATE: 04/18/2022	
REVISION:	DATE: _____
REVISION:	DATE: _____
REVISION:	DATE: _____

DRAWINGS SHEET TITLE
PLUMBING ENLARGED PLANS

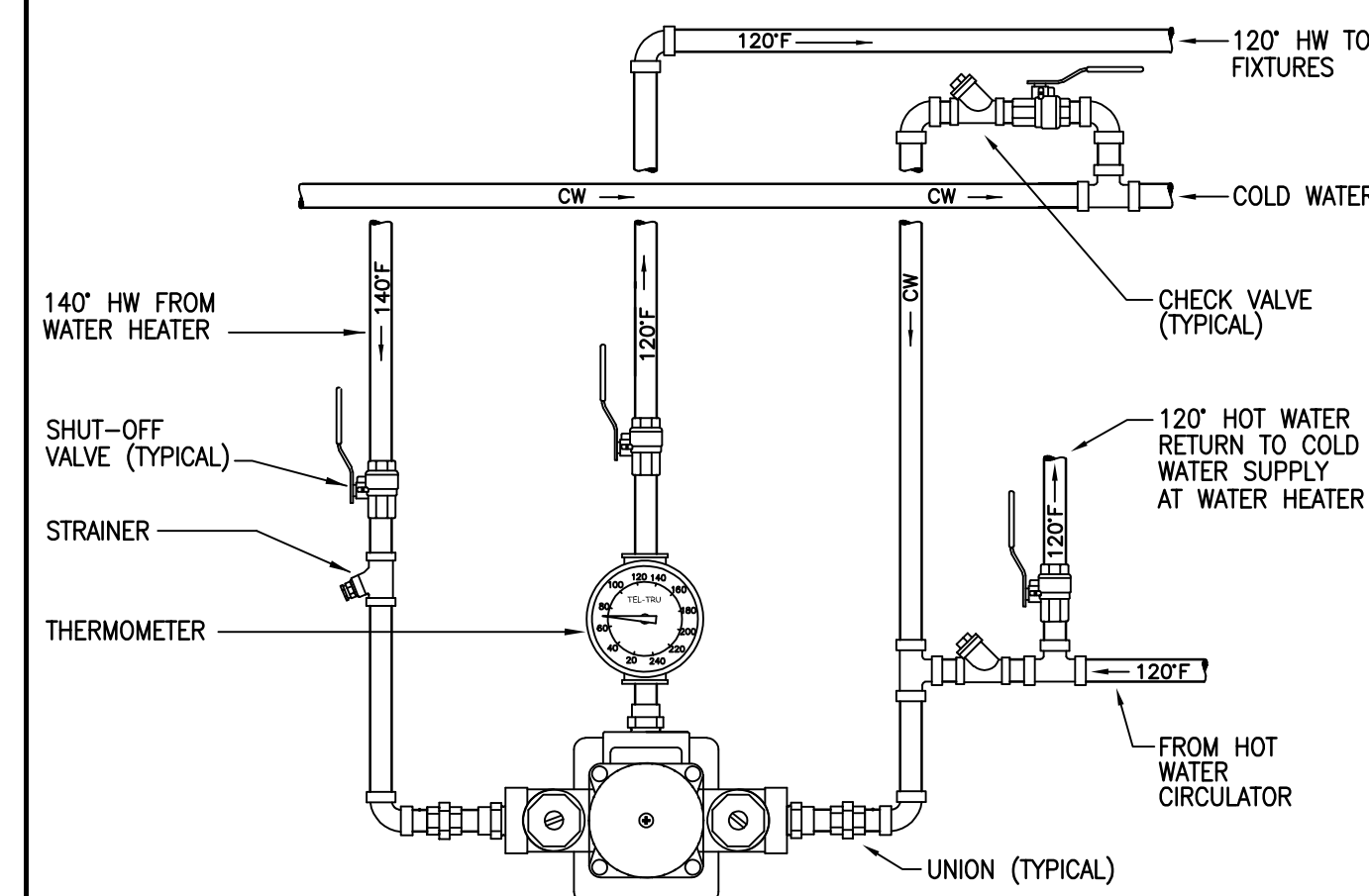
SHEET NUMBER
P401

21021
PROJECT NUMBER



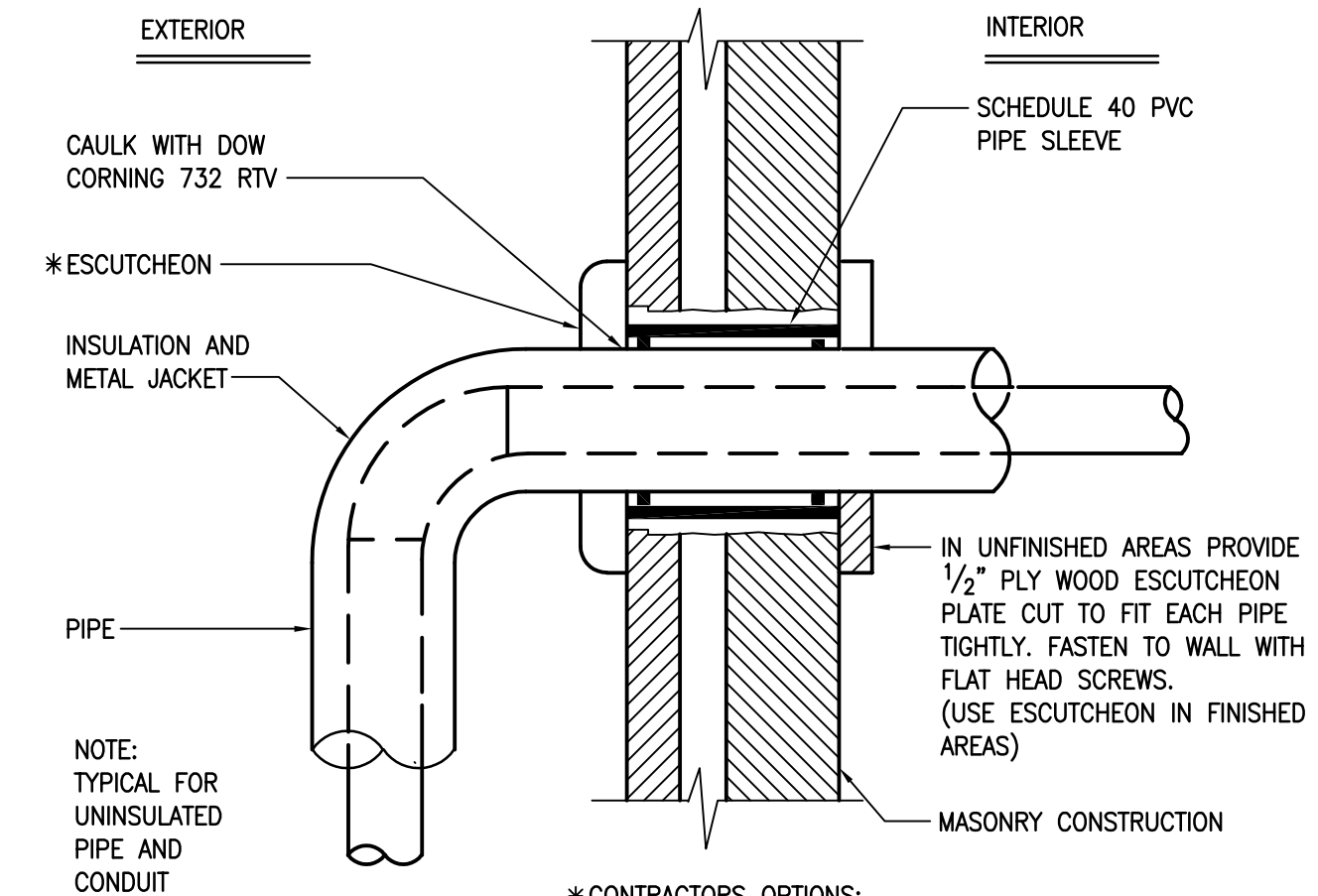


08 TYPICAL COMMERCIAL LAUNDRY WASHER-EXTRACTOR PIPING
SCALE: NONE LA02-11/12/08



05 THERMOSTATIC MIXING VALVE
SCALE: NONE HW04-11/12/08

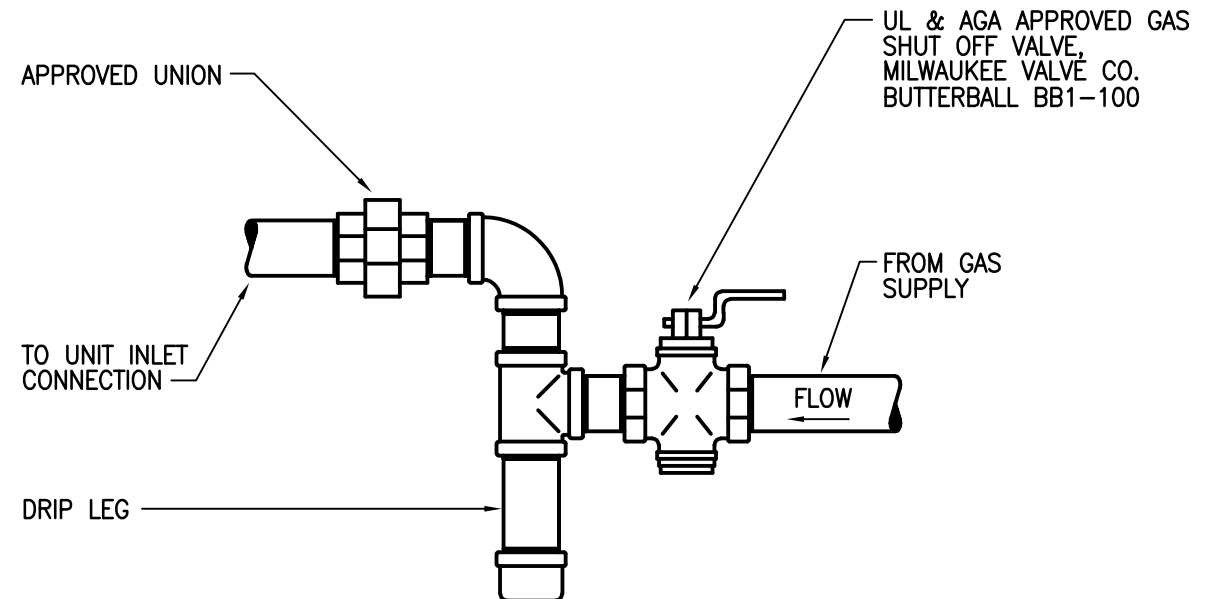
GENERAL NOTES:
1. MOUNT MIXING VALVE AT 48"-60" A.F.F. UNLESS NOTED OTHERWISE ON PLANS.
2. REFER TO PLANS FOR ALL PIPE SIZES. PROVIDE PIPE INCREASERS/DECREASERS AS REQUIRED.
3. REFER TO PLANS FOR ALL EQUIPMENT LOCATIONS.
4. MAKE ALL WATER CONNECTIONS TO THERMOSTATIC MIXING VALVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. ALL THERMOSTATIC MIXING VALVES MUST BE LEAD FREE.



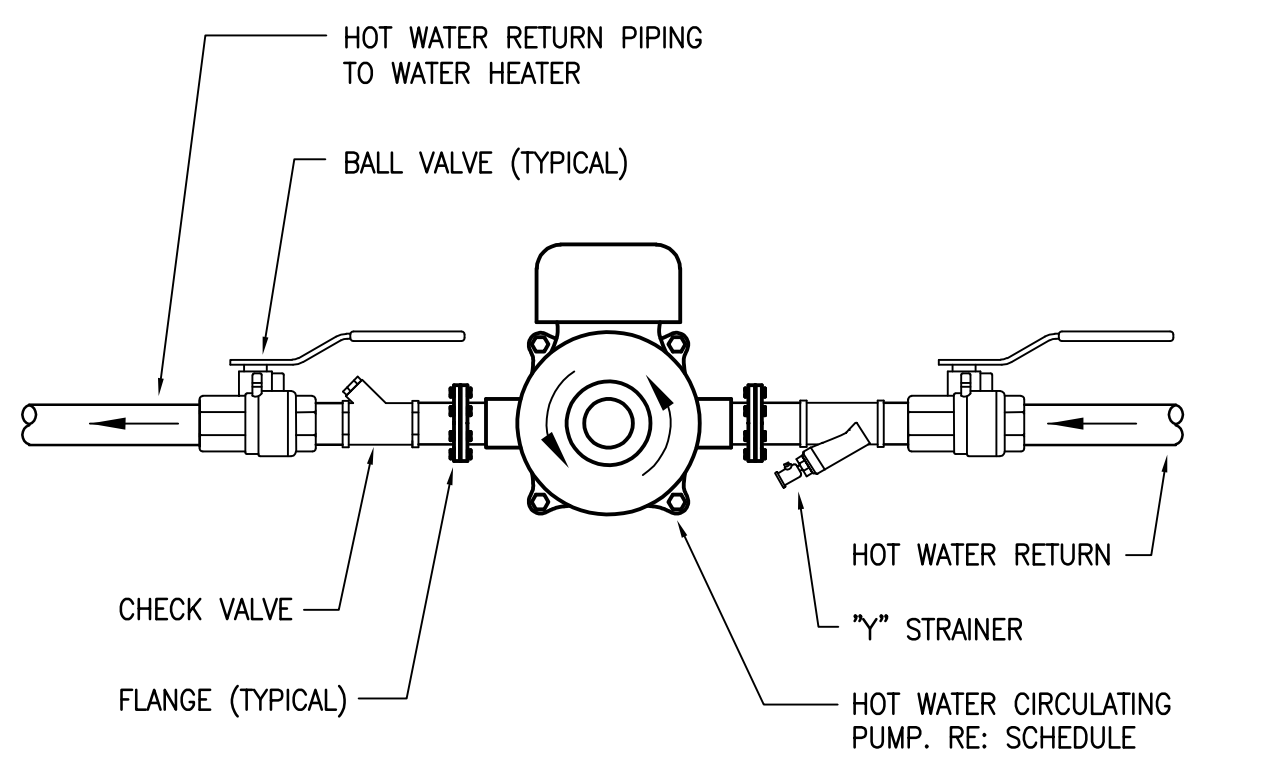
02 EXTERIOR WALL PENETRATION
SCALE: NONE SL03-11/12/08

NOTE: TYPICAL FOR UNINSULATED PIPE AND CONDUIT

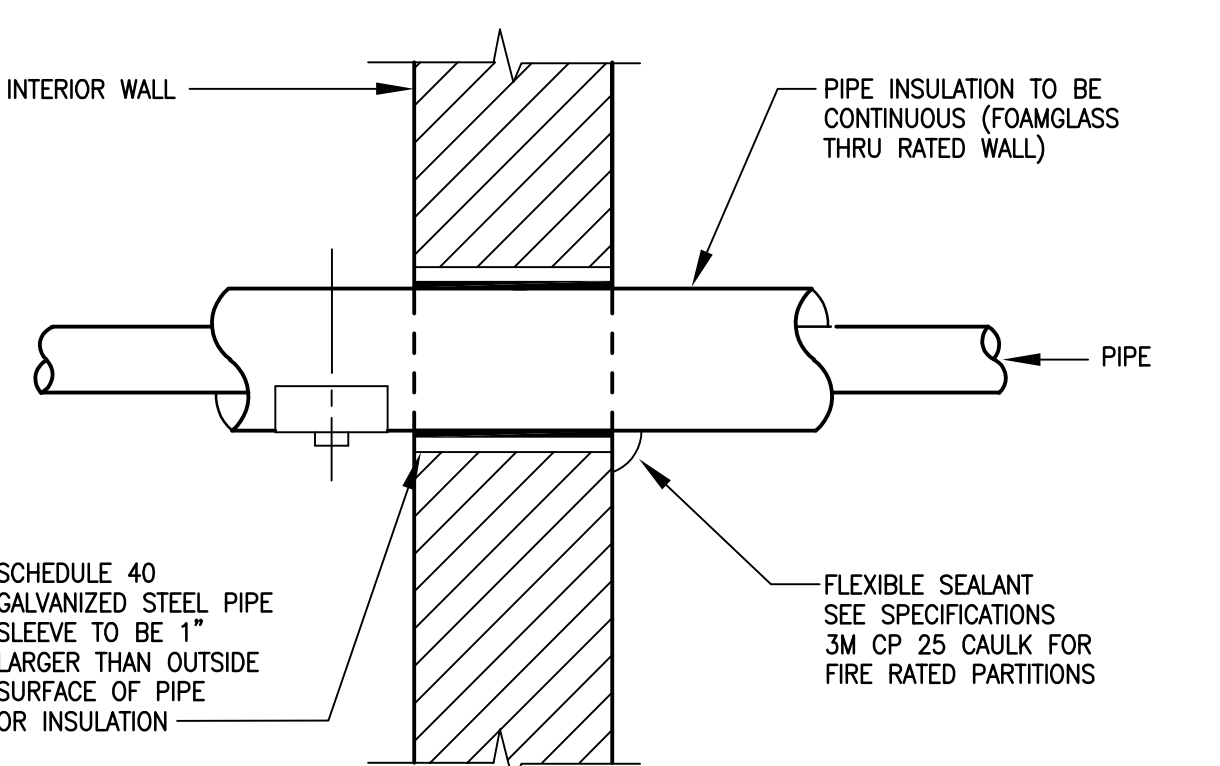
*CONTRACTOR'S OPTIONS:
USE FIELD FABRICATED 302/304 STAINLESS STEEL PLATE WITH CRIMPED EDGES



07 GAS CONNECTION
SCALE: NONE GA07-11/12/08

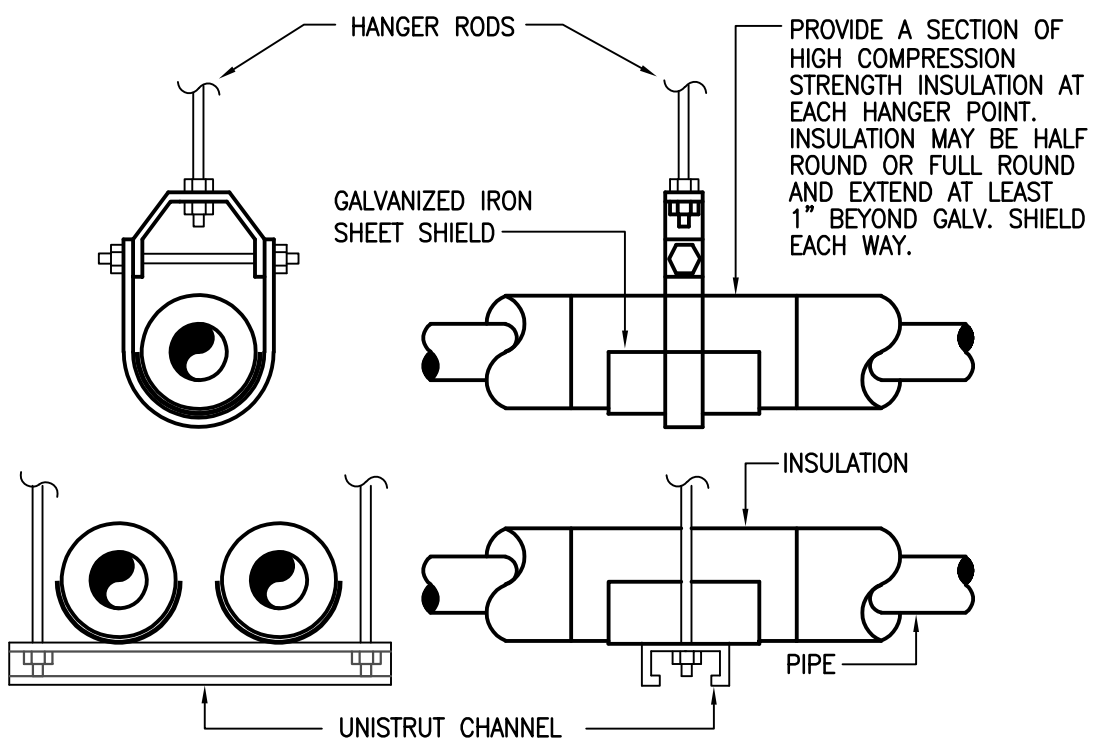


04 HOT WATER CIRCULATING PUMP
SCALE: NONE HW01-11/12/08

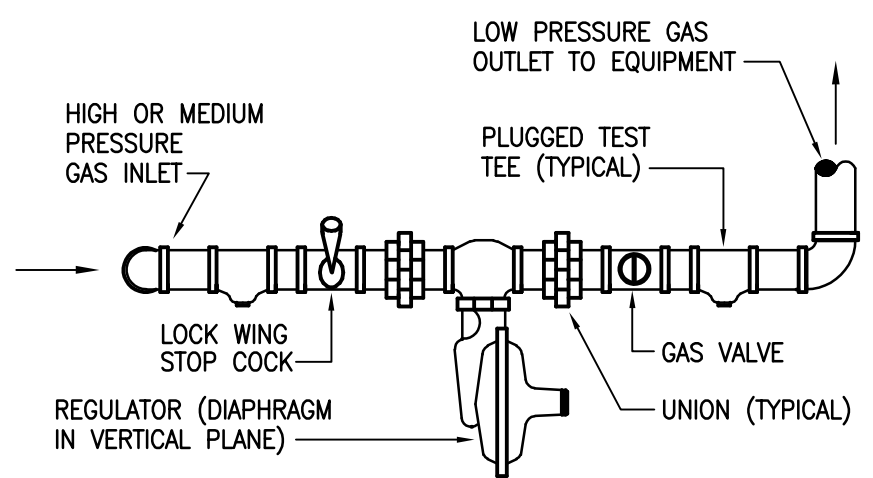


01 INTERIOR WALL PENETRATION
SCALE: NONE SL01-11/12/08

MINIMUM DIMENSIONS OF GALVANIZED SHEETMETAL PROTECTION SHIELDS AT PIPE HANGERS		
NOMINAL SIZE PIPE	SHIELD LENGTH (IN.)	GUAGE THICKNESS
1/2" & 3/4"	12	18
1" - 2-1/2"	12	18
3" - 4"	16	18
6"	18	16

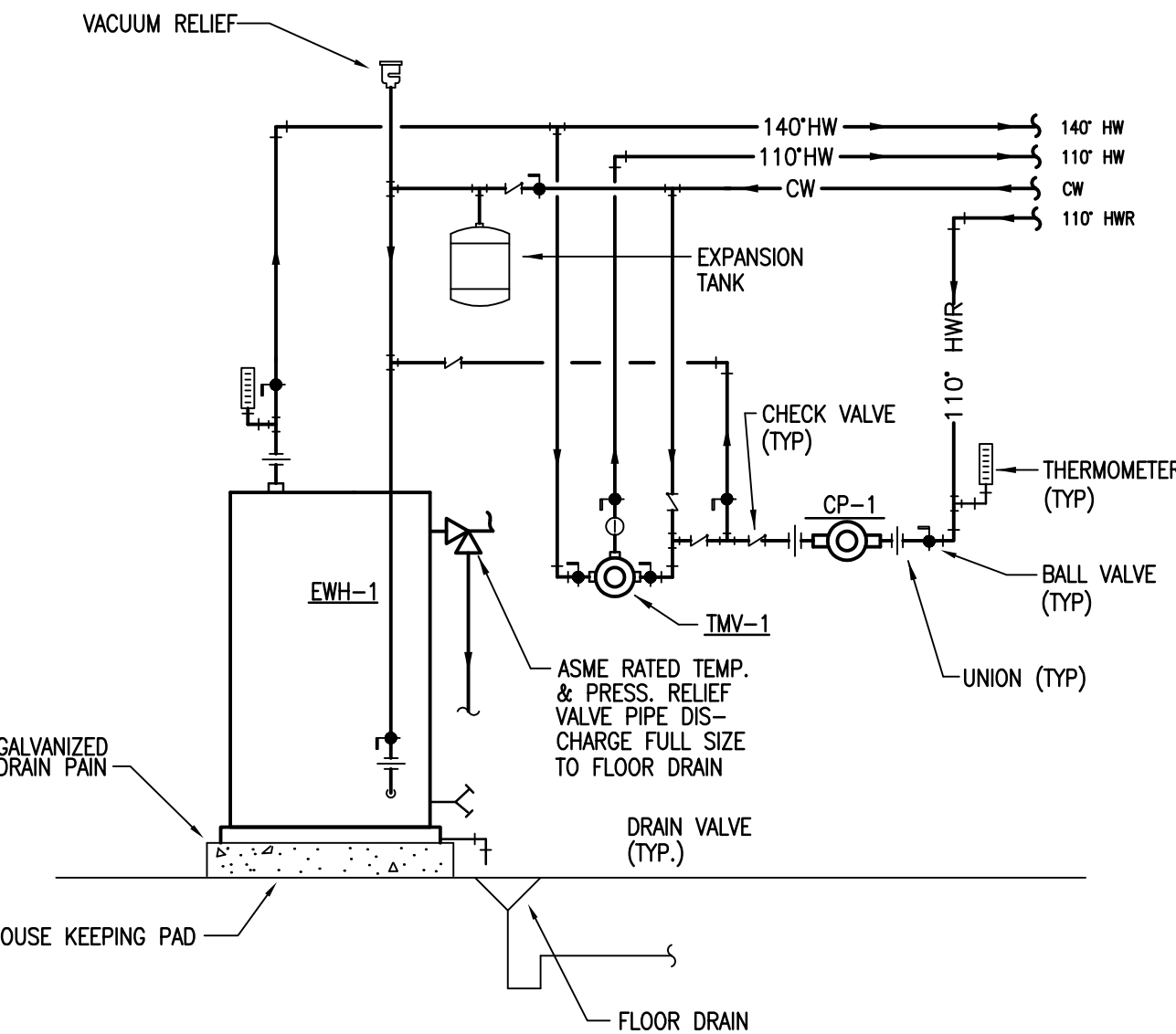


09 HANGER FOR INSULATED PIPING
SCALE: NONE PI01-04/24/06



06 GAS PRESSURE REGULATOR INSTALLATION
SCALE: NONE GA02-11/12/08

NOTE: REFERENCE DRAWINGS FOR PIPE SIZES.



03 ELECTRIC WATER HEATER PIPING
SCALE: NONE WH09-11/12/08

ELEC. WATER HEATER SCHEDULE						
ITEM	KW INPUT	GALS. PER HR. RECOVERY RATE 100' RISE	STORAGE CAPACITY	ELECTRICAL REQUIRED	STORED WATER TEMP	MANUFACTURER COMMENT
EWH-1	81	335	120 GAL	480V/3Ø 60HZ	140°F	RHEEM #ES-120A-81-GS

DOMESTIC HW EXPANSION TANK SCHED.						
ITEM NO.	DESCRIPTION	MAX. WORK PRESSURE	TANK VOL. GALLONS	MAX. ACCEPT. GALLONS	DIAMETER INCHES	MANUFACTURER AND MODEL
ET-1	HOT WATER EXPANSION TANK	150 PSI	6.4	3.2	12	AMTROL THERM-X-TROL #ST-12C-DD

NOTES: 1. ALL EXPANSION TANKS SHALL BE ASME RATED.
2. ET-1 SHALL BE PIPED IN CONJUNCTION WITH EWH-1

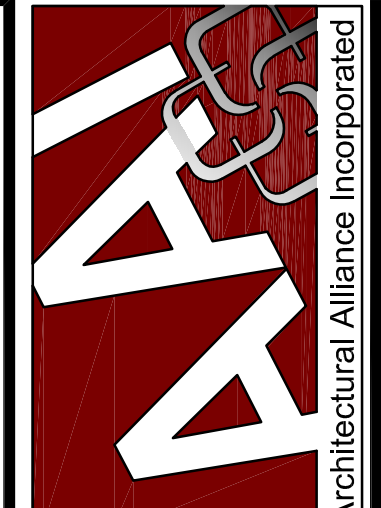
CIRCULATING PUMP SCHEDULE							
ITEM NO.	DESCRIPTION	TYPE	GPM	HEAD FEET	H.P. MIN.	VOLT/ PHASE	MANUFACTURER AND MODEL
CP-1	CIRCULATION PUMP	IN-LINE STAINLESS	3	3	1/12	120/1	GRUNDFOS ALPHA 2 15-55

NOTES: 1. CIRCULATING PUMPS TO BE STARTED IN AUTOADAPT MODE.

THERMOSTATIC MIXING VALVE SCHEDULE										
ITEM NO.	TEMP. IN DEG. F	TEMP. OUT DEG. F	MIN. FLOW GPM	DES. FLOW GPM	ASSE	THERM-OMETER	UNION CONN.	PRESS. DIFF. MAX.	MANUFACTURER/ MODEL	
TMV-1	140	120	0.5	20	1017	YES	YES	5	POWERS INTELLISTATION JR #LFS100VL	

NOTES: TMV-1 IS A DIGITAL FIELD ADJUSTABLE MIXING VALVE WITH TOUCH SCREEN DISPLAY

PLUMBING FIXTURE SCHEDULE			
TYPE: DESCRIPTION:	WC-1 (NON-T.A.S. COMPLIANT) WATER CLOSET, WALL MOUNTED, WHITE VITREOUS CHINA WITH ANTIMICROBIAL SURFACE, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" BACK SPUD AND BOLT COVERS, AMERICAN STANDARD "AFWALL MILLENNIUM" #3353.101. ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES, ANTI-MICROBIAL BUILT-IN AND STA-TITE FASTENING SYSTEM, BEHMS #21555SCT, 1.28 GALLON FLUSH CYCLE, MANUAL FLUSH WITH ANTI-MICROBIAL HANDLE CUVERRO, DIAPHRAGM TYPE, CHROME PLATED BRASS, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD, SLOAN ROYAL #111-128-CV, 4" WASTE, 2" VENT, 1" COLD WATER, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	TYPE: DESCRIPTION:	SH-1 - INDIVIDUAL SHOWER STATION - NON T.A.S. COMPLIANT SHOWER, JOB SITE BUILT AND INSTALLED PER THE ARCHITECTURAL DRAWINGS, CONFIRM CONFIGURATION AND ORIENTATION WITH ARCHITECTURAL DRAWINGS. PRESSURE BALANCE HOT AND COLD WATER SHOWER CONTROL VALVE WITH VANDAL RESISTANT LEVER HANDLE, INTEGRAL CHECK STOPS AND ADJUSTABLE TEMPERATURE LIMIT SCREW, CAST BRASS VALVE BODY. ALL EXPOSED MATERIALS SHALL BE STAINLESS STEEL OR CHROME PLATED BRASS. 1.5 GPM VANDAL RESISTANT HAND HELD SHOWER WITH 60" METAL CLAD FLEXIBLE HOSE, CHROME PLATED BRASS SUPPLY ARM, VACUUM BREAKER, MOUNTING BRACKET AND 24" METAL SLIDE BAR. SYMMONS #1-25-FSB-ADAH3-1.5-VP-X-CHK5 SAME AS FD-1. 1/2" HOT AND COLD WATER, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
SEAT:		CONTROLS:	
FLUSH VALVE:		DRAIN:	
ROUGH-IN:		ROUGH-IN:	
TYPE: DESCRIPTION:	WC-2 (T.A.S. COMPLIANT) WATER CLOSET, WALL MOUNTED, WHITE VITREOUS CHINA WITH ANTIMICROBIAL SURFACE, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" BACK SPUD AND BOLT COVERS, AMERICAN STANDARD "AFWALL MILLENNIUM" #3353.101. ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES, ANTI-MICROBIAL BUILT-IN AND STA-TITE FASTENING SYSTEM, BEHMS #21555SCT, 1.28 GALLON FLUSH CYCLE, MANUAL FLUSH WITH ANTI-MICROBIAL HANDLE CUVERRO, DIAPHRAGM TYPE, CHROME PLATED BRASS, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD, SLOAN ROYAL #111-128-CV, 4" WASTE, 2" VENT, 1" COLD WATER, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	TYPE: DESCRIPTION:	SH-2 - INDIVIDUAL SHOWER STATION - NON T.A.S. COMPLIANT SHOWER, JOB SITE BUILT AND INSTALLED PER THE ARCHITECTURAL DRAWINGS, CONFIRM CONFIGURATION AND ORIENTATION WITH ARCHITECTURAL DRAWINGS. PRESSURE BALANCE HOT AND COLD WATER SHOWER CONTROL VALVE WITH VANDAL RESISTANT LEVER HANDLE, INTEGRAL CHECK STOPS AND ADJUSTABLE TEMPERATURE LIMIT SCREW, CAST BRASS VALVE BODY. ALL EXPOSED MATERIALS SHALL BE STAINLESS STEEL OR CHROME PLATED BRASS. 1.5 GPM VANDAL RESISTANT HAND HELD SHOWER WITH 60" METAL CLAD FLEXIBLE HOSE, CHROME PLATED BRASS SUPPLY ARM, VACUUM BREAKER, MOUNTING BRACKET AND 24" METAL SLIDE BAR. SYMMONS #1-25-FSB-ADAH3-1.5-VP-X-CHK5 SAME AS FD-1. 1/2" HOT AND COLD WATER, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
SEAT:		CONTROLS:	
FLUSH VALVE:		DRAIN:	
ROUGH-IN:		ROUGH-IN:	
TYPE: DESCRIPTION:	U-(T.A.S. COMPLIANT) URINAL, WALL HUNG, WHITE VITREOUS CHINA WITH ANTIMICROBIAL SURFACE, 0.5 GALLON PER FLUSH, WASHOUT FLUSH ACTION, INTEGRAL TRAP, REMOVABLE DOME STRAINER AND TOP SPUD, AMERICAN STANDARD "WASHBROOK FLOWISE" #6515.001EC 0.5 GALLON FLUSH CYCLE, MANUAL FLUSH WITH ANTI-MICROBIAL HANDLE CUVERRO, DIAPHRAGM TYPE, CHROME PLATED BRASS, VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD, SLOAN ROYAL #111-0.5-CV, RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS, WADE #401-AM1-M36, 2" WASTE, 2" VENT, 3/4" COLD WATER, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	TYPE: DESCRIPTION:	MS-1 MOP SINK BASIN, 36" X 36" X 12" HIGH CORNER TYPE, PRECAST TERRAZZO WITH 6" DROPPED FRONT, STAINLESS STEEL THRESHOLD CAP, AND DOUBLE STAINLESS STEEL WALL GUARDS, STERN-WILLIAMS "CORLOW" SBC-1750, CHROME PLATED BRASS WALL MOUNTED FITTING WITH CHECK IN STOPS, ADJUSTABLE SUPPLY ARMS, VACUUM BREAKER SPOUT WITH PAUL HOOK AND WALL BRACE, 2-1/2" INDEXED LEVER HANDLES ON 8" CENTERS, QUARTER TURN CARTRIDGES, 3/4" MALE HOSE THREAD OUTLET. CHICAGO #445-897-SRXKCP, 3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.
FLUSH VALVE:		FAUCET:	
CARRIER:		ROUGH-IN:	
ROUGH-IN:		TYPE: DESCRIPTION:	EDF-1 (T.A.S. COMPLIANT) WALL HUNG, BARRIER FREE, SPLIT-LEVEL ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER, ALL STAINLESS STEEL, VANDAL RESISTANT BUBBLER GUARD AND PUSH BUTTON ACTIVATION, SHALL DELIVER 8 GPH OF 50 DEGREE WATER AT 90 DEGREE AMBIENT AND 80 DEGREE INLET WATER. ELKAY VRC16LWSK, 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON, MCGUIRE #8872C, 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS, MCGUIRE #216SLK, RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER, WADE 400, 2" WASTE, 2" VENT, 1/2" COLD WATER, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
TYPE: DESCRIPTION:	L-1 (T.A.S. COMPLIANT) - TEMPERED WATER LAVATORY, SOLID ONE PIECE COUNTER TOP WITH SIX INTEGRAL BOWLS, BRADLEY OMNI-DECK 3000 SERIES, LD-3100-CST L229 D24-HS-TR1-6-DR2-SW-1-WR-STD-EE-BB-FA-LSS-RSS-3-3-AS-K4"SET-NSD-BRKT-LD-TRAP, COORDINATE COLOR SELECTION WITH ARCHITECT, COORDINATE ANCHORING AND STUD REQUIREMENTS WITH MANUFACTURER, CHROME PLATED BRASS DECK MOUNTED LAVATORY METERING FAUCET, 3-1/2" SPOUT, PUSH-TILT TYPE PUSH BUTTON, VANDAL RESISTANT 0.5 GPM LAMINAR FLOW OUTLET AND 4" COVER PLATE, CHICAGO FAUCET #333-E2805-336CAB AND COVER PLATE #333-004JKCP ASSE 1070 CERTIFIED ADJUSTABLE THERMOSTATIC MIXING VALVE WITH WAX FILLED THERMOSTAT, CHECK VALVES ON SUPPLY INLETS AND MOUNTING BRACKET, BRADLEY #559-4007 AND #559-2976 BRACKET, (105" F) 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE, MCGUIRE #155A, 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE, MCGUIRE #8872, 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS, MCGUIRE #216SLK, RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS, WADE 520-M36, 2" WASTE, 2" VENT, 1/2" COLD WATER ONLY, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	TYPE: DESCRIPTION:	SK-1 (T.A.S. COMPLIANT) - HOT AND COLD WATER - CLASSROOM SINK, COUNTER MOUNTED, UNDER COUNTER MOUNTED, 18 GAUGE TYPE 304 STAINLESS STEEL, 21" X 15" X 5-1/2" DEEP, SINGLE COMPARTMENT, ELKAY #ELUHAD2115 CHROME PLATED BRASS DECK MOUNTED FITTING WITH 8" GOOSENECK SPOUT AND 4" ANTIMICROBIAL WRIST BLADE HANDLES ON 8" CENTERS, QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, VANDAL RESISTANT 1.5 GPM AERATOR, CHICAGO #201-G8AE35-KXAB-317PRJKSAM, CHROME PLATED WROUGHT BRASS 4-1/2" WIDE GRID SINK STRAINER, 1-1/4" 17 GAUGE CHROME PLATED BRASS TAILPIECE, MCGUIRE #152, 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE, MCGUIRE #8872, 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS, MCGUIRE #216SLK, 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
FAUCET:		P-TRAP:	
MIXING VALVE:		SUPPLIES:	
STRAINER:		CARRIER:	
P-TRAP:		ROUGH-IN:	
SUPPLIES:		TYPE: DESCRIPTION:	HB-1 - COLD WATER FREEZE PROOF HOSE BIBB, EXPOSED TYPE, ANIT-SIPHON, INTEGRAL BACKFLOW PREVENTION, 3/4" MALE HOSE THREAD, STAINLESS STEEL SEAT, EPDM PACKING, WALL FLANGE AND OVAL POWDER COATED ALUMINUM HANDLE AND TEE KEY, WOODFORD #MODEL 19 SERIES, 3/4" COLD WATER, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
CARRIER:		ROUGH-IN:	
ROUGH-IN:		TYPE: DESCRIPTION:	RVB-1 RECESSED VALVE BOX, 7" X 7" 20 GAUGE STEEL WITH WHITE POWDER COAT FINISH, 1/2" BRASS QUARTER TURN VALVE WITH THE THREADED CONNECTION, PROVIDE FILTER WHEN MAKING FINAL CONNECTION, GUY GRAY #MB1AB WITH AQUA PURE #AP717 FILTER, 1/2" COLD WATER, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
TYPE: DESCRIPTION:	L-2 (FACULTY T.A.S. COMPLIANT) - TEMPERED WATER LAVATORY, WALL HUNG, WHITE VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, 4" FAUCET SPREAD, AMERICAN STANDARD "LUCERNE" #0355.012, CHROME PLATED BRASS DECK MOUNTED LAVATORY FAUCET, 4-5/8" SPOUT, SINGLE LEVER, 4" CENTERSET, CERAMIC OPERATING CARTRIDGE, VANDAL RESISTANT 0.5 GPM LAMINAR FLOW OUTLET, CHICAGO #420-E2805ABCP ASSE 1070 CERTIFIED ADJUSTABLE THERMOSTATIC MIXING VALVE WITH WAX FILLED THERMOSTAT, CHECK VALVES ON SUPPLY INLETS AND MOUNTING BRACKET, BRADLEY #559-4007BY AND #559-2976 BRACKET, (105" F) 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE, MCGUIRE #155A, 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE, MCGUIRE #8872, 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS, MCGUIRE #216SLK, RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS, WADE 520-M36, 2" WASTE, 2" VENT, 1/2" COLD WATER ONLY, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	TYPE: DESCRIPTION:	FD-1 TOILET ROOMS AND GENERAL USE FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL FRAME AND GRATE (HEEL PROOF), ANCHOR FLANGE, SEEPAGE OPENINGS, CLAMPING COLLAR AND TRAP SEAL DEVICE, WADE #1100-MR6-85 PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY TO FITTED TO MATCH FLOOR DRAIN BY SIZE, MODEL AND MANUFACTURER, REFER TO FLOOR PLAN FOR SIZES, COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS AND FLOOR CONSTRUCTION.
FAUCET:		TRAP SEAL:	
MIXING VALVE:		ROUGH-IN:	
STRAINER:		TYPE: SERVICE: DESCRIPTION:	FS-1 MECHANICAL ROOMS, INDIRECT WASTE A.R.E. FLOOR SINK, CAST IRON BODY WITH 8" SQUARE FLOOR SINK WITH 6" DEEP SLUMP, BOTTOM OUTLET, A.R.E. DOME STRAINER, STAINLESS STEEL FRAME AND GRATE, ANCHOR FLANGE, CLAMPING COLLAR, AND HALF TOP GRATE, WADE 9140-85-15-26, PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY TO FITTED TO MATCH FLOOR DRAIN BY SIZE, MODEL AND MANUFACTURER, REFER TO FLOOR PLAN FOR SIZES, COORDINATE FINAL LOCATION AND INSTALLATION WITH EQUIPMENT PLACEMENT AND FLOOR CONSTRUCTION.
P-TRAP:		TRAP SEAL:	
SUPPLIES:		ROUGH-IN:	
CARRIER:		TYPE: DESCRIPTION:	ECO EXTERIOR CLEANOUT TO GRADE, CAST IRON BODY WITH ADJUSTABLE THREADED HOUSING, FLANGED FERRULE, INTEGRAL CLAMPING COLLAR, ABS PLUG AND DUCTILE IRON SCORATED ROUND COVER. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18"X18"X12" CONCRETE PAD, WADE 6000-12-81.
ROUGH-IN:		TYPE: DESCRIPTION:	FCO FLOOR CLEANOUT, CAST IRON BODY AND ADJUSTABLE THREADED HOUSING FLANGED FERRULE, INTEGRAL CLAMPING COLLAR, ABS PLUG AND SCORATED STAINLESS STEEL COVER, WADE 6000-95-81, FOR CARPETED FLOORS PROVIDE WADE 6000-85-FC.
DISREGARD FIXTURES LISTED THAT ARE NOT ON THIS JOB.			GENERAL NOTES ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER (UNLESS NOTED TO BE COLD WATER ONLY) TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON (UNLESS NOTED TO BE AN ACID WASTE FIXTURE). REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS. INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE (MCGUIRE OR TRUEBER), ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS. INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS, INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL, FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD. IN ALL RESTROOMS, POWER SUPPLIES FOR FAUCETS AND FLUSH VALVES SHALL BE LOCATED IN ACCESSIBLE CHASES DIRECTLY BEHIND THE FIXTURES.



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04-18-2022

WEST BROOK AUXILIARY FIELD HOUSE
Beaumont Independent School District
8750 Phelan Blvd
Beaumont, TX 77706

ISSUED FOR 100% REVIEW
DATE: 01/12/2022
DESIGN DEVELOPMENT
DATE: ---
BIDS & CONSTRUCTION
DATE: 04/18/2022
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

DRAWINGS SHEET TITLE
PLUMBING DETAILS AND SCHEDULES
SHEET NUMBER
P501
21021
PROJECT NUMBER

SALASOBIEN
[expect a difference]
10930 W. Sam Houston Parkway N., Suite 900
Houston, Texas 77064
281.664.1900 | Registration No. F-4111
Project No. 2021-04159-00

TECHNOLOGY LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
W	WALL MOUNTED NETWORK OUTLET DF: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF. UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
AW	WALL MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
WV	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
B	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	PROVIDE BLANK COVER REFER TO SPECIFICATIONS
DF	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
DF	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT DF: NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	
PB	24" X 24" X 24" PULL BOX	REFERENCE FLOOR PLAN FOR QUANTITY AND LOCATION	N/A	MODEL #: OLDCASTLE 222 PB-KY

NOTES:
1. #G INDICATES BACK BOX SIZE.
2. #C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE.
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCOU PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

ACCESS CONTROL LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER, NOTE #4.
CR	ACCESS CONTROL PROXIMITY CARD READER. "W" - INDICATES WALL MOUNTED READER "M" - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. "W" - INDICATES WALL MOUNTED READER "M" - INDICATES MULLION MOUNTED READER	+42" AFF	"W": 1-G, 3/4" C "M": 3/4" C	COORDINATE POWER, NOTE #4.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER, NOTE #4
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER, NOTE #4
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
REX	PIR MOTION REQUEST TO EXIT DEVICE			
DP	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR.
RFID	VEHICLE RFID TAG READER.		FIELD COORDINATE RACEWAYS AND BACK BOXES	PROVIDE NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL VEHICLE ENTRY POINT

NOTES:
1. #G INDICATES BACK BOX SIZE.
2. #C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE.
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTERCOM LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
S	CEILING MOUNTED INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
S	CEILING MOUNTED INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
S	WALL MOUNTED INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S	WALL MOUNTED EXTERIOR INTERCOM SPEAKER	+10" AFF UNO	CONTRACTOR PROVIDED	
IP	IP BASED SPEAKER. "W" TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
CB	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
C	SINGLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
C	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5
LD	LOCKDOWN BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	

NOTES:
1. #G INDICATES BACK BOX SIZE.
2. #C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE.
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
W	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	NOTE #5
C	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
C	2-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	NOTE #5
C	1-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
VRS	VIDEO RECORDING SERVER			
MU	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5

NOTES:
1. #G INDICATES BACK BOX SIZE.
2. #C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE.
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

AUDIO/VIDEO LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP	WALL MOUNTED PROJECTOR	REFERENCE FLOOR PLANS	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	NOTE #5
CMP	CEILING MOUNTED PROJECTOR	CEILING MOUNTED	N/A	NOTE #5
AV-1	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	
FSD-1	WALL MOUNTED FLAT SCREEN DISPLAY	+60" AFF TO CENTER OF DISPLAY UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	NOTE #5
FSD-2	WALL MOUNTED FLAT SCREEN DISPLAY ASSOCIATED WITH AV-1 INPUT OUTLET	+60" AFF TO CENTER OF DISPLAY UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	NOTE #5
IVD	INTERACTIVE VIDEO DISPLAY	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	NOTE #5
CP	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
S	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
CX	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
1. #G INDICATES BACK BOX SIZE.
2. #C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE.
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTRUSION LEGEND				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1" C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC, NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
MD	CEILING MOUNTED MOTION DETECTOR	CEILING		
MD	WALL MOUNTED MOTION DETECTOR LR-LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
SDC	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DDC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:
1. #G INDICATES BACK BOX SIZE.
2. #C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE.
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

ADDITIONAL SYMBOLS				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
FF	FURNITURE FEED			
ZUC	2 PORT USB CHARGING OUTLET		4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	

NOTES:
1. #G INDICATES BACK BOX SIZE.
2. #C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE.
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

FIRE ALARM	
SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL
FAP	FIRE ALARM ANNUCIATOR PANEL

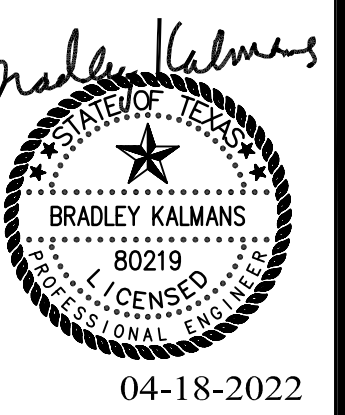
NOTES:
1. FIRE ALARM SYSTEM IS PERFORMANCE BASED PER SPECIFICATIONS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

SUBSCRIPTS AND ABBREVIATIONS	
TEXT	DESCRIPTION
WP	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
•	FIELD COORDINATE ELEVATION.
AFF	ABOVE FINISHED FLOOR
UC	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY.

INTERCOM GENERAL NOTES
1. THE FOLLOWING AREAS SHALL BE ZONED SEPARATELY:
1) INTERIOR - ZONE 1
2) EXTERIOR - ZONE 2
2. CONTRACTOR TO TAP ALL SPEAKERS WITHIN THE GYMNASIUM AND CAFETERIA AT 4 WATTS.
3. CONTRACTOR TO TAP ALL EXTERIOR SPEAKERS AT 7 WATTS.

NOTES TO CONTRACTOR
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
3. CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

RESPONSIBILITY MATRIX				
SCOPE ITEM	RESPONSIBILITY			NOTES
	OFCI	CFCI	OFCI	
COMMUNICATIONS - DIVISION 27				
CATEGORY 6/6A STRUCTURED CABLING SYSTEM		X		
FLAT PANEL DISPLAYS		X		
FLAT PANEL DISPLAY MOUNTS		X		
NETWORK EQUIPMENT				
-- MDF/IDF NETWORK EQUIPMENT			X	
-- VOIP TELEPHONES			X	
-- WIRELESS ACCESS POINTS			X	
-- INTERRUPTIBLE POWER SUPPLIES (UPS)			X	
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.			X	SEE NOTE 1.
ELECTRICAL POWER			X	SEE NOTE 1.
LIFE SAFETY AND SECURITY - DIVISION 28				
ACCESS CONTROL SYSTEM(ACS)			X	
INTRUSION DETECTION SYSTEM			X	
VIDEO SURVEILLANCE SYSTEM (VSS)				
-- VSS SERVERS			X	
-- VSS CAMERAS			X	
-- VSS PROGRAMMING			X	
-- VSS CABLING			X	SEE NOTE 2.
FIRE ALARM SMOKE DETECTION WITH VOICE EVACUATION			X	
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.			X	SEE NOTE 1.
ELECTRICAL POWER			X	SEE NOTE 1.
OFCI - OWNER FURNISHED AND OWNER INSTALLED CFCI - CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED OFCI - OWNER FURNISHED AND CONTRACTOR INSTALLED				
RESPONSIBILITY MATRIX NOTES: 1. BY DIVISION 26. 2. BY DIVISION 27. 3. BY DIVISION 11.				



WEST BROOK AUXILIARY FIELD HOUSE
Beaumont Independent School District
8750 Phelan Blvd
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DRAWINGS SHEET TITLE
TECHNOLOGY NOTES AND LEGENDS
SHEET NUMBER
T001
21021
PROJECT NUMBER

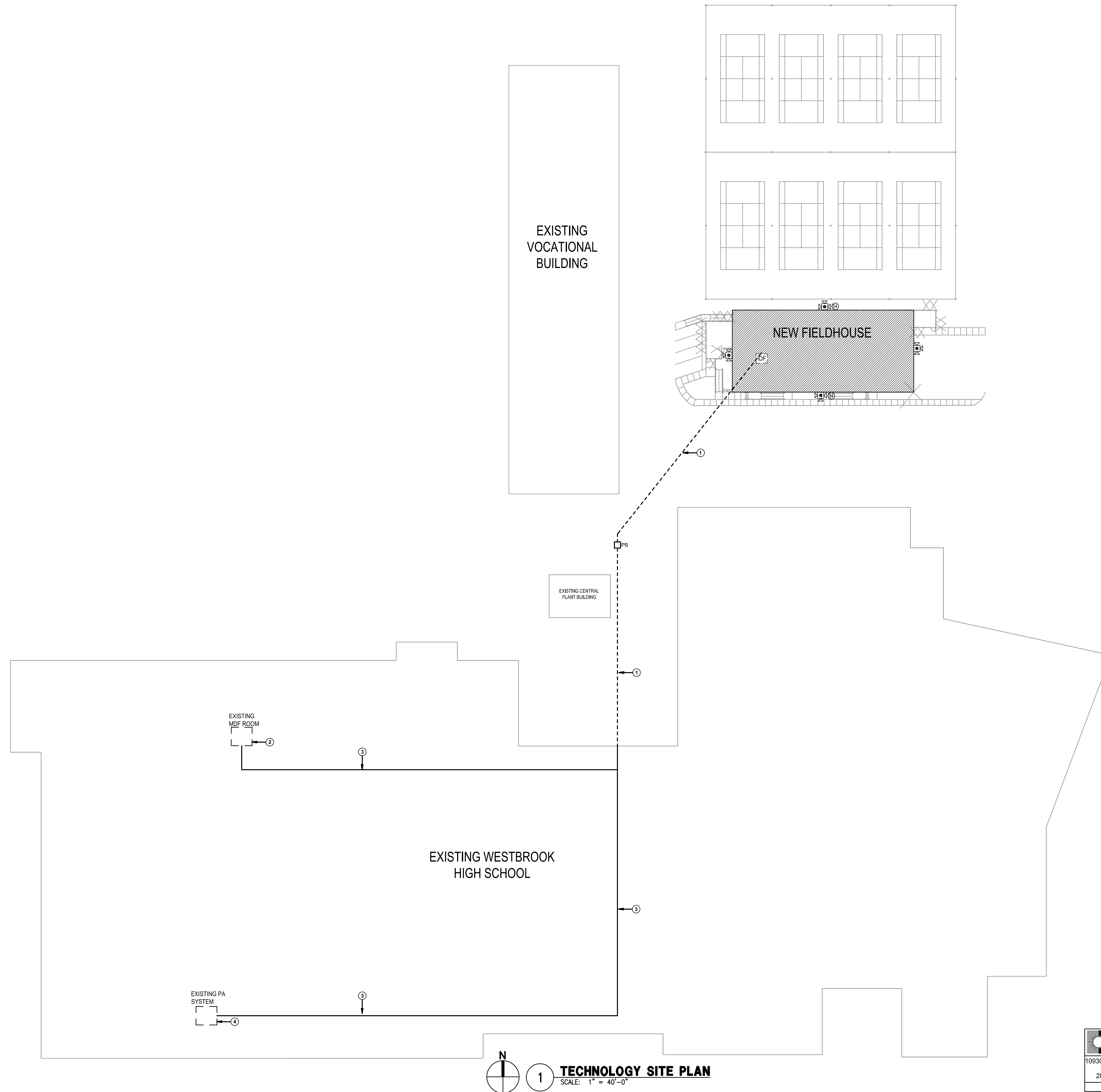


TECHNOLOGY SITE GENERAL NOTES

- A. CONTRACTOR TO SEAL BOTH ENDS OF ALL USED AND UNUSED CONDUITS
- B. CONDUITS SHALL NOT EXCEED MORE THAN 180 DEGREES IN TOTAL BEND RADIUS AND/OR 250 LINEAR FEET BETWEEN PULL POINTS. IF THESE CONDITIONS CAN NOT BE MET, A MAINTENANCE HOLE WITH 20K LID MUST BE PLACED IN THE RUN.
- C. CONTRACTOR TO PROVIDE AND INSTALL MAXCELL FABRIC INNERDUCT PACKETS IN ALL SITE CONDUITS, EXCLUDING CONDUITS RESERVED FOR THE SERVICE PROVIDER'S USE. REFERENCE MAXCELL'S CHART AND FURNISH THE MAXIMUM SIZE AND QUANTITY RECOMMENDED BY THE MANUFACTURER. CONTRACTOR TO UTILIZE PULLING SWIVELS FOR INSTALLATION OF ALL MAXCELL INNERDUCTS.
- D. CONTRACTOR SHALL PROVIDE A 20' SERVICE LOOP AT EACH PULL POINT AND A 10' SERVICE LOOP AT EACH FINAL TERMINATION END OF ALL CABLES INSTALLED.
- E. CONTRACTOR TO UTILIZE INSTALLATION SWIVELS FOR INSTALLATION OF ALL FABRIC INNERDUCT AND ALL CABLE INSTALLED INSIDE FABRIC INNERDUCT.
- F. CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUIT TO CONNECT BUILDINGS AS REQUIRED TO INSTALL FIRE ALARM CABLING. NO CABLE SHALL BE EXPOSED INDOOR OR OUTDOOR. UTILIZE EXISTING WALKWAY CANOPIES TO ROUTE BUILDING-TO-BUILDING CONNECTING CONDUITS.
- G. ALL EXTERIOR CONDUITS SHALL BE RATED FOR OUTDOOR, ABOVE GROUND INSTALLATION AND SHALL BE WATER TIGHT. REFERENCE DIVISION 26 SPECIFICATION FOR CONDUIT REQUIREMENTS
- H. CONTRACTOR SHALL SEAL ALL BUILDING PENETRATIONS AS REQUIRED TO ENSURE ALL PENETRATIONS ARE WEATHERPROOF.
- I. THE CONTRACTOR SHALL OBTAIN OWNERS PERMISSION PRIOR TO PROCEEDING WITH ANY WORK NECESSITATING CUTTING INTO OR THROUGH CONCRETE DRIVEWAYS OR SIDEWALKS.
- J. CONDUIT RUNS SHALL NOT BE INSTALLED WITH MORE THAN (2) 90-DEGREE RADIUS BENDS AND NOT EXCEED 100- FEET FOR EMT. IF THESE CONDITIONS CAN NOT BE MET, A PULL-BOX MUST BE PLACED INTO THE RUN.
- K. REFER TO ELECTRICAL (E-SERIES) DRAWINGS FOR ADDITIONAL CONDUIT QUANTITIES AND LOCATIONS.

TECHNOLOGY SITE PLAN KEYED NOTES

- 1. PROVIDE AND INSTALL THREE (3) 2" AND ONE (1) 1" CONDUITS. CONDUITS SHALL BE INSTALLED BELOW GRADE AND ROUTED BETWEEN THE NEW FIELD HOUSE AND MAIN BUILDING OF THE HIGH SCHOOL. CONDUITS SHALL STUB UP AT THE EXISTING MAIN BUILDING AND ROUTE INTO PLENUM SPACE. CONDUITS SHALL BE STRAPPED TO THE SIDE OF THE BUILDING. UTILIZE CONDUITS AS FOLLOWS:
 - A. ONE (1) 2" CONDUIT SHALL BE RESERVED FOR 12-STRAND SM FIBER OPTIC TIE CABLE.
 - B. ONE (1) 2" CONDUIT SHALL BE RESERVED FOR INTERCOM AND INTRUSION CABLES.
 - C. ONE (1) 2" CONDUIT SHALL BE RESERVED FOR PA SYSTEM CABLES.
 - D. ONE (1) 1" CONDUIT SHALL BE RESERVED FOR FIRE ALARM.
- PROVIDE AND INSTALL A ONE (1) 3-CELL MAXCELL FABRIC INNERDUCT INSIDE THE 2" CONDUITS.
- 2. EXISTING MDF LOCATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF MDF PRIOR TO BID.
- 3. CONTRACTOR SHALL ROUTE CABLES IN OVERHEAD PLENUM. USE EXISTING PATHWAY WHERE AVAILABLE. CONTRACTOR SHALL FIELD VERIFY ROUTE WITH ALL EXISTING TRADES AND UTILITIES.
- 4. EXISTING PA LOCATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING PA PRIOR TO BID.



TECHNOLOGY SITE PLAN
SCALE: 1" = 40'-0"

SALASOBRIEN
Expect a difference
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Project No. 2021-04159-00

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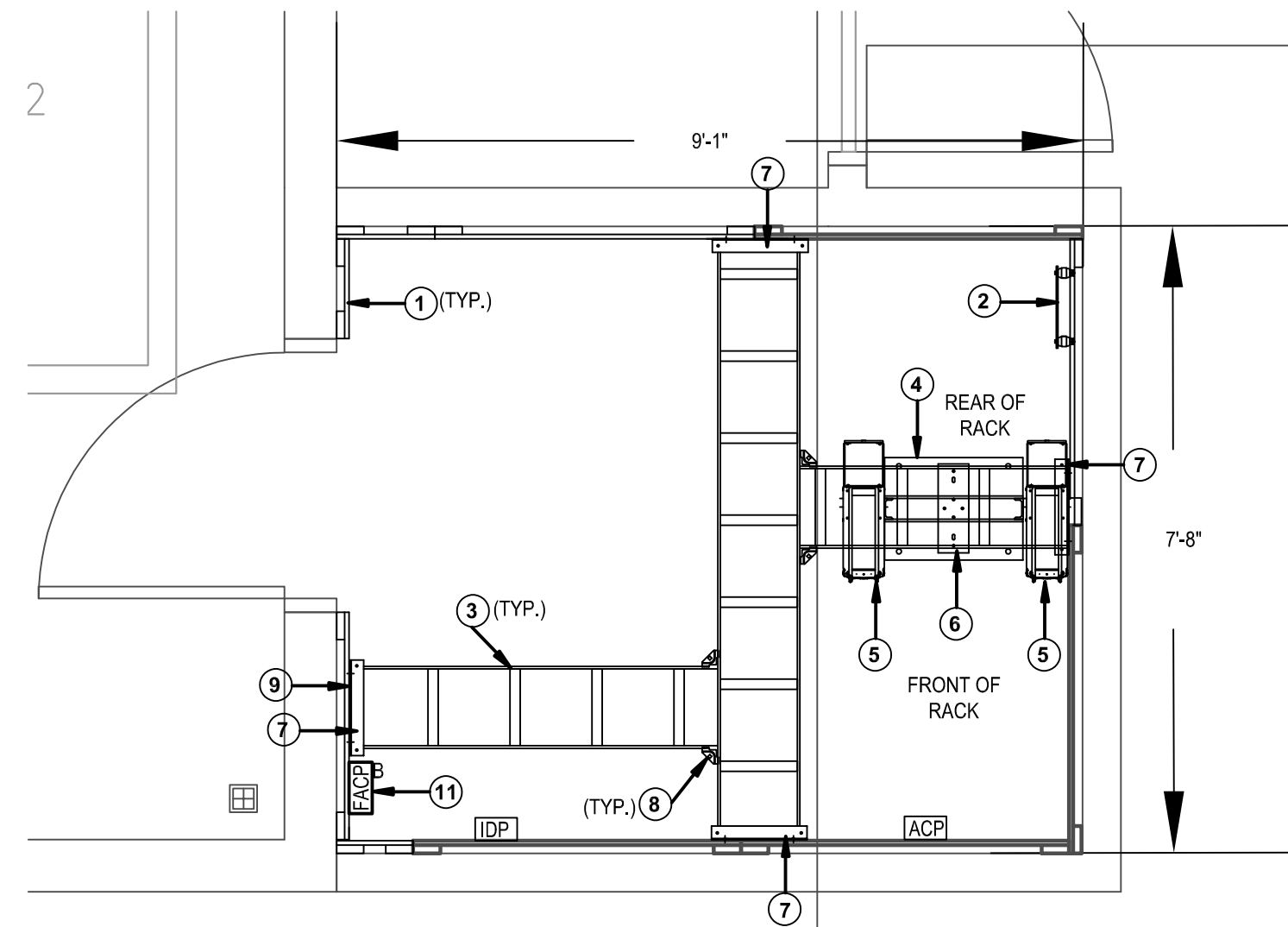
WEST BROOK AUXILIARY FIELD HOUSE
Beaumont Independent School District
8750 Phelan Blvd
Beaumont, TX 77706

ISSUED FOR	100% REVIEW	<input checked="" type="checkbox"/>
DATE:	01/12/2022	
DESIGN DEVELOPMENT		<input type="checkbox"/>
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BIDS & CONSTRUCTION		<input checked="" type="checkbox"/>
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DRAWINGS SHEET TITLE
TECHNOLOGY SITE PLAN

SHEET NUMBER
T101

21021
PROJECT NUMBER



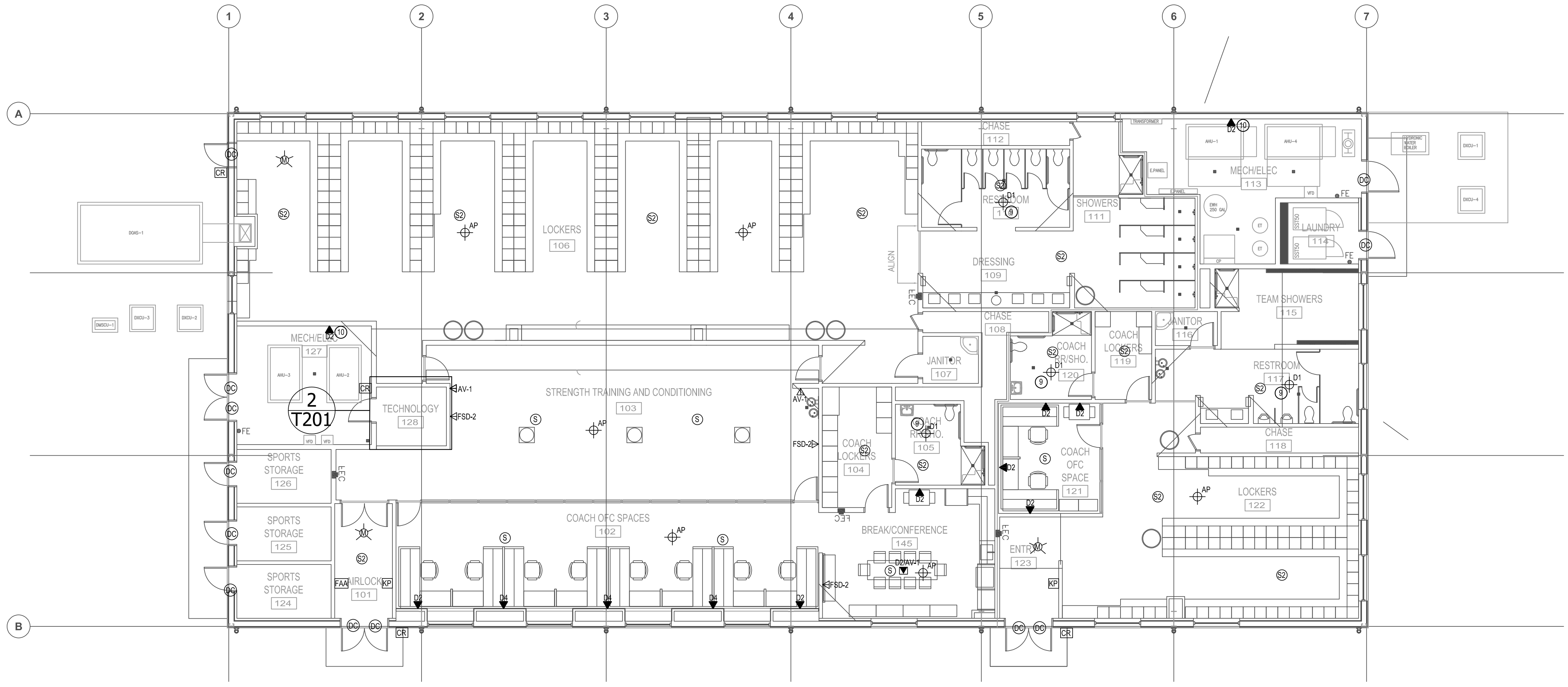
2 TECHNOLOGY ENLARGED PLAN - TECHNOLOGY 128
SCALE: 1/2" = 1'-0"

- ### TECHNOLOGY PLAN KEYED NOTES
- INDICATES THE LOCATION OF A 8' TALL, 3/4" FIRE RATED PLYWOOD CONTRACTOR TO PROVIDE AND INSTALL PLYWOOD AND ALL REQUIRED MOUNTING HARDWARE. PLYWOOD SHALL BE PAINTED WHITE WITH FIRE RATED PAINT. TYPICAL FOR ALL SHOWN ON DRAWING.
 - INDICATES THE LOCATION OF A NEW WALL MOUNTED TELECOMMUNICATION GROUND BUS BAR (TGBB). CABLING CONTRACTOR TO PROVIDE BUS BAR AND ALL REQUIRED MATERIAL TO MOUNT AT THE LOCATION SHOWN. TGBB TO BE MOUNTED AT +93" A.F.F.
 - PROVIDE AND INSTALL A 12" WIDE, UNIVERSAL LADDER TRAY AND ALL REQUIRED MOUNTING HARDWARE. LADDER TRAY SHALL BE BLACK IN COLOR. TYPICAL FOR ALL SHOWN ON ENTIRE PROJECT.
 - PROVIDE AND INSTALL ONE (1) 2-POST, FLOOR MOUNTED, 7" RELAY RACK (BLACK IN COLOR). PROVIDE BONDING WASHERS, BOLTS, AND NUTS AT ALL MECHANICALLY CONNECTED LOCATIONS OF THE RACK TO ENSURE THAT ALL PIECES OF THE RACK ARE COMPLETELY BONDED. SCRAPING PAINT FROM RACKS TO MAKE A BOND WILL NOT BE ACCEPTED. ALL RACK MOUNTED COMPONENTS SHALL BE MOUNTED WITH BONDING SCREWS AND THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (50) ADDITIONAL BONDING SCREWS FOR THE INSTALLATION OF OWNER EQUIPMENT. NO DAISY CHAINING GROUNDS FROM RACK TO CABLE TRAY OR TO OTHER RACKS WILL BE ACCEPTED. ALL GROUNDS SHALL BE HOME RUN TO THE TELECOMMUNICATIONS GROUND BUS BAR (TGBB). TYPICAL FOR ALL SHOWN ON THE ENTIRE PROJECT.
 - PROVIDE AND INSTALL ONE (1) 7'X6", FRONT AND REAR MANAGED, VERTICAL CABLE MANAGER (BLACK IN COLOR). CABLE MANAGERS SHALL BE INSTALLED ON EACH END OF THE RACK SYSTEMS AND BETWEEN EACH RACK. CABLE MANAGERS SHALL HAVE A SINGLE, SOLID, FULL HEIGHT HINGED DOOR IN THE FRONT AND WIDE SPACED CABLE RINGS WITH SPIN-OPEN LATCHES IN THE REAR. TYPICAL FOR ALL SHOWN IN THE ENTIRE PROJECT.
 - PROVIDE AND INSTALL RACK-TO-RUNWAY MOUNTING PLATE FOR ALL LOCATIONS WHEN ASSOCIATED WITH A 2-POST OR 4-POST RACK. MOUNTING PLATE SHALL BE BLACK IN COLOR. PROVIDE (1) 6" LADDER TRAY ELEVATION KIT (BLACK IN COLOR) AT EACH RACK-TO-RUNWAY MOUNTING PLATE LOCATION. TYPICAL FOR ALL SHOWN ON THE ENTIRE PROJECT.
 - INDICATES THE LOCATION OF A 12" LADDER TRAY WALL ANGLE SUPPORT BRACKET, BLACK IN COLOR. CONTRACTOR TO PROVIDE AND INSTALL WALL ANGLE SUPPORT BRACKET AND ALL REQUIRED MOUNTING HARDWARE AT EACH LOCATION WHERE LADDER TRAY TERMINATES INTO A VERTICAL WALL SECTION. TYPICAL FOR ALL SHOWN.
 - PROVIDE AND INSTALL A LADDER JUNCTION SPICE KIT, BLACK IN COLOR. PROVIDE ONE (1) KIT AT EACH LADDER TRAY JUNCTION SPICE LOCATION ON THE ENTIRE PROJECT.
 - INDICATED DATA DROP TO BE RESERVED FOR VAPE DETECTOR CONNECTION.
 - COORDINATE BAS DATA OUTLET LOCATION WITH MECHANICAL / ELECTRICAL CONTRACTORS.
 - LOCATION FOR FIRE ACCESS CONTROL BOOSTER PANEL IF REQUIRED.

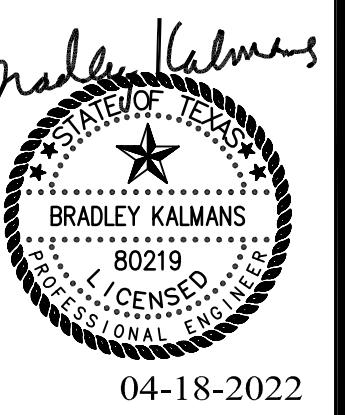
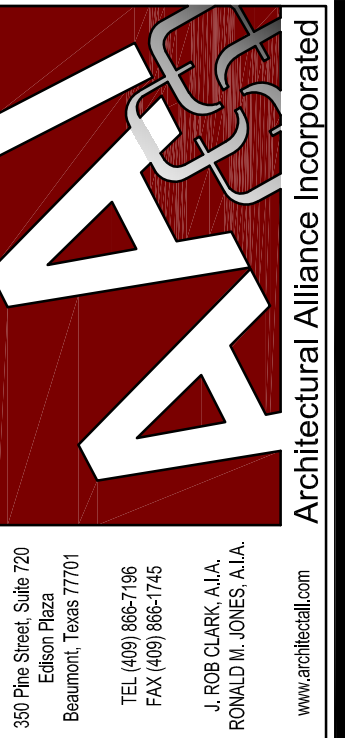
- ### TECH ENLARGED PLAN GEN NOTES
- ALL RACK LOCATIONS SHALL BE COORDINATED WITH THE PROJECTS TECHNOLOGY CONSULTANT AND OWNER PRIOR TO INSTALLATION. NO RACKS AND/OR ASSOCIATED CABLE TRAY SYSTEM SHALL BE PERMANENTLY INSTALLED PRIOR TO DOCUMENTED ACCEPTANCE.
 - PATCH PANEL QUANTITY SHALL BE DETERMINED BY STATION CABLE DROP COUNTS SHOWN ON TECHNOLOGY PLANS AND THE ASSOCIATED PROJECT MATRIX. ENSURE PATCH PANEL QUANTITY IS SUFFICIENT TO SUPPORT THE NUMBER OF PORTS REQUIRED BY TECHNOLOGY PLANS PLUS AN ADDITIONAL 25% FOR FUTURE GROWTH.
 - CONTRACTOR SHALL NOT EXCEED MORE THAN A 50% RACK FILL RATIO ON ANY RACK.
 - REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS
 - ALL RACKS, LADDER TRAYS, LIGHTNING PROTECTION ENCLOSURES AND ANY OTHER DEVICES, PART OF THE STRUCTURED CABLING SYSTEM, SHALL BE GROUNDED TO A GROUND BUS BAR LOCATED IN THE TELECOMMUNICATIONS ROOM WITH A #6AWG GROUND CABLE. DAISY CHAINING WILL NOT BE ACCEPTED. ALL ITEMS SHALL HAVE A DEDICATED GROUND CABLE TO BUS BAR. GROUND CABLE SHALL BE GREEN IN COLOR.
 - REFER TO ELECTRICAL (E-SERIES) DRAWINGS FOR ADDITIONAL CONDUIT QUANTITIES, SIZES AND LOCATIONS.

A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

PROVIDE RADIO COVERAGE SURVEY AND ENGINEERED EMERGENCY RESPONDER RADIO COVERAGE (EERC) PLANS/SYSTEM AS REQUIRED BY AUTHORITY HAVING JURISDICTION TO MAINTAIN RADIO COVERAGE INSIDE THE BUILDING PER INTERNATIONAL FIRE CODE SECTIONS-10 AND OTHER APPLICABLE LOCAL CODES. THE SYSTEM SHALL BE MONITORED BY FIRE ALARM SYSTEM. CONTRACTOR TO PROVIDE ACEWAYS, CABLING, BRANCH CIRCUITS, DEVICES ... ETC. AND TO MAKE ALL FINAL CONNECTIONS AS REQUIRED.



1 TECHNOLOGY FLOOR PLAN
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DRAWINGS SHEET TITLE
TECHNOLOGY FLOOR PLAN



SHEET NUMBER
T201
PROJECT NUMBER
21021